

## **DATA PACKAGE**

### **GC SEMI-VOLATILES**

**PROJECT NAME : NJ SOIL PT**

**CHEMTECH CONSULTING GROUP**

**284 Sheffield St,**

**Mountainside, NJ - 07092**

**Phone No: 908-789-8900**

**ORDER ID : P4495**

**ATTENTION : QA Officer**



**Laboratory Certification ID # 20012**



|                                              |     |
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## Cover Page

**Order ID :** P4495

**Project ID :** NJ Soil PT

**Client :** Chemtech Consulting Group

### Lab Sample Number

P4495-01  
P4495-02  
P4495-03  
P4495-04  
P4495-05  
P4495-06  
P4495-07  
P4495-08  
P4495-09  
P4495-10  
P4495-11  
P4495-12  
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P4495-15  
P4495-16  
P4495-17  
P4495-18  
P4495-19  
P4495-20  
P4495-21  
P4495-22  
P4495-23  
P4495-24  
P4495-25

### Client Sample Number

PT-AN-SOIL  
PT-CORR-SOIL  
PT-CN-SOIL  
PT-CN-SOIL  
PT-FP-SOIL  
PT-CR6-SOIL  
PT-NUT-SOIL  
PT-NUT-SOIL  
PT-OGR-SOIL  
PT-MET-SOIL  
PT-BNA-SOIL  
PT-TRIAZINE-SOIL  
PT-PAH-SOIL  
PT-DIES-SOIL  
PT-GAS-SOIL  
PT-NJEPH-SOIL  
PT-HERB-SOIL  
PT-PCB-SOIL  
PT-PCBO-SOIL  
PT-PEST-SOIL  
PT-CHLR-SOIL  
PT-TXP-SOIL  
PT-VOA-SOIL  
PT-SOL-SOIL  
PT-NO2-SOIL

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: 12/3/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



## **CASE NARRATIVE**

### **Chemtech Consulting Group**

**Project Name: NJ Soil PT**

**Project # N/A**

**Chemtech Project # P4495**

**Test Name: Diesel Range Organics**

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

25 Solid samples were received on 10/23/2024.

#### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Diesel Range Organics, EPH, Flash Point, Gasoline Range Organics, Herbicide Group1, Hexavalent Chromium, Mercury, Metals Group3, Metals ICP-Group1, Nitrite, Oil and Grease, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, Phosphorus, Total, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, TKN, TOC, TS and VOCMS Group1. This data package contains results for Diesel Range Organics.

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

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 Diesel Range Organics was based on method 8015D and extraction was done based on method 3541.

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The MS {P4518-01MS} with File ID: FF014766.D recoveries met the requirements for all compounds except for DRO[-4977.6%] Due to matrix interference.

The MSD {P4518-01MSD} with File ID: FF014767.D recoveries met the acceptable requirements except for DRO[-5575.2%] Due to matrix interference.

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

Samples PT-DIES-SOIL was diluted due to bad matrix ,

The above sample original run reported as screening data in miscellaneous data.



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Phone: 908 789 8900 Fax: 908 789 8922

**E. Additional Comments:**

The soil samples results are based on a dry weight basis.

**F. Manual Integration Comments:**

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

---

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

Signature\_\_\_\_\_

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>U</b>  | 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.                                                                                                                                                                                                                                                                                      |
| <b>ND</b> | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>J</b>  | Indicates an estimated value. This flag is used: <ul style="list-style-type: none"> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(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.</li> </ul> |
| <b>B</b>  | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>E</b>  | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>D</b>  | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>P</b>  | 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”.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>N</b>  | 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.                                                                                                                                                                                                                                                                       |
| <b>A</b>  | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Q</b>  | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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

CHEMTECH PROJECT NUMBER: P4495

MATRIX: Solid

METHOD: 8015D/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. |    |    | ✓   |
|    | The Initial Calibration met the requirements .<br>The Continuous Calibration met the requirements .                                                                                        |    |    |     |
| 4. | Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                             |    | ✓  |     |
| 5. | Surrogate Recoveries Meet Criteria                                                                                                                                                         |    |    | ✓   |
|    | If not met, list those compounds and their recoveries which fall outside the acceptable ranges.                                                                                            |    |    |     |
| 6. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria                                                                                                                               |    | ✓  |     |
|    | If not met, list those compounds and their recoveries which fall outside the acceptable range.                                                                                             |    |    |     |
|    | The MS {P4518-01MS} with File ID: FF014766.D recoveries met the requirements for all compounds except for DRO[-4977.6%] Due to matrix interference.                                        |    |    |     |
|    | The MSD {P4518-01MSD} with File ID: FF014767.D recoveries met the acceptable requirements except for DRO[-5575.2%] Due to matrix interference.                                             |    |    |     |
|    | The Blank Spike met requirements for all samples .<br>The RPD met criteria .                                                                                                               |    |    |     |
| 7. | Retention Time Shift Meet Criteria (if applicable)                                                                                                                                         |    |    | ✓   |
|    | Comments:                                                                                                                                                                                  |    |    |     |
| 8. | Extraction Holding Time Met                                                                                                                                                                |    |    | ✓   |
|    | If not met, list number of days exceeded for each sample:                                                                                                                                  |    |    |     |



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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:**

Samples PT-DIES-SOIL was diluted due to bad matrix ,The above sample original run reported as screening data in miscellaneous data.

The soil samples results are based on a dry weight basis.

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

\_\_\_\_\_  
Date

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: P4495

Completed

For thorough review, the report must have the following:

#### GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

#### COVER PAGE:

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

✓

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

✓

#### CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/03/2024

## LAB CHRONICLE

|                 |                           |                   |                        |
|-----------------|---------------------------|-------------------|------------------------|
| <b>OrderID:</b> | P4495                     | <b>OrderDate:</b> | 10/23/2024 10:29:00 AM |
| <b>Client:</b>  | Chemtech Consulting Group | <b>Project:</b>   | NJ Soil PT             |
| <b>Contact:</b> | QA Officer                | <b>Location:</b>  | QA Office, VOA Lab     |

| LabID                   | ClientID                | Matrix       | Test                    | Method                  | Sample Date     | Prep Date                        | Anal Date                        | Received        |
|-------------------------|-------------------------|--------------|-------------------------|-------------------------|-----------------|----------------------------------|----------------------------------|-----------------|
| <b>P4495-14</b>         | <b>PT-DIES-SOIL</b>     | <b>SOIL</b>  | Diesel Range Organics   | 8015D                   | <b>10/21/24</b> | 10/24/24                         | 10/25/24                         | <b>10/23/24</b> |
| <b>P4495-15</b>         | <b>PT-GAS-SOIL</b>      | <b>SOIL</b>  | Gasoline Range Organics | 8015D                   | <b>10/21/24</b> |                                  | 10/30/24                         | <b>10/23/24</b> |
| <b>P4495-16</b>         | <b>PT-NJEPH-SOIL</b>    | <b>Solid</b> | EPH<br>EPH<br>EPH       | NJEPH<br>NJEPH<br>NJEPH | <b>10/21/24</b> | 10/25/24<br>10/25/24<br>10/25/24 | 10/28/24<br>10/29/24<br>10/28/24 | <b>10/23/24</b> |
| <b>P4495-16DL<br/>2</b> | <b>PT-NJEPH-SOILDL2</b> | <b>Solid</b> | EPH                     | NJEPH                   | <b>10/21/24</b> | 10/25/24                         | 10/28/24                         | <b>10/23/24</b> |
| <b>P4495-17</b>         | <b>PT-HERB-SOIL</b>     | <b>SOIL</b>  | Herbicide Group1        | 8151A                   | <b>10/21/24</b> | 11/14/24                         | 11/25/24                         | <b>10/23/24</b> |
| <b>P4495-17RE</b>       | <b>PT-HERB-SOILRE</b>   | <b>SOIL</b>  | Herbicide Group1        | 8151A                   | <b>10/21/24</b> | 11/14/24                         | 11/25/24                         | <b>10/23/24</b> |
| <b>P4495-18</b>         | <b>PT-PCB-SOIL</b>      | <b>SOIL</b>  | PCB                     | 8082A                   | <b>10/21/24</b> | 10/25/24                         | 10/25/24                         | <b>10/23/24</b> |
| <b>P4495-18DL</b>       | <b>PT-PCB-SOIL DL</b>   | <b>SOIL</b>  | PCB                     | 8082A                   | <b>10/21/24</b> | 10/25/24                         | 10/25/24                         | <b>10/23/24</b> |
| <b>P4495-19</b>         | <b>PT-PCBO-SOIL</b>     | <b>SOIL</b>  | PCB                     | 8082A                   | <b>10/21/24</b> | 10/25/24                         | 10/28/24                         | <b>10/23/24</b> |
| <b>P4495-19DL</b>       | <b>PT-PCBO-SOILDL</b>   | <b>SOIL</b>  |                         |                         | <b>10/21/24</b> |                                  |                                  | <b>10/23/24</b> |

### LAB CHRONICLE

|                               |                        |             |                  |       |                 |          |          |                 |
|-------------------------------|------------------------|-------------|------------------|-------|-----------------|----------|----------|-----------------|
|                               |                        |             | PCB              | 8082A |                 | 10/25/24 | 10/28/24 |                 |
| <b>P4495-20</b>               | <b>PT-PEST-SOIL</b>    | <b>SOIL</b> |                  |       | <b>10/21/24</b> |          |          | <b>10/23/24</b> |
|                               |                        |             | PESTICIDE Group1 | 8081B |                 | 10/25/24 | 11/04/24 |                 |
| <b>P4495-20DL</b>             | <b>PT-PEST-SOILDL</b>  | <b>SOIL</b> |                  |       | <b>10/21/24</b> |          |          | <b>10/23/24</b> |
|                               |                        |             | PESTICIDE Group1 | 8081B |                 | 10/25/24 | 11/04/24 |                 |
| <b>P4495-20DL</b><br><b>2</b> | <b>PT-PEST-SOILDL2</b> | <b>SOIL</b> |                  |       | <b>10/21/24</b> |          |          | <b>10/23/24</b> |
|                               |                        |             | PESTICIDE Group1 | 8081B |                 | 10/25/24 | 11/04/24 |                 |
| <b>P4495-21</b>               | <b>PT-CHLR-SOIL</b>    | <b>SOIL</b> |                  |       | <b>10/21/24</b> |          |          | <b>10/23/24</b> |
|                               |                        |             | PESTICIDE Group2 | 8081B |                 | 10/25/24 | 10/31/24 |                 |
| <b>P4495-22</b>               | <b>PT-TXP-SOIL</b>     | <b>SOIL</b> |                  |       | <b>10/21/24</b> |          |          | <b>10/23/24</b> |
|                               |                        |             | PESTICIDE Group3 | 8081B |                 | 10/25/24 | 10/31/24 |                 |
| <b>P4495-22DL</b>             | <b>PT-TXP-SOILDL</b>   | <b>SOIL</b> |                  |       | <b>10/21/24</b> |          |          | <b>10/23/24</b> |
|                               |                        |             | PESTICIDE Group3 | 8081B |                 | 10/25/24 | 10/31/24 |                 |



# QC SUMMARY

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**SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY**

Lab Name: Chemtech Client: Chemtech Consulting Group  
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

| EPA<br>SAMPLE NO. | S1<br>TETRACOSANE-d50 | S2 | S3 | S4 | TOT<br>OUT |
|-------------------|-----------------------|----|----|----|------------|
| PIBLK-FF014756.D  | 82                    |    |    |    | 0          |
| PIBLK-FF014763.D  | 85                    |    |    |    | 0          |
| PIBLK-FF014772.D  | 80                    |    |    |    | 0          |
| PIBLK-FF014775.D  | 99                    |    |    |    | 0          |
| PIBLK-FF014786.D  | 83                    |    |    |    | 0          |
| PT-DIES-SOIL      | 100                   |    |    |    | 0          |
| EX-5-TPH-1MS      | 58                    |    |    |    | 0          |
| EX-5-TPH-1MSD     | 53                    |    |    |    | 0          |
| PB164381BL        | 77                    |    |    |    | 0          |
| PB164381BS        | 80                    |    |    |    | 0          |

**QC LIMITS**

TETRACOSANE-d50

For Water : 29-130  
For Soil : 37-130

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits  
D Surrogate Diluted Out

**SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY**

**Lab Name:** Chemtech **Client:** Chemtech Consulting Group  
**Lab Code:** CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495  
**Client SampleID :** EX-5-TPH-1MS **Datafile:** FF014766.D

| COMPOUND | SPIKE<br>ADDED<br>ug/kg | SAMPLE<br>CONCENTRATION<br>ug/kg | MS/MSD<br>CONCENTRATION<br>ug/kg | % REC  | Qual | QC LIMITS |
|----------|-------------------------|----------------------------------|----------------------------------|--------|------|-----------|
| DRO      | 8478                    | 1390000                          | 968000                           | -4978% | *    | 68-131    |

**SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY**

**Lab Name:** Chemtech **Client:** Chemtech Consulting Group  
**Lab Code:** CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495  
**Client SampleID :** EX-5-TPH-1MSD **Datafile:** FF014767.D

| COMPOUND | SPIKE<br>ADDED<br>ug/kg | SAMPLE<br>CONCENTRATION<br>ug/kg | MS/MSD<br>CONCENTRATION<br>ug/kg | % REC  | Qual | QC LIMITS |
|----------|-------------------------|----------------------------------|----------------------------------|--------|------|-----------|
| DRO      | 8484                    | 1390000                          | 917000                           | -5575% | *    | 68-131    |

**MS/MSD % Recovery RPD : 11.3**

**SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI**

**Lab Name:** Chemtech **Client:** Chemtech Consulting Group  
**Lab Code:** CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495  
**Matrix Spike - EPA Sample No :** PB164381BS **Datafile:** FF014760.D

| COMPOUND | SPIKE<br>ADDED<br>ug/kg | CONCENTRATION<br>ug/kg | LCS/LCSD<br>CONCENTRATION<br>ug/kg | % REC | QC LIMITS |
|----------|-------------------------|------------------------|------------------------------------|-------|-----------|
| DRO      | 6664                    | 0                      | 6639                               | 100   | 68-131    |

4B  
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164381BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab File ID: FF014759.D

Lab Sample ID: PB164381BL

Instrument ID: FF

Date Extracted: 10/24/2024

Matrix: (soil/water) Soil

Date Analyzed: 10/24/24

Level: (low/med) low

Time Analyzed: 14:33

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| PB164381BS        | PB164381BS       | FF014760.D     | 10/24/24         |
| EX-5-TPH-1MS      | P4518-01MS       | FF014766.D     | 10/24/24         |
| EX-5-TPH-1MSD     | P4518-01MSD      | FF014767.D     | 10/24/24         |
| PT-DIES-SOIL      | P4495-14         | FF014778.D     | 10/25/24         |

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



# SAMPLE DATA

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## Report of Analysis

|                    |                           |                    |                       |
|--------------------|---------------------------|--------------------|-----------------------|
| Client:            | Chemtech Consulting Group | Date Collected:    | 10/21/24              |
| Project:           | NJ Soil PT                | Date Received:     | 10/23/24              |
| Client Sample ID:  | PT-DIES-SOIL              | SDG No.:           | P4495                 |
| Lab Sample ID:     | P4495-14                  | Matrix:            | SOIL                  |
| Analytical Method: | 8015D DRO                 | % Solid:           | 100                   |
| Sample Wt/Vol:     | 20.12 Units: g            | Decanted:          |                       |
| Soil Aliquot Vol:  | uL                        | Final Vol:         | 1 mL                  |
| Extraction Type:   |                           | Test:              | Diesel Range Organics |
| GPC Factor :       | PH :                      | Injection Volume : |                       |
| Prep Method :      | SW3541                    |                    |                       |

|                   |           |                |               |               |
|-------------------|-----------|----------------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed | Prep Batch ID |
| FF014778.D        | 50        | 10/24/24 11:10 | 10/25/24 8:27 | PB164381      |

| CAS Number        | Parameter       | Conc.   | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|-----------------|---------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                 |         |           |          |            |                   |
| DRO               | DRO             | 1300000 |           | 13800    | 124000     | ug/kg             |
| <b>SURROGATES</b> |                 |         |           |          |            |                   |
| 16416-32-3        | Tetracosane-d50 | 0.40    |           | 37 - 130 | 100%       | SPK: 20           |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014778.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 08:27  
Operator : YP\AJ  
Sample : P4495-14 50X  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
PT-DIES-SOIL

Integration File: autoint1.e  
Quant Time: Oct 26 04:02:33 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units  |
|-------------------------------|--------|----------|-------------|
| -----                         |        |          |             |
| System Monitoring Compounds   |        |          |             |
| 9) S TETRACOSANE-d50 (SURR... | 15.009 | 53140    | 0.404 ug/ml |
| Target Compounds              |        |          |             |
| -----                         |        |          |             |

(f)=RT Delta > 1/2 Window

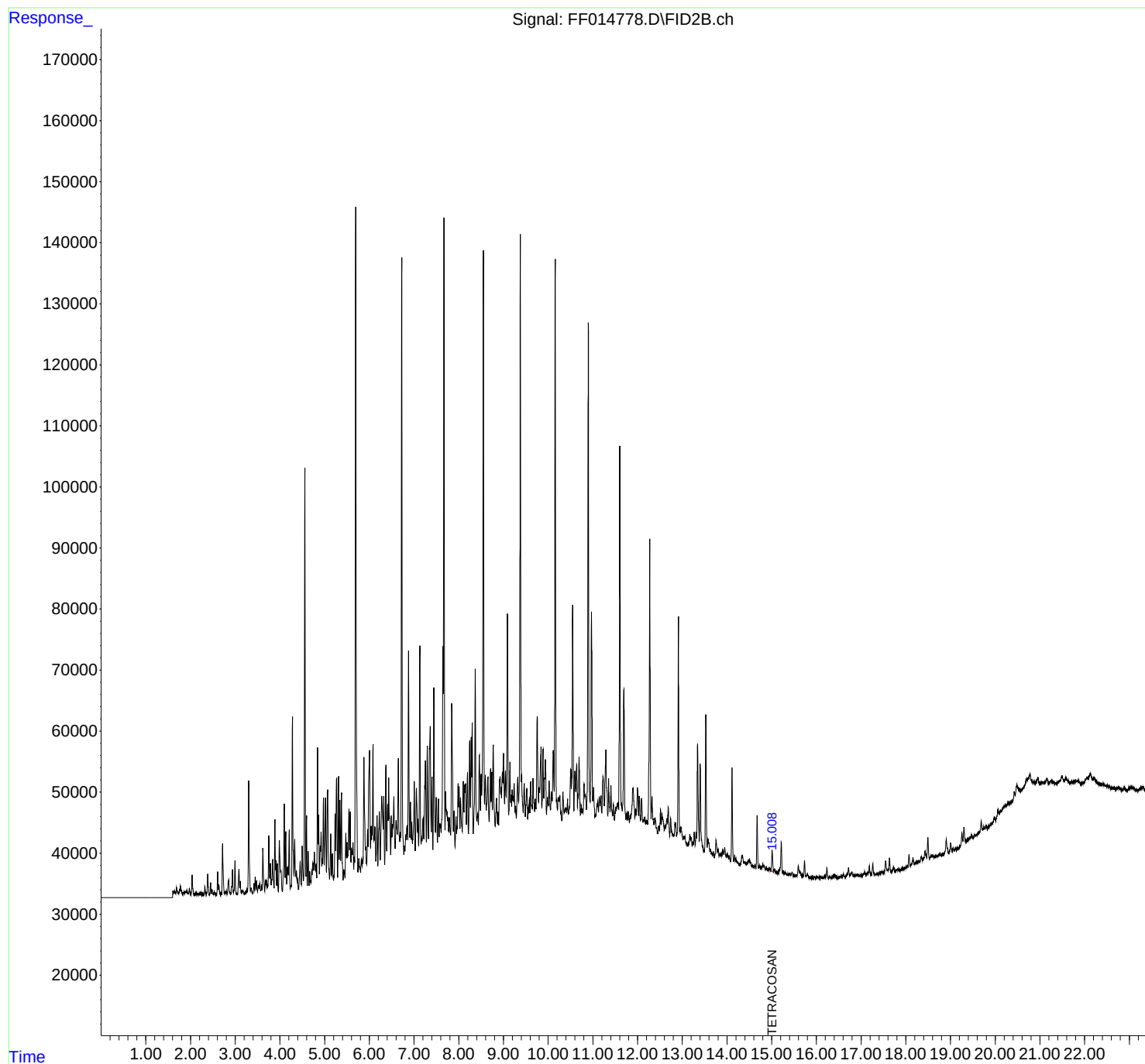
(m)=manual int.

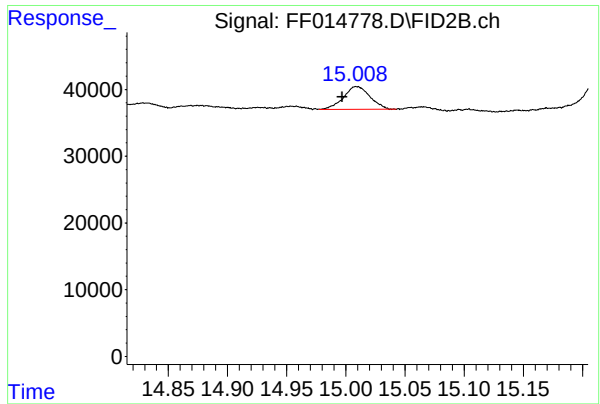
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014778.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 08:27  
Operator : YP\AJ  
Sample : P4495-14 50X  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
PT-DIES-SOIL

Integration File: autoint1.e  
Quant Time: Oct 26 04:02:33 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.009 min  
Delta R.T.: 0.012 min  
Response: 53140  
Conc: 0.40 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PT-DIES-SOIL

1  
2  
3  
4  
5  
6  
7  
8  
9  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014778.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 08:27  
Sample : P4495-14 50X  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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         | 4.454       | 4.410        | 4.480      | BV       | 4548           | 72870        | 4.69%          | 0.095%        |
| 2         | 4.499       | 4.480        | 4.526      | VV       | 6994           | 96843        | 6.24%          | 0.126%        |
| 3         | 4.558       | 4.526        | 4.580      | VV       | 68796          | 718217       | 46.25%         | 0.934%        |
| 4         | 4.595       | 4.580        | 4.615      | VV       | 11951          | 116812       | 7.52%          | 0.152%        |
| 5         | 4.633       | 4.615        | 4.652      | VV       | 6106           | 71099        | 4.58%          | 0.092%        |
| 6         | 4.667       | 4.652        | 4.683      | VV       | 2828           | 31389        | 2.02%          | 0.041%        |
| 7         | 4.688       | 4.683        | 4.695      | VV       | 1161           | 7861         | 0.51%          | 0.010%        |
| 8         | 4.712       | 4.695        | 4.721      | VV       | 2937           | 31445        | 2.03%          | 0.041%        |
| 9         | 4.739       | 4.721        | 4.755      | VV       | 4227           | 72087        | 4.64%          | 0.094%        |
| 10        | 4.772       | 4.755        | 4.797      | VV       | 6024           | 105014       | 6.76%          | 0.137%        |
| 11        | 4.811       | 4.797        | 4.825      | VV       | 4006           | 52787        | 3.40%          | 0.069%        |
| 12        | 4.843       | 4.825        | 4.857      | VV       | 23078          | 244516       | 15.75%         | 0.318%        |
| 13        | 4.867       | 4.857        | 4.884      | VV       | 12081          | 125322       | 8.07%          | 0.163%        |
| 14        | 4.902       | 4.884        | 4.911      | VV       | 6911           | 87477        | 5.63%          | 0.114%        |
| 15        | 4.922       | 4.911        | 4.937      | VV       | 9217           | 106594       | 6.86%          | 0.139%        |
| 16        | 4.946       | 4.937        | 4.954      | VV       | 4555           | 43912        | 2.83%          | 0.057%        |
| 17        | 4.974       | 4.954        | 4.990      | VV       | 14900          | 185469       | 11.94%         | 0.241%        |
| 18        | 5.020       | 4.990        | 5.040      | VV       | 14797          | 261677       | 16.85%         | 0.340%        |
| 19        | 5.069       | 5.040        | 5.111      | VV       | 16156          | 315935       | 20.35%         | 0.411%        |
| 20        | 5.138       | 5.111        | 5.158      | VV       | 8928           | 128132       | 8.25%          | 0.167%        |
| 21        | 5.173       | 5.158        | 5.200      | VV       | 5656           | 85844        | 5.53%          | 0.112%        |
| 22        | 5.235       | 5.200        | 5.248      | VV       | 12177          | 162179       | 10.44%         | 0.211%        |
| 23        | 5.267       | 5.248        | 5.292      | VV       | 18068          | 286822       | 18.47%         | 0.373%        |
| 24        | 5.311       | 5.292        | 5.327      | VV       | 18300          | 210857       | 13.58%         | 0.274%        |
| 25        | 5.343       | 5.327        | 5.359      | VV       | 14411          | 170359       | 10.97%         | 0.222%        |
| 26        | 5.377       | 5.359        | 5.415      | VV       | 15596          | 232487       | 14.97%         | 0.302%        |
| 27        | 5.432       | 5.415        | 5.454      | VV       | 3013           | 56023        | 3.61%          | 0.073%        |
| 28        | 5.476       | 5.454        | 5.489      | VV       | 9001           | 120492       | 7.76%          | 0.157%        |
| 29        | 5.501       | 5.489        | 5.514      | VV       | 7410           | 90597        | 5.83%          | 0.118%        |
| 30        | 5.545       | 5.514        | 5.560      | VV       | 12880          | 234297       | 15.09%         | 0.305%        |
| 31        | 5.573       | 5.560        | 5.589      | VV       | 12480          | 147756       | 9.52%          | 0.192%        |
| 32        | 5.601       | 5.589        | 5.623      | VV       | 6518           | 118582       | 7.64%          | 0.154%        |
| 33        | 5.636       | 5.623        | 5.652      | VV       | 7436           | 99299        | 6.39%          | 0.129%        |
| 34        | 5.665       | 5.652        | 5.673      | VV       | 5062           | 53264        | 3.43%          | 0.069%        |
| 35        | 5.695       | 5.673        | 5.747      | VV       | 111377         | 1479836      | 95.30%         | 1.925%        |
| 36        | 5.768       | 5.747        | 5.782      | VV       | 4770           | 81831        | 5.27%          | 0.106%        |

| rteres |       |       |       |    |        |         |        |        |
|--------|-------|-------|-------|----|--------|---------|--------|--------|
| 37     | 5.787 | 5.782 | 5.806 | VV | 3462   | 44318   | 2.85%  | 0.058% |
| 38     | 5.825 | 5.806 | 5.839 | VV | 4704   | 77379   | 4.98%  | 0.101% |
| 39     | 5.849 | 5.839 | 5.859 | VV | 4635   | 50222   | 3.23%  | 0.065% |
| 40     | 5.880 | 5.859 | 5.913 | VV | 21339  | 385584  | 24.83% | 0.502% |
| 41     | 5.919 | 5.913 | 5.939 | VV | 6713   | 82150   | 5.29%  | 0.107% |
| 42     | 5.962 | 5.939 | 5.971 | VV | 9512   | 127288  | 8.20%  | 0.166% |
| 43     | 6.005 | 5.971 | 6.030 | VV | 22458  | 517997  | 33.36% | 0.674% |
| 44     | 6.042 | 6.030 | 6.051 | VV | 10056  | 109297  | 7.04%  | 0.142% |
| 45     | 6.060 | 6.051 | 6.067 | VV | 9624   | 85727   | 5.52%  | 0.112% |
| 46     | 6.082 | 6.067 | 6.098 | VV | 23468  | 275663  | 17.75% | 0.359% |
| 47     | 6.106 | 6.098 | 6.114 | VV | 8465   | 73953   | 4.76%  | 0.096% |
| 48     | 6.127 | 6.114 | 6.147 | VV | 9895   | 153597  | 9.89%  | 0.200% |
| 49     | 6.174 | 6.147 | 6.192 | VV | 11765  | 196410  | 12.65% | 0.255% |
| 50     | 6.226 | 6.192 | 6.246 | VV | 12430  | 270337  | 17.41% | 0.352% |
| 51     | 6.279 | 6.246 | 6.311 | VV | 14924  | 424282  | 27.32% | 0.552% |
| 52     | 6.325 | 6.311 | 6.344 | VV | 14858  | 201905  | 13.00% | 0.263% |
| 53     | 6.371 | 6.344 | 6.390 | VV | 20077  | 297251  | 19.14% | 0.387% |
| 54     | 6.411 | 6.390 | 6.422 | VV | 13604  | 211126  | 13.60% | 0.275% |
| 55     | 6.435 | 6.422 | 6.479 | VV | 17880  | 399849  | 25.75% | 0.520% |
| 56     | 6.495 | 6.479 | 6.508 | VV | 11677  | 153075  | 9.86%  | 0.199% |
| 57     | 6.522 | 6.508 | 6.529 | VV | 10308  | 120138  | 7.74%  | 0.156% |
| 58     | 6.550 | 6.529 | 6.580 | VV | 14790  | 313870  | 20.21% | 0.408% |
| 59     | 6.599 | 6.580 | 6.626 | VV | 10897  | 252892  | 16.29% | 0.329% |
| 60     | 6.650 | 6.626 | 6.682 | VV | 21104  | 415129  | 26.73% | 0.540% |
| 61     | 6.695 | 6.682 | 6.704 | VV | 8955   | 108128  | 6.96%  | 0.141% |
| 62     | 6.725 | 6.704 | 6.774 | VV | 103038 | 1300203 | 83.73% | 1.691% |
| 63     | 6.787 | 6.774 | 6.798 | VV | 6658   | 88831   | 5.72%  | 0.116% |
| 64     | 6.815 | 6.798 | 6.826 | VV | 8491   | 127062  | 8.18%  | 0.165% |
| 65     | 6.846 | 6.826 | 6.859 | VV | 10002  | 180888  | 11.65% | 0.235% |
| 66     | 6.878 | 6.859 | 6.905 | VV | 38515  | 543541  | 35.00% | 0.707% |
| 67     | 6.921 | 6.905 | 6.940 | VV | 13804  | 232147  | 14.95% | 0.302% |
| 68     | 6.951 | 6.940 | 6.965 | VV | 10614  | 132314  | 8.52%  | 0.172% |
| 69     | 7.007 | 6.965 | 7.028 | VV | 17247  | 390824  | 25.17% | 0.508% |
| 70     | 7.054 | 7.028 | 7.081 | VV | 16094  | 361299  | 23.27% | 0.470% |
| 71     | 7.090 | 7.081 | 7.104 | VV | 11072  | 128308  | 8.26%  | 0.167% |
| 72     | 7.130 | 7.104 | 7.160 | VV | 39400  | 588920  | 37.93% | 0.766% |
| 73     | 7.202 | 7.160 | 7.219 | VV | 11152  | 309919  | 19.96% | 0.403% |
| 74     | 7.256 | 7.219 | 7.277 | VV | 20567  | 490508  | 31.59% | 0.638% |
| 75     | 7.298 | 7.277 | 7.326 | VV | 22951  | 394960  | 25.44% | 0.514% |
| 76     | 7.363 | 7.326 | 7.387 | VV | 26091  | 647962  | 41.73% | 0.843% |
| 77     | 7.403 | 7.387 | 7.423 | VV | 17921  | 262814  | 16.93% | 0.342% |
| 78     | 7.445 | 7.423 | 7.480 | VV | 32557  | 570105  | 36.71% | 0.742% |
| 79     | 7.498 | 7.480 | 7.526 | VV | 14457  | 307707  | 19.82% | 0.400% |
| 80     | 7.547 | 7.526 | 7.563 | VV | 14208  | 235595  | 15.17% | 0.306% |
| 81     | 7.577 | 7.563 | 7.586 | VV | 10194  | 130791  | 8.42%  | 0.170% |
| 82     | 7.591 | 7.586 | 7.606 | VV | 9969   | 118733  | 7.65%  | 0.154% |
| 83     | 7.647 | 7.606 | 7.655 | VV | 39207  | 571791  | 36.82% | 0.744% |
| 84     | 7.671 | 7.655 | 7.695 | VV | 109401 | 1293859 | 83.32% | 1.683% |
| 85     | 7.708 | 7.695 | 7.732 | VV | 15462  | 287571  | 18.52% | 0.374% |
| 86     | 7.739 | 7.732 | 7.751 | VV | 12262  | 130318  | 8.39%  | 0.170% |
| 87     | 7.759 | 7.751 | 7.774 | VV | 11302  | 145659  | 9.38%  | 0.189% |
| 88     | 7.793 | 7.774 | 7.820 | VV | 11197  | 267234  | 17.21% | 0.348% |
| 89     | 7.845 | 7.820 | 7.881 | VV | 29754  | 648047  | 41.73% | 0.843% |

| rteres |       |       |       |    |        |         |         |        |
|--------|-------|-------|-------|----|--------|---------|---------|--------|
| 90     | 7.898 | 7.881 | 7.918 | VV | 12295  | 215728  | 13.89%  | 0.281% |
| 91     | 7.941 | 7.918 | 7.954 | VV | 11317  | 197013  | 12.69%  | 0.256% |
| 92     | 7.987 | 7.954 | 7.998 | VV | 16770  | 312053  | 20.10%  | 0.406% |
| 93     | 8.010 | 7.998 | 8.027 | VV | 16219  | 245116  | 15.79%  | 0.319% |
| 94     | 8.042 | 8.027 | 8.079 | VV | 14343  | 350707  | 22.59%  | 0.456% |
| 95     | 8.102 | 8.079 | 8.118 | VV | 17080  | 312275  | 20.11%  | 0.406% |
| 96     | 8.134 | 8.118 | 8.143 | VV | 16474  | 222110  | 14.30%  | 0.289% |
| 97     | 8.153 | 8.143 | 8.171 | VV | 16781  | 238644  | 15.37%  | 0.310% |
| 98     | 8.197 | 8.171 | 8.219 | VV | 18530  | 382462  | 24.63%  | 0.498% |
| 99     | 8.245 | 8.219 | 8.263 | VV | 23762  | 422803  | 27.23%  | 0.550% |
| 100    | 8.280 | 8.263 | 8.291 | VV | 24284  | 314834  | 20.28%  | 0.410% |
| 101    | 8.302 | 8.291 | 8.326 | VV | 26644  | 366323  | 23.59%  | 0.477% |
| 102    | 8.371 | 8.326 | 8.404 | VV | 35402  | 787501  | 50.71%  | 1.024% |
| 103    | 8.425 | 8.404 | 8.441 | VV | 11740  | 243005  | 15.65%  | 0.316% |
| 104    | 8.462 | 8.441 | 8.486 | VV | 21335  | 434674  | 27.99%  | 0.565% |
| 105    | 8.501 | 8.486 | 8.516 | VV | 18194  | 281714  | 18.14%  | 0.366% |
| 106    | 8.552 | 8.516 | 8.578 | VV | 103769 | 1536278 | 98.94%  | 1.998% |
| 107    | 8.598 | 8.578 | 8.617 | VV | 18053  | 358318  | 23.08%  | 0.466% |
| 108    | 8.654 | 8.617 | 8.681 | VV | 17651  | 542999  | 34.97%  | 0.706% |
| 109    | 8.713 | 8.681 | 8.726 | VV | 18988  | 394496  | 25.41%  | 0.513% |
| 110    | 8.738 | 8.726 | 8.754 | VV | 18443  | 257371  | 16.57%  | 0.335% |
| 111    | 8.773 | 8.754 | 8.815 | VV | 22959  | 562051  | 36.20%  | 0.731% |
| 112    | 8.846 | 8.815 | 8.868 | VV | 14222  | 380582  | 24.51%  | 0.495% |
| 113    | 8.881 | 8.868 | 8.894 | VV | 11986  | 172961  | 11.14%  | 0.225% |
| 114    | 8.914 | 8.894 | 8.919 | VV | 17320  | 213683  | 13.76%  | 0.278% |
| 115    | 8.926 | 8.919 | 8.939 | VV | 17754  | 200652  | 12.92%  | 0.261% |
| 116    | 8.948 | 8.939 | 8.958 | VV | 16016  | 174205  | 11.22%  | 0.227% |
| 117    | 8.976 | 8.958 | 8.987 | VV | 18304  | 289869  | 18.67%  | 0.377% |
| 118    | 9.002 | 8.987 | 9.026 | VV | 21508  | 427299  | 27.52%  | 0.556% |
| 119    | 9.046 | 9.026 | 9.062 | VV | 18579  | 342473  | 22.06%  | 0.446% |
| 120    | 9.092 | 9.062 | 9.117 | VV | 44449  | 817562  | 52.65%  | 1.064% |
| 121    | 9.146 | 9.117 | 9.164 | VV | 20099  | 425265  | 27.39%  | 0.553% |
| 122    | 9.173 | 9.164 | 9.185 | VV | 14760  | 175204  | 11.28%  | 0.228% |
| 123    | 9.198 | 9.185 | 9.211 | VV | 15493  | 220634  | 14.21%  | 0.287% |
| 124    | 9.217 | 9.211 | 9.226 | VV | 14179  | 129369  | 8.33%   | 0.168% |
| 125    | 9.241 | 9.226 | 9.260 | VV | 16542  | 300455  | 19.35%  | 0.391% |
| 126    | 9.273 | 9.260 | 9.290 | VV | 12831  | 217957  | 14.04%  | 0.284% |
| 127    | 9.322 | 9.290 | 9.339 | VV | 17540  | 428129  | 27.57%  | 0.557% |
| 128    | 9.379 | 9.339 | 9.402 | VV | 106394 | 1552803 | 100.00% | 2.020% |
| 129    | 9.408 | 9.402 | 9.446 | VV | 17780  | 377351  | 24.30%  | 0.491% |
| 130    | 9.466 | 9.446 | 9.490 | VV | 16482  | 375022  | 24.15%  | 0.488% |
| 131    | 9.524 | 9.490 | 9.544 | VV | 15711  | 428878  | 27.62%  | 0.558% |
| 132    | 9.558 | 9.544 | 9.568 | VV | 12576  | 171449  | 11.04%  | 0.223% |
| 133    | 9.581 | 9.568 | 9.593 | VV | 14000  | 195888  | 12.62%  | 0.255% |
| 134    | 9.610 | 9.593 | 9.631 | VV | 16794  | 324848  | 20.92%  | 0.423% |
| 135    | 9.636 | 9.631 | 9.644 | VV | 12965  | 99681   | 6.42%   | 0.130% |
| 136    | 9.663 | 9.644 | 9.697 | VV | 17324  | 448858  | 28.91%  | 0.584% |
| 137    | 9.711 | 9.697 | 9.731 | VV | 13976  | 264170  | 17.01%  | 0.344% |
| 138    | 9.756 | 9.731 | 9.786 | VV | 27378  | 638150  | 41.10%  | 0.830% |
| 139    | 9.799 | 9.786 | 9.809 | VV | 15813  | 205060  | 13.21%  | 0.267% |
| 140    | 9.840 | 9.809 | 9.861 | VV | 22495  | 561951  | 36.19%  | 0.731% |
| 141    | 9.886 | 9.861 | 9.905 | VV | 22090  | 448475  | 28.88%  | 0.583% |

| rteres |        |        |        |    |        |         |        |        |
|--------|--------|--------|--------|----|--------|---------|--------|--------|
| 142    | 9.920  | 9.905  | 9.924  | VV | 17347  | 183395  | 11.81% | 0.239% |
| 143    | 9.940  | 9.924  | 9.964  | VV | 20368  | 399937  | 25.76% | 0.520% |
| 144    | 9.986  | 9.964  | 10.001 | VV | 14139  | 295441  | 19.03% | 0.384% |
| 145    | 10.025 | 10.001 | 10.055 | VV | 16931  | 449173  | 28.93% | 0.584% |
| 146    | 10.073 | 10.055 | 10.091 | VV | 15033  | 300740  | 19.37% | 0.391% |
| 147    | 10.115 | 10.091 | 10.136 | VV | 21796  | 490734  | 31.60% | 0.638% |
| 148    | 10.159 | 10.136 | 10.209 | VV | 102178 | 1549976 | 99.82% | 2.016% |
| 149    | 10.237 | 10.209 | 10.249 | VV | 14024  | 325040  | 20.93% | 0.423% |
| 150    | 10.261 | 10.249 | 10.306 | VV | 14347  | 421290  | 27.13% | 0.548% |
| 151    | 10.333 | 10.306 | 10.361 | VV | 14962  | 414170  | 26.67% | 0.539% |
| 152    | 10.373 | 10.361 | 10.382 | VV | 12233  | 154951  | 9.98%  | 0.202% |
| 153    | 10.393 | 10.382 | 10.418 | VV | 12443  | 259033  | 16.68% | 0.337% |
| 154    | 10.436 | 10.418 | 10.456 | VV | 13848  | 283151  | 18.23% | 0.368% |
| 155    | 10.506 | 10.456 | 10.521 | VV | 18718  | 564875  | 36.38% | 0.735% |
| 156    | 10.549 | 10.521 | 10.576 | VV | 45527  | 887040  | 57.13% | 1.154% |
| 157    | 10.599 | 10.576 | 10.619 | VV | 18376  | 404608  | 26.06% | 0.526% |
| 158    | 10.638 | 10.619 | 10.657 | VV | 19477  | 369408  | 23.79% | 0.481% |
| 159    | 10.694 | 10.657 | 10.727 | VV | 20703  | 636755  | 41.01% | 0.828% |
| 160    | 10.740 | 10.727 | 10.761 | VV | 12855  | 244631  | 15.75% | 0.318% |
| 161    | 10.768 | 10.761 | 10.779 | VV | 12099  | 132786  | 8.55%  | 0.173% |
| 162    | 10.803 | 10.779 | 10.821 | VV | 16266  | 355898  | 22.92% | 0.463% |
| 163    | 10.829 | 10.821 | 10.859 | VV | 14540  | 317147  | 20.42% | 0.413% |
| 164    | 10.899 | 10.859 | 10.937 | VV | 91764  | 1533534 | 98.76% | 1.995% |
| 165    | 10.971 | 10.937 | 10.999 | VV | 44426  | 932471  | 60.05% | 1.213% |
| 166    | 11.015 | 10.999 | 11.049 | VV | 15604  | 406922  | 26.21% | 0.529% |
| 167    | 11.056 | 11.049 | 11.059 | VV | 11008  | 63996   | 4.12%  | 0.083% |
| 168    | 11.108 | 11.059 | 11.126 | VV | 13350  | 488343  | 31.45% | 0.635% |
| 169    | 11.147 | 11.126 | 11.160 | VV | 14165  | 271764  | 17.50% | 0.354% |
| 170    | 11.182 | 11.160 | 11.199 | VV | 14280  | 300665  | 19.36% | 0.391% |
| 171    | 11.226 | 11.199 | 11.258 | VV | 17425  | 532370  | 34.28% | 0.693% |
| 172    | 11.291 | 11.258 | 11.336 | VV | 21797  | 752241  | 48.44% | 0.979% |
| 173    | 11.353 | 11.336 | 11.387 | VV | 16955  | 416968  | 26.85% | 0.542% |
| 174    | 11.406 | 11.387 | 11.444 | VV | 15861  | 439058  | 28.28% | 0.571% |
| 175    | 11.459 | 11.444 | 11.482 | VV | 12771  | 265417  | 17.09% | 0.345% |
| 176    | 11.513 | 11.482 | 11.524 | VV | 12406  | 288819  | 18.60% | 0.376% |
| 177    | 11.560 | 11.524 | 11.572 | VV | 12993  | 360221  | 23.20% | 0.469% |
| 178    | 11.602 | 11.572 | 11.659 | VV | 71521  | 1338655 | 86.21% | 1.741% |
| 179    | 11.694 | 11.659 | 11.737 | VV | 31473  | 813116  | 52.36% | 1.058% |
| 180    | 11.760 | 11.737 | 11.777 | VV | 11353  | 255734  | 16.47% | 0.333% |
| 181    | 11.796 | 11.777 | 11.817 | VV | 11479  | 259547  | 16.71% | 0.338% |
| 182    | 11.833 | 11.817 | 11.839 | VV | 10974  | 140129  | 9.02%  | 0.182% |
| 183    | 11.848 | 11.839 | 11.852 | VV | 10911  | 86120   | 5.55%  | 0.112% |
| 184    | 11.894 | 11.852 | 11.940 | VV | 15378  | 676117  | 43.54% | 0.880% |
| 185    | 11.957 | 11.940 | 11.969 | VV | 11964  | 201868  | 13.00% | 0.263% |
| 186    | 11.998 | 11.969 | 12.021 | VV | 15467  | 409049  | 26.34% | 0.532% |
| 187    | 12.036 | 12.021 | 12.063 | VV | 14058  | 306097  | 19.71% | 0.398% |
| 188    | 12.088 | 12.063 | 12.120 | VV | 13664  | 396730  | 25.55% | 0.516% |
| 189    | 12.127 | 12.120 | 12.134 | VV | 10167  | 82671   | 5.32%  | 0.108% |
| 190    | 12.154 | 12.134 | 12.184 | VV | 10592  | 303392  | 19.54% | 0.395% |
| 191    | 12.206 | 12.184 | 12.225 | VV | 10072  | 237995  | 15.33% | 0.310% |
| 192    | 12.272 | 12.225 | 12.301 | VV | 56176  | 1106086 | 71.23% | 1.439% |
| 193    | 12.322 | 12.301 | 12.368 | VV | 13989  | 450789  | 29.03% | 0.586% |
| 194    | 12.393 | 12.368 | 12.421 | VV | 10427  | 307252  | 19.79% | 0.400% |

|     |        |        |        |    | rteres |        |        |        |
|-----|--------|--------|--------|----|--------|--------|--------|--------|
| 195 | 12.425 | 12.421 | 12.453 | VV | 8815   | 163312 | 10.52% | 0.212% |
| 196 | 12.476 | 12.453 | 12.493 | VV | 9056   | 205089 | 13.21% | 0.267% |
| 197 | 12.513 | 12.493 | 12.527 | VV | 11851  | 209344 | 13.48% | 0.272% |
| 198 | 12.546 | 12.527 | 12.596 | VV | 11180  | 410810 | 26.46% | 0.534% |
| 199 | 12.611 | 12.596 | 12.621 | VV | 9195   | 131202 | 8.45%  | 0.171% |
| 200 | 12.653 | 12.621 | 12.669 | VV | 10366  | 276174 | 17.79% | 0.359% |
| 201 | 12.685 | 12.669 | 12.717 | VV | 12191  | 286909 | 18.48% | 0.373% |
| 202 | 12.739 | 12.717 | 12.777 | VV | 10389  | 311524 | 20.06% | 0.405% |
| 203 | 12.785 | 12.777 | 12.803 | VV | 7836   | 120444 | 7.76%  | 0.157% |
| 204 | 12.850 | 12.803 | 12.871 | VV | 9596   | 344612 | 22.19% | 0.448% |
| 205 | 12.913 | 12.871 | 12.938 | VV | 43423  | 731017 | 47.08% | 0.951% |
| 206 | 12.945 | 12.938 | 12.956 | VV | 8594   | 89304  | 5.75%  | 0.116% |
| 207 | 12.972 | 12.956 | 13.017 | VV | 8815   | 293847 | 18.92% | 0.382% |
| 208 | 13.031 | 13.017 | 13.047 | VV | 7308   | 126229 | 8.13%  | 0.164% |
| 209 | 13.060 | 13.047 | 13.082 | VV | 7349   | 143550 | 9.24%  | 0.187% |
| 210 | 13.089 | 13.082 | 13.112 | VV | 6304   | 109189 | 7.03%  | 0.142% |
| 211 | 13.131 | 13.112 | 13.146 | VV | 6271   | 125254 | 8.07%  | 0.163% |
| 212 | 13.166 | 13.146 | 13.184 | VV | 7634   | 158758 | 10.22% | 0.207% |
| 213 | 13.195 | 13.184 | 13.219 | VV | 7117   | 141154 | 9.09%  | 0.184% |
| 214 | 13.236 | 13.219 | 13.246 | VV | 6396   | 99234  | 6.39%  | 0.129% |
| 215 | 13.266 | 13.246 | 13.288 | VV | 7995   | 171893 | 11.07% | 0.224% |
| 216 | 13.306 | 13.288 | 13.318 | VV | 7872   | 125452 | 8.08%  | 0.163% |
| 217 | 13.342 | 13.318 | 13.378 | VV | 22536  | 461153 | 29.70% | 0.600% |
| 218 | 13.399 | 13.378 | 13.454 | VV | 19152  | 445796 | 28.71% | 0.580% |
| 219 | 13.458 | 13.454 | 13.486 | VV | 5620   | 99903  | 6.43%  | 0.130% |
| 220 | 13.525 | 13.486 | 13.557 | VV | 27249  | 502987 | 32.39% | 0.654% |
| 221 | 13.577 | 13.557 | 13.617 | VV | 6807   | 212267 | 13.67% | 0.276% |
| 222 | 13.628 | 13.617 | 13.651 | VV | 5138   | 99150  | 6.39%  | 0.129% |
| 223 | 13.660 | 13.651 | 13.677 | VV | 4599   | 69254  | 4.46%  | 0.090% |
| 224 | 13.692 | 13.677 | 13.714 | VV | 4695   | 96267  | 6.20%  | 0.125% |
| 225 | 13.754 | 13.714 | 13.782 | VV | 6654   | 208839 | 13.45% | 0.272% |
| 226 | 13.802 | 13.782 | 13.822 | VV | 5215   | 115274 | 7.42%  | 0.150% |
| 227 | 13.834 | 13.822 | 13.853 | VV | 4467   | 79164  | 5.10%  | 0.103% |
| 228 | 13.869 | 13.853 | 13.886 | VV | 4512   | 83530  | 5.38%  | 0.109% |
| 229 | 13.906 | 13.886 | 13.931 | VV | 5052   | 124101 | 7.99%  | 0.161% |
| 230 | 13.948 | 13.931 | 13.985 | VV | 5359   | 149739 | 9.64%  | 0.195% |
| 231 | 14.005 | 13.985 | 14.017 | VV | 4415   | 78310  | 5.04%  | 0.102% |
| 232 | 14.020 | 14.017 | 14.044 | VV | 4168   | 63499  | 4.09%  | 0.083% |
| 233 | 14.058 | 14.044 | 14.081 | VV | 3883   | 78537  | 5.06%  | 0.102% |
| 234 | 14.111 | 14.081 | 14.149 | VV | 18488  | 321885 | 20.73% | 0.419% |
| 235 | 14.171 | 14.149 | 14.185 | VV | 4078   | 78555  | 5.06%  | 0.102% |
| 236 | 14.200 | 14.185 | 14.217 | VV | 3463   | 61855  | 3.98%  | 0.080% |
| 237 | 14.227 | 14.217 | 14.251 | VV | 3133   | 58756  | 3.78%  | 0.076% |
| 238 | 14.259 | 14.251 | 14.278 | VV | 2751   | 43579  | 2.81%  | 0.057% |
| 239 | 14.342 | 14.278 | 14.370 | VV | 4092   | 176944 | 11.40% | 0.230% |
| 240 | 14.377 | 14.370 | 14.392 | VV | 2955   | 37342  | 2.40%  | 0.049% |
| 241 | 14.403 | 14.392 | 14.430 | VV | 2974   | 62490  | 4.02%  | 0.081% |
| 242 | 14.445 | 14.430 | 14.459 | VV | 2790   | 46536  | 3.00%  | 0.061% |
| 243 | 14.476 | 14.459 | 14.484 | VV | 3286   | 45675  | 2.94%  | 0.059% |
| 244 | 14.500 | 14.484 | 14.522 | VV | 3471   | 71224  | 4.59%  | 0.093% |
| 245 | 14.528 | 14.522 | 14.559 | VV | 2888   | 56518  | 3.64%  | 0.074% |
| 246 | 14.562 | 14.559 | 14.584 | VV | 2294   | 33366  | 2.15%  | 0.043% |



|     |        |        |        |    | rteres |        |        |        |
|-----|--------|--------|--------|----|--------|--------|--------|--------|
| 247 | 14.590 | 14.584 | 14.608 | VV | 2376   | 32923  | 2.12%  | 0.043% |
| 248 | 14.623 | 14.608 | 14.645 | VV | 2575   | 48504  | 3.12%  | 0.063% |
| 249 | 14.673 | 14.645 | 14.707 | VV | 10541  | 179778 | 11.58% | 0.234% |
| 250 | 14.736 | 14.707 | 14.754 | VV | 2291   | 58818  | 3.79%  | 0.077% |
| 251 | 14.767 | 14.754 | 14.780 | VV | 2063   | 31343  | 2.02%  | 0.041% |
| 252 | 14.799 | 14.780 | 14.817 | VV | 2496   | 49835  | 3.21%  | 0.065% |
| 253 | 14.829 | 14.817 | 14.852 | VV | 2340   | 42630  | 2.75%  | 0.055% |
| 254 | 14.869 | 14.852 | 14.907 | VV | 1949   | 59597  | 3.84%  | 0.078% |
| 255 | 14.926 | 14.907 | 14.939 | VV | 1657   | 29684  | 1.91%  | 0.039% |
| 256 | 14.954 | 14.939 | 14.979 | VV | 1826   | 38807  | 2.50%  | 0.050% |
| 257 | 15.009 | 14.979 | 15.042 | VV | 4745   | 104489 | 6.73%  | 0.136% |
| 258 | 15.065 | 15.042 | 15.089 | VV | 1708   | 40718  | 2.62%  | 0.053% |
| 259 | 15.104 | 15.089 | 15.129 | VV | 1398   | 27949  | 1.80%  | 0.036% |
| 260 | 15.145 | 15.129 | 15.154 | VV | 1203   | 16526  | 1.06%  | 0.021% |
| 261 | 15.214 | 15.154 | 15.242 | VV | 6067   | 135182 | 8.71%  | 0.176% |
| 262 | 15.257 | 15.242 | 15.284 | VV | 1398   | 28855  | 1.86%  | 0.038% |
| 263 | 15.299 | 15.284 | 15.338 | VV | 1159   | 30962  | 1.99%  | 0.040% |
| 264 | 15.349 | 15.338 | 15.373 | VV | 868    | 16558  | 1.07%  | 0.022% |
| 265 | 15.408 | 15.373 | 15.437 | VV | 889    | 30031  | 1.93%  | 0.039% |
| 266 | 15.459 | 15.437 | 15.484 | VV | 1106   | 23621  | 1.52%  | 0.031% |
| 267 | 15.489 | 15.484 | 15.510 | VV | 591    | 7777   | 0.50%  | 0.010% |
| 268 | 15.526 | 15.510 | 15.532 | VV | 584    | 6746   | 0.43%  | 0.009% |
| 269 | 15.550 | 15.532 | 15.564 | VV | 714    | 11588  | 0.75%  | 0.015% |
| 270 | 15.593 | 15.564 | 15.619 | VV | 2175   | 43280  | 2.79%  | 0.056% |
| 271 | 15.631 | 15.619 | 15.676 | VV | 1265   | 29433  | 1.90%  | 0.038% |
| 272 | 15.689 | 15.676 | 15.706 | VV | 673    | 9649   | 0.62%  | 0.013% |
| 273 | 15.733 | 15.706 | 15.772 | VV | 3012   | 49059  | 3.16%  | 0.064% |
| 274 | 15.794 | 15.772 | 15.801 | VV | 723    | 10673  | 0.69%  | 0.014% |
| 275 | 15.805 | 15.801 | 15.836 | VV | 653    | 9030   | 0.58%  | 0.012% |
| 276 | 15.850 | 15.836 | 15.884 | VV | 236    | 4292   | 0.28%  | 0.006% |
| 277 | 15.916 | 15.884 | 15.927 | PV | 247    | 4001   | 0.26%  | 0.005% |
| 278 | 15.959 | 15.927 | 15.991 | VV | 289    | 7421   | 0.48%  | 0.010% |
| 279 | 16.009 | 15.991 | 16.075 | VV | 375    | 10549  | 0.68%  | 0.014% |
| 280 | 16.082 | 16.075 | 16.086 | VV | 148    | 673    | 0.04%  | 0.001% |
| 281 | 16.105 | 16.086 | 16.121 | VV | 266    | 4214   | 0.27%  | 0.005% |
| 282 | 16.125 | 16.121 | 16.137 | VV | 169    | 1012   | 0.07%  | 0.001% |
| 283 | 16.168 | 16.137 | 16.175 | VV | 287    | 3847   | 0.25%  | 0.005% |
| 284 | 16.196 | 16.175 | 16.211 | VV | 422    | 6245   | 0.40%  | 0.008% |
| 285 | 16.233 | 16.211 | 16.263 | VV | 1675   | 23173  | 1.49%  | 0.030% |
| 286 | 16.267 | 16.263 | 16.271 | VV | 107    | 388    | 0.02%  | 0.001% |
| 287 | 16.294 | 16.271 | 16.315 | VV | 282    | 3960   | 0.26%  | 0.005% |
| 288 | 16.325 | 16.315 | 16.345 | VV | 110    | 1326   | 0.09%  | 0.002% |
| 289 | 16.374 | 16.345 | 16.393 | VV | 417    | 6424   | 0.41%  | 0.008% |
| 290 | 16.413 | 16.393 | 16.442 | VV | 418    | 7372   | 0.47%  | 0.010% |
| 291 | 16.449 | 16.442 | 16.487 | VV | 155    | 1797   | 0.12%  | 0.002% |
| 292 | 16.533 | 16.487 | 16.544 | PV | 183    | 3319   | 0.21%  | 0.004% |
| 293 | 16.553 | 16.544 | 16.567 | VV | 213    | 2183   | 0.14%  | 0.003% |
| 294 | 16.603 | 16.567 | 16.644 | VV | 513    | 11467  | 0.74%  | 0.015% |
| 295 | 16.717 | 16.644 | 16.751 | VV | 1483   | 32417  | 2.09%  | 0.042% |
| 296 | 16.791 | 16.751 | 16.821 | VV | 763    | 17367  | 1.12%  | 0.023% |
| 297 | 16.840 | 16.821 | 16.844 | VV | 245    | 2428   | 0.16%  | 0.003% |
| 298 | 16.847 | 16.844 | 16.854 | VV | 261    | 904    | 0.06%  | 0.001% |
| 299 | 16.886 | 16.854 | 16.923 | VV | 300    | 7869   | 0.51%  | 0.010% |

|                         |        |        |        |     |        |          |       |        |
|-------------------------|--------|--------|--------|-----|--------|----------|-------|--------|
|                         |        |        |        |     | rteres |          |       |        |
| 300                     | 16.932 | 16.923 | 16.945 | VV  | 201    | 1779     | 0.11% | 0.002% |
| 301                     | 16.950 | 16.945 | 16.970 | VV  | 175    | 1315     | 0.08% | 0.002% |
| 302                     | 16.975 | 16.970 | 16.986 | PV  | 140    | 668      | 0.04% | 0.001% |
| 303                     | 16.990 | 16.986 | 17.029 | VV  | 137    | 1856     | 0.12% | 0.002% |
| 304                     | 17.034 | 17.029 | 17.037 | VV  | 117    | 345      | 0.02% | 0.000% |
| 305                     | 17.043 | 17.037 | 17.049 | VV  | 162    | 829      | 0.05% | 0.001% |
| 306                     | 17.080 | 17.049 | 17.114 | VV  | 647    | 11938    | 0.77% | 0.016% |
| 307                     | 17.141 | 17.114 | 17.162 | VV  | 428    | 8255     | 0.53% | 0.011% |
| 308                     | 17.183 | 17.162 | 17.233 | VV  | 1482   | 21995    | 1.42% | 0.029% |
| 309                     | 17.260 | 17.233 | 17.301 | VBA | 1741   | 26157    | 1.68% | 0.034% |
| Sum of corrected areas: |        |        |        |     |        | 76873761 |       |        |

FF102124.M Sat Oct 26 04:47:15 2024



# CALIBRATION SUMMARY

|    |
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**DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY**

Lab Name: Chemtech Contract: CHEM02  
ProjectID: NJ Soil PT  
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

| Calibration Sequence : FF102124 |            | Test : Diesel Range Organics |                  |
|---------------------------------|------------|------------------------------|------------------|
| Concentration (PPM)             | Area Count | Reference Factor             | File ID          |
| 1000                            | 140350994  | 140351                       | FF014706.D       |
| 500                             | 71252825   | 142506                       | FF014707.D       |
| 200                             | 29731497   | 148657                       | FF014708.D       |
| 100                             | 14736133   | 147361                       | FF014709.D       |
| 50                              | 7756416    | 155128                       | FF014710.D       |
| AVG RF : 146801                 |            | % RSD : 3.93                 | AVG RT : 14.9988 |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014706.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 15:19  
Operator : YP\AJ  
Sample : 100 TRPH STD  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
100 TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 21 16:33:12 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Mon Oct 21 16:33:03 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 15.004 | 12616850 | 97.686 ug/ml |
| Target Compounds              |        |          |              |
| 1) N-OCTANE                   | 2.043  | 13303881 | 97.457 ug/ml |
| 2) N-DECANE                   | 4.565  | 13643519 | 97.480 ug/ml |
| 3) N-DODECANE                 | 6.728  | 13881024 | 97.606 ug/ml |
| 4) N-TETRADECANE              | 8.553  | 14019933 | 97.646 ug/ml |
| 5) N-HEXADECANE               | 10.158 | 14084820 | 97.688 ug/ml |
| 6) N-OCTADECANE               | 11.600 | 14358713 | 97.581 ug/ml |
| 7) N-EICOSANE                 | 12.909 | 14522471 | 97.553 ug/ml |
| 8) N-DOCOSANE                 | 14.105 | 14098837 | 97.674 ug/ml |
| 10) N-TETRACOSANE             | 15.209 | 14060252 | 97.641 ug/ml |
| 11) N-HEXACOSANE              | 16.228 | 13967032 | 97.601 ug/ml |
| 12) N-OCTACOSANE              | 17.177 | 13714393 | 97.282 ug/ml |
| 13) N-TRIACONTANE             | 18.063 | 13703234 | 96.955 ug/ml |
| 14) N-DOTRIACONTANE           | 18.895 | 13274210 | 96.422 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.677 | 12732685 | 96.508 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.415 | 11728155 | 92.256 ug/ml |
| 17) N-OCTATRIACONTANE         | 21.148 | 10778979 | 96.559 ug/ml |
| 18) N-TETRACONTANE            | 22.054 | 9894843  | 96.655 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

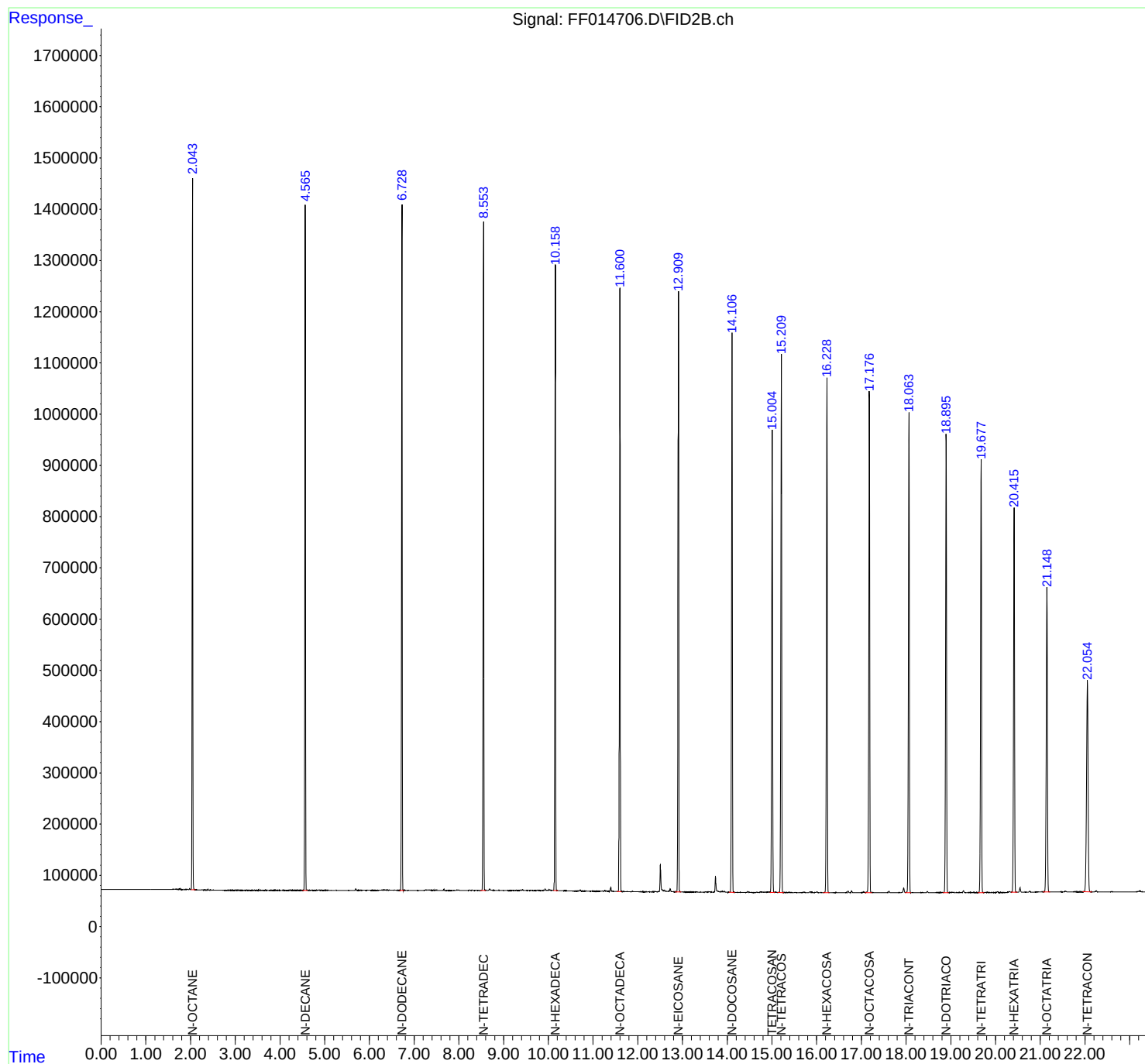
(m)=manual int.

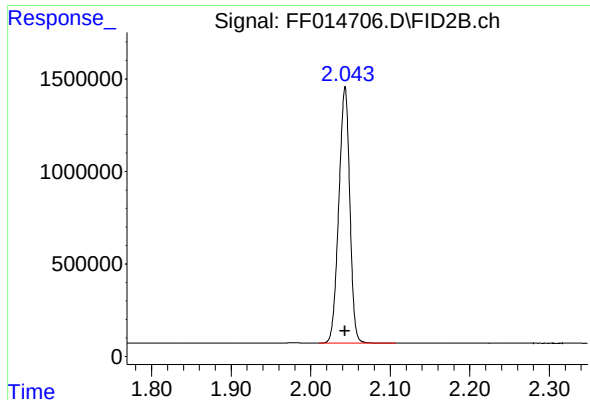
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014706.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 15:19  
Operator : YP\AJ  
Sample : 100 TRPH STD  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
100 TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 21 16:33:12 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
Qlast Update : Mon Oct 21 16:33:03 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

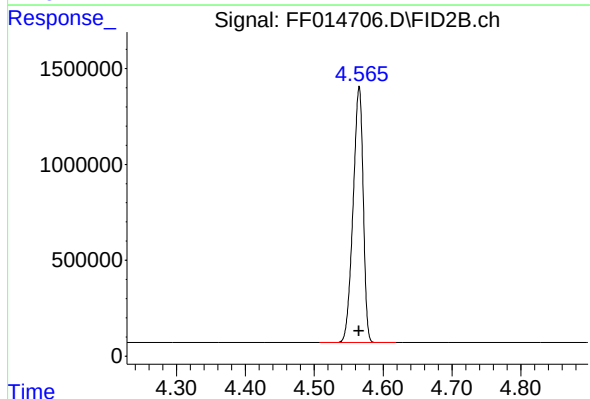




#1 N-OCTANE

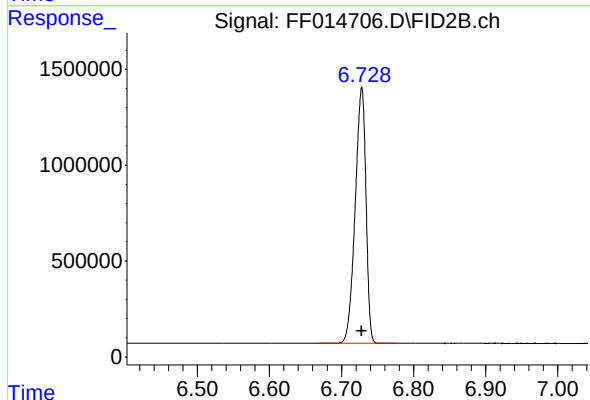
R.T.: 2.043 min  
Delta R.T.: 0.000 min  
Response: 13303881  
Conc: 97.46 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
100 TRPH STD



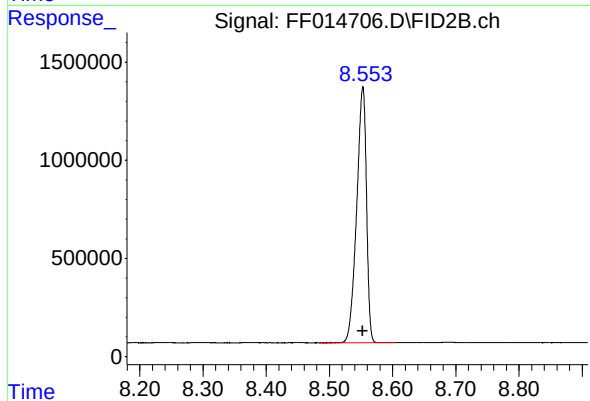
#2 N-DECANE

R.T.: 4.565 min  
Delta R.T.: 0.000 min  
Response: 13643519  
Conc: 97.48 ug/ml



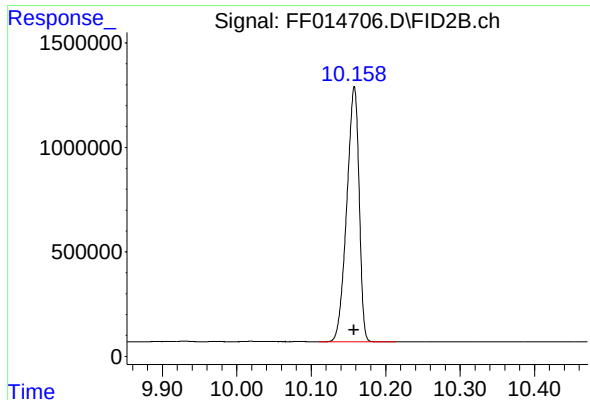
#3 N-DODECANE

R.T.: 6.728 min  
Delta R.T.: 0.000 min  
Response: 13881024  
Conc: 97.61 ug/ml



#4 N-TETRADECANE

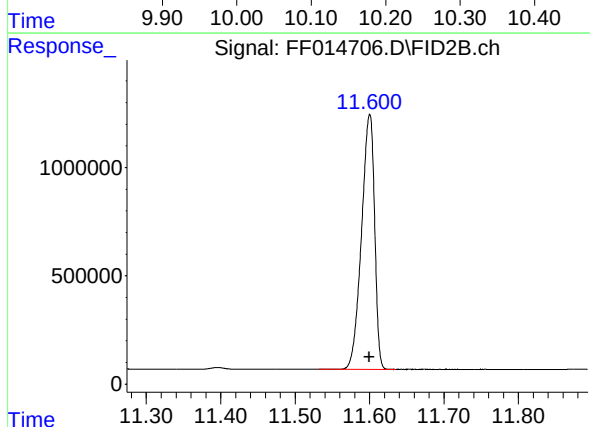
R.T.: 8.553 min  
Delta R.T.: 0.000 min  
Response: 14019933  
Conc: 97.65 ug/ml



#5 N-HEXADECANE

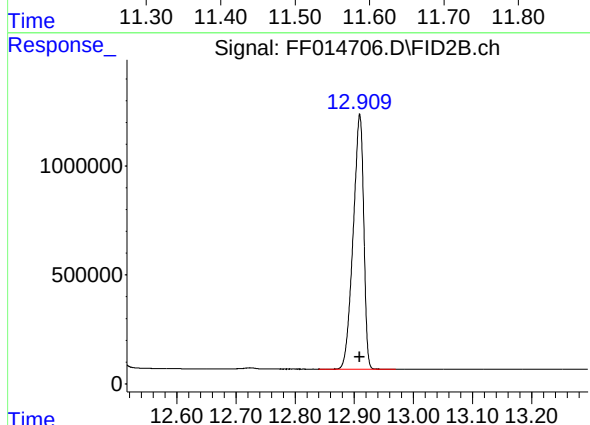
R.T.: 10.158 min  
Delta R.T.: 0.000 min  
Response: 14084820  
Conc: 97.69 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
100 TRPH STD



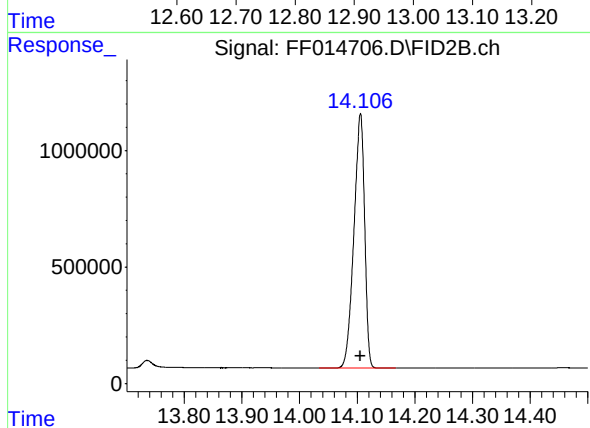
#6 N-OCTADECANE

R.T.: 11.600 min  
Delta R.T.: 0.000 min  
Response: 14358713  
Conc: 97.58 ug/ml



#7 N-EICOSANE

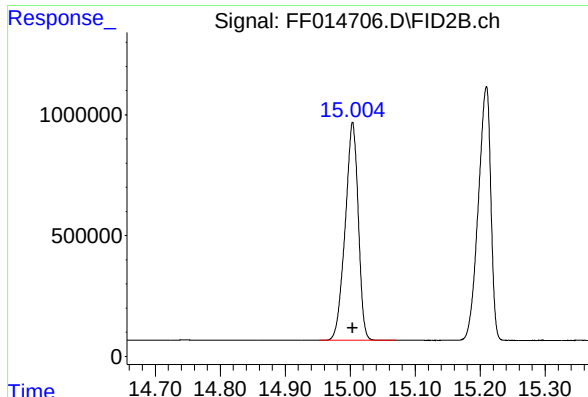
R.T.: 12.909 min  
Delta R.T.: 0.000 min  
Response: 14522471  
Conc: 97.55 ug/ml



#8 N-DOCOSANE

R.T.: 14.105 min  
Delta R.T.: 0.000 min  
Response: 14098837  
Conc: 97.67 ug/ml

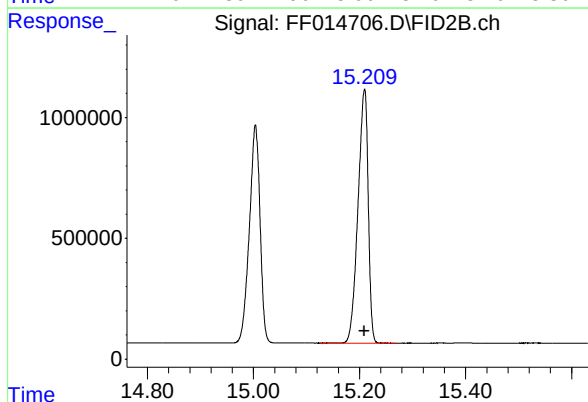




#9 TETRACOSANE-d50 (SURROGATE)

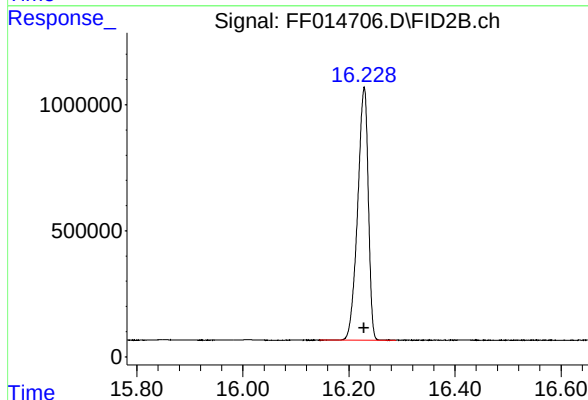
R.T.: 15.004 min  
Delta R.T.: 0.000 min  
Response: 12616850  
Conc: 97.69 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
100 TRPH STD



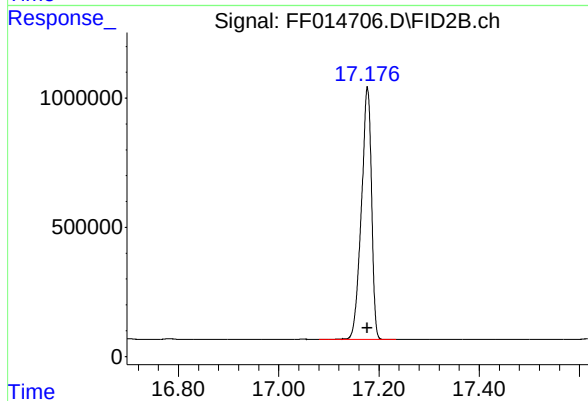
#10 N-TETRACOSANE

R.T.: 15.209 min  
Delta R.T.: 0.000 min  
Response: 14060252  
Conc: 97.64 ug/ml



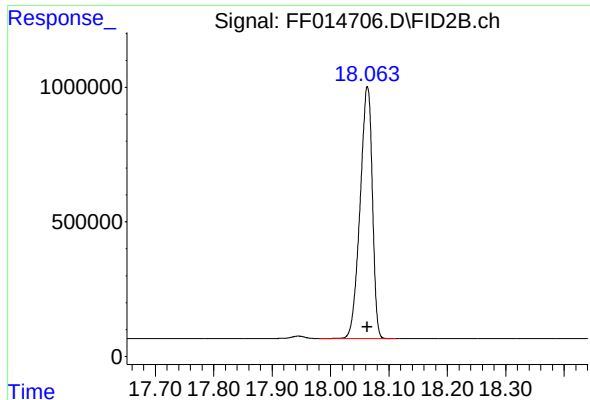
#11 N-HEXACOSANE

R.T.: 16.228 min  
Delta R.T.: 0.000 min  
Response: 13967032  
Conc: 97.60 ug/ml



#12 N-OCTACOSANE

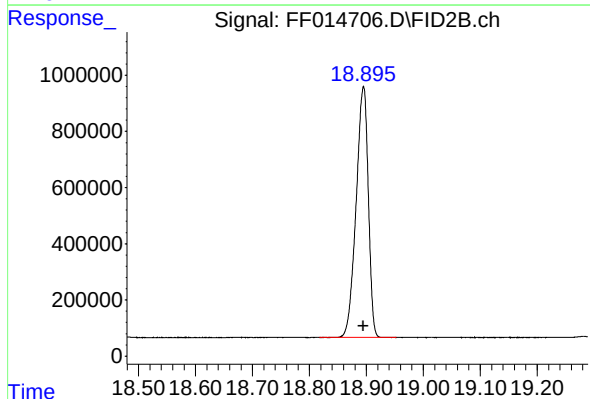
R.T.: 17.177 min  
Delta R.T.: 0.000 min  
Response: 13714393  
Conc: 97.28 ug/ml



#13 N-TRIACONTANE

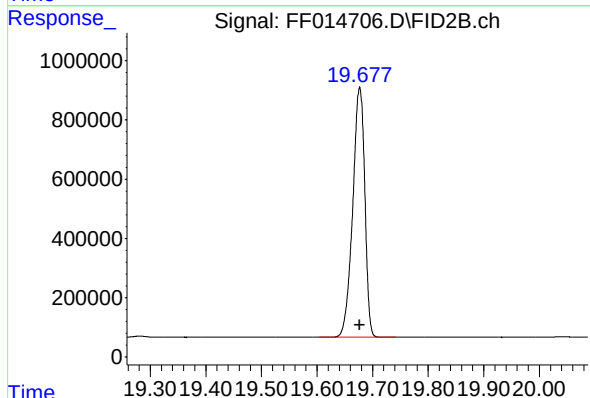
R.T.: 18.063 min  
Delta R.T.: 0.000 min  
Response: 13703234  
Conc: 96.96 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
100 TRPH STD



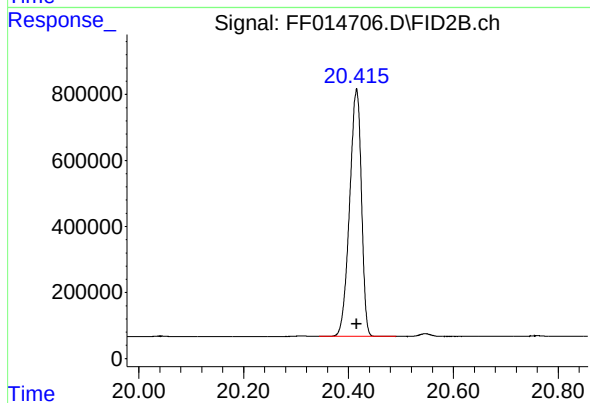
#14 N-DOTRIACONTANE

R.T.: 18.895 min  
Delta R.T.: 0.000 min  
Response: 13274210  
Conc: 96.42 ug/ml



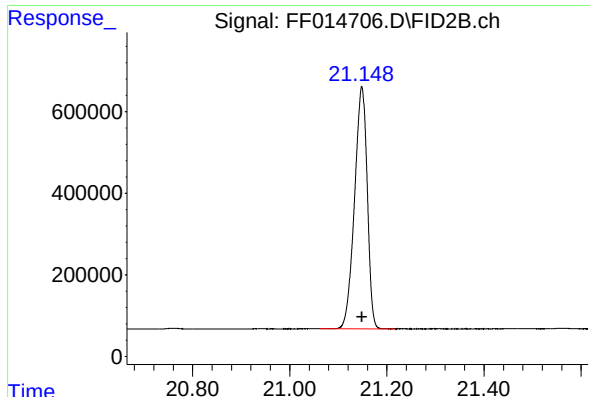
#15 N-TETRATRIACONTANE

R.T.: 19.677 min  
Delta R.T.: 0.000 min  
Response: 12732685  
Conc: 96.51 ug/ml



#16 N-HEXATRIACONTANE

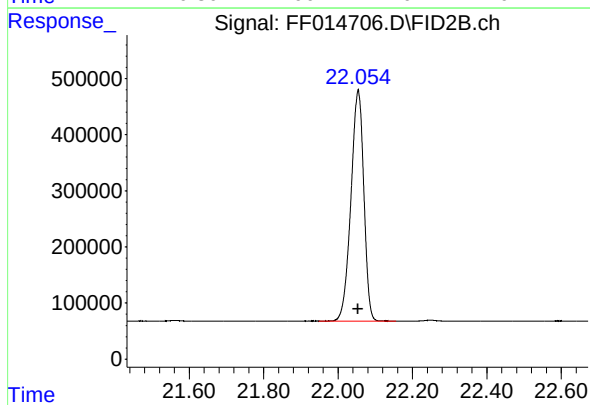
R.T.: 20.415 min  
Delta R.T.: 0.000 min  
Response: 11728155  
Conc: 92.26 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.148 min  
Delta R.T.: 0.000 min  
Response: 10778979  
Conc: 96.56 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
100 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.054 min  
Delta R.T.: 0.000 min  
Response: 9894843  
Conc: 96.66 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014706.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 15:19  
Sample : 100 TRPH STD  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 2.043       | 2.010        | 2.107      | BB       | 1395961        | 13303881     | 91.61%         | 5.581%        |
| 2                       | 4.565       | 4.507        | 4.619      | BB       | 1341281        | 13643519     | 93.95%         | 5.723%        |
| 3                       | 6.728       | 6.669        | 6.775      | BB       | 1330027        | 13881024     | 95.58%         | 5.823%        |
| 4                       | 8.553       | 8.484        | 8.605      | BB       | 1298555        | 14019933     | 96.54%         | 5.881%        |
| 5                       | 10.158      | 10.110       | 10.214     | BB       | 1220871        | 14084820     | 96.99%         | 5.908%        |
| 6                       | 11.600      | 11.532       | 11.635     | BB       | 1181144        | 14358713     | 98.87%         | 6.023%        |
| 7                       | 12.909      | 12.840       | 12.970     | BB       | 1171768        | 14522471     | 100.00%        | 6.092%        |
| 8                       | 14.105      | 14.034       | 14.167     | BB       | 1091851        | 14098837     | 97.08%         | 5.914%        |
| 9                       | 15.004      | 14.952       | 15.070     | PV       | 902788         | 12616850     | 86.88%         | 5.293%        |
| 10                      | 15.209      | 15.124       | 15.269     | BB       | 1048448        | 14060252     | 96.82%         | 5.898%        |
| 11                      | 16.228      | 16.144       | 16.289     | BB       | 1005857        | 13967032     | 96.18%         | 5.859%        |
| 12                      | 17.177      | 17.080       | 17.234     | BB       | 974907         | 13714393     | 94.44%         | 5.753%        |
| 13                      | 18.063      | 17.980       | 18.112     | VB       | 936741         | 13703234     | 94.36%         | 5.748%        |
| 14                      | 18.895      | 18.817       | 18.952     | BB       | 896329         | 13274210     | 91.40%         | 5.568%        |
| 15                      | 19.677      | 19.604       | 19.742     | BB       | 845219         | 12732685     | 87.68%         | 5.341%        |
| 16                      | 20.415      | 20.344       | 20.490     | BB       | 749880         | 11728155     | 80.76%         | 4.920%        |
| 17                      | 21.148      | 21.060       | 21.219     | BB       | 593991         | 10778979     | 74.22%         | 4.522%        |
| 18                      | 22.054      | 21.949       | 22.155     | BB       | 412482         | 9894843      | 68.13%         | 4.151%        |
| Sum of corrected areas: |             |              |            |          |                | 238383831    |                |               |

FF102124.M Tue Oct 22 01:22:37 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014707.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 15:48  
Operator : YP\AJ  
Sample : 50 TRPH STD  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
50 TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 21 16:23:05 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Mon Oct 21 16:22:11 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.999 | 6372635  | 50.000 ug/ml |
| Target Compounds              |        |          |              |
| 1) N-OCTANE                   | 2.043  | 6799200  | 50.000 ug/ml |
| 2) N-DECANE                   | 4.562  | 6973777  | 50.000 ug/ml |
| 3) N-DODECANE                 | 6.725  | 7075054  | 50.000 ug/ml |
| 4) N-TETRADECANE              | 8.548  | 7134727  | 50.000 ug/ml |
| 5) N-HEXADECANE               | 10.154 | 7147932  | 50.000 ug/ml |
| 6) N-OCTADECANE               | 11.596 | 7284916  | 50.000 ug/ml |
| 7) N-EICOSANE                 | 12.904 | 7361127  | 50.000 ug/ml |
| 8) N-DOCOSANE                 | 14.101 | 7131319  | 50.000 ug/ml |
| 10) N-TETRACOSANE             | 15.203 | 7111018  | 50.000 ug/ml |
| 11) N-HEXACOSANE              | 16.223 | 7063296  | 50.000 ug/ml |
| 12) N-OCTACOSANE              | 17.172 | 6969659  | 50.000 ug/ml |
| 13) N-TRIACONTANE             | 18.060 | 6976894  | 50.000 ug/ml |
| 14) N-DOTRIACONTANE           | 18.891 | 6816042  | 50.000 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.673 | 6534302  | 50.000 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.412 | 6429445  | 50.000 ug/ml |
| 17) N-OCTATRIACONTANE         | 21.144 | 5561666  | 50.000 ug/ml |
| 18) N-TETRACONTANE            | 22.050 | 5164176  | 50.000 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

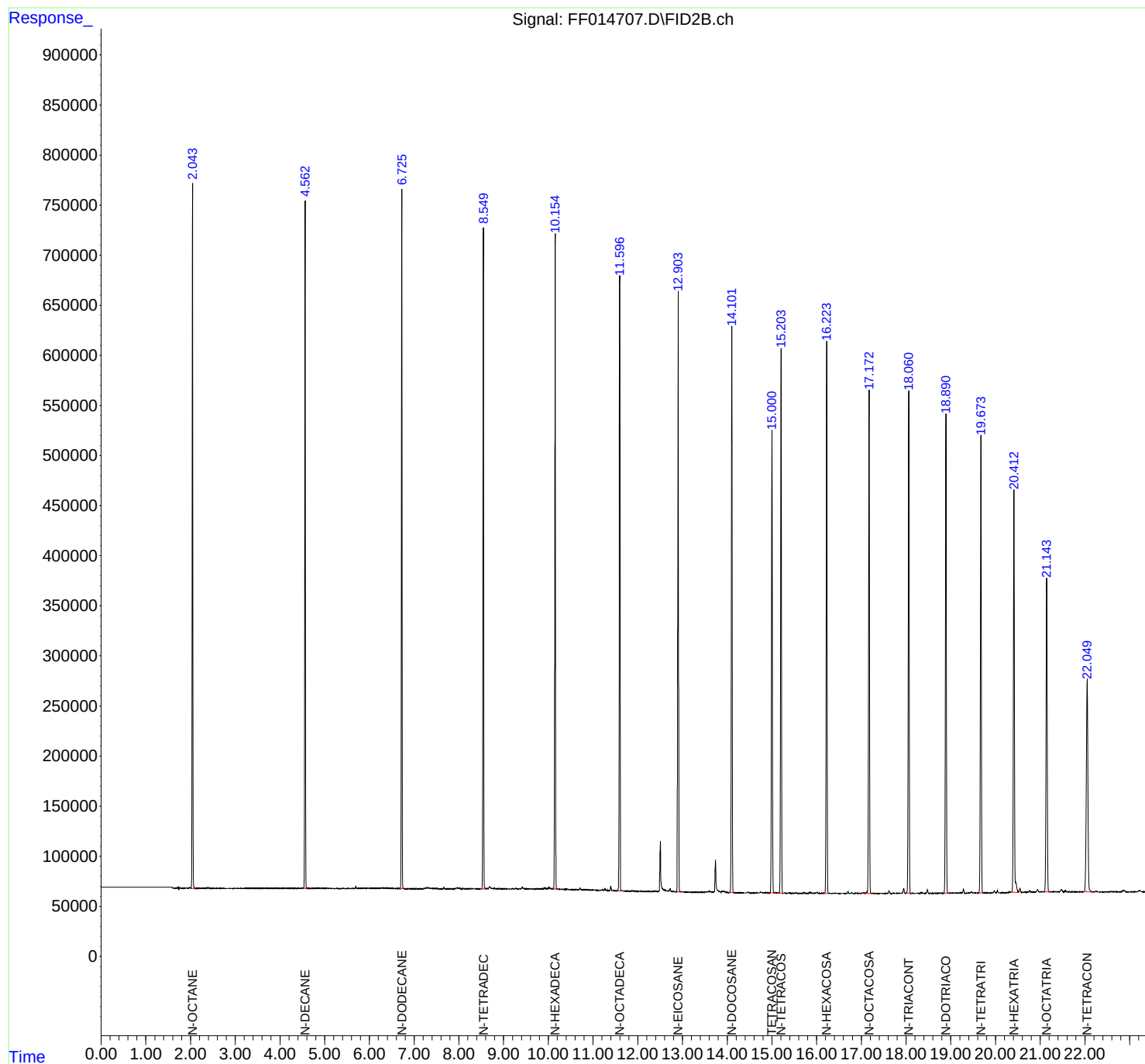
(m)=manual int.

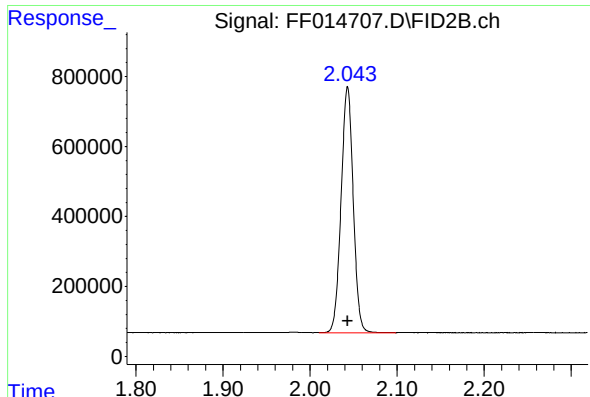
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014707.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 15:48  
Operator : YP\AJ  
Sample : 50 TRPH STD  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
50 TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 21 16:23:05 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Mon Oct 21 16:22:11 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

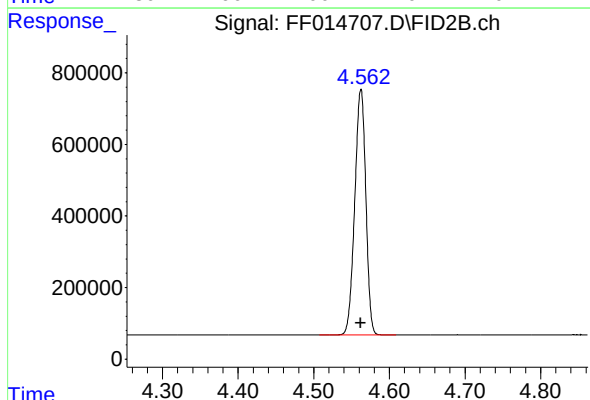




#1 N-OCTANE

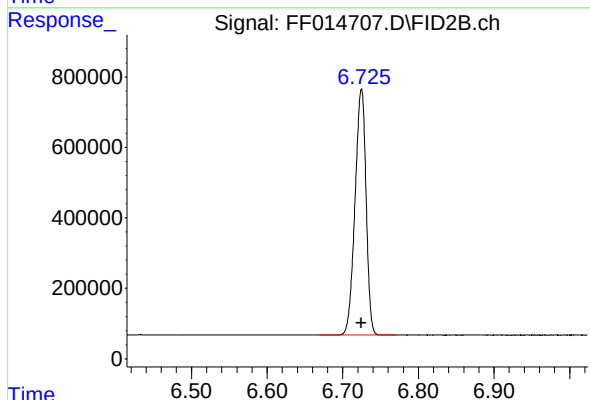
R.T.: 2.043 min  
Delta R.T.: 0.000 min  
Response: 6799200  
Conc: 50.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 TRPH STD



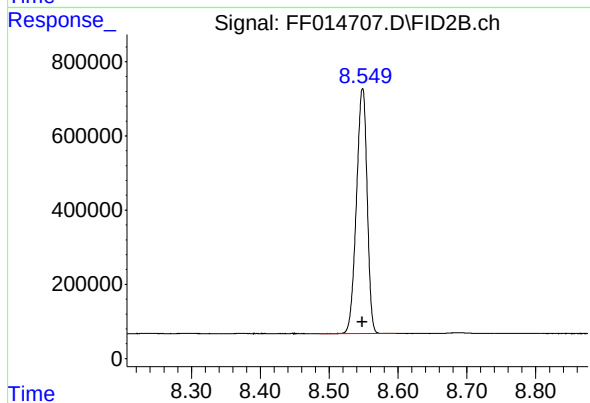
#2 N-DECANE

R.T.: 4.562 min  
Delta R.T.: 0.000 min  
Response: 6973777  
Conc: 50.00 ug/ml



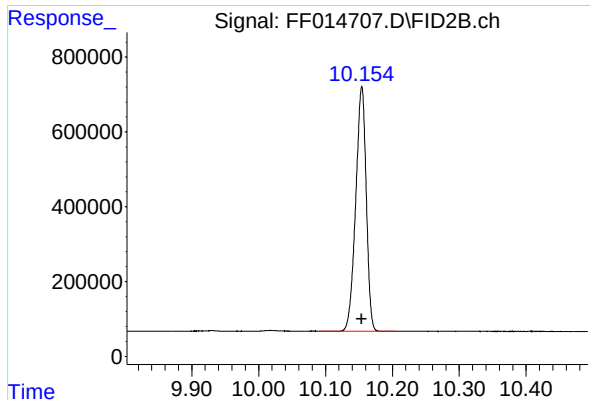
#3 N-DODECANE

R.T.: 6.725 min  
Delta R.T.: 0.000 min  
Response: 7075054  
Conc: 50.00 ug/ml



#4 N-TETRADECANE

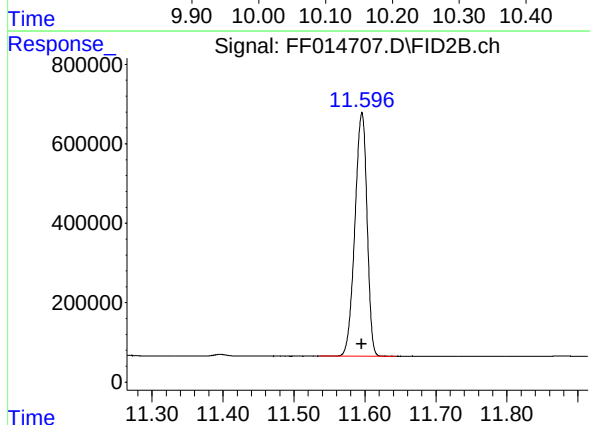
R.T.: 8.548 min  
Delta R.T.: 0.000 min  
Response: 7134727  
Conc: 50.00 ug/ml



#5 N-HEXADECANE

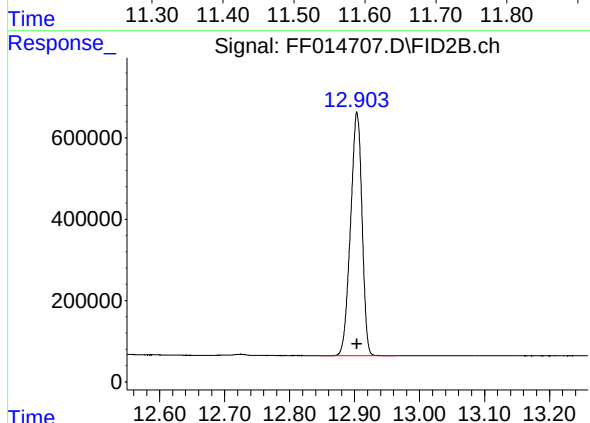
R.T.: 10.154 min  
Delta R.T.: 0.000 min  
Response: 7147932  
Conc: 50.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 TRPH STD



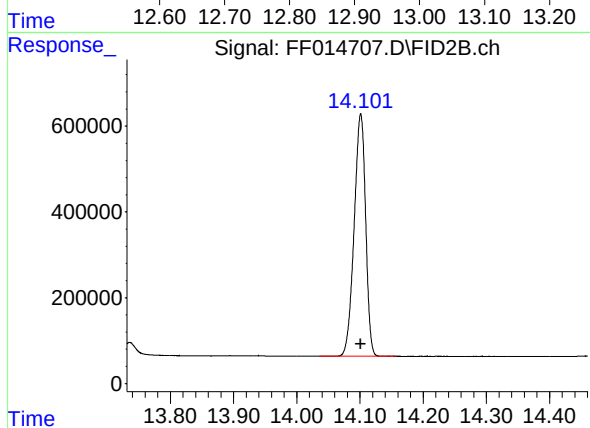
#6 N-OCTADECANE

R.T.: 11.596 min  
Delta R.T.: 0.000 min  
Response: 7284916  
Conc: 50.00 ug/ml



#7 N-EICOSANE

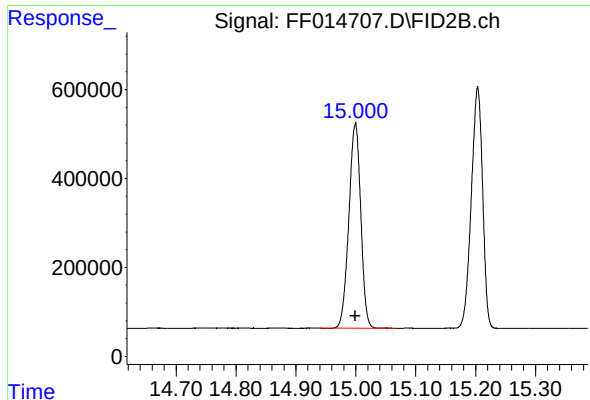
R.T.: 12.904 min  
Delta R.T.: 0.000 min  
Response: 7361127  
Conc: 50.00 ug/ml



#8 N-DOCOSANE

R.T.: 14.101 min  
Delta R.T.: 0.000 min  
Response: 7131319  
Conc: 50.00 ug/ml

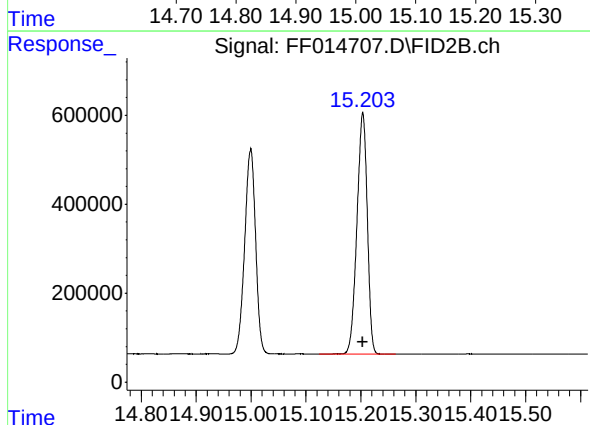




#9 TETRACOSANE-d50 (SURROGATE)

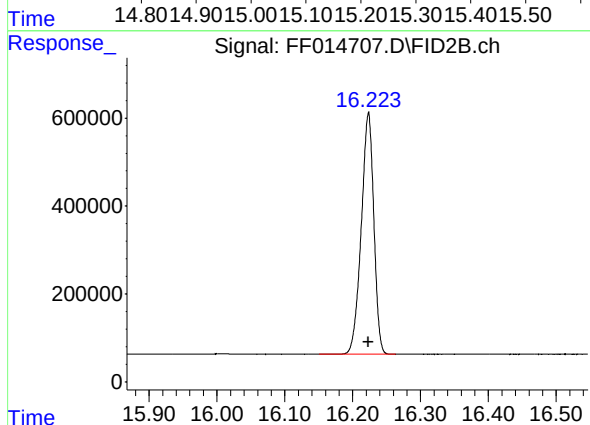
R.T.: 14.999 min  
Delta R.T.: 0.000 min  
Response: 6372635  
Conc: 50.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 TRPH STD



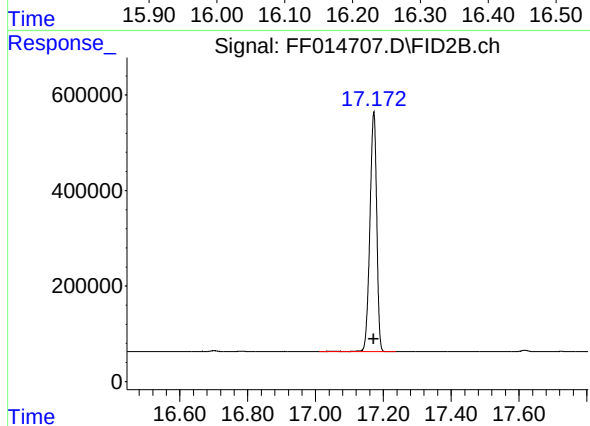
#10 N-TETRACOSANE

R.T.: 15.203 min  
Delta R.T.: 0.000 min  
Response: 7111018  
Conc: 50.00 ug/ml



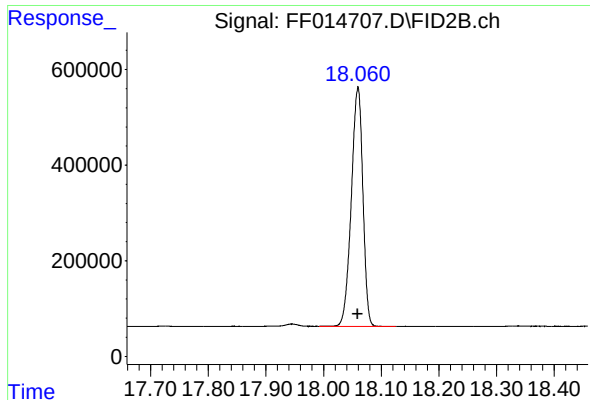
#11 N-HEXACOSANE

R.T.: 16.223 min  
Delta R.T.: 0.000 min  
Response: 7063296  
Conc: 50.00 ug/ml



#12 N-OCTACOSANE

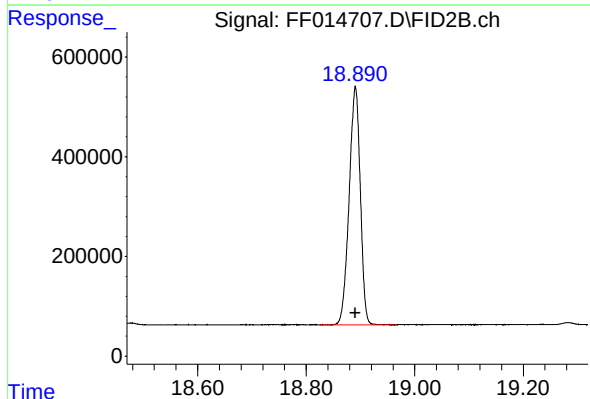
R.T.: 17.172 min  
Delta R.T.: 0.000 min  
Response: 6969659  
Conc: 50.00 ug/ml



#13 N-TRIACONTANE

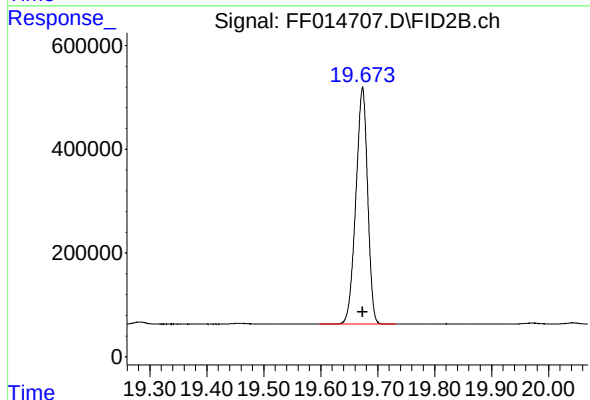
R.T.: 18.060 min  
Delta R.T.: 0.000 min  
Response: 6976894  
Conc: 50.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 TRPH STD



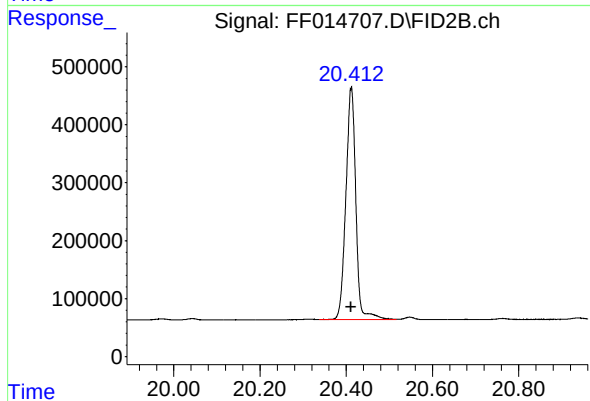
#14 N-DOTRIACONTANE

R.T.: 18.891 min  
Delta R.T.: 0.000 min  
Response: 6816042  
Conc: 50.00 ug/ml



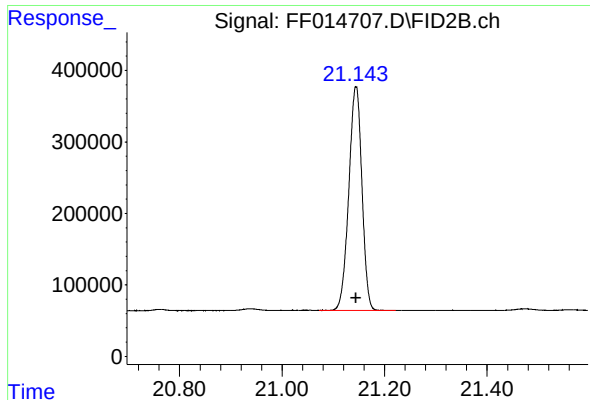
#15 N-TETRATRIACONTANE

R.T.: 19.673 min  
Delta R.T.: 0.000 min  
Response: 6534302  
Conc: 50.00 ug/ml



#16 N-HEXATRIACONTANE

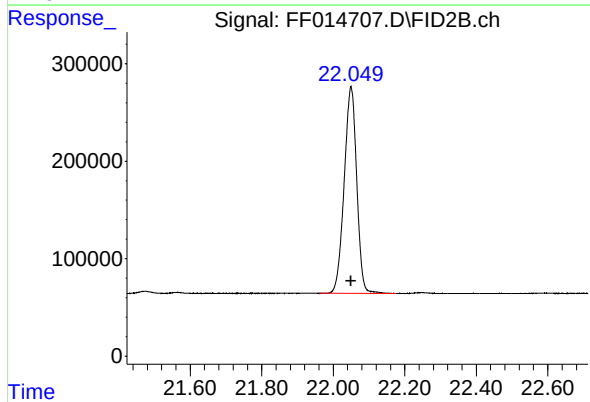
R.T.: 20.412 min  
Delta R.T.: 0.000 min  
Response: 6429445  
Conc: 50.00 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.144 min  
Delta R.T.: 0.000 min  
Response: 5561666  
Conc: 50.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.050 min  
Delta R.T.: 0.000 min  
Response: 5164176  
Conc: 50.00 ug/ml

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
 Data File : FF014707  
 Signal(s) : FID2B.ch  
 Acq On : 21 Oct 2024 15:48  
 Sample : 50 TRPH STD  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
 Title :

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                       | 2.043       | 2.010        | 2.099      | BB       | 704590         | 6799200      | 92.37%         | 5.577%        |
| 2                       | 4.562       | 4.507        | 4.609      | BB       | 686087         | 6973777      | 94.74%         | 5.721%        |
| 3                       | 6.725       | 6.669        | 6.770      | BB       | 696934         | 7075054      | 96.11%         | 5.804%        |
| 4                       | 8.548       | 8.485        | 8.597      | BB       | 661699         | 7134727      | 96.92%         | 5.853%        |
| 5                       | 10.154      | 10.090       | 10.205     | BB       | 653362         | 7147932      | 97.10%         | 5.863%        |
| 6                       | 11.596      | 11.535       | 11.644     | BB       | 613094         | 7284916      | 98.96%         | 5.976%        |
| 7                       | 12.904      | 12.845       | 12.964     | BB       | 598410         | 7361127      | 100.00%        | 6.038%        |
| 8                       | 14.101      | 14.035       | 14.157     | BB       | 564415         | 7131319      | 96.88%         | 5.850%        |
| 9                       | 14.999      | 14.939       | 15.067     | BV       | 458792         | 6372635      | 86.57%         | 5.227%        |
| 10                      | 15.203      | 15.124       | 15.264     | BB       | 544080         | 7111018      | 96.60%         | 5.833%        |
| 11                      | 16.223      | 16.150       | 16.264     | BB       | 552356         | 7063296      | 95.95%         | 5.794%        |
| 12                      | 17.172      | 17.010       | 17.237     | BB       | 502501         | 6969659      | 94.68%         | 5.717%        |
| 13                      | 18.060      | 17.992       | 18.125     | BB       | 497945         | 6976894      | 94.78%         | 5.723%        |
| 14                      | 18.891      | 18.824       | 18.965     | BB       | 478178         | 6816042      | 92.60%         | 5.591%        |
| 15                      | 19.673      | 19.597       | 19.732     | BB       | 457889         | 6534302      | 88.77%         | 5.360%        |
| 16                      | 20.412      | 20.337       | 20.515     | BV       | 399700         | 6429445      | 87.34%         | 5.274%        |
| 17                      | 21.144      | 21.072       | 21.222     | BB       | 313305         | 5561666      | 75.55%         | 4.562%        |
| 18                      | 22.050      | 21.960       | 22.175     | BB       | 212102         | 5164176      | 70.15%         | 4.236%        |
| Sum of corrected areas: |             |              |            |          |                | 121907185    |                |               |

FF102124.M Tue Oct 22 01:23:05 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014708.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 16:17  
Operator : YP\AJ  
Sample : 20 TRPH STD  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
20 TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 21 16:31:35 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Mon Oct 21 16:31:21 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.998 | 2677025  | 20.490 ug/ml |
| Target Compounds              |        |          |              |
| 1) N-OCTANE                   | 2.044  | 2810200  | 20.327 ug/ml |
| 2) N-DECANE                   | 4.561  | 2879556  | 20.318 ug/ml |
| 3) N-DODECANE                 | 6.722  | 2926652  | 20.336 ug/ml |
| 4) N-TETRADECANE              | 8.546  | 2956910  | 20.355 ug/ml |
| 5) N-HEXADECANE               | 10.152 | 2974744  | 20.396 ug/ml |
| 6) N-OCTADECANE               | 11.593 | 3043101  | 20.434 ug/ml |
| 7) N-EICOSANE                 | 12.902 | 3083135  | 20.460 ug/ml |
| 8) N-DOCOSANE                 | 14.099 | 2988496  | 20.466 ug/ml |
| 10) N-TETRACOSANE             | 15.202 | 2983551  | 20.478 ug/ml |
| 11) N-HEXACOSANE              | 16.221 | 2967515  | 20.491 ug/ml |
| 12) N-OCTACOSANE              | 17.170 | 2927837  | 20.490 ug/ml |
| 13) N-TRIACONTANE             | 18.057 | 2948736  | 20.550 ug/ml |
| 14) N-DOTRIACONTANE           | 18.889 | 2878855  | 20.544 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.671 | 2755751  | 20.529 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.410 | 2710131  | 20.524 ug/ml |
| 17) N-OCTATRIACONTANE         | 21.142 | 2317374  | 20.408 ug/ml |
| 18) N-TETRACONTANE            | 22.047 | 2097723  | 20.154 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

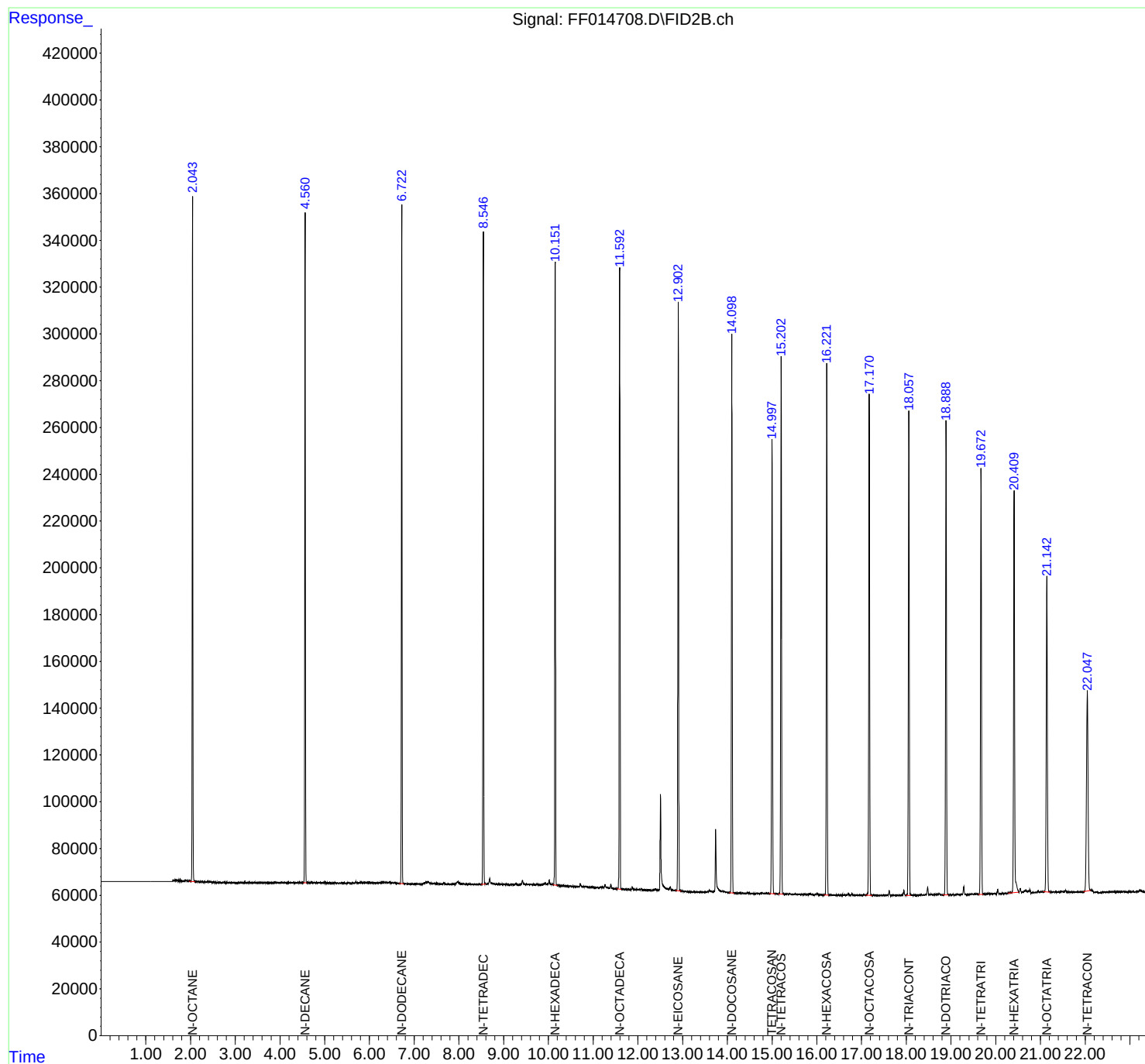
(m)=manual int.

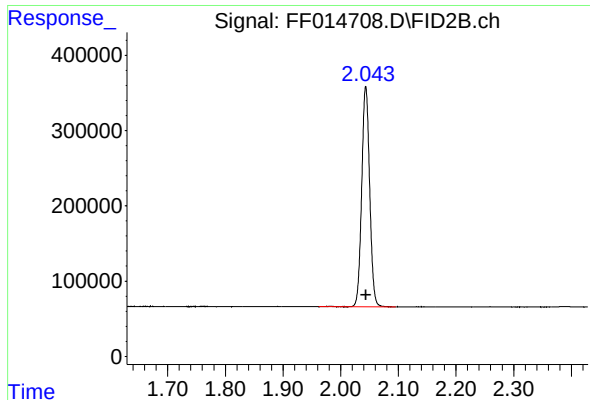
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014708.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 16:17  
Operator : YP\AJ  
Sample : 20 TRPH STD  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
20 TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 21 16:31:35 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Mon Oct 21 16:31:21 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

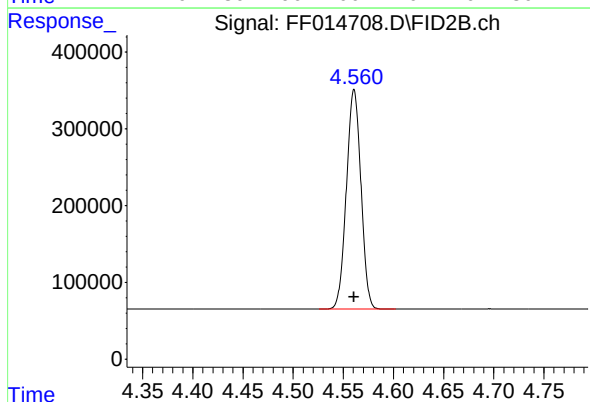




#1 N-OCTANE

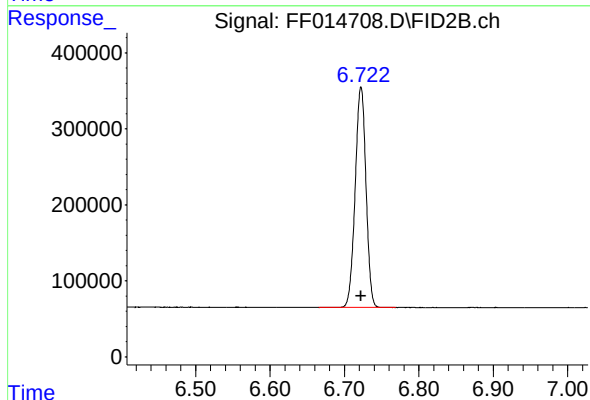
R.T.: 2.044 min  
Delta R.T.: 0.000 min  
Response: 2810200  
Conc: 20.33 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 TRPH STD



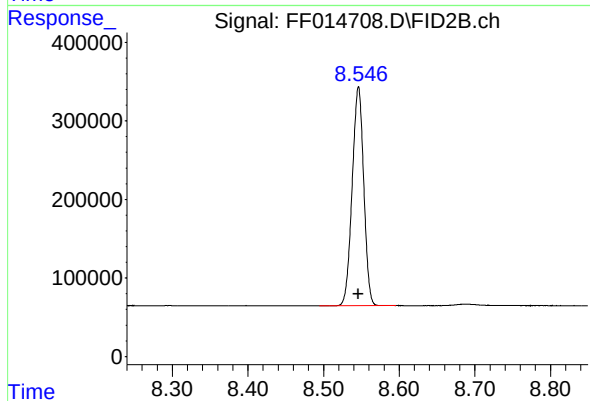
#2 N-DECANE

R.T.: 4.561 min  
Delta R.T.: 0.000 min  
Response: 2879556  
Conc: 20.32 ug/ml



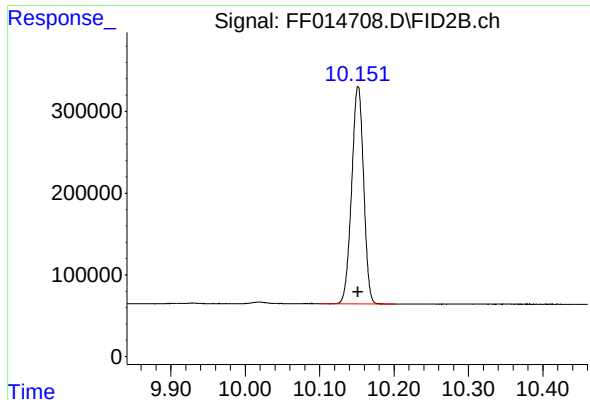
#3 N-DODECANE

R.T.: 6.722 min  
Delta R.T.: 0.000 min  
Response: 2926652  
Conc: 20.34 ug/ml



#4 N-TETRADECANE

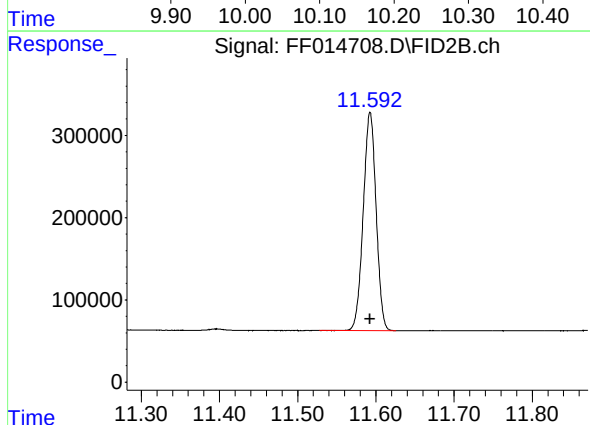
R.T.: 8.546 min  
Delta R.T.: 0.000 min  
Response: 2956910  
Conc: 20.35 ug/ml



#5 N-HEXADECANE

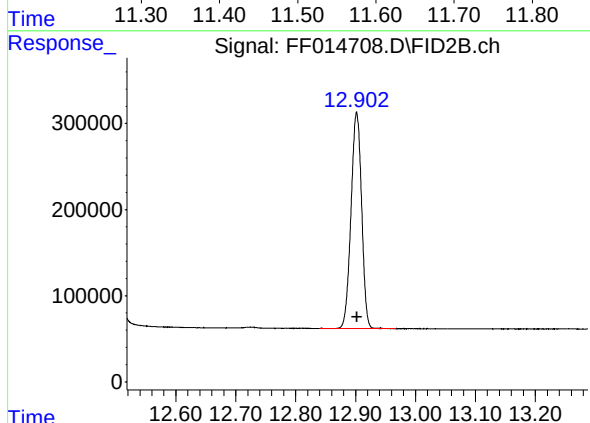
R.T.: 10.152 min  
Delta R.T.: 0.000 min  
Response: 2974744  
Conc: 20.40 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 TRPH STD



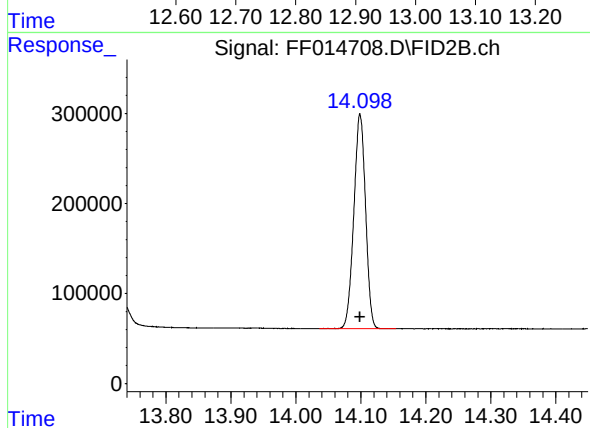
#6 N-OCTADECANE

R.T.: 11.593 min  
Delta R.T.: 0.000 min  
Response: 3043101  
Conc: 20.43 ug/ml



#7 N-EICOSANE

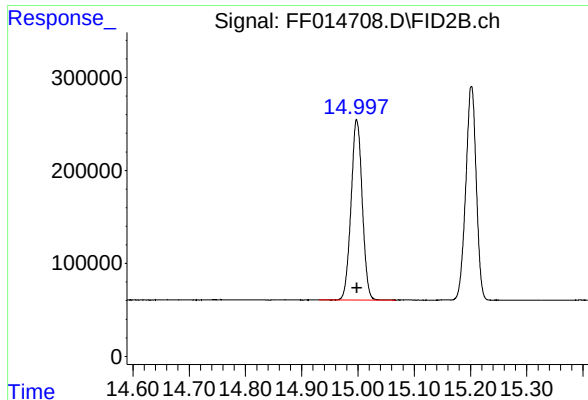
R.T.: 12.902 min  
Delta R.T.: 0.000 min  
Response: 3083135  
Conc: 20.46 ug/ml



#8 N-DOCOSANE

R.T.: 14.099 min  
Delta R.T.: 0.000 min  
Response: 2988496  
Conc: 20.47 ug/ml

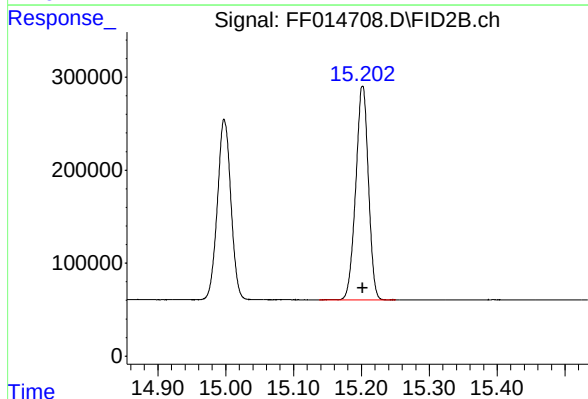




#9 TETRACOSANE-d50 (SURROGATE)

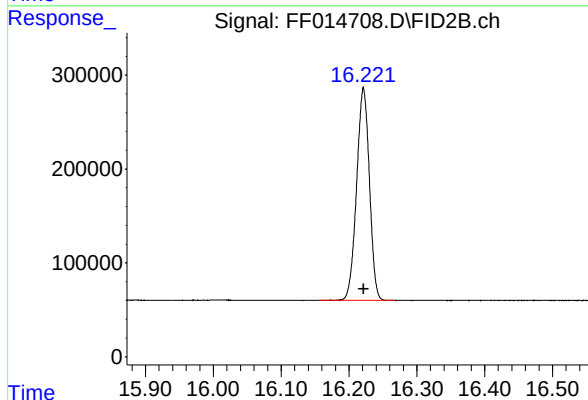
R.T.: 14.998 min  
Delta R.T.: 0.000 min  
Response: 2677025  
Conc: 20.49 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 TRPH STD



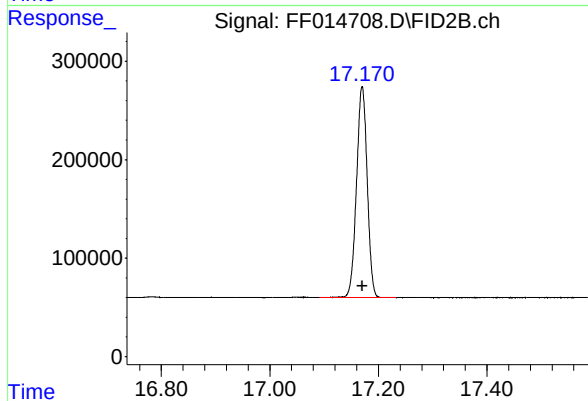
#10 N-TETRACOSANE

R.T.: 15.202 min  
Delta R.T.: 0.000 min  
Response: 2983551  
Conc: 20.48 ug/ml



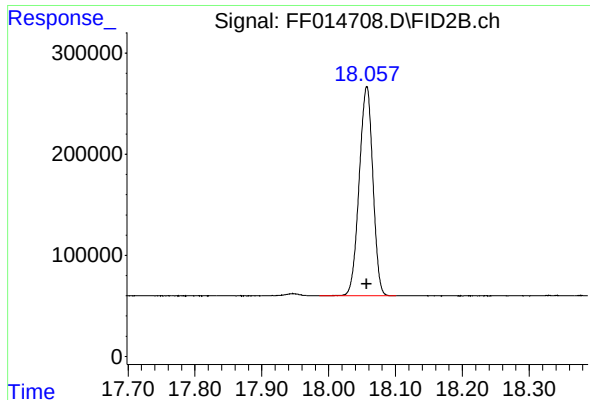
#11 N-HEXACOSANE

R.T.: 16.221 min  
Delta R.T.: 0.000 min  
Response: 2967515  
Conc: 20.49 ug/ml



#12 N-OCTACOSANE

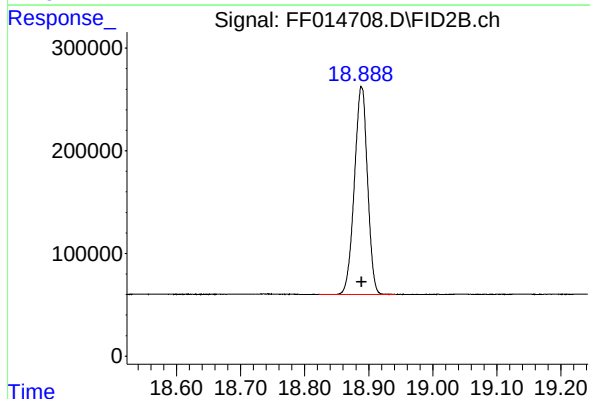
R.T.: 17.170 min  
Delta R.T.: 0.000 min  
Response: 2927837  
Conc: 20.49 ug/ml



#13 N-TRIACONTANE

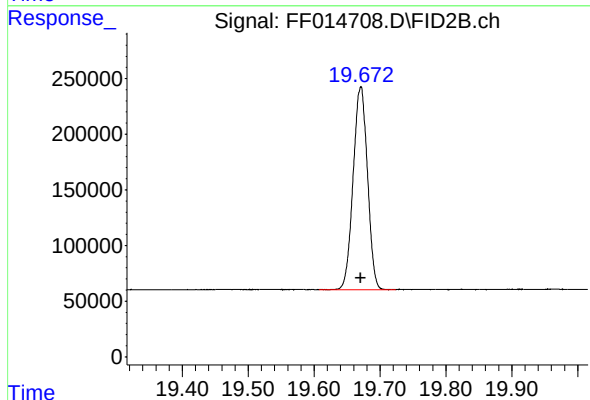
R.T.: 18.057 min  
Delta R.T.: 0.000 min  
Response: 2948736  
Conc: 20.55 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 TRPH STD



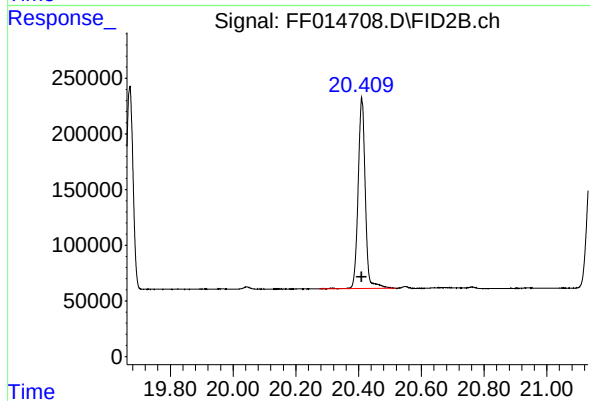
#14 N-DOTRIACONTANE

R.T.: 18.889 min  
Delta R.T.: 0.000 min  
Response: 2878855  
Conc: 20.54 ug/ml



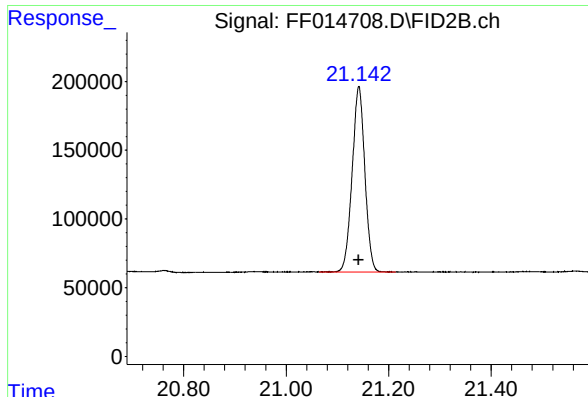
#15 N-TETRATRIACONTANE

R.T.: 19.671 min  
Delta R.T.: 0.000 min  
Response: 2755751  
Conc: 20.53 ug/ml



#16 N-HEXATRIACONTANE

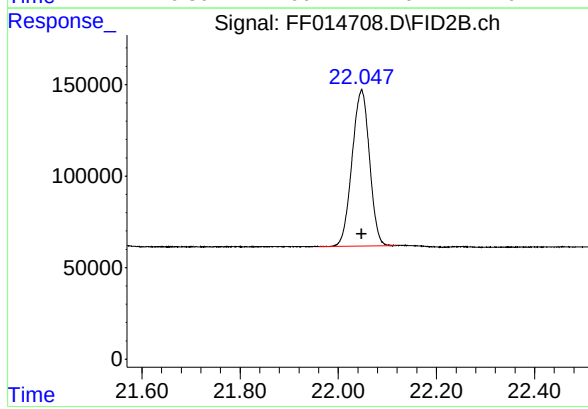
R.T.: 20.410 min  
Delta R.T.: 0.000 min  
Response: 2710131  
Conc: 20.52 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.142 min  
Delta R.T.: 0.000 min  
Response: 2317374  
Conc: 20.41 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.047 min  
Delta R.T.: 0.000 min  
Response: 2097723  
Conc: 20.15 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014708.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 16:17  
Sample : 20 TRPH STD  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 2.044       | 1.962        | 2.096      | BB       | 292677         | 2810200      | 91.15%         | 5.518%        |
| 2                       | 4.561       | 4.526        | 4.602      | BB       | 285811         | 2879556      | 93.40%         | 5.654%        |
| 3                       | 6.722       | 6.666        | 6.769      | BB       | 290445         | 2926652      | 94.92%         | 5.747%        |
| 4                       | 8.546       | 8.494        | 8.596      | BB       | 279038         | 2956910      | 95.91%         | 5.806%        |
| 5                       | 10.152      | 10.099       | 10.202     | BB       | 267113         | 2974744      | 96.48%         | 5.841%        |
| 6                       | 11.593      | 11.527       | 11.626     | BB       | 265920         | 3043101      | 98.70%         | 5.975%        |
| 7                       | 12.902      | 12.839       | 12.967     | BB       | 250833         | 3083135      | 100.00%        | 6.054%        |
| 8                       | 14.099      | 14.036       | 14.154     | BB       | 237819         | 2988496      | 96.93%         | 5.868%        |
| 9                       | 14.998      | 14.931       | 15.067     | BB       | 194003         | 2677025      | 86.83%         | 5.257%        |
| 10                      | 15.202      | 15.137       | 15.251     | BB       | 230517         | 2983551      | 96.77%         | 5.858%        |
| 11                      | 16.221      | 16.156       | 16.269     | BB       | 226569         | 2967515      | 96.25%         | 5.827%        |
| 12                      | 17.170      | 17.091       | 17.232     | BB       | 214635         | 2927837      | 94.96%         | 5.749%        |
| 13                      | 18.057      | 17.986       | 18.101     | BB       | 207388         | 2948736      | 95.64%         | 5.790%        |
| 14                      | 18.889      | 18.822       | 18.942     | BB       | 201787         | 2878855      | 93.37%         | 5.653%        |
| 15                      | 19.671      | 19.607       | 19.724     | BB       | 182282         | 2755751      | 89.38%         | 5.411%        |
| 16                      | 20.410      | 20.274       | 20.519     | BV       | 169042         | 2710131      | 87.90%         | 5.322%        |
| 17                      | 21.142      | 21.064       | 21.214     | BB       | 135315         | 2317374      | 75.16%         | 4.550%        |
| 18                      | 22.047      | 21.961       | 22.117     | BB       | 85564          | 2097723      | 68.04%         | 4.119%        |
| Sum of corrected areas: |             |              |            |          |                |              | 50927293       |               |

FF102124.M Tue Oct 22 01:23:26 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
 Data File : FF014709.D  
 Signal(s) : FID2B.ch  
 Acq On : 21 Oct 2024 16:46  
 Operator : YP\AJ  
 Sample : 10 TRPH STD  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 10 TRPH STD

Integration File: autoint1.e  
 Quant Time: Oct 21 17:01:40 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
 Quant Title :  
 QLast Update : Mon Oct 21 17:01:32 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal Phase : Rxi-1ms  
 Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.997 | 1322603  | 10.179 ug/ml |
| Target Compounds              |        |          |              |
| 1) N-OCTANE                   | 2.044  | 1391050  | 10.142 ug/ml |
| 2) N-DECANE                   | 4.561  | 1431638  | 10.171 ug/ml |
| 3) N-DODECANE                 | 6.721  | 1452786  | 10.161 ug/ml |
| 4) N-TETRADECANE              | 8.545  | 1471114  | 10.183 ug/ml |
| 5) N-HEXADECANE               | 10.151 | 1470544  | 10.149 ug/ml |
| 6) N-OCTADECANE               | 11.592 | 1506346  | 10.177 ug/ml |
| 7) N-EICOSANE                 | 12.901 | 1518951  | 10.152 ug/ml |
| 8) N-DOCOSANE                 | 14.097 | 1479666  | 10.187 ug/ml |
| 10) N-TETRACOSANE             | 15.200 | 1479406  | 10.204 ug/ml |
| 11) N-HEXACOSANE              | 16.220 | 1470196  | 10.204 ug/ml |
| 12) N-OCTACOSANE              | 17.169 | 1455486  | 10.241 ug/ml |
| 13) N-TRIACONTANE             | 18.055 | 1481698  | 10.358 ug/ml |
| 14) N-DOTRIACONTANE           | 18.887 | 1460398  | 10.449 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.670 | 1394669  | 10.422 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.409 | 1350478  | 10.460 ug/ml |
| 17) N-OCTATRIACONTANE         | 21.142 | 1172155  | 10.371 ug/ml |
| 18) N-TETRACONTANE            | 22.047 | 1062736  | 10.283 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

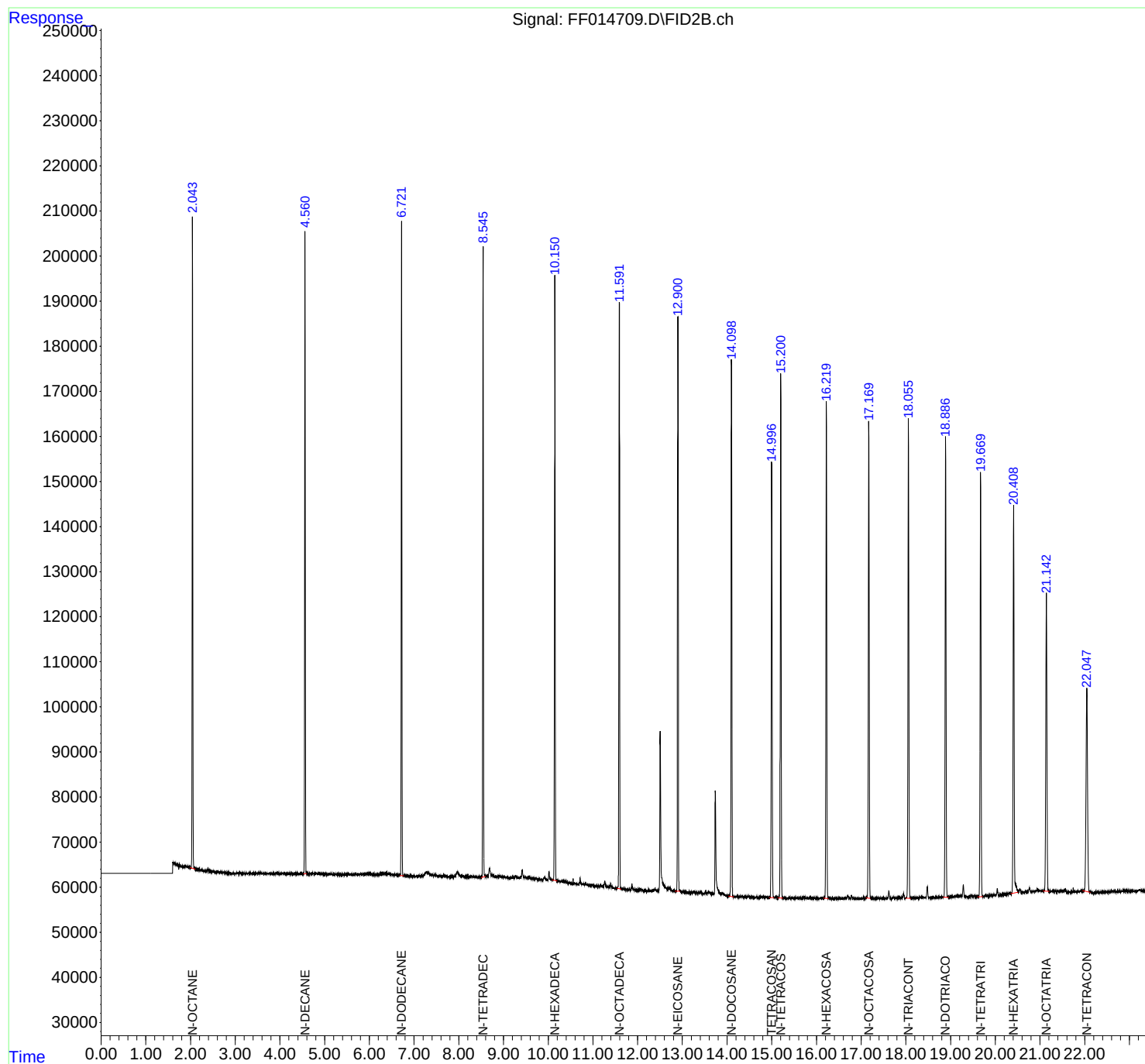
(m)=manual int.

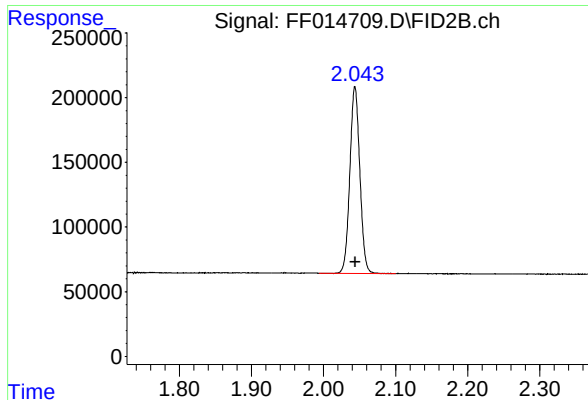
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014709.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 16:46  
Operator : YP\AJ  
Sample : 10 TRPH STD  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
10 TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 21 17:01:40 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Mon Oct 21 17:01:32 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

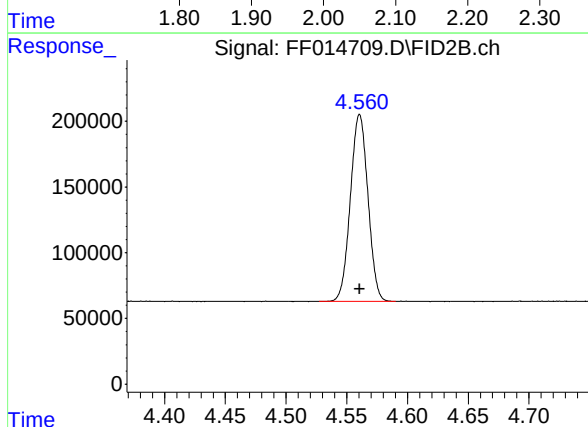




#1 N-OCTANE

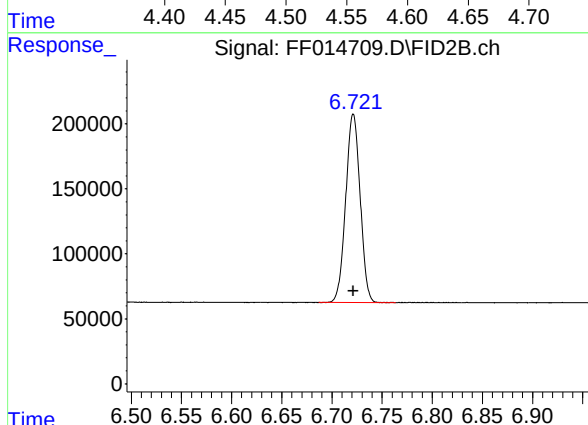
R.T.: 2.044 min  
Delta R.T.: 0.000 min  
Response: 1391050  
Conc: 10.14 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
10 TRPH STD



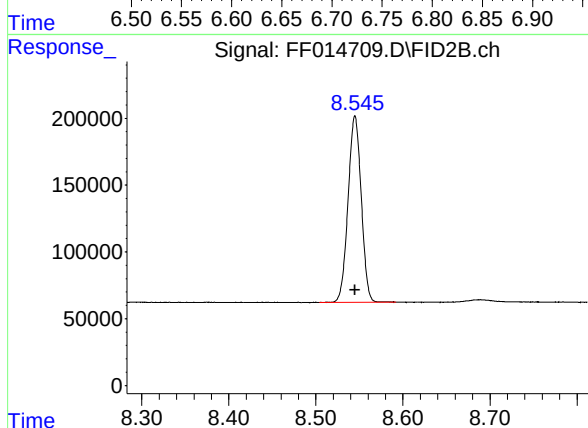
#2 N-DECANE

R.T.: 4.561 min  
Delta R.T.: 0.000 min  
Response: 1431638  
Conc: 10.17 ug/ml



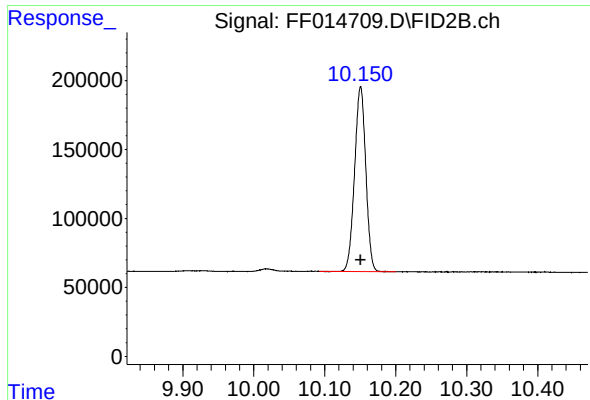
#3 N-DODECANE

R.T.: 6.721 min  
Delta R.T.: 0.000 min  
Response: 1452786  
Conc: 10.16 ug/ml



#4 N-TETRADECANE

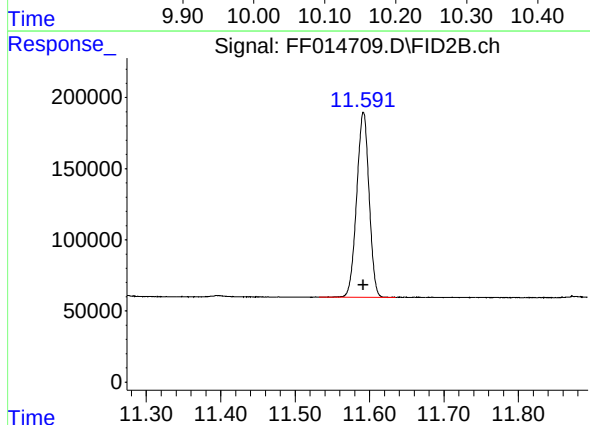
R.T.: 8.545 min  
Delta R.T.: 0.000 min  
Response: 1471114  
Conc: 10.18 ug/ml



#5 N-HEXADECANE

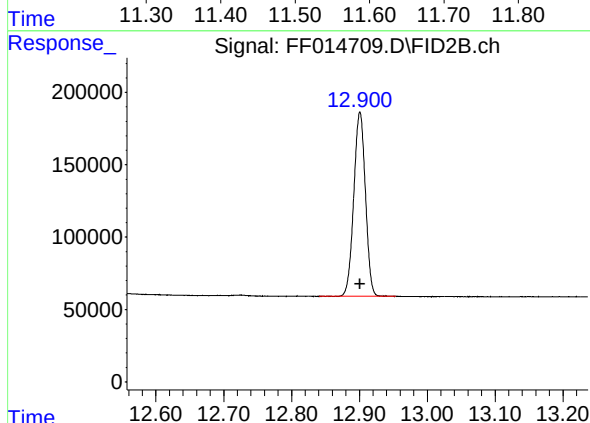
R.T.: 10.151 min  
Delta R.T.: 0.000 min  
Response: 1470544  
Conc: 10.15 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
10 TRPH STD



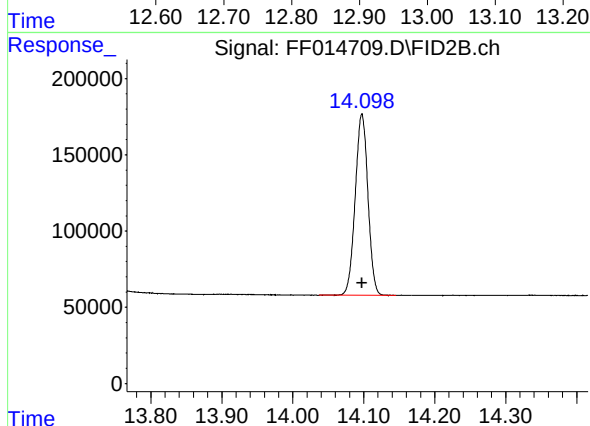
#6 N-OCTADECANE

R.T.: 11.592 min  
Delta R.T.: 0.000 min  
Response: 1506346  
Conc: 10.18 ug/ml



#7 N-EICOSANE

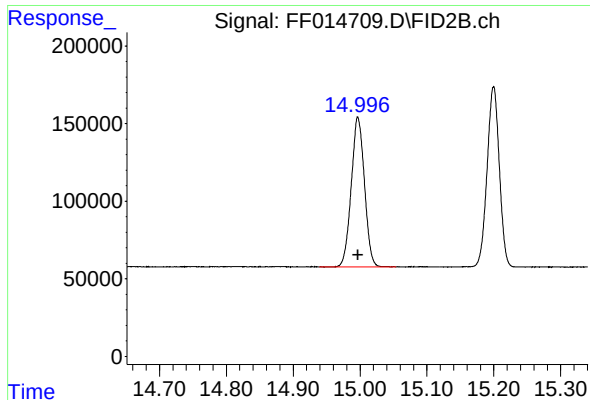
R.T.: 12.901 min  
Delta R.T.: 0.000 min  
Response: 1518951  
Conc: 10.15 ug/ml



#8 N-DOCOSANE

R.T.: 14.097 min  
Delta R.T.: 0.000 min  
Response: 1479666  
Conc: 10.19 ug/ml

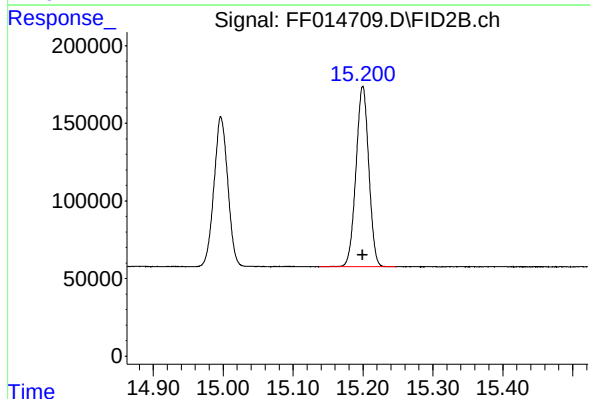




#9 TETRACOSANE-d50 (SURROGATE)

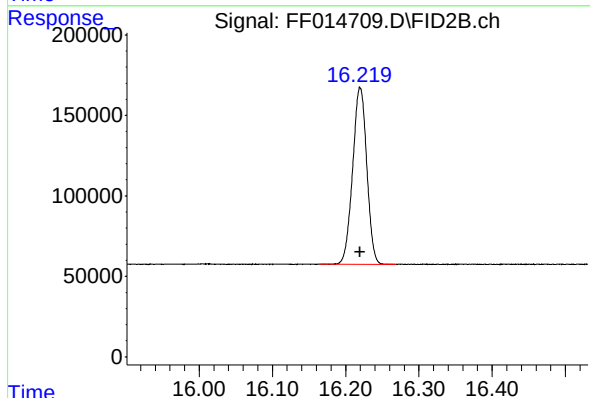
R.T.: 14.997 min  
Delta R.T.: 0.000 min  
Response: 1322603  
Conc: 10.18 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
10 TRPH STD



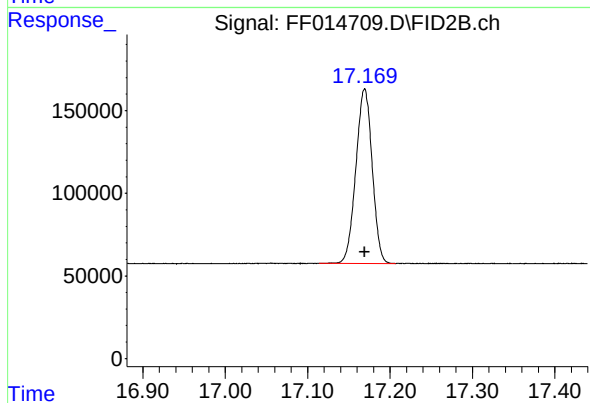
#10 N-TETRACOSANE

R.T.: 15.200 min  
Delta R.T.: 0.000 min  
Response: 1479406  
Conc: 10.20 ug/ml



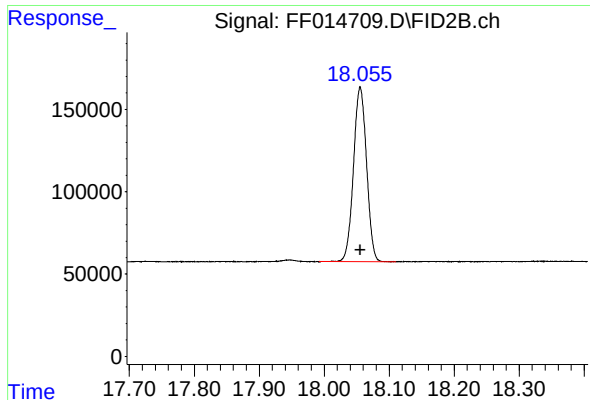
#11 N-HEXACOSANE

R.T.: 16.220 min  
Delta R.T.: 0.000 min  
Response: 1470196  
Conc: 10.20 ug/ml



#12 N-OCTACOSANE

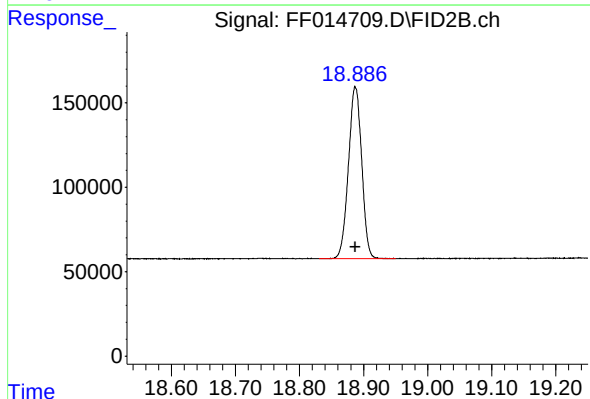
R.T.: 17.169 min  
Delta R.T.: 0.000 min  
Response: 1455486  
Conc: 10.24 ug/ml



#13 N-TRIACONTANE

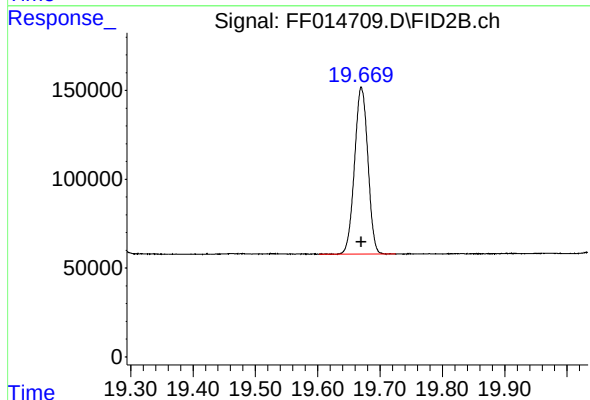
R.T.: 18.055 min  
Delta R.T.: 0.000 min  
Response: 1481698  
Conc: 10.36 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
10 TRPH STD



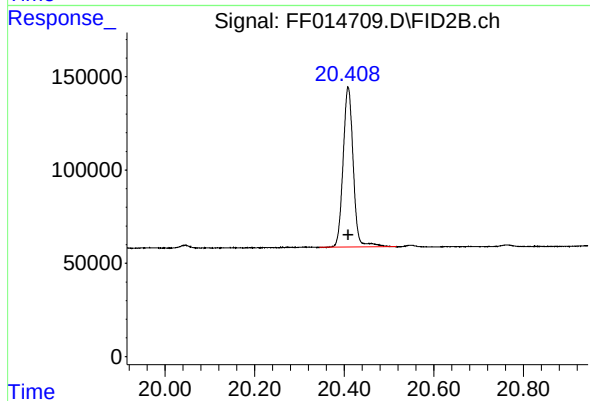
#14 N-DOTRIACONTANE

R.T.: 18.887 min  
Delta R.T.: 0.000 min  
Response: 1460398  
Conc: 10.45 ug/ml



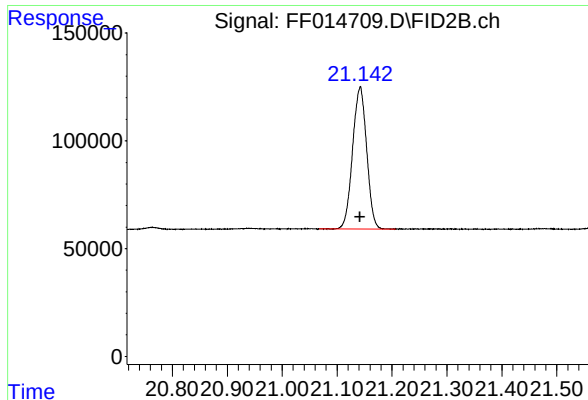
#15 N-TETRATRIACONTANE

R.T.: 19.670 min  
Delta R.T.: 0.000 min  
Response: 1394669  
Conc: 10.42 ug/ml



#16 N-HEXATRIACONTANE

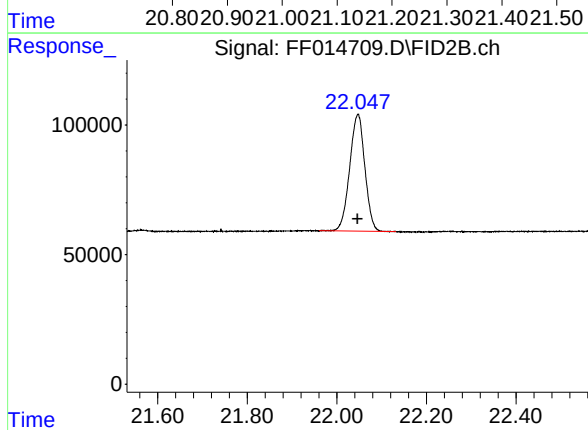
R.T.: 20.409 min  
Delta R.T.: 0.000 min  
Response: 1350478  
Conc: 10.46 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.142 min  
 Delta R.T.: 0.000 min  
 Response: 1172155  
 Conc: 10.37 ug/ml

Instrument :  
 FID\_F  
 ClientSampleId :  
 10 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.047 min  
 Delta R.T.: 0.000 min  
 Response: 1062736  
 Conc: 10.28 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014709.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 16:46  
Sample : 10 TRPH STD  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 2.044       | 1.994        | 2.100      | BB       | 144443         | 1391050      | 91.58%         | 5.483%        |
| 2                       | 4.561       | 4.527        | 4.590      | BB       | 142326         | 1431638      | 94.25%         | 5.643%        |
| 3                       | 6.721       | 6.687        | 6.764      | BB       | 145021         | 1452786      | 95.64%         | 5.726%        |
| 4                       | 8.545       | 8.504        | 8.592      | BB       | 139689         | 1471114      | 96.85%         | 5.798%        |
| 5                       | 10.151      | 10.092       | 10.200     | BB       | 134197         | 1470544      | 96.81%         | 5.796%        |
| 6                       | 11.592      | 11.532       | 11.635     | BB       | 130092         | 1506346      | 99.17%         | 5.937%        |
| 7                       | 12.901      | 12.840       | 12.954     | BB       | 127584         | 1518951      | 100.00%        | 5.987%        |
| 8                       | 14.097      | 14.037       | 14.145     | BB       | 118761         | 1479666      | 97.41%         | 5.832%        |
| 9                       | 14.997      | 14.939       | 15.054     | BB       | 96188          | 1322603      | 87.07%         | 5.213%        |
| 10                      | 15.200      | 15.137       | 15.247     | BB       | 116501         | 1479406      | 97.40%         | 5.831%        |
| 11                      | 16.220      | 16.164       | 16.269     | BB       | 109521         | 1470196      | 96.79%         | 5.795%        |
| 12                      | 17.169      | 17.114       | 17.207     | BB       | 105580         | 1455486      | 95.82%         | 5.737%        |
| 13                      | 18.055      | 17.992       | 18.110     | BB       | 106271         | 1481698      | 97.55%         | 5.840%        |
| 14                      | 18.887      | 18.830       | 18.950     | BB       | 101797         | 1460398      | 96.15%         | 5.756%        |
| 15                      | 19.670      | 19.602       | 19.725     | BB       | 93819          | 1394669      | 91.82%         | 5.497%        |
| 16                      | 20.409      | 20.344       | 20.515     | BB       | 85772          | 1350478      | 88.91%         | 5.323%        |
| 17                      | 21.142      | 21.067       | 21.207     | BB       | 66140          | 1172155      | 77.17%         | 4.620%        |
| 18                      | 22.047      | 21.960       | 22.132     | BB       | 45214          | 1062736      | 69.97%         | 4.189%        |
| Sum of corrected areas: |             |              |            |          |                |              | 25371919       |               |

FF102124.M Tue Oct 22 01:23:44 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014710.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 17:15  
Operator : YP\AJ  
Sample : 5 TRPH STD  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
5 TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 21 17:35:32 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Mon Oct 21 17:35:19 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units  |
|-------------------------------|--------|----------|-------------|
| -----                         |        |          |             |
| System Monitoring Compounds   |        |          |             |
| 9) S TETRACOSANE-d50 (SURR... | 14.996 | 691394   | 5.254 ug/ml |
| Target Compounds              |        |          |             |
| 1) N-OCTANE                   | 2.044  | 735139   | 5.284 ug/ml |
| 2) N-DECANE                   | 4.560  | 756089   | 5.293 ug/ml |
| 3) N-DODECANE                 | 6.722  | 768253   | 5.294 ug/ml |
| 4) N-TETRADECANE              | 8.545  | 775382   | 5.290 ug/ml |
| 5) N-HEXADECANE               | 10.150 | 775794   | 5.279 ug/ml |
| 6) N-OCTADECANE               | 11.591 | 792835   | 5.281 ug/ml |
| 7) N-EICOSANE                 | 12.900 | 800046   | 5.274 ug/ml |
| 8) N-DOCOSANE                 | 14.098 | 773720   | 5.258 ug/ml |
| 10) N-TETRACOSANE             | 15.199 | 774521   | 5.270 ug/ml |
| 11) N-HEXACOSANE              | 16.220 | 769893   | 5.271 ug/ml |
| 12) N-OCTACOSANE              | 17.169 | 769883   | 5.328 ug/ml |
| 13) N-TRIACONTANE             | 18.055 | 798876   | 5.457 ug/ml |
| 14) N-DOTRIACONTANE           | 18.887 | 801393   | 5.570 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.670 | 752249   | 5.485 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.409 | 661136   | 5.096 ug/ml |
| 17) N-OCTATRIACONTANE         | 21.142 | 614859   | 5.346 ug/ml |
| 18) N-TETRACONTANE            | 22.046 | 557917   | 5.314 ug/ml |
| -----                         |        |          |             |

(f)=RT Delta > 1/2 Window

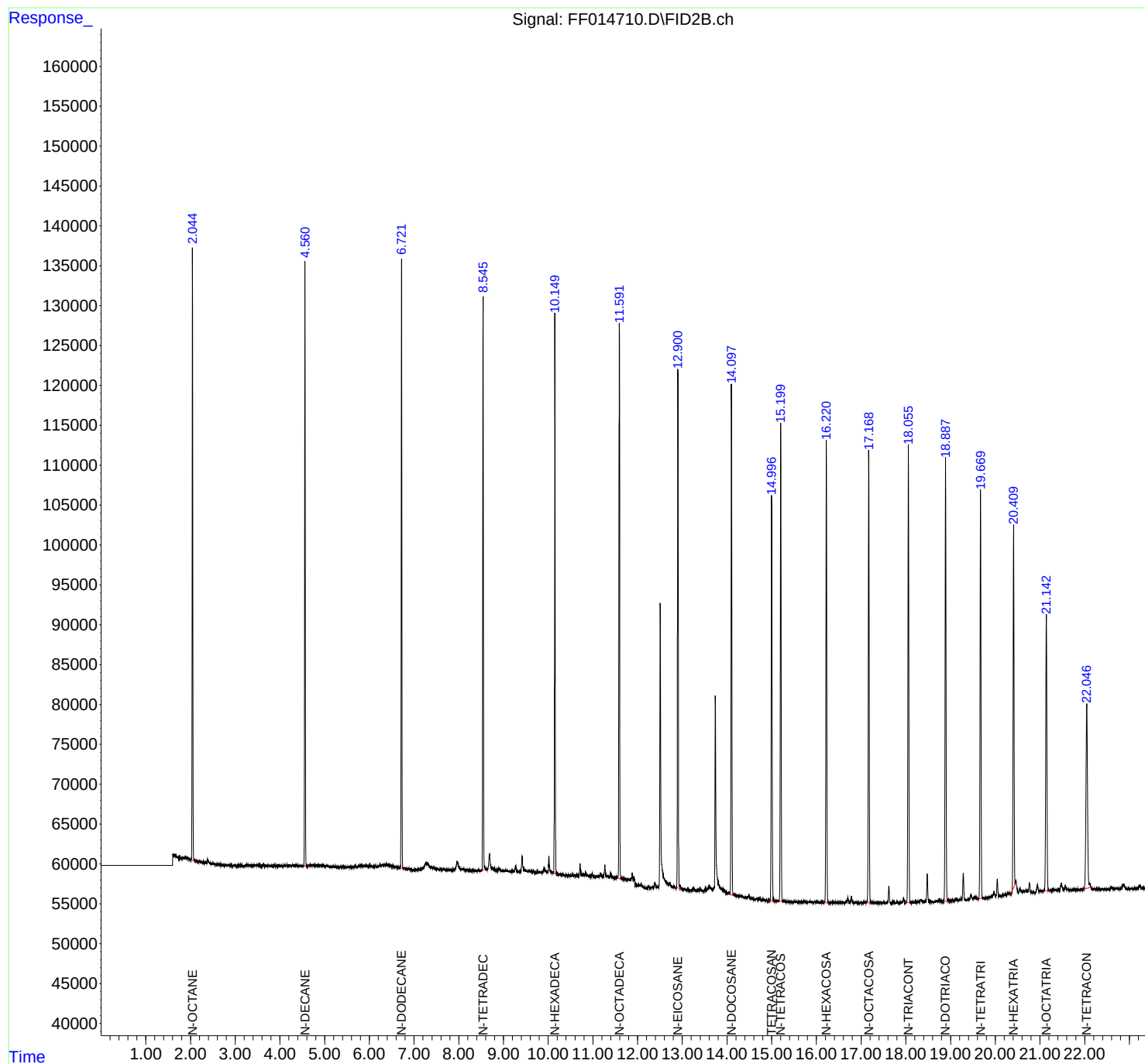
(m)=manual int.

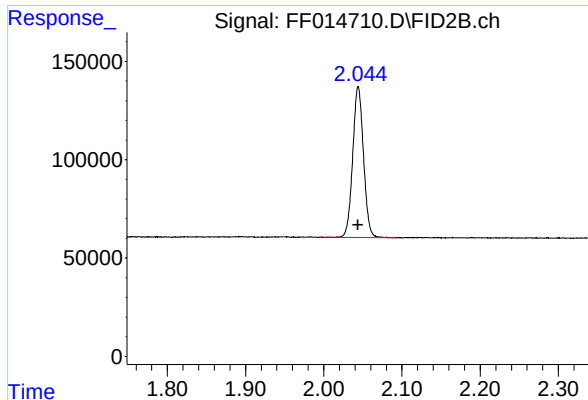
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014710.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 17:15  
Operator : YP\AJ  
Sample : 5 TRPH STD  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
5 TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 21 17:35:32 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Mon Oct 21 17:35:19 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

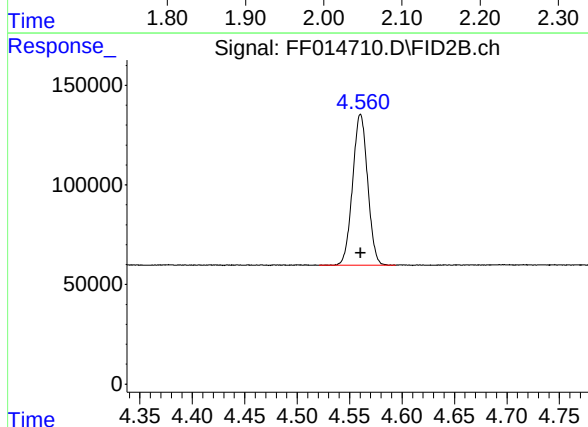




#1 N-OCTANE

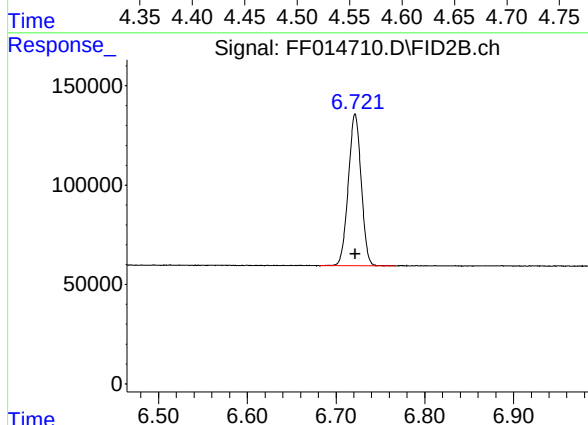
R.T.: 2.044 min  
Delta R.T.: 0.000 min  
Response: 735139  
Conc: 5.28 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 TRPH STD



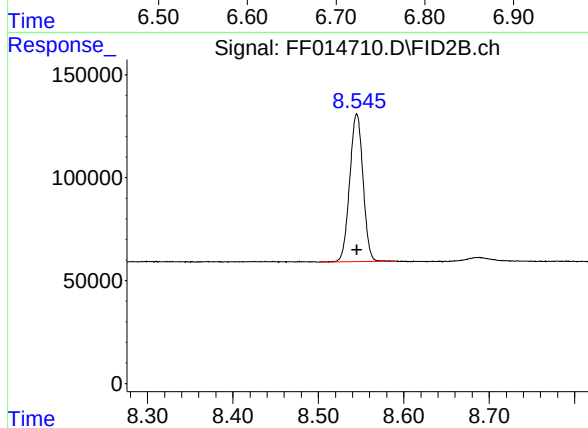
#2 N-DECANE

R.T.: 4.560 min  
Delta R.T.: 0.000 min  
Response: 756089  
Conc: 5.29 ug/ml



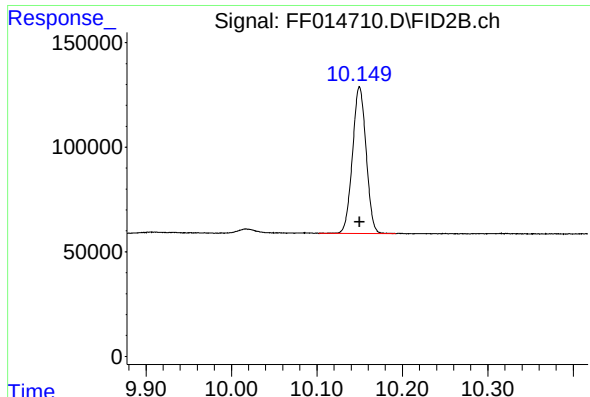
#3 N-DODECANE

R.T.: 6.722 min  
Delta R.T.: 0.000 min  
Response: 768253  
Conc: 5.29 ug/ml



#4 N-TETRADECANE

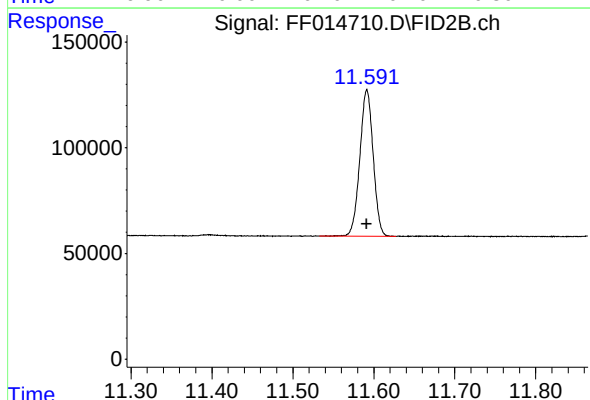
R.T.: 8.545 min  
Delta R.T.: 0.000 min  
Response: 775382  
Conc: 5.29 ug/ml



#5 N-HEXADECANE

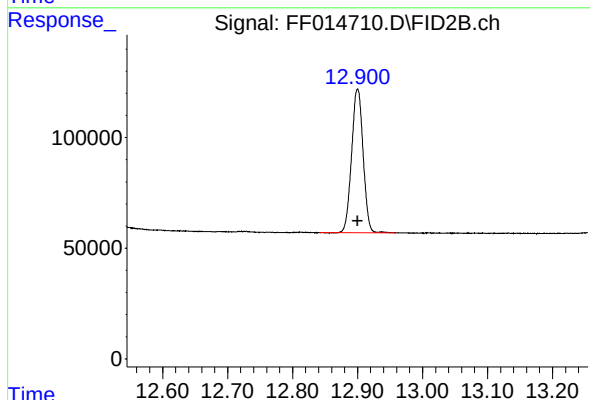
R.T.: 10.150 min  
Delta R.T.: 0.000 min  
Response: 775794  
Conc: 5.28 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 TRPH STD



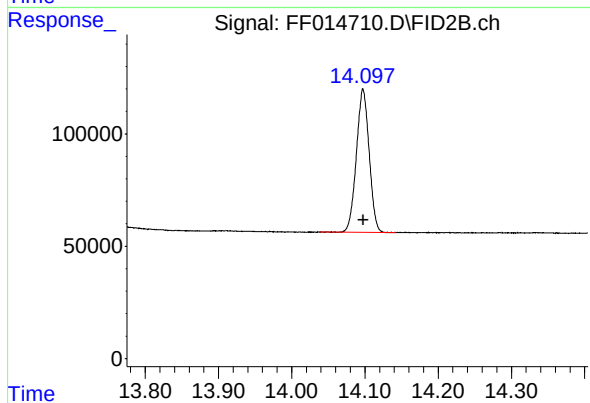
#6 N-OCTADECANE

R.T.: 11.591 min  
Delta R.T.: 0.000 min  
Response: 792835  
Conc: 5.28 ug/ml



#7 N-EICOSANE

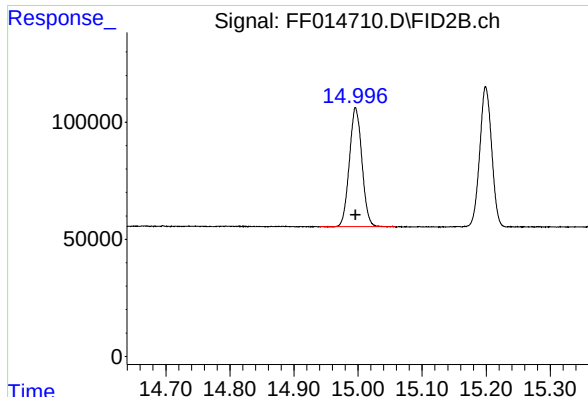
R.T.: 12.900 min  
Delta R.T.: 0.000 min  
Response: 800046  
Conc: 5.27 ug/ml



#8 N-DOCOSANE

R.T.: 14.098 min  
Delta R.T.: 0.000 min  
Response: 773720  
Conc: 5.26 ug/ml

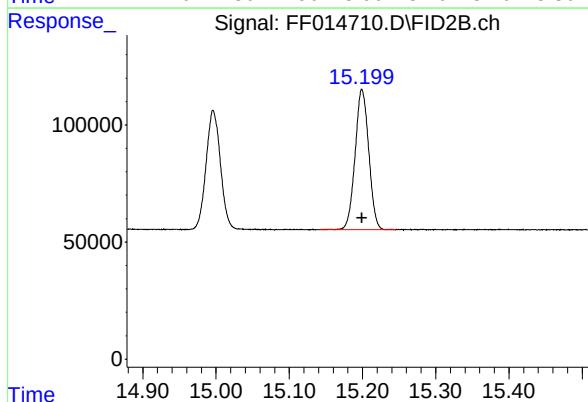




#9 TETRACOSANE-d50 (SURROGATE)

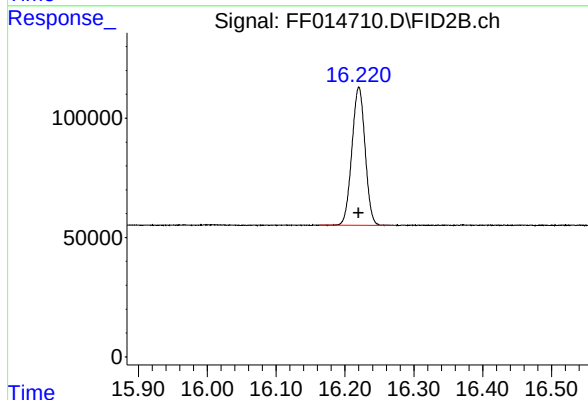
R.T.: 14.996 min  
Delta R.T.: 0.000 min  
Response: 691394  
Conc: 5.25 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 TRPH STD



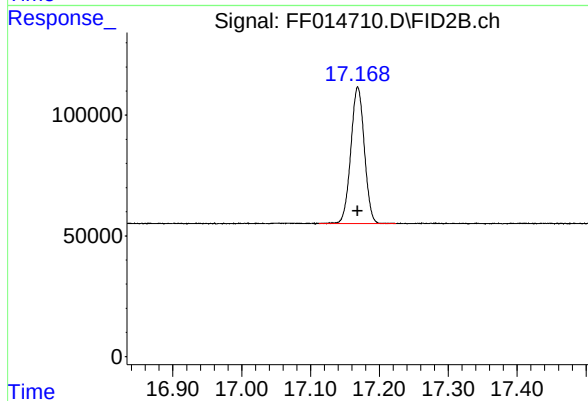
#10 N-TETRACOSANE

R.T.: 15.199 min  
Delta R.T.: 0.000 min  
Response: 774521  
Conc: 5.27 ug/ml



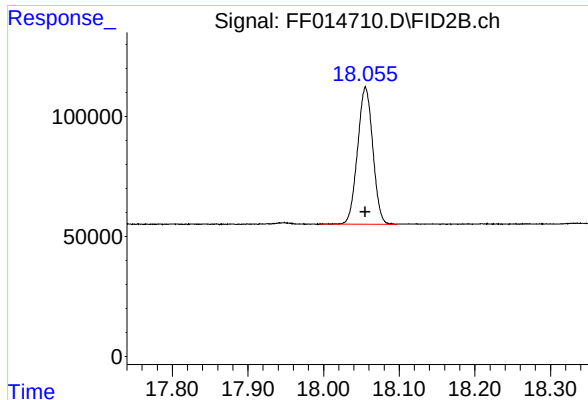
#11 N-HEXACOSANE

R.T.: 16.220 min  
Delta R.T.: 0.000 min  
Response: 769893  
Conc: 5.27 ug/ml



#12 N-OCTACOSANE

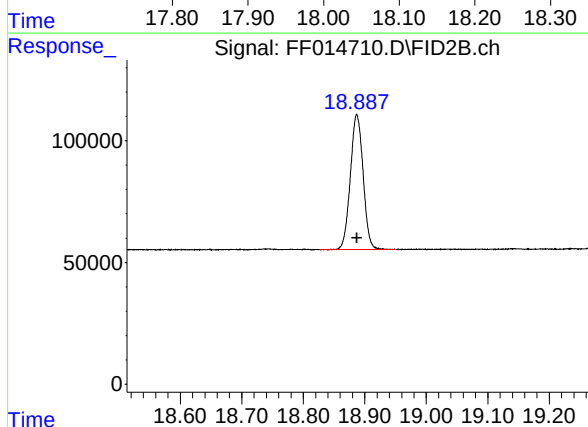
R.T.: 17.169 min  
Delta R.T.: 0.000 min  
Response: 769883  
Conc: 5.33 ug/ml



#13 N-TRIACONTANE

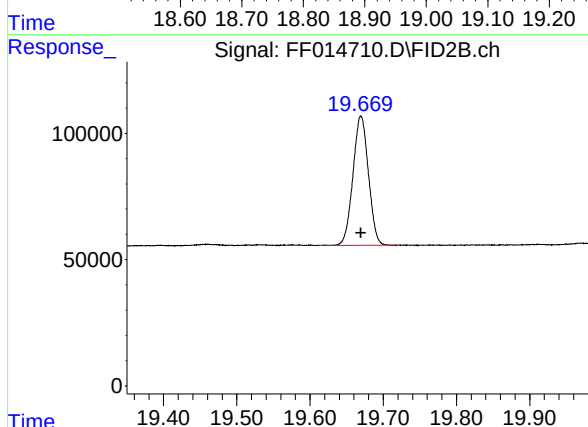
R.T.: 18.055 min  
Delta R.T.: 0.000 min  
Response: 798876  
Conc: 5.46 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 TRPH STD



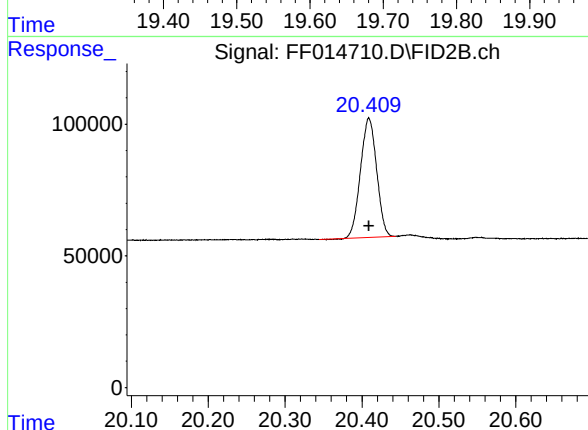
#14 N-DOTRIACONTANE

R.T.: 18.887 min  
Delta R.T.: 0.000 min  
Response: 801393  
Conc: 5.57 ug/ml



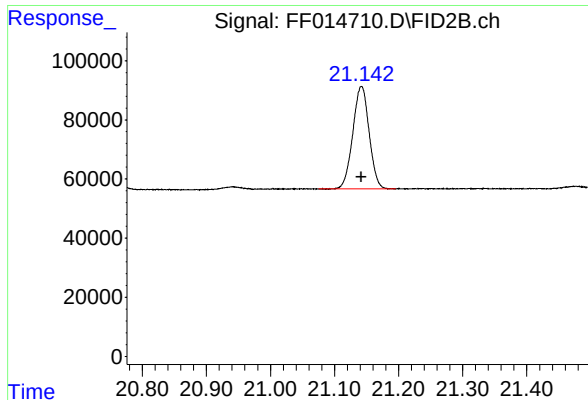
#15 N-TETRATRIACONTANE

R.T.: 19.670 min  
Delta R.T.: 0.000 min  
Response: 752249  
Conc: 5.49 ug/ml



#16 N-HEXATRIACONTANE

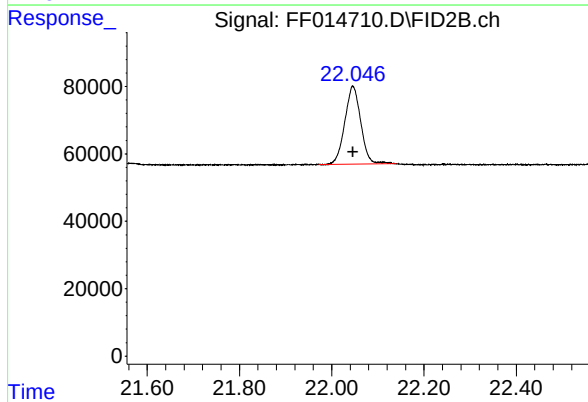
R.T.: 20.409 min  
Delta R.T.: 0.000 min  
Response: 661136  
Conc: 5.10 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.142 min  
Delta R.T.: 0.000 min  
Response: 614859  
Conc: 5.35 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.046 min  
Delta R.T.: 0.000 min  
Response: 557917  
Conc: 5.31 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014710.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 17:15  
Sample : 5 TRPH STD  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 2.044       | 1.994        | 2.092      | BB       | 76698          | 735139       | 91.73%         | 5.499%        |
| 2                       | 4.560       | 4.521        | 4.594      | BB       | 75833          | 756089       | 94.35%         | 5.655%        |
| 3                       | 6.722       | 6.681        | 6.767      | BB       | 76356          | 768253       | 95.86%         | 5.746%        |
| 4                       | 8.545       | 8.501        | 8.591      | BB       | 71832          | 775382       | 96.75%         | 5.800%        |
| 5                       | 10.150      | 10.102       | 10.192     | BB       | 70024          | 775794       | 96.81%         | 5.803%        |
| 6                       | 11.591      | 11.532       | 11.627     | BB       | 69155          | 792835       | 98.93%         | 5.930%        |
| 7                       | 12.900      | 12.841       | 12.959     | BB       | 64959          | 800046       | 99.83%         | 5.984%        |
| 8                       | 14.098      | 14.037       | 14.142     | BB       | 63877          | 773720       | 96.55%         | 5.787%        |
| 9                       | 14.996      | 14.939       | 15.059     | BB       | 50817          | 691394       | 86.27%         | 5.171%        |
| 10                      | 15.199      | 15.141       | 15.246     | BB       | 59864          | 774521       | 96.65%         | 5.793%        |
| 11                      | 16.220      | 16.162       | 16.274     | BB       | 58016          | 769893       | 96.07%         | 5.759%        |
| 12                      | 17.169      | 17.112       | 17.224     | BB       | 56438          | 769883       | 96.07%         | 5.759%        |
| 13                      | 18.055      | 17.994       | 18.096     | BB       | 57244          | 798876       | 99.69%         | 5.975%        |
| 14                      | 18.887      | 18.826       | 18.951     | BB       | 55492          | 801393       | 100.00%        | 5.994%        |
| 15                      | 19.670      | 19.612       | 19.717     | BB       | 51231          | 752249       | 93.87%         | 5.627%        |
| 16                      | 20.409      | 20.344       | 20.444     | BV       | 45303          | 661136       | 82.50%         | 4.945%        |
| 17                      | 21.142      | 21.076       | 21.196     | BB       | 34712          | 614859       | 76.72%         | 4.599%        |
| 18                      | 22.046      | 21.972       | 22.139     | BB       | 23121          | 557917       | 69.62%         | 4.173%        |
| Sum of corrected areas: |             |              |            |          |                |              | 13369378       |               |

FF102124.M Tue Oct 22 01:24:03 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014711.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 17:44  
Operator : YP\AJ  
Sample : FF102124ICV  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
FF102124ICV

Integration File: autoint1.e  
Quant Time: Oct 22 08:36:15 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 15.001 | 6320920  | 48.030 ug/ml |
| Target Compounds              |        |          |              |
| 1) N-OCTANE                   | 2.042  | 6688337  | 48.071 ug/ml |
| 2) N-DECANE                   | 4.562  | 6865268  | 48.058 ug/ml |
| 3) N-DODECANE                 | 6.725  | 6977659  | 48.084 ug/ml |
| 4) N-TETRADECANE              | 8.549  | 7046711  | 48.072 ug/ml |
| 5) N-HEXADECANE               | 10.154 | 7074200  | 48.140 ug/ml |
| 6) N-OCTADECANE               | 11.596 | 7208290  | 48.014 ug/ml |
| 7) N-EICOSANE                 | 12.906 | 7293038  | 48.075 ug/ml |
| 8) N-DOCOSANE                 | 14.103 | 7073930  | 48.073 ug/ml |
| 10) N-TETRACOSANE             | 15.205 | 7065898  | 48.077 ug/ml |
| 11) N-HEXACOSANE              | 16.225 | 7025444  | 48.099 ug/ml |
| 12) N-OCTACOSANE              | 17.174 | 6938938  | 48.023 ug/ml |
| 13) N-TRIACONTANE             | 18.061 | 6944995  | 47.442 ug/ml |
| 14) N-DOTRIACONTANE           | 18.893 | 6772290  | 47.074 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.676 | 6515975  | 47.512 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.414 | 6058417  | 46.700 ug/ml |
| 17) N-OCTATRIACONTANE         | 21.147 | 5557472  | 48.319 ug/ml |
| 18) N-TETRACONTANE            | 22.054 | 5137662  | 48.932 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

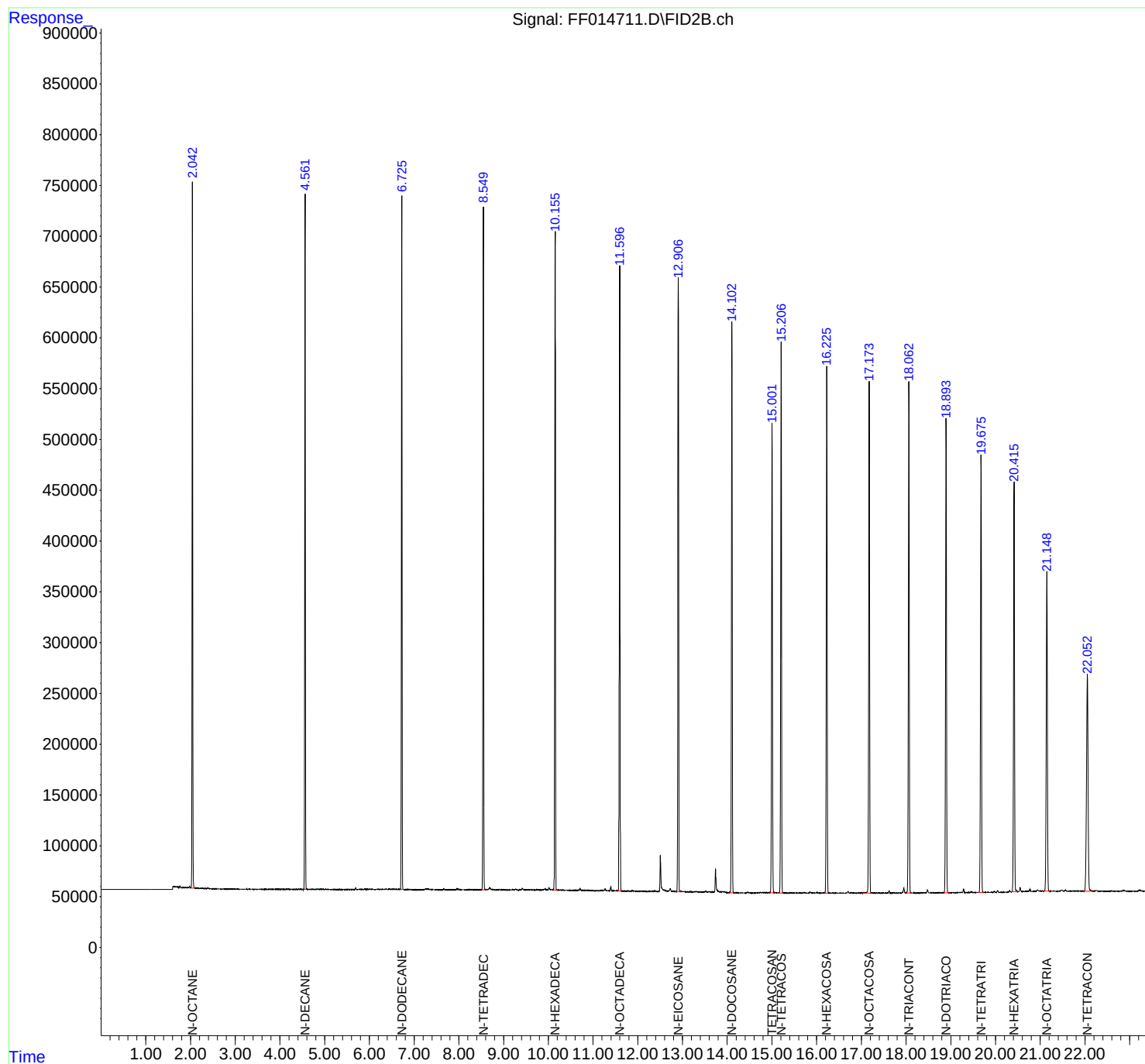
(m)=manual int.

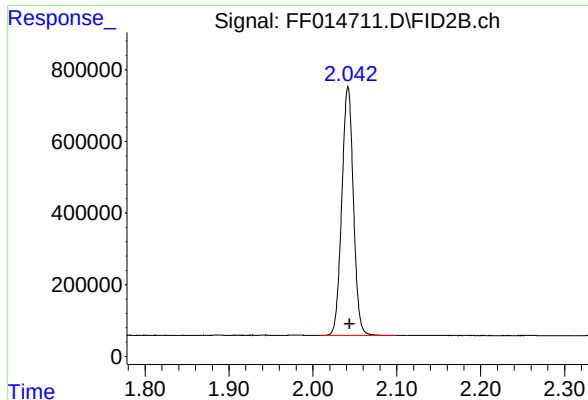
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014711.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 17:44  
Operator : YP\AJ  
Sample : FF102124ICV  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
FF102124ICV

Integration File: autoint1.e  
Quant Time: Oct 22 08:36:15 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

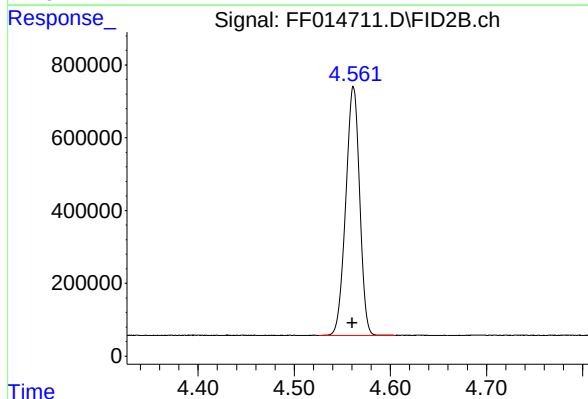




#1 N-OCTANE

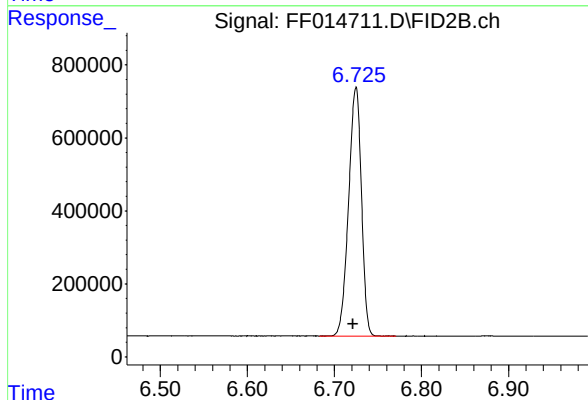
R.T.: 2.042 min  
Delta R.T.: -0.002 min  
Response: 6688337  
Conc: 48.07 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
FF102124ICV



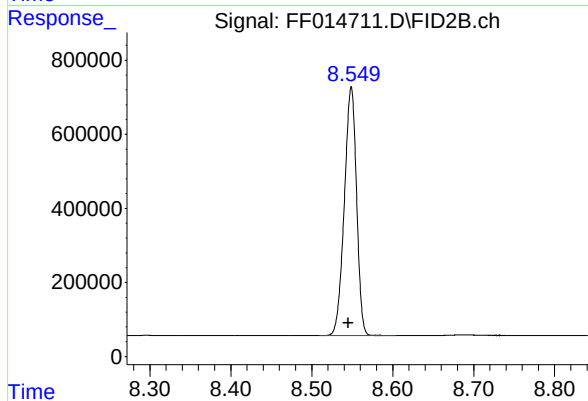
#2 N-DECANE

R.T.: 4.562 min  
Delta R.T.: 0.000 min  
Response: 6865268  
Conc: 48.06 ug/ml



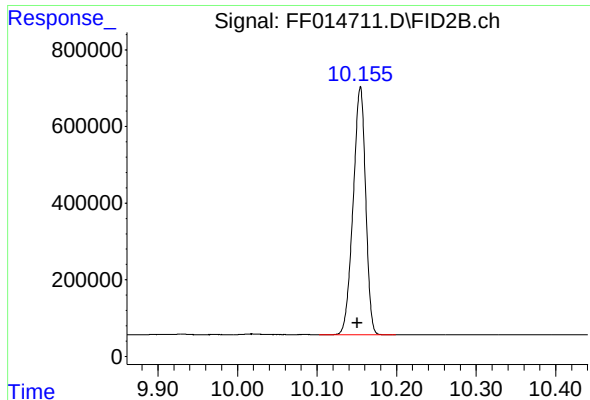
#3 N-DODECANE

R.T.: 6.725 min  
Delta R.T.: 0.003 min  
Response: 6977659  
Conc: 48.08 ug/ml



#4 N-TETRADECANE

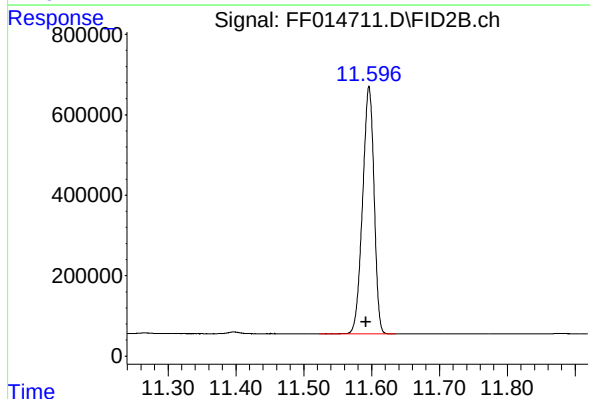
R.T.: 8.549 min  
Delta R.T.: 0.004 min  
Response: 7046711  
Conc: 48.07 ug/ml



#5 N-HEXADECANE

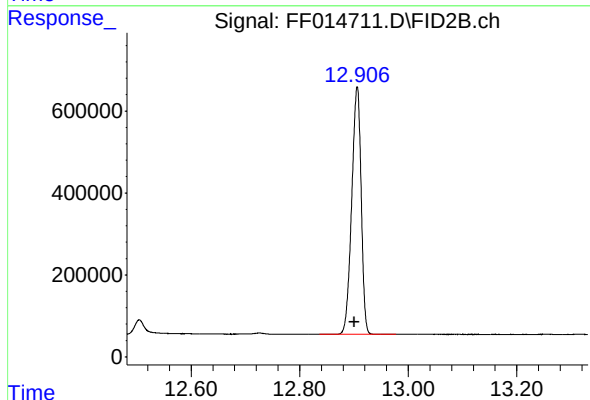
R.T.: 10.154 min  
Delta R.T.: 0.004 min  
Response: 7074200  
Conc: 48.14 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
FF102124ICV



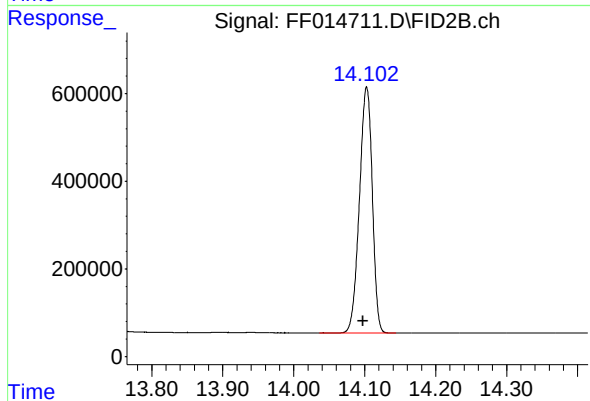
#6 N-OCTADECANE

R.T.: 11.596 min  
Delta R.T.: 0.004 min  
Response: 7208290  
Conc: 48.01 ug/ml



#7 N-EICOSANE

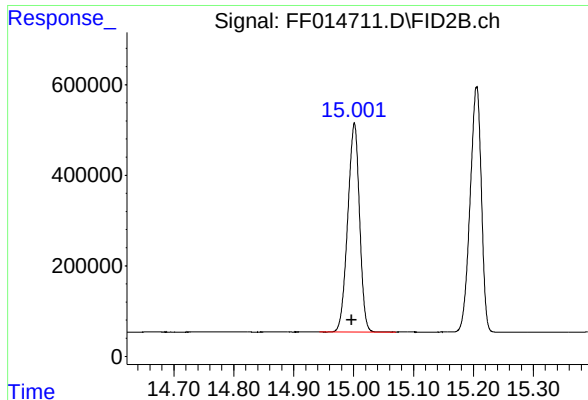
R.T.: 12.906 min  
Delta R.T.: 0.005 min  
Response: 7293038  
Conc: 48.07 ug/ml



#8 N-DOCOSANE

R.T.: 14.103 min  
Delta R.T.: 0.005 min  
Response: 7073930  
Conc: 48.07 ug/ml

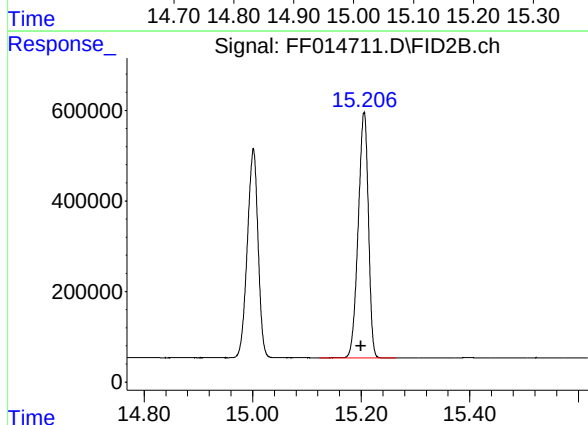




#9 TETRACOSANE-d50 (SURROGATE)

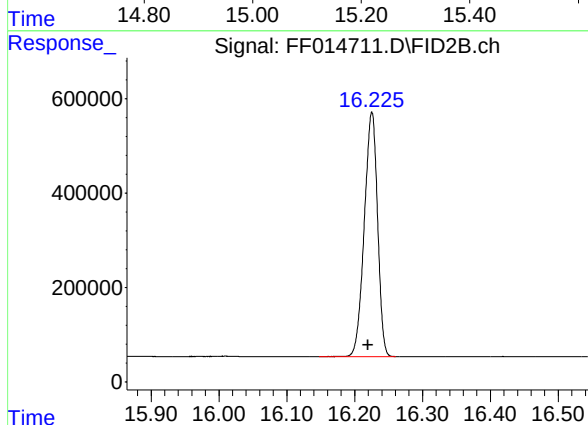
R.T.: 15.001 min  
Delta R.T.: 0.004 min  
Response: 6320920  
Conc: 48.03 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
FF102124ICV



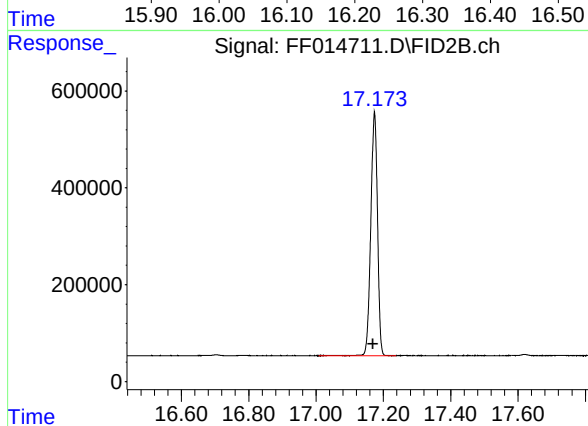
#10 N-TETRACOSANE

R.T.: 15.205 min  
Delta R.T.: 0.005 min  
Response: 7065898  
Conc: 48.08 ug/ml



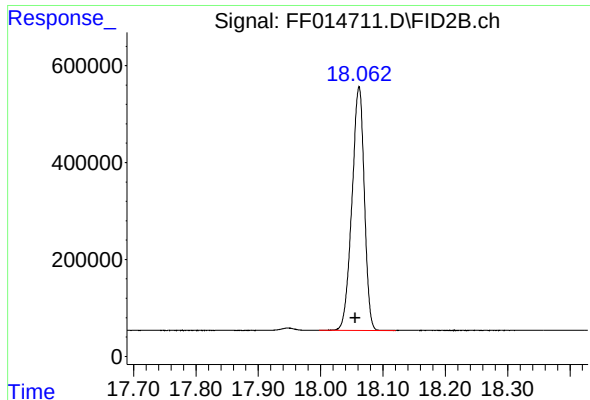
#11 N-HEXACOSANE

R.T.: 16.225 min  
Delta R.T.: 0.005 min  
Response: 7025444  
Conc: 48.10 ug/ml



#12 N-OCTACOSANE

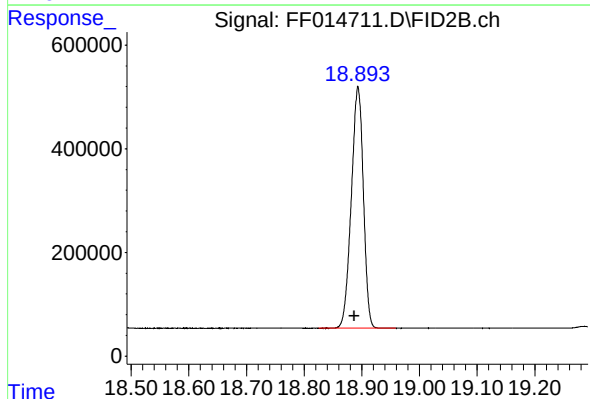
R.T.: 17.174 min  
Delta R.T.: 0.004 min  
Response: 6938938  
Conc: 48.02 ug/ml



#13 N-TRIACONTANE

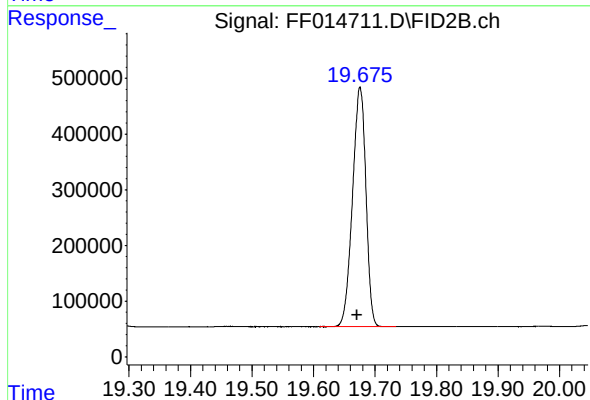
R.T.: 18.061 min  
Delta R.T.: 0.006 min  
Response: 6944995  
Conc: 47.44 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
FF102124ICV



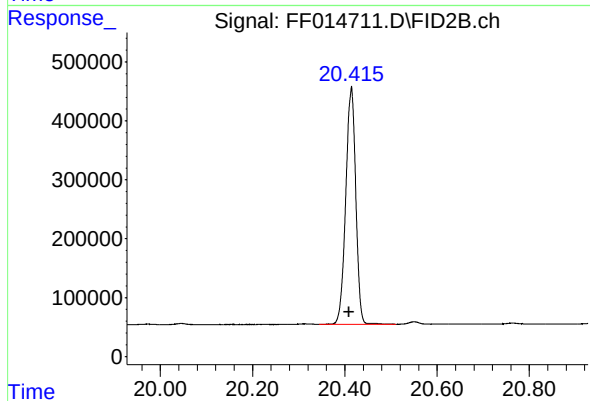
#14 N-DOTRIACONTANE

R.T.: 18.893 min  
Delta R.T.: 0.006 min  
Response: 6772290  
Conc: 47.07 ug/ml



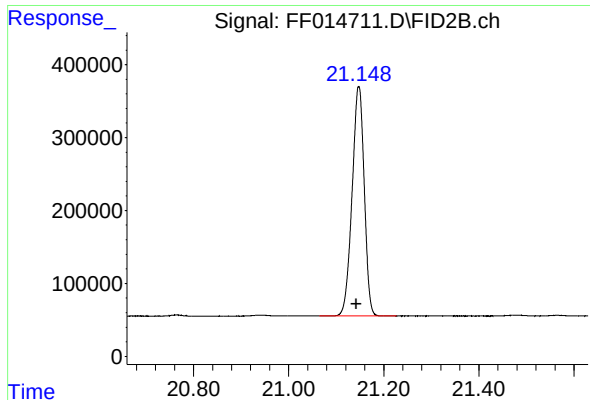
#15 N-TETRATRIACONTANE

R.T.: 19.676 min  
Delta R.T.: 0.005 min  
Response: 6515975  
Conc: 47.51 ug/ml



#16 N-HEXATRIACONTANE

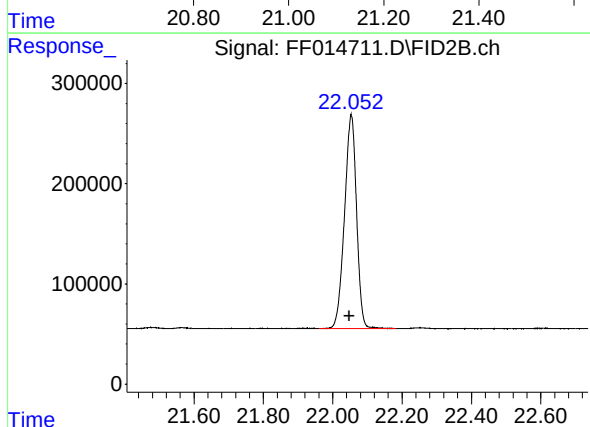
R.T.: 20.414 min  
Delta R.T.: 0.005 min  
Response: 6058417  
Conc: 46.70 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.147 min  
Delta R.T.: 0.006 min  
Response: 5557472  
Conc: 48.32 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
FF102124ICV



#18 N-TETRACONTANE

R.T.: 22.054 min  
Delta R.T.: 0.006 min  
Response: 5137662  
Conc: 48.93 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102124\  
Data File : FF014711.D  
Signal(s) : FID2B.ch  
Acq On : 21 Oct 2024 17:44  
Sample : FF102124ICV  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 2.042       | 2.007        | 2.099      | BB       | 696414         | 6688337      | 91.71%         | 5.547%        |
| 2                       | 4.562       | 4.526        | 4.606      | BB       | 683926         | 6865268      | 94.13%         | 5.694%        |
| 3                       | 6.725       | 6.682        | 6.771      | BB       | 680524         | 6977659      | 95.68%         | 5.787%        |
| 4                       | 8.549       | 8.509        | 8.604      | BB       | 673720         | 7046711      | 96.62%         | 5.845%        |
| 5                       | 10.154      | 10.102       | 10.199     | BB       | 646114         | 7074200      | 97.00%         | 5.868%        |
| 6                       | 11.596      | 11.522       | 11.636     | BB       | 614857         | 7208290      | 98.84%         | 5.979%        |
| 7                       | 12.906      | 12.836       | 12.977     | BB       | 605809         | 7293038      | 100.00%        | 6.049%        |
| 8                       | 14.103      | 14.036       | 14.144     | BB       | 562179         | 7073930      | 97.00%         | 5.867%        |
| 9                       | 15.001      | 14.942       | 15.071     | BB       | 461889         | 6320920      | 86.67%         | 5.243%        |
| 10                      | 15.205      | 15.122       | 15.264     | BB       | 542671         | 7065898      | 96.89%         | 5.861%        |
| 11                      | 16.225      | 16.147       | 16.261     | BB       | 518720         | 7025444      | 96.33%         | 5.827%        |
| 12                      | 17.174      | 17.009       | 17.237     | BB       | 503882         | 6938938      | 95.14%         | 5.755%        |
| 13                      | 18.061      | 17.997       | 18.121     | BB       | 502039         | 6944995      | 95.23%         | 5.760%        |
| 14                      | 18.893      | 18.826       | 18.959     | BB       | 466196         | 6772290      | 92.86%         | 5.617%        |
| 15                      | 19.676      | 19.609       | 19.734     | BB       | 430021         | 6515975      | 89.35%         | 5.405%        |
| 16                      | 20.414      | 20.344       | 20.511     | BB       | 402366         | 6058417      | 83.07%         | 5.025%        |
| 17                      | 21.147      | 21.064       | 21.226     | BB       | 314456         | 5557472      | 76.20%         | 4.610%        |
| 18                      | 22.054      | 21.961       | 22.182     | BB       | 212181         | 5137662      | 70.45%         | 4.261%        |
| Sum of corrected areas: |             |              |            |          |                | 120565445    |                |               |

FF102124.M Tue Oct 22 01:24:31 2024

**DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY**

**50 PPM TRPH STD**

Lab Name: Chemtech Contract: CHEM02  
ProjectID: NJ Soil PT  
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495  
DataFile: FF014757.D Analyst Name: YP\AJ Analyst Date: 10-24-2024

| Conc. (PPM) | Area Count | RF     | Average RF | %D    |
|-------------|------------|--------|------------|-------|
| 500         | 74772222   | 149544 | 146801     | 1.869 |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014757.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 12:59  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :

Integration File: autoint1.e  
Quant Time: Oct 25 04:36:06 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 15.014 | 6697885  | 50.895 ug/ml |
| Target Compounds              |        |          |              |
| 2) N-DECANE                   | 4.571  | 7407274  | 51.852 ug/ml |
| 3) N-DODECANE                 | 6.735  | 7497124  | 51.663 ug/ml |
| 4) N-TETRADECANE              | 8.560  | 7529901  | 51.369 ug/ml |
| 5) N-HEXADECANE               | 10.166 | 7544750  | 51.342 ug/ml |
| 6) N-OCTADECANE               | 11.608 | 7654653  | 50.987 ug/ml |
| 7) N-EICOSANE                 | 12.917 | 7704655  | 50.788 ug/ml |
| 8) N-DOCOSANE                 | 14.114 | 7443920  | 50.587 ug/ml |
| 10) N-TETRACOSANE             | 15.218 | 7409114  | 50.413 ug/ml |
| 11) N-HEXACOSANE              | 16.238 | 7318384  | 50.105 ug/ml |
| 12) N-OCTACOSANE              | 17.187 | 7262447  | 50.262 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

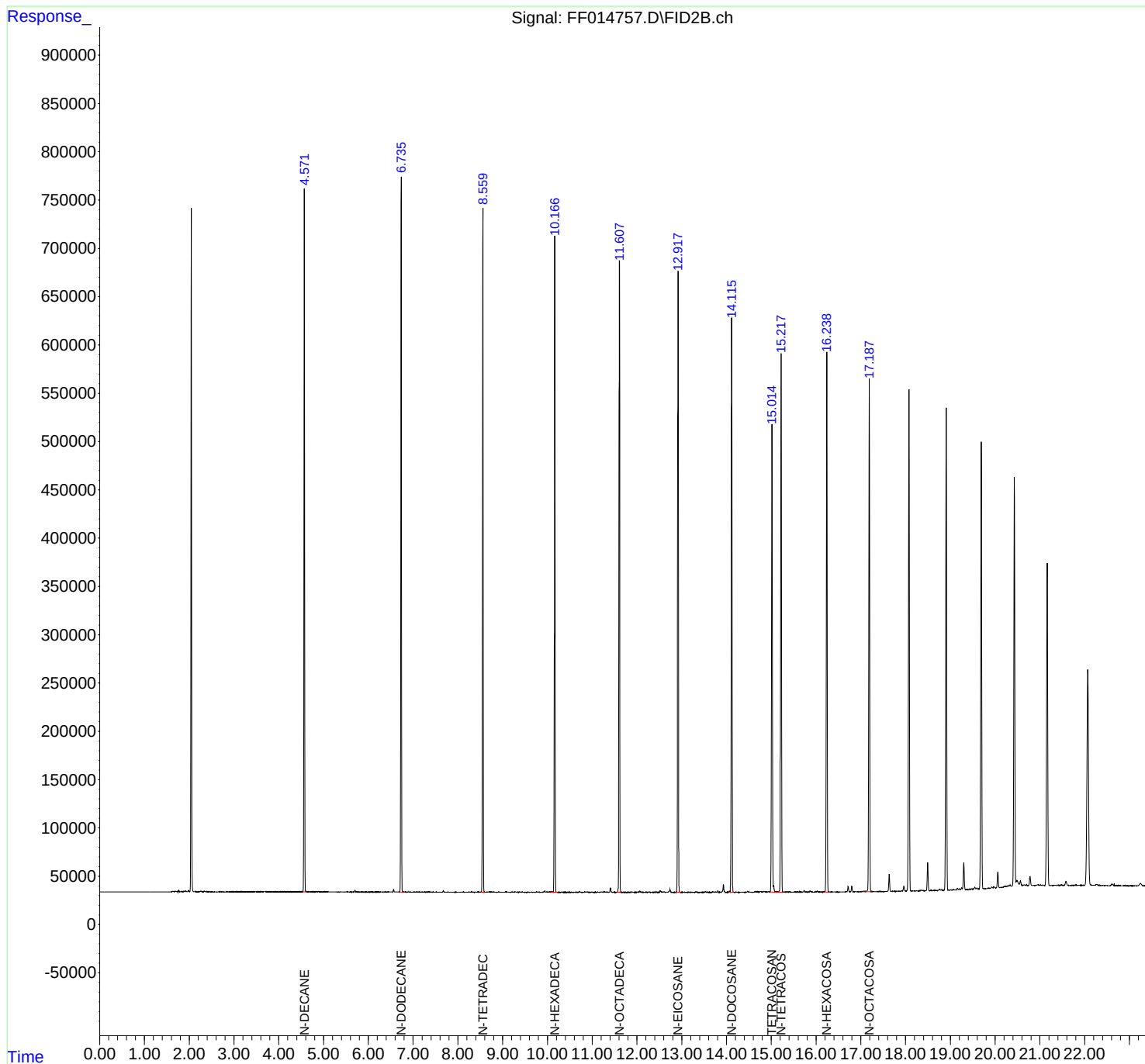
(m)=manual int.

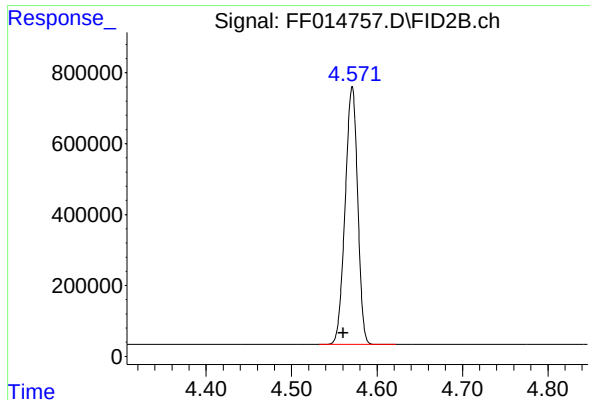
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014757.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 12:59  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :

Integration File: autoint1.e  
Quant Time: Oct 25 04:36:06 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





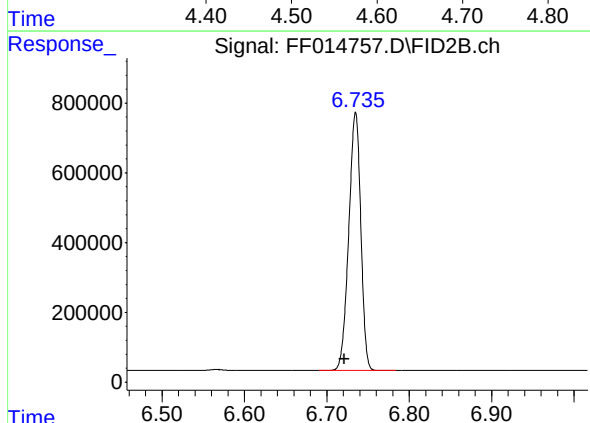
#2 N-DECANE

R.T.: 4.571 min  
Delta R.T.: 0.010 min  
Response: 7407274  
Conc: 51.85 ug/ml

Instrument :

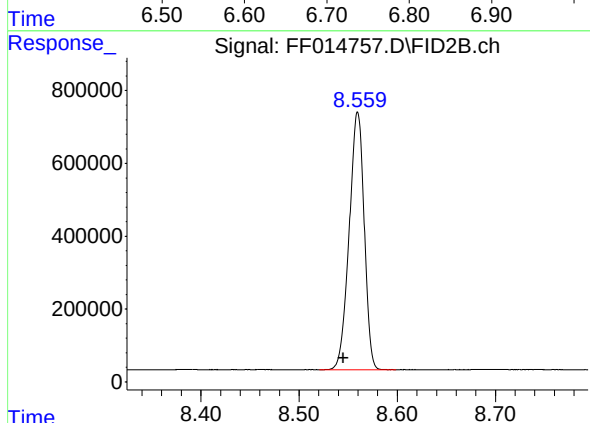
FID\_F

ClientSampleId :



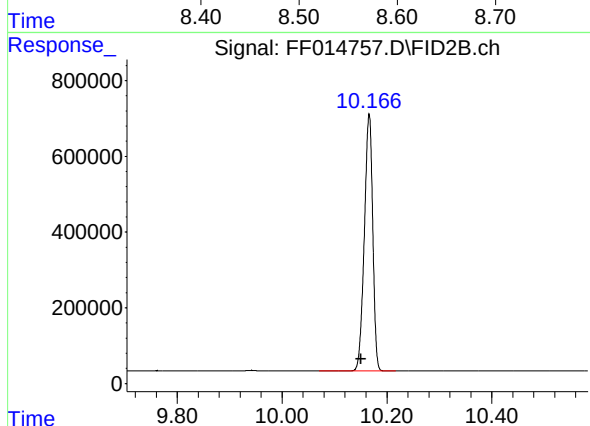
#3 N-DODECANE

R.T.: 6.735 min  
Delta R.T.: 0.013 min  
Response: 7497124  
Conc: 51.66 ug/ml



#4 N-TETRADECANE

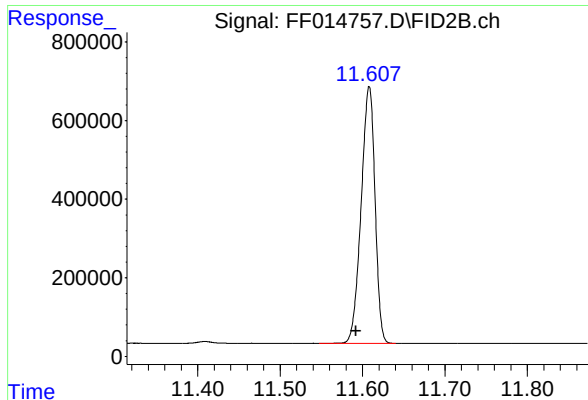
R.T.: 8.560 min  
Delta R.T.: 0.015 min  
Response: 7529901  
Conc: 51.37 ug/ml



#5 N-HEXADECANE

R.T.: 10.166 min  
Delta R.T.: 0.015 min  
Response: 7544750  
Conc: 51.34 ug/ml





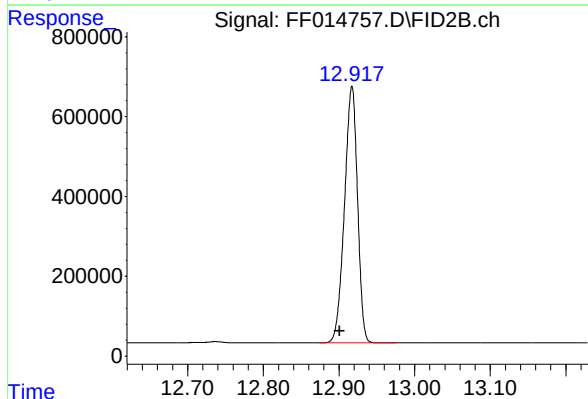
#6 N-OCTADECANE

R.T.: 11.608 min  
Delta R.T.: 0.016 min  
Response: 7654653  
Conc: 50.99 ug/ml

Instrument :

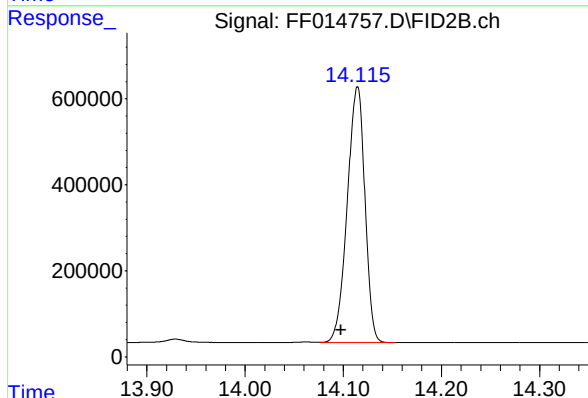
FID\_F

ClientSampleId :



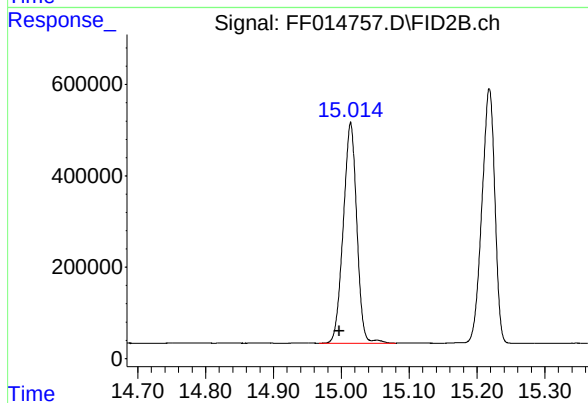
#7 N-EICOSANE

R.T.: 12.917 min  
Delta R.T.: 0.016 min  
Response: 7704655  
Conc: 50.79 ug/ml



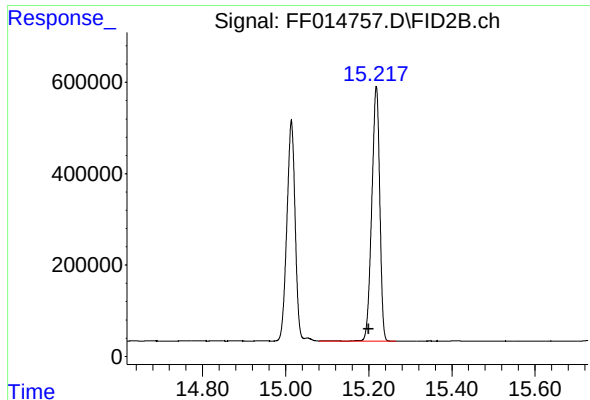
#8 N-DOCOSANE

R.T.: 14.114 min  
Delta R.T.: 0.017 min  
Response: 7443920  
Conc: 50.59 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

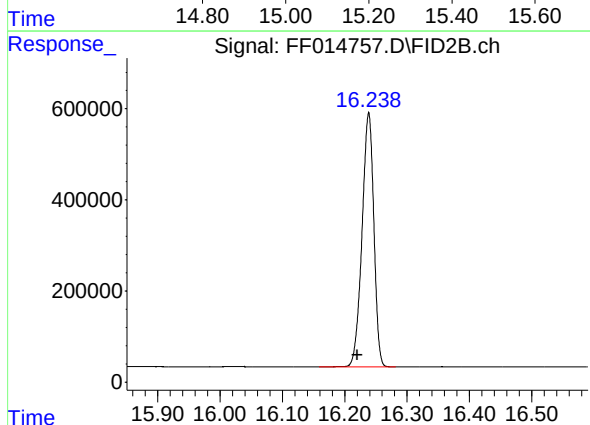
R.T.: 15.014 min  
Delta R.T.: 0.017 min  
Response: 6697885  
Conc: 50.89 ug/ml



#10 N-TETRACOSANE

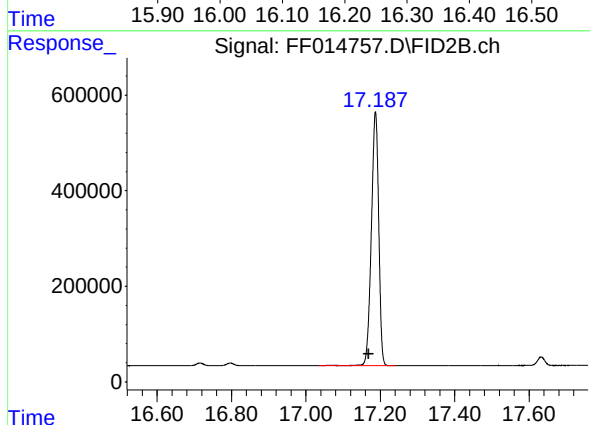
R.T.: 15.218 min  
Delta R.T.: 0.018 min  
Response: 7409114  
Conc: 50.41 ug/ml

Instrument :  
FID\_F  
ClientSampleId :



#11 N-HEXACOSANE

R.T.: 16.238 min  
Delta R.T.: 0.019 min  
Response: 7318384  
Conc: 50.10 ug/ml



#12 N-OCTACOSANE

R.T.: 17.187 min  
Delta R.T.: 0.018 min  
Response: 7262447  
Conc: 50.26 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014757.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 12:59  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 4.571       | 4.532        | 4.622      | BB       | 725833         | 7407274      | 96.14%         | 9.092%        |
| 2                       | 6.735       | 6.690        | 6.784      | BB       | 742245         | 7497124      | 97.31%         | 9.202%        |
| 3                       | 8.560       | 8.520        | 8.599      | BB       | 707745         | 7529901      | 97.73%         | 9.243%        |
| 4                       | 10.166      | 10.070       | 10.217     | BB       | 679505         | 7544750      | 97.92%         | 9.261%        |
| 5                       | 11.608      | 11.547       | 11.640     | BB       | 654061         | 7654653      | 99.35%         | 9.396%        |
| 6                       | 12.917      | 12.874       | 12.975     | BB       | 643973         | 7704655      | 100.00%        | 9.457%        |
| 7                       | 14.114      | 14.075       | 14.154     | VB       | 595547         | 7443920      | 96.62%         | 9.137%        |
| 8                       | 15.014      | 14.967       | 15.080     | BV       | 483446         | 6697885      | 86.93%         | 8.221%        |
| 9                       | 15.218      | 15.080       | 15.265     | VB       | 557738         | 7409114      | 96.16%         | 9.094%        |
| 10                      | 16.238      | 16.159       | 16.282     | BB       | 559196         | 7318384      | 94.99%         | 8.983%        |
| 11                      | 17.187      | 17.035       | 17.242     | BB       | 530867         | 7262447      | 94.26%         | 8.914%        |
| Sum of corrected areas: |             |              |            |          |                | 81470106     |                |               |

FF102124.M Fri Oct 25 04:59:43 2024

**DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY**

**50 PPM TRPH STD**

Lab Name: Chemtech Contract: CHEM02  
ProjectID: NJ Soil PT  
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495  
DataFile: FF014764.D Analyst Name: YP\AJ Analyst Date: 10-24-2024

| Conc. (PPM) | Area Count | RF     | Average RF | %D    |
|-------------|------------|--------|------------|-------|
| 500         | 74647355   | 149295 | 146801     | 1.699 |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
 Data File : FF014764.D  
 Signal(s) : FID2B.ch  
 Acq On : 24 Oct 2024 17:33  
 Operator : YP\AJ  
 Sample : 50 PPM TRPH STD  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
 Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e  
 Quant Time: Oct 25 04:37:08 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
 Quant Title :  
 QLast Update : Tue Oct 22 08:35:55 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal Phase : Rxi-1ms  
 Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units    |
|-------------------------------|--------|----------|---------------|
| -----                         |        |          |               |
| System Monitoring Compounds   |        |          |               |
| 9) S TETRACOSANE-d50 (SURR... | 15.014 | 6693020  | 50.858 ug/ml  |
| Target Compounds              |        |          |               |
| 2) N-DECANE                   | 4.572  | 7376938  | 51.640 ug/ml  |
| 3) N-DODECANE                 | 6.735  | 7482904  | 51.565 ug/ml  |
| 4) N-TETRADECANE              | 8.560  | 7529297  | 51.365 ug/ml  |
| 5) N-HEXADECANE               | 10.166 | 7532283  | 51.257 ug/mlm |
| 6) N-OCTADECANE               | 11.608 | 7648406  | 50.946 ug/ml  |
| 7) N-EICOSANE                 | 12.917 | 7696007  | 50.731 ug/ml  |
| 8) N-DOCOSANE                 | 14.115 | 7426793  | 50.471 ug/ml  |
| 10) N-TETRACOSANE             | 15.218 | 7376568  | 50.191 ug/mlm |
| 11) N-HEXACOSANE              | 16.238 | 7314793  | 50.080 ug/ml  |
| 12) N-OCTACOSANE              | 17.187 | 7263366  | 50.269 ug/ml  |
| -----                         |        |          |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014764.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 17:33  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

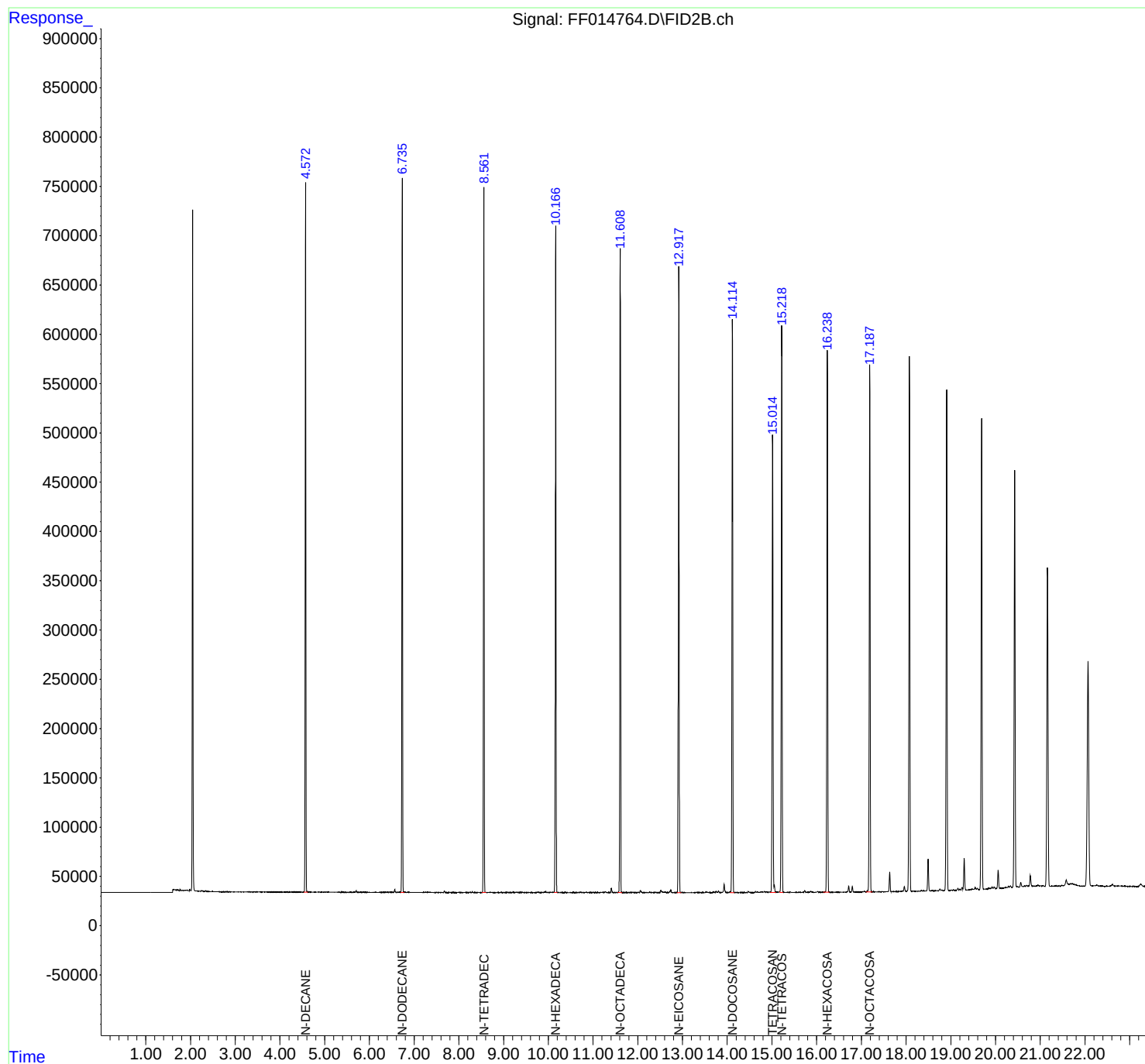
Instrument :  
FID\_F  
ClientSampleId :

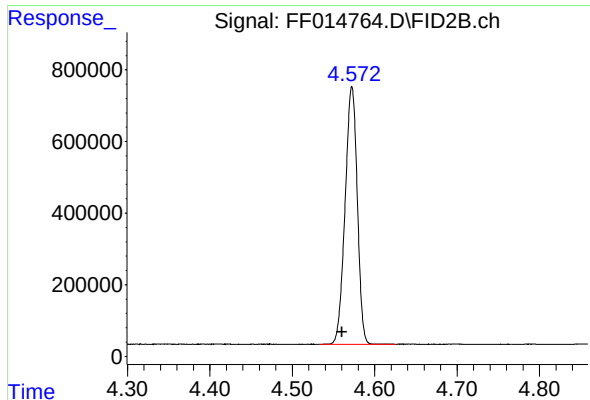
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e  
Quant Time: Oct 25 04:37:08 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





#2 N-DECANE

R.T.: 4.572 min  
Delta R.T.: 0.012 min  
Response: 7376938  
Conc: 51.64 ug/ml

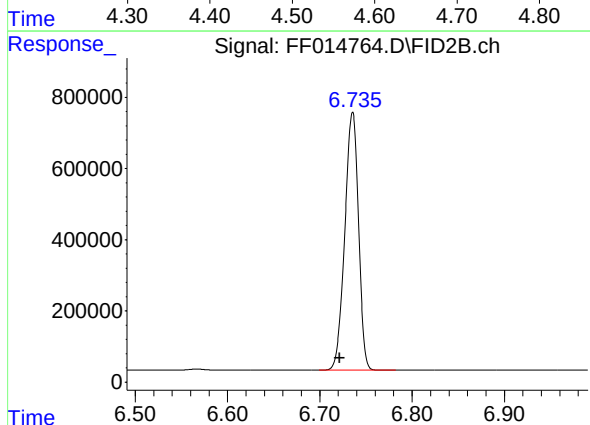
Instrument :

FID\_F

ClientSampleId :

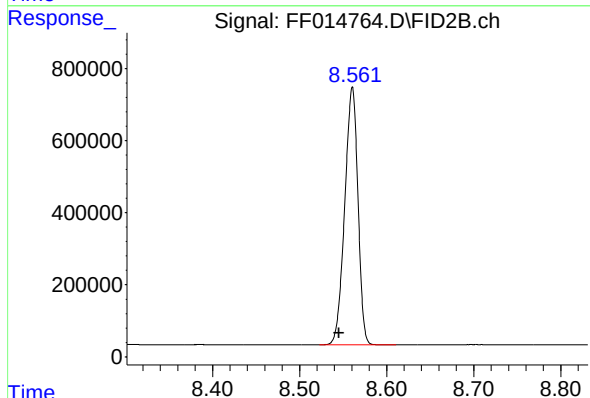
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



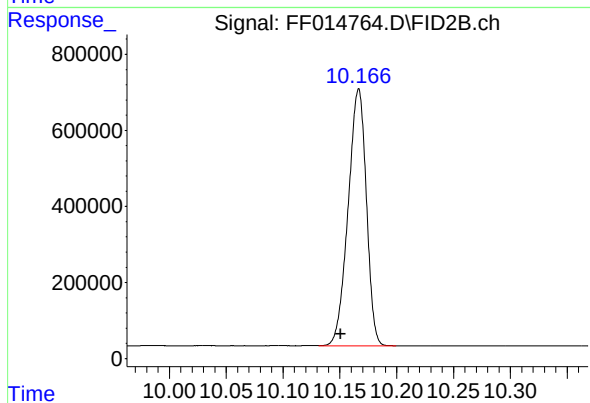
#3 N-DODECANE

R.T.: 6.735 min  
Delta R.T.: 0.014 min  
Response: 7482904  
Conc: 51.57 ug/ml



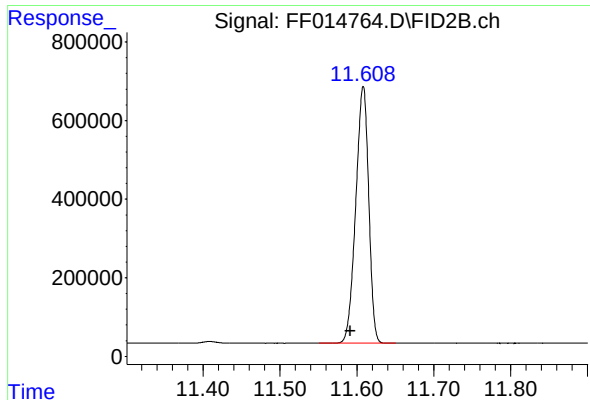
#4 N-TETRADECANE

R.T.: 8.560 min  
Delta R.T.: 0.015 min  
Response: 7529297  
Conc: 51.36 ug/ml



#5 N-HEXADECANE

R.T.: 10.166 min  
Delta R.T.: 0.016 min  
Response: 7532283  
Conc: 51.26 ug/ml m



#6 N-OCTADECANE

R.T.: 11.608 min  
Delta R.T.: 0.016 min  
Response: 7648406  
Conc: 50.95 ug/ml

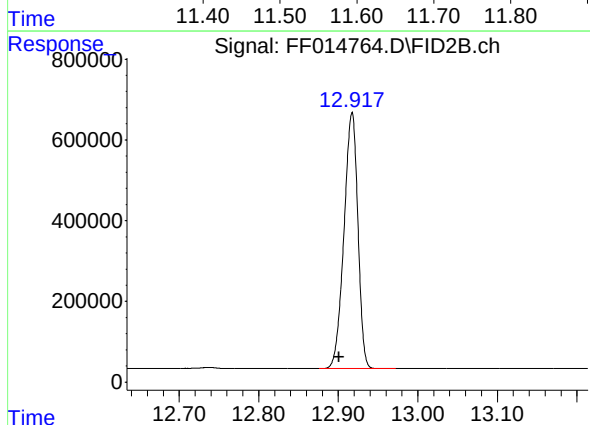
Instrument :

FID\_F

ClientSampleId :

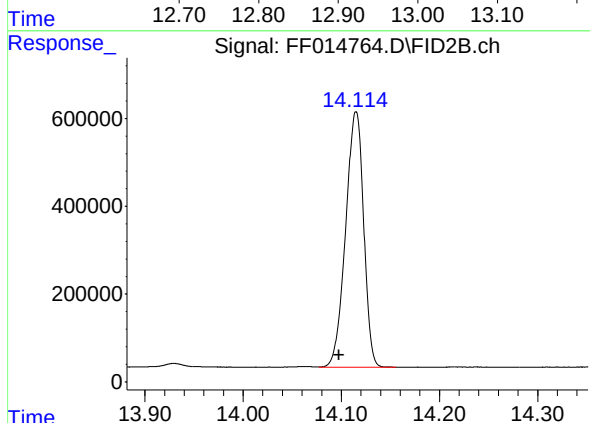
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



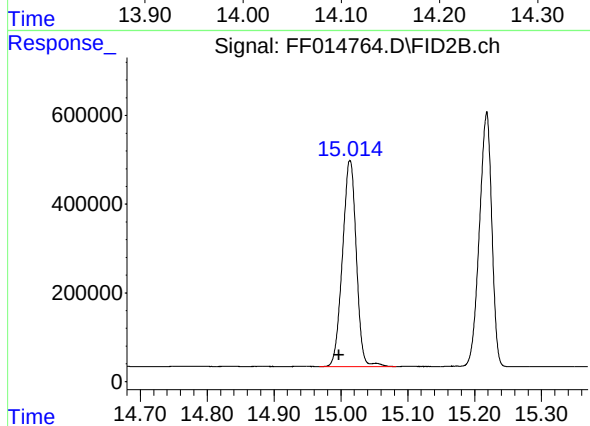
#7 N-EICOSANE

R.T.: 12.917 min  
Delta R.T.: 0.016 min  
Response: 7696007  
Conc: 50.73 ug/ml



#8 N-DOCOSANE

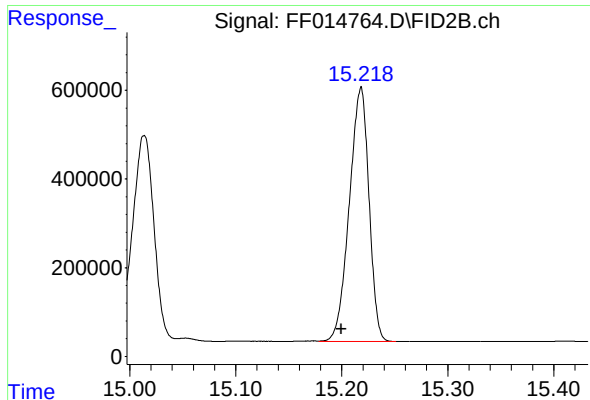
R.T.: 14.115 min  
Delta R.T.: 0.017 min  
Response: 7426793  
Conc: 50.47 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.014 min  
Delta R.T.: 0.017 min  
Response: 6693020  
Conc: 50.86 ug/ml





#10 N-TETRACOSANE

R.T.: 15.218 min  
Delta R.T.: 0.018 min  
Response: 7376568  
Conc: 50.19 ug/ml

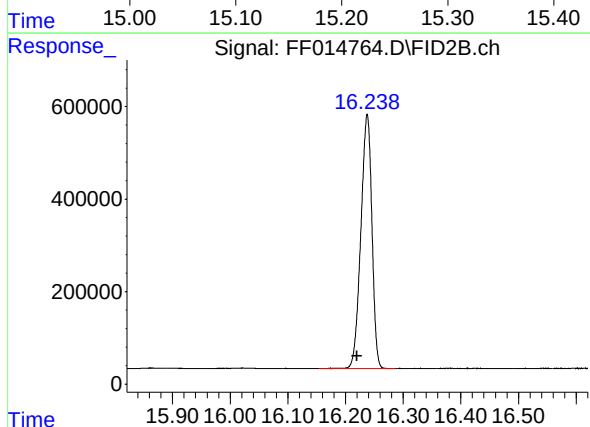
Instrument :

FID\_F

ClientSampleId :

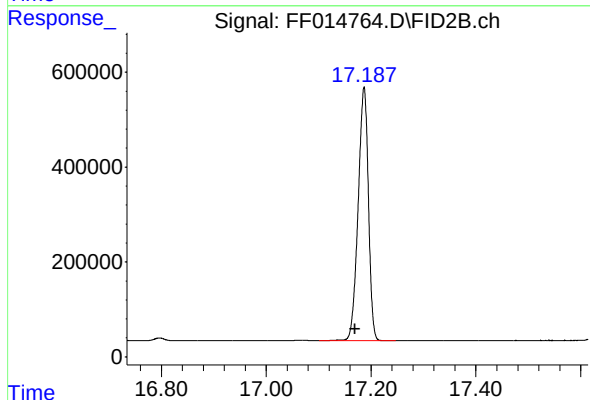
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



#11 N-HEXACOSANE

R.T.: 16.238 min  
Delta R.T.: 0.018 min  
Response: 7314793  
Conc: 50.08 ug/ml



#12 N-OCTACOSANE

R.T.: 17.187 min  
Delta R.T.: 0.017 min  
Response: 7263366  
Conc: 50.27 ug/ml

rters

Instrument :  
FID\_F  
LabSampleId :  
50 PPM TRPH STD  
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF10242  
Data File : FF014764.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 17:33  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 4.572       | 4.532        | 4.626      | BB       | 719822         | 7376938      | 95.85%         | 9.064%        |
| 2                       | 6.735       | 6.699        | 6.782      | BB       | 726436         | 7482904      | 97.23%         | 9.194%        |
| 3                       | 8.560       | 8.522        | 8.611      | BB       | 717972         | 7529297      | 97.83%         | 9.251%        |
| 4                       | 10.166      | 10.011       | 10.214     | BB       | 673985         | 7558410      | 98.21%         | 9.287%        |
| 5                       | 11.608      | 11.551       | 11.651     | BB       | 653619         | 7648406      | 99.38%         | 9.397%        |
| 6                       | 12.917      | 12.876       | 12.972     | BB       | 635284         | 7696007      | 100.00%        | 9.456%        |
| 7                       | 14.115      | 14.077       | 14.156     | VB       | 583244         | 7426793      | 96.50%         | 9.125%        |
| 8                       | 15.014      | 14.967       | 15.082     | BV       | 464423         | 6693020      | 86.97%         | 8.223%        |
| 9                       | 15.218      | 15.082       | 15.274     | VB       | 570962         | 7400034      | 96.15%         | 9.092%        |
| 10                      | 16.238      | 16.154       | 16.287     | BB       | 550286         | 7314793      | 95.05%         | 8.987%        |
| 11                      | 17.187      | 17.101       | 17.247     | BB       | 536198         | 7263366      | 94.38%         | 8.924%        |
| Sum of corrected areas: |             |              |            |          |                | 81389969     |                |               |

FF102124.M Fri Oct 25 05:01:02 2024

**DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY**

**50 PPM TRPH STD**

Lab Name: Chemtech Contract: CHEM02  
ProjectID: NJ Soil PT  
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495  
DataFile: FF014773.D Analyst Name: YP\AJ Analyst Date: 10-24-2024

| Conc. (PPM) | Area Count | RF     | Average RF | %D    |
|-------------|------------|--------|------------|-------|
| 500         | 73338469   | 146677 | 146801     | 0.084 |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014773.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 23:50  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e  
Quant Time: Oct 25 04:38:32 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units    |
|-------------------------------|--------|----------|---------------|
| -----                         |        |          |               |
| System Monitoring Compounds   |        |          |               |
| 9) S TETRACOSANE-d50 (SURR... | 15.018 | 6505657  | 49.434 ug/ml  |
| Target Compounds              |        |          |               |
| 2) N-DECANE                   | 4.574  | 7407028  | 51.850 ug/ml  |
| 3) N-DODECANE                 | 6.738  | 7469347  | 51.472 ug/ml  |
| 4) N-TETRADECANE              | 8.563  | 7451160  | 50.832 ug/ml  |
| 5) N-HEXADECANE               | 10.169 | 7425412  | 50.530 ug/ml  |
| 6) N-OCTADECANE               | 11.612 | 7501377  | 49.966 ug/ml  |
| 7) N-EICOSANE                 | 12.921 | 7525160  | 49.605 ug/ml  |
| 8) N-DOCOSANE                 | 14.119 | 7252608  | 49.287 ug/ml  |
| 10) N-TETRACOSANE             | 15.221 | 7193740  | 48.947 ug/mlm |
| 11) N-HEXACOSANE              | 16.242 | 7091680  | 48.553 ug/ml  |
| 12) N-OCTACOSANE              | 17.191 | 7020957  | 48.591 ug/ml  |
| -----                         |        |          |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014773.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 23:50  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

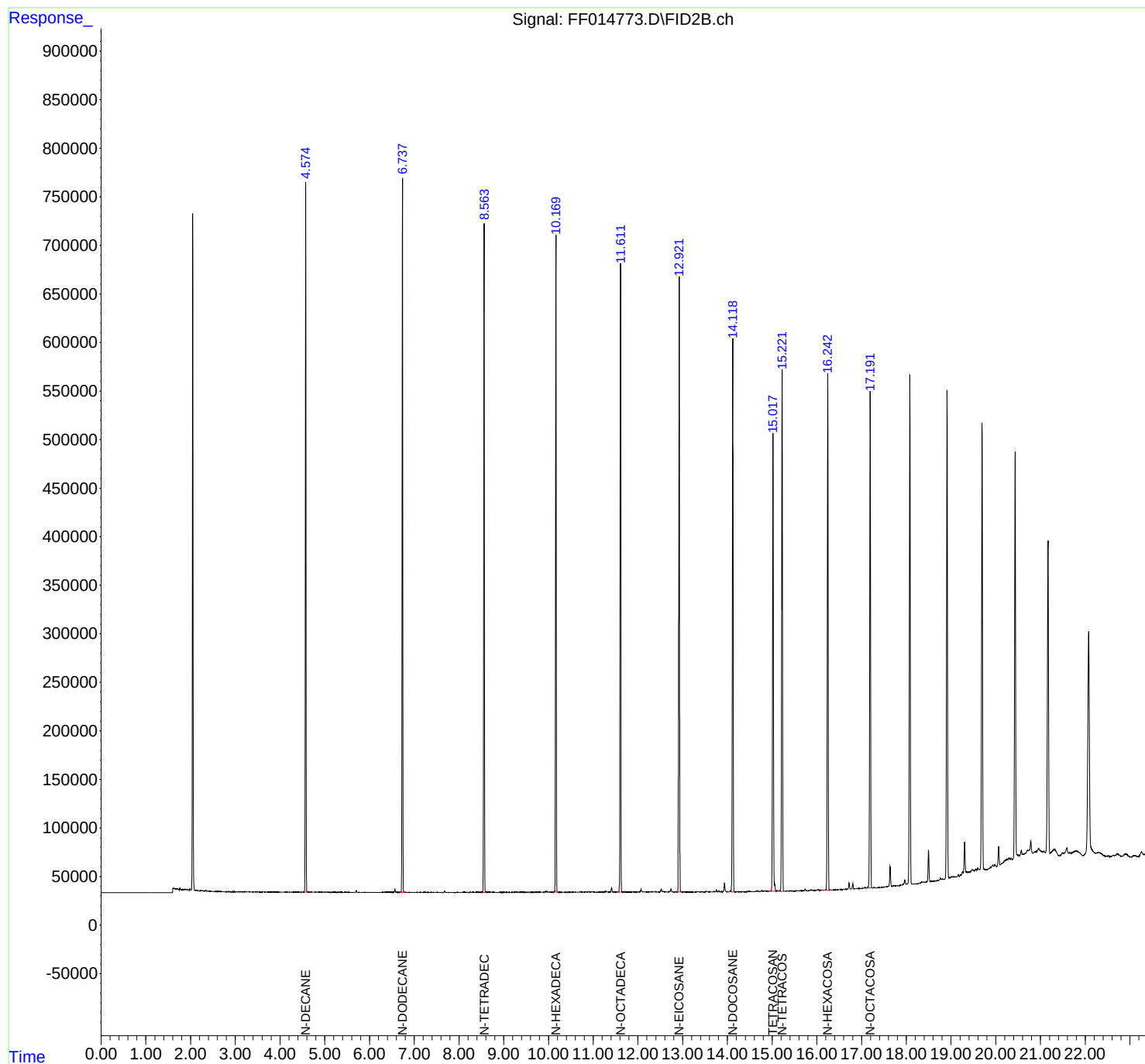
Instrument :  
FID\_F  
ClientSampleId :

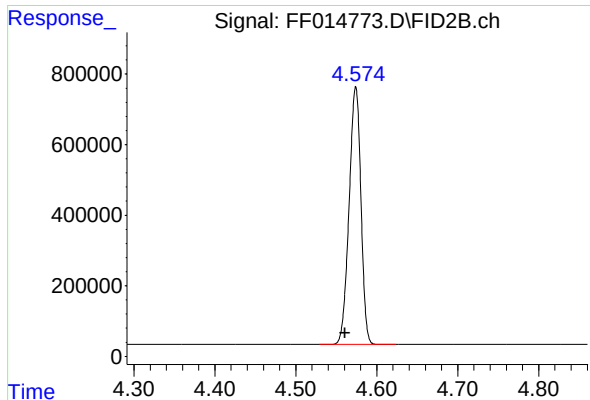
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e  
Quant Time: Oct 25 04:38:32 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





#2 N-DECANE

R.T.: 4.574 min  
Delta R.T.: 0.013 min  
Response: 7407028  
Conc: 51.85 ug/ml

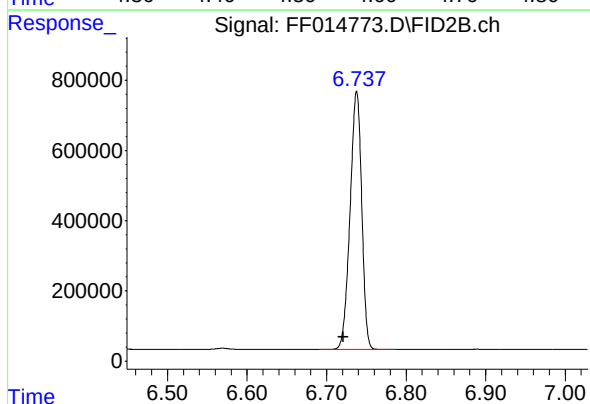
Instrument :

FID\_F

ClientSampleId :

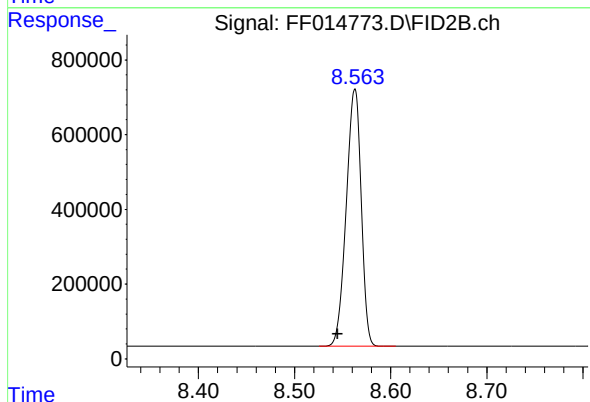
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



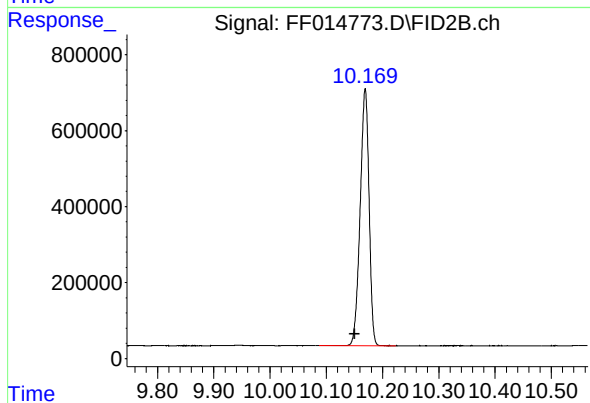
#3 N-DODECANE

R.T.: 6.738 min  
Delta R.T.: 0.016 min  
Response: 7469347  
Conc: 51.47 ug/ml



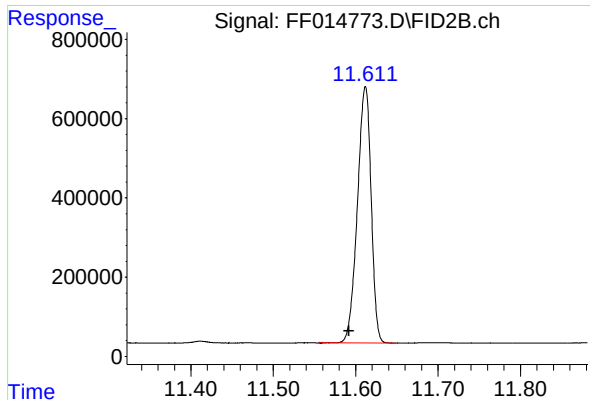
#4 N-TETRADECANE

R.T.: 8.563 min  
Delta R.T.: 0.018 min  
Response: 7451160  
Conc: 50.83 ug/ml



#5 N-HEXADECANE

R.T.: 10.169 min  
Delta R.T.: 0.019 min  
Response: 7425412  
Conc: 50.53 ug/ml



#6 N-OCTADECANE

R.T.: 11.612 min  
Delta R.T.: 0.020 min  
Response: 7501377  
Conc: 49.97 ug/ml

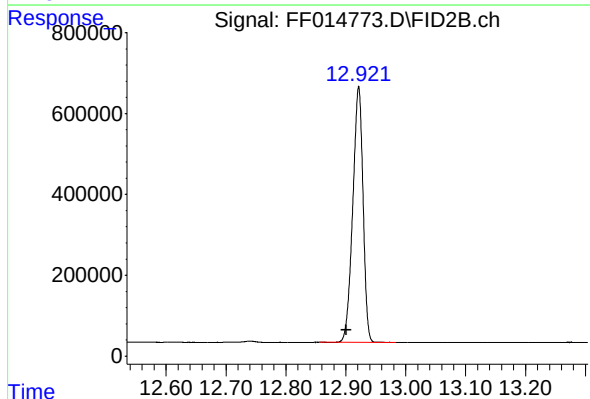
Instrument :

FID\_F

ClientSampleId :

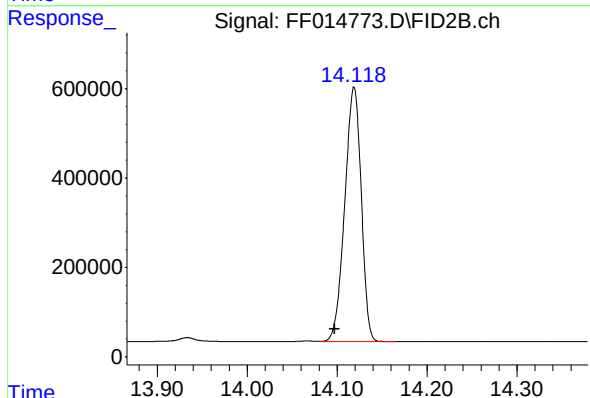
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



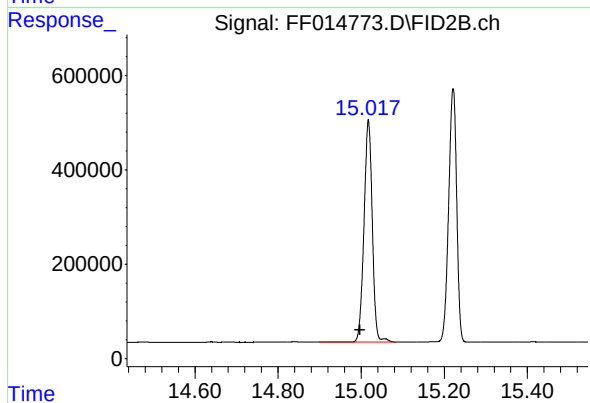
#7 N-EICOSANE

R.T.: 12.921 min  
Delta R.T.: 0.021 min  
Response: 7525160  
Conc: 49.60 ug/ml



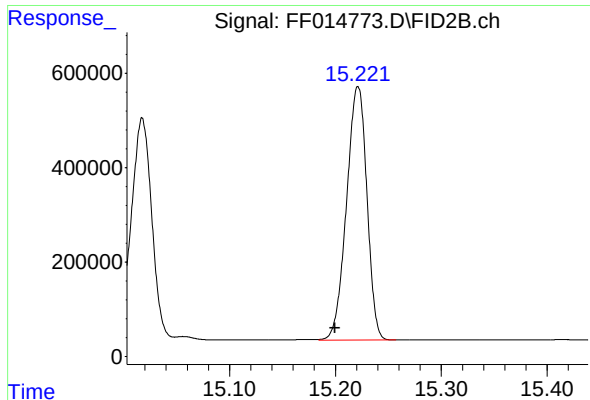
#8 N-DOCOSANE

R.T.: 14.119 min  
Delta R.T.: 0.021 min  
Response: 7252608  
Conc: 49.29 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.018 min  
Delta R.T.: 0.021 min  
Response: 6505657  
Conc: 49.43 ug/ml



#10 N-TETRACOSANE

R.T.: 15.221 min  
Delta R.T.: 0.021 min  
Response: 7193740  
Conc: 48.95 ug/ml

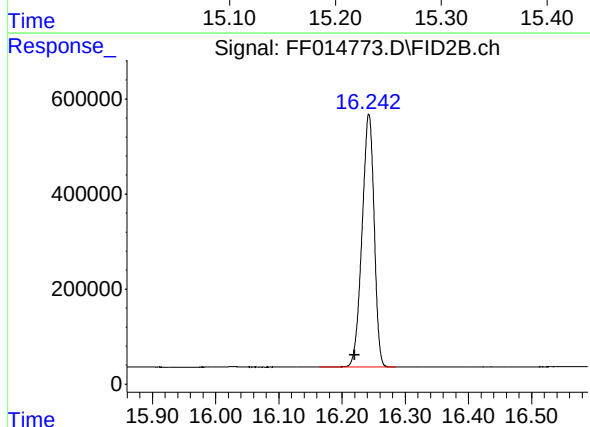
Instrument :

FID\_F

ClientSampleId :

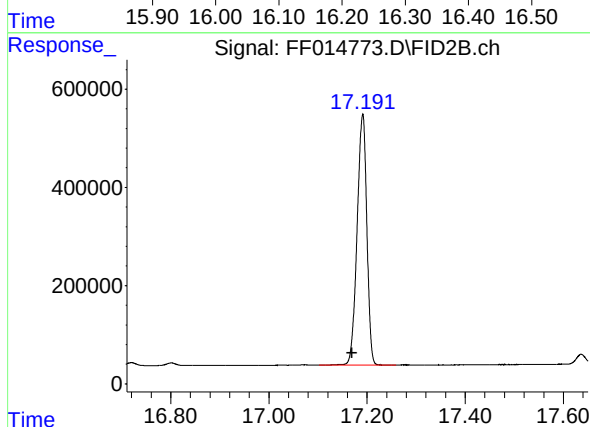
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



#11 N-HEXACOSANE

R.T.: 16.242 min  
Delta R.T.: 0.023 min  
Response: 7091680  
Conc: 48.55 ug/ml



#12 N-OCTACOSANE

R.T.: 17.191 min  
Delta R.T.: 0.022 min  
Response: 7020957  
Conc: 48.59 ug/ml



rteres

Instrument :  
FID\_F  
LabSampleId :  
50 PPM TRPH STD  
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF10242  
Data File : FF014773.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 23:50  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 4.574       | 4.529        | 4.624      | BB       | 730845         | 7407028      | 98.43%         | 9.276%        |
| 2                       | 6.738       | 6.690        | 6.787      | BB       | 735072         | 7469347      | 99.26%         | 9.354%        |
| 3                       | 8.563       | 8.525        | 8.605      | BB       | 688305         | 7451160      | 99.02%         | 9.331%        |
| 4                       | 10.169      | 10.087       | 10.224     | BB       | 677493         | 7425412      | 98.67%         | 9.299%        |
| 5                       | 11.612      | 11.555       | 11.649     | BB       | 648787         | 7501377      | 99.68%         | 9.394%        |
| 6                       | 12.921      | 12.855       | 12.984     | BB       | 635325         | 7525160      | 100.00%        | 9.424%        |
| 7                       | 14.119      | 14.080       | 14.165     | VB       | 570151         | 7252608      | 96.38%         | 9.082%        |
| 8                       | 15.018      | 14.899       | 15.084     | BV       | 471124         | 6505657      | 86.45%         | 8.147%        |
| 9                       | 15.221      | 15.084       | 15.277     | VB       | 538226         | 7202623      | 95.71%         | 9.020%        |
| 10                      | 16.242      | 16.164       | 16.285     | BB       | 532955         | 7091680      | 94.24%         | 8.881%        |
| 11                      | 17.191      | 17.102       | 17.259     | BB       | 510094         | 7020957      | 93.30%         | 8.792%        |
| Sum of corrected areas: |             |              |            |          |                | 79853008     |                |               |

FF102124.M Fri Oct 25 05:01:42 2024

**DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY**

**50 PPM TRPH STD**

Lab Name: Chemtech Contract: CHEM02  
 ProjectID: NJ Soil PT  
 Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495  
 DataFile: FF014776.D Analyst Name: YP\AJ Analyst Date: 10-25-2024

| Conc. (PPM) | Area Count | RF     | Average RF | %D    |
|-------------|------------|--------|------------|-------|
| 500         | 73865716   | 147731 | 146801     | 0.634 |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014776.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 06:40  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 26 04:02:14 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 15.015 | 6575242  | 49.963 ug/ml |
| Target Compounds              |        |          |              |
| 2) N-DECANE                   | 4.573  | 7463422  | 52.245 ug/ml |
| 3) N-DODECANE                 | 6.736  | 7520343  | 51.823 ug/ml |
| 4) N-TETRADECANE              | 8.561  | 7499682  | 51.163 ug/ml |
| 5) N-HEXADECANE               | 10.168 | 7474151  | 50.861 ug/ml |
| 6) N-OCTADECANE               | 11.609 | 7551356  | 50.299 ug/ml |
| 7) N-EICOSANE                 | 12.918 | 7587094  | 50.013 ug/ml |
| 8) N-DOCOSANE                 | 14.116 | 7307940  | 49.663 ug/ml |
| 10) N-TETRACOSANE             | 15.220 | 7239868  | 49.261 ug/ml |
| 11) N-HEXACOSANE              | 16.240 | 7145621  | 48.922 ug/ml |
| 12) N-OCTACOSANE              | 17.190 | 7076239  | 48.974 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

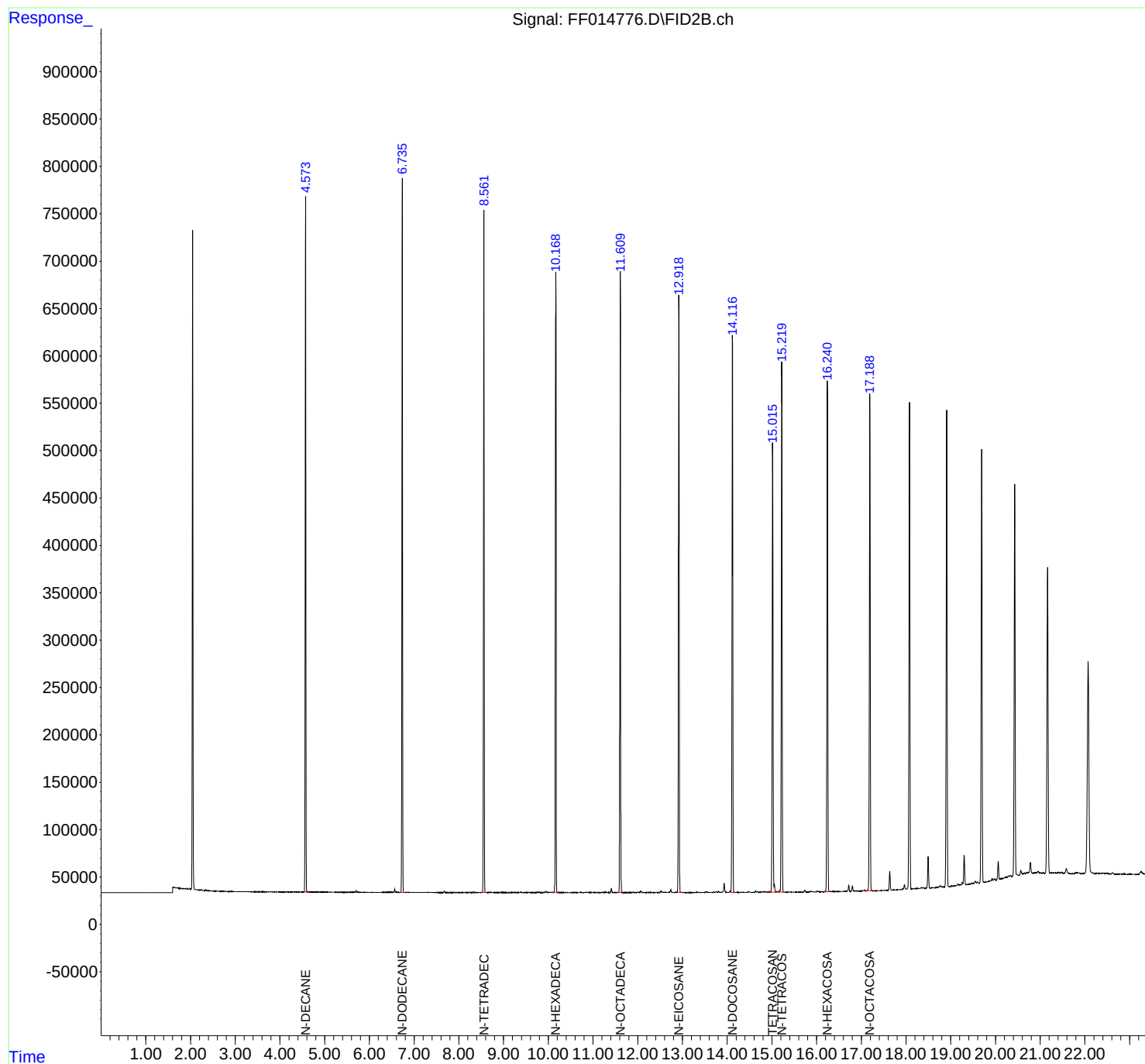
(m)=manual int.

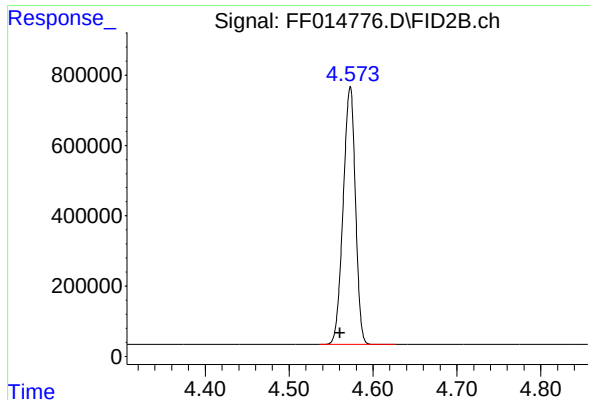
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014776.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 06:40  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM TRPH STD

Integration File: autoint1.e  
Quant Time: Oct 26 04:02:14 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

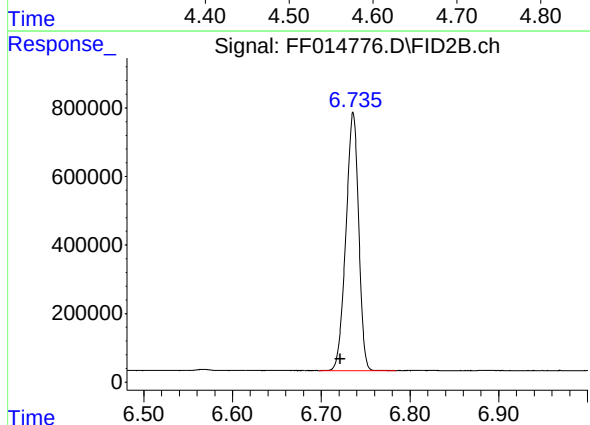




#2 N-DECANE

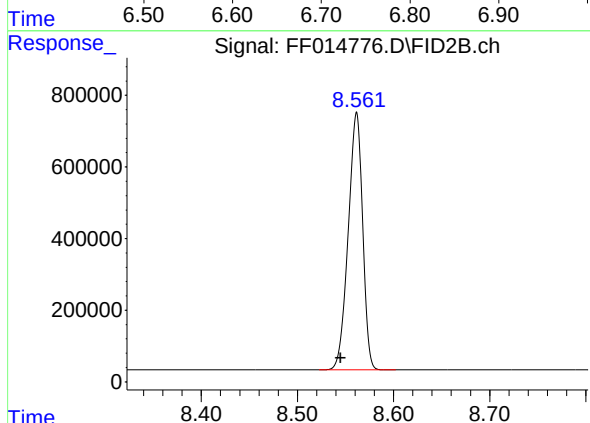
R.T.: 4.573 min  
Delta R.T.: 0.012 min  
Response: 7463422  
Conc: 52.25 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM TRPH STD



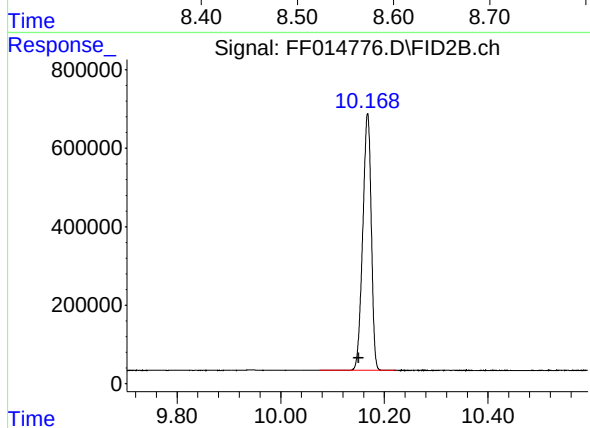
#3 N-DODECANE

R.T.: 6.736 min  
Delta R.T.: 0.014 min  
Response: 7520343  
Conc: 51.82 ug/ml



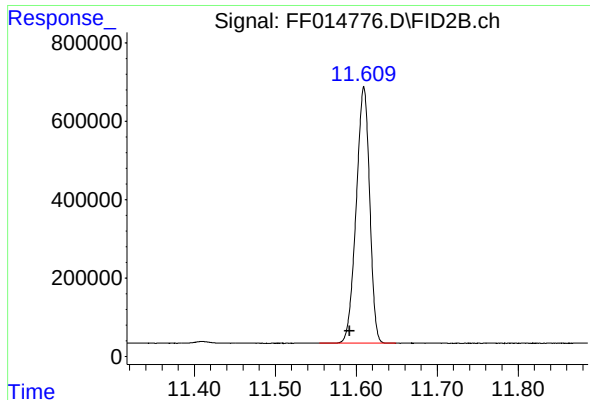
#4 N-TETRADECANE

R.T.: 8.561 min  
Delta R.T.: 0.016 min  
Response: 7499682  
Conc: 51.16 ug/ml



#5 N-HEXADECANE

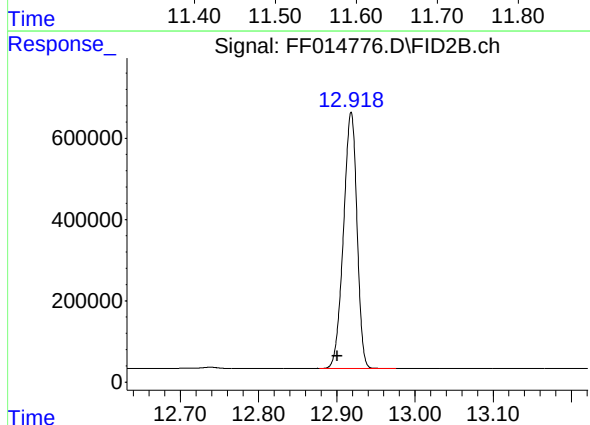
R.T.: 10.168 min  
Delta R.T.: 0.017 min  
Response: 7474151  
Conc: 50.86 ug/ml



#6 N-OCTADECANE

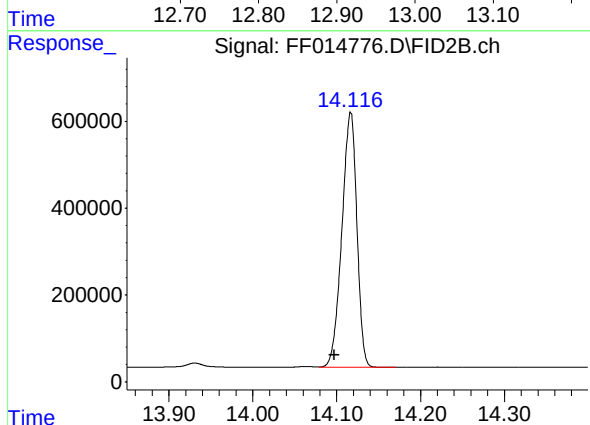
R.T.: 11.609 min  
Delta R.T.: 0.017 min  
Response: 7551356  
Conc: 50.30 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM TRPH STD



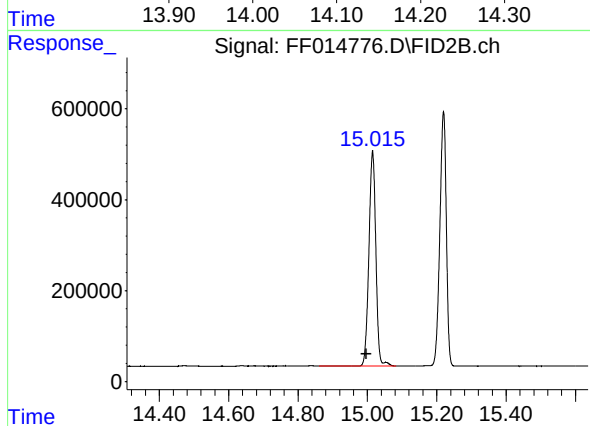
#7 N-EICOSANE

R.T.: 12.918 min  
Delta R.T.: 0.018 min  
Response: 7587094  
Conc: 50.01 ug/ml



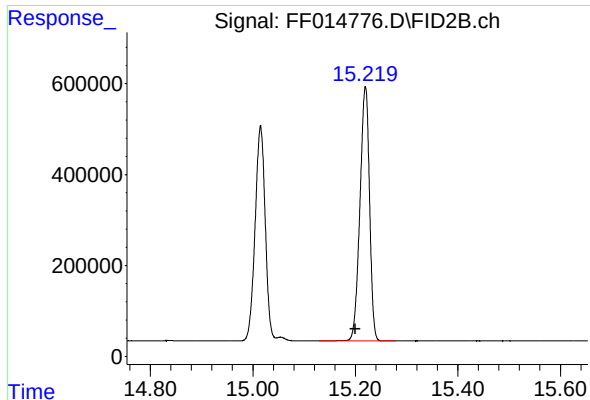
#8 N-DOCOSANE

R.T.: 14.116 min  
Delta R.T.: 0.019 min  
Response: 7307940  
Conc: 49.66 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

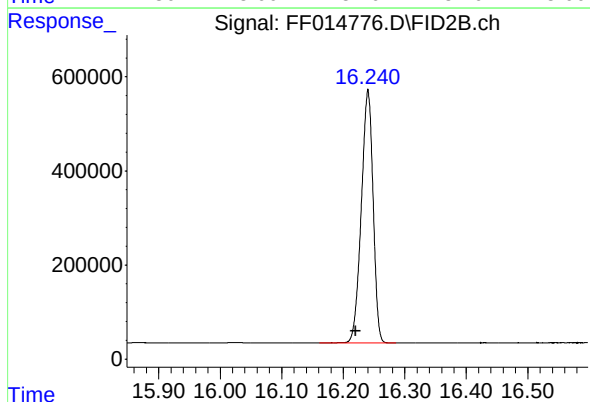
R.T.: 15.015 min  
Delta R.T.: 0.018 min  
Response: 6575242  
Conc: 49.96 ug/ml



#10 N-TETRACOSANE

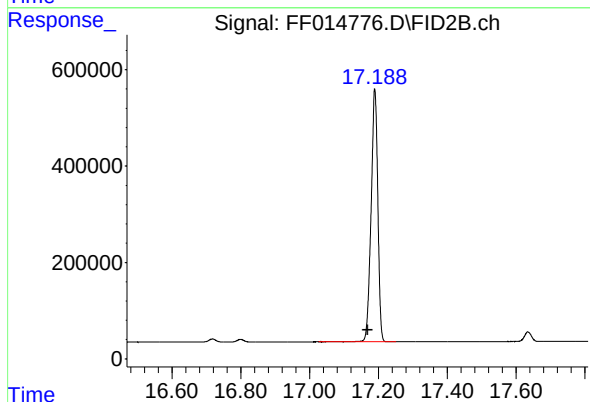
R.T.: 15.220 min  
Delta R.T.: 0.020 min  
Response: 7239868  
Conc: 49.26 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM TRPH STD



#11 N-HEXACOSANE

R.T.: 16.240 min  
Delta R.T.: 0.020 min  
Response: 7145621  
Conc: 48.92 ug/ml



#12 N-OCTACOSANE

R.T.: 17.190 min  
Delta R.T.: 0.020 min  
Response: 7076239  
Conc: 48.97 ug/ml

rteres

## Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014776.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 06:40  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 4.573       | 4.536        | 4.627      | BB       | 732891         | 7463422      | 98.37%         | 9.278%        |
| 2                       | 6.736       | 6.697        | 6.784      | BB       | 754691         | 7520343      | 99.12%         | 9.349%        |
| 3                       | 8.561       | 8.522        | 8.602      | BB       | 716519         | 7499682      | 98.85%         | 9.323%        |
| 4                       | 10.168      | 10.074       | 10.222     | BB       | 655585         | 7474151      | 98.51%         | 9.291%        |
| 5                       | 11.609      | 11.554       | 11.649     | BB       | 655148         | 7551356      | 99.53%         | 9.387%        |
| 6                       | 12.918      | 12.877       | 12.976     | BB       | 632381         | 7587094      | 100.00%        | 9.432%        |
| 7                       | 14.116      | 14.079       | 14.171     | VB       | 587897         | 7307940      | 96.32%         | 9.085%        |
| 8                       | 15.015      | 14.861       | 15.082     | BB       | 472479         | 6575242      | 86.66%         | 8.174%        |
| 9                       | 15.220      | 15.129       | 15.279     | BB       | 560481         | 7239868      | 95.42%         | 9.000%        |
| 10                      | 16.240      | 16.161       | 16.286     | BB       | 538974         | 7145621      | 94.18%         | 8.883%        |
| 11                      | 17.190      | 17.027       | 17.251     | BB       | 525092         | 7076239      | 93.27%         | 8.797%        |
| Sum of corrected areas: |             |              |            |          |                | 80440958     |                |               |

FF102124.M Sat Oct 26 04:41:11 2024



**DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY**

**50 PPM TRPH STD**

Lab Name: Chemtech Contract: CHEM02  
ProjectID: NJ Soil PT  
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495  
DataFile: FF014787.D Analyst Name: YP\AJ Analyst Date: 10-25-2024

| Conc. (PPM) | Area Count | RF     | Average RF | %D    |
|-------------|------------|--------|------------|-------|
| 500         | 76936905   | 153874 | 146801     | 4.818 |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014787.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 12:46  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM TRPH STD

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/28/2024  
Supervised By :Ankita Jodhani 10/28/2024

Integration File: autoint1.e  
Quant Time: Oct 26 04:03:47 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units    |
|-------------------------------|--------|----------|---------------|
| -----                         |        |          |               |
| System Monitoring Compounds   |        |          |               |
| 9) S TETRACOSANE-d50 (SURR... | 15.014 | 6717486  | 51.044 ug/mlm |
| Target Compounds              |        |          |               |
| 2) N-DECANE                   | 4.573  | 7777941  | 54.447 ug/ml  |
| 3) N-DODECANE                 | 6.736  | 7851108  | 54.103 ug/ml  |
| 4) N-TETRADECANE              | 8.561  | 7834568  | 53.447 ug/ml  |
| 5) N-HEXADECANE               | 10.167 | 7804928  | 53.112 ug/ml  |
| 6) N-OCTADECANE               | 11.609 | 7881602  | 52.499 ug/ml  |
| 7) N-EICOSANE                 | 12.918 | 7899420  | 52.072 ug/ml  |
| 8) N-DOCOSANE                 | 14.116 | 7599506  | 51.645 ug/ml  |
| 10) N-TETRACOSANE             | 15.219 | 7541643  | 51.315 ug/ml  |
| 11) N-HEXACOSANE              | 16.239 | 7408570  | 50.722 ug/ml  |
| 12) N-OCTACOSANE              | 17.189 | 7337619  | 50.783 ug/ml  |
| -----                         |        |          |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014787.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 12:46  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

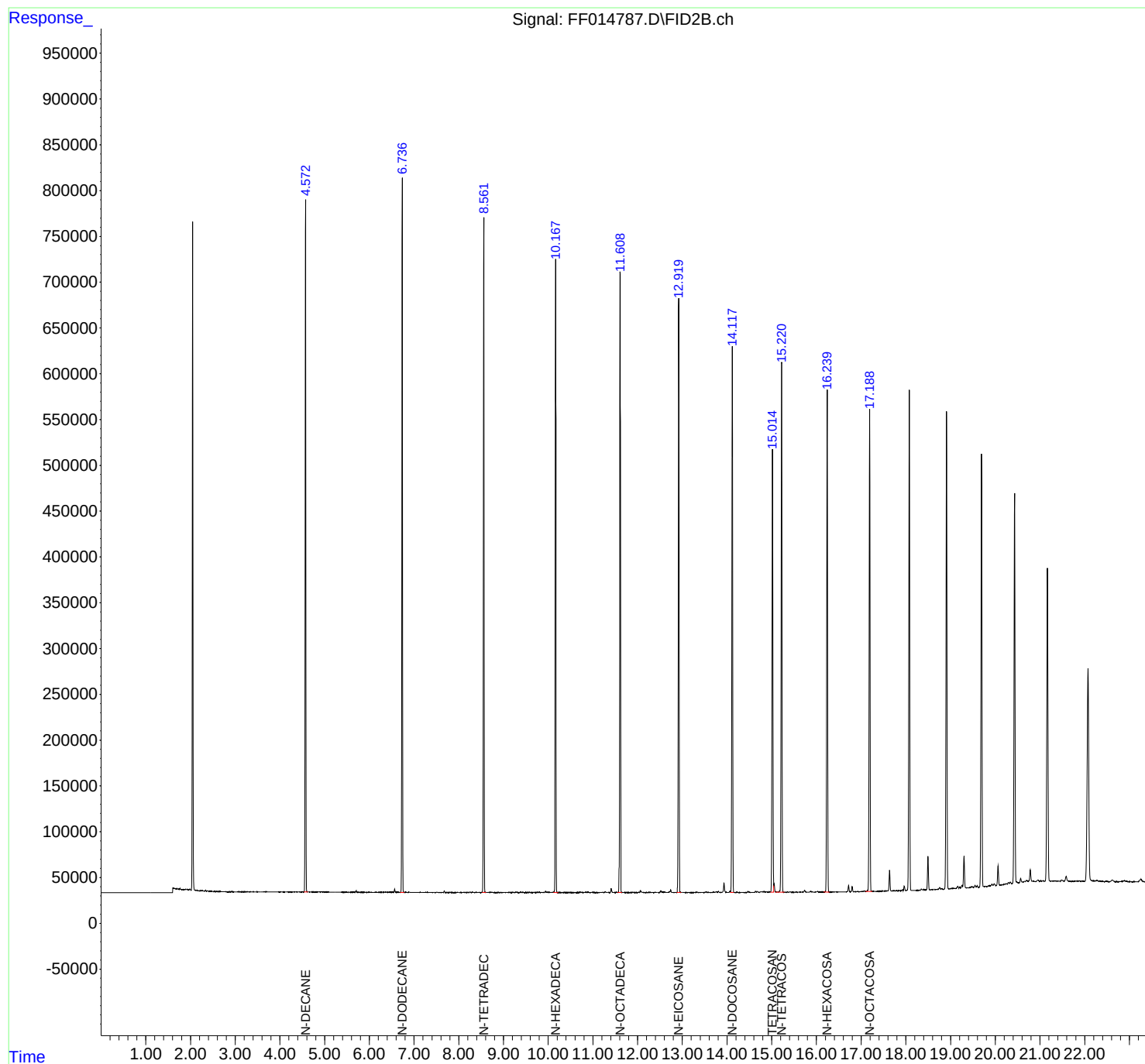
Instrument :  
FID\_F  
ClientSampleId :  
50 PPM TRPH STD

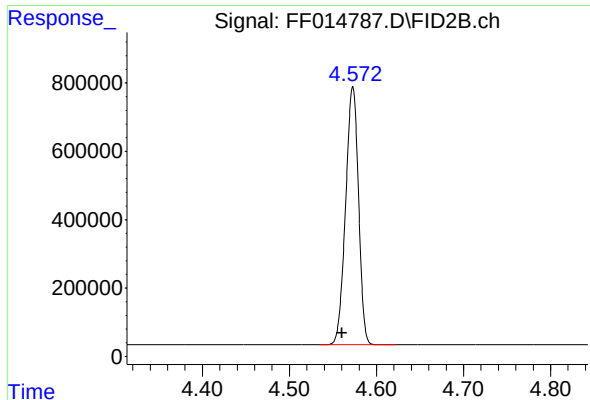
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/28/2024  
Supervised By :Ankita Jodhani 10/28/2024

Integration File: autoint1.e  
Quant Time: Oct 26 04:03:47 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





#2 N-DECANE

R.T.: 4.573 min  
Delta R.T.: 0.012 min  
Response: 7777941  
Conc: 54.45 ug/ml

Instrument :

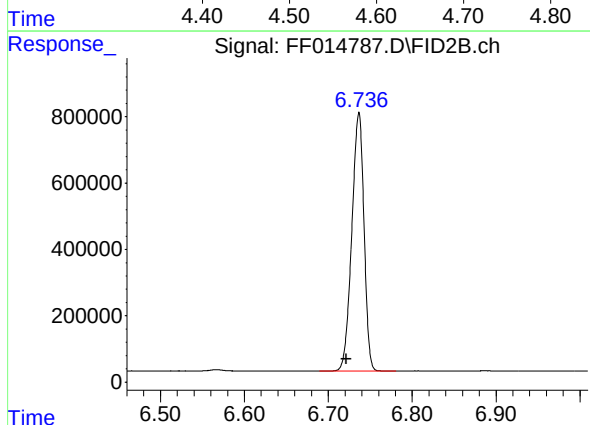
FID\_F

ClientSampleId :

50 PPM TRPH STD

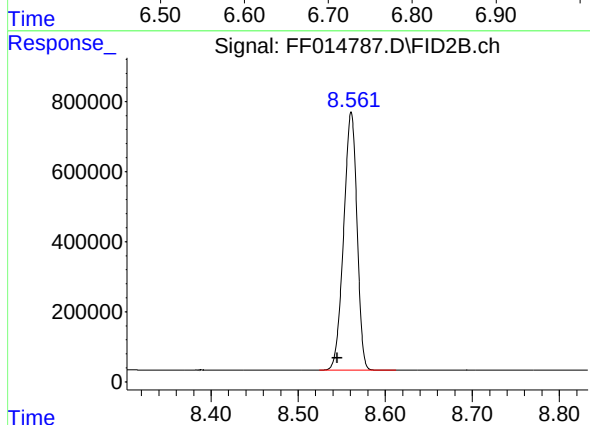
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/28/2024  
Supervised By :Ankita Jodhani 10/28/2024



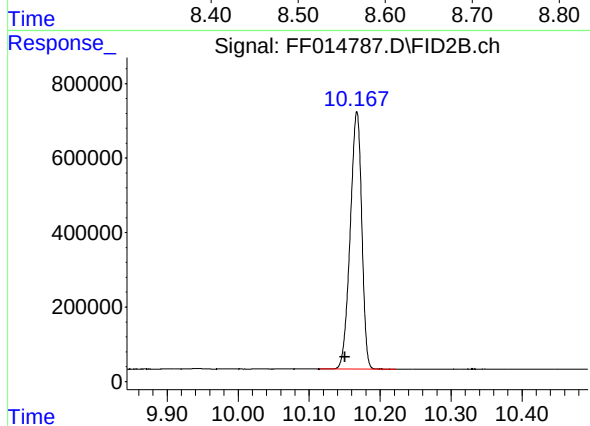
#3 N-DODECANE

R.T.: 6.736 min  
Delta R.T.: 0.015 min  
Response: 7851108  
Conc: 54.10 ug/ml



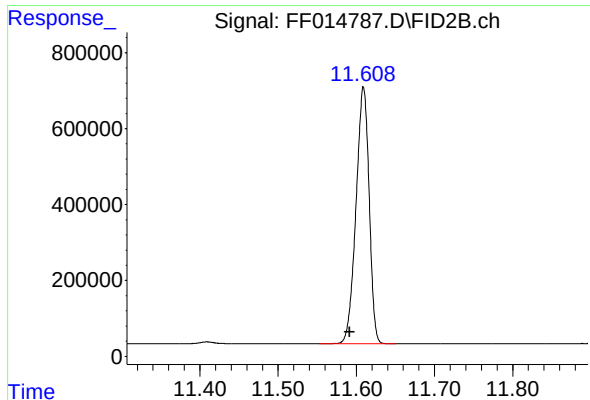
#4 N-TETRADECANE

R.T.: 8.561 min  
Delta R.T.: 0.016 min  
Response: 7834568  
Conc: 53.45 ug/ml



#5 N-HEXADECANE

R.T.: 10.167 min  
Delta R.T.: 0.017 min  
Response: 7804928  
Conc: 53.11 ug/ml



#6 N-OCTADECANE

R.T.: 11.609 min  
Delta R.T.: 0.017 min  
Response: 7881602  
Conc: 52.50 ug/ml

Instrument :

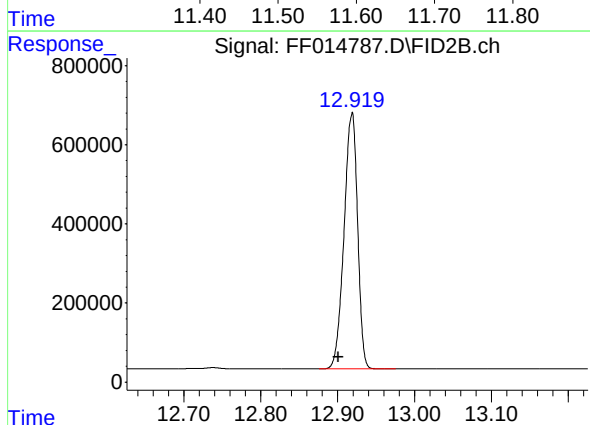
FID\_F

ClientSampleId :

50 PPM TRPH STD

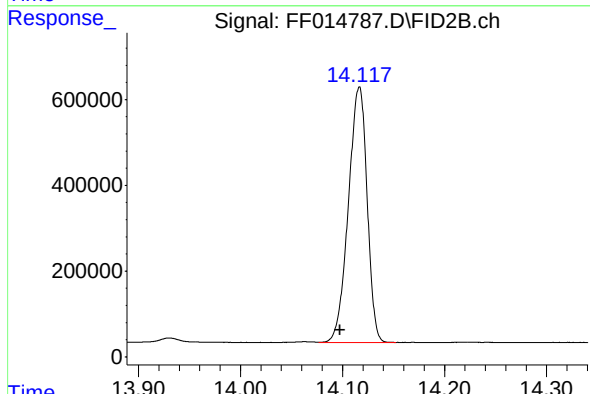
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/28/2024  
Supervised By :Ankita Jodhani 10/28/2024



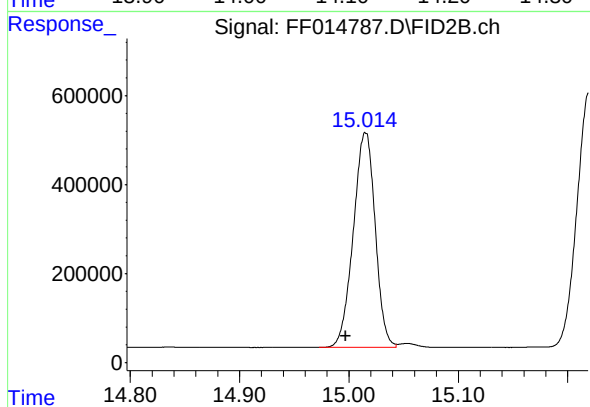
#7 N-EICOSANE

R.T.: 12.918 min  
Delta R.T.: 0.018 min  
Response: 7899420  
Conc: 52.07 ug/ml



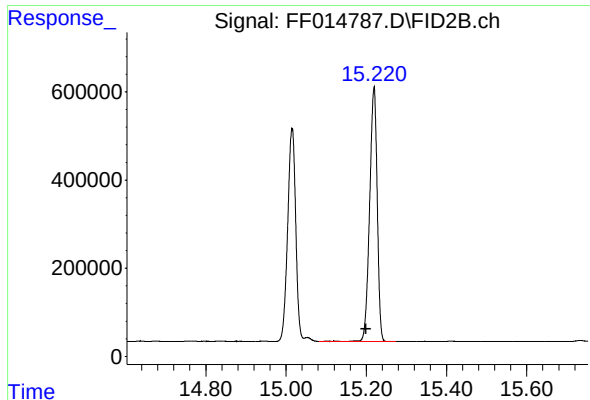
#8 N-DOCOSANE

R.T.: 14.116 min  
Delta R.T.: 0.019 min  
Response: 7599506  
Conc: 51.64 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.014 min  
Delta R.T.: 0.017 min  
Response: 6717486  
Conc: 51.04 ug/ml m



# #10 N-TETRACOSANE

R.T.: 15.219 min  
Delta R.T.: 0.019 min  
Response: 7541643  
Conc: 51.31 ug/ml

Instrument :

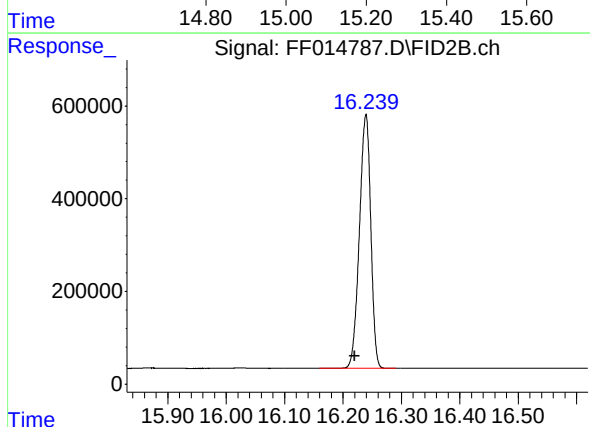
FID\_F

ClientSampleId :

50 PPM TRPH STD

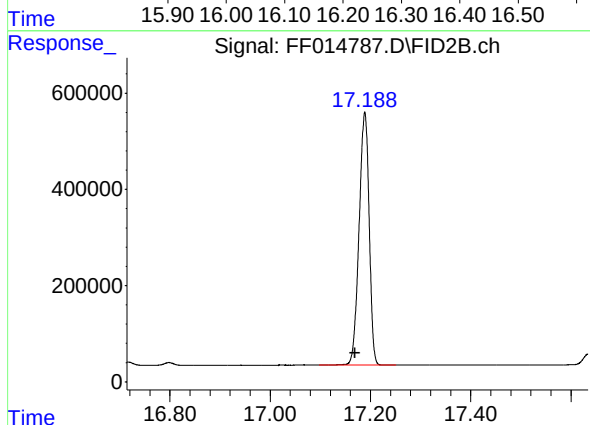
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/28/2024  
Supervised By :Ankita Jodhani 10/28/2024



# #11 N-HEXACOSANE

R.T.: 16.239 min  
Delta R.T.: 0.019 min  
Response: 7408570  
Conc: 50.72 ug/ml



# #12 N-OCTACOSANE

R.T.: 17.189 min  
Delta R.T.: 0.019 min  
Response: 7337619  
Conc: 50.78 ug/ml

rteres

Instrument :  
FID\_F  
LabSampleId :  
50 PPM TRPH STD  
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/28/2024  
Supervised By :Ankita Jodhani 10/28/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF10252  
Data File : FF014787.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 12:46  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 4.573       | 4.537        | 4.612      | BB       | 755589         | 7773939      | 98.41%         | 9.322%        |
| 2                       | 6.737       | 6.701        | 6.781      | BB       | 783574         | 7851125      | 99.39%         | 9.415%        |
| 3                       | 8.561       | 8.524        | 8.596      | BB       | 735930         | 7833548      | 99.17%         | 9.394%        |
| 4                       | 10.167      | 10.131       | 10.206     | BB       | 691461         | 7791726      | 98.64%         | 9.344%        |
| 5                       | 11.609      | 11.559       | 11.651     | BB       | 677129         | 7879306      | 99.75%         | 9.449%        |
| 6                       | 12.919      | 12.877       | 12.964     | BB       | 648652         | 7899332      | 100.00%        | 9.473%        |
| 7                       | 14.117      | 14.077       | 14.152     | VB       | 595742         | 7599351      | 96.20%         | 9.113%        |
| 8                       | 15.015      | 14.972       | 15.045     | BV       | 477971         | 6570450      | 83.18%         | 7.879%        |
| 9                       | 15.219      | 15.181       | 15.267     | BB       | 574837         | 7481207      | 94.71%         | 8.971%        |
| 10                      | 16.239      | 16.179       | 16.291     | BB       | 547496         | 7402521      | 93.71%         | 8.877%        |
| 11                      | 17.189      | 17.132       | 17.241     | BB       | 526190         | 7309173      | 92.53%         | 8.765%        |
| Sum of corrected areas: |             |              |            |          |                | 83391677     |                |               |

FF102124.M Tue Dec 03 00:30:14 2024

## Analytical Sequence

**Client:** Chemtech Consulting Group

**SDG No.:** P4495

**Project:** NJ Soil PT

**Instrument ID:** FID\_F

**GC Column:** RXI-1MS      **ID:** 0.18      (mm)

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

| MEAN SUROGATE RT FROM INITIAL CALIBRATION <b>14.9988</b> |                  |                           |            |        |   |
|----------------------------------------------------------|------------------|---------------------------|------------|--------|---|
| EPA<br>SAMPLE NO.                                        | LAB<br>SAMPLE ID | DATE AND TIME<br>ANALYZED | DATAFILE   | RT     | # |
| PIBLK01                                                  | LBLK01           | 24 Oct 2024 12:00         | FF014756.D | 15.009 |   |
| 50 PPM TRPH STD                                          | 50 PPM TRPH STD  | 24 Oct 2024 12:59         | FF014757.D | 15.014 |   |
| PB164381BL                                               | PB164381BL       | 24 Oct 2024 14:33         | FF014759.D | 15.010 |   |
| PB164381BS                                               | PB164381BS       | 24 Oct 2024 15:02         | FF014760.D | 15.011 |   |
| PIBLK02                                                  | LBLK02           | 24 Oct 2024 16:35         | FF014763.D | 15.010 |   |
| 50 PPM TRPH STD                                          | 50 PPM TRPH STD  | 24 Oct 2024 17:33         | FF014764.D | 15.014 |   |
| EX-5-TPH-1MS                                             | P4518-01MS       | 24 Oct 2024 19:58         | FF014766.D | 14.969 |   |
| EX-5-TPH-1MSD                                            | P4518-01MSD      | 24 Oct 2024 20:27         | FF014767.D | 14.973 |   |
| PIBLK03                                                  | LBLK03           | 24 Oct 2024 22:52         | FF014772.D | 15.015 |   |
| 50 PPM TRPH STD                                          | 50 PPM TRPH STD  | 24 Oct 2024 23:50         | FF014773.D | 15.018 |   |
| PIBLK04                                                  | LBLK04           | 25 Oct 2024 06:11         | FF014775.D | 15.012 |   |
| 50 PPM TRPH STD                                          | 50 PPM TRPH STD  | 25 Oct 2024 06:40         | FF014776.D | 15.015 |   |
| PT-DIES-SOIL                                             | P4495-14         | 25 Oct 2024 08:27         | FF014778.D | 15.009 |   |
| PIBLK05                                                  | LBLK05           | 25 Oct 2024 12:17         | FF014786.D | 15.011 |   |
| 50 PPM TRPH STD                                          | 50 PPM TRPH STD  | 25 Oct 2024 12:46         | FF014787.D | 15.015 |   |

# Column used to flag RT values with an \* values outside of QC limits

QC Limits  
(± 0.10 minutes)

Lower Limit  
14.8988

Upper Limits  
15.0988





# QC SAMPLE DATA

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## Report of Analysis

|                    |                           |          |                    |                       |           |
|--------------------|---------------------------|----------|--------------------|-----------------------|-----------|
| Client:            | Chemtech Consulting Group |          | Date Collected:    |                       |           |
| Project:           | NJ Soil PT                |          | Date Received:     |                       |           |
| Client Sample ID:  | PB164381BL                |          | SDG No.:           | P4495                 |           |
| Lab Sample ID:     | PB164381BL                |          | Matrix:            | SOIL                  |           |
| Analytical Method: | 8015D DRO                 |          | % Solid:           | 100                   | Decanted: |
| Sample Wt/Vol:     | 30.03                     | Units: g | Final Vol:         | 1                     | mL        |
| Soil Aliquot Vol:  |                           | uL       | Test:              | Diesel Range Organics |           |
| Extraction Type:   |                           |          | Injection Volume : |                       |           |
| GPC Factor :       |                           | PH :     |                    |                       |           |
| Prep Method :      | SW3541                    |          |                    |                       |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| FF014759.D        | 1         | 10/24/24 11:10 | 10/24/24 14:33 | PB164381      |

| CAS Number        | Parameter       | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|-----------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                 |       |           |          |            |                   |
| DRO               | DRO             | 185   | U         | 185      | 1670       | ug/kg             |
| <b>SURROGATES</b> |                 |       |           |          |            |                   |
| 16416-32-3        | Tetracosane-d50 | 15.5  |           | 37 - 130 | 77%        | SPK: 20           |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014759.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 14:33  
Operator : YP\AJ  
Sample : PB164381BL  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
PB164381BL

Integration File: autoint1.e  
Quant Time: Oct 25 04:36:24 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 15.010 | 2035886  | 15.470 ug/ml |
| Target Compounds              |        |          |              |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

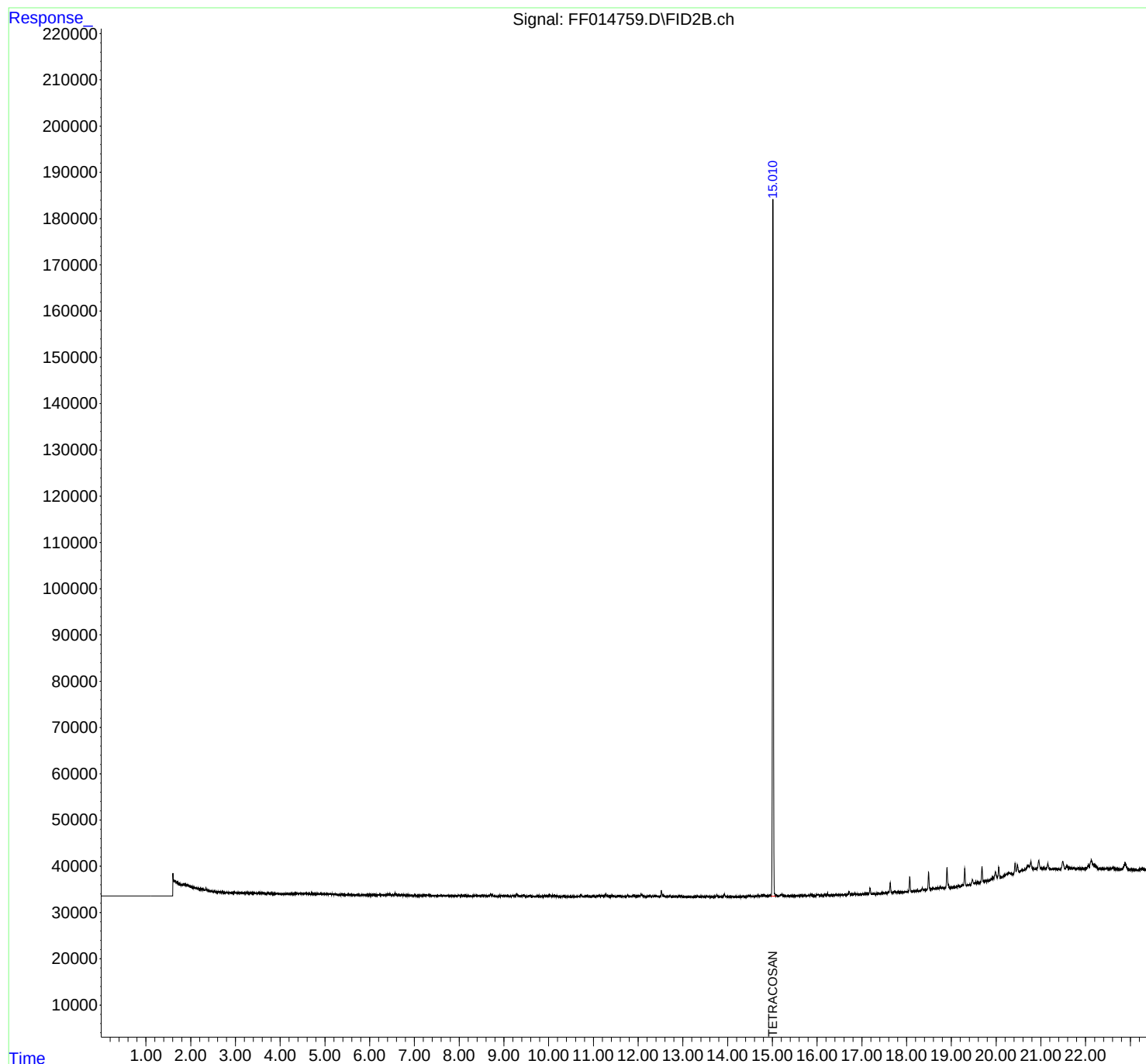
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014759.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 14:33  
Operator : YP\AJ  
Sample : PB164381BL  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

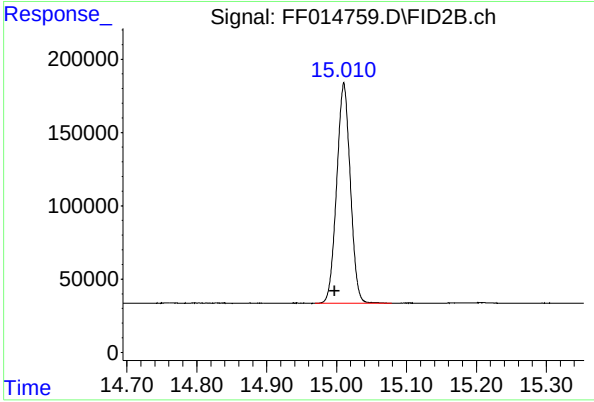
Instrument :  
FID\_F  
ClientSampleId :  
PB164381BL

Integration File: autoint1.e  
Quant Time: Oct 25 04:36:24 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



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#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.010 min  
Delta R.T.: 0.013 min  
Response: 2035886  
Conc: 15.47 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB164381BL

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rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014759.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 14:33  
Sample : PB164381BL  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 15.010      | 14.969       | 15.079     | BB       | 150762         | 2035886      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 2035886      |                |               |

FF102124.M Fri Oct 25 05:00:12 2024

## Report of Analysis

|                    |                           |           |                    |                       |           |
|--------------------|---------------------------|-----------|--------------------|-----------------------|-----------|
| Client:            | Chemtech Consulting Group |           | Date Collected:    | 10/24/24              |           |
| Project:           | NJ Soil PT                |           | Date Received:     | 10/24/24              |           |
| Client Sample ID:  | PIBLK-FF014756.D          |           | SDG No.:           | P4495                 |           |
| Lab Sample ID:     | I.BLK-FF014756.D          |           | Matrix:            | Water                 |           |
| Analytical Method: |                           |           | % Solid:           | 0                     | Decanted: |
| Sample Wt/Vol:     | 1000                      | Units: mL | Final Vol:         | 1                     | mL        |
| Soil Aliquot Vol:  |                           | uL        | Test:              | Diesel Range Organics |           |
| Extraction Type:   |                           |           | Injection Volume : |                       |           |
| GPC Factor :       |                           | PH :      |                    |                       |           |
| Prep Method :      | SW3510                    |           |                    |                       |           |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| FF014756.D        | 1         |           | 10/24/24      | FF102424      |

| CAS Number        | Parameter       | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|-----------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                 |       |           |          |            |         |
| DRO               | DRO             | 10.0  | U         | 10.0     | 50.0       | ug/L    |
| <b>SURROGATES</b> |                 |       |           |          |            |         |
| 16416-32-3        | Tetracosane-d50 | 16.3  |           | 29 - 130 | 82%        | SPK: 20 |

### Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014756.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 12:00  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :

Integration File: autoint1.e  
Quant Time: Oct 25 04:35:58 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 15.009 | 2144842  | 16.298 ug/ml |
| Target Compounds              |        |          |              |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

(m)=manual int.

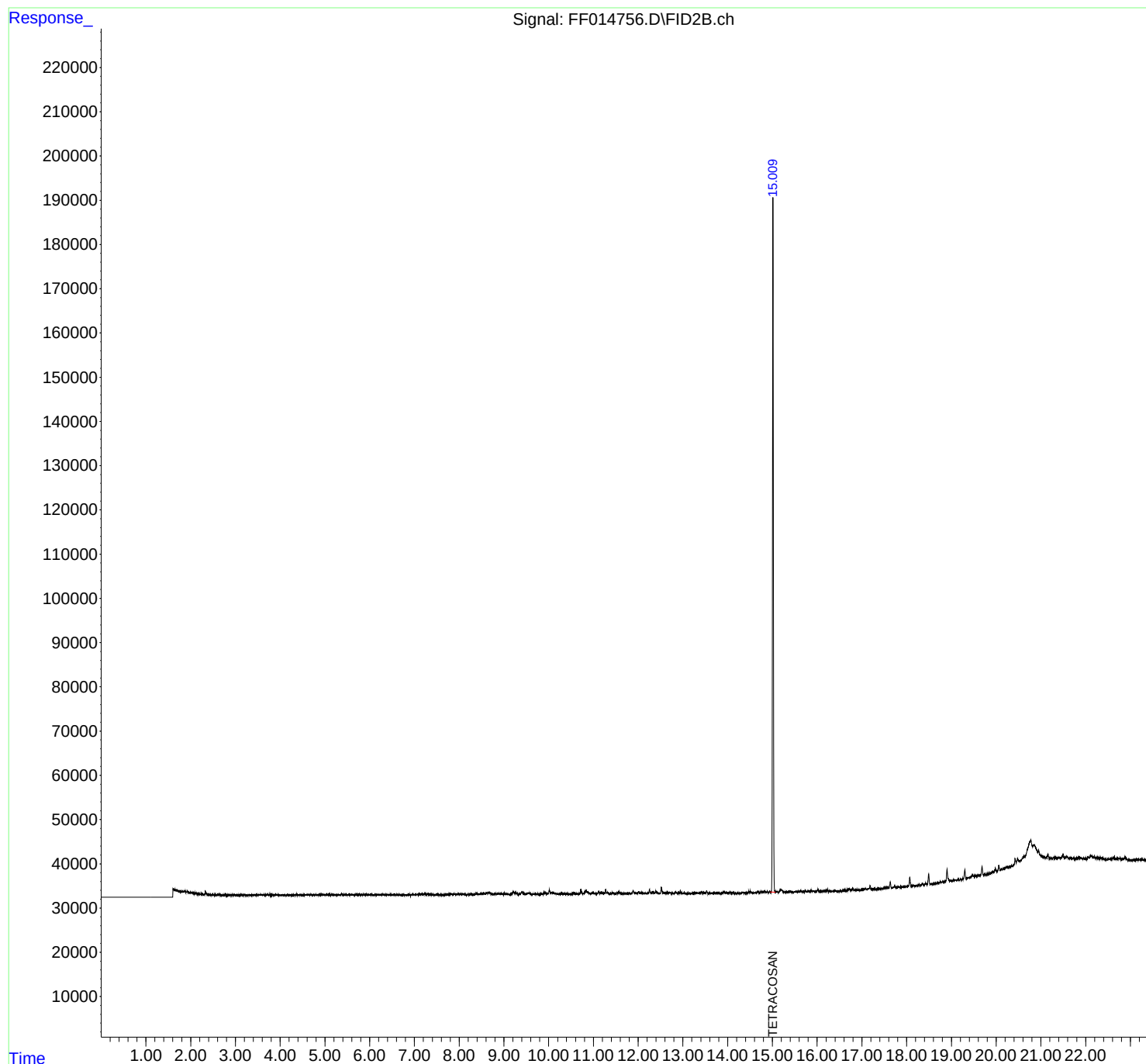


Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014756.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 12:00  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

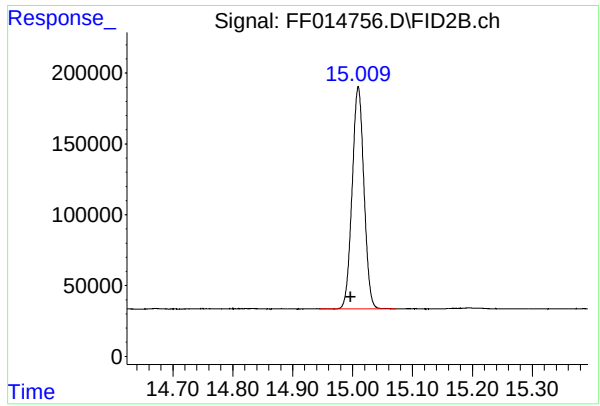
Instrument :  
FID\_F  
ClientSampleId :

Integration File: autoint1.e  
Quant Time: Oct 25 04:35:58 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



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#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.009 min

Delta R.T.: 0.012 min

Response: 2144842

Conc: 16.30 ug/ml

Instrument :

FID\_F

ClientSampleId :

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014756.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 12:00  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 15.009      | 14.944       | 15.072     | BB       | 156820         | 2144842      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 2144842      |                |               |

FF102124.M Fri Oct 25 04:59:23 2024

## Report of Analysis

|                    |                           |           |                    |                       |           |
|--------------------|---------------------------|-----------|--------------------|-----------------------|-----------|
| Client:            | Chemtech Consulting Group |           | Date Collected:    | 10/24/24              |           |
| Project:           | NJ Soil PT                |           | Date Received:     | 10/24/24              |           |
| Client Sample ID:  | PIBLK-FF014763.D          |           | SDG No.:           | P4495                 |           |
| Lab Sample ID:     | I.BLK-FF014763.D          |           | Matrix:            | Water                 |           |
| Analytical Method: |                           |           | % Solid:           | 0                     | Decanted: |
| Sample Wt/Vol:     | 1000                      | Units: mL | Final Vol:         | 1                     | mL        |
| Soil Aliquot Vol:  |                           | uL        | Test:              | Diesel Range Organics |           |
| Extraction Type:   |                           |           | Injection Volume : |                       |           |
| GPC Factor :       |                           | PH :      |                    |                       |           |
| Prep Method :      | SW3510                    |           |                    |                       |           |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| FF014763.D        | 1         |           | 10/24/24      | FF102424      |

| CAS Number        | Parameter       | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|-----------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                 |       |           |          |            |         |
| DRO               | DRO             | 10.0  | U         | 10.0     | 50.0       | ug/L    |
| <b>SURROGATES</b> |                 |       |           |          |            |         |
| 16416-32-3        | Tetracosane-d50 | 17.1  |           | 29 - 130 | 85%        | SPK: 20 |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014763.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 16:35  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :

Integration File: autoint1.e  
Quant Time: Oct 25 04:37:00 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 15.010 | 2244176  | 17.053 ug/ml |
| Target Compounds              |        |          |              |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

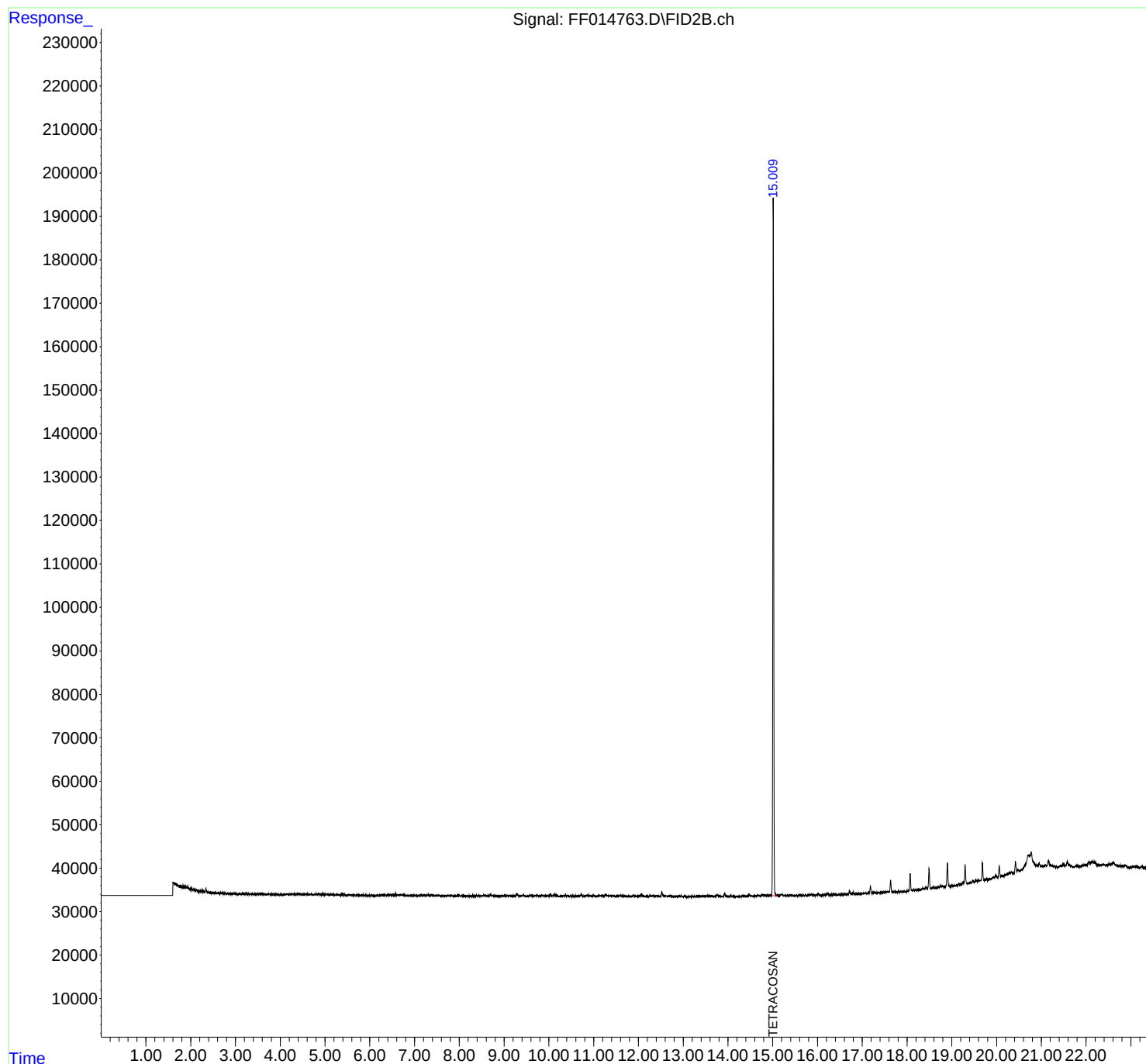
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014763.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 16:35  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

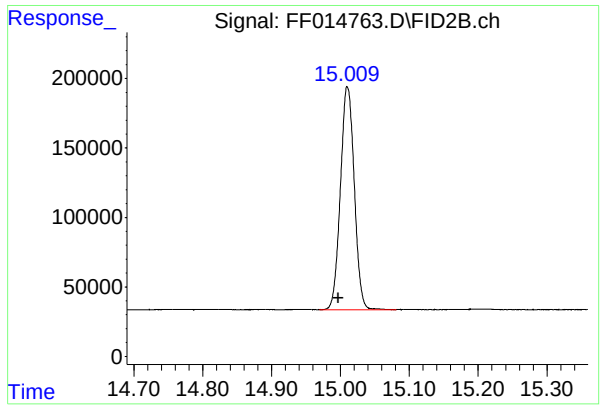
Instrument :  
FID\_F  
ClientSampleId :

Integration File: autoint1.e  
Quant Time: Oct 25 04:37:00 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



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#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.010 min

Delta R.T.: 0.013 min

Response: 2244176

Conc: 17.05 ug/ml

Instrument :

FID\_F

ClientSampleId :

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014763.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 16:35  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 15.010      | 14.969       | 15.081     | BB       | 159852         | 2244176      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 2244176      |                |               |

FF102124.M Fri Oct 25 05:00:41 2024



## Report of Analysis

|                    |                           |           |                    |                       |           |
|--------------------|---------------------------|-----------|--------------------|-----------------------|-----------|
| Client:            | Chemtech Consulting Group |           | Date Collected:    | 10/24/24              |           |
| Project:           | NJ Soil PT                |           | Date Received:     | 10/24/24              |           |
| Client Sample ID:  | PIBLK-FF014772.D          |           | SDG No.:           | P4495                 |           |
| Lab Sample ID:     | I.BLK-FF014772.D          |           | Matrix:            | Water                 |           |
| Analytical Method: |                           |           | % Solid:           | 0                     | Decanted: |
| Sample Wt/Vol:     | 1000                      | Units: mL | Final Vol:         | 1                     | mL        |
| Soil Aliquot Vol:  |                           | uL        | Test:              | Diesel Range Organics |           |
| Extraction Type:   |                           |           | Injection Volume : |                       |           |
| GPC Factor :       |                           | PH :      |                    |                       |           |
| Prep Method :      | SW3510                    |           |                    |                       |           |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| FF014772.D        | 1         |           | 10/24/24      | FF102424      |

| CAS Number        | Parameter       | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|-----------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                 |       |           |          |            |         |
| DRO               | DRO             | 10.0  | U         | 10.0     | 50.0       | ug/L    |
| <b>SURROGATES</b> |                 |       |           |          |            |         |
| 16416-32-3        | Tetracosane-d50 | 16.1  |           | 29 - 130 | 80%        | SPK: 20 |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014772.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 22:52  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :

Integration File: autoint1.e  
Quant Time: Oct 25 04:38:24 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 15.015 | 2113651  | 16.061 ug/ml |
| Target Compounds              |        |          |              |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

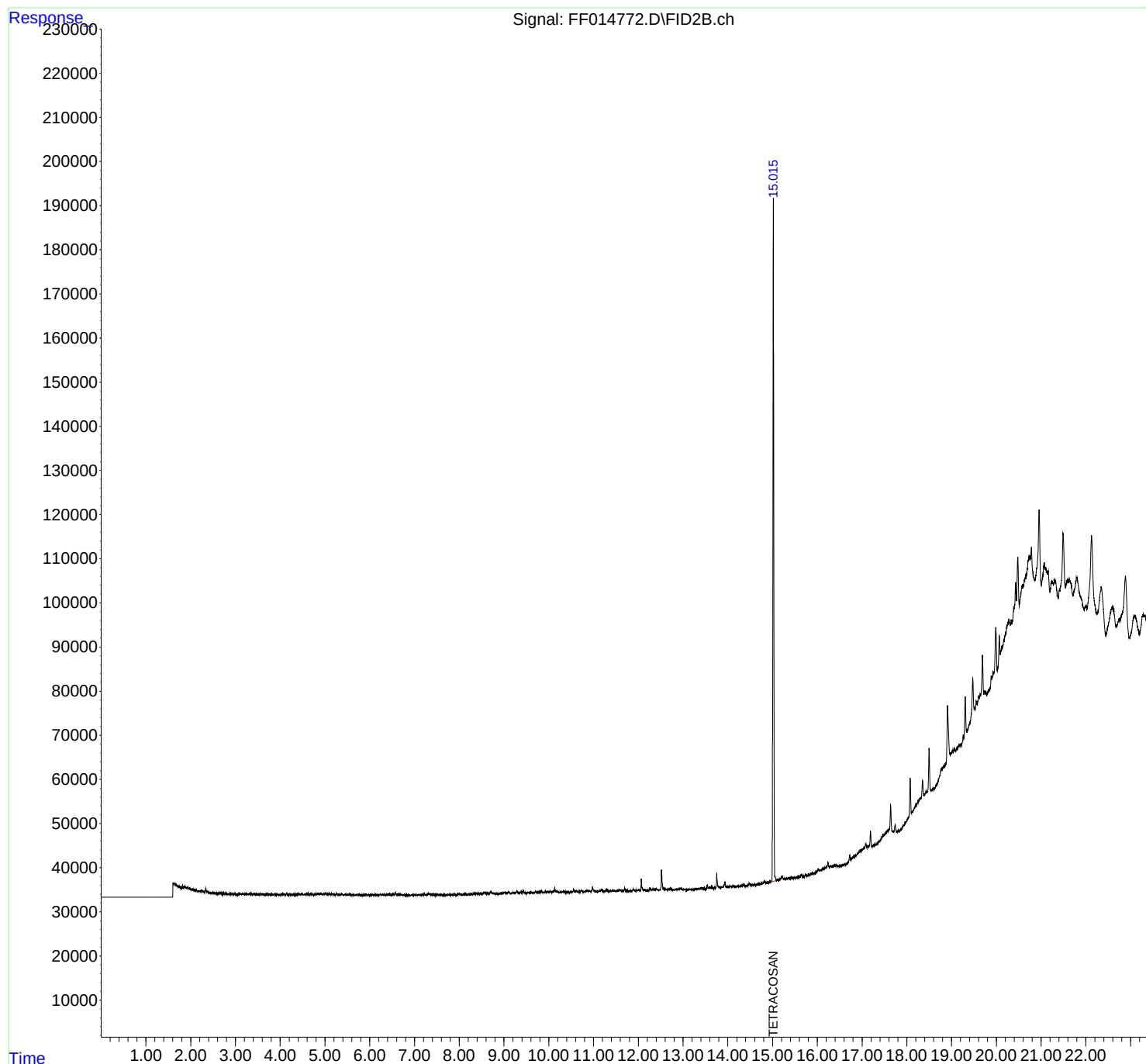
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014772.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 22:52  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

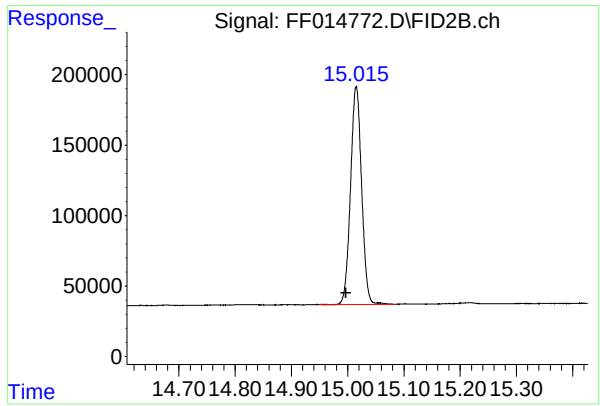
Instrument :  
FID\_F  
ClientSampleId :

Integration File: autoint1.e  
Quant Time: Oct 25 04:38:24 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



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#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.015 min  
Delta R.T.: 0.018 min  
Response: 2113651  
Conc: 16.06 ug/ml

Instrument :  
FID\_F  
ClientSampleId :

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rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014772.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 22:52  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 15.015      | 14.949       | 15.086     | BB       | 154771         | 2113651      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 2113651      |                |               |

FF102124.M Fri Oct 25 05:01:21 2024

## Report of Analysis

|                    |                           |                    |                       |
|--------------------|---------------------------|--------------------|-----------------------|
| Client:            | Chemtech Consulting Group | Date Collected:    | 10/25/24              |
| Project:           | NJ Soil PT                | Date Received:     | 10/25/24              |
| Client Sample ID:  | PIBLK-FF014775.D          | SDG No.:           | P4495                 |
| Lab Sample ID:     | I.BLK-FF014775.D          | Matrix:            | Water                 |
| Analytical Method: | 8015D DRO                 | % Solid:           | 0                     |
| Sample Wt/Vol:     | 1000                      | Units:             | mL                    |
| Soil Aliquot Vol:  |                           |                    | uL                    |
| Extraction Type:   |                           | Test:              | Diesel Range Organics |
| GPC Factor :       |                           | Injection Volume : |                       |
| Prep Method :      | SW3510                    |                    |                       |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| FF014775.D        | 1         |           | 10/25/24      | FF102524      |

| CAS Number        | Parameter       | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|-----------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                 |       |           |          |            |         |
| DRO               | DRO             | 10.0  | U         | 10.0     | 50.0       | ug/L    |
| <b>SURROGATES</b> |                 |       |           |          |            |         |
| 16416-32-3        | Tetracosane-d50 | 19.9  |           | 29 - 130 | 99%        | SPK: 20 |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014775.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 06:11  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
I.BLK

Integration File: autoint1.e  
Quant Time: Oct 26 04:02:05 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 15.012 | 2612293  | 19.850 ug/ml |
| Target Compounds              |        |          |              |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

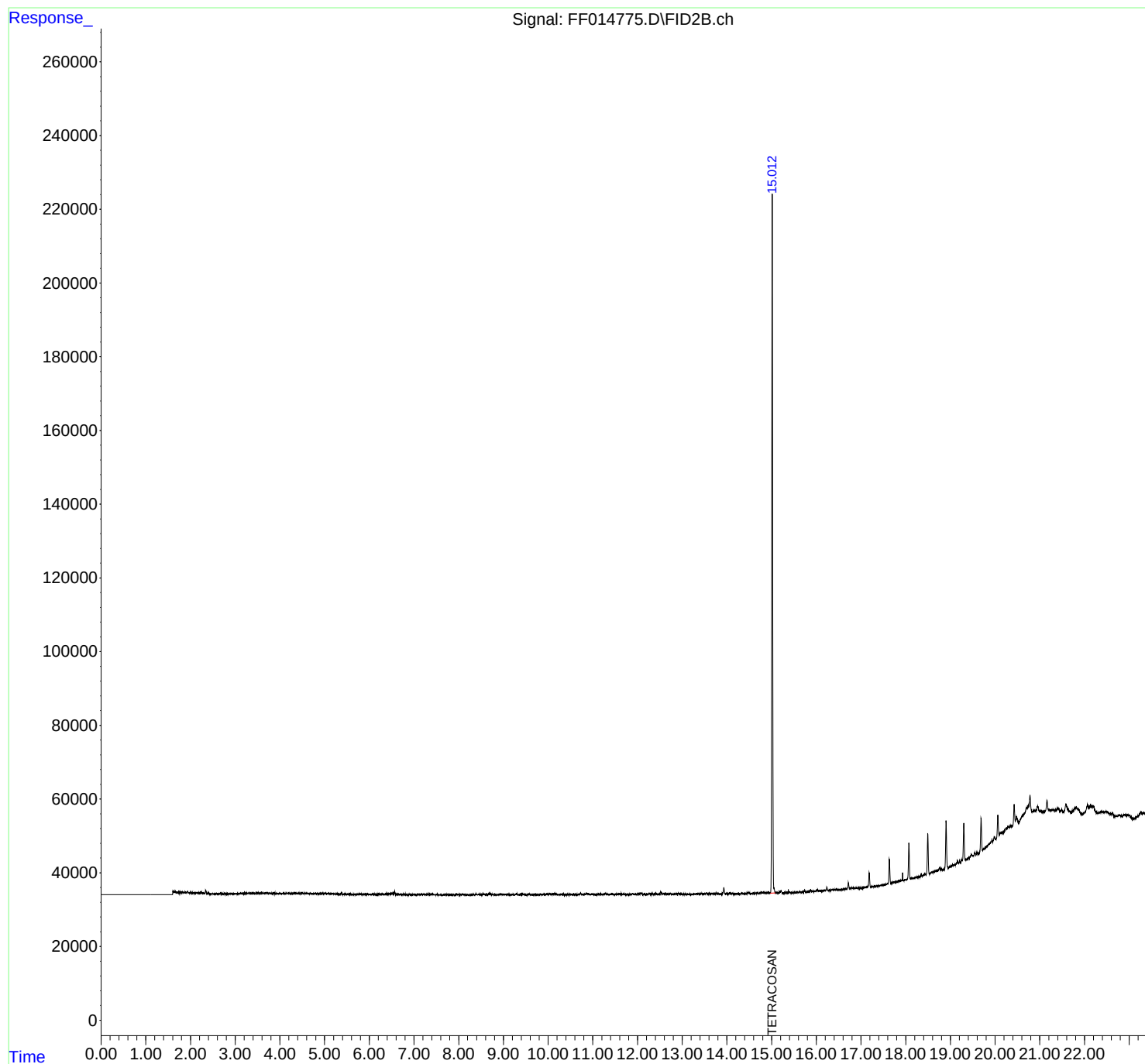
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014775.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 06:11  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
I.BLK

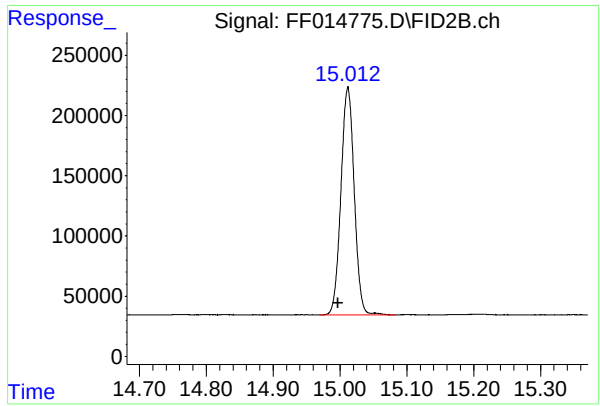
Integration File: autoint1.e  
Quant Time: Oct 26 04:02:05 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



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#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.012 min  
Delta R.T.: 0.015 min  
Response: 2612293  
Conc: 19.85 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
I.BLK

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rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014775.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 06:11  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 15.012      | 14.969       | 15.084     | BB       | 189568         | 2612293      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 2612293      |                |               |

FF102124.M Sat Oct 26 04:40:45 2024

## Report of Analysis

|                    |                           |                    |                       |
|--------------------|---------------------------|--------------------|-----------------------|
| Client:            | Chemtech Consulting Group | Date Collected:    | 10/25/24              |
| Project:           | NJ Soil PT                | Date Received:     | 10/25/24              |
| Client Sample ID:  | PIBLK-FF014786.D          | SDG No.:           | P4495                 |
| Lab Sample ID:     | I.BLK-FF014786.D          | Matrix:            | Water                 |
| Analytical Method: | 8015D DRO                 | % Solid:           | 0                     |
| Sample Wt/Vol:     | 1000                      | Units:             | mL                    |
| Soil Aliquot Vol:  |                           |                    | uL                    |
| Extraction Type:   |                           | Test:              | Diesel Range Organics |
| GPC Factor :       |                           | Injection Volume : |                       |
| Prep Method :      | SW3510                    |                    |                       |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| FF014786.D        | 1         |           | 10/25/24      | FF102524      |

| CAS Number        | Parameter       | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|-----------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                 |       |           |          |            |         |
| DRO               | DRO             | 10.0  | U         | 10.0     | 50.0       | ug/L    |
| <b>SURROGATES</b> |                 |       |           |          |            |         |
| 16416-32-3        | Tetracosane-d50 | 16.6  |           | 29 - 130 | 83%        | SPK: 20 |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014786.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 12:17  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
I.BLK

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/28/2024  
Supervised By :Ankita Jodhani 10/28/2024

Integration File: autoint1.e  
Quant Time: Oct 26 04:03:39 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units    |
|-------------------------------|--------|----------|---------------|
| -----                         |        |          |               |
| System Monitoring Compounds   |        |          |               |
| 9) S TETRACOSANE-d50 (SURR... | 15.010 | 2186974  | 16.618 ug/mlm |
| Target Compounds              |        |          |               |
| -----                         |        |          |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102524\  
Data File : FF014786.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 12:17  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

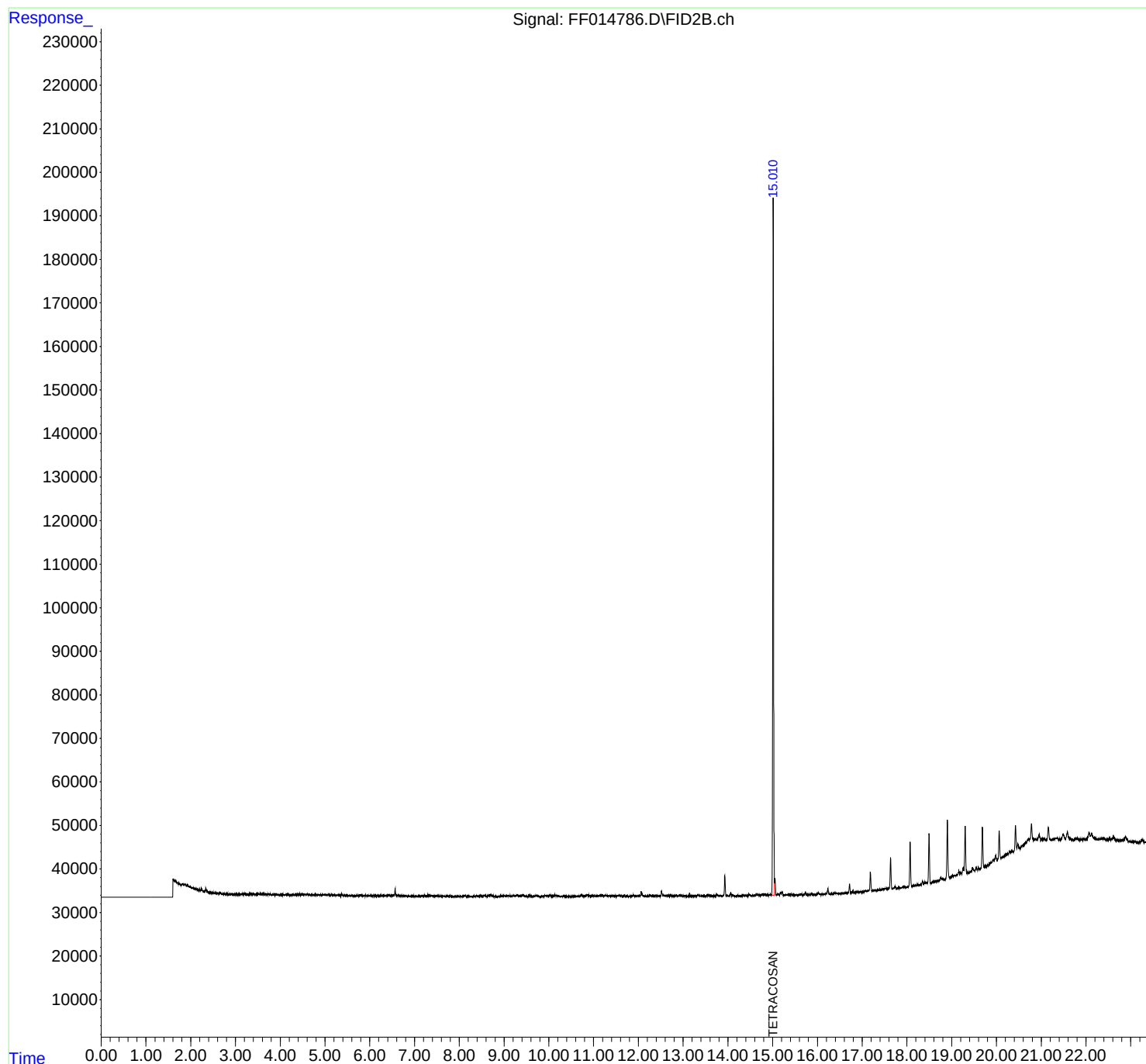
Instrument :  
FID\_F  
ClientSampleId :  
I.BLK

Manual Integrations  
APPROVED

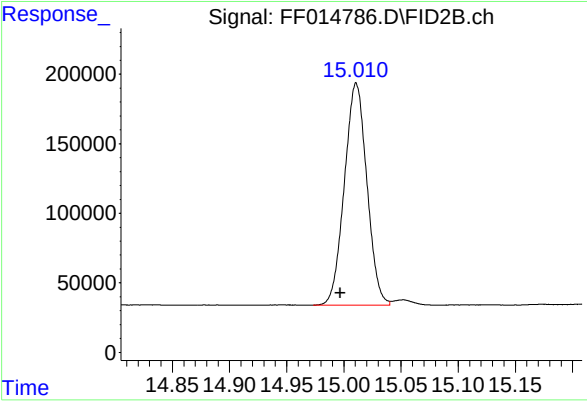
Reviewed By :Yogesh Patel 10/28/2024  
Supervised By :Ankita Jodhani 10/28/2024

Integration File: autoint1.e  
Quant Time: Oct 26 04:03:39 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



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#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.010 min  
Delta R.T.: 0.013 min  
Response: 2186974  
Conc: 16.62 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
I.BLK

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/28/2024  
Supervised By :Ankita Jodhani 10/28/2024

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rteres

Instrument :  
FID\_F  
LabSampleId :  
I.BLK

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF10252  
Data File : FF014786.D  
Signal(s) : FID2B.ch  
Acq On : 25 Oct 2024 12:17  
Sample : I.BLK  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/28/2024  
Supervised By :Ankita Jodhani 10/28/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 15.011      | 14.969       | 15.085     | BB       | 159794         | 2232188      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 2232188      |                |               |

FF102124.M Sat Oct 26 04:41:44 2024

## Report of Analysis

|                    |                           |          |                    |                       |           |
|--------------------|---------------------------|----------|--------------------|-----------------------|-----------|
| Client:            | Chemtech Consulting Group |          | Date Collected:    |                       |           |
| Project:           | NJ Soil PT                |          | Date Received:     |                       |           |
| Client Sample ID:  | PB164381BS                |          | SDG No.:           | P4495                 |           |
| Lab Sample ID:     | PB164381BS                |          | Matrix:            | SOIL                  |           |
| Analytical Method: | 8015D DRO                 |          | % Solid:           | 100                   | Decanted: |
| Sample Wt/Vol:     | 30.01                     | Units: g | Final Vol:         | 1                     | mL        |
| Soil Aliquot Vol:  |                           | uL       | Test:              | Diesel Range Organics |           |
| Extraction Type:   |                           |          | Injection Volume : |                       |           |
| GPC Factor :       |                           | PH :     |                    |                       |           |
| Prep Method :      | SW3541                    |          |                    |                       |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| FF014760.D        | 1         | 10/24/24 11:10 | 10/24/24 15:02 | PB164381      |

| CAS Number        | Parameter       | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|-----------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                 |       |           |          |            |                   |
| DRO               | DRO             | 6640  |           | 185      | 1670       | ug/kg             |
| <b>SURROGATES</b> |                 |       |           |          |            |                   |
| 16416-32-3        | Tetracosane-d50 | 15.9  |           | 37 - 130 | 80%        | SPK: 20           |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014760.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 15:02  
Operator : YP\AJ  
Sample : PB164381BS  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
PB164381BS

Integration File: autoint1.e  
Quant Time: Oct 25 04:36:32 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 15.011 | 2092640  | 15.901 ug/ml |
| Target Compounds              |        |          |              |
| 2) N-DECANE                   | 4.570  | 2698037  | 18.887 ug/ml |
| 3) N-DODECANE                 | 6.733  | 2849137  | 19.634 ug/ml |
| 4) N-TETRADECANE              | 8.557  | 2800314  | 19.104 ug/ml |
| 5) N-HEXADECANE               | 10.163 | 2897469  | 19.717 ug/ml |
| 6) N-OCTADECANE               | 11.605 | 3027621  | 20.167 ug/ml |
| 7) N-EICOSANE                 | 12.915 | 3029295  | 19.969 ug/ml |
| 8) N-DOCOSANE                 | 14.112 | 3028533  | 20.581 ug/ml |
| 10) N-TETRACOSANE             | 15.214 | 3027949  | 20.603 ug/ml |
| 11) N-HEXACOSANE              | 16.234 | 2969626  | 20.331 ug/ml |
| 12) N-OCTACOSANE              | 17.183 | 2918755  | 20.200 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

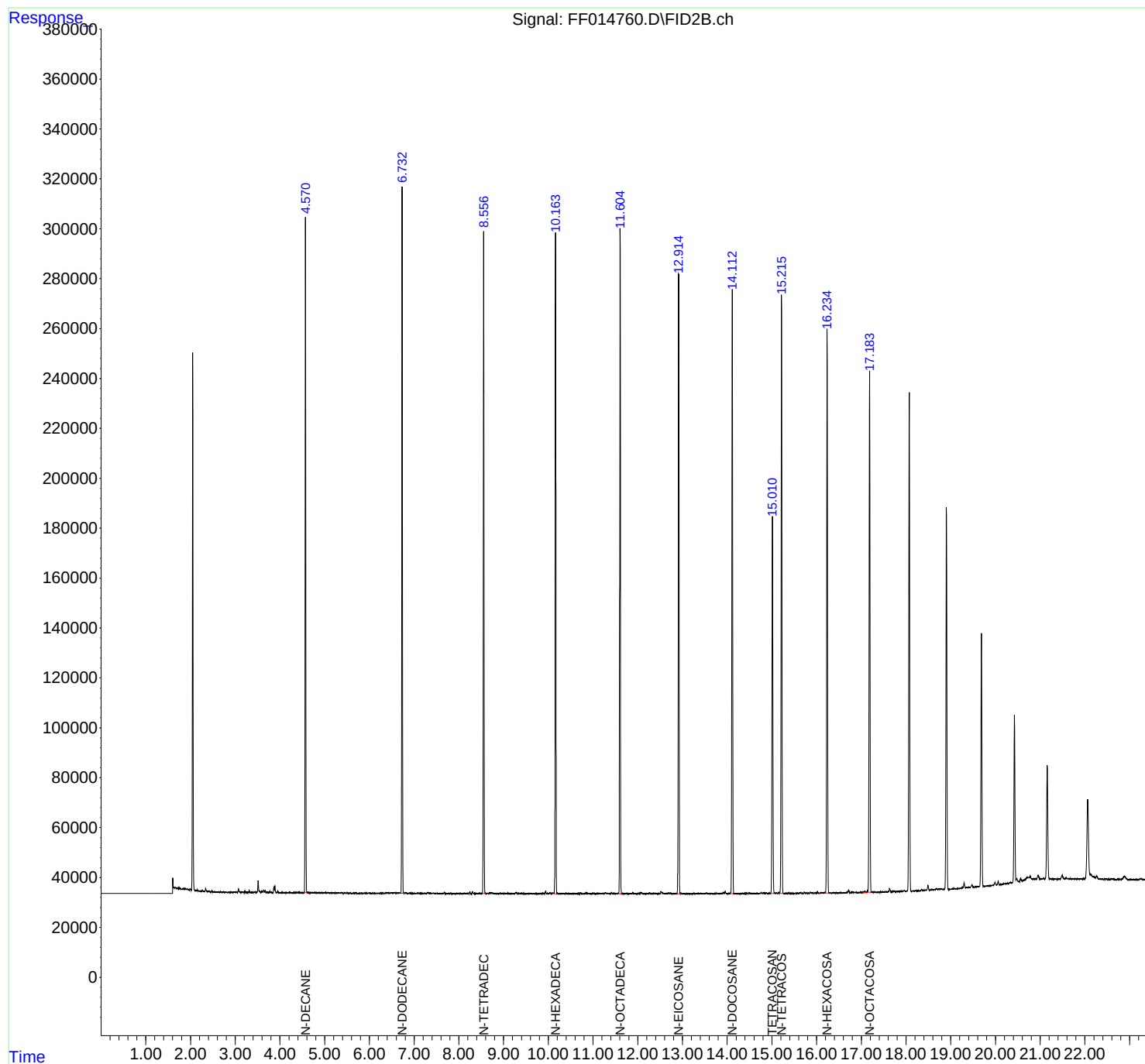
(m)=manual int.

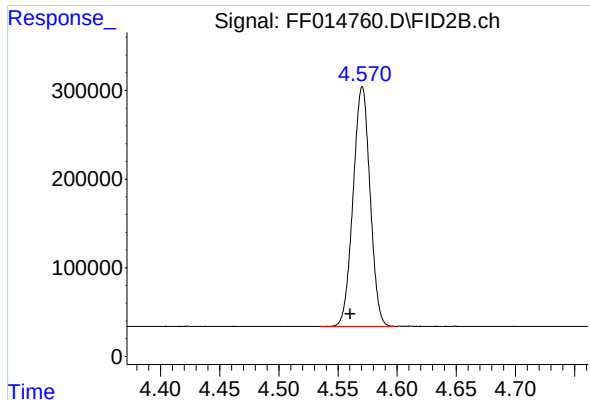
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014760.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 15:02  
Operator : YP\AJ  
Sample : PB164381BS  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
PB164381BS

Integration File: autoint1.e  
Quant Time: Oct 25 04:36:32 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

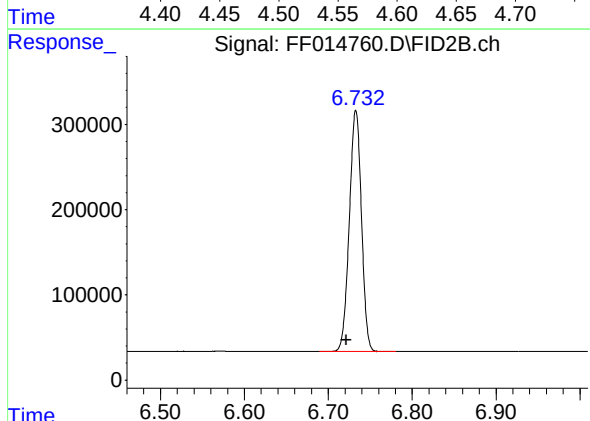




#2 N-DECANE

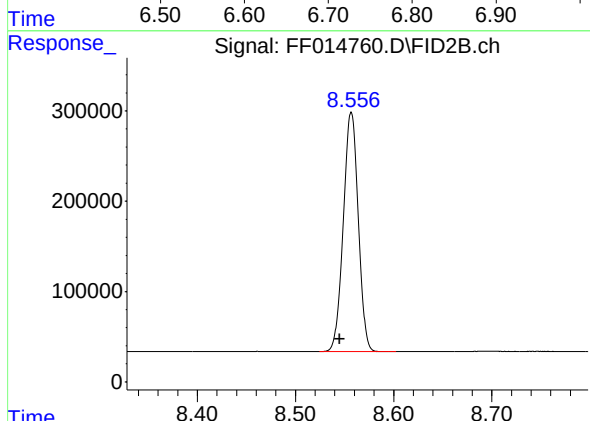
R.T.: 4.570 min  
Delta R.T.: 0.010 min  
Response: 2698037  
Conc: 18.89 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB164381BS



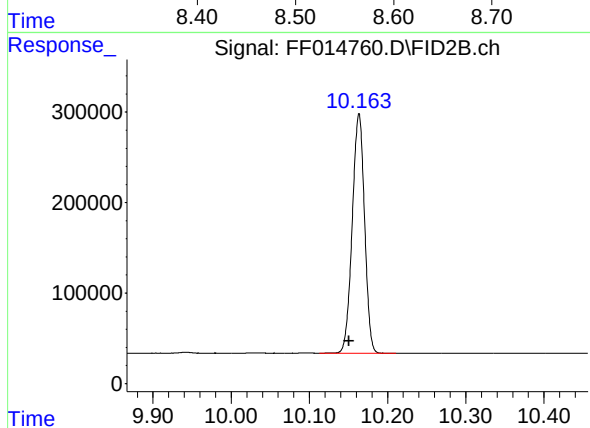
#3 N-DODECANE

R.T.: 6.733 min  
Delta R.T.: 0.012 min  
Response: 2849137  
Conc: 19.63 ug/ml



#4 N-TETRADECANE

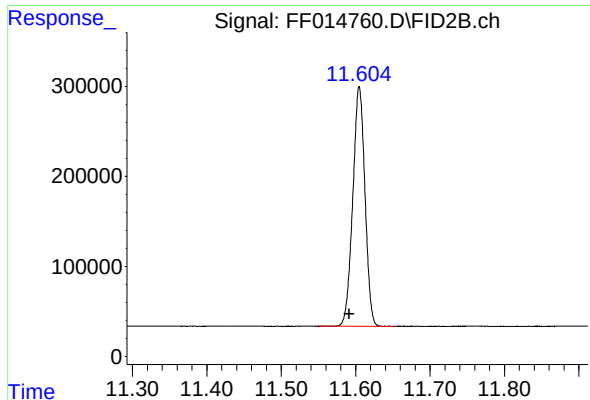
R.T.: 8.557 min  
Delta R.T.: 0.012 min  
Response: 2800314  
Conc: 19.10 ug/ml



#5 N-HEXADECANE

R.T.: 10.163 min  
Delta R.T.: 0.013 min  
Response: 2897469  
Conc: 19.72 ug/ml

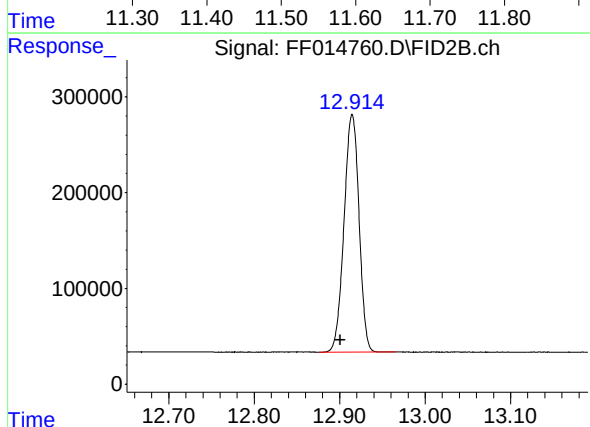
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#6 N-OCTADECANE

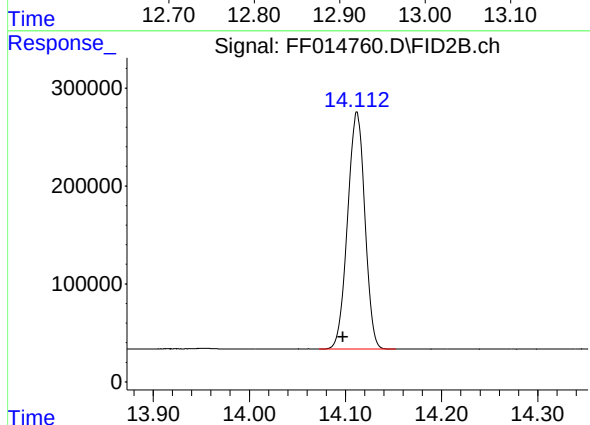
R.T.: 11.605 min  
Delta R.T.: 0.013 min  
Response: 3027621  
Conc: 20.17 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB164381BS



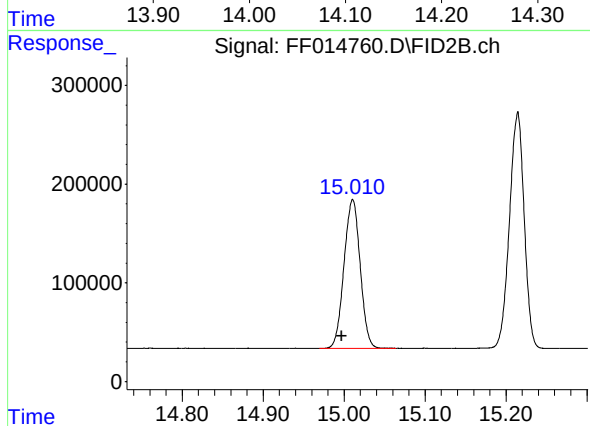
#7 N-EICOSANE

R.T.: 12.915 min  
Delta R.T.: 0.014 min  
Response: 3029295  
Conc: 19.97 ug/ml



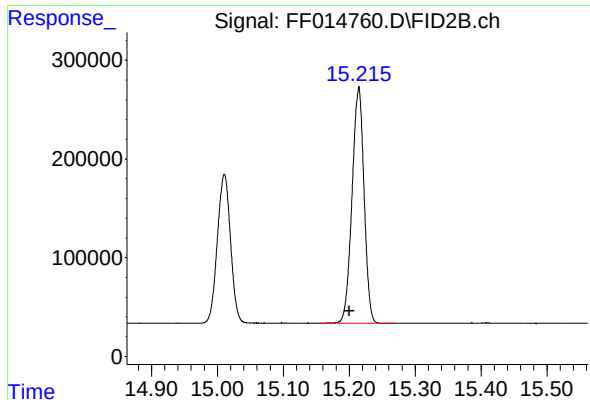
#8 N-DOCOSANE

R.T.: 14.112 min  
Delta R.T.: 0.014 min  
Response: 3028533  
Conc: 20.58 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

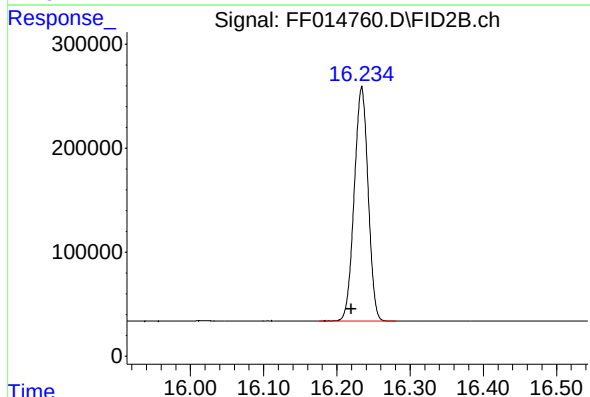
R.T.: 15.011 min  
Delta R.T.: 0.014 min  
Response: 2092640  
Conc: 15.90 ug/ml



#10 N-TETRACOSANE

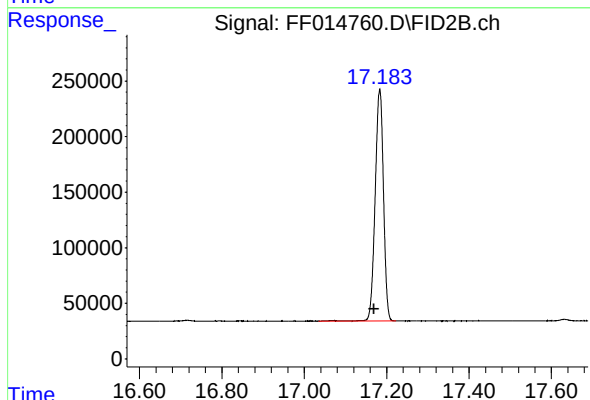
R.T.: 15.214 min  
Delta R.T.: 0.014 min  
Response: 3027949  
Conc: 20.60 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB164381BS



#11 N-HEXACOSANE

R.T.: 16.234 min  
Delta R.T.: 0.014 min  
Response: 2969626  
Conc: 20.33 ug/ml



#12 N-OCTACOSANE

R.T.: 17.183 min  
Delta R.T.: 0.014 min  
Response: 2918755  
Conc: 20.20 ug/ml

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014760.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 15:02  
Sample : PB164381BS  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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                       | 4.570       | 4.534        | 4.599      | BB       | 270936         | 2698037      | 89.06%         | 8.609%        |
| 2                       | 6.733       | 6.689        | 6.781      | BB       | 283259         | 2849137      | 94.05%         | 9.091%        |
| 3                       | 8.557       | 8.524        | 8.602      | BB       | 264770         | 2800314      | 92.44%         | 8.935%        |
| 4                       | 10.163      | 10.112       | 10.211     | BB       | 266184         | 2897469      | 95.65%         | 9.245%        |
| 5                       | 11.605      | 11.551       | 11.654     | BB       | 265714         | 3027621      | 99.94%         | 9.661%        |
| 6                       | 12.915      | 12.876       | 12.966     | BB       | 248035         | 3029295      | 100.00%        | 9.666%        |
| 7                       | 14.112      | 14.072       | 14.152     | BB       | 242292         | 3028533      | 99.97%         | 9.664%        |
| 8                       | 15.011      | 14.969       | 15.064     | BB       | 150982         | 2092640      | 69.08%         | 6.677%        |
| 9                       | 15.214      | 15.154       | 15.271     | BB       | 238579         | 3027949      | 99.96%         | 9.662%        |
| 10                      | 16.234      | 16.176       | 16.281     | BB       | 225666         | 2969626      | 98.03%         | 9.476%        |
| 11                      | 17.183      | 17.036       | 17.222     | BB       | 207550         | 2918755      | 96.35%         | 9.313%        |
| Sum of corrected areas: |             |              |            |          |                | 31339375     |                |               |

FF102124.M Fri Oct 25 05:00:26 2024

## Report of Analysis

|                    |                           |                    |                       |
|--------------------|---------------------------|--------------------|-----------------------|
| Client:            | Chemtech Consulting Group | Date Collected:    | 10/23/24              |
| Project:           | NJ Soil PT                | Date Received:     | 10/23/24              |
| Client Sample ID:  | EX-5-TPH-1MS              | SDG No.:           | P4495                 |
| Lab Sample ID:     | P4518-01MS                | Matrix:            | SOIL                  |
| Analytical Method: | 8015D DRO                 | % Solid:           | 78.5                  |
| Sample Wt/Vol:     | 30.05                     | Units:             | g                     |
| Soil Aliquot Vol:  |                           |                    | uL                    |
| Extraction Type:   |                           | Test:              | Diesel Range Organics |
| GPC Factor :       |                           | Injection Volume : |                       |
| Prep Method :      | SW3541                    |                    |                       |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| FF014766.D        | 1         | 10/24/24 11:10 | 10/24/24 19:58 | PB164381      |

| CAS Number        | Parameter       | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|-----------------|--------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                 |        |           |          |            |                   |
| DRO               | DRO             | 968000 | E         | 235      | 2120       | ug/kg             |
| <b>SURROGATES</b> |                 |        |           |          |            |                   |
| 16416-32-3        | Tetracosane-d50 | 11.5   |           | 37 - 130 | 58%        | SPK: 20           |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
 Data File : FF014766.D  
 Signal(s) : FID2B.ch  
 Acq On : 24 Oct 2024 19:58  
 Operator : YP\AJ  
 Sample : P4518-01MS  
 Misc :  
 ALS Vial : 63 Sample Multiplier: 1

**Instrument :**

FID\_F

**ClientSampleId :**

EX-5-TPH-1MS

**Manual Integrations****APPROVED**

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e  
 Quant Time: Oct 25 04:37:27 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
 Quant Title :  
 QLast Update : Tue Oct 22 08:35:55 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal Phase : Rxi-1ms  
 Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units    |
|-------------------------------|--------|----------|---------------|
| -----                         |        |          |               |
| System Monitoring Compounds   |        |          |               |
| 9) S TETRACOSANE-d50 (SURR... | 15.022 | 1518855  | 11.541 ug/mlm |
| Target Compounds              |        |          |               |
| 2) N-DECANE                   | 4.573  | 3474945  | 24.325 ug/ml  |
| 3) N-DODECANE                 | 6.743  | 3565980  | 24.574 ug/mlm |
| 4) N-TETRADECANE              | 8.535  | 11273646 | 76.908 ug/mlm |
| 5) N-HEXADECANE               | 10.148 | 11962366 | 81.404 ug/mlm |
| 6) N-OCTADECANE               | 11.581 | 3096155  | 20.623 ug/mlm |
| 7) N-EICOSANE                 | 12.894 | 5544084  | 36.546 ug/mlm |
| 8) N-DOCOSANE                 | 14.128 | 3087943  | 20.985 ug/mlm |
| 10) N-TETRACOSANE             | 15.205 | 759822   | 5.170 ug/mlm  |
| 11) N-HEXACOSANE              | 16.246 | 3143947  | 21.525 ug/mlm |
| 12) N-OCTACOSANE              | 17.197 | 3695216  | 25.574 ug/mlm |
| -----                         |        |          |               |

(f)=RT Delta &gt; 1/2 Window

(m)=manual int.



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014766.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 19:58  
Operator : YP\AJ  
Sample : P4518-01MS  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

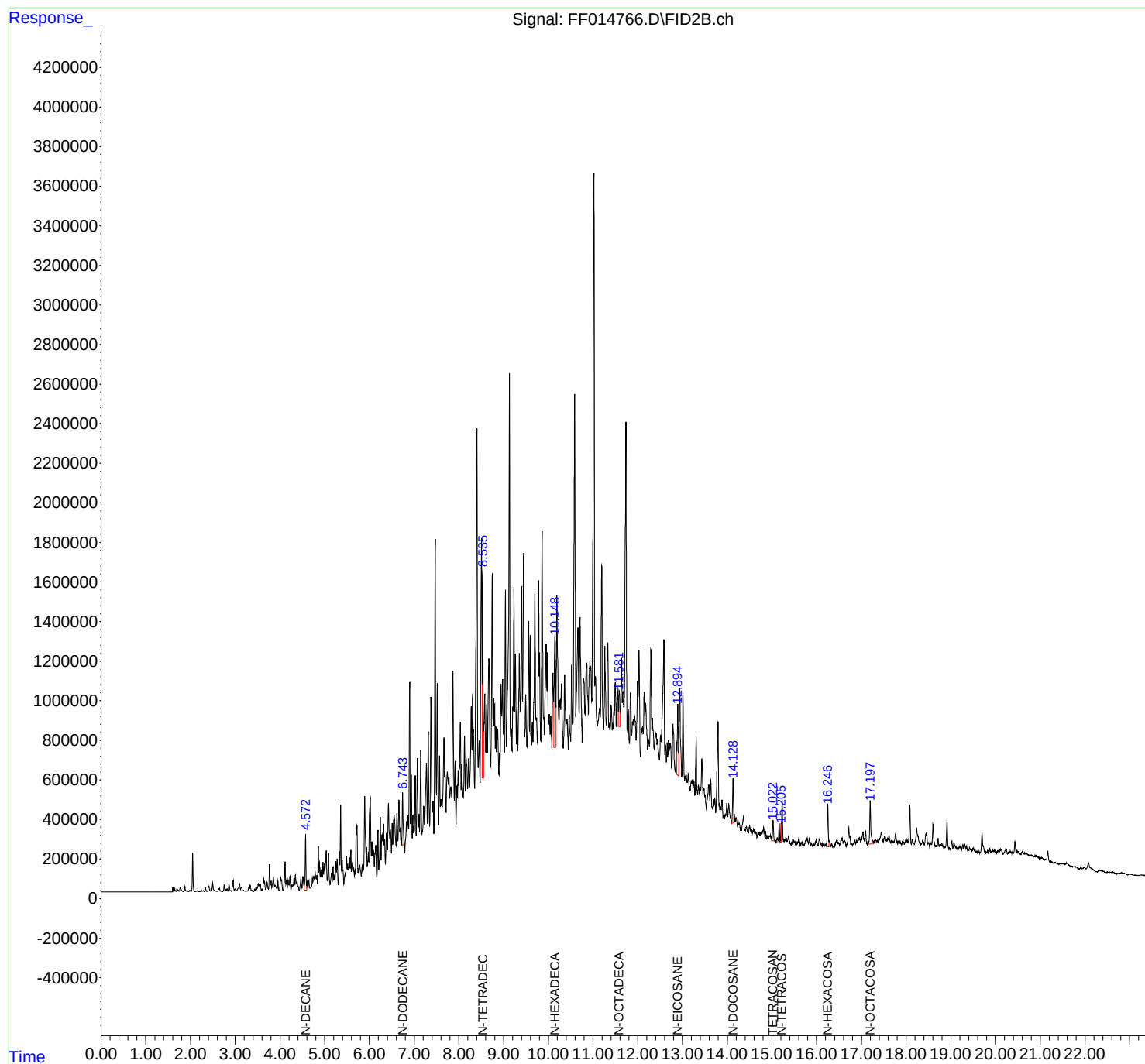
Instrument :  
FID\_F  
ClientSampleId :  
EX-5-TPH-1MS

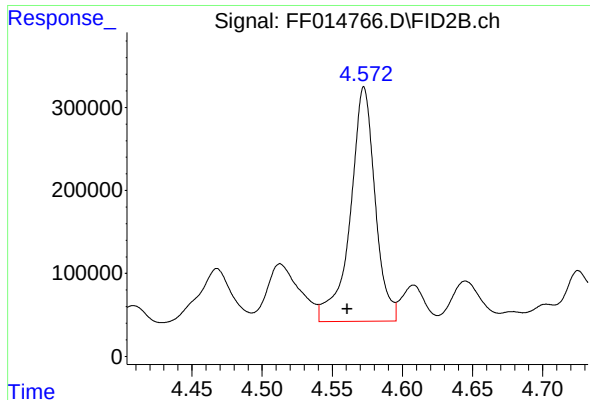
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e  
Quant Time: Oct 25 04:37:27 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





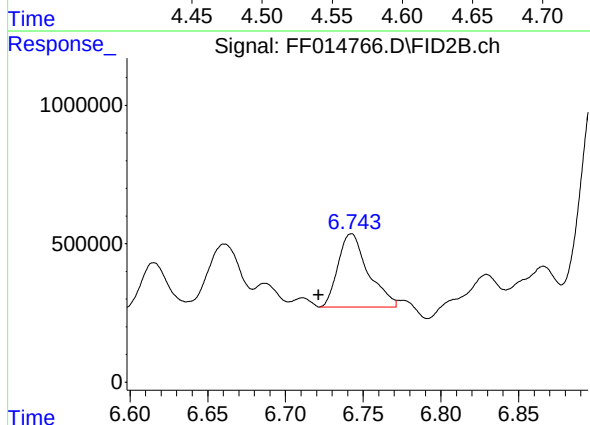
#2 N-DECANE

R.T.: 4.573 min  
Delta R.T.: 0.012 min  
Response: 3474945  
Conc: 24.33 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EX-5-TPH-1MS

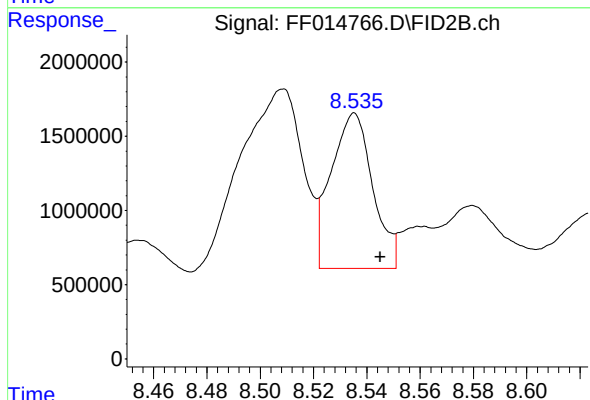
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



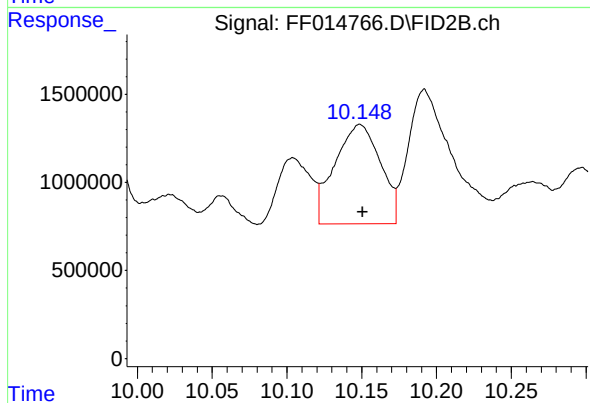
#3 N-DODECANE

R.T.: 6.743 min  
Delta R.T.: 0.021 min  
Response: 3565980  
Conc: 24.57 ug/ml m



#4 N-TETRADECANE

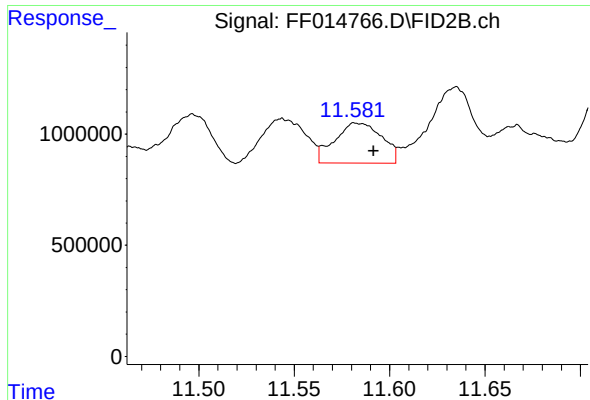
R.T.: 8.535 min  
Delta R.T.: -0.010 min  
Response: 11273646  
Conc: 76.91 ug/ml m



#5 N-HEXADECANE

R.T.: 10.148 min  
Delta R.T.: -0.002 min  
Response: 11962366  
Conc: 81.40 ug/ml m

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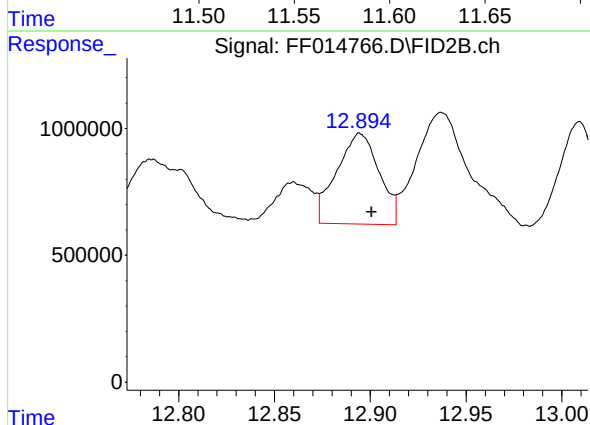
#6 N-OCTADECANE

R.T.: 11.581 min  
Delta R.T.: -0.011 min  
Response: 3096155  
Conc: 20.62 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EX-5-TPH-1MS

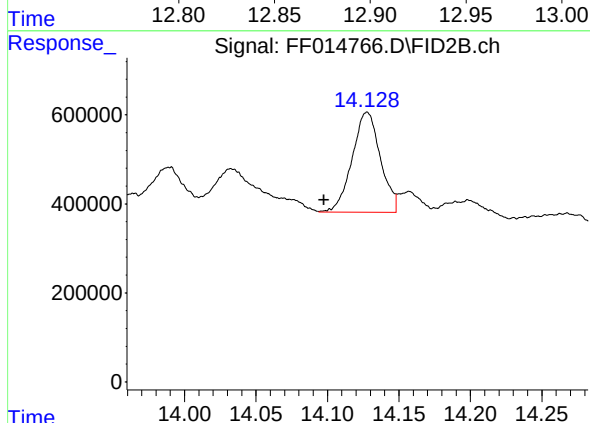
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



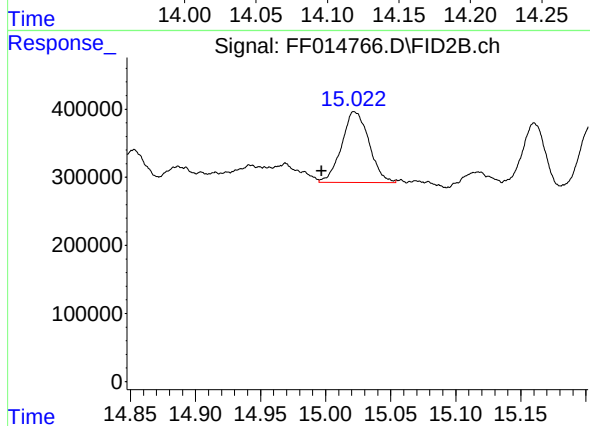
#7 N-EICOSANE

R.T.: 12.894 min  
Delta R.T.: -0.007 min  
Response: 5544084  
Conc: 36.55 ug/ml m



#8 N-DOCOSANE

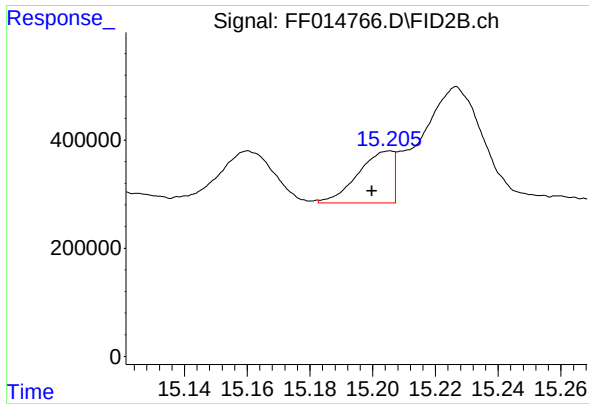
R.T.: 14.128 min  
Delta R.T.: 0.030 min  
Response: 3087943  
Conc: 20.98 ug/ml m



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.022 min  
Delta R.T.: 0.025 min  
Response: 1518855  
Conc: 11.54 ug/ml m

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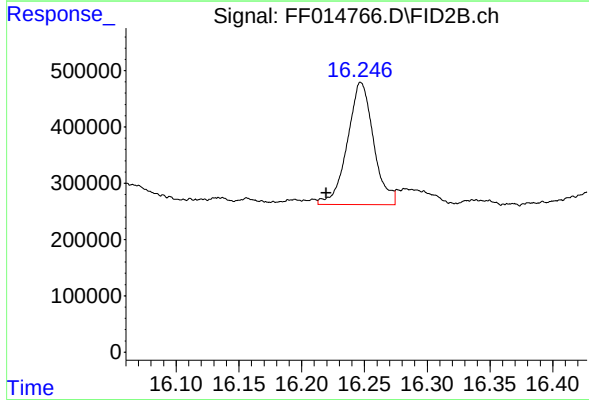
#10 N-TETRACOSANE

R.T.: 15.205 min  
Delta R.T.: 0.005 min  
Response: 759822  
Conc: 5.17 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EX-5-TPH-1MS

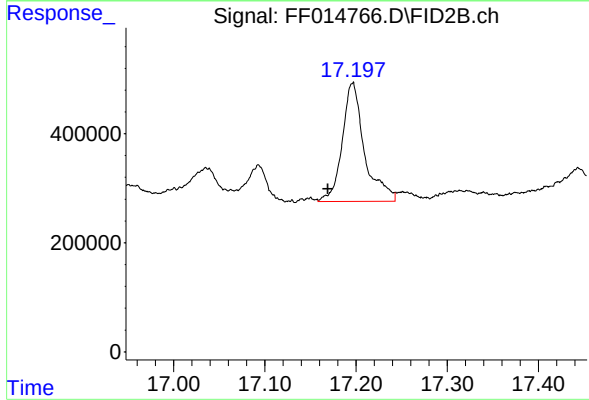
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



#11 N-HEXACOSANE

R.T.: 16.246 min  
Delta R.T.: 0.027 min  
Response: 3143947  
Conc: 21.52 ug/ml m



#12 N-OCTACOSANE

R.T.: 17.197 min  
Delta R.T.: 0.028 min  
Response: 3695216  
Conc: 25.57 ug/ml m

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Instrument :

FID\_F

ClientSampleId :

EX-5-TPH-1MS

rteres

## Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF10242  
Data File : FF014766.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 19:58  
Sample : P4518-01MS  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :Ankita Jodhani 10/25/2024

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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         | 4.513       | 4.500        | 4.540      | BV       | 50182          | 616333       | 0.79%          | 0.018%        |
| 2         | 4.573       | 4.540        | 4.595      | VV       | 270218         | 3039108      | 3.87%          | 0.091%        |
| 3         | 4.608       | 4.595        | 4.625      | VV       | 34955          | 346277       | 0.44%          | 0.010%        |
| 4         | 4.645       | 4.625        | 4.670      | PV       | 41366          | 519173       | 0.66%          | 0.015%        |
| 5         | 4.679       | 4.670        | 4.686      | VV       | 3918           | 31277        | 0.04%          | 0.001%        |
| 6         | 4.703       | 4.686        | 4.708      | VV       | 12379          | 106273       | 0.14%          | 0.003%        |
| 7         | 4.725       | 4.708        | 4.736      | VV       | 52583          | 572781       | 0.73%          | 0.017%        |
| 8         | 4.752       | 4.736        | 4.769      | VV       | 61384          | 1039740      | 1.33%          | 0.031%        |
| 9         | 4.785       | 4.769        | 4.811      | VV       | 84548          | 1583329      | 2.02%          | 0.047%        |
| 10        | 4.825       | 4.811        | 4.839      | VV       | 64112          | 847419       | 1.08%          | 0.025%        |
| 11        | 4.857       | 4.839        | 4.871      | VV       | 211500         | 2282809      | 2.91%          | 0.068%        |
| 12        | 4.882       | 4.871        | 4.899      | VV       | 130131         | 1608237      | 2.05%          | 0.048%        |
| 13        | 4.917       | 4.899        | 4.928      | VV       | 104867         | 1508033      | 1.92%          | 0.045%        |
| 14        | 4.934       | 4.928        | 4.947      | VV       | 89603          | 866448       | 1.10%          | 0.026%        |
| 15        | 4.960       | 4.947        | 4.976      | VV       | 128527         | 1604929      | 2.05%          | 0.048%        |
| 16        | 4.991       | 4.976        | 5.004      | VV       | 119970         | 1611010      | 2.05%          | 0.048%        |
| 17        | 5.035       | 5.004        | 5.062      | VV       | 186307         | 3689045      | 4.70%          | 0.110%        |
| 18        | 5.084       | 5.062        | 5.121      | VV       | 172482         | 2605438      | 3.32%          | 0.078%        |
| 19        | 5.151       | 5.121        | 5.169      | VV       | 70749          | 1212102      | 1.55%          | 0.036%        |
| 20        | 5.187       | 5.169        | 5.206      | VV       | 99908          | 1406445      | 1.79%          | 0.042%        |
| 21        | 5.218       | 5.206        | 5.230      | VV       | 55277          | 645898       | 0.82%          | 0.019%        |
| 22        | 5.250       | 5.230        | 5.264      | VV       | 128515         | 1718765      | 2.19%          | 0.051%        |
| 23        | 5.280       | 5.264        | 5.304      | VV       | 140480         | 1954960      | 2.49%          | 0.058%        |
| 24        | 5.328       | 5.304        | 5.340      | VV       | 176665         | 2116615      | 2.70%          | 0.063%        |
| 25        | 5.357       | 5.340        | 5.375      | VV       | 409900         | 4811769      | 6.13%          | 0.144%        |
| 26        | 5.391       | 5.375        | 5.429      | VV       | 130941         | 2618669      | 3.34%          | 0.078%        |
| 27        | 5.458       | 5.429        | 5.469      | VV       | 62709          | 1068075      | 1.36%          | 0.032%        |
| 28        | 5.490       | 5.469        | 5.504      | VV       | 151022         | 2205286      | 2.81%          | 0.066%        |
| 29        | 5.514       | 5.504        | 5.525      | VV       | 108452         | 1251490      | 1.60%          | 0.037%        |
| 30        | 5.555       | 5.525        | 5.569      | VV       | 142021         | 2783350      | 3.55%          | 0.083%        |
| 31        | 5.585       | 5.569        | 5.601      | VV       | 177509         | 2484090      | 3.17%          | 0.074%        |
| 32        | 5.619       | 5.601        | 5.642      | VV       | 114055         | 2340972      | 2.98%          | 0.070%        |
| 33        | 5.650       | 5.642        | 5.665      | VV       | 84268          | 983526       | 1.25%          | 0.029%        |
| 34        | 5.678       | 5.665        | 5.686      | VV       | 72091          | 783617       | 1.00%          | 0.023%        |
| 35        | 5.705       | 5.686        | 5.714      | VV       | 308934         | 3407131      | 4.34%          | 0.102%        |
| 36        | 5.723       | 5.714        | 5.746      | VV       | 300445         | 3667040      | 4.68%          | 0.109%        |

Page 1

| rterres |       |       |       |    |         |          |        |        |  |
|---------|-------|-------|-------|----|---------|----------|--------|--------|--|
| 37      | 5.758 | 5.746 | 5.769 | VV | 80905   | 1023378  | 1.30%  | 0.031% |  |
| 38      | 5.786 | 5.769 | 5.818 | VV | 97252   | 2130736  |        |        |  |
| 39      | 5.838 | 5.818 | 5.851 | VV | 95895   | 1463894  |        |        |  |
| 40      | 5.863 | 5.851 | 5.871 | VV | 90619   | 967806   |        |        |  |
| 41      | 5.895 | 5.871 | 5.925 | VV | 444857  | 8154187  | 10.21% | 0.072% |  |
| 42      | 5.934 | 5.925 | 5.951 | VV | 188088  | 2346816  | 2.15%  | 0.050% |  |
| 43      | 5.974 | 5.951 | 5.984 | VV | 155388  | 2425907  | 3.09%  | 0.072% |  |
| 44      | 6.018 | 5.984 | 6.044 | VV | 434729  | 10508236 | 13.40% | 0.314% |  |
| 45      | 6.056 | 6.044 | 6.067 | VV | 212669  | 2482105  | 3.16%  | 0.074% |  |
| 46      | 6.078 | 6.067 | 6.089 | VV | 192814  | 2202845  | 2.81%  | 0.066% |  |
| 47      | 6.095 | 6.089 | 6.110 | VV | 159620  | 1683616  | 2.15%  | 0.050% |  |
| 48      | 6.125 | 6.110 | 6.130 | VV | 154776  | 1563893  | 1.99%  | 0.047% |  |
| 49      | 6.142 | 6.130 | 6.166 | VV | 193533  | 2648762  | 3.38%  | 0.079% |  |
| 50      | 6.191 | 6.166 | 6.209 | VV | 269748  | 3518754  | 4.49%  | 0.105% |  |
| 51      | 6.243 | 6.209 | 6.261 | VV | 333759  | 5656737  | 7.21%  | 0.169% |  |
| 52      | 6.276 | 6.261 | 6.284 | VV | 243629  | 2726941  | 3.48%  | 0.081% |  |
| 53      | 6.295 | 6.284 | 6.300 | VV | 241902  | 2231765  | 2.85%  | 0.067% |  |
| 54      | 6.316 | 6.300 | 6.330 | VV | 298574  | 4493878  | 5.73%  | 0.134% |  |
| 55      | 6.339 | 6.330 | 6.358 | VV | 216145  | 2813059  | 3.59%  | 0.084% |  |
| 56      | 6.384 | 6.358 | 6.403 | VV | 251170  | 5064009  | 6.46%  | 0.151% |  |
| 57      | 6.426 | 6.403 | 6.457 | VV | 399543  | 9165601  | 11.69% | 0.274% |  |
| 58      | 6.468 | 6.457 | 6.494 | VV | 260018  | 4982052  | 6.35%  | 0.149% |  |
| 59      | 6.509 | 6.494 | 6.522 | VV | 297714  | 3826677  | 4.88%  | 0.114% |  |
| 60      | 6.551 | 6.522 | 6.596 | VV | 339519  | 12060016 | 15.38% | 0.360% |  |
| 61      | 6.615 | 6.596 | 6.637 | VV | 346669  | 6453340  | 8.23%  | 0.193% |  |
| 62      | 6.661 | 6.637 | 6.679 | VV | 413413  | 7963859  | 10.15% | 0.238% |  |
| 63      | 6.687 | 6.679 | 6.702 | VV | 271128  | 3423426  | 4.36%  | 0.102% |  |
| 64      | 6.711 | 6.702 | 6.722 | VV | 218322  | 2433377  | 3.10%  | 0.073% |  |
| 65      | 6.742 | 6.722 | 6.792 | VV | 449063  | 11223914 | 14.31% | 0.335% |  |
| 66      | 6.829 | 6.792 | 6.842 | VV | 300768  | 6982915  | 8.90%  | 0.208% |  |
| 67      | 6.866 | 6.842 | 6.878 | VV | 329485  | 6163128  | 7.86%  | 0.184% |  |
| 68      | 6.900 | 6.878 | 6.920 | VV | 1001413 | 14902260 | 19.00% | 0.445% |  |
| 69      | 6.936 | 6.920 | 6.958 | VV | 534650  | 8817274  | 11.24% | 0.263% |  |
| 70      | 6.971 | 6.958 | 6.984 | VV | 328727  | 4257352  | 5.43%  | 0.127% |  |
| 71      | 6.996 | 6.984 | 7.006 | VV | 271411  | 3419036  | 4.36%  | 0.102% |  |
| 72      | 7.025 | 7.006 | 7.046 | VV | 529956  | 8766447  | 11.18% | 0.262% |  |
| 73      | 7.073 | 7.046 | 7.097 | VV | 617235  | 12237849 | 15.60% | 0.365% |  |
| 74      | 7.108 | 7.097 | 7.121 | VV | 332604  | 4246754  | 5.41%  | 0.127% |  |
| 75      | 7.149 | 7.121 | 7.175 | VV | 656543  | 13130536 | 16.74% | 0.392% |  |
| 76      | 7.216 | 7.175 | 7.235 | VV | 372697  | 10579537 | 13.49% | 0.316% |  |
| 77      | 7.276 | 7.235 | 7.296 | VV | 589025  | 15758977 | 20.09% | 0.470% |  |
| 78      | 7.317 | 7.296 | 7.348 | VV | 746252  | 14285513 | 18.21% | 0.426% |  |
| 79      | 7.376 | 7.348 | 7.411 | VV | 920478  | 20180757 | 25.73% | 0.602% |  |
| 80      | 7.424 | 7.411 | 7.442 | VV | 393794  | 6237712  | 7.95%  | 0.186% |  |
| 81      | 7.471 | 7.442 | 7.499 | VV | 1719770 | 28339554 | 36.13% | 0.846% |  |
| 82      | 7.517 | 7.499 | 7.546 | VV | 987146  | 16882305 | 21.52% | 0.504% |  |
| 83      | 7.568 | 7.546 | 7.585 | VV | 620956  | 10525215 | 13.42% | 0.314% |  |
| 84      | 7.595 | 7.585 | 7.605 | VV | 399350  | 4519485  | 5.76%  | 0.135% |  |
| 85      | 7.616 | 7.605 | 7.628 | VV | 397163  | 5321524  | 6.78%  | 0.159% |  |
| 86      | 7.669 | 7.628 | 7.683 | VV | 709369  | 17232229 | 21.97% | 0.514% |  |
| 87      | 7.690 | 7.683 | 7.715 | VV | 539855  | 8915800  | 11.37% | 0.266% |  |
| 88      | 7.743 | 7.715 | 7.770 | VV | 533215  | 15824824 | 20.18% | 0.472% |  |
| 89      | 7.779 | 7.770 | 7.797 | VV | 512694  | 7489649  | 9.55%  | 0.224% |  |

Instrument :

FID\_F

ClientSampleId :

EX-5-TPH-1MS

Manual IntegrationsAPPROVED

 Reviewed By :Yogesh Patel 10/25/2024  
 Supervised By :Ankita Jodhani 10/25/2024



|        |        |        |        |    |         |                                  |                |
|--------|--------|--------|--------|----|---------|----------------------------------|----------------|
|        |        |        |        |    |         | Instrument :<br>FID_F            |                |
|        |        |        |        |    |         | ClientSampleId :<br>EX-5-TPH-1MS |                |
| rteres |        |        |        |    |         | Manual IntegrationsAPPROVED      |                |
| 142    | 10.022 | 10.002 | 10.041 | VV | 784107  | 17620822                         | 22.47% 0.526%  |
| 143    | 10.056 | 10.041 | 10.081 | VV | 776917  | 16488290                         | 21.47% 0.526%  |
| 144    | 10.104 | 10.081 | 10.123 | VV | 992773  | 21442745                         | 27.47% 0.526%  |
| 145    | 10.149 | 10.123 | 10.173 | VV | 1182128 | 30279162                         | 38.47% 0.526%  |
| 146    | 10.192 | 10.173 | 10.237 | VV | 1381762 | 39624391                         | 50.47% 0.526%  |
| 147    | 10.264 | 10.237 | 10.278 | VV | 853466  | 20159121                         | 29.47% 0.526%  |
| 148    | 10.297 | 10.278 | 10.335 | VV | 933689  | 26650762                         | 33.98% 0.795%  |
| 149    | 10.366 | 10.335 | 10.394 | VV | 976024  | 27756052                         | 35.39% 0.828%  |
| 150    | 10.406 | 10.394 | 10.412 | VV | 739380  | 8116159                          | 10.35% 0.242%  |
| 151    | 10.419 | 10.412 | 10.447 | VV | 752207  | 14405977                         | 18.37% 0.430%  |
| 152    | 10.467 | 10.447 | 10.499 | VV | 775729  | 21722760                         | 27.70% 0.648%  |
| 153    | 10.525 | 10.499 | 10.552 | VV | 1026068 | 26098372                         | 33.27% 0.779%  |
| 154    | 10.591 | 10.552 | 10.615 | VV | 2394115 | 55176417                         | 70.35% 1.647%  |
| 155    | 10.664 | 10.615 | 10.689 | VV | 1208763 | 43801482                         | 55.85% 1.307%  |
| 156    | 10.710 | 10.689 | 10.757 | VV | 1265123 | 37784975                         | 48.17% 1.128%  |
| 157    | 10.785 | 10.757 | 10.820 | VV | 951207  | 32028879                         | 40.84% 0.956%  |
| 158    | 10.858 | 10.820 | 10.896 | VV | 1028932 | 41023432                         | 52.30% 1.224%  |
| 159    | 10.931 | 10.896 | 10.944 | VV | 1042347 | 27527686                         | 35.10% 0.822%  |
| 160    | 10.951 | 10.944 | 10.972 | VV | 1011912 | 15925770                         | 20.30% 0.475%  |
| 161    | 11.019 | 10.972 | 11.041 | VV | 3487710 | 78432941                         | 100.00% 2.341% |
| 162    | 11.052 | 11.041 | 11.101 | VV | 957257  | 30054745                         | 38.32% 0.897%  |
| 163    | 11.145 | 11.101 | 11.160 | VV | 794842  | 26642181                         | 33.97% 0.795%  |
| 164    | 11.194 | 11.160 | 11.239 | VV | 1512101 | 46016473                         | 58.67% 1.373%  |
| 165    | 11.265 | 11.239 | 11.300 | VV | 1108467 | 31791378                         | 40.53% 0.949%  |
| 166    | 11.328 | 11.300 | 11.355 | VV | 1120048 | 28805688                         | 36.73% 0.860%  |
| 167    | 11.365 | 11.355 | 11.383 | VV | 708803  | 11777163                         | 15.02% 0.352%  |
| 168    | 11.406 | 11.383 | 11.430 | VV | 807857  | 20879639                         | 26.62% 0.623%  |
| 169    | 11.465 | 11.430 | 11.472 | VV | 769190  | 18231444                         | 23.24% 0.544%  |
| 170    | 11.497 | 11.472 | 11.520 | VV | 918369  | 23338875                         | 29.76% 0.697%  |
| 171    | 11.543 | 11.520 | 11.567 | VV | 898714  | 23248289                         | 29.64% 0.694%  |
| 172    | 11.582 | 11.567 | 11.606 | VV | 875832  | 19482341                         | 24.84% 0.581%  |
| 173    | 11.635 | 11.606 | 11.653 | VV | 1041133 | 24845407                         | 31.68% 0.742%  |
| 174    | 11.667 | 11.653 | 11.693 | VV | 868972  | 20037474                         | 25.55% 0.598%  |
| 175    | 11.735 | 11.693 | 11.763 | VV | 2230632 | 56504740                         | 72.04% 1.686%  |
| 176    | 11.785 | 11.763 | 11.810 | VV | 779777  | 20114176                         | 25.65% 0.600%  |
| 177    | 11.838 | 11.810 | 11.863 | VV | 857386  | 22981140                         | 29.30% 0.686%  |
| 178    | 11.904 | 11.863 | 11.912 | VV | 728343  | 20594457                         | 26.26% 0.615%  |
| 179    | 11.930 | 11.912 | 11.962 | VV | 739009  | 21259852                         | 27.11% 0.635%  |
| 180    | 11.995 | 11.962 | 12.007 | VV | 914565  | 20987016                         | 26.76% 0.626%  |
| 181    | 12.026 | 12.007 | 12.062 | VV | 1073487 | 26801554                         | 34.17% 0.800%  |
| 182    | 12.107 | 12.062 | 12.119 | VV | 688725  | 21986650                         | 28.03% 0.656%  |
| 183    | 12.143 | 12.119 | 12.162 | VV | 859164  | 19878839                         | 25.35% 0.593%  |
| 184    | 12.172 | 12.162 | 12.226 | VV | 800619  | 26573538                         | 33.88% 0.793%  |
| 185    | 12.243 | 12.226 | 12.261 | VV | 614374  | 12315246                         | 15.70% 0.368%  |
| 186    | 12.291 | 12.261 | 12.317 | VV | 1071251 | 27679699                         | 35.29% 0.826%  |
| 187    | 12.330 | 12.317 | 12.365 | VV | 720070  | 18893394                         | 24.09% 0.564%  |
| 188    | 12.391 | 12.365 | 12.402 | VV | 643815  | 13727566                         | 17.50% 0.410%  |
| 189    | 12.409 | 12.402 | 12.428 | VV | 643600  | 9642030                          | 12.29% 0.288%  |
| 190    | 12.440 | 12.428 | 12.483 | VV | 617164  | 18860298                         | 24.05% 0.563%  |
| 191    | 12.510 | 12.483 | 12.521 | VV | 634678  | 13093373                         | 16.69% 0.391%  |
| 192    | 12.584 | 12.521 | 12.604 | VV | 1115990 | 40029113                         | 51.04% 1.195%  |
| 193    | 12.622 | 12.604 | 12.641 | VV | 578082  | 11984228                         | 15.28% 0.358%  |
| 194    | 12.656 | 12.641 | 12.670 | VV | 595319  | 9870417                          | 12.58% 0.295%  |



|     |        |        |        |    |        |                                  |               |
|-----|--------|--------|--------|----|--------|----------------------------------|---------------|
|     |        |        |        |    |        | Instrument :<br>FID_F            |               |
|     |        |        |        |    |        | ClientSampleId :<br>EX-5-TPH-1MS |               |
| 195 | 12.687 | 12.670 | 12.702 | VV | 607110 | 10919767                         | 13.92% 0.326% |
| 196 | 12.715 | 12.702 | 12.723 | VV | 590100 | 7310389                          |               |
| 197 | 12.731 | 12.723 | 12.756 | VV | 589132 | 10615978                         |               |
| 198 | 12.786 | 12.756 | 12.837 | VV | 683026 | 26703061                         |               |
| 199 | 12.860 | 12.837 | 12.873 | VV | 593723 | 11493541                         |               |
| 200 | 12.895 | 12.873 | 12.913 | VV | 781379 | 15874335                         |               |
| 201 | 12.937 | 12.913 | 12.984 | VV | 865350 | 26407746                         | 33.67% 0.788% |
| 202 | 13.009 | 12.984 | 13.046 | VV | 826971 | 21294543                         | 27.15% 0.636% |
| 203 | 13.080 | 13.046 | 13.109 | VV | 426167 | 15258630                         | 19.45% 0.455% |
| 204 | 13.129 | 13.109 | 13.171 | VV | 430156 | 14399142                         | 18.36% 0.430% |
| 205 | 13.194 | 13.171 | 13.206 | VV | 390497 | 7817101                          | 9.97% 0.233%  |
| 206 | 13.214 | 13.206 | 13.233 | VV | 392396 | 6132556                          | 7.82% 0.183%  |
| 207 | 13.255 | 13.233 | 13.278 | VV | 387237 | 9783433                          | 12.47% 0.292% |
| 208 | 13.303 | 13.278 | 13.340 | VV | 610607 | 15861477                         | 20.22% 0.473% |
| 209 | 13.356 | 13.340 | 13.379 | VV | 362422 | 7908224                          | 10.08% 0.236% |
| 210 | 13.389 | 13.379 | 13.406 | VV | 359474 | 5796539                          | 7.39% 0.173%  |
| 211 | 13.432 | 13.406 | 13.462 | VV | 498791 | 13435996                         | 17.13% 0.401% |
| 212 | 13.481 | 13.462 | 13.497 | VV | 346585 | 7129128                          | 9.09% 0.213%  |
| 213 | 13.503 | 13.497 | 13.529 | VV | 313231 | 5443233                          | 6.94% 0.162%  |
| 214 | 13.587 | 13.529 | 13.610 | VV | 364492 | 15314755                         | 19.53% 0.457% |
| 215 | 13.630 | 13.610 | 13.675 | VV | 387426 | 11747889                         | 14.98% 0.351% |
| 216 | 13.692 | 13.675 | 13.705 | VV | 289478 | 4797923                          | 6.12% 0.143%  |
| 217 | 13.720 | 13.705 | 13.742 | VV | 292844 | 5816356                          | 7.42% 0.174%  |
| 218 | 13.794 | 13.742 | 13.836 | VV | 680881 | 21547854                         | 27.47% 0.643% |
| 219 | 13.851 | 13.836 | 13.862 | VV | 241765 | 3801413                          | 4.85% 0.113%  |
| 220 | 13.882 | 13.862 | 13.915 | VV | 284363 | 7613954                          | 9.71% 0.227%  |
| 221 | 13.927 | 13.915 | 13.941 | VV | 201336 | 3062620                          | 3.90% 0.091%  |
| 222 | 13.957 | 13.941 | 13.968 | VV | 210248 | 3262850                          | 4.16% 0.097%  |
| 223 | 13.989 | 13.968 | 14.010 | VV | 265102 | 5813271                          | 7.41% 0.174%  |
| 224 | 14.033 | 14.010 | 14.095 | VV | 260975 | 10767080                         | 13.73% 0.321% |
| 225 | 14.128 | 14.095 | 14.150 | VV | 386133 | 8482811                          | 10.82% 0.253% |
| 226 | 14.157 | 14.150 | 14.177 | VV | 208089 | 3039334                          | 3.88% 0.091%  |
| 227 | 14.199 | 14.177 | 14.232 | VV | 187799 | 5640632                          | 7.19% 0.168%  |
| 228 | 14.268 | 14.232 | 14.300 | VV | 157212 | 5942203                          | 7.58% 0.177%  |
| 229 | 14.311 | 14.300 | 14.317 | VV | 125613 | 1234974                          | 1.57% 0.037%  |
| 230 | 14.361 | 14.317 | 14.400 | VV | 189790 | 7471517                          | 9.53% 0.223%  |
| 231 | 14.431 | 14.400 | 14.470 | VV | 138908 | 5211322                          | 6.64% 0.156%  |
| 232 | 14.500 | 14.470 | 14.532 | VV | 142292 | 4609540                          | 5.88% 0.138%  |
| 233 | 14.538 | 14.532 | 14.559 | VV | 120210 | 1864173                          | 2.38% 0.056%  |
| 234 | 14.563 | 14.559 | 14.567 | VV | 110986 | 563809                           | 0.72% 0.017%  |
| 235 | 14.592 | 14.567 | 14.627 | VV | 119718 | 3965027                          | 5.06% 0.118%  |
| 236 | 14.642 | 14.627 | 14.663 | VV | 106692 | 2111114                          | 2.69% 0.063%  |
| 237 | 14.688 | 14.663 | 14.705 | VV | 104309 | 2410348                          | 3.07% 0.072%  |
| 238 | 14.711 | 14.705 | 14.729 | VV | 100828 | 1381642                          | 1.76% 0.041%  |
| 239 | 14.755 | 14.729 | 14.775 | VV | 107682 | 2686043                          | 3.42% 0.080%  |
| 240 | 14.794 | 14.775 | 14.799 | VV | 110611 | 1459374                          | 1.86% 0.044%  |
| 241 | 14.813 | 14.799 | 14.839 | VV | 127180 | 2663928                          | 3.40% 0.080%  |
| 242 | 14.853 | 14.839 | 14.872 | VV | 107520 | 1798013                          | 2.29% 0.054%  |
| 243 | 14.887 | 14.872 | 14.910 | VV | 83378  | 1718727                          | 2.19% 0.051%  |
| 244 | 14.942 | 14.910 | 14.959 | VV | 83358  | 2265255                          | 2.89% 0.068%  |
| 245 | 14.969 | 14.959 | 14.996 | VV | 86224  | 1676267                          | 2.14% 0.050%  |
| 246 | 15.022 | 14.996 | 15.052 | VV | 160671 | 3434777                          | 4.38% 0.103%  |

Page 5

Instrument :

FID\_F

ClientSampleId :

EX-5-TPH-1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :Ankita Jodhani 10/25/2024

|        |        |        |        |    |        |         |       |        |  |
|--------|--------|--------|--------|----|--------|---------|-------|--------|--|
|        |        |        |        |    |        |         |       |        |  |
| rteres |        |        |        |    |        |         |       |        |  |
| 247    | 15.057 | 15.052 | 15.063 | VV | 59469  | 372412  | 0.47% | 0.011% |  |
| 248    | 15.070 | 15.063 | 15.077 | VV | 57977  | 493410  |       |        |  |
| 249    | 15.078 | 15.077 | 15.093 | VV | 57258  | 507795  |       |        |  |
| 250    | 15.118 | 15.093 | 15.136 | VV | 70430  | 1565838 |       |        |  |
|        |        |        |        |    |        |         |       |        |  |
| 251    | 15.160 | 15.136 | 15.181 | VV | 141775 | 2446094 |       |        |  |
| 252    | 15.227 | 15.181 | 15.270 | VV | 259681 | 6296886 |       |        |  |
| 253    | 15.288 | 15.270 | 15.297 | VV | 56211  | 859511  | 1.10% | 0.026% |  |
| 254    | 15.314 | 15.297 | 15.347 | VV | 66070  | 1671959 | 2.13% | 0.050% |  |
| 255    | 15.365 | 15.347 | 15.416 | VV | 69652  | 2072302 | 2.64% | 0.062% |  |
|        |        |        |        |    |        |         |       |        |  |
| 256    | 15.425 | 15.416 | 15.429 | VV | 35449  | 260071  | 0.33% | 0.008% |  |
| 257    | 15.433 | 15.429 | 15.440 | VV | 36114  | 226332  | 0.29% | 0.007% |  |
| 258    | 15.470 | 15.440 | 15.501 | VV | 55290  | 1686938 | 2.15% | 0.050% |  |
| 259    | 15.508 | 15.501 | 15.530 | VV | 44669  | 655725  | 0.84% | 0.020% |  |
| 260    | 15.566 | 15.530 | 15.570 | VV | 36312  | 777602  | 0.99% | 0.023% |  |
|        |        |        |        |    |        |         |       |        |  |
| 261    | 15.602 | 15.570 | 15.640 | VV | 64849  | 1704234 | 2.17% | 0.051% |  |
| 262    | 15.657 | 15.640 | 15.662 | VV | 35721  | 428077  | 0.55% | 0.013% |  |
| 263    | 15.668 | 15.662 | 15.721 | VV | 35288  | 903785  | 1.15% | 0.027% |  |
| 264    | 15.776 | 15.721 | 15.814 | VV | 51037  | 2229112 | 2.84% | 0.067% |  |
| 265    | 15.833 | 15.814 | 15.857 | VV | 53951  | 904261  | 1.15% | 0.027% |  |
|        |        |        |        |    |        |         |       |        |  |
| 266    | 15.876 | 15.857 | 15.904 | VV | 26752  | 614942  | 0.78% | 0.018% |  |
| 267    | 15.915 | 15.904 | 15.922 | VV | 20621  | 192127  | 0.24% | 0.006% |  |
| 268    | 15.938 | 15.922 | 15.948 | VV | 20834  | 296298  | 0.38% | 0.009% |  |
| 269    | 15.992 | 15.948 | 16.027 | VV | 40298  | 1330573 | 1.70% | 0.040% |  |
| 270    | 16.058 | 16.027 | 16.117 | VV | 45284  | 1499451 | 1.91% | 0.045% |  |
|        |        |        |        |    |        |         |       |        |  |
| 271    | 16.121 | 16.117 | 16.125 | VV | 16491  | 74798   | 0.10% | 0.002% |  |
| 272    | 16.133 | 16.125 | 16.146 | VV | 18984  | 209212  | 0.27% | 0.006% |  |
| 273    | 16.157 | 16.146 | 16.180 | VV | 17618  | 263711  | 0.34% | 0.008% |  |
| 274    | 16.194 | 16.180 | 16.205 | VV | 14409  | 184311  | 0.23% | 0.006% |  |
| 275    | 16.247 | 16.205 | 16.278 | VV | 221640 | 3441284 | 4.39% | 0.103% |  |
|        |        |        |        |    |        |         |       |        |  |
| 276    | 16.283 | 16.278 | 16.323 | VV | 32204  | 571819  | 0.73% | 0.017% |  |
| 277    | 16.337 | 16.323 | 16.359 | VV | 10560  | 180495  | 0.23% | 0.005% |  |
| 278    | 16.368 | 16.359 | 16.374 | VV | 4036   | 27196   | 0.03% | 0.001% |  |
| 279    | 16.444 | 16.374 | 16.485 | PV | 30206  | 1118051 | 1.43% | 0.033% |  |
| 280    | 16.491 | 16.485 | 16.512 | VV | 20031  | 258495  | 0.33% | 0.008% |  |
|        |        |        |        |    |        |         |       |        |  |
| 281    | 16.559 | 16.512 | 16.563 | VV | 40653  | 812627  | 1.04% | 0.024% |  |
| 282    | 16.567 | 16.563 | 16.594 | VV | 39148  | 548818  | 0.70% | 0.016% |  |
| 283    | 16.616 | 16.594 | 16.659 | VV | 29887  | 822988  | 1.05% | 0.025% |  |
| 284    | 16.717 | 16.659 | 16.737 | VV | 91726  | 1792885 | 2.29% | 0.054% |  |
| 285    | 16.741 | 16.737 | 16.760 | VV | 48799  | 445551  | 0.57% | 0.013% |  |
|        |        |        |        |    |        |         |       |        |  |
| 286    | 16.770 | 16.760 | 16.784 | VV | 12068  | 134763  | 0.17% | 0.004% |  |
| 287    | 16.789 | 16.784 | 16.808 | VV | 6666   | 77364   | 0.10% | 0.002% |  |
| 288    | 16.846 | 16.808 | 16.867 | VV | 27985  | 547637  | 0.70% | 0.016% |  |
| 289    | 16.888 | 16.867 | 16.892 | VV | 18958  | 222184  | 0.28% | 0.007% |  |
| 290    | 16.899 | 16.892 | 16.910 | VV | 20888  | 205165  | 0.26% | 0.006% |  |
|        |        |        |        |    |        |         |       |        |  |
| 291    | 16.922 | 16.910 | 16.927 | VV | 22390  | 207840  | 0.26% | 0.006% |  |
| 292    | 16.951 | 16.927 | 16.984 | VV | 36484  | 958918  | 1.22% | 0.029% |  |
| 293    | 17.036 | 16.984 | 17.067 | VV | 65628  | 1861798 | 2.37% | 0.056% |  |
| 294    | 17.093 | 17.067 | 17.124 | VV | 69387  | 1130479 | 1.44% | 0.034% |  |
| 295    | 17.130 | 17.124 | 17.134 | VV | 3494   | 14452   | 0.02% | 0.000% |  |
|        |        |        |        |    |        |         |       |        |  |
| 296    | 17.150 | 17.134 | 17.158 | PV | 8824   | 72720   | 0.09% | 0.002% |  |
| 297    | 17.196 | 17.158 | 17.245 | VV | 218342 | 3649642 | 4.65% | 0.109% |  |
| 298    | 17.251 | 17.245 | 17.281 | VV | 13758  | 164053  | 0.21% | 0.005% |  |

Sum of corrected areas: 3350437958

Page 6

Instrument :

FID\_F

ClientSampleId :

EX-5-TPH-1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

rteres

FF102124.M Fri Oct 25 05:03:14 2024

Instrument :  
FID\_F  
ClientSampleId :  
EX-5-TPH-1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

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## Report of Analysis

|                    |                           |                    |                       |
|--------------------|---------------------------|--------------------|-----------------------|
| Client:            | Chemtech Consulting Group | Date Collected:    | 10/23/24              |
| Project:           | NJ Soil PT                | Date Received:     | 10/23/24              |
| Client Sample ID:  | EX-5-TPH-1MSD             | SDG No.:           | P4495                 |
| Lab Sample ID:     | P4518-01MSD               | Matrix:            | SOIL                  |
| Analytical Method: | 8015D DRO                 | % Solid:           | 78.5                  |
| Sample Wt/Vol:     | 30.03                     | Units:             | g                     |
| Soil Aliquot Vol:  |                           |                    | uL                    |
| Extraction Type:   |                           | Test:              | Diesel Range Organics |
| GPC Factor :       |                           | Injection Volume : |                       |
| Prep Method :      | SW3541                    |                    |                       |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| FF014767.D        | 1         | 10/24/24 11:10 | 10/24/24 20:27 | PB164381      |

| CAS Number        | Parameter       | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|-----------------|--------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                 |        |           |          |            |                   |
| DRO               | DRO             | 917000 | E         | 235      | 2120       | ug/kg             |
| <b>SURROGATES</b> |                 |        |           |          |            |                   |
| 16416-32-3        | Tetracosane-d50 | 10.7   |           | 37 - 130 | 53%        | SPK: 20           |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
 Data File : FF014767.D  
 Signal(s) : FID2B.ch  
 Acq On : 24 Oct 2024 20:27  
 Operator : YP\AJ  
 Sample : P4518-01MSD  
 Misc :  
 ALS Vial : 64 Sample Multiplier: 1

**Instrument :**

FID\_F

**ClientSampleId :**

EX-5-TPH-1MSD

**Manual Integrations****APPROVED**

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e  
 Quant Time: Oct 25 04:37:37 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
 Quant Title :  
 QLast Update : Tue Oct 22 08:35:55 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal Phase : Rxi-1ms  
 Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units    |
|-------------------------------|--------|----------|---------------|
| -----                         |        |          |               |
| System Monitoring Compounds   |        |          |               |
| 9) S TETRACOSANE-d50 (SURR... | 15.021 | 1401074  | 10.646 ug/mlm |
| Target Compounds              |        |          |               |
| 2) N-DECANE                   | 4.573  | 3316882  | 23.219 ug/ml  |
| 3) N-DODECANE                 | 6.743  | 3375694  | 23.262 ug/mlm |
| 4) N-TETRADECANE              | 8.534  | 10809406 | 73.741 ug/mlm |
| 5) N-HEXADECANE               | 10.147 | 11580236 | 78.803 ug/mlm |
| 6) N-OCTADECANE               | 11.585 | 3575020  | 23.813 ug/mlm |
| 7) N-EICOSANE                 | 12.893 | 5329180  | 35.129 ug/mlm |
| 8) N-DOCOSANE                 | 14.128 | 2922942  | 19.864 ug/mlm |
| 10) N-TETRACOSANE             | 15.205 | 830530   | 5.651 ug/mlm  |
| 11) N-HEXACOSANE              | 16.248 | 2895519  | 19.824 ug/mlm |
| 12) N-OCTACOSANE              | 17.197 | 3430944  | 23.745 ug/mlm |
| -----                         |        |          |               |

(f)=RT Delta &gt; 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014767.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 20:27  
Operator : YP\AJ  
Sample : P4518-01MSD  
Misc :  
ALS Vial : 64 Sample Multiplier: 1

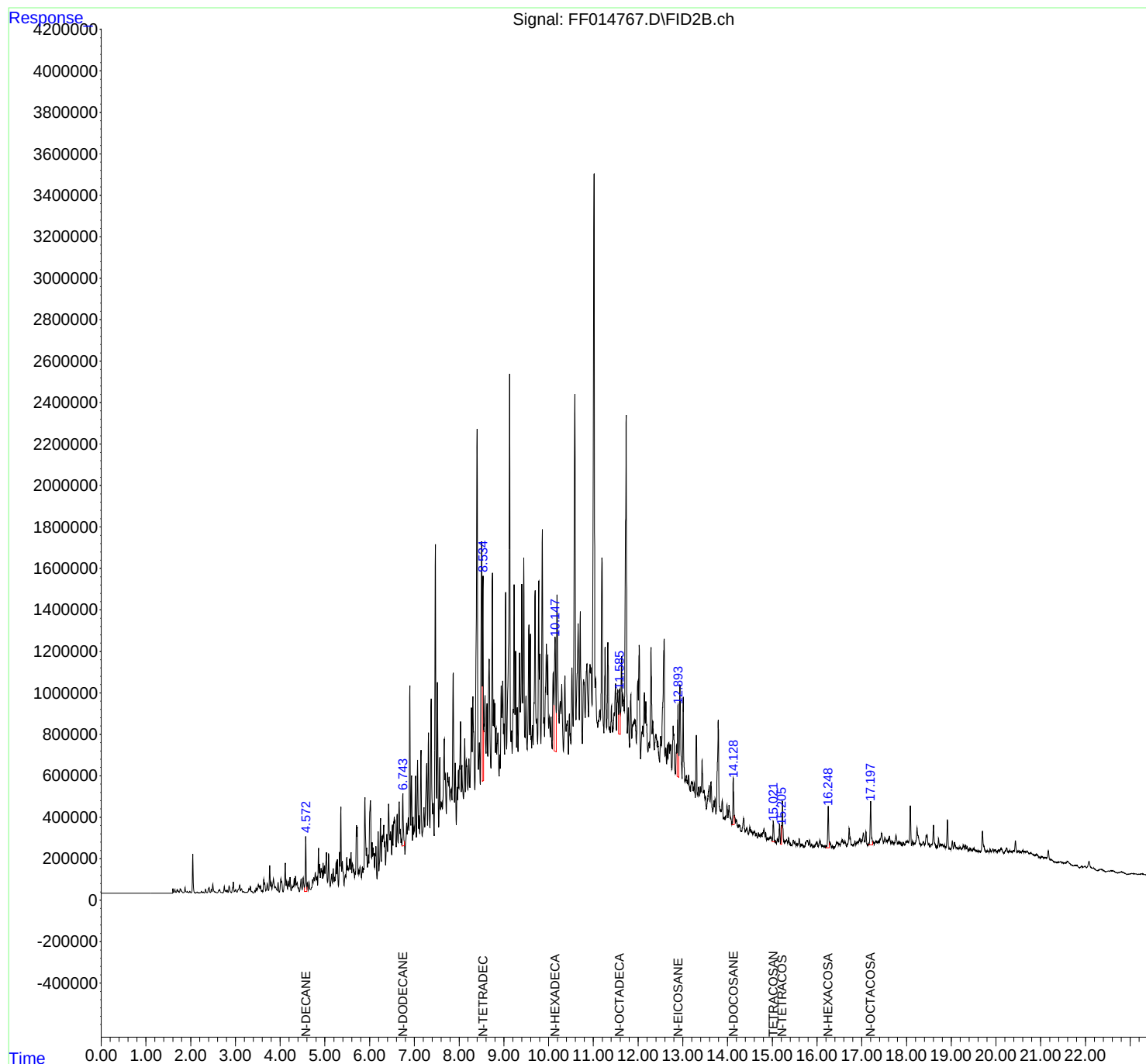
Instrument :  
FID\_F  
ClientSampleId :  
EX-5-TPH-1MSD

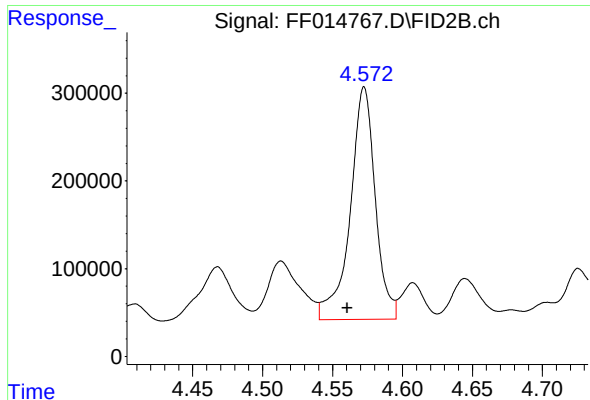
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e  
Quant Time: Oct 25 04:37:37 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





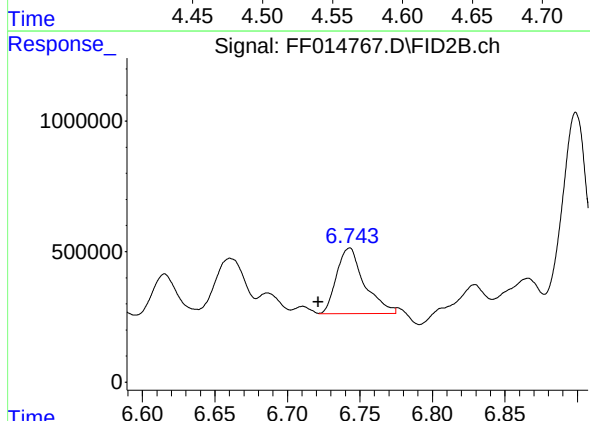
#2 N-DECANE

R.T.: 4.573 min  
Delta R.T.: 0.012 min  
Response: 3316882  
Conc: 23.22 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EX-5-TPH-1MSD

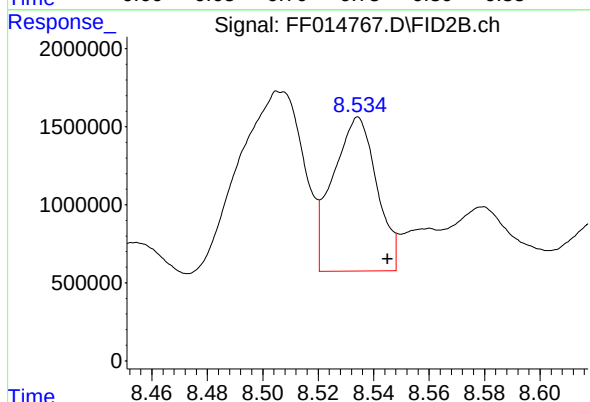
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



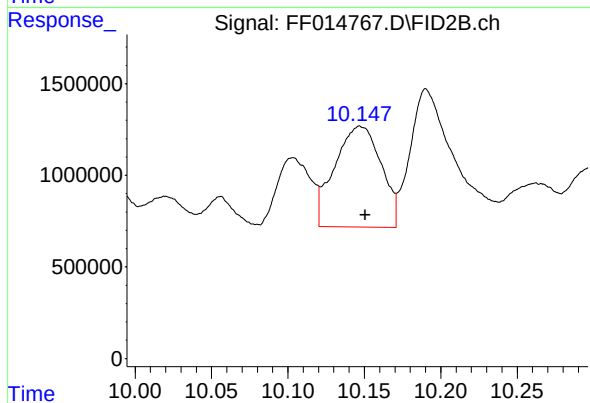
#3 N-DODECANE

R.T.: 6.743 min  
Delta R.T.: 0.021 min  
Response: 3375694  
Conc: 23.26 ug/ml m



#4 N-TETRADECANE

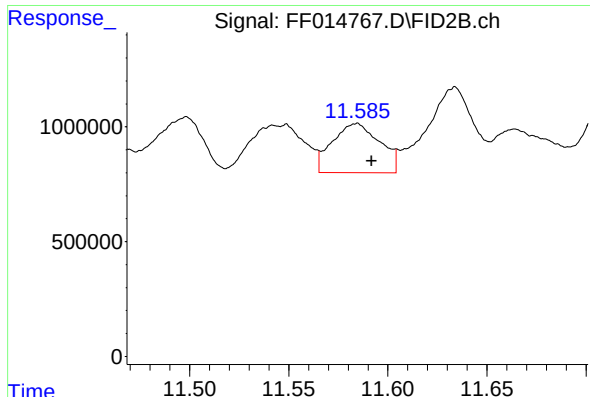
R.T.: 8.534 min  
Delta R.T.: -0.011 min  
Response: 10809406  
Conc: 73.74 ug/ml m



#5 N-HEXADECANE

R.T.: 10.147 min  
Delta R.T.: -0.004 min  
Response: 11580236  
Conc: 78.80 ug/ml m

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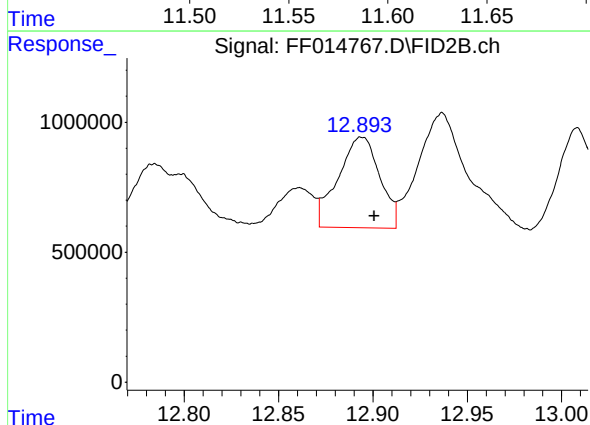
#6 N-OCTADECANE

R.T.: 11.585 min  
Delta R.T.: -0.007 min  
Response: 3575020  
Conc: 23.81 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EX-5-TPH-1MSD

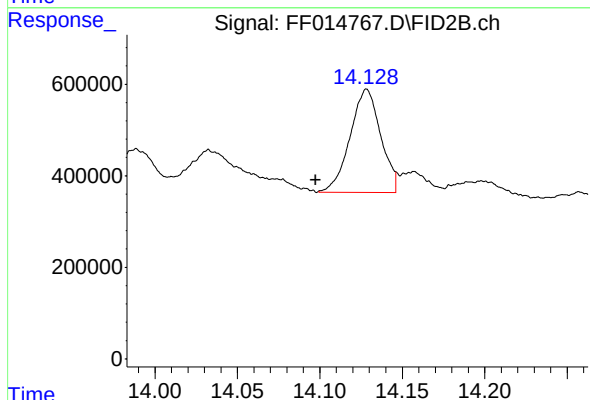
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024



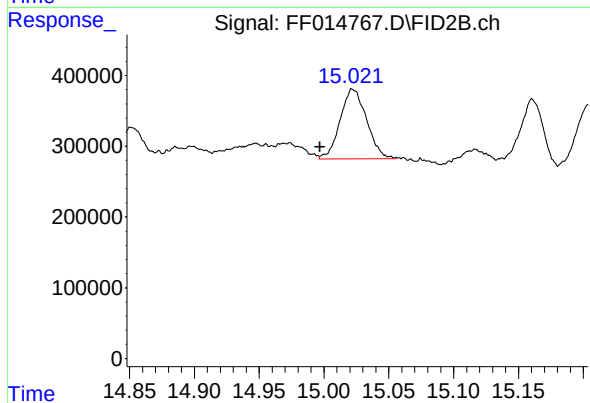
#7 N-EICOSANE

R.T.: 12.893 min  
Delta R.T.: -0.008 min  
Response: 5329180  
Conc: 35.13 ug/ml m



#8 N-DOCOSANE

R.T.: 14.128 min  
Delta R.T.: 0.030 min  
Response: 2922942  
Conc: 19.86 ug/ml m

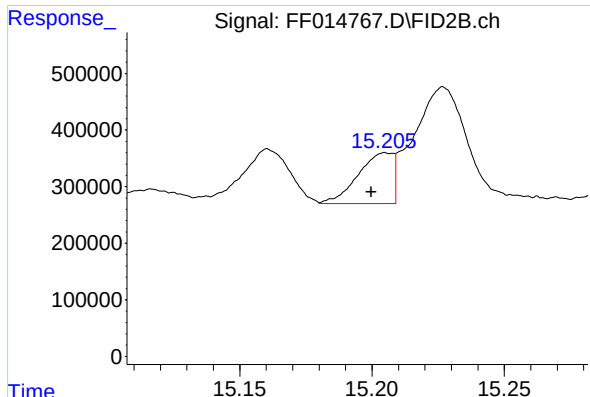


#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.021 min  
Delta R.T.: 0.024 min  
Response: 1401074  
Conc: 10.65 ug/ml m

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#10 N-TETRACOSANE

R.T.: 15.205 min  
Delta R.T.: 0.005 min  
Response: 830530  
Conc: 5.65 ug/ml

Instrument :

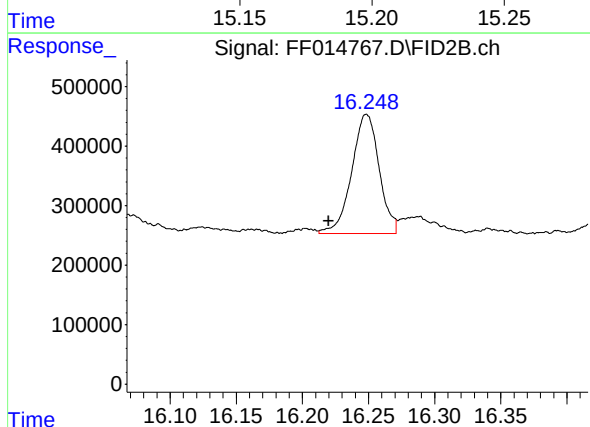
FID\_F

ClientSampleId :

EX-5-TPH-1MSD

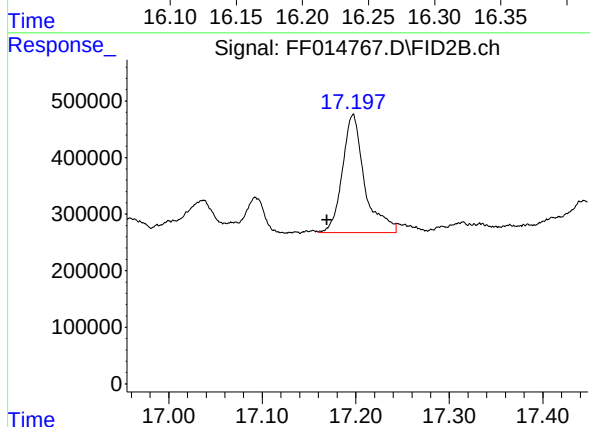
Manual Integrations  
APPROVED

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Supervised By :Ankita Jodhani 10/25/2024



#11 N-HEXACOSANE

R.T.: 16.248 min  
Delta R.T.: 0.029 min  
Response: 2895519  
Conc: 19.82 ug/ml m



#12 N-OCTACOSANE

R.T.: 17.197 min  
Delta R.T.: 0.028 min  
Response: 3430944  
Conc: 23.75 ug/ml m

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Instrument :

FID\_F

ClientSampleId :

EX-5-TPH-1MSD

rteres

## Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF10242  
Data File : FF014767.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 20:27  
Sample : P4518-01MSD  
Misc :  
ALS Vial : 64 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :Ankita Jodhani 10/25/2024

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

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         | 4.513       | 4.500        | 4.540      | BV       | 48677          | 595836       | 0.80%          | 0.019%        |
| 2         | 4.573       | 4.540        | 4.595      | VV       | 253712         | 2907555      | 3.92%          | 0.092%        |
| 3         | 4.607       | 4.595        | 4.625      | VV       | 33794          | 331022       | 0.45%          | 0.010%        |
| 4         | 4.645       | 4.625        | 4.669      | PV       | 40025          | 495744       | 0.67%          | 0.016%        |
| 5         | 4.678       | 4.669        | 4.687      | VV       | 3676           | 29328        | 0.04%          | 0.001%        |
| 6         | 4.703       | 4.687        | 4.708      | VV       | 11820          | 97456        | 0.13%          | 0.003%        |
| 7         | 4.726       | 4.708        | 4.736      | VV       | 50232          | 555373       | 0.75%          | 0.018%        |
| 8         | 4.753       | 4.736        | 4.769      | VV       | 57916          | 989469       | 1.33%          | 0.031%        |
| 9         | 4.785       | 4.769        | 4.810      | VV       | 80863          | 1486389      | 2.00%          | 0.047%        |
| 10        | 4.824       | 4.810        | 4.839      | VV       | 61155          | 828112       | 1.12%          | 0.026%        |
| 11        | 4.857       | 4.839        | 4.871      | VV       | 198257         | 2181378      | 2.94%          | 0.069%        |
| 12        | 4.882       | 4.871        | 4.899      | VV       | 122030         | 1530468      | 2.06%          | 0.048%        |
| 13        | 4.917       | 4.899        | 4.929      | VV       | 100893         | 1491950      | 2.01%          | 0.047%        |
| 14        | 4.934       | 4.929        | 4.947      | VV       | 84887          | 762015       | 1.03%          | 0.024%        |
| 15        | 4.960       | 4.947        | 4.976      | VV       | 124810         | 1545935      | 2.08%          | 0.049%        |
| 16        | 4.991       | 4.976        | 5.004      | VV       | 112580         | 1526429      | 2.06%          | 0.048%        |
| 17        | 5.035       | 5.004        | 5.061      | VV       | 175323         | 3495406      | 4.71%          | 0.110%        |
| 18        | 5.084       | 5.061        | 5.121      | VV       | 168011         | 2502390      | 3.37%          | 0.079%        |
| 19        | 5.151       | 5.121        | 5.168      | VV       | 67207          | 1150831      | 1.55%          | 0.036%        |
| 20        | 5.187       | 5.168        | 5.206      | VV       | 94843          | 1332866      | 1.80%          | 0.042%        |
| 21        | 5.218       | 5.206        | 5.230      | VV       | 51445          | 608606       | 0.82%          | 0.019%        |
| 22        | 5.250       | 5.230        | 5.264      | VV       | 121842         | 1628781      | 2.20%          | 0.051%        |
| 23        | 5.279       | 5.264        | 5.304      | VV       | 137444         | 1874995      | 2.53%          | 0.059%        |
| 24        | 5.328       | 5.304        | 5.340      | VV       | 171979         | 2021522      | 2.72%          | 0.064%        |
| 25        | 5.357       | 5.340        | 5.375      | VV       | 388653         | 4575047      | 6.17%          | 0.144%        |
| 26        | 5.391       | 5.375        | 5.429      | VV       | 125843         | 2491256      | 3.36%          | 0.079%        |
| 27        | 5.458       | 5.429        | 5.469      | VV       | 59805          | 1033627      | 1.39%          | 0.033%        |
| 28        | 5.490       | 5.469        | 5.504      | VV       | 143895         | 2086478      | 2.81%          | 0.066%        |
| 29        | 5.513       | 5.504        | 5.524      | VV       | 102693         | 1121962      | 1.51%          | 0.035%        |
| 30        | 5.532       | 5.524        | 5.536      | VV       | 86162          | 612639       | 0.83%          | 0.019%        |
| 31        | 5.555       | 5.536        | 5.569      | VV       | 134760         | 2094405      | 2.82%          | 0.066%        |
| 32        | 5.585       | 5.569        | 5.601      | VV       | 165966         | 2354512      | 3.17%          | 0.074%        |
| 33        | 5.616       | 5.601        | 5.641      | VV       | 108707         | 2214198      | 2.98%          | 0.070%        |
| 34        | 5.650       | 5.641        | 5.665      | VV       | 80665          | 943893       | 1.27%          | 0.030%        |
| 35        | 5.678       | 5.665        | 5.686      | VV       | 67591          | 738914       | 1.00%          | 0.023%        |
| 36        | 5.705       | 5.686        | 5.714      | VV       | 294430         | 3245650      | 4.37%          | 0.102%        |

Page 1

|    |       |       |       |    |         |          |        |        |
|----|-------|-------|-------|----|---------|----------|--------|--------|
|    |       |       |       |    |         |          |        |        |
|    |       |       |       |    | rteres  |          |        |        |
| 37 | 5.723 | 5.714 | 5.746 | VV | 286373  | 3491383  | 4.71%  | 0.110% |
| 38 | 5.758 | 5.746 | 5.770 | VV | 76480   | 974810   |        |        |
| 39 | 5.786 | 5.770 | 5.818 | VV | 92432   | 2020440  |        |        |
| 40 | 5.838 | 5.818 | 5.851 | VV | 91563   | 1379142  |        |        |
|    |       |       |       |    |         |          |        |        |
| 41 | 5.863 | 5.851 | 5.871 | VV | 86061   | 905813   |        |        |
| 42 | 5.895 | 5.871 | 5.924 | VV | 424465  | 7735097  | 10.31% | 0.073% |
| 43 | 5.934 | 5.924 | 5.952 | VV | 181740  | 2305798  | 3.11%  | 0.073% |
| 44 | 5.974 | 5.952 | 5.984 | VV | 148164  | 2262107  | 3.05%  | 0.071% |
| 45 | 6.019 | 5.984 | 6.044 | VV | 407209  | 9999215  | 13.48% | 0.315% |
|    |       |       |       |    |         |          |        |        |
| 46 | 6.056 | 6.044 | 6.067 | VV | 205649  | 2349938  | 3.17%  | 0.074% |
| 47 | 6.077 | 6.067 | 6.089 | VV | 179850  | 2083221  | 2.81%  | 0.066% |
| 48 | 6.095 | 6.089 | 6.110 | VV | 152634  | 1615130  | 2.18%  | 0.051% |
| 49 | 6.125 | 6.110 | 6.131 | VV | 146746  | 1563128  | 2.11%  | 0.049% |
| 50 | 6.142 | 6.131 | 6.166 | VV | 184316  | 2422499  | 3.26%  | 0.076% |
|    |       |       |       |    |         |          |        |        |
| 51 | 6.192 | 6.166 | 6.209 | VV | 256328  | 3330665  | 4.49%  | 0.105% |
| 52 | 6.244 | 6.209 | 6.261 | VV | 317963  | 5378157  | 7.25%  | 0.169% |
| 53 | 6.276 | 6.261 | 6.285 | VV | 230373  | 2621028  | 3.53%  | 0.083% |
| 54 | 6.295 | 6.285 | 6.301 | VV | 229460  | 2101850  | 2.83%  | 0.066% |
| 55 | 6.316 | 6.301 | 6.330 | VV | 284413  | 4236919  | 5.71%  | 0.134% |
|    |       |       |       |    |         |          |        |        |
| 56 | 6.339 | 6.330 | 6.358 | VV | 204525  | 2692856  | 3.63%  | 0.085% |
| 57 | 6.384 | 6.358 | 6.403 | VV | 239538  | 4793931  | 6.46%  | 0.151% |
| 58 | 6.426 | 6.403 | 6.457 | VV | 384255  | 8731164  | 11.77% | 0.275% |
| 59 | 6.469 | 6.457 | 6.493 | VV | 251190  | 4713638  | 6.35%  | 0.149% |
| 60 | 6.509 | 6.493 | 6.522 | VV | 282929  | 3681339  | 4.96%  | 0.116% |
|    |       |       |       |    |         |          |        |        |
| 61 | 6.552 | 6.522 | 6.561 | VV | 320490  | 6498945  | 8.76%  | 0.205% |
| 62 | 6.566 | 6.561 | 6.595 | VV | 296826  | 4847851  | 6.53%  | 0.153% |
| 63 | 6.615 | 6.595 | 6.639 | VV | 332458  | 6474636  | 8.73%  | 0.204% |
| 64 | 6.661 | 6.639 | 6.679 | VV | 390552  | 7216797  | 9.73%  | 0.227% |
| 65 | 6.686 | 6.679 | 6.703 | VV | 257626  | 3327836  | 4.48%  | 0.105% |
|    |       |       |       |    |         |          |        |        |
| 66 | 6.711 | 6.703 | 6.722 | VV | 206351  | 2284126  | 3.08%  | 0.072% |
| 67 | 6.743 | 6.722 | 6.791 | VV | 428956  | 10654764 | 14.36% | 0.336% |
| 68 | 6.829 | 6.791 | 6.842 | VV | 286739  | 6599865  | 8.89%  | 0.208% |
| 69 | 6.866 | 6.842 | 6.877 | VV | 311279  | 5856590  | 7.89%  | 0.185% |
| 70 | 6.899 | 6.877 | 6.920 | VV | 946339  | 14169179 | 19.10% | 0.447% |
|    |       |       |       |    |         |          |        |        |
| 71 | 6.936 | 6.920 | 6.958 | VV | 511669  | 8381216  | 11.30% | 0.264% |
| 72 | 6.971 | 6.958 | 6.983 | VV | 311715  | 4003174  | 5.40%  | 0.126% |
| 73 | 6.995 | 6.983 | 7.006 | VV | 261567  | 3452933  | 4.65%  | 0.109% |
| 74 | 7.025 | 7.006 | 7.046 | VV | 508801  | 8120389  | 10.94% | 0.256% |
| 75 | 7.073 | 7.046 | 7.097 | VV | 585074  | 11673061 | 15.73% | 0.368% |
|    |       |       |       |    |         |          |        |        |
| 76 | 7.107 | 7.097 | 7.121 | VV | 316540  | 3990166  | 5.38%  | 0.126% |
| 77 | 7.149 | 7.121 | 7.175 | VV | 629773  | 12575125 | 16.95% | 0.396% |
| 78 | 7.215 | 7.175 | 7.235 | VV | 353770  | 9943988  | 13.40% | 0.313% |
| 79 | 7.276 | 7.235 | 7.296 | VV | 565308  | 14896608 | 20.08% | 0.469% |
| 80 | 7.316 | 7.296 | 7.348 | VV | 712325  | 13662680 | 18.41% | 0.431% |
|    |       |       |       |    |         |          |        |        |
| 81 | 7.376 | 7.348 | 7.410 | VV | 876356  | 19009041 | 25.62% | 0.599% |
| 82 | 7.423 | 7.410 | 7.442 | VV | 370460  | 6001310  | 8.09%  | 0.189% |
| 83 | 7.471 | 7.442 | 7.499 | VV | 1617872 | 26997109 | 36.38% | 0.851% |
| 84 | 7.517 | 7.499 | 7.545 | VV | 948414  | 15929906 | 21.47% | 0.502% |
| 85 | 7.568 | 7.545 | 7.585 | VV | 589575  | 10088506 | 13.60% | 0.318% |
|    |       |       |       |    |         |          |        |        |
| 86 | 7.595 | 7.585 | 7.605 | VV | 374460  | 4444708  | 5.99%  | 0.140% |
| 87 | 7.615 | 7.605 | 7.627 | VV | 369538  | 4642837  | 6.26%  | 0.146% |
| 88 | 7.668 | 7.627 | 7.682 | VV | 675610  | 16484012 | 22.22% | 0.519% |
| 89 | 7.691 | 7.682 | 7.715 | VV | 507539  | 8516639  | 11.48% | 0.268% |

Instrument :

FID\_F

ClientSampleId :

EX-5-TPH-1MSD

4.71% 0.110%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

|     |       |       |       |    |         |          |               |
|-----|-------|-------|-------|----|---------|----------|---------------|
|     |       |       |       |    |         |          |               |
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|     |       |       |       |    |         |          |               |
|     |       |       |       |    |         |          |               |
|     |       |       |       |    |         |          |               |
|     |       |       |       |    |         |          |               |
| 90  | 7.742 | 7.715 | 7.769 | VV | 511895  | 14724030 | 19.84% 0.464% |
| 91  | 7.778 | 7.769 | 7.796 | VV | 491289  | 7202609  |               |
| 92  | 7.817 | 7.796 | 7.821 | VV | 431083  | 5986815  |               |
| 93  | 7.825 | 7.821 | 7.842 | VV | 430604  | 5158563  |               |
| 94  | 7.868 | 7.842 | 7.897 | VV | 991885  | 21247324 |               |
| 95  | 7.917 | 7.897 | 7.938 | VV | 556525  | 10330277 |               |
| 96  | 7.958 | 7.938 | 7.971 | VV | 439358  | 7363091  | 9.92% 0.232%  |
| 97  | 7.985 | 7.971 | 7.996 | VV | 520897  | 6883279  | 9.28% 0.217%  |
| 98  | 8.009 | 7.996 | 8.015 | VV | 541537  | 5684592  | 7.66% 0.179%  |
| 99  | 8.033 | 8.015 | 8.050 | VV | 754629  | 13128350 | 17.69% 0.414% |
| 100 | 8.063 | 8.050 | 8.098 | VV | 542535  | 13016048 | 17.54% 0.410% |
| 101 | 8.127 | 8.098 | 8.145 | VV | 669536  | 14170077 | 19.10% 0.447% |
| 102 | 8.163 | 8.145 | 8.195 | VV | 567055  | 15272093 | 20.58% 0.481% |
| 103 | 8.221 | 8.195 | 8.241 | VV | 569974  | 13336840 | 17.97% 0.420% |
| 104 | 8.277 | 8.241 | 8.293 | VV | 815824  | 19460860 | 26.23% 0.613% |
| 105 | 8.309 | 8.293 | 8.354 | VV | 870260  | 24041232 | 32.40% 0.758% |
| 106 | 8.404 | 8.354 | 8.432 | VV | 2156644 | 52116162 | 70.24% 1.642% |
| 107 | 8.454 | 8.432 | 8.473 | VV | 643409  | 14000789 | 18.87% 0.441% |
| 108 | 8.506 | 8.473 | 8.521 | VV | 1603615 | 31671118 | 42.68% 0.998% |
| 109 | 8.534 | 8.521 | 8.550 | VV | 1447847 | 19062665 | 25.69% 0.601% |
| 110 | 8.560 | 8.550 | 8.564 | VV | 732768  | 6121749  | 8.25% 0.193%  |
| 111 | 8.579 | 8.564 | 8.604 | VV | 869357  | 17574137 | 23.68% 0.554% |
| 112 | 8.625 | 8.604 | 8.641 | VV | 830813  | 15624464 | 21.06% 0.492% |
| 113 | 8.672 | 8.641 | 8.712 | VV | 1040859 | 33411512 | 45.03% 1.053% |
| 114 | 8.745 | 8.712 | 8.763 | VV | 1459560 | 28137357 | 37.92% 0.887% |
| 115 | 8.777 | 8.763 | 8.788 | VV | 843126  | 12146684 | 16.37% 0.383% |
| 116 | 8.799 | 8.788 | 8.815 | VV | 829037  | 11758529 | 15.85% 0.371% |
| 117 | 8.828 | 8.815 | 8.842 | VV | 708973  | 10316901 | 13.90% 0.325% |
| 118 | 8.869 | 8.842 | 8.895 | VV | 685188  | 19589459 | 26.40% 0.617% |
| 119 | 8.910 | 8.895 | 8.921 | VV | 579545  | 8361446  | 11.27% 0.264% |
| 120 | 8.942 | 8.921 | 8.957 | VV | 909188  | 15807761 | 21.30% 0.498% |
| 121 | 8.976 | 8.957 | 8.993 | VV | 932076  | 17986129 | 24.24% 0.567% |
| 122 | 9.002 | 8.993 | 9.018 | VV | 727524  | 9744692  | 13.13% 0.307% |
| 123 | 9.041 | 9.018 | 9.064 | VV | 1360229 | 25492577 | 34.36% 0.803% |
| 124 | 9.131 | 9.064 | 9.163 | VV | 2409734 | 66351933 | 89.42% 2.091% |
| 125 | 9.173 | 9.163 | 9.188 | VV | 689624  | 9370629  | 12.63% 0.295% |
| 126 | 9.206 | 9.188 | 9.213 | VV | 794801  | 11106382 | 14.97% 0.350% |
| 127 | 9.232 | 9.213 | 9.249 | VV | 1394396 | 22574820 | 30.42% 0.711% |
| 128 | 9.265 | 9.249 | 9.287 | VV | 1072376 | 19907469 | 26.83% 0.627% |
| 129 | 9.301 | 9.287 | 9.318 | VV | 796557  | 12864795 | 17.34% 0.405% |
| 130 | 9.353 | 9.318 | 9.369 | VV | 1062311 | 25371116 | 34.19% 0.800% |
| 131 | 9.404 | 9.369 | 9.421 | VV | 1392296 | 31406834 | 42.33% 0.990% |
| 132 | 9.448 | 9.421 | 9.467 | VV | 1518728 | 28742027 | 38.74% 0.906% |
| 133 | 9.495 | 9.467 | 9.521 | VV | 851058  | 23247835 | 31.33% 0.733% |
| 134 | 9.561 | 9.521 | 9.578 | VV | 1193899 | 28335762 | 38.19% 0.893% |
| 135 | 9.594 | 9.578 | 9.608 | VV | 1149065 | 16203853 | 21.84% 0.511% |
| 136 | 9.613 | 9.608 | 9.624 | VV | 656605  | 5862184  | 7.90% 0.185%  |
| 137 | 9.640 | 9.624 | 9.656 | VV | 706771  | 12920934 | 17.41% 0.407% |
| 138 | 9.699 | 9.656 | 9.726 | VV | 1355741 | 38103225 | 51.35% 1.201% |
| 139 | 9.737 | 9.726 | 9.757 | VV | 733846  | 12818888 | 17.28% 0.404% |
| 140 | 9.780 | 9.757 | 9.796 | VV | 1402001 | 23585256 | 31.79% 0.743% |
| 141 | 9.805 | 9.796 | 9.830 | VV | 1049099 | 17455251 | 23.52% 0.550% |

Page 3

Instrument :

FID\_F

ClientSampleId :

EX-5-TPH-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :Ankita Jodhani 10/25/2024



|     |        |        |        |    |         |                                   |                             |
|-----|--------|--------|--------|----|---------|-----------------------------------|-----------------------------|
|     |        |        |        |    |         | Instrument :<br>FID_F             |                             |
|     |        |        |        |    |         | ClientSampleId :<br>EX-5-TPH-1MSD |                             |
| 195 | 12.329 | 12.315 | 12.363 | VV | 680471  | 18065691                          | 24.35% 0.569%               |
| 196 | 12.394 | 12.363 | 12.429 | VV | 613330  | 23068108                          | Manual IntegrationsAPPROVED |
| 197 | 12.440 | 12.429 | 12.483 | VV | 584243  | 17203938                          |                             |
| 198 | 12.508 | 12.483 | 12.522 | VV | 606283  | 13266629                          |                             |
| 199 | 12.582 | 12.522 | 12.602 | VV | 1069238 | 36629800                          |                             |
| 200 | 12.622 | 12.602 | 12.638 | VV | 544450  | 11317728                          |                             |
| 201 | 12.655 | 12.638 | 12.669 | VV | 559786  | 9625507                           | 12.97% 0.303%               |
| 202 | 12.686 | 12.669 | 12.703 | VV | 572421  | 10994750                          | 14.82% 0.346%               |
| 203 | 12.713 | 12.703 | 12.722 | VV | 558288  | 6135131                           | 8.27% 0.193%                |
| 204 | 12.731 | 12.722 | 12.758 | VV | 561672  | 10893267                          | 14.68% 0.343%               |
| 205 | 12.784 | 12.758 | 12.835 | VV | 648351  | 24408033                          | 32.89% 0.769%               |
| 206 | 12.861 | 12.835 | 12.872 | VV | 556416  | 11006786                          | 14.83% 0.347%               |
| 207 | 12.894 | 12.872 | 12.913 | VV | 750834  | 15128280                          | 20.39% 0.477%               |
| 208 | 12.937 | 12.913 | 12.983 | VV | 845794  | 25064647                          | 33.78% 0.790%               |
| 209 | 13.008 | 12.983 | 13.050 | VV | 785935  | 21181049                          | 28.55% 0.668%               |
| 210 | 13.059 | 13.050 | 13.063 | VV | 389037  | 2957519                           | 3.99% 0.093%                |
| 211 | 13.081 | 13.063 | 13.117 | VV | 406219  | 12296015                          | 16.57% 0.388%               |
| 212 | 13.130 | 13.117 | 13.154 | VV | 406761  | 8322620                           | 11.22% 0.262%               |
| 213 | 13.160 | 13.154 | 13.175 | VV | 348627  | 4294469                           | 5.79% 0.135%                |
| 214 | 13.197 | 13.175 | 13.204 | VV | 373344  | 6209365                           | 8.37% 0.196%                |
| 215 | 13.214 | 13.204 | 13.232 | VV | 371351  | 6136615                           | 8.27% 0.193%                |
| 216 | 13.255 | 13.232 | 13.276 | VV | 366491  | 8907164                           | 12.00% 0.281%               |
| 217 | 13.303 | 13.276 | 13.338 | VV | 594384  | 15057411                          | 20.29% 0.475%               |
| 218 | 13.354 | 13.338 | 13.379 | VV | 343934  | 7840942                           | 10.57% 0.247%               |
| 219 | 13.392 | 13.379 | 13.406 | VV | 346533  | 5466936                           | 7.37% 0.172%                |
| 220 | 13.432 | 13.406 | 13.457 | VV | 474664  | 11732980                          | 15.81% 0.370%               |
| 221 | 13.462 | 13.457 | 13.466 | VV | 321273  | 1749633                           | 2.36% 0.055%                |
| 222 | 13.471 | 13.466 | 13.477 | VV | 324710  | 2180186                           | 2.94% 0.069%                |
| 223 | 13.478 | 13.477 | 13.501 | VV | 324294  | 4442157                           | 5.99% 0.140%                |
| 224 | 13.507 | 13.501 | 13.529 | VV | 295407  | 4380295                           | 5.90% 0.138%                |
| 225 | 13.587 | 13.529 | 13.609 | VV | 349685  | 14248285                          | 19.20% 0.449%               |
| 226 | 13.630 | 13.609 | 13.673 | VV | 364868  | 10902228                          | 14.69% 0.344%               |
| 227 | 13.692 | 13.673 | 13.707 | VV | 273239  | 5169923                           | 6.97% 0.163%                |
| 228 | 13.722 | 13.707 | 13.741 | VV | 282864  | 5227913                           | 7.05% 0.165%                |
| 229 | 13.793 | 13.741 | 13.840 | VV | 659679  | 21064445                          | 28.39% 0.664%               |
| 230 | 13.848 | 13.840 | 13.852 | VV | 225513  | 1610923                           | 2.17% 0.051%                |
| 231 | 13.856 | 13.852 | 13.862 | VV | 226499  | 1278369                           | 1.72% 0.040%                |
| 232 | 13.882 | 13.862 | 13.907 | VV | 272984  | 6360359                           | 8.57% 0.200%                |
| 233 | 13.926 | 13.907 | 13.940 | VV | 190815  | 3615413                           | 4.87% 0.114%                |
| 234 | 13.959 | 13.940 | 13.965 | VV | 194745  | 2819623                           | 3.80% 0.089%                |
| 235 | 13.988 | 13.965 | 14.009 | VV | 248387  | 5685595                           | 7.66% 0.179%                |
| 236 | 14.033 | 14.009 | 14.099 | VV | 244764  | 10537269                          | 14.20% 0.332%               |
| 237 | 14.128 | 14.099 | 14.149 | VV | 376087  | 7501714                           | 10.11% 0.236%               |
| 238 | 14.157 | 14.149 | 14.175 | VV | 195610  | 2834003                           | 3.82% 0.089%                |
| 239 | 14.198 | 14.175 | 14.235 | VV | 173802  | 5731312                           | 7.72% 0.181%                |
| 240 | 14.257 | 14.235 | 14.300 | VV | 149269  | 5321078                           | 7.17% 0.168%                |
| 241 | 14.307 | 14.300 | 14.320 | VV | 117885  | 1352525                           | 1.82% 0.043%                |
| 242 | 14.358 | 14.320 | 14.394 | VV | 175959  | 6362943                           | 8.58% 0.201%                |
| 243 | 14.429 | 14.394 | 14.472 | VV | 127770  | 5399258                           | 7.28% 0.170%                |
| 244 | 14.498 | 14.472 | 14.542 | VV | 133891  | 4849807                           | 6.54% 0.153%                |
| 245 | 14.546 | 14.542 | 14.567 | VV | 111900  | 1532650                           | 2.07% 0.048%                |
| 246 | 14.594 | 14.567 | 14.600 | VV | 109837  | 2138914                           | 2.88% 0.067%                |



| rteres |        |        |        |    |        |         |       |        |  |
|--------|--------|--------|--------|----|--------|---------|-------|--------|--|
| 247    | 14.607 | 14.600 | 14.627 | VV | 108442 | 1610948 | 2.17% | 0.051% |  |
| 248    | 14.642 | 14.627 | 14.664 | VV | 100454 | 1981374 |       |        |  |
| 249    | 14.689 | 14.664 | 14.706 | VV | 101197 | 2266046 |       |        |  |
| 250    | 14.715 | 14.706 | 14.730 | VV | 93771  | 1275324 |       |        |  |
| 251    | 14.754 | 14.730 | 14.770 | VV | 98445  | 2146447 |       |        |  |
| 252    | 14.813 | 14.770 | 14.839 | VV | 118908 | 4103862 |       |        |  |
| 253    | 14.852 | 14.839 | 14.876 | VV | 100274 | 1814561 | 2.45% | 0.057% |  |
| 254    | 14.886 | 14.876 | 14.892 | VV | 72643  | 658652  | 0.89% | 0.021% |  |
| 255    | 14.898 | 14.892 | 14.914 | VV | 72889  | 918555  | 1.24% | 0.029% |  |
| 256    | 14.947 | 14.914 | 14.952 | VV | 76390  | 1629629 | 2.20% | 0.051% |  |
| 257    | 14.955 | 14.952 | 14.961 | VV | 75573  | 388834  | 0.52% | 0.012% |  |
| 258    | 14.973 | 14.961 | 14.997 | VV | 76914  | 1474312 | 1.99% | 0.046% |  |
| 259    | 15.022 | 14.997 | 15.071 | VV | 151202 | 3745300 | 5.05% | 0.118% |  |
| 260    | 15.075 | 15.071 | 15.090 | VV | 51689  | 570258  | 0.77% | 0.018% |  |
| 261    | 15.117 | 15.090 | 15.134 | VV | 65089  | 1440694 | 1.94% | 0.045% |  |
| 262    | 15.161 | 15.134 | 15.181 | VV | 135192 | 2337363 | 3.15% | 0.074% |  |
| 263    | 15.227 | 15.181 | 15.275 | VV | 243942 | 5987032 | 8.07% | 0.189% |  |
| 264    | 15.283 | 15.275 | 15.288 | VV | 50239  | 374864  | 0.51% | 0.012% |  |
| 265    | 15.315 | 15.288 | 15.346 | VV | 57350  | 1760060 | 2.37% | 0.055% |  |
| 266    | 15.365 | 15.346 | 15.415 | VV | 65519  | 1880771 | 2.53% | 0.059% |  |
| 267    | 15.423 | 15.415 | 15.429 | VV | 30737  | 244296  | 0.33% | 0.008% |  |
| 268    | 15.435 | 15.429 | 15.440 | VV | 29744  | 200625  | 0.27% | 0.006% |  |
| 269    | 15.471 | 15.440 | 15.500 | VV | 52275  | 1464849 | 1.97% | 0.046% |  |
| 270    | 15.505 | 15.500 | 15.530 | VV | 39671  | 611540  | 0.82% | 0.019% |  |
| 271    | 15.541 | 15.530 | 15.549 | VV | 31803  | 334977  | 0.45% | 0.011% |  |
| 272    | 15.554 | 15.549 | 15.563 | VV | 31016  | 243124  | 0.33% | 0.008% |  |
| 273    | 15.601 | 15.563 | 15.632 | VV | 56805  | 1496805 | 2.02% | 0.047% |  |
| 274    | 15.666 | 15.632 | 15.721 | VV | 29995  | 1228918 | 1.66% | 0.039% |  |
| 275    | 15.773 | 15.721 | 15.783 | VV | 47020  | 1284204 | 1.73% | 0.040% |  |
| 276    | 15.789 | 15.783 | 15.813 | VV | 44204  | 632444  | 0.85% | 0.020% |  |
| 277    | 15.835 | 15.813 | 15.855 | VV | 47679  | 795176  | 1.07% | 0.025% |  |
| 278    | 15.882 | 15.855 | 15.905 | VV | 25174  | 551147  | 0.74% | 0.017% |  |
| 279    | 15.920 | 15.905 | 15.938 | VV | 16193  | 251866  | 0.34% | 0.008% |  |
| 280    | 15.974 | 15.938 | 15.981 | VV | 28287  | 496986  | 0.67% | 0.016% |  |
| 281    | 15.996 | 15.981 | 16.030 | VV | 35880  | 738660  | 1.00% | 0.023% |  |
| 282    | 16.063 | 16.030 | 16.108 | VV | 43386  | 1194156 | 1.61% | 0.038% |  |
| 283    | 16.124 | 16.108 | 16.151 | VV | 15626  | 325123  | 0.44% | 0.010% |  |
| 284    | 16.165 | 16.151 | 16.185 | VV | 11244  | 171604  | 0.23% | 0.005% |  |
| 285    | 16.203 | 16.185 | 16.212 | VV | 12283  | 144747  | 0.20% | 0.005% |  |
| 286    | 16.248 | 16.212 | 16.273 | VV | 202916 | 3017831 | 4.07% | 0.095% |  |
| 287    | 16.288 | 16.273 | 16.324 | VV | 30383  | 580428  | 0.78% | 0.018% |  |
| 288    | 16.340 | 16.324 | 16.371 | VV | 10027  | 139132  | 0.19% | 0.004% |  |
| 289    | 16.393 | 16.371 | 16.401 | VV | 5302   | 43593   | 0.06% | 0.001% |  |
| 290    | 16.441 | 16.401 | 16.452 | VV | 25935  | 503002  | 0.68% | 0.016% |  |
| 291    | 16.458 | 16.452 | 16.479 | VV | 23689  | 306245  | 0.41% | 0.010% |  |
| 292    | 16.497 | 16.479 | 16.519 | VV | 15035  | 306925  | 0.41% | 0.010% |  |
| 293    | 16.547 | 16.519 | 16.551 | VV | 29958  | 405536  | 0.55% | 0.013% |  |
| 294    | 16.561 | 16.551 | 16.599 | VV | 35866  | 777149  | 1.05% | 0.024% |  |
| 295    | 16.617 | 16.599 | 16.662 | VV | 28334  | 622422  | 0.84% | 0.020% |  |
| 296    | 16.717 | 16.662 | 16.765 | PV | 87826  | 2029011 | 2.73% | 0.064% |  |
| 297    | 16.770 | 16.765 | 16.800 | VV | 8961   | 106681  | 0.14% | 0.003% |  |
| 298    | 16.846 | 16.800 | 16.872 | VV | 24917  | 465518  | 0.63% | 0.015% |  |
| 299    | 16.886 | 16.872 | 16.892 | VV | 15572  | 141996  | 0.19% | 0.004% |  |

Instrument :

FID\_F

ClientSampleId :

EX-5-TPH-1MSD

2.17% 0.051%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :Ankita Jodhani 10/25/2024

2.45% 0.057%

0.89% 0.021%

1.24% 0.029%

2.20% 0.051%

0.52% 0.012%

1.99% 0.046%

5.05% 0.118%

0.77% 0.018%

1.94% 0.045%

3.15% 0.074%

8.07% 0.189%

0.51% 0.012%

2.37% 0.055%

2.53% 0.059%

0.33% 0.008%

0.27% 0.006%

1.97% 0.046%

0.82% 0.019%

0.45% 0.011%

0.33% 0.008%

2.02% 0.047%

1.66% 0.039%

1.73% 0.040%

0.85% 0.020%

1.07% 0.025%

0.74% 0.017%

0.34% 0.008%

0.67% 0.016%

1.00% 0.023%

1.61% 0.038%

0.44% 0.010%

0.23% 0.005%

0.20% 0.005%

4.07% 0.095%

0.78% 0.018%

0.19% 0.004%

0.06% 0.001%

0.68% 0.016%

0.41% 0.010%

0.41% 0.010%

0.55% 0.013%

1.05% 0.024%

0.84% 0.020%

2.73% 0.064%

0.14% 0.003%

0.63% 0.015%

0.19% 0.004%

|     |        |        |        |    |                         |         |            |        |
|-----|--------|--------|--------|----|-------------------------|---------|------------|--------|
|     |        |        |        |    | rters                   |         |            |        |
| 300 | 16.905 | 16.892 | 16.919 | VV | 20799                   | 273247  | 0.37%      | 0.009% |
| 301 | 16.948 | 16.919 | 16.982 | VV | 31904                   | 871783  |            |        |
| 302 | 17.037 | 16.982 | 17.062 | VV | 59697                   | 1564232 |            |        |
| 303 | 17.093 | 17.062 | 17.125 | VV | 63770                   | 1017846 |            |        |
| 304 | 17.154 | 17.125 | 17.160 | PV | 3956                    | 35579   |            |        |
| 305 | 17.197 | 17.160 | 17.276 | VV | 207957                  | 3565941 |            |        |
| 306 | 17.293 | 17.276 | 17.299 | PV | 3850                    | 25666   | 0.03%      | 0.001% |
|     |        |        |        |    | Sum of corrected areas: |         | 3173112510 |        |

Instrument :  
FID\_F  
ClientSampleId :  
EX-5-TPH-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel    10/25/2024  
Supervised By :Ankita Jodhani    10/25/2024

FF102124.M Fri Oct 25 05:03:35 2024

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## Manual Integration Report

| Sample ID       | ClientID ID | File ID    | Sequence ID | Parameter                | Supervised By | Supervised On          | Reason                                  |
|-----------------|-------------|------------|-------------|--------------------------|---------------|------------------------|-----------------------------------------|
| RT MARKER       |             | FF014758.D | FF102424    | N-OCTACOSANE             | Ankita        | 10/25/2024 11:44:20 AM | Peak Integrated by Software incorrectly |
| P4495-14        |             | FF014761.D | FF102424    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/25/2024 11:44:21 AM | Peak Integrated by Software incorrectly |
| 50 PPM TRPH STD |             | FF014764.D | FF102424    | N-HEXADECANE             | Ankita        | 10/25/2024 11:44:22 AM | Peak Integrated by Software incorrectly |
| 50 PPM TRPH STD |             | FF014764.D | FF102424    | N-TETRACOSANE            | Ankita        | 10/25/2024 11:44:22 AM | Peak Integrated by Software incorrectly |
| P4518-01        |             | FF014765.D | FF102424    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/25/2024 11:44:24 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-DOCOSANE               | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-DODECANE               | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-DOTRIACONTANE          | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-EICOSANE               | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-HEXACOSANE             | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-HEXADECANE             | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-OCTACOSANE             | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-OCTADECANE             | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-OCTATRIACONTANE        | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-TETRACONTANE           | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-TETRACOSANE            | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-TETRADECANE            | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-TETRATRIACONTANE       | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | N-TRIACONTANE            | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MS      |             | FF014766.D | FF102424    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/25/2024 11:44:27 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |             | FF014767.D | FF102424    | N-DOCOSANE               | Ankita        | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |             | FF014767.D | FF102424    | N-DODECANE               | Ankita        | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
|                 |             |            |             |                          |               |                        |                                         |

### Manual Integration Report

|                 |  |            |          |                          |        |                        |                                         |
|-----------------|--|------------|----------|--------------------------|--------|------------------------|-----------------------------------------|
| P4518-01MSD     |  | FF014767.D | FF102424 | N-DOTRIACONTANE          | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-EICOSANE               | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-HEXACOSANE             | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-HEXADECANE             | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-HEXATRIACONTANE        | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-OCTACOSANE             | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-OCTADECANE             | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-OCTATRIACONTANE        | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-TETRACOSANE            | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-TETRADECANE            | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-TETRATRIACONTANE       | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | N-TRIACONTANE            | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-01MSD     |  | FF014767.D | FF102424 | TETRACOSANE-d50 (SURROGA | Ankita | 10/25/2024 11:44:29 AM | Peak Integrated by Software incorrectly |
| P4518-05        |  | FF014768.D | FF102424 | TETRACOSANE-d50 (SURROGA | Ankita | 10/25/2024 11:44:31 AM | Peak Integrated by Software incorrectly |
| P4518-04        |  | FF014769.D | FF102424 | TETRACOSANE-d50 (SURROGA | Ankita | 10/25/2024 11:44:32 AM | Peak Integrated by Software incorrectly |
| P4518-03        |  | FF014770.D | FF102424 | TETRACOSANE-d50 (SURROGA | Ankita | 10/25/2024 11:44:34 AM | Peak Integrated by Software incorrectly |
| P4518-02        |  | FF014771.D | FF102424 | TETRACOSANE-d50 (SURROGA | Ankita | 10/25/2024 11:44:36 AM | Peak Integrated by Software incorrectly |
| 50 PPM TRPH STD |  | FF014773.D | FF102424 | N-TETRACOSANE            | Ankita | 10/25/2024 11:44:39 AM | Peak Integrated by Software incorrectly |
|                 |  |            |          |                          |        |                        |                                         |

### Manual Integration Report

| Sample ID       | ClientID ID | File ID    | Sequence ID | Parameter                | Supervised By | Supervised On          | Reason                                  |
|-----------------|-------------|------------|-------------|--------------------------|---------------|------------------------|-----------------------------------------|
| P4518-01        |             | FF014779.D | FF102524    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/28/2024 10:36:32 AM | Peak Integrated by Software incorrectly |
| P4518-03        |             | FF014782.D | FF102524    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/28/2024 10:36:34 AM | Peak Integrated by Software incorrectly |
| .BLK            |             | FF014786.D | FF102524    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/28/2024 10:36:35 AM | Peak Integrated by Software incorrectly |
| 50 PPM TRPH STD |             | FF014787.D | FF102524    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/28/2024 10:36:37 AM | Peak Integrated by Software incorrectly |
| .BLK            |             | FF014788.D | FF102524    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/28/2024 10:36:39 AM | Peak Integrated by Software incorrectly |
| 50 PPM TRPH STD |             | FF014789.D | FF102524    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/28/2024 10:36:40 AM | Peak Integrated by Software incorrectly |
| PB164426BS      |             | FF014792.D | FF102524    | N-HEXATRIACONTANE        | Ankita        | 10/28/2024 10:36:42 AM | Peak Integrated by Software incorrectly |
| P4509-01        |             | FF014793.D | FF102524    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/28/2024 10:36:43 AM | Peak Integrated by Software incorrectly |
| P4509-01MS      |             | FF014794.D | FF102524    | N-HEXATRIACONTANE        | Ankita        | 10/28/2024 10:36:45 AM | Peak Integrated by Software incorrectly |
| P4509-01MS      |             | FF014794.D | FF102524    | N-OCTATRIACONTANE        | Ankita        | 10/28/2024 10:36:45 AM | Peak Integrated by Software incorrectly |
| P4509-01MS      |             | FF014794.D | FF102524    | N-TETRACONTANE           | Ankita        | 10/28/2024 10:36:45 AM | Peak Integrated by Software incorrectly |
| P4509-01MS      |             | FF014794.D | FF102524    | N-TETRATRIACONTANE       | Ankita        | 10/28/2024 10:36:45 AM | Peak Integrated by Software incorrectly |
| P4509-01MS      |             | FF014794.D | FF102524    | N-TRIACONTANE            | Ankita        | 10/28/2024 10:36:45 AM | Peak Integrated by Software incorrectly |
| P4509-01MSD     |             | FF014795.D | FF102524    | N-HEXATRIACONTANE        | Ankita        | 10/28/2024 10:36:46 AM | Peak Integrated by Software incorrectly |
| P4509-01MSD     |             | FF014795.D | FF102524    | N-OCTADECANE             | Ankita        | 10/28/2024 10:36:46 AM | Peak Integrated by Software incorrectly |
| P4509-01MSD     |             | FF014795.D | FF102524    | N-OCTATRIACONTANE        | Ankita        | 10/28/2024 10:36:46 AM | Peak Integrated by Software incorrectly |
| P4509-01MSD     |             | FF014795.D | FF102524    | N-TETRACONTANE           | Ankita        | 10/28/2024 10:36:46 AM | Peak Integrated by Software incorrectly |
| P4509-01MSD     |             | FF014795.D | FF102524    | N-TRIACONTANE            | Ankita        | 10/28/2024 10:36:46 AM | Peak Integrated by Software incorrectly |
| P4509-01        |             | FF014796.D | FF102524    | TETRACOSANE-d50 (SURROGA | Ankita        | 10/28/2024 10:36:48 AM | Peak Integrated by Software incorrectly |
| 50 PPM TRPH STD |             | FF014799.D | FF102524    | N-TETRACONTANE           | Ankita        | 10/28/2024 10:36:49 AM | Peak Integrated by Software incorrectly |
|                 |             |            |             |                          |               |                        |                                         |

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF102124**

|                                                                    |                                         |                   |                               |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|-------------------------------|
| Review By                                                          | yogesh                                  | Review On         | 10/21/2024 1:40:56 PM         |
| Supervise By                                                       | Ankita                                  | Supervise On      | 10/22/2024 8:58:33 AM         |
| SubDirectory                                                       | FF102124                                | HP Acquire Method | HP Processing Method FF102124 |
| <b>STD. NAME</b>                                                   | <b>STD REF.#</b>                        |                   |                               |
| Tune/Reschk<br>Initial Calibration Stds                            | PP23611,PP23613,PP23614,PP23615,PP23616 |                   |                               |
| CCC<br>Internal Standard/PEM                                       | PP23613                                 |                   |                               |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP23612,PP23617                         |                   |                               |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | MECL2        | FF014704.D     | 21 Oct 2024 14:21 | YP\AJ    | Ok     |
| 2   | I.BLK        | FF014705.D     | 21 Oct 2024 14:50 | YP\AJ    | Ok     |
| 3   | 100 TRPH STD | FF014706.D     | 21 Oct 2024 15:19 | YP\AJ    | Ok     |
| 4   | 50 TRPH STD  | FF014707.D     | 21 Oct 2024 15:48 | YP\AJ    | Ok,M   |
| 5   | 20 TRPH STD  | FF014708.D     | 21 Oct 2024 16:17 | YP\AJ    | Ok     |
| 6   | 10 TRPH STD  | FF014709.D     | 21 Oct 2024 16:46 | YP\AJ    | Ok     |
| 7   | 5 TRPH STD   | FF014710.D     | 21 Oct 2024 17:15 | YP\AJ    | Ok     |
| 8   | FF102124ICV  | FF014711.D     | 21 Oct 2024 17:44 | YP\AJ    | Ok     |

M : Manual Integration

Instrument ID: FID\_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF102424

|                                                                    |                                         |                   |                               |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|-------------------------------|
| Review By                                                          | yogesh                                  | Review On         | 10/24/2024 1:31:24 PM         |
| Supervise By                                                       | Ankita                                  | Supervise On      | 10/25/2024 11:44:57 AM        |
| SubDirectory                                                       | FF102424                                | HP Acquire Method | HP Processing Method FF102124 |
| <b>STD. NAME</b>                                                   | <b>STD REF.#</b>                        |                   |                               |
| Tune/Reschk<br>Initial Calibration Stds                            | PP23611,PP23613,PP23614,PP23615,PP23616 |                   |                               |
| CCC<br>Internal Standard/PEM                                       | PP23613                                 |                   |                               |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP23612,PP23617                         |                   |                               |

| Sr# | SampleId        | Data File Name | Date-Time         | Operator | Status   |
|-----|-----------------|----------------|-------------------|----------|----------|
| 1   | MECL2           | FF014755.D     | 24 Oct 2024 10:42 | YP\AJ    | Ok       |
| 2   | I.BLK           | FF014756.D     | 24 Oct 2024 12:00 | YP\AJ    | Ok       |
| 3   | 50 PPM TRPH STD | FF014757.D     | 24 Oct 2024 12:59 | YP\AJ    | Ok       |
| 4   | RT MARKER       | FF014758.D     | 24 Oct 2024 13:32 | YP\AJ    | Ok,M     |
| 5   | PB164381BL      | FF014759.D     | 24 Oct 2024 14:33 | YP\AJ    | Ok       |
| 6   | PB164381BS      | FF014760.D     | 24 Oct 2024 15:02 | YP\AJ    | Ok       |
| 7   | P4495-14        | FF014761.D     | 24 Oct 2024 15:31 | YP\AJ    | Dilution |
| 8   | P4495-14        | FF014762.D     | 24 Oct 2024 16:06 | YP\AJ    | Dilution |
| 9   | I.BLK           | FF014763.D     | 24 Oct 2024 16:35 | YP\AJ    | Ok       |
| 10  | 50 PPM TRPH STD | FF014764.D     | 24 Oct 2024 17:33 | YP\AJ    | Ok,M     |
| 11  | P4518-01        | FF014765.D     | 24 Oct 2024 19:29 | YP\AJ    | Dilution |
| 12  | P4518-01MS      | FF014766.D     | 24 Oct 2024 19:58 | YP\AJ    | Ok,M     |
| 13  | P4518-01MSD     | FF014767.D     | 24 Oct 2024 20:27 | YP\AJ    | Ok,M     |
| 14  | P4518-05        | FF014768.D     | 24 Oct 2024 20:56 | YP\AJ    | Dilution |
| 15  | P4518-04        | FF014769.D     | 24 Oct 2024 21:25 | YP\AJ    | Dilution |
| 16  | P4518-03        | FF014770.D     | 24 Oct 2024 21:54 | YP\AJ    | Dilution |
| 17  | P4518-02        | FF014771.D     | 24 Oct 2024 22:23 | YP\AJ    | Dilution |
| 18  | I.BLK           | FF014772.D     | 24 Oct 2024 22:52 | YP\AJ    | Ok       |
| 19  | 50 PPM TRPH STD | FF014773.D     | 24 Oct 2024 23:50 | YP\AJ    | Ok,M     |

M : Manual Integration

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF102524**

|                                                                                                    |                                         |                   |                               |
|----------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|-------------------------------|
| Review By                                                                                          | yogesh                                  | Review On         | 10/25/2024 11:01:26 AM        |
| Supervise By                                                                                       | Ankita                                  | Supervise On      | 10/28/2024 10:37:03 AM        |
| SubDirectory                                                                                       | FF102524                                | HP Acquire Method | HP Processing Method FF102124 |
| <b>STD. NAME</b>                                                                                   | <b>STD REF.#</b>                        |                   |                               |
| Tune/Reschk<br>Initial Calibration Stds                                                            | PP23611,PP23613,PP23614,PP23615,PP23616 |                   |                               |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP23613<br><br>PP23612,PP23617          |                   |                               |

| Sr# | SampleId        | Data File Name | Date-Time         | Operator | Status   |
|-----|-----------------|----------------|-------------------|----------|----------|
| 1   | MECL2           | FF014774.D     | 25 Oct 2024 05:42 | YP\AJ    | Ok       |
| 2   | I.BLK           | FF014775.D     | 25 Oct 2024 06:11 | YP\AJ    | Ok       |
| 3   | 50 PPM TRPH STD | FF014776.D     | 25 Oct 2024 06:40 | YP\AJ    | Ok       |
| 4   | RT MARKER       | FF014777.D     | 25 Oct 2024 07:08 | YP\AJ    | Ok       |
| 5   | P4495-14        | FF014778.D     | 25 Oct 2024 08:27 | YP\AJ    | Ok       |
| 6   | P4518-01        | FF014779.D     | 25 Oct 2024 08:55 | YP\AJ    | Ok,M     |
| 7   | P4518-05        | FF014780.D     | 25 Oct 2024 09:24 | YP\AJ    | Dilution |
| 8   | P4518-04        | FF014781.D     | 25 Oct 2024 09:53 | YP\AJ    | Dilution |
| 9   | P4518-03        | FF014782.D     | 25 Oct 2024 10:22 | YP\AJ    | Ok,M     |
| 10  | P4518-02        | FF014783.D     | 25 Oct 2024 10:51 | YP\AJ    | Ok       |
| 11  | P4518-05        | FF014784.D     | 25 Oct 2024 11:20 | YP\AJ    | Ok       |
| 12  | P4518-04        | FF014785.D     | 25 Oct 2024 11:49 | YP\AJ    | Ok       |
| 13  | I.BLK           | FF014786.D     | 25 Oct 2024 12:17 | YP\AJ    | Ok,M     |
| 14  | 50 PPM TRPH STD | FF014787.D     | 25 Oct 2024 12:46 | YP\AJ    | Ok,M     |
| 15  | I.BLK           | FF014788.D     | 25 Oct 2024 13:56 | YP\AJ    | Ok,M     |
| 16  | 50 PPM TRPH STD | FF014789.D     | 25 Oct 2024 14:24 | YP\AJ    | Ok,M     |
| 17  | RT MARKER       | FF014790.D     | 25 Oct 2024 14:53 | YP\AJ    | Ok       |
| 18  | PB164426BL      | FF014791.D     | 25 Oct 2024 16:21 | YP\AJ    | Ok       |
| 19  | PB164426BS      | FF014792.D     | 25 Oct 2024 16:50 | YP\AJ    | Ok,M     |
| 20  | P4509-01        | FF014793.D     | 25 Oct 2024 17:19 | YP\AJ    | Dilution |
| 21  | P4509-01MS      | FF014794.D     | 25 Oct 2024 17:48 | YP\AJ    | Ok,M     |

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF102524**

| Review By                               | yogesh                                  | Review On         | 10/25/2024 11:01:26 AM        |
|-----------------------------------------|-----------------------------------------|-------------------|-------------------------------|
| Supervise By                            | Ankita                                  | Supervise On      | 10/28/2024 10:37:03 AM        |
| SubDirectory                            | FF102524                                | HP Acquire Method | HP Processing Method FF102124 |
| STD. NAME                               | STD REF.#                               |                   |                               |
| Tune/Reschk<br>Initial Calibration Stds | PP23611,PP23613,PP23614,PP23615,PP23616 |                   |                               |
| CCC                                     | PP23613                                 |                   |                               |
| Internal Standard/PEM                   |                                         |                   |                               |
| ICV/I.BLK                               | PP23612,PP23617                         |                   |                               |
| Surrogate Standard                      |                                         |                   |                               |
| MS/MSD Standard                         |                                         |                   |                               |
| LCS Standard                            |                                         |                   |                               |

|    |                 |            |                   |       |        |
|----|-----------------|------------|-------------------|-------|--------|
| 22 | P4509-01MSD     | FF014795.D | 25 Oct 2024 18:17 | YP\AJ | Ok,M   |
| 23 | P4509-01        | FF014796.D | 25 Oct 2024 18:46 | YP\AJ | Not Ok |
| 24 | P4509-01        | FF014797.D | 25 Oct 2024 19:15 | YP\AJ | Not Ok |
| 25 | I.BLK           | FF014798.D | 25 Oct 2024 19:43 | YP\AJ | Ok     |
| 26 | 50 PPM TRPH STD | FF014799.D | 25 Oct 2024 20:41 | YP\AJ | Ok,M   |

M : Manual Integration

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF102124**

|              |          |                   |                               |
|--------------|----------|-------------------|-------------------------------|
| Review By    | yogesh   | Review On         | 10/21/2024 1:40:56 PM         |
| Supervise By | Ankita   | Supervise On      | 10/22/2024 8:58:33 AM         |
| SubDirectory | FF102124 | HP Acquire Method | HP Processing Method FF102124 |

| STD. NAME                               | STD REF.#                               |
|-----------------------------------------|-----------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds | PP23611,PP23613,PP23614,PP23615,PP23616 |
| CCC                                     | PP23613                                 |
| Internal Standard/PEM                   |                                         |
| ICV/I.BLK                               | PP23612,PP23617                         |
| Surrogate Standard                      |                                         |
| MS/MSD Standard                         |                                         |
| LCS Standard                            |                                         |

| Sr# | SampleID     | ClientID | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|--------------|----------|----------------|-------------------|---------|----------|--------|
| 1   | MECL2        |          | FF014704.D     | 21 Oct 2024 14:21 |         | YP\AJ    | Ok     |
| 2   | I.BLK        |          | FF014705.D     | 21 Oct 2024 14:50 |         | YP\AJ    | Ok     |
| 3   | 100 TRPH STD |          | FF014706.D     | 21 Oct 2024 15:19 |         | YP\AJ    | Ok     |
| 4   | 50 TRPH STD  |          | FF014707.D     | 21 Oct 2024 15:48 |         | YP\AJ    | Ok,M   |
| 5   | 20 TRPH STD  |          | FF014708.D     | 21 Oct 2024 16:17 |         | YP\AJ    | Ok     |
| 6   | 10 TRPH STD  |          | FF014709.D     | 21 Oct 2024 16:46 |         | YP\AJ    | Ok     |
| 7   | 5 TRPH STD   |          | FF014710.D     | 21 Oct 2024 17:15 |         | YP\AJ    | Ok     |
| 8   | FF102124ICV  |          | FF014711.D     | 21 Oct 2024 17:44 |         | YP\AJ    | Ok     |

M : Manual Integration



Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF102424**

|                                         |                                         |                   |                               |
|-----------------------------------------|-----------------------------------------|-------------------|-------------------------------|
| Review By                               | yogesh                                  | Review On         | 10/24/2024 1:31:24 PM         |
| Supervise By                            | Ankita                                  | Supervise On      | 10/25/2024 11:44:57 AM        |
| SubDirectory                            | FF102424                                | HP Acquire Method | HP Processing Method FF102124 |
| <b>STD. NAME</b>                        | <b>STD REF.#</b>                        |                   |                               |
| Tune/Reschk<br>Initial Calibration Stds | PP23611,PP23613,PP23614,PP23615,PP23616 |                   |                               |
| CCC                                     | PP23613                                 |                   |                               |
| Internal Standard/PEM                   | PP23612,PP23617                         |                   |                               |
| ICV/I.BLK                               |                                         |                   |                               |
| Surrogate Standard                      |                                         |                   |                               |
| MS/MSD Standard                         |                                         |                   |                               |
| LCS Standard                            |                                         |                   |                               |

| Sr# | SampleID        | ClientID | Data File Name | Date-Time         | Comment                   | Operator | Status   |
|-----|-----------------|----------|----------------|-------------------|---------------------------|----------|----------|
| 1   | MECL2           |          | FF014755.D     | 24 Oct 2024 10:42 |                           | YPIAJ    | Ok       |
| 2   | I.BLK           |          | FF014756.D     | 24 Oct 2024 12:00 |                           | YPIAJ    | Ok       |
| 3   | 50 PPM TRPH STD |          | FF014757.D     | 24 Oct 2024 12:59 |                           | YPIAJ    | Ok       |
| 4   | RT MARKER       |          | FF014758.D     | 24 Oct 2024 13:32 |                           | YPIAJ    | Ok,M     |
| 5   | PB164381BL      |          | FF014759.D     | 24 Oct 2024 14:33 |                           | YPIAJ    | Ok       |
| 6   | PB164381BS      |          | FF014760.D     | 24 Oct 2024 15:02 |                           | YPIAJ    | Ok       |
| 7   | P4495-14        |          | FF014761.D     | 24 Oct 2024 15:31 | need 25x dilution         | YPIAJ    | Dilution |
| 8   | P4495-14        |          | FF014762.D     | 24 Oct 2024 16:06 |                           | YPIAJ    | Dilution |
| 9   | I.BLK           |          | FF014763.D     | 24 Oct 2024 16:35 |                           | YPIAJ    | Ok       |
| 10  | 50 PPM TRPH STD |          | FF014764.D     | 24 Oct 2024 17:33 |                           | YPIAJ    | Ok,M     |
| 11  | P4518-01        |          | FF014765.D     | 24 Oct 2024 19:29 | need 50x dilution         | YPIAJ    | Dilution |
| 12  | P4518-01MS      |          | FF014766.D     | 24 Oct 2024 19:58 |                           | YPIAJ    | Ok,M     |
| 13  | P4518-01MSD     |          | FF014767.D     | 24 Oct 2024 20:27 |                           | YPIAJ    | Ok,M     |
| 14  | P4518-05        |          | FF014768.D     | 24 Oct 2024 20:56 | need 50x dilution         | YPIAJ    | Dilution |
| 15  | P4518-04        |          | FF014769.D     | 24 Oct 2024 21:25 | need 100x dilution        | YPIAJ    | Dilution |
| 16  | P4518-03        |          | FF014770.D     | 24 Oct 2024 21:54 | need 20x dilution         | YPIAJ    | Dilution |
| 17  | P4518-02        |          | FF014771.D     | 24 Oct 2024 22:23 | need 20x dilution further | YPIAJ    | Dilution |
| 18  | I.BLK           |          | FF014772.D     | 24 Oct 2024 22:52 |                           | YPIAJ    | Ok       |

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF102424**

|              |          |                   |                               |
|--------------|----------|-------------------|-------------------------------|
| Review By    | yogesh   | Review On         | 10/24/2024 1:31:24 PM         |
| Supervise By | Ankita   | Supervise On      | 10/25/2024 11:44:57 AM        |
| SubDirectory | FF102424 | HP Acquire Method | HP Processing Method FF102124 |

| STD. NAME                               | STD REF.#                               |
|-----------------------------------------|-----------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds | PP23611,PP23613,PP23614,PP23615,PP23616 |
| CCC<br>Internal Standard/PEM            | PP23613                                 |
| ICV/I.BLK<br>Surrogate Standard         | PP23612,PP23617                         |
| MS/MSD Standard<br>LCS Standard         |                                         |

|    |                 |  |            |                   |  |       |      |
|----|-----------------|--|------------|-------------------|--|-------|------|
| 19 | 50 PPM TRPH STD |  | FF014773.D | 24 Oct 2024 23:50 |  | YP\AJ | Ok,M |
|----|-----------------|--|------------|-------------------|--|-------|------|

M : Manual Integration

Instrument ID: FID\_F

### Daily Analysis Runlog For Sequence/QC Batch ID # FF102524

|              |          |                   |                               |
|--------------|----------|-------------------|-------------------------------|
| Review By    | yogesh   | Review On         | 10/25/2024 11:01:26 AM        |
| Supervise By | Ankita   | Supervise On      | 10/28/2024 10:37:03 AM        |
| SubDirectory | FF102524 | HP Acquire Method | HP Processing Method FF102124 |

| STD. NAME                               | STD REF.#                               |
|-----------------------------------------|-----------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds | PP23611,PP23613,PP23614,PP23615,PP23616 |
| CCC                                     | PP23613                                 |
| Internal Standard/PEM                   |                                         |
| ICV/I.BLK                               | PP23612,PP23617                         |
| Surrogate Standard                      |                                         |
| MS/MSD Standard                         |                                         |
| LCS Standard                            |                                         |

| Sr# | SampleID        | ClientID | Data File Name | Date-Time         | Comment               | Operator | Status   |
|-----|-----------------|----------|----------------|-------------------|-----------------------|----------|----------|
| 1   | MECL2           |          | FF014774.D     | 25 Oct 2024 05:42 |                       | YP\AJ    | Ok       |
| 2   | I.BLK           |          | FF014775.D     | 25 Oct 2024 06:11 |                       | YP\AJ    | Ok       |
| 3   | 50 PPM TRPH STD |          | FF014776.D     | 25 Oct 2024 06:40 |                       | YP\AJ    | Ok       |
| 4   | RT MARKER       |          | FF014777.D     | 25 Oct 2024 07:08 |                       | YP\AJ    | Ok       |
| 5   | P4495-14        |          | FF014778.D     | 25 Oct 2024 08:27 |                       | YP\AJ    | Ok       |
| 6   | P4518-01        |          | FF014779.D     | 25 Oct 2024 08:55 |                       | YP\AJ    | Ok,M     |
| 7   | P4518-05        |          | FF014780.D     | 25 Oct 2024 09:24 | need further dilution | YP\AJ    | Dilution |
| 8   | P4518-04        |          | FF014781.D     | 25 Oct 2024 09:53 | need further dilution | YP\AJ    | Dilution |
| 9   | P4518-03        |          | FF014782.D     | 25 Oct 2024 10:22 |                       | YP\AJ    | Ok,M     |
| 10  | P4518-02        |          | FF014783.D     | 25 Oct 2024 10:51 |                       | YP\AJ    | Ok       |
| 11  | P4518-05        |          | FF014784.D     | 25 Oct 2024 11:20 |                       | YP\AJ    | Ok       |
| 12  | P4518-04        |          | FF014785.D     | 25 Oct 2024 11:49 |                       | YP\AJ    | Ok       |
| 13  | I.BLK           |          | FF014786.D     | 25 Oct 2024 12:17 |                       | YP\AJ    | Ok,M     |
| 14  | 50 PPM TRPH STD |          | FF014787.D     | 25 Oct 2024 12:46 |                       | YP\AJ    | Ok,M     |
| 15  | I.BLK           |          | FF014788.D     | 25 Oct 2024 13:56 |                       | YP\AJ    | Ok,M     |
| 16  | 50 PPM TRPH STD |          | FF014789.D     | 25 Oct 2024 14:24 |                       | YP\AJ    | Ok,M     |
| 17  | RT MARKER       |          | FF014790.D     | 25 Oct 2024 14:53 |                       | YP\AJ    | Ok       |
| 18  | PB164426BL      |          | FF014791.D     | 25 Oct 2024 16:21 |                       | YP\AJ    | Ok       |

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF102524**

| Review By                               | yogesh                                  | Review On         | 10/25/2024 11:01:26 AM |
|-----------------------------------------|-----------------------------------------|-------------------|------------------------|
| Supervise By                            | Ankita                                  | Supervise On      | 10/28/2024 10:37:03 AM |
| SubDirectory                            | FF102524                                | HP Acquire Method | HP Processing Method   |
|                                         |                                         |                   | FF102124               |
| STD. NAME                               | STD REF.#                               |                   |                        |
| Tune/Reschk<br>Initial Calibration Stds | PP23611,PP23613,PP23614,PP23615,PP23616 |                   |                        |
| CCC                                     | PP23613                                 |                   |                        |
| Internal Standard/PEM                   |                                         |                   |                        |
| ICV/I.BLK                               | PP23612,PP23617                         |                   |                        |
| Surrogate Standard                      |                                         |                   |                        |
| MS/MSD Standard                         |                                         |                   |                        |
| LCS Standard                            |                                         |                   |                        |

|    |                 |  |            |                   |                  |       |          |
|----|-----------------|--|------------|-------------------|------------------|-------|----------|
| 19 | PB164426BS      |  | FF014792.D | 25 Oct 2024 16:50 |                  | YP\AJ | Ok,M     |
| 20 | P4509-01        |  | FF014793.D | 25 Oct 2024 17:19 | need 5x dilution | YP\AJ | Dilution |
| 21 | P4509-01MS      |  | FF014794.D | 25 Oct 2024 17:48 |                  | YP\AJ | Ok,M     |
| 22 | P4509-01MSD     |  | FF014795.D | 25 Oct 2024 18:17 |                  | YP\AJ | Ok,M     |
| 23 | P4509-01        |  | FF014796.D | 25 Oct 2024 18:46 | not required     | YP\AJ | Not Ok   |
| 24 | P4509-01        |  | FF014797.D | 25 Oct 2024 19:15 | not required     | YP\AJ | Not Ok   |
| 25 | I.BLK           |  | FF014798.D | 25 Oct 2024 19:43 |                  | YP\AJ | Ok       |
| 26 | 50 PPM TRPH STD |  | FF014799.D | 25 Oct 2024 20:41 |                  | YP\AJ | Ok,M     |

M : Manual Integration

# PERCENT SOLID

Supervisor: Iwona  
Analyst: jignesh  
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:25  
In Date: 10/23/2024  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103  
Time OUT: 08:20  
Out Date: 10/24/2024  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID- OVEN

QC:LB133085

| Lab ID   | Client SampleID  | Dish # | Dish Wt (g) (A) | Sample Wt (g) | Dish + Sample Wt (g) (B) | Dish+Dry Sample Wt (g) (C) | % Solid | Comments   |
|----------|------------------|--------|-----------------|---------------|--------------------------|----------------------------|---------|------------|
| P4488-09 | HCC-1            | 1      | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oil sample |
| P4488-10 | HCC-2            | 2      | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oil sample |
| P4495-01 | PT-AN-SOIL       | 3      | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-02 | PT-CORR-SOIL     | 4      | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-03 | PT-CN-SOIL       | 5      | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-04 | PT-CN-SOIL       | 6      | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-05 | PT-FP-SOIL       | 7      | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-06 | PT-CR6-SOIL      | 8      | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-07 | PT-NUT-SOIL      | 9      | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-08 | PT-NUT-SOIL      | 10     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-09 | PT-OGP-SOIL      | 11     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-10 | PT-MET-SOIL      | 12     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-11 | PT-BNA-SOIL      | 13     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-12 | PT-TRIAZINE-SOIL | 14     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-13 | PT-PAH-SOIL      | 15     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-14 | PT-DIES-SOIL     | 16     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-15 | PT-GAS-SOIL      | 17     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-16 | PT-NJEPH-SOIL    | 18     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-17 | PT-HERB-SOIL     | 19     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-18 | PT-PCB-SOIL      | 20     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-19 | PT-PCBO-SOIL     | 21     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-20 | PT-PEST-SOIL     | 22     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-21 | PT-CHLR-SOIL     | 23     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-22 | PT-TXP-SOIL      | 24     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-23 | PT-VOA-SOIL      | 25     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4495-24 | PT-SOL-SOIL      | 26     | 0.92            | 8.80          | 9.72                     | 7.58                       | 75.7    |            |
| P4495-25 | PT-NO2-SOIL      | 27     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |            |
| P4508-01 | TP-3             | 28     | 1.14            | 8.38          | 9.52                     | 8.64                       | 89.5    |            |

# PERCENT SOLID

Supervisor: Iwona  
Analyst: jignesh  
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:25  
In Date: 10/23/2024  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103  
Time OUT: 08:20  
Out Date: 10/24/2024  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID- OVEN

QC:LB133085

| Lab ID   | Client SampleID | Dish # | Dish Wt (g) (A) | Sample Wt (g) | Dish + Sample Wt (g) (B) | Dish+Dry Sample Wt (g) (C) | % Solid | Comments |
|----------|-----------------|--------|-----------------|---------------|--------------------------|----------------------------|---------|----------|
| P4508-02 | TP-3-EPH        | 29     | 1.15            | 8.81          | 9.96                     | 9.22                       | 91.6    |          |
| P4508-03 | TP-3-VOC        | 30     | 1.15            | 8.66          | 9.81                     | 8.88                       | 89.3    |          |
| P4508-05 | BP-F23          | 31     | 1.15            | 8.82          | 9.97                     | 9.22                       | 91.5    |          |
| P4508-06 | BP-F23-EPH      | 32     | 1.14            | 8.83          | 9.97                     | 9.29                       | 92.3    |          |
| P4508-07 | BP-F23-VOC      | 33     | 1.15            | 8.40          | 9.55                     | 8.61                       | 88.8    |          |
| P4508-09 | BP-F22          | 34     | 1.18            | 8.78          | 9.96                     | 9.15                       | 90.8    |          |
| P4508-10 | BP-F22-EPH      | 35     | 1.15            | 8.70          | 9.85                     | 8.98                       | 90.0    |          |
| P4508-11 | BP-F22-VOC      | 36     | 1.16            | 8.60          | 9.76                     | 8.68                       | 87.4    |          |
| P4509-02 | AU-06-10232024  | 37     | 1.12            | 8.82          | 9.94                     | 9.44                       | 94.3    |          |
| P4510-01 | FDH119M-1-1     | 38     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-02 | FDH119M-1-2     | 39     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-03 | BC271327-1-1    | 40     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-04 | BC271327-1-2    | 41     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-05 | BC271327-2-1    | 42     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-06 | BC271327-2-2    | 43     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-07 | FDA886K-1-1     | 44     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-08 | FDA886K-1-2     | 45     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-09 | FDA886K-2-1     | 46     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-10 | FDA886K-2-2     | 47     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-11 | HID111K-1-1     | 48     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-12 | HID111K-1-2     | 49     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-13 | HID111K-2-1     | 50     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-14 | HID111K-2-2     | 51     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-15 | HID111K-3-1     | 52     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-16 | HID111K-3-2     | 53     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-17 | FDA563W-1-1     | 54     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-18 | FDA563W-1-2     | 55     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |
| P4510-19 | FDA563W-2-1     | 56     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   | oilc     |

# PERCENT SOLID

Supervisor: Iwona  
Analyst: jignesh  
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:25  
In Date: 10/23/2024  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103  
Time OUT: 08:20  
Out Date: 10/24/2024  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID- OVEN

QC:LB133085

| Lab ID   | Client SampleID  | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments        |
|----------|------------------|--------|----------------|--------------|-------------------------|---------------------------|---------|-----------------|
| P4510-20 | FDA563W-2-2      | 57     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4510-21 | JEC128C-1-1      | 58     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4510-22 | JEC128C-1-2      | 59     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4510-23 | JEC128C-2-1      | 60     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4510-24 | JEC128C-2-2      | 61     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4511-02 | 267              | 62     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | debris          |
| P4512-03 | VNJ-212          | 63     | 1.15           | 8.81         | 9.96                    | 9.66                      | 96.6    |                 |
| P4512-04 | VNJ-212-E2       | 64     | 1.16           | 8.48         | 9.64                    | 9.39                      | 97.1    |                 |
| P4513-01 | D3683            | 65     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oil sample      |
| P4513-02 | D3694            | 66     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | debris          |
| P4513-03 | D3695            | 67     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | debris          |
| P4514-01 | BC274653-1-1     | 68     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4514-02 | BC274653-1-2     | 69     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4514-03 | BC274767-1-1     | 70     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4514-04 | BC274767-1-2     | 71     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4514-05 | BC274767-2-1     | 72     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4514-06 | BC274767-2-2     | 73     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oilc            |
| P4515-01 | CHVB0783         | 74     | 1.15           | 8.83         | 9.98                    | 5.28                      | 46.8    |                 |
| P4516-01 | 72-11986         | 75     | 1.12           | 8.67         | 9.79                    | 8.93                      | 90.1    |                 |
| P4517-01 | NASSAU-ST-CO     | 76     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | CONCRETE sample |
| P4517-03 | S.JEFFERSON-CO-1 | 77     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | CONCRETE sample |
| P4517-05 | S.JEFFERSON-CO-2 | 78     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | CONCRETE sample |
| P4517-07 | FOREST-ST-CO     | 79     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | CONCRETE sample |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

133085

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

| Sample   | Customer Sample  | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|------------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| P4488-09 | HCC-1            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/22/2024   | Chemtech -SO |
| P4488-10 | HCC-2            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/22/2024   | Chemtech -SO |
| P4495-01 | PT-AN-SOIL       | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-02 | PT-CORR-SOIL     | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-03 | PT-CN-SOIL       | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-04 | PT-CN-SOIL       | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-05 | PT-FP-SOIL       | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-06 | PT-CR6-SOIL      | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-07 | PT-NUT-SOIL      | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-08 | PT-NUT-SOIL      | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-09 | PT-OGR-SOIL      | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-10 | PT-MET-SOIL      | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-11 | PT-BNA-SOIL      | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-12 | PT-TRIAZINE-SOIL | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-13 | PT-PAH-SOIL      | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-14 | PT-DIES-SOIL     | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-15 | PT-GAS-SOIL      | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-16 | PT-NJEPH-SOIL    | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-17 | PT-HERB-SOIL     | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-18 | PT-PCB-SOIL      | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-19 | PT-PCBO-SOIL     | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |

Date/Time 10/23/24 16:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

P4495-Diesel Range Organics

Date/Time 10/23/24 17:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]



# WORKLIST(Hardcopy Internal Chain)

W3 133085

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

| Sample   | Customer Sample | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|-----------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| P4495-20 | PT-PEST-SOIL    | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-21 | PT-CHLR-SOIL    | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-22 | PT-TXP-SOIL     | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-23 | PT-VOA-SOIL     | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-24 | PT-SOL-SOIL     | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4495-25 | PT-NO2-SOIL     | Solid  | Percent Solids | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | Chemtech -SO |
| P4508-01 | TP-3            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K63                         | 10/23/2024   | Chemtech -SO |
| P4508-02 | TP-3-EPH        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K63                         | 10/23/2024   | Chemtech -SO |
| P4508-03 | TP-3-VOC        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K63                         | 10/23/2024   | Chemtech -SO |
| P4508-05 | BP-F23          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K63                         | 10/23/2024   | Chemtech -SO |
| P4508-06 | BP-F23-EPH      | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K63                         | 10/23/2024   | Chemtech -SO |
| P4508-07 | BP-F23-VOC      | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K63                         | 10/23/2024   | Chemtech -SO |
| P4508-09 | BP-F22          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K63                         | 10/23/2024   | Chemtech -SO |
| P4508-10 | BP-F22-EPH      | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K63                         | 10/23/2024   | Chemtech -SO |
| P4508-11 | BP-F22-VOC      | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K63                         | 10/23/2024   | Chemtech -SO |
| P4509-02 | AU-06-10232024  | Solid  | Percent Solids | Cool 4 deg C | PSEG05   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-01 | FDH119M-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-02 | FDH119M-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-03 | BC271327-1-1    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-04 | BC271327-1-2    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-05 | BC271327-2-1    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |

Date/Time 10/23/24 16:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

P4495-Diesel Range Organics

Date/Time 10/23/24 17:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

# WORKLIST(Hardcopy Internal Chain)

133085

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

| Sample   | Customer Sample | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|-----------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| P4510-06 | BC271327-2-2    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-07 | FDA886K-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-08 | FDA886K-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-09 | FDA886K-2-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-10 | FDA886K-2-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-11 | HID111K-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-12 | HID111K-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-13 | HID111K-2-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-14 | HID111K-2-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-15 | HID111K-3-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-16 | HID111K-3-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-17 | FDA563W-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-18 | FDA563W-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-19 | FDA563W-2-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-20 | FDA563W-2-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-21 | JEC128C-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-22 | JEC128C-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-23 | JEC128C-2-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4510-24 | JEC128C-2-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4511-02 | 267             | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4512-03 | VNJ-212         | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

P4495-Diesel Range Organics

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

# WORKLIST(Hardcopy Internal Chain)

WB 133085

WorkList Name : %1-102324

WorkList ID : 184679

Department : Wet-Chemistry

Date : 10-23-2024 08:16:39

| Sample   | Customer Sample  | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|------------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| P4512-04 | VNJ-212-E2       | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4513-01 | D3683            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4513-02 | D3694            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4513-03 | D3695            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4514-01 | BC274653-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K31                         | 10/23/2024   | Chemtech -SO |
| P4514-02 | BC274653-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K31                         | 10/23/2024   | Chemtech -SO |
| P4514-03 | BC274767-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K31                         | 10/23/2024   | Chemtech -SO |
| P4514-04 | BC274767-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K31                         | 10/23/2024   | Chemtech -SO |
| P4514-05 | BC274767-2-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K31                         | 10/23/2024   | Chemtech -SO |
| P4514-06 | BC274767-2-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K31                         | 10/23/2024   | Chemtech -SO |
| P4515-01 | CHVB0783         | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K62                         | 10/23/2024   | Chemtech -SO |
| P4516-01 | 72-11986         | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K62                         | 10/23/2024   | Chemtech -SO |
| P4517-01 | NASSAU-ST-CO     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4517-03 | S.JEFFERSON-CO-1 | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4517-05 | S.JEFFERSON-CO-2 | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |
| P4517-07 | FOREST-ST-CO     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | K61                         | 10/23/2024   | Chemtech -SO |

Date/Time

10/23/24 16:00

Raw Sample Received by:

W. C. C. J. C. S.

Raw Sample Relinquished by:

P4495-Diesel Range Organics

Date/Time

10/23/24 17:30

Raw Sample Received by:

C. S. J. C. S.

Raw Sample Relinquished by:

W. C. C. J. C. S.

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix: Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date: 10/24/2024

Extraction Start Time: 11:10

Extraction End Date: 10/24/2024

Extraction End Time: 14:10

Concentration By: EH

Supervisor By: rajesh

Extraction Method: ☐ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☒ Soxhlet

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Surrogate     | 1.0ML    | 20 PPM              | PP23518             |
| Spike Sol 1   | 1.0ML    | 20 PPM              | PP23454             |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |

| Chemical Used      | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| MeCl2/Acetone/1:1  | N/A            | EP2538     |
| Baked Na2SO4       | N/A            | EP2551     |
| Sand               | N/A            | E2865      |
| Methylene Chloride | N/A            | E3822      |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 10/24/24    | RP (Ext Lab)                            | Y-P-Pentap           |
| 14:15       | Preparation Group                       | Analysis Group       |



Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/24/2024

| Sample ID    | Client Sample ID | Test                  | g / mL | PH  | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep Pos |
|--------------|------------------|-----------------------|--------|-----|----------------|------------|--------------------|-------|----------|----------|
|              |                  |                       |        |     | AddedBy        | VerifiedBy |                    |       |          |          |
| PB164381BL   | PB164381BL       | Diesel Range Organics | 30.03  | N/A | ritesh         | Evelyn     | 1                  |       |          | U1-1     |
| PB164381BS   | PB164381BS       | Diesel Range Organics | 30.01  | N/A | ritesh         | Evelyn     | 1                  |       |          | 2        |
| P4495-14     | PT-DIES-SOIL     | Diesel Range Organics | 20.12  | N/A | ritesh         | Evelyn     | 1                  |       |          | 3        |
| P4518-01     | EX-5-TPH-1       | Diesel Range Organics | 30.09  | N/A | ritesh         | Evelyn     | 1                  | E     |          | 4        |
| P4518-01MS   | EX-5-TPH-1MS     | Diesel Range Organics | 30.05  | N/A | ritesh         | Evelyn     | 1                  | E     |          | 5        |
| P4518-01MS D | EX-5-TPH-1MSD    | Diesel Range Organics | 30.03  | N/A | ritesh         | Evelyn     | 1                  | E     |          | 6        |
| P4518-02     | EX-5-TPH-2       | Diesel Range Organics | 30.06  | N/A | ritesh         | Evelyn     | 1                  | E     |          | U5-1     |
| P4518-03     | EX-5-TPH-3       | Diesel Range Organics | 30.10  | N/A | ritesh         | Evelyn     | 1                  | E     |          | 2        |
| P4518-04     | EX-5-TPH-4       | Diesel Range Organics | 30.08  | N/A | ritesh         | Evelyn     | 1                  | E     |          | 3        |
| P4518-05     | EX-5-TPH-5       | Diesel Range Organics | 30.05  | N/A | ritesh         | Evelyn     | 1                  | E     |          | 4        |

\* Extracts relinquished on the same date as received.

P4495-Diesel Range Organics

10/24/24

201 of 257

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4518

WorkList ID : 184740

Department : Extraction

Date : 10-24-2024 11:04:50

| Sample   | Customer Sample | Matrix | Test                  | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|----------|-----------------|--------|-----------------------|--------------|----------|-----------------------------|--------------|--------|
| P4495-14 | PT-DIES-SOIL    | Solid  | Diesel Range Organics | Cool 4 deg C | CHEM02   | QA Of                       | 10/21/2024   | 8015D  |
| P4518-01 | EX-5-TPH-1      | Solid  | Diesel Range Organics | Cool 4 deg C | ENTA05   | K61                         | 10/23/2024   | 8015D  |
| P4518-02 | EX-5-TPH-2      | Solid  | Diesel Range Organics | Cool 4 deg C | ENTA05   | K61                         | 10/23/2024   | 8015D  |
| P4518-03 | EX-5-TPH-3      | Solid  | Diesel Range Organics | Cool 4 deg C | ENTA05   | K61                         | 10/23/2024   | 8015D  |
| P4518-04 | EX-5-TPH-4      | Solid  | Diesel Range Organics | Cool 4 deg C | ENTA05   | K61                         | 10/23/2024   | 8015D  |
| P4518-05 | EX-5-TPH-5      | Solid  | Diesel Range Organics | Cool 4 deg C | ENTA05   | K61                         | 10/23/2024   | 8015D  |

Date/Time 10/24/24 11:05  
 Raw Sample Received by: RJ (Get Lab)  
 Raw Sample Relinquished by: STCSM

Date/Time 10/24/24 11:30  
 Raw Sample Received by: STCSM  
 Raw Sample Relinquished by: RJ (Get Lab)  
 202 of 257

## Prep Standard - Chemical Standard Summary

**Order ID :** P4495

**Test :** Diesel Range Organics

**Prepbatch ID :** PB164381,

**Sequence ID/Qc Batch ID:** FF102524,FF102424,

**Standard ID :**

EP2538,EP2551,PP23454,PP23518,PP23611,PP23612,PP23613,PP23614,PP23615,PP23616,PP23617,

**Chemical ID :**

E2865,E3551,E3759,E3768,E3787,E3793,E3794,E3822,P 11950,P11960,P13103,P13107,P13206,P13207,P13208,P13209,P13210,P13211,P13217,P13218,

## 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>           |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|--------------------------------|
| 3868             | METHELENE CHLORIDE+ACETONE | <a href="#">EP2538</a> | 09/17/2024       | 03/11/2025             | Rajesh Parikh      | None           | None             | RUPESHKUMAR SHAH<br>09/17/2024 |

**FROM** 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 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="#">EP2551</a> | 10/18/2024       | 01/03/2025             | Rajesh Parikh      | Extraction_SC ALE_2<br>(EX-SC-2) | None             | RUPESHKUMAR SHAH<br>10/18/2024 |

**FROM** 4000.00000gram of E3551 = 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> |
|------------------|------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3609             | 20 PPM DRO SPIKE SOLUTION (RESTEK) | <a href="#">PP23454</a> | 06/10/2024       | 12/08/2024             | Yogesh Patel       | None           | None             | Ankita Jodhani       |
|                  |                                    |                         |                  |                        |                    |                |                  | 06/12/2024           |

**FROM** 1.00000ml of P11950 + 1.00000ml of P11960 + 48.00000ml of E3759 = Final Quantity: 50.000 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> |
|------------------|-------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 147              | 20 PPM DRO Surrogate Spike Solution | <a href="#">PP23518</a> | 07/15/2024       | 01/08/2025             | Yogesh Patel       | None           | None             | Ankita Jodhani       |
|                  |                                     |                         |                  |                        |                    |                |                  | 07/16/2024           |

**FROM** 1.00000ml of P13206 + 1.00000ml of P13207 + 1.00000ml of P13208 + 1.00000ml of P13209 + 196.00000ml of E3768 = Final Quantity: 200.000 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> |
|------------------|--------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 433              | 100/100 PPM DRO (Restek) | <a href="#">PP23611</a> | 08/14/2024       | 02/13/2025             | Yogesh Patel       | None           | None             | Ankita Jodhani       |
|                  |                          |                         |                  |                        |                    |                |                  | 08/19/2024           |

**FROM** 1.00000ml of P13103 + 1.00000ml of P13107 + 1.00000ml of P13210 + 7.00000ml of E3787 = Final Quantity: 10.000 ml

| <u>Recipe ID</u> | <u>NAME</u>               | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3796             | 100/100 PPM DRO STD (CPI) | <a href="#">PP23612</a> | 08/14/2024       | 02/13/2025             | Yogesh Patel       | None           | None             | Ankita Jodhani       |
|                  |                           |                         |                  |                        |                    |                |                  | 08/19/2024           |

**FROM** 1.00000ml of P13211 + 1.00000ml of P13217 + 1.00000ml of P13218 + 7.00000ml of E3787 = Final Quantity: 10.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                 | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 435              | 50 PPM ICC DRO STD (Restek) | <a href="#">PP23613</a> | 08/15/2024       | 02/13/2025             | Yogesh Patel       | None           | None             | Ankita Jodhani       |
| 08/19/2024       |                             |                         |                  |                        |                    |                |                  |                      |

**FROM** 0.50000ml of E3787 + 0.50000ml of PP23611 = 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> |
|------------------|-----------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 437              | 20 PPM ICC DRO STD (Restek) | <a href="#">PP23614</a> | 08/15/2024       | 02/13/2025             | Yogesh Patel       | None           | None             | Ankita Jodhani       |
| 08/19/2024       |                             |                         |                  |                        |                    |                |                  |                      |

**FROM** 0.80000ml of E3787 + 0.20000ml of PP23611 = 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> |
|------------------|-----------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 438              | 10 PPM ICC DRO STD (Restek) | <a href="#">PP23615</a> | 08/15/2024       | 02/13/2025             | Yogesh Patel       | None           | None             | Ankita Jodhani       |
|                  |                             |                         |                  |                        |                    |                |                  | 08/19/2024           |

**FROM** 0.90000ml of E3787 + 0.10000ml of PP23611 = 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> |
|------------------|----------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 439              | 5 PPM ICC DRO STD (Restek) | <a href="#">PP23616</a> | 08/15/2024       | 02/13/2025             | Yogesh Patel       | None           | None             | Ankita Jodhani       |
|                  |                            |                         |                  |                        |                    |                |                  | 08/19/2024           |

**FROM** 0.90000ml of E3787 + 0.10000ml of PP23613 = 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> |
|----------------------------------------------------------------------------------|--------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3797                                                                             | 50 PPM DRO ICV STD (CPI) | <a href="#">PP23617</a> | 08/15/2024       | 02/13/2025             | Yogesh Patel       | None           | None             | Ankita Jodhani       |
| <b>FROM</b> 0.50000ml of E3787 + 0.50000ml of PP23612 = Final Quantity: 1.000 ml |                          |                         |                  |                        |                    |                |                  |                      |

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## CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                      | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-3382-05 / Sand, Purified (cs/4x2.5kg) | 0000243821 | 12/31/2024      | 04/30/2020 / RAJESH     | 04/28/2020 / RAJESH         | E2865          |

| Supplier                    | ItemCode / ItemName                                    | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 01/03/2025      | 01/03/2024 / Rajesh     | 07/20/2023 / Rajesh         | E3551          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24D1962005 | 12/08/2024      | 06/08/2024 / Rajesh     | 05/31/2024 / Rajesh         | E3759          |

| 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) | 24E2462004 | 01/08/2025      | 07/08/2024 / Rajesh     | 06/21/2024 / Rajesh         | E3768          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24G0862022 | 02/13/2025      | 08/13/2024 / Rajesh     | 08/07/2024 / Rajesh         | E3787          |

| Supplier         | ItemCode / ItemName               | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-----------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | 9005-05 / Acetone Ultra (cs/4x4L) | 24E0761004 | 03/11/2025      | 09/12/2024 / Rajesh     | 09/11/2024 / Rajesh         | E3793          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24G2362009 | 03/17/2025      | 09/17/2024 / Rajesh     | 09/03/2024 / Rajesh         | E3794          |

| 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) | 24I2662006 | 04/23/2025      | 10/24/2024 / Rajesh     | 10/24/2024 / Rajesh         | E3822          |

| Supplier | ItemCode / ItemName           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31266 / Florida TRPH Standard | A0186840 | 12/10/2024      | 06/10/2024 / yogesh     | 07/11/2022 / Yogesh         | P11950         |

| Supplier | ItemCode / ItemName           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31266 / Florida TRPH Standard | A0186840 | 12/10/2024      | 06/10/2024 / yogesh     | 07/11/2022 / Yogesh         | P11960         |

| Supplier | ItemCode / ItemName           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31266 / Florida TRPH Standard | A0204859 | 02/14/2025      | 08/14/2024 / yogesh     | 01/12/2024 / Yogesh         | P13103         |

| Supplier | ItemCode / ItemName           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31266 / Florida TRPH Standard | A0204859 | 02/14/2025      | 08/14/2024 / yogesh     | 01/12/2024 / Yogesh         | P13107         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                 | ItemCode / ItemName                   | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 72072 / n-Tetracosane-d50, 1000 ug/ml | 101122 | 01/15/2025      | 07/15/2024 / yogesh     | 01/17/2024 / Ankita         | P13206         |

| Supplier                 | ItemCode / ItemName                   | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 72072 / n-Tetracosane-d50, 1000 ug/ml | 101122 | 01/15/2025      | 07/15/2024 / yogesh     | 01/17/2024 / Ankita         | P13207         |

| Supplier                 | ItemCode / ItemName                   | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 72072 / n-Tetracosane-d50, 1000 ug/ml | 101122 | 01/15/2025      | 07/15/2024 / yogesh     | 01/17/2024 / Ankita         | P13208         |

| Supplier                 | ItemCode / ItemName                   | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 72072 / n-Tetracosane-d50, 1000 ug/ml | 101122 | 01/15/2025      | 07/15/2024 / yogesh     | 01/17/2024 / Ankita         | P13209         |

| Supplier                 | ItemCode / ItemName                   | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 72072 / n-Tetracosane-d50, 1000 ug/ml | 101122 | 02/14/2025      | 08/14/2024 / yogesh     | 01/17/2024 / Ankita         | P13210         |

| Supplier                 | ItemCode / ItemName                   | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 72072 / n-Tetracosane-d50, 1000 ug/ml | 101122 | 02/14/2025      | 08/14/2024 / yogesh     | 01/17/2024 / Ankita         | P13211         |



## CHEMICAL RECEIPT LOG BOOK

| Supplier          | ItemCode / ItemName                                     | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|---------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110400-05-01 / TRPH Standard (C8-C40), 500 mg/L, 1 ml | 514983 | 02/14/2025      | 08/14/2024 / yogesh     | 01/31/2024 / Ankita         | P13217         |

| Supplier          | ItemCode / ItemName                                     | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|---------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110400-05-01 / TRPH Standard (C8-C40), 500 mg/L, 1 ml | 514983 | 02/14/2025      | 08/14/2024 / yogesh     | 01/31/2024 / Ankita         | P13218         |

Sand  
Purified  
Washed and Ignited



Material No.: 3382-05  
Batch No.: 0000243821  
Manufactured Date: 2018/04/09  
Retest Date: 2025/04/07  
Revision No: 1

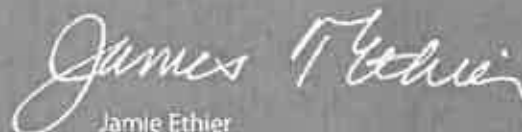
## Certificate of Analysis

| Test                      | Specification | Result |
|---------------------------|---------------|--------|
| Substances Soluble in HCl | $\leq 0.16\%$ | 0.01   |

For Laboratory, Research or Manufacturing Use  
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US  
Packaging Site: Paris Mfg Ctr & DC

E 2865

  
Jamie Ethier  
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC  
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MEXICO  
CP 64070  
TEL +52 81 13 52 57 57  
www.pqm.com.mx

## CERTIFICATE OF ANALYSIS

|                        |                                   |               |                                 |
|------------------------|-----------------------------------|---------------|---------------------------------|
| PRODUCT :              | SODIUM SULFATE CRYSTALS ANHYDROUS |               |                                 |
| QUALITY :              | ACS (CODE RMB3375)                | FORMULA :     | Na <sub>2</sub> SO <sub>4</sub> |
| SPECIFICATION NUMBER : | 6399                              | RELEASE DATE: | ABR/21/2023                     |
| LOT NUMBER :           | 313201                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | Min. 99.0%     | 99.7 %      |
| pH of a 5% solution at 25°C              | 5.2 - 9.2      | 6.1         |
| Insoluble matter                         | Max. 0.01%     | 0.005 %     |
| Loss on ignition                         | Max. 0.5%      | 0.1 %       |
| Chloride (Cl)                            | Max. 0.001%    | <0.001 %    |
| Nitrogen compounds (as N)                | Max. 5 ppm     | <5 ppm      |
| Phosphate (PO <sub>4</sub> )             | Max. 0.001%    | <0.001 %    |
| Heavy metals (as Pb)                     | Max. 5 ppm     | <5 ppm      |
| Iron (Fe)                                | Max. 0.001%    | <0.001 %    |
| Calcium (Ca)                             | Max. 0.01%     | 0.002 %     |
| Magnesium (Mg)                           | Max. 0.005%    | 0.001 %     |
| Potassium (K)                            | Max. 0.008%    | 0.003 %     |
| Extraction-concentration suitability     | Passes test    | Passes test |
| Appearance                               | Passes test    | Passes test |
| Identification                           | Passes test    | Passes test |
| Solubility and foreign matter            | Passes test    | Passes test |
| Retained on US Standard No. 10 sieve     | Max. 1%        | 0.1 %       |
| Retained on US Standard No. 60 sieve     | Min. 94%       | 97.3 %      |
| Through US Standard No. 60 sieve         | Max. 5%        | 2.5 %       |
| Through US Standard No. 100 sieve        | Max. 10%       | 0.1 %       |
| COMMENTS                                 |                |             |
| QC: PhC Irma Belmares                    |                |             |

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24D1962005  
Manufactured Date: 2024-03-16  
Expiration Date: 2025-06-15  
Revision No.: 0

Certificate of Analysis

| Test                                                                                             | Specification | Result   |
|--------------------------------------------------------------------------------------------------|---------------|----------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                             | ≤ 5           | < 1      |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                             | ≤ 10          | 8        |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | ≥ 99.8 %      | 99.9 %   |
| Color (APHA)                                                                                     | ≤ 10          | 5        |
| Residue after Evaporation                                                                        | ≤ 1.0 ppm     | 0.1 ppm  |
| Titration Acid (μeq/g)                                                                           | ≤ 0.3         | < 0.1    |
| Chloride (Cl)                                                                                    | ≤ 10 ppm      | < 5 ppm  |
| Water (by KF, coulometric)                                                                       | ≤ 0.02 %      | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD  
  
Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC  
Manufacturer source batch: MG24C16563

E 3759

*J. Croak*  
Jamie Croak  
Director Quality Operations, Bioscience Production

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24E2462004  
Manufactured Date: 2024-04-10  
Expiration Date: 2025-07-10  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification          | Result   |
|--------------------------------------------------------------------------------------------|------------------------|----------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$               | 3        |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                       | $\leq 10$              | 3        |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 100.0 %  |
| Color (APHA)                                                                               | $\leq 10$              | 5        |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.1 ppm  |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | < 0.1    |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | 5 ppm    |
| Water (by KF, coulometric)                                                                 | $\leq 0.02 \%$         | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC  
Manufacturer source batch: MG24D10725

E 3768

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

Page 1 of 1

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24G0862022  
Manufactured Date: 2024-06-05  
Expiration Date: 2025-09-04  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                             | Specification  | Result   |
|--------------------------------------------------------------------------------------------------|----------------|----------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                             | $\leq 5$       | 3        |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                             | $\leq 10$      | 4        |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$ | 100.0 %  |
| Color (APHA)                                                                                     | $\leq 10$      | 5        |
| Residue after Evaporation                                                                        | $\leq 1.0$ ppm | 0.3 ppm  |
| Titration Acid ( $\mu$ eq/g)                                                                     | $\leq 0.3$     | < 0.1    |
| Chloride (Cl)                                                                                    | $\leq 10$ ppm  | < 5 ppm  |
| Water (by KF, coulometric)                                                                       | $\leq 0.02 \%$ | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC  
Manufacturer source batch: MG24F05012

E 3787

Jamie Croak  
Director Quality Operations, Bioscience Production

Acetone  
CMOS

avantor™



Material No.: 9005-05  
Batch No.: 24E0761004  
Manufactured Date: 2024-05-02  
Retest Date: 2029-05-01  
Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | ≥ 99.5 %      | 99.8 %      |
| Color (APHA)                                                            | ≤ 10          | < 5         |
| Residue after Evaporation                                               | ≤ 5 ppm       | < 1 ppm     |
| Titration Acid (μeq/g)                                                  | ≤ 0.3         | 0.1         |
| Titration Base (μeq/g)                                                  | ≤ 0.5         | 0.1         |
| Water (H <sub>2</sub> O)                                                | ≤ 0.5 %       | 0.1 %       |
| Solubility in H <sub>2</sub> O                                          | Passes Test   | Passes Test |
| Chloride (Cl)                                                           | ≤ 0.2 ppm     | < 0.2 ppm   |
| Phosphate (PO <sub>4</sub> )                                            | ≤ 0.05 ppm    | < 0.05 ppm  |
| Trace Impurities – Aluminum (Al)                                        | ≤ 50.0 ppb    | < 5.0 ppb   |
| Arsenic and Antimony (as As)                                            | ≤ 5.0 ppb     | < 5.0 ppb   |
| Trace Impurities – Barium (Ba)                                          | ≤ 20.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Beryllium (Be)                                       | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Bismuth (Bi)                                         | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Boron (B)                                            | ≤ 10.0 ppb    | < 5.0 ppb   |
| Trace Impurities – Cadmium (Cd)                                         | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Calcium (Ca)                                         | ≤ 25.0 ppb    | 3.6 ppb     |
| Trace Impurities – Chromium (Cr)                                        | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Cobalt (Co)                                          | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Copper (Cu)                                          | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Gallium (Ga)                                         | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Germanium (Ge)                                       | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Gold (Au)                                            | ≤ 20 ppb      | < 5 ppb     |
| Trace Impurities – Iron (Fe)                                            | ≤ 20.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Lead (Pb)                                            | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Lithium (Li)                                         | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Magnesium (Mg)                                       | ≤ 20 ppb      | < 1 ppb     |
| Trace Impurities – Manganese (Mn)                                       | ≤ 10.0 ppb    | < 1.0 ppb   |

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

| Test                                              | Specification | Result     |
|---------------------------------------------------|---------------|------------|
| Trace Impurities – Molybdenum (Mo)                | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Nickel (Ni)                    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Niobium (Nb)                   | ≤ 50.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Potassium (K)                  | ≤ 10.0 ppb    | < 10.0 ppb |
| Trace Impurities – Silicon (Si)                   | ≤ 50 ppb      | < 10 ppb   |
| Trace Impurities – Silver (Ag)                    | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Sodium (Na)                    | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Strontium (Sr)                 | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Tantalum (Ta)                  | ≤ 50.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Thallium (Tl)                  | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Tin (Sn)                       | ≤ 20.0 ppb    | < 10.0 ppb |
| Trace Impurities – Titanium (Ti)                  | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Vanadium (V)                   | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Zinc (Zn)                      | ≤ 20.0 ppb    | 7.9 ppb    |
| Trace Impurities – Zirconium (Zr)                 | ≤ 10.0 ppb    | < 1.0 ppb  |
| Particle Count – 0.5 µm and greater (Rion KS42AF) | ≤ 100 par/ml  | 8 par/ml   |
| Particle Count – 1.0 µm and greater (Rion KS42AF) | ≤ 8 par/ml    | 2 par/ml   |

>>> Continued on page 3 >>>





| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

Country of Origin: USA  
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales

Michelle Bales  
Sr. Manager, Quality Assurance

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 24I2662006

Manufactured Date: 2024-08-29

Expiration Date: 2025-11-28

Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification          | Result            |
|--------------------------------------------------------------------------------------------|------------------------|-------------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$               | 2                 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$              | 3                 |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 99.9 %            |
| Color (APHA)                                                                               | $\leq 10$              | 5                 |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.2 ppm           |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | $< 0.1$           |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | $< 5 \text{ ppm}$ |
| 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 3822

Jamie Croak  
Director Quality Operations, Bioscience Production



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.: 31266 Lot No.: A0186840  
Description: Florida TRPH Standard  
Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul  
Container Size: 2 mL Pkg Amt: > 1 mL  
Expiration Date: July 31, 2029 Storage: 25°C nominal  
Handling: Sonicate prior to use. Ship: Ambient

P11948  
L  
P11962 } 7.0  
07/11

### CERTIFIED VALUES

| Elution Order | Compound                                                           | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                       |
|---------------|--------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------|
| 1             | n-Octane (C8)<br>CAS # 111-65-9 (Lot SHBN3807)<br>Purity 99%       | 505.0 µg/mL                 | +/- 2.9995 µg/mL Gravimetric<br>+/- 12.5465 µg/mL Unstressed<br>+/- 15.0390 µg/mL Stressed |
| 2             | n-Decane (C10)<br>CAS # 124-18-5 (Lot SHBN8619)<br>Purity 99%      | 503.0 µg/mL                 | +/- 2.9877 µg/mL Gravimetric<br>+/- 12.4968 µg/mL Unstressed<br>+/- 14.9795 µg/mL Stressed |
| 3             | n-Dodecane (C12)<br>CAS # 112-40-3 (Lot SHBN7174)<br>Purity 99%    | 503.5 µg/mL                 | +/- 2.9906 µg/mL Gravimetric<br>+/- 12.5092 µg/mL Unstressed<br>+/- 14.9944 µg/mL Stressed |
| 4             | n-Tetradecane (C14)<br>CAS # 629-59-4 (Lot STBK2282)<br>Purity 99% | 505.0 µg/mL                 | +/- 2.9995 µg/mL Gravimetric<br>+/- 12.5465 µg/mL Unstressed<br>+/- 15.0390 µg/mL Stressed |
| 5             | n-Hexadecane (C16)<br>CAS # 544-76-3 (Lot SHBM4146)<br>Purity 98%  | 504.7 µg/mL                 | +/- 2.9978 µg/mL Gravimetric<br>+/- 12.5390 µg/mL Unstressed<br>+/- 15.0301 µg/mL Stressed |
| 6             | n-Octadecane (C18)<br>CAS # 593-45-3 (Lot VZKOJ)<br>Purity 97%     | 504.4 µg/mL                 | +/- 2.9960 µg/mL Gravimetric<br>+/- 12.5316 µg/mL Unstressed<br>+/- 15.0212 µg/mL Stressed |
| 7             | n-Eicosane (C20)<br>CAS # 112-95-8 (Lot MKCF7888)<br>Purity 99%    | 503.5 µg/mL                 | +/- 2.9906 µg/mL Gravimetric<br>+/- 12.5092 µg/mL Unstressed<br>+/- 14.9944 µg/mL Stressed |

|                                                                      |                                                                          |                  |             |                                          |                         |                                       |
|----------------------------------------------------------------------|--------------------------------------------------------------------------|------------------|-------------|------------------------------------------|-------------------------|---------------------------------------|
| 8                                                                    | n-Docosane (C22)<br><b>CAS #</b> 629-97-0<br><b>Purity</b> 99%           | (Lot MKCL8918)   | 504.5 µg/mL | +/- 2.9966<br>+/- 12.5340<br>+/- 15.0241 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 9                                                                    | n-Tetracosane (C24)<br><b>CAS #</b> 646-31-1<br><b>Purity</b> 99%        | (Lot MKCN2863)   | 503.5 µg/mL | +/- 2.9906<br>+/- 12.5092<br>+/- 14.9944 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 10                                                                   | n-Hexacosane (C26)<br><b>CAS #</b> 630-01-3<br><b>Purity</b> 99%         | (Lot MKCD4540)   | 504.0 µg/mL | +/- 2.9936<br>+/- 12.5216<br>+/- 15.0093 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 11                                                                   | n-Octacosane (C28)<br><b>CAS #</b> 630-02-4<br><b>Purity</b> 99%         | (Lot BCCG0084)   | 504.5 µg/mL | +/- 2.9966<br>+/- 12.5340<br>+/- 15.0241 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 12                                                                   | n-Triacontane (C30)<br><b>CAS #</b> 638-68-6<br><b>Purity</b> 99%        | (Lot MKCN9321)   | 505.0 µg/mL | +/- 2.9995<br>+/- 12.5465<br>+/- 15.0390 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 13                                                                   | n-Dotriacontane (C32)<br><b>CAS #</b> 544-85-4<br><b>Purity</b> 99%      | (Lot BCBW0661)   | 505.0 µg/mL | +/- 2.9995<br>+/- 12.5465<br>+/- 15.0390 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 14                                                                   | n-Tetratriacontane (C34)<br><b>CAS #</b> 14167-59-0<br><b>Purity</b> 99% | (Lot OML4N)      | 504.5 µg/mL | +/- 2.9966<br>+/- 12.5340<br>+/- 15.0241 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 15                                                                   | n-Hexatriacontane (C36)<br><b>CAS #</b> 630-06-8<br><b>Purity</b> 99%    | (Lot U25B014)    | 504.0 µg/mL | +/- 2.9936<br>+/- 12.5216<br>+/- 15.0093 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 16                                                                   | n-Octatriacontane (C38)<br><b>CAS #</b> 7194-85-6<br><b>Purity</b> 97%   | (Lot 0000127235) | 504.4 µg/mL | +/- 2.9960<br>+/- 12.5316<br>+/- 15.0212 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 17                                                                   | n-Tetracontane (C40)<br><b>CAS #</b> 4181-95-7<br><b>Purity</b> 98%      | (Lot PADGI)      | 504.7 µg/mL | +/- 2.9978<br>+/- 12.5390<br>+/- 15.0301 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| <b>Solvent:</b> Hexane<br><b>CAS #</b> 110-54-3<br><b>Purity</b> 99% |                                                                          |                  |             |                                          |                         |                                       |

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

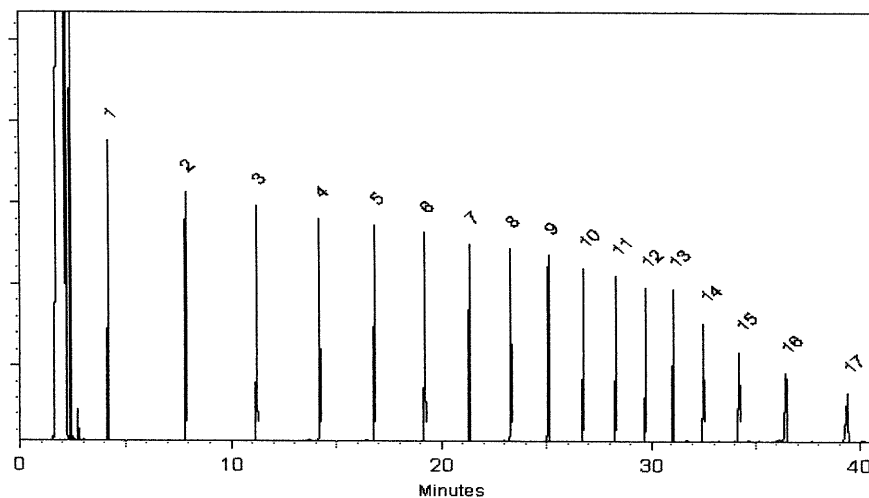
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**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



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.

*Brittany Federinko*  
Brittany Federinko - Operations Tech I

**Date Mixed:** 29-Jun-2022 **Balance:** 1128360905

*Christie Mills*  
Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 01-Jul-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.



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. : 31266 Lot No.: A0186840  
Description : Florida TRPH Standard  
Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul  
Container Size : 2 mL Pkg Amt: > 1 mL  
Expiration Date : July 31, 2029 Storage: 25°C nominal  
Handling: Sonicate prior to use. Ship: Ambient

P11948  
L } 7.0  
P11962 } 07/11

### CERTIFIED VALUES

| Elution Order | Compound                                                           | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                       |
|---------------|--------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------|
| 1             | n-Octane (C8)<br>CAS # 111-65-9 (Lot SHBN3807)<br>Purity 99%       | 505.0 µg/mL                 | +/- 2.9995 µg/mL Gravimetric<br>+/- 12.5465 µg/mL Unstressed<br>+/- 15.0390 µg/mL Stressed |
| 2             | n-Decane (C10)<br>CAS # 124-18-5 (Lot SHBN8619)<br>Purity 99%      | 503.0 µg/mL                 | +/- 2.9877 µg/mL Gravimetric<br>+/- 12.4968 µg/mL Unstressed<br>+/- 14.9795 µg/mL Stressed |
| 3             | n-Dodecane (C12)<br>CAS # 112-40-3 (Lot SHBN7174)<br>Purity 99%    | 503.5 µg/mL                 | +/- 2.9906 µg/mL Gravimetric<br>+/- 12.5092 µg/mL Unstressed<br>+/- 14.9944 µg/mL Stressed |
| 4             | n-Tetradecane (C14)<br>CAS # 629-59-4 (Lot STBK2282)<br>Purity 99% | 505.0 µg/mL                 | +/- 2.9995 µg/mL Gravimetric<br>+/- 12.5465 µg/mL Unstressed<br>+/- 15.0390 µg/mL Stressed |
| 5             | n-Hexadecane (C16)<br>CAS # 544-76-3 (Lot SHBM4146)<br>Purity 98%  | 504.7 µg/mL                 | +/- 2.9978 µg/mL Gravimetric<br>+/- 12.5390 µg/mL Unstressed<br>+/- 15.0301 µg/mL Stressed |
| 6             | n-Octadecane (C18)<br>CAS # 593-45-3 (Lot VZKOJ)<br>Purity 97%     | 504.4 µg/mL                 | +/- 2.9960 µg/mL Gravimetric<br>+/- 12.5316 µg/mL Unstressed<br>+/- 15.0212 µg/mL Stressed |
| 7             | n-Eicosane (C20)<br>CAS # 112-95-8 (Lot MKCF7888)<br>Purity 99%    | 503.5 µg/mL                 | +/- 2.9906 µg/mL Gravimetric<br>+/- 12.5092 µg/mL Unstressed<br>+/- 14.9944 µg/mL Stressed |

|                                                                      |                                                                          |                  |             |                                          |                         |                                       |
|----------------------------------------------------------------------|--------------------------------------------------------------------------|------------------|-------------|------------------------------------------|-------------------------|---------------------------------------|
| 8                                                                    | n-Docosane (C22)<br><b>CAS #</b> 629-97-0<br><b>Purity</b> 99%           | (Lot MKCL8918)   | 504.5 µg/mL | +/- 2.9966<br>+/- 12.5340<br>+/- 15.0241 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 9                                                                    | n-Tetracosane (C24)<br><b>CAS #</b> 646-31-1<br><b>Purity</b> 99%        | (Lot MKCN2863)   | 503.5 µg/mL | +/- 2.9906<br>+/- 12.5092<br>+/- 14.9944 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 10                                                                   | n-Hexacosane (C26)<br><b>CAS #</b> 630-01-3<br><b>Purity</b> 99%         | (Lot MKCD4540)   | 504.0 µg/mL | +/- 2.9936<br>+/- 12.5216<br>+/- 15.0093 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 11                                                                   | n-Octacosane (C28)<br><b>CAS #</b> 630-02-4<br><b>Purity</b> 99%         | (Lot BCCG0084)   | 504.5 µg/mL | +/- 2.9966<br>+/- 12.5340<br>+/- 15.0241 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 12                                                                   | n-Triacontane (C30)<br><b>CAS #</b> 638-68-6<br><b>Purity</b> 99%        | (Lot MKCN9321)   | 505.0 µg/mL | +/- 2.9995<br>+/- 12.5465<br>+/- 15.0390 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 13                                                                   | n-Dotriacontane (C32)<br><b>CAS #</b> 544-85-4<br><b>Purity</b> 99%      | (Lot BCBW0661)   | 505.0 µg/mL | +/- 2.9995<br>+/- 12.5465<br>+/- 15.0390 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 14                                                                   | n-Tetratriacontane (C34)<br><b>CAS #</b> 14167-59-0<br><b>Purity</b> 99% | (Lot OML4N)      | 504.5 µg/mL | +/- 2.9966<br>+/- 12.5340<br>+/- 15.0241 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 15                                                                   | n-Hexatriacontane (C36)<br><b>CAS #</b> 630-06-8<br><b>Purity</b> 99%    | (Lot U25B014)    | 504.0 µg/mL | +/- 2.9936<br>+/- 12.5216<br>+/- 15.0093 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 16                                                                   | n-Octatriacontane (C38)<br><b>CAS #</b> 7194-85-6<br><b>Purity</b> 97%   | (Lot 0000127235) | 504.4 µg/mL | +/- 2.9960<br>+/- 12.5316<br>+/- 15.0212 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 17                                                                   | n-Tetracontane (C40)<br><b>CAS #</b> 4181-95-7<br><b>Purity</b> 98%      | (Lot PADGI)      | 504.7 µg/mL | +/- 2.9978<br>+/- 12.5390<br>+/- 15.0301 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| <b>Solvent:</b> Hexane<br><b>CAS #</b> 110-54-3<br><b>Purity</b> 99% |                                                                          |                  |             |                                          |                         |                                       |



**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

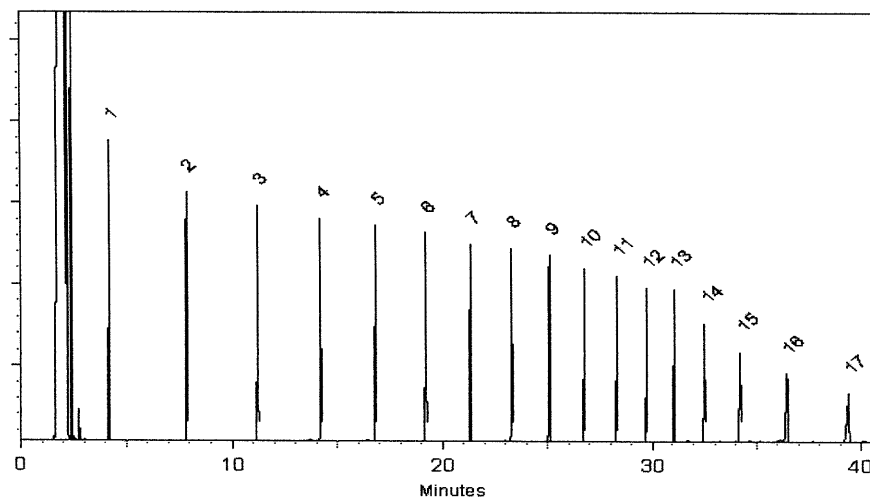
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**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



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.

*Brittany Federinko*  
Brittany Federinko - Operations Tech I

**Date Mixed:** 29-Jun-2022

**Balance:** 1128360905

*Christie Mills*  
Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 01-Jul-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/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions                                          | Standard Conditions | Non-Standard Conditions |
|-----------------------------------------------------------|---------------------|-------------------------|
| 25°C Nominal (Room Temperature)                           | < 60°C              | ≥ 60°C up to 7 days     |
| 10°C or colder (Refrigerate)                              | < 40°C              | ≥ 40°C up to 7 days     |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C              | ≥ 25°C up to 7 days     |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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. :** 31266 **Lot No.:** A0204859

**Description :** Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2030 **Storage:** 25°C nominal

**Handling:** Sonicate prior to use. **Ship:** Ambient

P13103 } Y.P.  
↓  
P13112 } 01/12/2024

### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | n-Octane (C8)            | 111-65-9   | SHBP9758   | 99%    | 504.4 µg/mL                 | +/- 13.0305                            |
| 2             | n-Decane (C10)           | 124-18-5   | SHBQ1342   | 99%    | 503.6 µg/mL                 | +/- 13.0098                            |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 503.6 µg/mL                 | +/- 13.0098                            |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBK5437   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 5             | n-Hexadecane (C16)       | 544-76-3   | SHBP8192   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 98%    | 504.1 µg/mL                 | +/- 13.0230                            |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 97%    | 504.0 µg/mL                 | +/- 13.0204                            |
| 8             | n-Docosane (C22)         | 629-97-0   | MKCQ3882   | 99%    | 503.6 µg/mL                 | +/- 13.0098                            |
| 9             | n-Tetracosane (C24)      | 646-31-1   | MKCQ8345   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 10            | n-Hexacosane (C26)       | 630-01-3   | MKCQ4814   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 11            | n-Octacosane (C28)       | 630-02-4   | BCCG0084   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 12            | n-Triacontane (C30)      | 638-68-6   | MKCQ9436   | 97%    | 504.0 µg/mL                 | +/- 13.0204                            |
| 13            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 14            | n-Tetratriacontane (C34) | 14167-59-0 | OML4N      | 99%    | 504.4 µg/mL                 | +/- 13.0305                            |
| 15            | n-Hexatriacontane (C36)  | 630-06-8   | Z27H018    | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 16            | n-Octatriacontane (C38)  | 7194-85-6  | 0000145137 | 96%    | 503.8 µg/mL                 | +/- 13.0152                            |
| 17            | n-Tetracontane (C40)     | 4181-95-7  | OKEGA      | 99%    | 503.6 µg/mL                 | +/- 13.0098                            |

**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.)

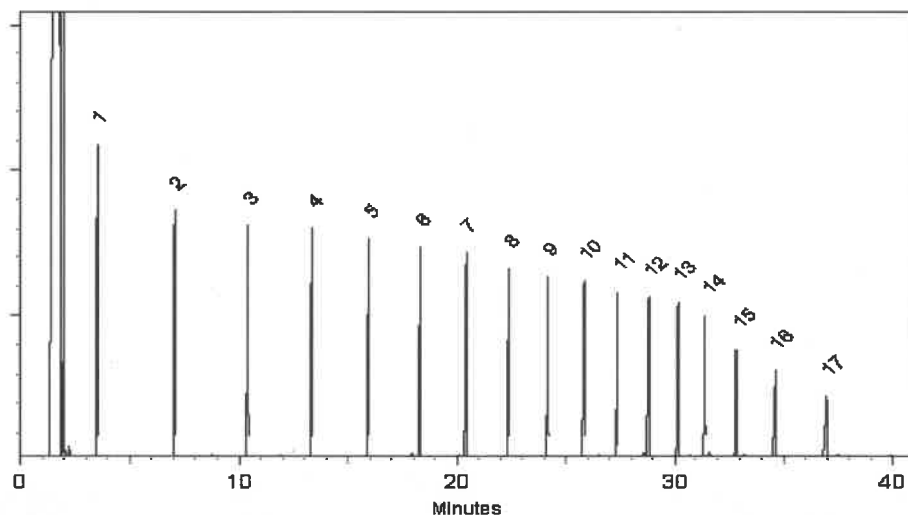
**Inj. Temp:**  
 250°C

**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.

*[Signature]*  
 Dakota Parson - Operations Technician I

**Date Mixed:** 29-Nov-2023 **Balance Serial #** B442140311

*[Signature]*  
 Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 01-Dec-2023

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/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified 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. :** 31266 **Lot No.:** A0204859

**Description :** Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2030 **Storage:** 25°C nominal

**Handling:** Sonicate prior to use. **Ship:** Ambient

P13103 } Y.P.  
↓  
P13112 } 01/12/2024

### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | n-Octane (C8)            | 111-65-9   | SHBP9758   | 99%    | 504.4 µg/mL                 | +/- 13.0305                            |
| 2             | n-Decane (C10)           | 124-18-5   | SHBQ1342   | 99%    | 503.6 µg/mL                 | +/- 13.0098                            |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 503.6 µg/mL                 | +/- 13.0098                            |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBK5437   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 5             | n-Hexadecane (C16)       | 544-76-3   | SHBP8192   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 98%    | 504.1 µg/mL                 | +/- 13.0230                            |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 97%    | 504.0 µg/mL                 | +/- 13.0204                            |
| 8             | n-Docosane (C22)         | 629-97-0   | MKCQ3882   | 99%    | 503.6 µg/mL                 | +/- 13.0098                            |
| 9             | n-Tetracosane (C24)      | 646-31-1   | MKCQ8345   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 10            | n-Hexacosane (C26)       | 630-01-3   | MKCQ4814   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 11            | n-Octacosane (C28)       | 630-02-4   | BCCG0084   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 12            | n-Triacontane (C30)      | 638-68-6   | MKCQ9436   | 97%    | 504.0 µg/mL                 | +/- 13.0204                            |
| 13            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 14            | n-Tetratriacontane (C34) | 14167-59-0 | OML4N      | 99%    | 504.4 µg/mL                 | +/- 13.0305                            |
| 15            | n-Hexatriacontane (C36)  | 630-06-8   | Z27H018    | 99%    | 504.0 µg/mL                 | +/- 13.0201                            |
| 16            | n-Octatriacontane (C38)  | 7194-85-6  | 0000145137 | 96%    | 503.8 µg/mL                 | +/- 13.0152                            |
| 17            | n-Tetracontane (C40)     | 4181-95-7  | OKEGA      | 99%    | 503.6 µg/mL                 | +/- 13.0098                            |

**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.)

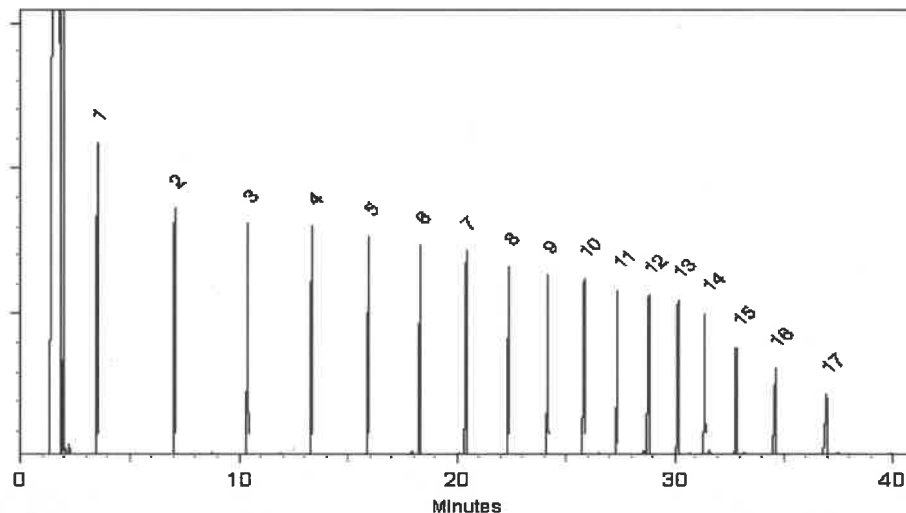
**Inj. Temp:**  
 250°C

**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.

*[Signature]*  
 Dakota Parson - Operations Technician I

**Date Mixed:** 29-Nov-2023 **Balance Serial #** B442140311

*[Signature]*  
 Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 01-Dec-2023

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.
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- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.





## CERTIFIED WEIGHT REPORT

Part Number: **72072**  
 Lot Number: **101122**  
 Description: **n-Tetracosane-d50**

Solvent(s):  
 Methylene chloride

Lot#  
 105345

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 101122 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 101122 |
| Reviewed By:   | Pedro L. Rentas  | DATE   |

Expiration Date: 101132

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

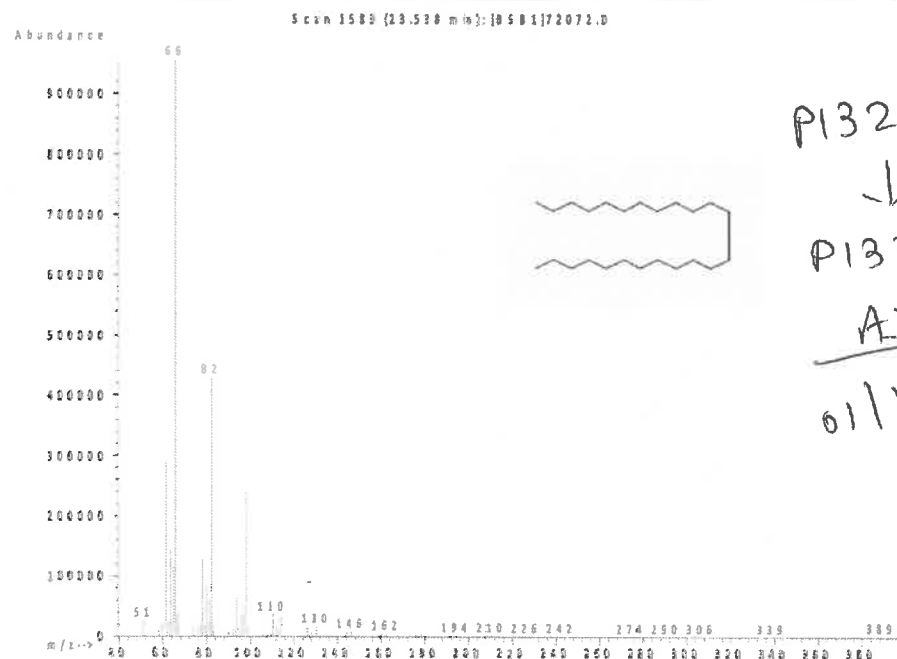
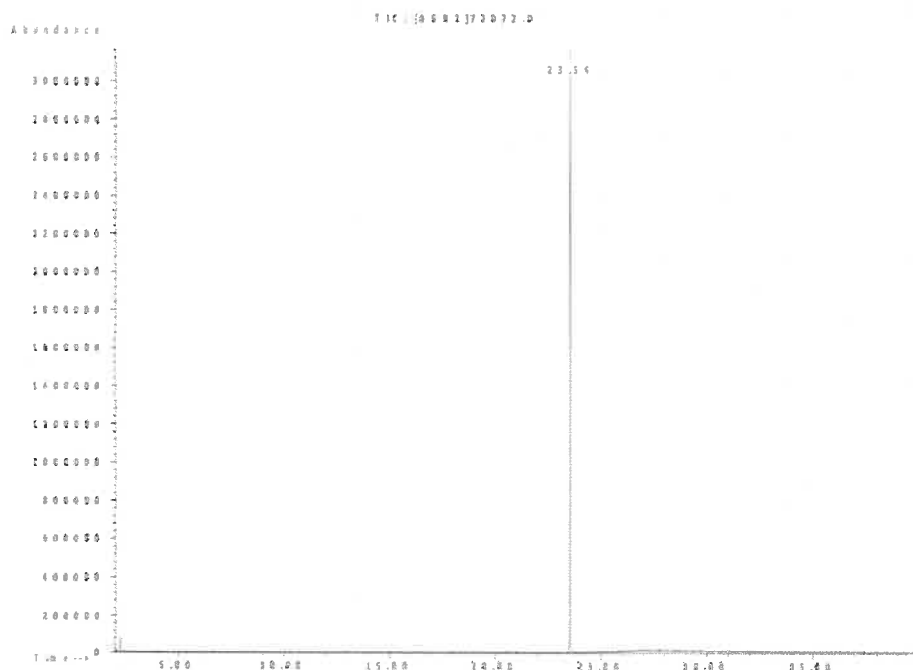
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

| Compound             | RM#  | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Assay (%D) | 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. n-Tetracosane-d50 | 2072 | PR-26606   | 1000                 | 98.7       | 0.2                | 99.0       | 0.20471          | 0.20482          | 1000.6              | 4.1                                | 16416-32-3                                                | N/A            | N/A  |

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



P13205  
 ↓  
 P13214  
 AJ  
 01/17/24

- 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: **72072**  
 Lot Number: **101122**  
 Description: **n-Tetracosane-d50**

Solvent(s):  
 Methylene chloride

Lot#  
 105345

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 101122 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 101122 |
| Reviewed By:   | Pedro L. Rentas  | DATE   |

Expiration Date: 101132

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

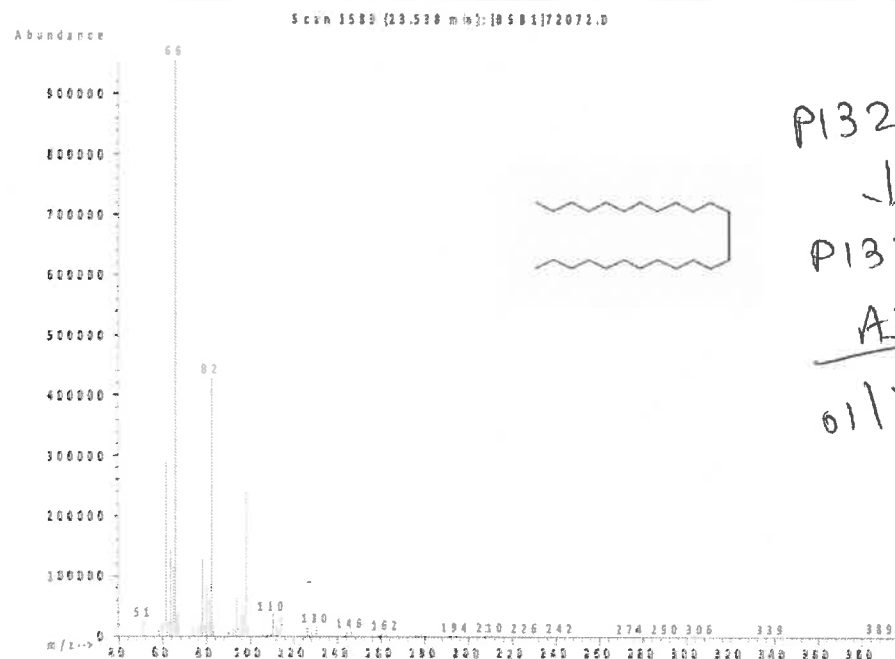
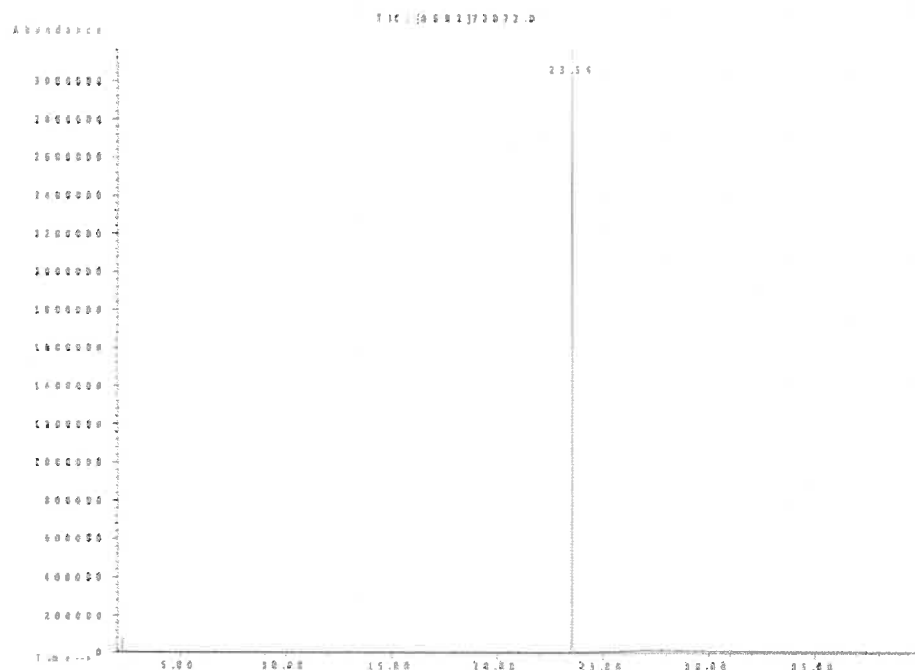
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

| Compound             | RM#  | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Assay (%D) | 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. n-Tetracosane-d50 | 2072 | PR-26606   | 1000                 | 98.7       | 0.2                | 99.0       | 0.20471          | 0.20482          | 1000.6              | 4.1                                | 16416-32-3                                                | N/A            | N/A  |

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



P13205  
 ↓  
 P13214  
 AJ  
 01/17/24

- 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: **72072**  
Lot Number: **101122**  
Description: **n-Tetracosane-d50**

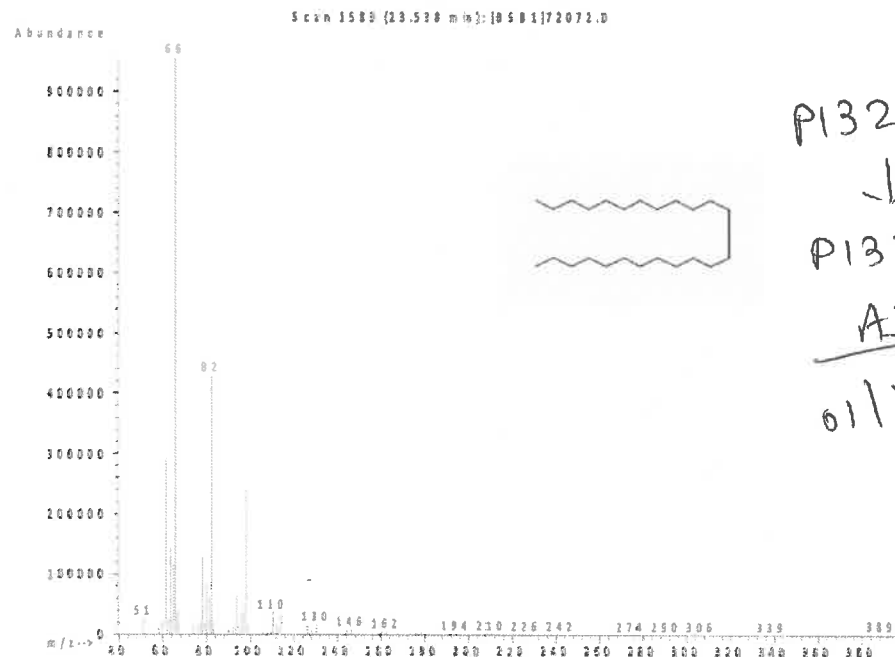
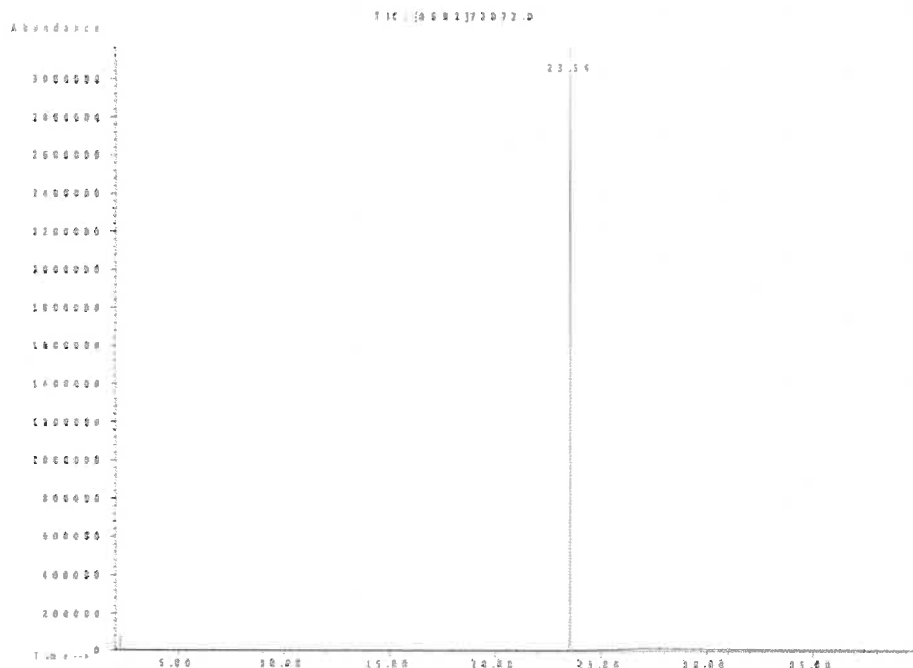
Solvent(s):  
Methylene chloride  
Lot#: 105345

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 101122 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 101122 |
| Reviewed By:   | Pedro L. Rentas  | DATE   |

Expiration Date: 101132  
Recommended Storage: Ambient (20 °C)  
Nominal Concentration (µg/mL): 1000  
NIST Test ID#: 6UTB  
5E-05 Balance Uncertainty  
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

| Compound             | RM#  | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Assay (%D) | 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. n-Tetracosane-d50 | 2072 | PR-26606   | 1000                 | 98.7       | 0.2                | 99.0       | 0.20471          | 0.20482          | 1000.6              | 4.1                                | 16416-32-3                                                | N/A            | N/A  |

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



P13205  
↓  
P13214  
AJ  
01/17/24

- 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: **72072**  
 Lot Number: **101122**  
 Description: **n-Tetracosane-d50**

Solvent(s):  
 Methylene chloride

Lot#  
 105345

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 101122 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 101122 |
| Reviewed By:   | Pedro L. Rentas  | DATE   |

Expiration Date: 101132

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

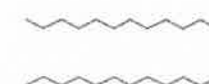
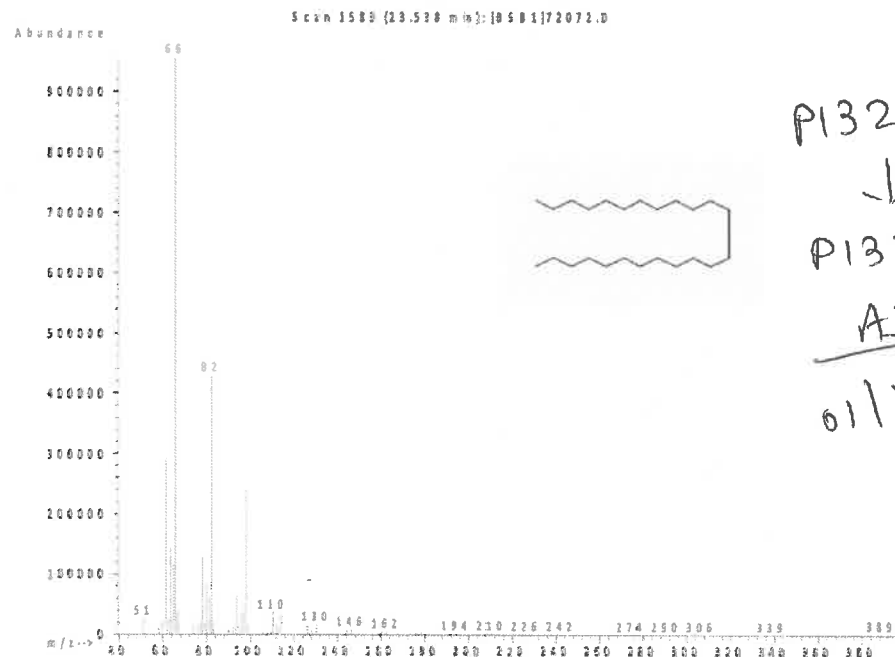
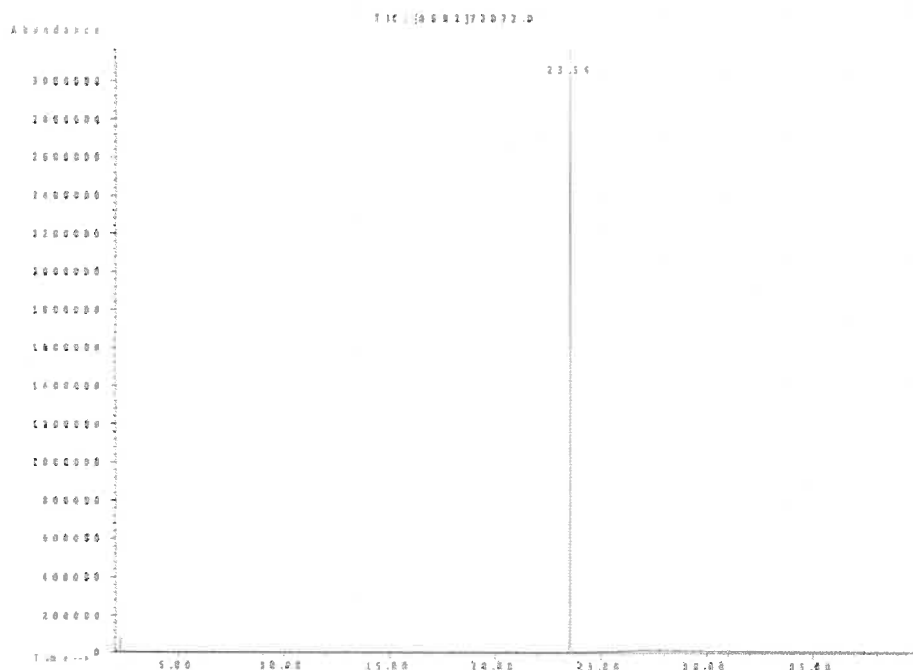
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

| Compound             | RM#  | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Assay (%D) | 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. n-Tetracosane-d50 | 2072 | PR-26606   | 1000                 | 98.7       | 0.2                | 99.0       | 0.20471          | 0.20482          | 1000.6              | 4.1                                | 16416-32-3                                                | N/A            | N/A  |

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



P13205  
 ↓  
 P13214  
 AJ  
 01/17/24

- 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: **72072**  
 Lot Number: **101122**  
 Description: **n-Tetracosane-d50**

Solvent(s):  
 Methylene chloride

Lot#  
 105345

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 101122 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 101122 |
| Reviewed By:   | Pedro L. Rentas  | DATE   |

Expiration Date: 101132

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

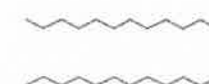
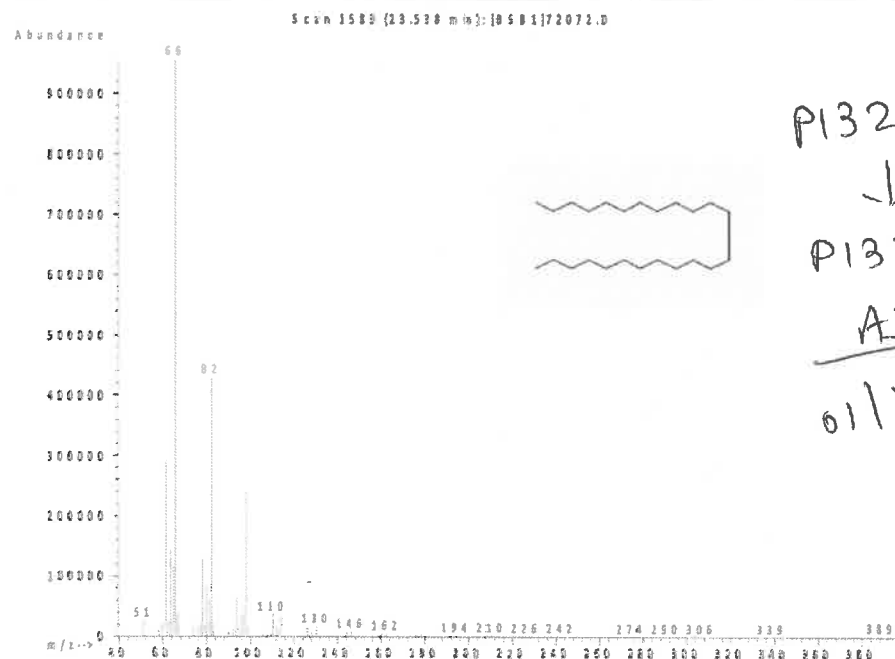
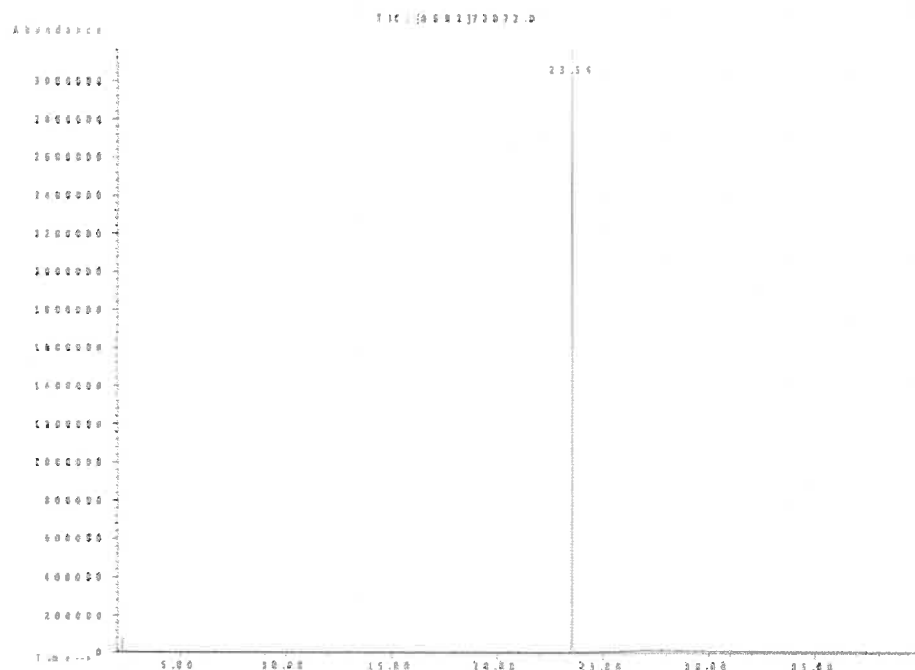
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

| Compound             | RM#  | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Assay (%D) | 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. n-Tetracosane-d50 | 2072 | PR-26606   | 1000                 | 98.7       | 0.2                | 99.0       | 0.20471          | 0.20482          | 1000.6              | 4.1                                | 16416-32-3                                                | N/A            | N/A  |

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



P13205  
 ↓  
 P13214  
 AJ  
 01/17/24

- 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: **72072**  
 Lot Number: **101122**  
 Description: **n-Tetracosane-d50**

Solvent(s):  
 Methylene chloride

Lot#  
 105345

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 101122 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 101122 |
| Reviewed By:   | Pedro L. Rentas  | DATE   |

Expiration Date: 101132

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

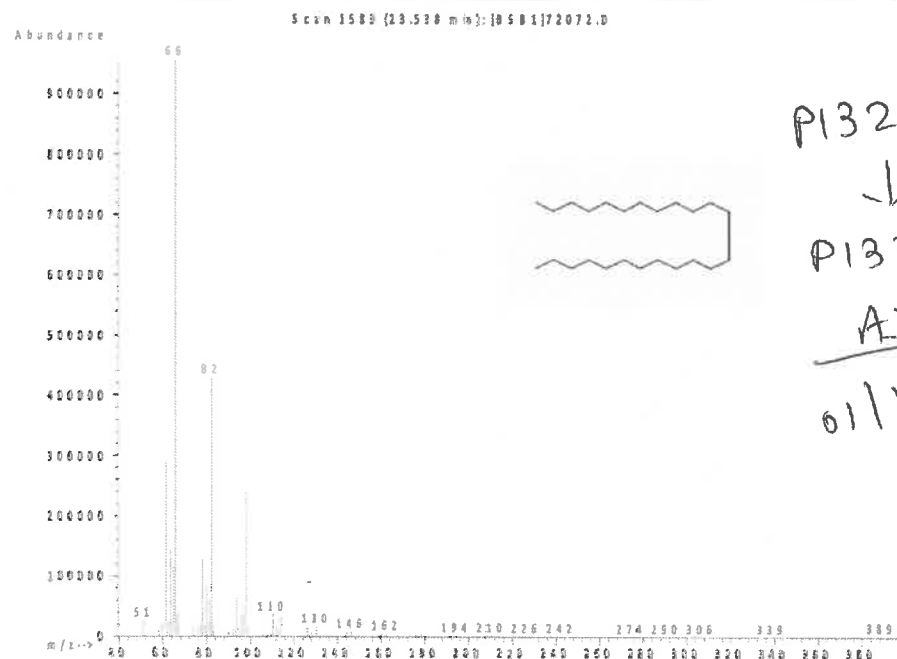
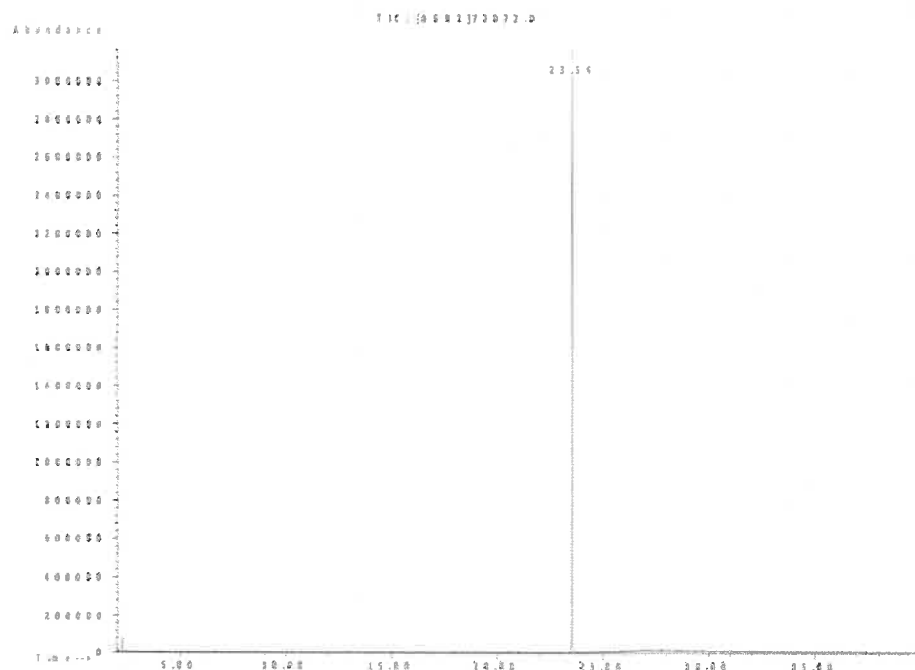
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

| Compound             | RM#  | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Assay (%D) | 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. n-Tetracosane-d50 | 2072 | PR-26606   | 1000                 | 98.7       | 0.2                | 99.0       | 0.20471          | 0.20482          | 1000.6              | 4.1                                | 16416-32-3                                                | N/A            | N/A  |

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



P13205  
 ↓  
 P13214  
 AJ  
 01/17/24

- 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).



5580 Skyline Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: Storage: Solvent: Exp. Date: Description:  
Z-110400-05 514983  $\leq -10$  Degrees C Hexane 11/20/2028 TRPH Standard (C8-C40), 500 mg/L, 1 ml  
-01

| Compound               | CAS No.    | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------|------------|------------|------------------|---------------------|
| decane (C10)           | 124-18-5   | 99.7       | 415.7.2P         | 498.5 $\pm$ 6.92    |
| docosane (C22)         | 629-97-0   | 98.8       | 420.9.1P         | 499.4 $\pm$ 6.93    |
| dodecane (C12)         | 112-40-3   | 99.7       | 416.9.3P         | 502 $\pm$ 6.97      |
| dotriacontane (C32)    | 544-85-4   | 97         | 425.9.2.2P       | 499.6 $\pm$ 8.53    |
| eicosane (C20)         | 112-95-8   | 99.8       | 419.7.1P         | 501 $\pm$ 6.95      |
| hexacosane (C26)       | 630-01-3   | 99.3       | 422.7.2.1P       | 501 $\pm$ 6.95      |
| hexatriacontane (C36)  | 630-06-8   | 98         | 427.29.1.1P      | 499.3 $\pm$ 8.53    |
| n-hexadecane (C16)     | 544-76-3   | 99.45      | 368.271.1P       | 498.7 $\pm$ 6.91    |
| octacosane (C28)       | 630-02-4   | 99.1       | 423.24.1P        | 500.5 $\pm$ 6.95    |
| n-octadecane (C18)     | 593-45-3   | 99.5       | 418.29.1P        | 499.5 $\pm$ 6.92    |
| octane (C8)            | 111-65-9   | 99.4       | 385.7.2.1P       | 498.5 $\pm$ 6.92    |
| octatriacontane (C38)  | 7194-85-6  | 95         | 428.1.2P         | 500.2 $\pm$ 6.94    |
| tetracontane (C40)     | 4181-95-7  | 97         | 429.7.2P         | 499.6 $\pm$ 6.93    |
| n-tetracosane (C24)    | 646-31-1   | 99.5       | 421.7.1P         | 499.5 $\pm$ 6.93    |
| n-tetradecane (C14)    | 629-59-4   | 99.3       | 417.9.1P         | 500 $\pm$ 6.94      |
| tetratriacontane (C34) | 14167-59-0 | 96.1       | 426.7.2.2P       | 499.7 $\pm$ 8.53    |
| triacontane (C30)      | 638-68-6   | 99.5       | 424.7.1.1P       | 500 $\pm$ 6.94      |

Let the standard warm to room temperature and sonicate before opening.

Certified By: \_\_\_\_\_

Andrea Schaible  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.

\*Not a certified value



5580 Skylane Blvd  
Santa Rosa, CA 95403

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Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: Storage: Solvent: Exp. Date: Description:  
Z-110400-05 514983  $\leq -10$  Degrees C Hexane 11/20/2028 TRPH Standard (C8-C40), 500 mg/L, 1 ml  
-01

| Compound               | CAS No.    | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------|------------|------------|------------------|---------------------|
| decane (C10)           | 124-18-5   | 99.7       | 415.7.2P         | 498.5 $\pm$ 6.92    |
| docosane (C22)         | 629-97-0   | 98.8       | 420.9.1P         | 499.4 $\pm$ 6.93    |
| dodecane (C12)         | 112-40-3   | 99.7       | 416.9.3P         | 502 $\pm$ 6.97      |
| dotriacontane (C32)    | 544-85-4   | 97         | 425.9.2.2P       | 499.6 $\pm$ 8.53    |
| eicosane (C20)         | 112-95-8   | 99.8       | 419.7.1P         | 501 $\pm$ 6.95      |
| hexacosane (C26)       | 630-01-3   | 99.3       | 422.7.2.1P       | 501 $\pm$ 6.95      |
| hexatriacontane (C36)  | 630-06-8   | 98         | 427.29.1.1P      | 499.3 $\pm$ 8.53    |
| n-hexadecane (C16)     | 544-76-3   | 99.45      | 368.271.1P       | 498.7 $\pm$ 6.91    |
| octacosane (C28)       | 630-02-4   | 99.1       | 423.24.1P        | 500.5 $\pm$ 6.95    |
| n-octadecane (C18)     | 593-45-3   | 99.5       | 418.29.1P        | 499.5 $\pm$ 6.92    |
| octane (C8)            | 111-65-9   | 99.4       | 385.7.2.1P       | 498.5 $\pm$ 6.92    |
| octatriacontane (C38)  | 7194-85-6  | 95         | 428.1.2P         | 500.2 $\pm$ 6.94    |
| tetracontane (C40)     | 4181-95-7  | 97         | 429.7.2P         | 499.6 $\pm$ 6.93    |
| n-tetracosane (C24)    | 646-31-1   | 99.5       | 421.7.1P         | 499.5 $\pm$ 6.93    |
| n-tetradecane (C14)    | 629-59-4   | 99.3       | 417.9.1P         | 500 $\pm$ 6.94      |
| tetratriacontane (C34) | 14167-59-0 | 96.1       | 426.7.2.2P       | 499.7 $\pm$ 8.53    |
| triacontane (C30)      | 638-68-6   | 99.5       | 424.7.1.1P       | 500 $\pm$ 6.94      |

Let the standard warm to room temperature and sonicate before opening.

Certified By: \_\_\_\_\_

Andrea Schaible  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.

\*Not a certified value



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014761.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 15:31  
Operator : YP\AJ  
Sample : P4495-14  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
PT-DIES-SOIL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e  
Quant Time: Oct 25 04:36:42 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units    |
|-------------------------------|--------|----------|---------------|
| -----                         |        |          |               |
| System Monitoring Compounds   |        |          |               |
| 9) S TETRACOSANE-d50 (SURR... | 15.015 | 2214599  | 16.828 ug/mlm |
| Target Compounds              |        |          |               |
| -----                         |        |          |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF102424\  
Data File : FF014761.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 15:31  
Operator : YP\AJ  
Sample : P4495-14  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

## Instrument :

FID\_F

## ClientSampleId :

PT-DIES-SOIL

## Manual Integrations

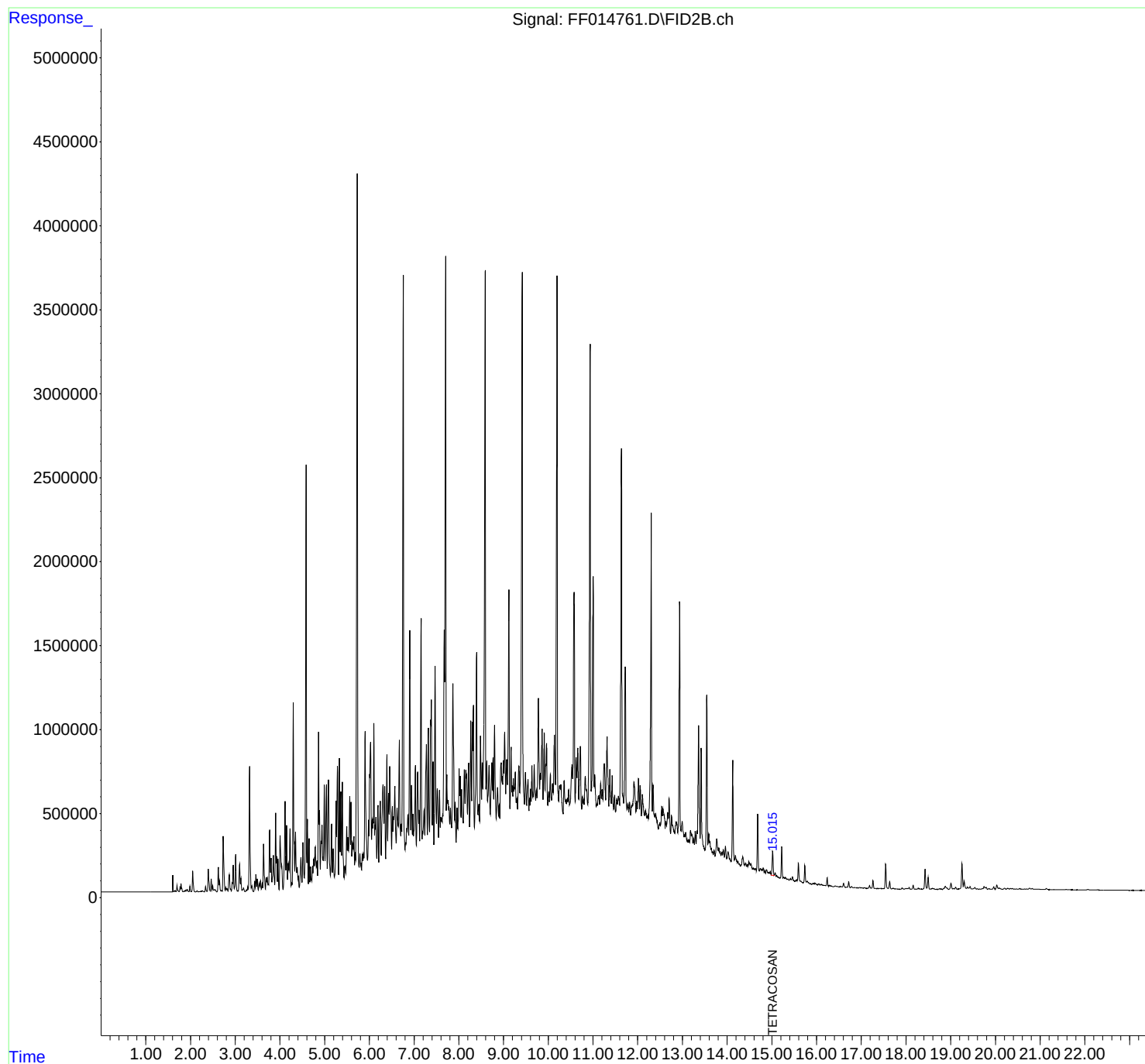
## APPROVED

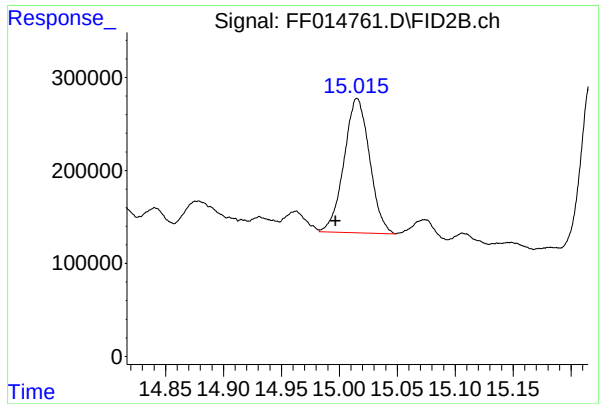
Reviewed By :Yogesh Patel 10/25/2024

Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e  
Quant Time: Oct 25 04:36:42 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Quant Title :  
QLast Update : Tue Oct 22 08:35:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.015 min  
Delta R.T.: 0.018 min  
Response: 2214599  
Conc: 16.83 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PT-DIES-SOIL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18

Instrument :  
FID\_F  
ClientSampleId :  
PT-DIES-SOIL  
Area Percent Report  
Manual IntegrationsAPPROVED  
Reviewed By :Yogesh Patel 10/25/2024  
Supervised By :Ankita Jodhani 10/25/2024

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF1021242  
Data File : FF014761.D  
Signal(s) : FID2B.ch  
Acq On : 24 Oct 2024 15:31  
Sample : P4495-14  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF102124.M  
Title :

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|--------|----------|-----------|---------|-------|-------------|-----------|-------------|------------|
| 1      | 4.586    | 4.544     | 4.600   | HH    | 2543396     | 30727108  | 37.63%      | 0.893%     |
| 2      | 4.614    | 4.600     | 4.634   | HH    | 433101      | 5182535   | 6.35%       | 0.151%     |
| 3      | 4.652    | 4.634     | 4.670   | HH    | 317153      | 3514285   | 4.30%       | 0.102%     |
| 4      | 4.684    | 4.670     | 4.700   | HH    | 150296      | 1815332   | 2.22%       | 0.053%     |
| 5      | 4.703    | 4.700     | 4.712   | HH    | 72278       | 536989    | 0.66%       | 0.016%     |
| 6      | 4.728    | 4.712     | 4.738   | HH    | 152315      | 1712432   | 2.10%       | 0.050%     |
| 7      | 4.756    | 4.738     | 4.771   | HH    | 196357      | 3362471   | 4.12%       | 0.098%     |
| 8      | 4.788    | 4.771     | 4.816   | HH    | 268271      | 5316509   | 6.51%       | 0.154%     |
| 9      | 4.828    | 4.816     | 4.842   | HH    | 185707      | 2380681   | 2.92%       | 0.069%     |
| 10     | 4.864    | 4.842     | 4.877   | HH    | 951656      | 11233533  | 13.76%      | 0.326%     |
| 11     | 4.885    | 4.877     | 4.902   | HH    | 486160      | 5070571   | 6.21%       | 0.147%     |
| 12     | 4.921    | 4.902     | 4.928   | HH    | 303437      | 3764090   | 4.61%       | 0.109%     |
| 13     | 4.940    | 4.928     | 4.955   | HH    | 398157      | 5116994   | 6.27%       | 0.149%     |
| 14     | 4.963    | 4.955     | 4.971   | HH    | 208695      | 1865001   | 2.28%       | 0.054%     |
| 15     | 4.992    | 4.971     | 5.008   | HH    | 636258      | 8461364   | 10.36%      | 0.246%     |
| 16     | 5.039    | 5.008     | 5.058   | HH    | 638878      | 11594875  | 14.20%      | 0.337%     |
| 17     | 5.087    | 5.058     | 5.128   | HH    | 667037      | 14273771  | 17.48%      | 0.415%     |
| 18     | 5.154    | 5.128     | 5.173   | HH    | 405183      | 5972879   | 7.31%       | 0.174%     |
| 19     | 5.190    | 5.173     | 5.218   | HH    | 256648      | 4448825   | 5.45%       | 0.129%     |
| 20     | 5.255    | 5.218     | 5.266   | HH    | 542083      | 7607246   | 9.32%       | 0.221%     |
| 21     | 5.287    | 5.266     | 5.310   | HH    | 749060      | 12499760  | 15.31%      | 0.363%     |
| 22     | 5.330    | 5.310     | 5.345   | HH    | 795959      | 9363606   | 11.47%      | 0.272%     |
| 23     | 5.361    | 5.345     | 5.377   | HH    | 597143      | 7687053   | 9.41%       | 0.223%     |
| 24     | 5.396    | 5.377     | 5.432   | HH    | 654000      | 10592286  | 12.97%      | 0.308%     |
| 25     | 5.449    | 5.432     | 5.471   | HH    | 151900      | 2937188   | 3.60%       | 0.085%     |
| 26     | 5.494    | 5.471     | 5.507   | HH    | 388328      | 5676554   | 6.95%       | 0.165%     |
| 27     | 5.518    | 5.507     | 5.531   | HH    | 325033      | 4125798   | 5.05%       | 0.120%     |
| 28     | 5.562    | 5.531     | 5.578   | HH    | 567486      | 10633913  | 13.02%      | 0.309%     |
| 29     | 5.591    | 5.578     | 5.607   | HH    | 534352      | 6701827   | 8.21%       | 0.195%     |
| 30     | 5.620    | 5.607     | 5.640   | HH    | 294699      | 5314826   | 6.51%       | 0.154%     |
| 31     | 5.654    | 5.640     | 5.670   | HH    | 330141      | 4751611   | 5.82%       | 0.138%     |
| 32     | 5.683    | 5.670     | 5.692   | HH    | 234649      | 2647212   | 3.24%       | 0.077%     |
| 33     | 5.730    | 5.692     | 5.769   | HH    | 4276283     | 62908089  | 77.03%      | 1.827%     |
| 34     | 5.789    | 5.769     | 5.803   | HH    | 228147      | 3967451   | 4.86%       | 0.115%     |
| 35     | 5.811    | 5.803     | 5.825   | HH    | 173257      | 1986811   | 2.43%       | 0.058%     |
| 36     | 5.843    | 5.825     | 5.858   | HH    | 224918      | 3832233   | 4.69%       | 0.111%     |

| PT-DIES-SOIL |       |       |       |    |         |          | Client Sampled : |        |
|--------------|-------|-------|-------|----|---------|----------|------------------|--------|
| 37           | 5.870 | 5.858 | 5.880 | HH | 228503  | 2767581  | 3.39%            | 0.080% |
| 38           | 5.904 | 5.880 | 5.959 | HH | 953095  | 20810401 | 25.00%           | 0.000% |
| 39           | 5.981 | 5.959 | 5.990 | HH | 428351  | 5736259  | 7.00%            | 0.000% |
| 40           | 6.005 | 5.990 | 6.010 | HH | 699315  | 6666263  | 8.00%            | 0.000% |
| 41           | 6.028 | 6.010 | 6.049 | HH | 891425  | 15988602 | 19.00%           | 0.000% |
| 42           | 6.063 | 6.049 | 6.071 | HH | 430626  | 5042419  | 6.00%            | 0.000% |
| 43           | 6.081 | 6.071 | 6.086 | HH | 435801  | 3665781  | 4.49%            | 0.106% |
| 44           | 6.102 | 6.086 | 6.117 | HH | 1004579 | 11897836 | 14.57%           | 0.346% |
| 45           | 6.126 | 6.117 | 6.135 | HH | 398717  | 3995773  | 4.89%            | 0.116% |
| 46           | 6.145 | 6.135 | 6.165 | HH | 443783  | 6520931  | 7.99%            | 0.189% |
| 47           | 6.192 | 6.165 | 6.211 | HH | 515182  | 9032371  | 11.06%           | 0.262% |
| 48           | 6.244 | 6.211 | 6.264 | HH | 540244  | 12120062 | 14.84%           | 0.352% |
| 49           | 6.307 | 6.264 | 6.329 | HH | 639643  | 18631775 | 22.82%           | 0.541% |
| 50           | 6.345 | 6.329 | 6.363 | HH | 626113  | 9239140  | 11.31%           | 0.268% |
| 51           | 6.392 | 6.363 | 6.409 | HH | 814745  | 13058657 | 15.99%           | 0.379% |
| 52           | 6.430 | 6.409 | 6.442 | HH | 588241  | 9541645  | 11.68%           | 0.277% |
| 53           | 6.456 | 6.442 | 6.498 | HH | 746748  | 17363004 | 21.26%           | 0.504% |
| 54           | 6.514 | 6.498 | 6.527 | HH | 509714  | 6820067  | 8.35%            | 0.198% |
| 55           | 6.541 | 6.527 | 6.548 | HH | 449074  | 5382306  | 6.59%            | 0.156% |
| 56           | 6.570 | 6.548 | 6.600 | HH | 629142  | 14002510 | 17.15%           | 0.407% |
| 57           | 6.620 | 6.600 | 6.645 | HH | 498867  | 11376926 | 13.93%           | 0.330% |
| 58           | 6.670 | 6.645 | 6.702 | HH | 903371  | 18538004 | 22.70%           | 0.539% |
| 59           | 6.715 | 6.702 | 6.724 | HH | 404035  | 4952883  | 6.07%            | 0.144% |
| 60           | 6.759 | 6.724 | 6.796 | HH | 3672968 | 55642042 | 68.14%           | 1.616% |
| 61           | 6.837 | 6.796 | 6.844 | HH | 378821  | 8874578  | 10.87%           | 0.258% |
| 62           | 6.862 | 6.844 | 6.880 | HH | 456742  | 8780556  | 10.75%           | 0.255% |
| 63           | 6.905 | 6.880 | 6.927 | HH | 1557311 | 23537268 | 28.82%           | 0.684% |
| 64           | 6.943 | 6.927 | 6.962 | HH | 634226  | 10367520 | 12.70%           | 0.301% |
| 65           | 6.974 | 6.962 | 6.987 | HH | 463146  | 6045225  | 7.40%            | 0.176% |
| 66           | 7.029 | 6.987 | 7.050 | HH | 752663  | 17384427 | 21.29%           | 0.505% |
| 67           | 7.079 | 7.050 | 7.102 | HH | 714540  | 15865902 | 19.43%           | 0.461% |
| 68           | 7.111 | 7.102 | 7.125 | HH | 487113  | 5712084  | 6.99%            | 0.166% |
| 69           | 7.157 | 7.125 | 7.180 | HH | 1628865 | 25629252 | 31.38%           | 0.744% |
| 70           | 7.192 | 7.180 | 7.196 | HH | 356773  | 3406212  | 4.17%            | 0.099% |
| 71           | 7.223 | 7.196 | 7.240 | HH | 487797  | 10661244 | 13.06%           | 0.310% |
| 72           | 7.276 | 7.240 | 7.298 | HH | 877953  | 21398592 | 26.20%           | 0.622% |
| 73           | 7.319 | 7.298 | 7.345 | HH | 976467  | 16923419 | 20.72%           | 0.492% |
| 74           | 7.371 | 7.345 | 7.378 | HH | 1024249 | 14468773 | 17.72%           | 0.420% |
| 75           | 7.387 | 7.378 | 7.407 | HH | 1143316 | 14289542 | 17.50%           | 0.415% |
| 76           | 7.425 | 7.407 | 7.444 | HH | 775429  | 11795736 | 14.44%           | 0.343% |
| 77           | 7.471 | 7.444 | 7.501 | HH | 1344726 | 24628172 | 30.16%           | 0.715% |
| 78           | 7.519 | 7.501 | 7.548 | HH | 615927  | 13972950 | 17.11%           | 0.406% |
| 79           | 7.569 | 7.548 | 7.586 | HH | 604928  | 10606077 | 12.99%           | 0.308% |
| 80           | 7.598 | 7.586 | 7.607 | HH | 444088  | 5399143  | 6.61%            | 0.157% |
| 81           | 7.617 | 7.607 | 7.627 | HH | 434245  | 4966171  | 6.08%            | 0.144% |
| 82           | 7.639 | 7.627 | 7.644 | HH | 459322  | 4612115  | 5.65%            | 0.134% |
| 83           | 7.674 | 7.644 | 7.683 | HH | 1559890 | 23673527 | 28.99%           | 0.688% |
| 84           | 7.708 | 7.683 | 7.722 | HH | 3770620 | 52463249 | 64.24%           | 1.524% |
| 85           | 7.732 | 7.722 | 7.756 | HH | 695671  | 11935700 | 14.62%           | 0.347% |
| 86           | 7.762 | 7.756 | 7.774 | HH | 545576  | 5570764  | 6.82%            | 0.162% |
| 87           | 7.780 | 7.774 | 7.798 | HH | 509767  | 6816128  | 8.35%            | 0.198% |
| 88           | 7.815 | 7.798 | 7.841 | HH | 500525  | 11281919 | 13.82%           | 0.328% |
| 89           | 7.869 | 7.841 | 7.904 | HH | 1238071 | 28766047 | 35.23%           | 0.836% |

|        |        |        |        |    |         |          |         | Instrument :<br>FID_F            |                                                              |
|--------|--------|--------|--------|----|---------|----------|---------|----------------------------------|--------------------------------------------------------------|
|        |        |        |        |    |         |          |         | ClientSampleId :<br>PT-DIES-SOIL |                                                              |
| rteres |        |        |        |    |         |          |         |                                  |                                                              |
| 90     | 7.920  | 7.904  | 7.940  | HH | 535439  | 9352931  | 11.45%  | 0.272%                           | Manual Integrat<br><br>Reviewed By :Yog<br>Supervised By :An |
| 91     | 7.962  | 7.940  | 7.976  | HH | 500317  | 8812875  | 10.00%  | 0.272%                           |                                                              |
| 92     | 8.008  | 7.976  | 8.020  | HH | 732794  | 13902341 | 17.00%  | 0.272%                           |                                                              |
| 93     | 8.033  | 8.020  | 8.049  | HH | 688334  | 10566471 | 12.00%  | 0.272%                           |                                                              |
| 94     | 8.063  | 8.049  | 8.100  | HH | 611455  | 15372131 | 18.00%  | 0.272%                           |                                                              |
| 95     | 8.124  | 8.100  | 8.141  | HH | 727992  | 14171633 | 17.00%  | 0.272%                           |                                                              |
| 96     | 8.157  | 8.141  | 8.168  | HH | 724530  | 10617598 | 13.00%  | 0.308%                           |                                                              |
| 97     | 8.176  | 8.168  | 8.194  | HH | 697504  | 9524933  | 11.66%  | 0.277%                           |                                                              |
| 98     | 8.220  | 8.194  | 8.241  | HH | 765562  | 16408806 | 20.09%  | 0.477%                           |                                                              |
| 99     | 8.269  | 8.241  | 8.287  | HH | 1019584 | 18640095 | 22.83%  | 0.541%                           |                                                              |
| 100    | 8.306  | 8.287  | 8.315  | HH | 1007413 | 13860713 | 16.97%  | 0.403%                           |                                                              |
| 101    | 8.326  | 8.315  | 8.349  | HH | 1107208 | 15751207 | 19.29%  | 0.458%                           |                                                              |
| 102    | 8.398  | 8.349  | 8.426  | HH | 1420404 | 33690071 | 41.25%  | 0.979%                           |                                                              |
| 103    | 8.449  | 8.426  | 8.464  | HH | 522666  | 10874744 | 13.32%  | 0.316%                           |                                                              |
| 104    | 8.486  | 8.464  | 8.509  | HH | 928203  | 18503518 | 22.66%  | 0.538%                           |                                                              |
| 105    | 8.524  | 8.509  | 8.538  | HH | 768306  | 11665664 | 14.29%  | 0.339%                           |                                                              |
| 106    | 8.591  | 8.538  | 8.607  | HH | 3705652 | 66740563 | 81.73%  | 1.939%                           |                                                              |
| 107    | 8.626  | 8.607  | 8.642  | HH | 779217  | 13937376 | 17.07%  | 0.405%                           |                                                              |
| 108    | 8.677  | 8.642  | 8.705  | HH | 754622  | 22921947 | 28.07%  | 0.666%                           |                                                              |
| 109    | 8.739  | 8.705  | 8.752  | HH | 769479  | 17834975 | 21.84%  | 0.518%                           |                                                              |
| 110    | 8.765  | 8.752  | 8.780  | HH | 799429  | 11403663 | 13.96%  | 0.331%                           |                                                              |
| 111    | 8.801  | 8.780  | 8.837  | HH | 991970  | 23445146 | 28.71%  | 0.681%                           |                                                              |
| 112    | 8.867  | 8.837  | 8.892  | HH | 621846  | 17429438 | 21.34%  | 0.506%                           |                                                              |
| 113    | 8.903  | 8.892  | 8.917  | HH | 518901  | 7445411  | 9.12%   | 0.216%                           |                                                              |
| 114    | 8.950  | 8.917  | 8.962  | HH | 769362  | 18059742 | 22.11%  | 0.525%                           |                                                              |
| 115    | 8.972  | 8.962  | 8.982  | HH | 689774  | 7807889  | 9.56%   | 0.227%                           |                                                              |
| 116    | 8.998  | 8.982  | 9.009  | HH | 782693  | 11675168 | 14.30%  | 0.339%                           |                                                              |
| 117    | 9.026  | 9.009  | 9.050  | HH | 950924  | 19391657 | 23.75%  | 0.563%                           |                                                              |
| 118    | 9.070  | 9.050  | 9.087  | HH | 789152  | 15515872 | 19.00%  | 0.451%                           |                                                              |
| 119    | 9.122  | 9.087  | 9.143  | HH | 1795925 | 34832408 | 42.65%  | 1.012%                           |                                                              |
| 120    | 9.170  | 9.143  | 9.187  | HH | 860010  | 17390636 | 21.30%  | 0.505%                           |                                                              |
| 121    | 9.196  | 9.187  | 9.207  | HH | 632053  | 7570637  | 9.27%   | 0.220%                           |                                                              |
| 122    | 9.221  | 9.207  | 9.234  | HH | 673719  | 9873346  | 12.09%  | 0.287%                           |                                                              |
| 123    | 9.263  | 9.234  | 9.283  | HH | 714524  | 18799020 | 23.02%  | 0.546%                           |                                                              |
| 124    | 9.297  | 9.283  | 9.314  | HH | 556376  | 9778255  | 11.97%  | 0.284%                           |                                                              |
| 125    | 9.343  | 9.314  | 9.363  | HH | 745480  | 18638124 | 22.82%  | 0.541%                           |                                                              |
| 126    | 9.419  | 9.363  | 9.469  | HH | 3687866 | 81663342 | 100.00% | 2.372%                           |                                                              |
| 127    | 9.489  | 9.469  | 9.517  | HH | 708717  | 17659754 | 21.63%  | 0.513%                           |                                                              |
| 128    | 9.549  | 9.517  | 9.569  | HH | 668934  | 18390057 | 22.52%  | 0.534%                           |                                                              |
| 129    | 9.582  | 9.569  | 9.592  | HH | 554027  | 7385750  | 9.04%   | 0.215%                           |                                                              |
| 130    | 9.606  | 9.592  | 9.617  | HH | 613126  | 8657372  | 10.60%  | 0.251%                           |                                                              |
| 131    | 9.635  | 9.617  | 9.652  | HH | 749628  | 13492742 | 16.52%  | 0.392%                           |                                                              |
| 132    | 9.661  | 9.652  | 9.669  | HH | 583444  | 5877148  | 7.20%   | 0.171%                           |                                                              |
| 133    | 9.687  | 9.669  | 9.721  | HH | 755257  | 19482404 | 23.86%  | 0.566%                           |                                                              |
| 134    | 9.735  | 9.721  | 9.752  | HH | 605713  | 11050155 | 13.53%  | 0.321%                           |                                                              |
| 135    | 9.778  | 9.752  | 9.810  | HH | 1151907 | 28566147 | 34.98%  | 0.830%                           |                                                              |
| 136    | 9.824  | 9.810  | 9.833  | HH | 705043  | 9232669  | 11.31%  | 0.268%                           |                                                              |
| 137    | 9.864  | 9.833  | 9.884  | HH | 969475  | 24176153 | 29.60%  | 0.702%                           |                                                              |
| 138    | 9.910  | 9.884  | 9.928  | HH | 944602  | 19329854 | 23.67%  | 0.562%                           |                                                              |
| 139    | 9.962  | 9.928  | 9.989  | HH | 884330  | 25966669 | 31.80%  | 0.754%                           |                                                              |
| 140    | 10.010 | 9.989  | 10.027 | HH | 595382  | 12828803 | 15.71%  | 0.373%                           |                                                              |
| 141    | 10.047 | 10.027 | 10.076 | HH | 700090  | 17647492 | 21.61%  | 0.513%                           |                                                              |

Page 3

Instrument :

FID\_F

ClientSampleId :

PT-DIES-SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024

Supervised By :Ankita Jodhani 10/25/2024



|     |        |        |        |    |         |          |                                  |        |
|-----|--------|--------|--------|----|---------|----------|----------------------------------|--------|
|     |        |        |        |    |         |          | Instrument :<br>FID_F            |        |
|     |        |        |        |    |         |          | ClientSampleId :<br>PT-DIES-SOIL |        |
| 195 | 12.803 | 12.797 | 12.823 | HH | 371197  | 5480628  | 6.71%                            | 0.159% |
| 196 | 12.853 | 12.823 | 12.859 | HH | 412149  | 8408883  | Manual IntegrationsAPPROVED      |        |
| 197 | 12.867 | 12.859 | 12.896 | HH | 414720  | 8512611  |                                  |        |
| 198 | 12.936 | 12.896 | 12.969 | HH | 1724160 | 33519210 |                                  |        |
| 199 | 12.992 | 12.969 | 13.037 | HH | 418449  | 15255072 |                                  |        |
| 200 | 13.045 | 13.037 | 13.059 | HH | 338188  | 4383032  |                                  |        |
| 201 | 13.072 | 13.059 | 13.129 | HH | 351638  | 13412732 | 16.42%                           | 0.390% |
| 202 | 13.146 | 13.129 | 13.159 | HH | 309092  | 5317979  | 6.51%                            | 0.154% |
| 203 | 13.181 | 13.159 | 13.197 | HH | 363771  | 7861102  | 9.63%                            | 0.228% |
| 204 | 13.213 | 13.197 | 13.235 | HH | 340719  | 7347759  | 9.00%                            | 0.213% |
| 205 | 13.250 | 13.235 | 13.266 | HH | 317969  | 5532181  | 6.77%                            | 0.161% |
| 206 | 13.286 | 13.266 | 13.305 | HH | 359454  | 7541653  | 9.24%                            | 0.219% |
| 207 | 13.323 | 13.305 | 13.332 | HH | 361823  | 5466549  | 6.69%                            | 0.159% |
| 208 | 13.359 | 13.332 | 13.393 | HH | 989319  | 21406783 | 26.21%                           | 0.622% |
| 209 | 13.417 | 13.393 | 13.501 | HH | 854406  | 25452607 | 31.17%                           | 0.739% |
| 210 | 13.544 | 13.501 | 13.568 | HH | 1171873 | 21907705 | 26.83%                           | 0.636% |
| 211 | 13.589 | 13.568 | 13.604 | HH | 345147  | 6848026  | 8.39%                            | 0.199% |
| 212 | 13.613 | 13.604 | 13.635 | HH | 301412  | 5157317  | 6.32%                            | 0.150% |
| 213 | 13.644 | 13.635 | 13.663 | HH | 258465  | 4276129  | 5.24%                            | 0.124% |
| 214 | 13.676 | 13.663 | 13.691 | HH | 239249  | 3875267  | 4.75%                            | 0.113% |
| 215 | 13.707 | 13.691 | 13.729 | HH | 247748  | 5291880  | 6.48%                            | 0.154% |
| 216 | 13.764 | 13.729 | 13.802 | HH | 313577  | 11592198 | 14.20%                           | 0.337% |
| 217 | 13.814 | 13.802 | 13.862 | HH | 261313  | 8645153  | 10.59%                           | 0.251% |
| 218 | 13.882 | 13.862 | 13.895 | HH | 236832  | 4574670  | 5.60%                            | 0.133% |
| 219 | 13.913 | 13.895 | 13.939 | HH | 249104  | 6051789  | 7.41%                            | 0.176% |
| 220 | 13.960 | 13.939 | 13.996 | HH | 271374  | 7791566  | 9.54%                            | 0.226% |
| 221 | 14.019 | 13.996 | 14.084 | HH | 238053  | 10998753 | 13.47%                           | 0.319% |
| 222 | 14.124 | 14.084 | 14.161 | HH | 784753  | 16339025 | 20.01%                           | 0.475% |
| 223 | 14.184 | 14.161 | 14.226 | HH | 216300  | 7578293  | 9.28%                            | 0.220% |
| 224 | 14.242 | 14.226 | 14.261 | HH | 180016  | 3674977  | 4.50%                            | 0.107% |
| 225 | 14.269 | 14.261 | 14.291 | HH | 166206  | 2847647  | 3.49%                            | 0.083% |
| 226 | 14.301 | 14.291 | 14.305 | HH | 157390  | 1316112  | 1.61%                            | 0.038% |
| 227 | 14.348 | 14.305 | 14.376 | HH | 207846  | 7731780  | 9.47%                            | 0.225% |
| 228 | 14.381 | 14.376 | 14.398 | HH | 164421  | 2141141  | 2.62%                            | 0.062% |
| 229 | 14.413 | 14.398 | 14.438 | HH | 171660  | 3904446  | 4.78%                            | 0.113% |
| 230 | 14.451 | 14.438 | 14.466 | HH | 161539  | 2626658  | 3.22%                            | 0.076% |
| 231 | 14.481 | 14.466 | 14.519 | HH | 181726  | 5339984  | 6.54%                            | 0.155% |
| 232 | 14.532 | 14.519 | 14.565 | HH | 164465  | 4241645  | 5.19%                            | 0.123% |
| 233 | 14.581 | 14.565 | 14.616 | HH | 139660  | 4172363  | 5.11%                            | 0.121% |
| 234 | 14.633 | 14.616 | 14.652 | HH | 139902  | 2903508  | 3.56%                            | 0.084% |
| 235 | 14.681 | 14.652 | 14.717 | HH | 464746  | 9271029  | 11.35%                           | 0.269% |
| 236 | 14.739 | 14.717 | 14.761 | HH | 139545  | 3502934  | 4.29%                            | 0.102% |
| 237 | 14.774 | 14.761 | 14.789 | HH | 134449  | 2232152  | 2.73%                            | 0.065% |
| 238 | 14.805 | 14.789 | 14.826 | HH | 142795  | 2897159  | 3.55%                            | 0.084% |
| 239 | 14.841 | 14.826 | 14.857 | HH | 125350  | 2235752  | 2.74%                            | 0.065% |
| 240 | 14.878 | 14.857 | 14.922 | HH | 132214  | 4637854  | 5.68%                            | 0.135% |
| 241 | 14.931 | 14.922 | 14.949 | HH | 115822  | 1860282  | 2.28%                            | 0.054% |
| 242 | 14.962 | 14.949 | 14.983 | HH | 121708  | 2319398  | 2.84%                            | 0.067% |
| 243 | 15.015 | 14.983 | 15.049 | HH | 242805  | 6099485  | 7.47%                            | 0.177% |
| 244 | 15.074 | 15.049 | 15.094 | HH | 112386  | 2752511  | 3.37%                            | 0.080% |
| 245 | 15.107 | 15.094 | 15.129 | HH | 98084   | 1980924  | 2.43%                            | 0.058% |
| 246 | 15.148 | 15.129 | 15.168 | HH | 87828   | 1992377  | 2.44%                            | 0.058% |



| rteres |        |        |        |     |        |         |       |        |
|--------|--------|--------|--------|-----|--------|---------|-------|--------|
| 247    | 15.182 | 15.168 | 15.190 | HH  | 82747  | 1075211 | 1.32% | 0.031% |
| 248    | 15.219 | 15.190 | 15.246 | HH  | 269150 | 5110784 |       |        |
| 249    | 15.262 | 15.246 | 15.287 | HH  | 87884  | 2044368 |       |        |
| 250    | 15.299 | 15.287 | 15.341 | HH  | 86136  | 2591583 |       |        |
| 251    | 15.351 | 15.341 | 15.359 | HH  | 75092  | 795106  |       |        |
| 252    | 15.363 | 15.359 | 15.381 | HH  | 75580  | 968664  |       |        |
| 253    | 15.407 | 15.381 | 15.437 | HH  | 77725  | 2468626 | 3.02% | 0.072% |
| 254    | 15.461 | 15.437 | 15.483 | HH  | 89417  | 2179589 | 2.67% | 0.063% |
| 255    | 15.487 | 15.483 | 15.515 | HH  | 68099  | 1288635 | 1.58% | 0.037% |
| 256    | 15.551 | 15.515 | 15.567 | HH  | 73032  | 2110715 | 2.58% | 0.061% |
| 257    | 15.592 | 15.567 | 15.634 | HH  | 170521 | 4004830 | 4.90% | 0.116% |
| 258    | 15.639 | 15.634 | 15.650 | HH  | 63706  | 603322  | 0.74% | 0.018% |
| 259    | 15.655 | 15.650 | 15.701 | HH  | 63189  | 1749980 | 2.14% | 0.051% |
| 260    | 15.735 | 15.701 | 15.767 | HH  | 155866 | 3503712 | 4.29% | 0.102% |
| 261    | 15.790 | 15.767 | 15.812 | HH  | 64311  | 1609610 | 1.97% | 0.047% |
| 262    | 15.817 | 15.812 | 15.847 | HH  | 55340  | 1063606 | 1.30% | 0.031% |
| 263    | 15.856 | 15.847 | 15.889 | HH  | 48555  | 1187761 | 1.45% | 0.035% |
| 264    | 15.920 | 15.889 | 15.944 | HH  | 49620  | 1556691 | 1.91% | 0.045% |
| 265    | 15.964 | 15.944 | 16.017 | HH  | 51541  | 2056949 | 2.52% | 0.060% |
| 266    | 16.050 | 16.017 | 16.080 | HH  | 47432  | 1636899 | 2.00% | 0.048% |
| 267    | 16.085 | 16.080 | 16.088 | HH  | 40899  | 188153  | 0.23% | 0.005% |
| 268    | 16.106 | 16.088 | 16.140 | HH  | 45222  | 1300705 | 1.59% | 0.038% |
| 269    | 16.163 | 16.140 | 16.201 | HH  | 38949  | 1386071 | 1.70% | 0.040% |
| 270    | 16.235 | 16.201 | 16.266 | HH  | 83522  | 1995443 | 2.44% | 0.058% |
| 271    | 16.273 | 16.266 | 16.279 | HH  | 35488  | 268298  | 0.33% | 0.008% |
| 272    | 16.296 | 16.279 | 16.312 | HH  | 38310  | 741879  | 0.91% | 0.022% |
| 273    | 16.326 | 16.312 | 16.379 | HH  | 34464  | 1283501 | 1.57% | 0.037% |
| 274    | 16.411 | 16.379 | 16.451 | HH  | 34715  | 1405765 | 1.72% | 0.041% |
| 275    | 16.457 | 16.451 | 16.504 | HH  | 32177  | 972616  | 1.19% | 0.028% |
| 276    | 16.526 | 16.504 | 16.532 | HH  | 30964  | 519684  | 0.64% | 0.015% |
| 277    | 16.542 | 16.532 | 16.572 | HH  | 31643  | 731545  | 0.90% | 0.021% |
| 278    | 16.602 | 16.572 | 16.645 | HH  | 50604  | 1549803 | 1.90% | 0.045% |
| 279    | 16.664 | 16.645 | 16.681 | HH  | 27772  | 583978  | 0.72% | 0.017% |
| 280    | 16.717 | 16.681 | 16.755 | HH  | 59965  | 1619359 | 1.98% | 0.047% |
| 281    | 16.780 | 16.755 | 16.827 | HH  | 31716  | 1180491 | 1.45% | 0.034% |
| 282    | 16.846 | 16.827 | 16.862 | HH  | 26214  | 518733  | 0.64% | 0.015% |
| 283    | 16.877 | 16.862 | 16.884 | HH  | 24957  | 325550  | 0.40% | 0.009% |
| 284    | 16.885 | 16.884 | 16.923 | HH  | 24765  | 555870  | 0.68% | 0.016% |
| 285    | 16.962 | 16.923 | 17.002 | HH  | 26277  | 1141820 | 1.40% | 0.033% |
| 286    | 17.016 | 17.002 | 17.040 | HH  | 24499  | 531510  | 0.65% | 0.015% |
| 287    | 17.076 | 17.040 | 17.122 | HH  | 24906  | 1104772 | 1.35% | 0.032% |
| 288    | 17.183 | 17.122 | 17.222 | HH  | 36811  | 1496602 | 1.83% | 0.043% |
| 289    | 17.260 | 17.222 | 17.301 | HHA | 66857  | 1596230 | 1.95% | 0.046% |

Sum of corrected areas: 3442503165

FF102124.M Sat Oct 26 03:53:58 2024



# SHIPPING DOCUMENTS

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# Packing List

6390 Joyce Dr., #100  
Golden, CO 80403

Tel: +1-303-940-0033  
Fax: +1-303-940-0043  
info@phenova.com  
www.phenova.com

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| Date       | Order # |
|------------|---------|
| 10/21/2024 | 318989  |



## Ship To

Alliance Tech Group - Newark  
ATTN: Sohil Jodhani  
284 Sheffield St., #1  
Mountainside, NJ 07092  
USA

| Customer PO # | Terms  | PT Acct # | Customer # | Ship Via      | F.O.B.     |
|---------------|--------|-----------|------------|---------------|------------|
| 240903-01     | Net 30 | ZCM-100   | 1500470    | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number      | Part Description              | Study Number | Lot Number |
|-------------|-------------|---------------|------------------|-------------------------------|--------------|------------|
| 1           | 1           | 0             | PT-MET-SOIL      | SOIL/HW Trace Metals          | HW1024       | 7098-04    |
| 1           | 1           | 0             | PT-CR6-SOIL      | SOIL/HW Hexavalent Chromium ✓ | HW1024       | 7098-05D   |
| 1           | 1           | 0             | PT-CN-SOIL       | SOIL/HW Cyanide               | HW1024       | 7098-06    |
| 1           | 1           | 0             | PT-CORR-SOIL     | SOIL/HW Corrosivity/pH ✓      | HW1024       | 7098-11    |
| 1           | 1           | 0             | PT-FP-SOIL       | SOIL/HW Flash Point           | HW1024       | 7098-10    |
| 1           | 1           | 0             | PT-AN-SOIL       | SOIL/HW Anions ✓              | HW1024       | 7098-08    |
| 1           | 1           | 0             | PT-NUT-SOIL      | SOIL/HW Nutrients ✓           | HW1024       | 7098-09B   |
| 1           | 1           | 0             | PT-SOL-SOIL      | SOIL/HW Solids                | HW1024       | 7098-31    |
| 1           | 1           | 0             | PT-NO2-SOIL      | SOIL/HW Nitrite as N          | HW1024       | 7098-71    |
| 1           | 1           | 0             | PT-GAS-SOIL      | SOIL/HW Gasoline              | HW1024       | 7098-96    |
| 1           | 1           | 0             | PT-DIES-SOIL     | SOIL/HW Diesel in Soil        | HW1024       | 7098-100   |
| 1           | 1           | 0             | PT-OGR-SOIL      | SOIL/HW Oil and Grease ✓      | HW1024       | 7098-94    |
| 1           | 1           | 0             | PT-VOA-SOIL      | SOIL/HW Volatiles             | HW1024       | 7098-12    |
| 1           | 1           | 0             | PT-BNA-SOIL      | SOIL/HW BNAs                  | HW1024       | 7098-13    |
| 1           | 1           | 0             | PT-PEST-SOIL     | SOIL/HW Pesticides            | HW1024       | 7098-14    |
| 1           | 1           | 0             | PT-CHLR-SOIL     | SOIL/HW Chlordane             | HW1024       | 7098-15    |
| 1           | 1           | 0             | PT-TXP-SOIL      | SOIL/HW Toxaphene             | HW1024       | 7098-16    |
| 1           | 1           | 0             | PT-PCB-SOIL      | SOIL/HW PCBs                  | HW1024       | 7098-17    |
| 1           | 1           | 0             | PT-PCBO-SOIL     | SOIL/HW PCBs in Oil           | HW1024       | 7098-88    |
| 1           | 1           | 0             | PT-HERB-SOIL     | SOIL/HW Herbicides            | HW1024       | 7098-18    |
| 1           | 1           | 0             | PT-PAH-SOIL      | SOIL/HW PAHs                  | HW1024       | 7098-22    |
| 1           | 1           | 0             | PT-TRIAZINE-SOIL | SOIL/HW Triazine Pesticides   | HW1024       | 7098-106   |

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Tel: +1-303-940-0033  
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## Packing List

| Date       | Order # |
|------------|---------|
| 10/21/2024 | 318989  |



### Ship To

Alliance Tech Group - Newark  
ATTN: Sohil Jodhani  
284 Sheffield St., #1  
Mountainside, NJ 07092  
USA

| Customer PO # | Terms  | PT Acct # | Customer # | Ship Via      | F.O.B.     |
|---------------|--------|-----------|------------|---------------|------------|
| 240903-01     | Net 30 | ZCM-100   | 1500470    | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number   | Part Description  | Study Number | Lot Number |
|-------------|-------------|---------------|---------------|-------------------|--------------|------------|
| 1           | 1           | 0             | PT-NJEPH-SOIL | NJ EPH in SOIL ✓✓ | HW1024       | 7098-105   |

**Laboratory Certification**

| Certified By         | License No.      |
|----------------------|------------------|
|                      |                  |
| CAS EPA CLP Contract | 68HERH20D0011    |
|                      |                  |
| Connecticut          | PH-0830          |
|                      |                  |
| DOD ELAP (ANAB)      | L2219            |
|                      |                  |
| Maine                | 2024021          |
|                      |                  |
| Maryland             | 296              |
|                      |                  |
| New Hampshire        | 255424 Rev 1     |
|                      |                  |
| New Jersey           | 20012            |
|                      |                  |
| New York             | 11376            |
|                      |                  |
| Pennsylvania         | 68-00548         |
|                      |                  |
| Soil Permit          | 525-24-234-08441 |
|                      |                  |
| Texas                | T104704488       |