284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

# DATA REPORTING QUALIFIERS- ORGANIC

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

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

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4860 | **OrderDate:** | 11/14/2024 1:36:41 PM |
| **Client:** | Tetra Tech | **Project:** | Ocean County Landfill 2024 |
| **Contact:** | John Giuliano | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4860-01** | **DUP-01** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/18/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-02** | **PH2-BOT-001** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/18/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-03** | **PH2-BOT-002** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-04** | **PH2-BOT-003** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-05** | **PH2-BOT-004** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-06** | **PH2-BOT-009** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-07** | **PH2-BOT-008** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-08** | **PH2-BOT-007** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-09** | **PH2-BOT-006** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-10** | **PH2-BOT-005** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |

# QC
# SUMMARY

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# SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM CASE No.: P4860 SAS No.: P4860 SDG No.: P4860

Run Number: FC111824AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | | | TOT OUT |
|---|---|---|---|---|
| EX-4-TPH-6MS | 78 | | | 0 |
| EX-4-TPH-6MSD | 77 | | | 0 |
| PH2-BOT-002 | 76 | | | 0 |
| PH2-BOT-003 | 58 | | | 0 |
| PH2-BOT-004 | 52 | | | 0 |
| PH2-BOT-009 | 55 | | | 0 |
| PB165032BL | 75 | | | 0 |
| PB165032BS | 65 | | | 0 |
| PB165032BSD | 64 | | | 0 |

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |

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

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM CASE No.: P4860 SAS No.: P4860 SDG No.: P4860

Run Number: FD111824AR

| Client SAMPLE NO. | 2-Bromonaphthalene (SURR) | 2-Flurobiphenyl (SURR) | ortho-Terphenyl (SURR) | TOT OUT |
|---|---|---|---|---|
| EX-4-TPH-6MS | 102 | 101 | 78 | 0 |
| EX-4-TPH-6MSD | 102 | 101 | 77 | 0 |
| DUP-01 | 105 | 108 | 57 | 0 |
| PH2-BOT-001 | 115 | 118 | 67 | 0 |
| PH2-BOT-002 | 94 | 81 | 77 | 0 |
| PH2-BOT-003 | 98 | 99 | 44 | 0 |
| PH2-BOT-004 | 116 | 112 | 64 | 0 |
| PH2-BOT-009 | 90 | 87 | 55 | 0 |
| PB165032BL | 104 | 102 | 96 | 0 |
| PB165032BS | 92 | 84 | 79 | 0 |
| PB165032BSD | 94 | 85 | 80 | 0 |

| | QC LIMITS |
|---|---|
| 2-Bromonaphthalene (SURR) | (40-140) |
| 2-Flurobiphenyl (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

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

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM CASE No.: P4860 SAS No.: P4860 SDG No.: P4860

Run Number: FF111924AR

| Client SAMPLE NO. | 2-Bromonaphthalene (SURR) | 2-Flurobiphenyl (SURR) | ortho-Terphenyl (SURR) | TOT OUT |
|---|---|---|---|---|
| PH2-BOT-008 | 102 | 91 | 80 | 0 |
| PH2-BOT-007 | 104 | 97 | 49 | 0 |
| PH2-BOT-006 | 104 | 100 | 57 | 0 |
| PH2-BOT-005 | 105 | 96 | 57 | 0 |

| | QC LIMITS |
|---|---|
| 2-Bromonaphthalene (SURR) | (40-140) |
| 2-Flurobiphenyl (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

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

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM CASE No.: P4860 SAS No.: P4860 SDG No.: P4860

Run Number: FG111924AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | | | TOT OUT |
|---|---|---|---|---|
| DUP-01 | 68 | | | 0 |
| PH2-BOT-001 | 85 | | | 0 |
| PH2-BOT-008 | 81 | | | 0 |
| PH2-BOT-007 | 63 | | | 0 |
| PH2-BOT-006 | 69 | | | 0 |
| PH2-BOT-005 | 68 | | | 0 |

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |

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

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**SOIL EPH SURROGATE RECOVERY**

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |

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

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** P4839-22MS **Datafile:** FC067811.D

**Client ID :** EX-4-TPH-6MS

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 11.2 | 0.72 | 7.95 | 65 | | (40-140) |
| Aliphatic C12-C16 | 7.4 | 0.90 | 7.89 | 94 | | (40-140) |
| Aliphatic C16-C21 | 11.2 | 0 | 10.9 | 98 | | (40-140) |
| Aliphatic C21-C28 | 14.9 | 0 | 14.1 | 95 | | (40-140) |
| Aliphatic C28-C40 | 22.3 | 7.11 | 26.5 | 87 | | (40-140) |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** P4839-22MSD **Datafile:** FC067812.D

**Client ID :** EX-4-TPH-6MSD

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 11.2 | 0.72 | 7.66 | 62 | | 4.09 \| | (40-140) | 25 |
| Aliphatic C12-C16 | 7.4 | 0.90 | 7.36 | 87 | | 7.74 \| | (40-140) | 25 |
| Aliphatic C16-C21 | 11.2 | 0 | 10.6 | 95 | | 2.8 \| | (40-140) | 25 |
| Aliphatic C21-C28 | 14.9 | 0 | 13.8 | 93 | | 2.03 \| | (40-140) | 25 |
| Aliphatic C28-C40 | 22.3 | 7.11 | 26.0 | 85 | | 2.45 \| | (40-140) | 25 |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** P4839-22MS **Datafile:** FD048770.D

**Client ID :** EX-4-TPH-6MS

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 7.4 | 0 | 6.32 | 85 | | (40-140) |
| Aromatic C12-C16 | 11.2 | 0.53 | 14.1 | 121 | | (40-140) |
| Aromatic C16-C21 | 18.6 | 1.10 | 23.4 | 119 | | (40-140) |
| Aromatic C21-C36 | 29.8 | 0 | 37.8 | 126 | | (40-140) |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** P4839-22MSD **Datafile:** FD048771.D

**Client ID :** EX-4-TPH-6MSD

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 7.4 | 0 | 6.28 | 84 | | 0.59 \| | (40-140) | 25 |
| Aromatic C12-C16 | 11.2 | 0.53 | 15.1 | 130 | | 7.17 \| | (40-140) | 25 |
| Aromatic C16-C21 | 18.6 | 1.10 | 22.7 | 116 | | 2.55 \| | (40-140) | 25 |
| Aromatic C21-C36 | 29.7 | 0 | 37.6 | 126 | | 0 \| | (40-140) | 25 |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** PB165032BS **Datafile:** FC067808.D

**Client ID :** PB165032BS

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 10 | 6.39 | 64 | | (40-140) |
| Aliphatic C12-C16 | 6.7 | 5.31 | 80 | | (40-140) |
| Aliphatic C16-C21 | 10 | 8.07 | 81 | | (40-140) |
| Aliphatic C21-C28 | 13.3 | 10.4 | 78 | | (40-140) |
| Aliphatic C28-C40 | 20.0 | 17.7 | 89 | | (40-140) |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** PB165032BSD **Datafile:** FC067809.D

**Client ID :** PB165032BSD

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 10 | 6.37 | 64 | | 0.214\| (40-140) | 50 |
| Aliphatic C12-C16 | 6.7 | 5.32 | 80 | | 0.22\| (40-140) | 50 |
| Aliphatic C16-C21 | 10 | 8.08 | 81 | | 0.09\| (40-140) | 50 |
| Aliphatic C21-C28 | 13.3 | 10.4 | 78 | | 0.0281\|(40-140) | 50 |
| Aliphatic C28-C40 | 20.0 | 17.7 | 89 | | 0.0129\|(40-140) | 50 |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** PB165032BS **Datafile:** FD048767.D

**Client ID :** PB165032BS

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 6.7 | 5.16 | 78 | | (40-140) |
| Aromatic C12-C16 | 10 | 9.14 | 92 | | (40-140) |
| Aromatic C16-C21 | 16.7 | 16.7 | 100 | | (40-140) |
| Aromatic C21-C36 | 26.6 | 26.3 | 99 | | (40-140) |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** PB165032BSD **Datafile:** FD048768.D

**Client ID :** PB165032BSD

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 6.7 | 5.24 | 79 | | 1.5\| | (40-140) | 50 |
| Aromatic C12-C16 | 10 | 9.30 | 93 | | 1.7\| | (40-140) | 50 |
| Aromatic C16-C21 | 16.7 | 17.0 | 102 | | 2.1\| | (40-140) | 50 |
| Aromatic C21-C36 | 26.6 | 26.7 | 100 | | 1.5\| | (40-140) | 50 |

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165032BL

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Instrument ID: FID_C Lab Sample ID: PB165032BL

Matrix: (soil/water) Solid Date Extracted: 11/16/2024 9:30:00

Level: (low/med) low

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

| EPA SAMPLE NO. | LAB SAMPLE ID |
|---|---|
| PB165032BS | PB165032BS |
| PB165032BSD | PB165032BSD |
| EX-4-TPH-6MS | P4839-22MS |
| EX-4-TPH-6MSD | P4839-22MSD |
| DUP-01 | P4860-01 |
| PH2-BOT-001 | P4860-02 |
| PH2-BOT-002 | P4860-03 |
| PH2-BOT-003 | P4860-04 |
| PH2-BOT-004 | P4860-05 |
| PH2-BOT-009 | P4860-06 |
| PH2-BOT-008 | P4860-07 |
| PH2-BOT-007 | P4860-08 |
| PH2-BOT-006 | P4860-09 |
| PH2-BOT-005 | P4860-10 |

COMMENTS:

Alliance
TECHNICAL GROUP

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.1 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 13:12 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.03 | mg/kg | FG014868.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.30 | J | 1 | 0.25 | 0.69 | mg/kg | FG014868.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.37 | J | 1 | 0.31 | 1.03 | mg/kg | FG014868.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.82 | U | 1 | 0.82 | 1.37 | mg/kg | FG014868.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.89 | J | 1 | 1.85 | 2.06 | mg/kg | FG014868.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.69 | mg/kg | FD048760.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.41 | J | 1 | 0.35 | 1.03 | mg/kg | FD048760.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.28 | J | 1 | 0.99 | 1.72 | mg/kg | FD048760.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.31 | J | 1 | 2.06 | 2.75 | mg/kg | FD048760.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.62 | U | | 3.62 | 6.18 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 4.00 | J | | 3.71 | 6.19 | mg/kg | |
| Total EPH | Total EPH | 7.33 | U | | 7.33 | 12.4 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | 11/14/24 | |
| Project: | Ocean County Landfill 2024 | | Date Received: | 11/14/24 | |
| Client Sample ID: | DUP-01 | | SDG No.: | P4860 | |
| Lab Sample ID: | P4860-01 | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 96.8 | |
| Sample Wt/Vol: | 30.1 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048760.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.69 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.41 | J | 0.35 | 1.03 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.28 | J | 0.99 | 1.72 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.31 | J | 2.06 | 2.75 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 52.4 | | 40 - 140 | 105% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 54.1 | | 40 - 140 | 108% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 28.6 | | 40 - 140 | 57% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-01 | Acq On: | 18 Nov 2024 10:38 |
| Client Sample ID: | DUP-01 | Operator: | YP/AJ |
| Data file: | FD048760.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 63 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 728652 | 3.795 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 1136633 | 5.906 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 3469775 | 18.674 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 5289666 | 33.643 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 10624726 | 62.017 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.367 | 7.367 | 9232725 | 52.44 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.217 | 8.217 | 6235407 | 54.14 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.251 | 11.251 | 5492809 | 28.56 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048760.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:38
Operator : YP/AJ
Sample : P4860-01
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
DUP-01

Integration File: sample.E
Quant Time: Nov 19 05:55:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 4) S 2-Bromonaphthalene (S... | 7.367 | 9232725 | 52.441 ug/ml |
| Spiked Amount 50.000 | | Recovery = 104.88% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.217 | 6235407 | 54.141 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 108.28% | |
| 11) S ortho-Terphenyl (SURR) | 11.251 | 5492809 | 28.558 ug/ml |
| Spiked Amount 50.000 | | Recovery = 57.12% | |
| Target Compounds | | | |

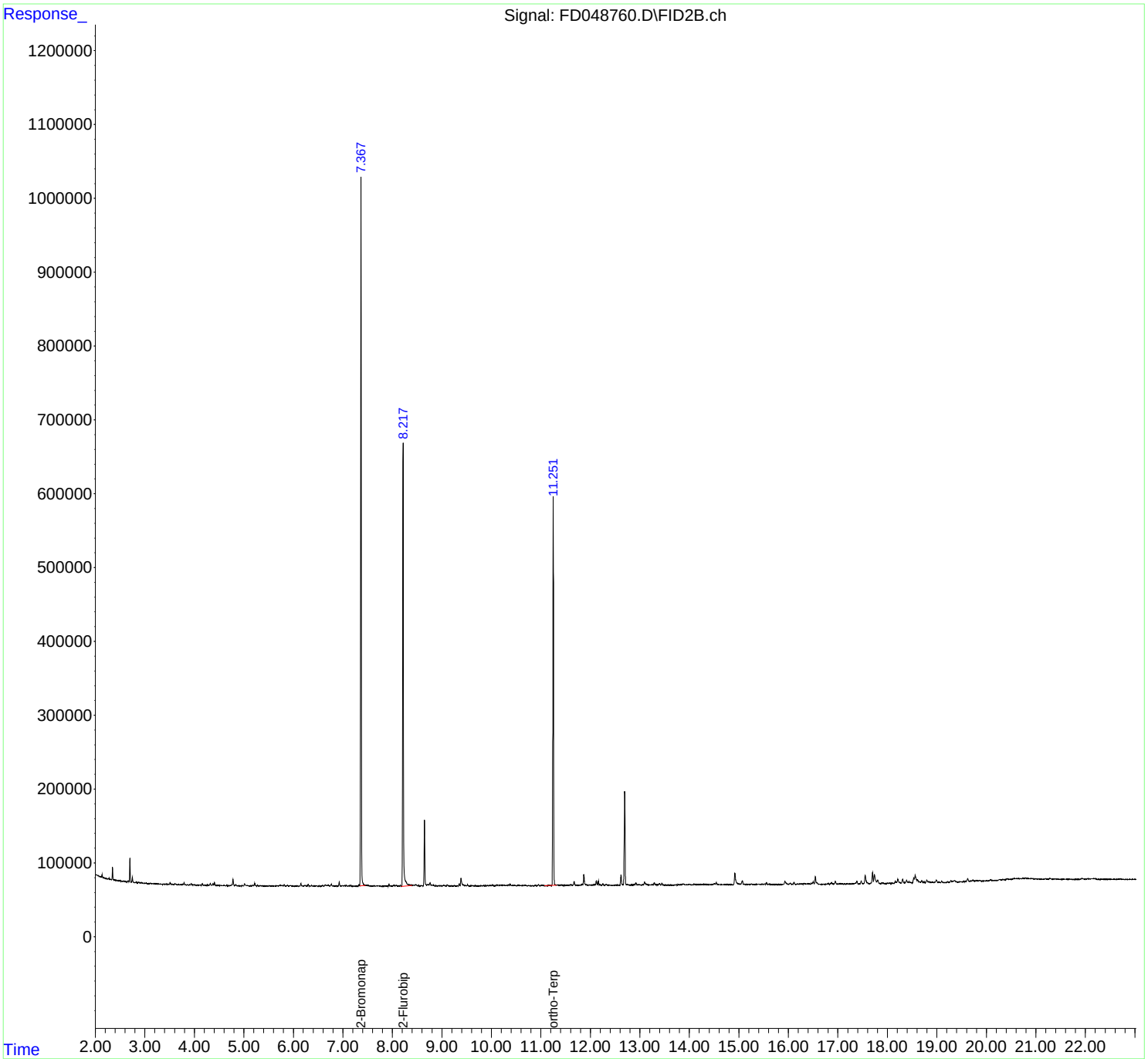
(f)=RT Delta > 1/2 Window (m)=manual int.

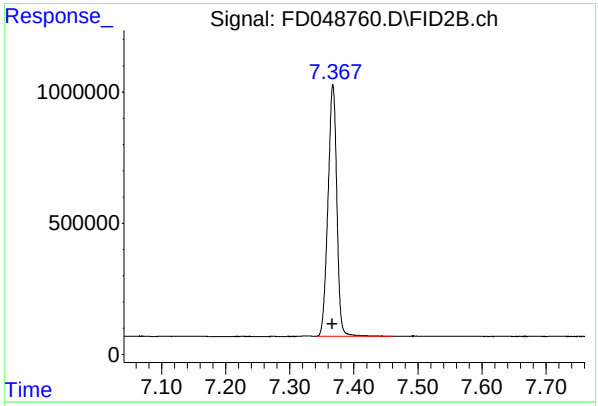
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048760.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:38
Operator : YP/AJ
Sample : P4860-01
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
DUP-01

Integration File: sample.E
Quant Time: Nov 19 05:55:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

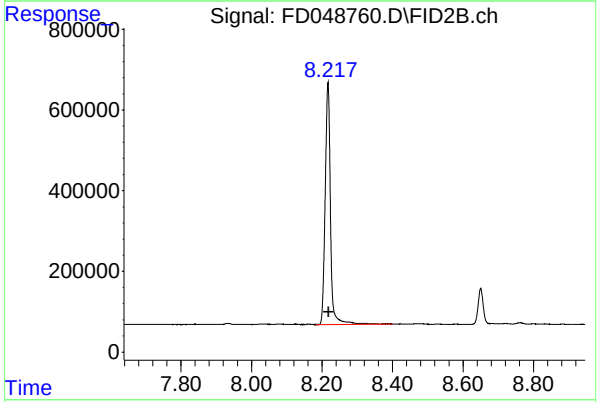





#4 2-Bromonaphthalene (SURR)

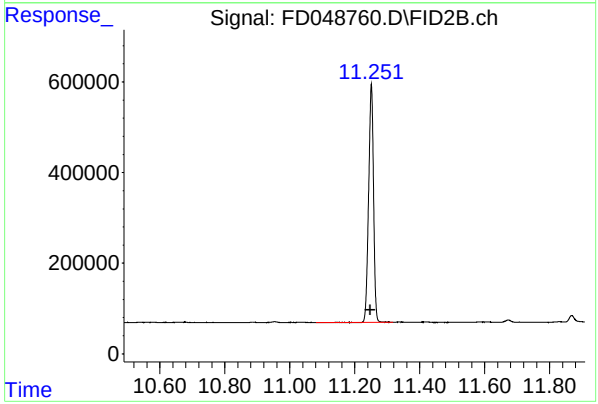
R.T.: 7.367 min
Delta R.T.: 0.000 min
Response: 9232725
Conc: 52.44 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
DUP-01




#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: -0.002 min
Response: 6235407
Conc: 54.14 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.251 min
Delta R.T.: 0.003 min
Response: 5492809
Conc: 28.56 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048760.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:38
Sample : P4860-01
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.058 | 4.042 | 4.070 | BV | 371 | 1937 | 0.02% | 0.006% |
| 2 | 4.094 | 4.084 | 4.100 | PV | 221 | 1581 | 0.02% | 0.005% |
| 3 | 4.117 | 4.100 | 4.140 | VV | 703 | 9613 | 0.10% | 0.030% |
| 4 | 4.160 | 4.140 | 4.187 | VV | 2700 | 30943 | 0.33% | 0.098% |
| 5 | 4.194 | 4.187 | 4.212 | VV | 541 | 5319 | 0.06% | 0.017% |
| 6 | 4.218 | 4.212 | 4.246 | VV | 285 | 4083 | 0.04% | 0.013% |
| 7 | 4.267 | 4.246 | 4.298 | VV | 911 | 13961 | 0.15% | 0.044% |
| 8 | 4.323 | 4.298 | 4.344 | VV | 3338 | 39159 | 0.42% | 0.123% |
| 9 | 4.355 | 4.344 | 4.360 | VV | 648 | 5462 | 0.06% | 0.017% |
| 10 | 4.378 | 4.360 | 4.390 | VV | 2942 | 30161 | 0.32% | 0.095% |
| 11 | 4.407 | 4.390 | 4.448 | VV | 4306 | 45099 | 0.48% | 0.142% |
| 12 | 4.454 | 4.448 | 4.467 | PV | 306 | 2304 | 0.02% | 0.007% |
| 13 | 4.479 | 4.467 | 4.508 | VV | 564 | 9251 | 0.10% | 0.029% |
| 14 | 4.520 | 4.508 | 4.554 | VV | 860 | 10958 | 0.12% | 0.035% |
| 15 | 4.556 | 4.554 | 4.574 | VV | 391 | 2754 | 0.03% | 0.009% |
| 16 | 4.592 | 4.574 | 4.629 | VV | 854 | 12558 | 0.13% | 0.040% |
| 17 | 4.635 | 4.629 | 4.642 | VV | 284 | 1889 | 0.02% | 0.006% |
| 18 | 4.652 | 4.642 | 4.674 | VV | 367 | 4315 | 0.05% | 0.014% |
| 19 | 4.701 | 4.674 | 4.716 | VV | 781 | 9642 | 0.10% | 0.030% |
| 20 | 4.724 | 4.716 | 4.729 | VV | 413 | 2612 | 0.03% | 0.008% |
| 21 | 4.731 | 4.729 | 4.739 | VV | 476 | 2278 | 0.02% | 0.007% |
| 22 | 4.759 | 4.739 | 4.764 | VV | 2087 | 18517 | 0.20% | 0.058% |
| 23 | 4.780 | 4.764 | 4.815 | VV | 9117 | 109329 | 1.18% | 0.345% |
| 24 | 4.837 | 4.815 | 4.866 | VV | 2170 | 26582 | 0.29% | 0.084% |
| 25 | 4.871 | 4.866 | 4.885 | VV | 468 | 4451 | 0.05% | 0.014% |
| 26 | 4.890 | 4.885 | 4.896 | VV | 440 | 2397 | 0.03% | 0.008% |
| 27 | 4.900 | 4.896 | 4.920 | VV | 480 | 4502 | 0.05% | 0.014% |
| 28 | 4.947 | 4.930 | 4.952 | VV | 218 | 1410 | 0.02% | 0.004% |
| 29 | 4.970 | 4.952 | 4.996 | PV | 674 | 9437 | 0.10% | 0.030% |
| 30 | 5.014 | 4.996 | 5.057 | VV | 3365 | 53000 | 0.57% | 0.167% |
| 31 | 5.063 | 5.057 | 5.114 | VV | 677 | 16086 | 0.17% | 0.051% |
| 32 | 5.119 | 5.114 | 5.122 | VV | 320 | 1516 | 0.02% | 0.005% |
| 33 | 5.127 | 5.122 | 5.132 | VV | 474 | 2116 | 0.02% | 0.007% |
| 34 | 5.146 | 5.132 | 5.162 | VV | 546 | 6944 | 0.07% | 0.022% |
| 35 | 5.184 | 5.162 | 5.200 | VV | 1410 | 16839 | 0.18% | 0.053% |
| 36 | 5.221 | 5.200 | 5.240 | VV | 3895 | 42829 | 0.46% | 0.135% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.246 | 5.240 | 5.259 | VV | 539 | 4957 | 0.05% | 0.016% |
| 38 | 5.275 | 5.259 | 5.305 | VV | 1319 | 19520 | 0.21% | 0.062% |
| 39 | 5.321 | 5.305 | 5.330 | VV | 579 | 6375 | 0.07% | 0.020% |
| 40 | 5.339 | 5.330 | 5.359 | VV | 800 | 11213 | 0.12% | 0.035% |
| 41 | 5.363 | 5.359 | 5.387 | VV | 698 | 7028 | 0.08% | 0.022% |
| 42 | 5.392 | 5.387 | 5.395 | VV | 318 | 1285 | 0.01% | 0.004% |
| 43 | 5.399 | 5.395 | 5.416 | VV | 314 | 3170 | 0.03% | 0.010% |
| 44 | 5.426 | 5.416 | 5.440 | VV | 415 | 4187 | 0.05% | 0.013% |
| 45 | 5.445 | 5.440 | 5.450 | VV | 304 | 1426 | 0.02% | 0.004% |
| 46 | 5.470 | 5.450 | 5.485 | VV | 717 | 8216 | 0.09% | 0.026% |
| 47 | 5.514 | 5.496 | 5.539 | VV | 697 | 11029 | 0.12% | 0.035% |
| 48 | 5.547 | 5.539 | 5.566 | VV | 403 | 5374 | 0.06% | 0.017% |
| 49 | 5.573 | 5.566 | 5.578 | VV | 483 | 2291 | 0.02% | 0.007% |
| 50 | 5.585 | 5.578 | 5.591 | VV | 434 | 2618 | 0.03% | 0.008% |
| 51 | 5.597 | 5.591 | 5.610 | VV | 427 | 3228 | 0.03% | 0.010% |
| 52 | 5.625 | 5.610 | 5.639 | VV | 600 | 6026 | 0.06% | 0.019% |
| 53 | 5.644 | 5.639 | 5.648 | VV | 483 | 2155 | 0.02% | 0.007% |
| 54 | 5.656 | 5.648 | 5.662 | VV | 692 | 4381 | 0.05% | 0.014% |
| 55 | 5.672 | 5.662 | 5.692 | VV | 774 | 10487 | 0.11% | 0.033% |
| 56 | 5.699 | 5.692 | 5.712 | VV | 589 | 6107 | 0.07% | 0.019% |
| 57 | 5.734 | 5.712 | 5.754 | VV | 1522 | 27183 | 0.29% | 0.086% |
| 58 | 5.770 | 5.754 | 5.787 | VV | 1508 | 20499 | 0.22% | 0.065% |
| 59 | 5.814 | 5.787 | 5.858 | VV | 2564 | 39955 | 0.43% | 0.126% |
| 60 | 5.877 | 5.858 | 5.910 | VV | 1398 | 25447 | 0.27% | 0.080% |
| 61 | 5.945 | 5.910 | 5.985 | VV | 1140 | 29173 | 0.31% | 0.092% |
| 62 | 5.993 | 5.985 | 6.010 | VV | 672 | 5807 | 0.06% | 0.018% |
| 63 | 6.024 | 6.010 | 6.029 | VV | 612 | 4677 | 0.05% | 0.015% |
| 64 | 6.036 | 6.029 | 6.041 | VV | 569 | 3268 | 0.04% | 0.010% |
| 65 | 6.044 | 6.041 | 6.074 | VV | 510 | 7823 | 0.08% | 0.025% |
| 66 | 6.084 | 6.074 | 6.104 | VV | 523 | 6216 | 0.07% | 0.020% |
| 67 | 6.118 | 6.104 | 6.125 | VV | 390 | 4410 | 0.05% | 0.014% |
| 68 | 6.152 | 6.125 | 6.178 | VV | 3806 | 45981 | 0.49% | 0.145% |
| 69 | 6.189 | 6.178 | 6.204 | VV | 658 | 8256 | 0.09% | 0.026% |
| 70 | 6.210 | 6.204 | 6.214 | VV | 452 | 2735 | 0.03% | 0.009% |
| 71 | 6.234 | 6.214 | 6.259 | VV | 1688 | 23165 | 0.25% | 0.073% |
| 72 | 6.271 | 6.259 | 6.284 | VV | 937 | 9413 | 0.10% | 0.030% |
| 73 | 6.301 | 6.284 | 6.323 | VV | 2936 | 33845 | 0.36% | 0.107% |
| 74 | 6.332 | 6.323 | 6.351 | VV | 1040 | 9292 | 0.10% | 0.029% |
| 75 | 6.371 | 6.351 | 6.394 | PV | 1665 | 18099 | 0.19% | 0.057% |
| 76 | 6.399 | 6.394 | 6.404 | VV | 453 | 2171 | 0.02% | 0.007% |
| 77 | 6.413 | 6.404 | 6.417 | VV | 463 | 3324 | 0.04% | 0.010% |
| 78 | 6.421 | 6.417 | 6.427 | VV | 499 | 2682 | 0.03% | 0.008% |
| 79 | 6.431 | 6.427 | 6.452 | VV | 499 | 5948 | 0.06% | 0.019% |
| 80 | 6.475 | 6.452 | 6.500 | VV | 871 | 13945 | 0.15% | 0.044% |
| 81 | 6.522 | 6.500 | 6.563 | VV | 746 | 13611 | 0.15% | 0.043% |
| 82 | 6.590 | 6.563 | 6.614 | VV | 1539 | 21690 | 0.23% | 0.068% |
| 83 | 6.642 | 6.614 | 6.659 | VV | 2313 | 33234 | 0.36% | 0.105% |
| 84 | 6.664 | 6.659 | 6.678 | VV | 1439 | 14332 | 0.15% | 0.045% |
| 85 | 6.689 | 6.678 | 6.698 | VV | 1796 | 18101 | 0.19% | 0.057% |
| 86 | 6.707 | 6.698 | 6.731 | VV | 1872 | 24782 | 0.27% | 0.078% |
| 87 | 6.767 | 6.731 | 6.794 | VV | 2809 | 46429 | 0.50% | 0.146% |
| 88 | 6.804 | 6.794 | 6.830 | VV | 815 | 11839 | 0.13% | 0.037% |
| 89 | 6.849 | 6.830 | 6.860 | VV | 724 | 9918 | 0.11% | 0.031% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 6.872 | 6.860 | 6.903 | VV | 933 | 12768 | 0.14% | 0.040% |
| 91 | 6.927 | 6.903 | 6.955 | VV | 5959 | 65665 | 0.71% | 0.207% |
| 92 | 6.958 | 6.955 | 6.963 | VV | 474 | 1664 | 0.02% | 0.005% |
| 93 | 6.988 | 6.963 | 7.018 | VV | 1217 | 24253 | 0.26% | 0.076% |
| 94 | 7.036 | 7.018 | 7.050 | VV | 1365 | 16628 | 0.18% | 0.052% |
| 95 | 7.070 | 7.050 | 7.088 | VV | 1627 | 22787 | 0.24% | 0.072% |
| 96 | 7.101 | 7.088 | 7.115 | VV | 694 | 8722 | 0.09% | 0.027% |
| 97 | 7.133 | 7.115 | 7.143 | VV | 1244 | 15101 | 0.16% | 0.048% |
| 98 | 7.158 | 7.143 | 7.200 | VV | 1493 | 21418 | 0.23% | 0.068% |
| 99 | 7.227 | 7.200 | 7.253 | VV | 644 | 9621 | 0.10% | 0.030% |
| 100 | 7.273 | 7.253 | 7.286 | PV | 529 | 5869 | 0.06% | 0.019% |
| 101 | 7.299 | 7.286 | 7.308 | VV | 421 | 4550 | 0.05% | 0.014% |
| 102 | 7.326 | 7.308 | 7.340 | VV | 2713 | 29997 | 0.32% | 0.095% |
| 103 | 7.367 | 7.340 | 7.460 | VV | 960609 | 9303893 | 100.00% | 29.331% |
| 104 | 7.471 | 7.460 | 7.476 | VV | 1439 | 13155 | 0.14% | 0.041% |
| 105 | 7.494 | 7.476 | 7.547 | VV | 1662 | 45309 | 0.49% | 0.143% |
| 106 | 7.553 | 7.547 | 7.571 | VV | 681 | 8435 | 0.09% | 0.027% |
| 107 | 7.589 | 7.571 | 7.612 | VV | 766 | 13415 | 0.14% | 0.042% |
| 108 | 7.632 | 7.612 | 7.649 | VV | 1270 | 15967 | 0.17% | 0.050% |
| 109 | 7.687 | 7.649 | 7.699 | VV | 811 | 13844 | 0.15% | 0.044% |
| 110 | 7.722 | 7.699 | 7.747 | VV | 697 | 14107 | 0.15% | 0.044% |
| 111 | 7.751 | 7.747 | 7.756 | VV | 478 | 2043 | 0.02% | 0.006% |
| 112 | 7.760 | 7.756 | 7.777 | VV | 384 | 3906 | 0.04% | 0.012% |
| 113 | 7.787 | 7.777 | 7.812 | VV | 367 | 5107 | 0.05% | 0.016% |
| 114 | 7.840 | 7.812 | 7.879 | VV | 922 | 21316 | 0.23% | 0.067% |
| 115 | 7.884 | 7.879 | 7.887 | VV | 362 | 1431 | 0.02% | 0.005% |
| 116 | 7.894 | 7.887 | 7.914 | VV | 588 | 6562 | 0.07% | 0.021% |
| 117 | 7.932 | 7.914 | 7.955 | VV | 3158 | 36775 | 0.40% | 0.116% |
| 118 | 7.963 | 7.955 | 7.979 | VV | 661 | 7444 | 0.08% | 0.023% |
| 119 | 7.986 | 7.979 | 8.004 | VV | 411 | 5056 | 0.05% | 0.016% |
| 120 | 8.025 | 8.004 | 8.060 | VV | 1314 | 28258 | 0.30% | 0.089% |
| 121 | 8.082 | 8.060 | 8.099 | VV | 1351 | 21514 | 0.23% | 0.068% |
| 122 | 8.125 | 8.099 | 8.145 | VV | 979 | 14123 | 0.15% | 0.045% |
| 123 | 8.162 | 8.145 | 8.185 | VV | 984 | 11606 | 0.12% | 0.037% |
| 124 | 8.217 | 8.185 | 8.309 | VV | 599608 | 6211758 | 66.77% | 19.583% |
| 125 | 8.314 | 8.309 | 8.366 | VV | 2748 | 73756 | 0.79% | 0.233% |
| 126 | 8.388 | 8.366 | 8.402 | VV | 1825 | 34893 | 0.38% | 0.110% |
| 127 | 8.420 | 8.402 | 8.428 | VV | 1608 | 22468 | 0.24% | 0.071% |
| 128 | 8.436 | 8.428 | 8.450 | VV | 1531 | 18245 | 0.20% | 0.058% |
| 129 | 8.468 | 8.450 | 8.472 | VV | 2013 | 21035 | 0.23% | 0.066% |
| 130 | 8.476 | 8.472 | 8.513 | VV | 2019 | 33040 | 0.36% | 0.104% |
| 131 | 8.529 | 8.513 | 8.555 | VV | 1282 | 19631 | 0.21% | 0.062% |
| 132 | 8.582 | 8.555 | 8.609 | VV | 1006 | 20873 | 0.22% | 0.066% |
| 133 | 8.650 | 8.609 | 8.677 | VV | 89514 | 908841 | 9.77% | 2.865% |
| 134 | 8.683 | 8.677 | 8.700 | VV | 2465 | 29250 | 0.31% | 0.092% |
| 135 | 8.721 | 8.700 | 8.740 | VV | 2864 | 49414 | 0.53% | 0.156% |
| 136 | 8.762 | 8.740 | 8.786 | VV | 4647 | 72400 | 0.78% | 0.228% |
| 137 | 8.799 | 8.786 | 8.819 | VV | 1880 | 30037 | 0.32% | 0.095% |
| 138 | 8.832 | 8.819 | 8.860 | VV | 1609 | 23137 | 0.25% | 0.073% |
| 139 | 8.884 | 8.860 | 8.898 | VV | 1007 | 13816 | 0.15% | 0.044% |
| 140 | 8.903 | 8.898 | 8.911 | VV | 600 | 3346 | 0.04% | 0.011% |
| 141 | 8.942 | 8.911 | 8.952 | VV | 738 | 13453 | 0.14% | 0.042% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 8.962 | 8.952 | 8.976 | VV | 782 | 9336 | 0.10% | 0.029% |
| 143 | 8.982 | 8.976 | 9.003 | VV | 741 | 7160 | 0.08% | 0.023% |
| 144 | 9.035 | 9.003 | 9.042 | VV | 1040 | 16307 | 0.18% | 0.051% |
| 145 | 9.048 | 9.042 | 9.067 | VV | 951 | 10549 | 0.11% | 0.033% |
| 146 | 9.073 | 9.067 | 9.090 | VV | 491 | 5408 | 0.06% | 0.017% |
| 147 | 9.107 | 9.090 | 9.159 | VV | 2082 | 34328 | 0.37% | 0.108% |
| 148 | 9.164 | 9.159 | 9.169 | VV | 424 | 1788 | 0.02% | 0.006% |
| 149 | 9.186 | 9.169 | 9.204 | VV | 563 | 8462 | 0.09% | 0.027% |
| 150 | 9.207 | 9.204 | 9.219 | VV | 428 | 3117 | 0.03% | 0.010% |
| 151 | 9.224 | 9.219 | 9.229 | VV | 299 | 1596 | 0.02% | 0.005% |
| 152 | 9.250 | 9.229 | 9.274 | VV | 992 | 12234 | 0.13% | 0.039% |
| 153 | 9.304 | 9.274 | 9.326 | VV | 514 | 10097 | 0.11% | 0.032% |
| 154 | 9.351 | 9.326 | 9.370 | VV | 3249 | 40656 | 0.44% | 0.128% |
| 155 | 9.388 | 9.370 | 9.431 | VV | 10903 | 171844 | 1.85% | 0.542% |
| 156 | 9.436 | 9.431 | 9.459 | VV | 1641 | 21258 | 0.23% | 0.067% |
| 157 | 9.466 | 9.459 | 9.501 | VV | 1217 | 21108 | 0.23% | 0.067% |
| 158 | 9.521 | 9.501 | 9.554 | VV | 1985 | 28710 | 0.31% | 0.091% |
| 159 | 9.559 | 9.554 | 9.578 | VV | 274 | 3292 | 0.04% | 0.010% |
| 160 | 9.592 | 9.578 | 9.596 | VV | 618 | 5021 | 0.05% | 0.016% |
| 161 | 9.604 | 9.596 | 9.614 | VV | 744 | 6731 | 0.07% | 0.021% |
| 162 | 9.620 | 9.614 | 9.642 | VV | 656 | 7695 | 0.08% | 0.024% |
| 163 | 9.649 | 9.642 | 9.653 | VV | 441 | 2529 | 0.03% | 0.008% |
| 164 | 9.659 | 9.653 | 9.674 | VV | 473 | 5015 | 0.05% | 0.016% |
| 165 | 9.676 | 9.674 | 9.682 | VV | 453 | 1879 | 0.02% | 0.006% |
| 166 | 9.687 | 9.682 | 9.719 | VV | 451 | 5920 | 0.06% | 0.019% |
| 167 | 9.729 | 9.719 | 9.742 | PV | 263 | 1968 | 0.02% | 0.006% |
| 168 | 9.744 | 9.742 | 9.759 | VV | 313 | 1916 | 0.02% | 0.006% |
| 169 | 9.772 | 9.759 | 9.779 | VV | 381 | 3446 | 0.04% | 0.011% |
| 170 | 9.793 | 9.779 | 9.811 | VV | 427 | 7253 | 0.08% | 0.023% |
| 171 | 9.838 | 9.811 | 9.857 | VV | 885 | 16205 | 0.17% | 0.051% |
| 172 | 9.866 | 9.857 | 9.875 | VV | 566 | 5085 | 0.05% | 0.016% |
| 173 | 9.910 | 9.875 | 9.928 | VV | 1009 | 20298 | 0.22% | 0.064% |
| 174 | 9.947 | 9.928 | 9.963 | VV | 948 | 16055 | 0.17% | 0.051% |
| 175 | 9.975 | 9.963 | 9.980 | VV | 811 | 7040 | 0.08% | 0.022% |
| 176 | 9.999 | 9.980 | 10.009 | VV | 864 | 12263 | 0.13% | 0.039% |
| 177 | 10.023 | 10.009 | 10.054 | VV | 2202 | 29369 | 0.32% | 0.093% |
| 178 | 10.065 | 10.054 | 10.082 | VV | 634 | 7088 | 0.08% | 0.022% |
| 179 | 10.106 | 10.082 | 10.110 | VV | 1358 | 15173 | 0.16% | 0.048% |
| 180 | 10.114 | 10.110 | 10.131 | VV | 1405 | 14020 | 0.15% | 0.044% |
| 181 | 10.155 | 10.131 | 10.172 | VV | 1318 | 26526 | 0.29% | 0.084% |
| 182 | 10.195 | 10.172 | 10.214 | VV | 1278 | 25662 | 0.28% | 0.081% |
| 183 | 10.219 | 10.214 | 10.236 | VV | 1334 | 15632 | 0.17% | 0.049% |
| 184 | 10.252 | 10.236 | 10.287 | VV | 1281 | 29240 | 0.31% | 0.092% |
| 185 | 10.310 | 10.287 | 10.324 | VV | 1202 | 18770 | 0.20% | 0.059% |
| 186 | 10.346 | 10.324 | 10.359 | VV | 1376 | 22760 | 0.24% | 0.072% |
| 187 | 10.378 | 10.359 | 10.403 | VV | 2794 | 44117 | 0.47% | 0.139% |
| 188 | 10.432 | 10.403 | 10.460 | VV | 947 | 22755 | 0.24% | 0.072% |
| 189 | 10.474 | 10.460 | 10.490 | VV | 842 | 11967 | 0.13% | 0.038% |
| 190 | 10.501 | 10.490 | 10.517 | VV | 571 | 7467 | 0.08% | 0.024% |
| 191 | 10.538 | 10.517 | 10.553 | VV | 949 | 14332 | 0.15% | 0.045% |
| 192 | 10.558 | 10.553 | 10.607 | VV | 919 | 22362 | 0.24% | 0.070% |
| 193 | 10.613 | 10.607 | 10.636 | VV | 745 | 9139 | 0.10% | 0.029% |
| 194 | 10.649 | 10.636 | 10.655 | VV | 745 | 7298 | 0.08% | 0.023% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 10.676 | 10.655 | 10.701 | VV | 1307 | 22081 | 0.24% | 0.070% |
| 196 | 10.707 | 10.701 | 10.727 | VV | 610 | 5931 | 0.06% | 0.019% |
| 197 | 10.744 | 10.727 | 10.754 | VV | 582 | 7056 | 0.08% | 0.022% |
| 198 | 10.765 | 10.754 | 10.774 | VV | 553 | 4689 | 0.05% | 0.015% |
| 199 | 10.776 | 10.774 | 10.783 | VV | 341 | 1548 | 0.02% | 0.005% |
| 200 | 10.807 | 10.783 | 10.820 | VV | 368 | 5851 | 0.06% | 0.018% |
| 201 | 10.824 | 10.820 | 10.845 | VV | 322 | 2858 | 0.03% | 0.009% |
| 202 | 10.850 | 10.845 | 10.866 | VV | 288 | 2353 | 0.03% | 0.007% |
| 203 | 10.885 | 10.866 | 10.910 | VV | 1010 | 13332 | 0.14% | 0.042% |
| 204 | 10.953 | 10.910 | 10.983 | VV | 2151 | 33964 | 0.37% | 0.107% |
| 205 | 11.004 | 10.983 | 11.017 | VV | 572 | 8791 | 0.09% | 0.028% |
| 206 | 11.035 | 11.017 | 11.081 | VV | 969 | 20609 | 0.22% | 0.065% |
| 207 | 11.088 | 11.081 | 11.097 | VV | 429 | 2381 | 0.03% | 0.008% |
| 208 | 11.101 | 11.097 | 11.123 | VV | 327 | 3129 | 0.03% | 0.010% |
| 209 | 11.145 | 11.123 | 11.167 | PV | 563 | 8956 | 0.10% | 0.028% |
| 210 | 11.184 | 11.167 | 11.214 | VV | 447 | 8186 | 0.09% | 0.026% |
| 211 | 11.251 | 11.214 | 11.302 | VV | 525080 | 5542829 | 59.58% | 17.474% |
| 212 | 11.305 | 11.302 | 11.324 | VV | 1127 | 13182 | 0.14% | 0.042% |
| 213 | 11.336 | 11.324 | 11.365 | VV | 1353 | 25764 | 0.28% | 0.081% |
| 214 | 11.373 | 11.365 | 11.394 | VV | 961 | 13924 | 0.15% | 0.044% |
| 215 | 11.420 | 11.394 | 11.460 | VV | 1611 | 34056 | 0.37% | 0.107% |
| 216 | 11.468 | 11.460 | 11.494 | VV | 635 | 10045 | 0.11% | 0.032% |
| 217 | 11.515 | 11.494 | 11.532 | VV | 766 | 13502 | 0.15% | 0.043% |
| 218 | 11.538 | 11.532 | 11.554 | VV | 616 | 7343 | 0.08% | 0.023% |
| 219 | 11.581 | 11.554 | 11.595 | VV | 1263 | 22594 | 0.24% | 0.071% |
| 220 | 11.608 | 11.595 | 11.631 | VV | 1711 | 24778 | 0.27% | 0.078% |
| 221 | 11.673 | 11.631 | 11.697 | VV | 5855 | 85011 | 0.91% | 0.268% |
| 222 | 11.708 | 11.697 | 11.731 | VV | 1015 | 15554 | 0.17% | 0.049% |
| 223 | 11.747 | 11.731 | 11.761 | VV | 892 | 13035 | 0.14% | 0.041% |
| 224 | 11.772 | 11.761 | 11.795 | VV | 849 | 12181 | 0.13% | 0.038% |
| 225 | 11.830 | 11.795 | 11.846 | VV | 2063 | 37669 | 0.40% | 0.119% |
| 226 | 11.868 | 11.846 | 11.939 | VV | 15570 | 230451 | 2.48% | 0.727% |
| 227 | 11.944 | 11.939 | 11.972 | VV | 991 | 15024 | 0.16% | 0.047% |
| 228 | 11.983 | 11.972 | 11.990 | VV | 832 | 8484 | 0.09% | 0.027% |
| 229 | 12.018 | 11.990 | 12.041 | VV | 912 | 24356 | 0.26% | 0.077% |
| 230 | 12.090 | 12.041 | 12.099 | VV | 1613 | 37088 | 0.40% | 0.117% |
| 231 | 12.121 | 12.099 | 12.141 | VV | 6526 | 89503 | 0.96% | 0.282% |
| 232 | 12.160 | 12.141 | 12.180 | VV | 6325 | 79157 | 0.85% | 0.250% |
| 233 | 12.194 | 12.180 | 12.222 | VV | 1839 | 26135 | 0.28% | 0.082% |
| 234 | 12.254 | 12.222 | 12.292 | VV | 2679 | 48030 | 0.52% | 0.151% |
| 235 | 12.318 | 12.292 | 12.375 | VV | 1993 | 47844 | 0.51% | 0.151% |
| 236 | 12.383 | 12.375 | 12.422 | VV | 650 | 12737 | 0.14% | 0.040% |
| 237 | 12.425 | 12.422 | 12.439 | VV | 307 | 1574 | 0.02% | 0.005% |
| 238 | 12.450 | 12.439 | 12.462 | PV | 271 | 2507 | 0.03% | 0.008% |
| 239 | 12.475 | 12.462 | 12.480 | VV | 398 | 3030 | 0.03% | 0.010% |
| 240 | 12.491 | 12.480 | 12.495 | VV | 369 | 2812 | 0.03% | 0.009% |
| 241 | 12.533 | 12.495 | 12.554 | VV | 944 | 20070 | 0.22% | 0.063% |
| 242 | 12.556 | 12.554 | 12.573 | VV | 530 | 5168 | 0.06% | 0.016% |
| 243 | 12.580 | 12.573 | 12.591 | VV | 595 | 4508 | 0.05% | 0.014% |
| 244 | 12.618 | 12.591 | 12.646 | VV | 14091 | 174712 | 1.88% | 0.551% |
| 245 | 12.692 | 12.646 | 12.727 | VV | 127342 | 1516960 | 16.30% | 4.782% |
| 246 | 12.741 | 12.727 | 12.765 | VV | 1241 | 24903 | 0.27% | 0.079% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 12.772 | 12.765 | 12.801 | VV | 1072 | 16302 | 0.18% | 0.051% |
| 248 | 12.808 | 12.801 | 12.816 | VV | 628 | 5084 | 0.05% | 0.016% |
| 249 | 12.819 | 12.816 | 12.821 | VV | 603 | 1868 | 0.02% | 0.006% |
| 250 | 12.828 | 12.821 | 12.840 | VV | 632 | 6398 | 0.07% | 0.020% |
| 251 | 12.860 | 12.840 | 12.889 | VV | 1108 | 25866 | 0.28% | 0.082% |
| 252 | 12.919 | 12.889 | 12.959 | VV | 3809 | 70620 | 0.76% | 0.223% |
| 253 | 12.970 | 12.959 | 12.987 | VV | 897 | 13913 | 0.15% | 0.044% |
| 254 | 12.996 | 12.987 | 13.025 | VV | 821 | 15098 | 0.16% | 0.048% |
| 255 | 13.031 | 13.025 | 13.034 | VV | 600 | 2777 | 0.03% | 0.009% |
| 256 | 13.057 | 13.034 | 13.063 | VV | 998 | 14913 | 0.16% | 0.047% |
| 257 | 13.093 | 13.063 | 13.139 | VV | 4589 | 98890 | 1.06% | 0.312% |
| 258 | 13.147 | 13.139 | 13.176 | VV | 1535 | 22866 | 0.25% | 0.072% |
| 259 | 13.183 | 13.176 | 13.205 | VV | 811 | 11353 | 0.12% | 0.036% |
| 260 | 13.208 | 13.205 | 13.215 | VV | 658 | 3905 | 0.04% | 0.012% |
| 261 | 13.224 | 13.215 | 13.258 | VV | 799 | 16941 | 0.18% | 0.053% |
| 262 | 13.291 | 13.258 | 13.338 | VV | 3415 | 72552 | 0.78% | 0.229% |
| 263 | 13.361 | 13.338 | 13.367 | VV | 882 | 12712 | 0.14% | 0.040% |
| 264 | 13.395 | 13.367 | 13.425 | VV | 2386 | 45803 | 0.49% | 0.144% |
| 265 | 13.445 | 13.425 | 13.475 | VV | 2801 | 39676 | 0.43% | 0.125% |
| 266 | 13.481 | 13.475 | 13.525 | VV | 513 | 11162 | 0.12% | 0.035% |
| 267 | 13.548 | 13.525 | 13.554 | VV | 454 | 6213 | 0.07% | 0.020% |
| 268 | 13.558 | 13.554 | 13.567 | VV | 464 | 3208 | 0.03% | 0.010% |
| 269 | 13.570 | 13.567 | 13.592 | VV | 445 | 5245 | 0.06% | 0.017% |
| 270 | 13.599 | 13.592 | 13.614 | VV | 352 | 4271 | 0.05% | 0.013% |
| 271 | 13.621 | 13.614 | 13.652 | VV | 449 | 7357 | 0.08% | 0.023% |
| 272 | 13.661 | 13.652 | 13.667 | VV | 461 | 3384 | 0.04% | 0.011% |
| 273 | 13.675 | 13.667 | 13.697 | VV | 575 | 6835 | 0.07% | 0.022% |
| 274 | 13.735 | 13.697 | 13.762 | VV | 630 | 15559 | 0.17% | 0.049% |
| 275 | 13.780 | 13.762 | 13.790 | VV | 572 | 7196 | 0.08% | 0.023% |
| 276 | 13.804 | 13.790 | 13.826 | VV | 799 | 12147 | 0.13% | 0.038% |
| 277 | 13.876 | 13.826 | 13.904 | VV | 1526 | 44588 | 0.48% | 0.141% |
| 278 | 13.905 | 13.904 | 13.927 | VV | 884 | 9689 | 0.10% | 0.031% |
| 279 | 13.936 | 13.927 | 13.953 | VV | 718 | 9777 | 0.11% | 0.031% |
| 280 | 13.961 | 13.953 | 13.982 | VV | 685 | 11281 | 0.12% | 0.036% |
| 281 | 14.004 | 13.982 | 14.027 | VV | 1432 | 24710 | 0.27% | 0.078% |
| 282 | 14.033 | 14.027 | 14.035 | VV | 675 | 2853 | 0.03% | 0.009% |
| 283 | 14.042 | 14.035 | 14.055 | VV | 723 | 7710 | 0.08% | 0.024% |
| 284 | 14.072 | 14.055 | 14.077 | VV | 644 | 7843 | 0.08% | 0.025% |
| 285 | 14.098 | 14.077 | 14.120 | VV | 1390 | 26822 | 0.29% | 0.085% |
| 286 | 14.126 | 14.120 | 14.130 | VV | 901 | 5007 | 0.05% | 0.016% |
| 287 | 14.139 | 14.130 | 14.159 | VV | 1053 | 15404 | 0.17% | 0.049% |
| 288 | 14.174 | 14.159 | 14.192 | VV | 872 | 14142 | 0.15% | 0.045% |
| 289 | 14.217 | 14.192 | 14.239 | VV | 1052 | 23899 | 0.26% | 0.075% |
| 290 | 14.244 | 14.239 | 14.248 | VV | 924 | 4637 | 0.05% | 0.015% |
| 291 | 14.253 | 14.248 | 14.283 | VV | 1029 | 17615 | 0.19% | 0.056% |
| 292 | 14.304 | 14.283 | 14.320 | VV | 1225 | 20719 | 0.22% | 0.065% |
| 293 | 14.323 | 14.320 | 14.334 | VV | 1082 | 6929 | 0.07% | 0.022% |
| 294 | 14.347 | 14.334 | 14.372 | VV | 1064 | 17610 | 0.19% | 0.056% |
| 295 | 14.388 | 14.372 | 14.401 | VV | 747 | 10180 | 0.11% | 0.032% |
| 296 | 14.409 | 14.401 | 14.417 | VV | 612 | 5506 | 0.06% | 0.017% |
| 297 | 14.427 | 14.417 | 14.434 | VV | 713 | 6029 | 0.06% | 0.019% |
| 298 | 14.441 | 14.434 | 14.474 | VV | 840 | 16259 | 0.17% | 0.051% |
| 299 | 14.501 | 14.474 | 14.521 | VV | 2173 | 37351 | 0.40% | 0.118% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 14.541 | 14.521 | 14.577 | VV | 3331 | 56767 | 0.61% | 0.179% |
| 301 | 14.586 | 14.577 | 14.612 | VV | 1151 | 16048 | 0.17% | 0.051% |
| 302 | 14.629 | 14.612 | 14.639 | VV | 539 | 7655 | 0.08% | 0.024% |
| 303 | 14.642 | 14.639 | 14.648 | VV | 641 | 3046 | 0.03% | 0.010% |
| 304 | 14.659 | 14.648 | 14.692 | VV | 595 | 12454 | 0.13% | 0.039% |
| 305 | 14.714 | 14.692 | 14.739 | VV | 709 | 15784 | 0.17% | 0.050% |
| 306 | 14.749 | 14.739 | 14.780 | VV | 708 | 11320 | 0.12% | 0.036% |
| 307 | 14.815 | 14.780 | 14.830 | VV | 497 | 9982 | 0.11% | 0.031% |
| 308 | 14.844 | 14.830 | 14.864 | VV | 542 | 7938 | 0.09% | 0.025% |
| 309 | 14.867 | 14.864 | 14.878 | VV | 405 | 2724 | 0.03% | 0.009% |
| 310 | 14.918 | 14.878 | 14.996 | VV | 15906 | 334367 | 3.59% | 1.054% |
| 311 | 15.001 | 14.996 | 15.012 | VV | 1260 | 11581 | 0.12% | 0.037% |
| 312 | 15.023 | 15.012 | 15.039 | VV | 1356 | 19277 | 0.21% | 0.061% |
| 313 | 15.069 | 15.039 | 15.097 | VV | 5781 | 96836 | 1.04% | 0.305% |
| 314 | 15.107 | 15.097 | 15.130 | VV | 853 | 12987 | 0.14% | 0.041% |
| 315 | 15.156 | 15.130 | 15.172 | VV | 805 | 14347 | 0.15% | 0.045% |
| 316 | 15.181 | 15.172 | 15.189 | VV | 748 | 6239 | 0.07% | 0.020% |
| 317 | 15.192 | 15.189 | 15.224 | VV | 739 | 11221 | 0.12% | 0.035% |
| 318 | 15.257 | 15.224 | 15.282 | VV | 1247 | 25450 | 0.27% | 0.080% |
| 319 | 15.302 | 15.282 | 15.329 | VV | 589 | 11329 | 0.12% | 0.036% |
| 320 | 15.386 | 15.329 | 15.392 | VV | 936 | 24252 | 0.26% | 0.076% |
| 321 | 15.405 | 15.392 | 15.430 | VV | 876 | 17195 | 0.18% | 0.054% |
| 322 | 15.449 | 15.430 | 15.471 | VV | 954 | 17833 | 0.19% | 0.056% |
| 323 | 15.478 | 15.471 | 15.497 | VV | 631 | 7357 | 0.08% | 0.023% |
| 324 | 15.518 | 15.497 | 15.535 | VV | 1269 | 20035 | 0.22% | 0.063% |
| 325 | 15.557 | 15.535 | 15.590 | VV | 3200 | 50899 | 0.55% | 0.160% |
| 326 | 15.604 | 15.590 | 15.613 | VV | 1037 | 9917 | 0.11% | 0.031% |
| 327 | 15.618 | 15.613 | 15.650 | VV | 930 | 8405 | 0.09% | 0.026% |
| 328 | 15.667 | 15.650 | 15.681 | VV | 290 | 2919 | 0.03% | 0.009% |
| 329 | 15.710 | 15.688 | 15.717 | VV | 409 | 3662 | 0.04% | 0.012% |
| 330 | 15.720 | 15.717 | 15.724 | VV | 332 | 1162 | 0.01% | 0.004% |
| 331 | 15.734 | 15.724 | 15.752 | VV | 320 | 3862 | 0.04% | 0.012% |
| 332 | 15.756 | 15.752 | 15.769 | VV | 181 | 1544 | 0.02% | 0.005% |
| 333 | 15.777 | 15.769 | 15.799 | VV | 252 | 2561 | 0.03% | 0.008% |
| 334 | 15.807 | 15.799 | 15.819 | VV | 345 | 2658 | 0.03% | 0.008% |
| 335 | 15.824 | 15.819 | 15.834 | VV | 275 | 1702 | 0.02% | 0.005% |
| 336 | 15.858 | 15.834 | 15.865 | VV | 322 | 3993 | 0.04% | 0.013% |
| 337 | 15.869 | 15.865 | 15.884 | VV | 378 | 2628 | 0.03% | 0.008% |
| 338 | 15.930 | 15.884 | 15.995 | PV | 4418 | 107403 | 1.15% | 0.339% |
| 339 | 16.006 | 15.995 | 16.017 | VV | 774 | 8519 | 0.09% | 0.027% |
| 340 | 16.038 | 16.017 | 16.084 | VV | 2340 | 41530 | 0.45% | 0.131% |
| 341 | 16.114 | 16.084 | 16.139 | VV | 3120 | 48287 | 0.52% | 0.152% |
| 342 | 16.143 | 16.139 | 16.148 | VV | 403 | 1856 | 0.02% | 0.006% |
| 343 | 16.179 | 16.148 | 16.212 | VV | 1075 | 27108 | 0.29% | 0.085% |
| 344 | 16.223 | 16.212 | 16.252 | VV | 1031 | 18250 | 0.20% | 0.058% |
| 345 | 16.256 | 16.252 | 16.262 | VV | 690 | 3646 | 0.04% | 0.011% |
| 346 | 16.268 | 16.262 | 16.294 | VV | 854 | 13190 | 0.14% | 0.042% |
| 347 | 16.318 | 16.294 | 16.335 | VV | 1666 | 27072 | 0.29% | 0.085% |
| 348 | 16.356 | 16.335 | 16.374 | VV | 1174 | 19817 | 0.21% | 0.062% |
| 349 | 16.393 | 16.374 | 16.396 | VV | 1215 | 13563 | 0.15% | 0.043% |
| 350 | 16.413 | 16.396 | 16.421 | VV | 1443 | 17952 | 0.19% | 0.057% |
| 351 | 16.428 | 16.421 | 16.444 | VV | 802 | 9347 | 0.10% | 0.029% |

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|---|---|---|---|---|---|---|---|---|
| 352 | 16.469 | 16.444 | 16.481 | VV | 1750 | 28535 | 0.31% | 0.090% |
| 353 | 16.502 | 16.481 | 16.522 | VV | 3358 | 53202 | 0.57% | 0.168% |
| 354 | 16.544 | 16.522 | 16.565 | VV | 10906 | 143598 | 1.54% | 0.453% |
| 355 | 16.576 | 16.565 | 16.685 | VV | 2603 | 54152 | 0.58% | 0.171% |
| 356 | 16.697 | 16.685 | 16.700 | VV | 288 | 1978 | 0.02% | 0.006% |
| 357 | 16.706 | 16.700 | 16.724 | VV | 325 | 3320 | 0.04% | 0.010% |
| 358 | 16.739 | 16.724 | 16.753 | PV | 207 | 1882 | 0.02% | 0.006% |
| 359 | 16.803 | 16.753 | 16.830 | VV | 1195 | 24596 | 0.26% | 0.078% |
| 360 | 16.869 | 16.830 | 16.915 | VV | 2062 | 47427 | 0.51% | 0.150% |
| 361 | 16.948 | 16.915 | 16.975 | VV | 3864 | 63300 | 0.68% | 0.200% |
| 362 | 16.988 | 16.975 | 17.000 | VV | 496 | 5517 | 0.06% | 0.017% |
| 363 | 17.029 | 17.000 | 17.050 | VV | 740 | 14438 | 0.16% | 0.046% |
| 364 | 17.052 | 17.050 | 17.065 | VV | 728 | 4965 | 0.05% | 0.016% |
| 365 | 17.075 | 17.065 | 17.119 | VV | 617 | 13154 | 0.14% | 0.041% |
| 366 | 17.128 | 17.119 | 17.150 | VV | 451 | 6526 | 0.07% | 0.021% |
| 367 | 17.152 | 17.150 | 17.159 | VV | 385 | 1020 | 0.01% | 0.003% |
| 368 | 17.188 | 17.159 | 17.212 | VV | 527 | 10637 | 0.11% | 0.034% |
| 369 | 17.241 | 17.212 | 17.265 | VV | 433 | 10079 | 0.11% | 0.032% |
| 370 | 17.272 | 17.265 | 17.301 | VV | 521 | 8213 | 0.09% | 0.026% |
| 371 | 17.383 | 17.301 | 17.413 | VV | 3898 | 88259 | 0.95% | 0.278% |
| 372 | 17.430 | 17.413 | 17.437 | VV | 459 | 5350 | 0.06% | 0.017% |
| 373 | 17.471 | 17.437 | 17.505 | VV | 4029 | 62768 | 0.67% | 0.198% |
| 374 | 17.551 | 17.505 | 17.635 | VV | 11931 | 247454 | 2.66% | 0.780% |
| 375 | 17.646 | 17.635 | 17.653 | VV | 594 | 4847 | 0.05% | 0.015% |
| 376 | 17.699 | 17.653 | 17.718 | VV | 15744 | 225546 | 2.42% | 0.711% |
| 377 | 17.737 | 17.718 | 17.785 | VV | 12686 | 277021 | 2.98% | 0.873% |
| 378 | 17.804 | 17.785 | 17.837 | VV | 5229 | 92226 | 0.99% | 0.291% |
| 379 | 17.846 | 17.837 | 17.864 | VV | 709 | 8695 | 0.09% | 0.027% |
| 380 | 17.889 | 17.864 | 17.911 | VV | 1502 | 27813 | 0.30% | 0.088% |
| 381 | 17.923 | 17.911 | 17.945 | VV | 942 | 14548 | 0.16% | 0.046% |
| 382 | 17.950 | 17.945 | 17.961 | VV | 429 | 2916 | 0.03% | 0.009% |
| 383 | 17.964 | 17.961 | 17.968 | VV | 284 | 1104 | 0.01% | 0.003% |
| 384 | 18.009 | 17.968 | 18.076 | VV | 1199 | 38567 | 0.41% | 0.122% |
| 385 | 18.096 | 18.076 | 18.100 | PV | 527 | 4912 | 0.05% | 0.015% |
| 386 | 18.113 | 18.100 | 18.134 | VV | 466 | 6643 | 0.07% | 0.021% |
| 387 | 18.160 | 18.134 | 18.184 | PV | 1663 | 23858 | 0.26% | 0.075% |

Sum of corrected areas: 31720572

Aromatic EPH 111424.M Tue Nov 19 06:18:23 2024

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | 11/14/24 | |
| Project: | Ocean County Landfill 2024 | | Date Received: | 11/14/24 | |
| Client Sample ID: | DUP-01 | | SDG No.: | P4860 | |
| Lab Sample ID: | P4860-01 | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 96.8 | |
| Sample Wt/Vol: | 30.1 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FG014868.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 0.39 | 1.03 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.30 | J | 0.25 | 0.69 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.37 | J | 0.31 | 1.03 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.82 | U | 0.82 | 1.37 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.89 | J | 1.85 | 2.06 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 34.2 | | 40 - 140 | 68% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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

# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-01 | Acq On: | 19 Nov 2024 13:12 |
| Client Sample ID: | DUP-01 | Operator: | YP\AJ |
| Data file: | FG014868.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 26 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 502414 | 3.635 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 620460 | 4.427 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 716167 | 5.328 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 1204327 | 9.749 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 2862584 | 27.607 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 5905952 | 50.746 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.385 | 13.385 | 3804504 | 34.24 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 3043368 | 23.139 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014868.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:12
Operator : YP\AJ
Sample : P4860-01
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
DUP-01

Integration File: autoint1.e
Quant Time: Nov 20 00:36:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.385 | 3804504 | 34.235 ug/ml |
| Spiked Amount 50.000 | | Recovery = 68.47% | |
| Target Compounds | | | |

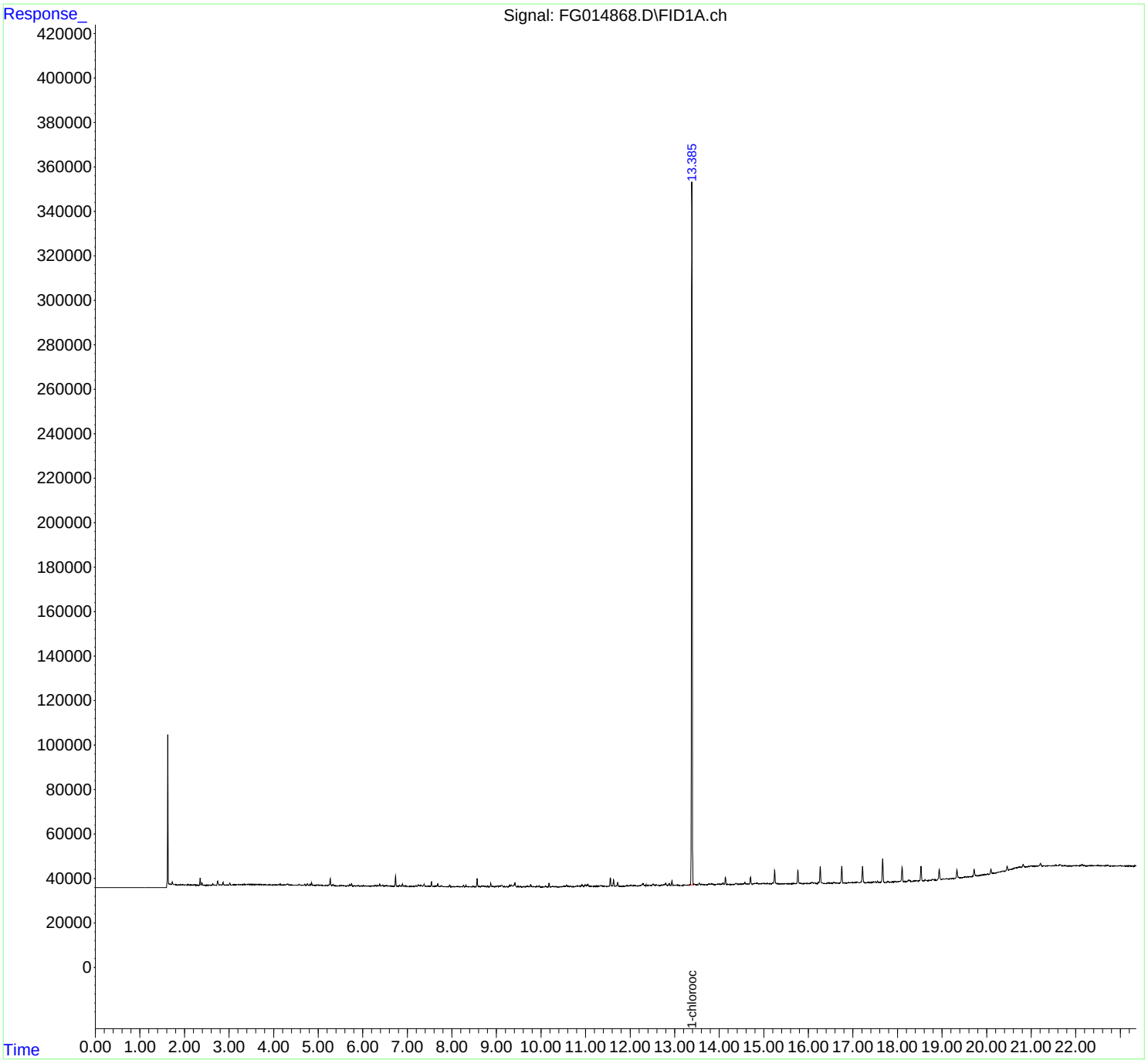
(f)=RT Delta > 1/2 Window (m)=manual int.

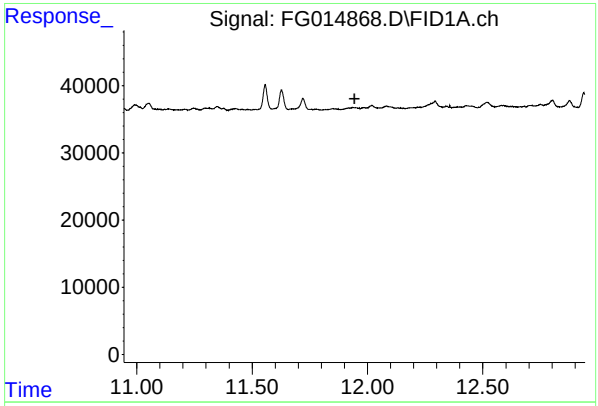
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014868.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:12
Operator : YP\AJ
Sample : P4860-01
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
DUP-01

Integration File: autoint1.e
Quant Time: Nov 20 00:36:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

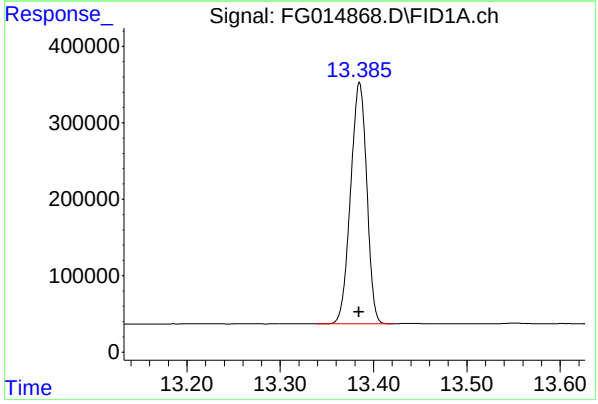





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
DUP-01




#12 1-chlorooctadecane (SURR)

R.T.: 13.385 min
Delta R.T.: 0.000 min
Response: 3804504
Conc: 34.24 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014868.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:12
Sample : P4860-01
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.244 | 3.221 | 3.301 | BV | 56 | 2477 | 0.06% | 0.025% |
| 2 | 3.321 | 3.301 | 3.338 | VV | 270 | 3374 | 0.09% | 0.035% |
| 3 | 3.347 | 3.338 | 3.378 | VV | 149 | 2896 | 0.08% | 0.030% |
| 4 | 3.382 | 3.378 | 3.397 | VV | 128 | 1292 | 0.03% | 0.013% |
| 5 | 3.440 | 3.397 | 3.472 | VV | 305 | 6930 | 0.18% | 0.071% |
| 6 | 3.507 | 3.472 | 3.584 | VV | 207 | 11536 | 0.30% | 0.119% |
| 7 | 3.601 | 3.584 | 3.611 | VV | 234 | 3336 | 0.09% | 0.034% |
| 8 | 3.620 | 3.611 | 3.653 | VV | 269 | 5240 | 0.14% | 0.054% |
| 9 | 3.657 | 3.653 | 3.689 | VV | 249 | 4248 | 0.11% | 0.044% |
| 10 | 3.708 | 3.689 | 3.744 | VV | 335 | 6390 | 0.17% | 0.066% |
| 11 | 3.764 | 3.744 | 3.786 | VV | 213 | 3796 | 0.10% | 0.039% |
| 12 | 3.797 | 3.786 | 3.868 | VV | 190 | 6045 | 0.16% | 0.062% |
| 13 | 3.879 | 3.868 | 3.888 | VV | 123 | 1222 | 0.03% | 0.013% |
| 14 | 3.904 | 3.888 | 3.921 | VV | 267 | 3480 | 0.09% | 0.036% |
| 15 | 3.927 | 3.921 | 3.984 | VV | 203 | 4398 | 0.12% | 0.045% |
| 16 | 3.999 | 3.984 | 4.085 | VV | 207 | 6459 | 0.17% | 0.066% |
| 17 | 4.111 | 4.085 | 4.128 | VV | 379 | 5725 | 0.15% | 0.059% |
| 18 | 4.145 | 4.128 | 4.204 | VV | 702 | 10265 | 0.27% | 0.106% |
| 19 | 4.221 | 4.204 | 4.249 | VV | 179 | 3618 | 0.09% | 0.037% |
| 20 | 4.258 | 4.249 | 4.265 | VV | 155 | 1238 | 0.03% | 0.013% |
| 21 | 4.315 | 4.265 | 4.365 | VV | 611 | 19074 | 0.50% | 0.196% |
| 22 | 4.372 | 4.365 | 4.457 | VV | 244 | 9035 | 0.24% | 0.093% |
| 23 | 4.469 | 4.457 | 4.498 | VV | 182 | 4209 | 0.11% | 0.043% |
| 24 | 4.506 | 4.498 | 4.531 | VV | 191 | 3071 | 0.08% | 0.032% |
| 25 | 4.570 | 4.531 | 4.593 | VV | 627 | 10752 | 0.28% | 0.111% |
| 26 | 4.609 | 4.593 | 4.633 | VV | 280 | 5207 | 0.14% | 0.054% |
| 27 | 4.645 | 4.633 | 4.671 | VV | 175 | 3204 | 0.08% | 0.033% |
| 28 | 4.695 | 4.671 | 4.718 | VV | 461 | 8097 | 0.21% | 0.083% |
| 29 | 4.725 | 4.718 | 4.732 | VV | 202 | 1401 | 0.04% | 0.014% |
| 30 | 4.758 | 4.732 | 4.780 | VV | 912 | 12387 | 0.32% | 0.127% |
| 31 | 4.791 | 4.780 | 4.803 | VV | 257 | 2785 | 0.07% | 0.029% |
| 32 | 4.821 | 4.803 | 4.837 | VV | 807 | 9657 | 0.25% | 0.099% |
| 33 | 4.854 | 4.837 | 4.904 | VV | 1305 | 17656 | 0.46% | 0.181% |
| 34 | 4.912 | 4.904 | 4.918 | VV | 210 | 1643 | 0.04% | 0.017% |
| 35 | 4.985 | 4.918 | 5.014 | VV | 412 | 14572 | 0.38% | 0.150% |
| 36 | 5.031 | 5.014 | 5.047 | VV | 308 | 4394 | 0.11% | 0.045% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.066 | 5.047 | 5.095 | VV | 320 | 6085 | 0.16% | 0.063% |
| 38 | 5.104 | 5.095 | 5.135 | VV | 154 | 2433 | 0.06% | 0.025% |
| 39 | 5.151 | 5.135 | 5.160 | VV | 132 | 1597 | 0.04% | 0.016% |
| 40 | 5.184 | 5.160 | 5.205 | VV | 319 | 4815 | 0.13% | 0.049% |
| 41 | 5.271 | 5.205 | 5.310 | VV | 3213 | 45698 | 1.20% | 0.470% |
| 42 | 5.332 | 5.310 | 5.378 | VV | 687 | 11095 | 0.29% | 0.114% |
| 43 | 5.390 | 5.378 | 5.401 | VV | 84 | 1050 | 0.03% | 0.011% |
| 44 | 5.414 | 5.401 | 5.426 | VV | 73 | 878 | 0.02% | 0.009% |
| 45 | 5.451 | 5.426 | 5.464 | PV | 95 | 1170 | 0.03% | 0.012% |
| 46 | 5.479 | 5.464 | 5.500 | VV | 216 | 2873 | 0.08% | 0.030% |
| 47 | 5.517 | 5.500 | 5.542 | VV | 313 | 4478 | 0.12% | 0.046% |
| 48 | 5.563 | 5.542 | 5.574 | VV | 135 | 2068 | 0.05% | 0.021% |
| 49 | 5.583 | 5.574 | 5.626 | VV | 159 | 2562 | 0.07% | 0.026% |
| 50 | 5.669 | 5.626 | 5.682 | PV | 182 | 3050 | 0.08% | 0.031% |
| 51 | 5.705 | 5.682 | 5.722 | VV | 738 | 8856 | 0.23% | 0.091% |
| 52 | 5.750 | 5.722 | 5.795 | VV | 1154 | 16428 | 0.43% | 0.169% |
| 53 | 5.811 | 5.795 | 5.839 | VV | 356 | 4572 | 0.12% | 0.047% |
| 54 | 5.852 | 5.839 | 5.861 | VV | 141 | 1240 | 0.03% | 0.013% |
| 55 | 5.894 | 5.861 | 5.953 | VV | 317 | 8352 | 0.22% | 0.086% |
| 56 | 5.965 | 5.953 | 5.983 | VV | 146 | 2007 | 0.05% | 0.021% |
| 57 | 6.018 | 5.983 | 6.041 | VV | 280 | 5795 | 0.15% | 0.060% |
| 58 | 6.075 | 6.041 | 6.113 | VV | 215 | 5622 | 0.15% | 0.058% |
| 59 | 6.140 | 6.113 | 6.159 | VV | 109 | 1790 | 0.05% | 0.018% |
| 60 | 6.186 | 6.159 | 6.205 | VV | 150 | 2318 | 0.06% | 0.024% |
| 61 | 6.240 | 6.205 | 6.256 | VV | 202 | 3434 | 0.09% | 0.035% |
| 62 | 6.296 | 6.256 | 6.321 | VV | 412 | 10504 | 0.27% | 0.108% |
| 63 | 6.339 | 6.321 | 6.365 | VV | 522 | 7322 | 0.19% | 0.075% |
| 64 | 6.383 | 6.365 | 6.415 | VV | 944 | 13270 | 0.35% | 0.136% |
| 65 | 6.448 | 6.415 | 6.485 | VV | 664 | 12785 | 0.33% | 0.131% |
| 66 | 6.524 | 6.485 | 6.571 | VV | 399 | 13084 | 0.34% | 0.134% |
| 67 | 6.577 | 6.571 | 6.605 | VV | 202 | 3479 | 0.09% | 0.036% |
| 68 | 6.623 | 6.605 | 6.637 | VV | 215 | 3366 | 0.09% | 0.035% |
| 69 | 6.648 | 6.637 | 6.681 | VV | 147 | 3286 | 0.09% | 0.034% |
| 70 | 6.701 | 6.681 | 6.711 | VV | 160 | 2380 | 0.06% | 0.024% |
| 71 | 6.738 | 6.711 | 6.768 | VV | 4748 | 51200 | 1.34% | 0.526% |
| 72 | 6.782 | 6.768 | 6.807 | VV | 170 | 3248 | 0.08% | 0.033% |
| 73 | 6.825 | 6.807 | 6.843 | VV | 588 | 7115 | 0.19% | 0.073% |
| 74 | 6.861 | 6.843 | 6.874 | VV | 381 | 4448 | 0.12% | 0.046% |
| 75 | 6.892 | 6.874 | 6.913 | VV | 1129 | 12646 | 0.33% | 0.130% |
| 76 | 6.927 | 6.913 | 6.951 | VV | 368 | 4902 | 0.13% | 0.050% |
| 77 | 6.967 | 6.951 | 6.999 | VV | 571 | 6604 | 0.17% | 0.068% |
| 78 | 7.027 | 6.999 | 7.055 | VV | 135 | 2918 | 0.08% | 0.030% |
| 79 | 7.078 | 7.055 | 7.104 | VV | 178 | 3237 | 0.08% | 0.033% |
| 80 | 7.127 | 7.104 | 7.175 | VV | 187 | 4407 | 0.12% | 0.045% |
| 81 | 7.195 | 7.175 | 7.226 | PV | 561 | 7478 | 0.20% | 0.077% |
| 82 | 7.249 | 7.226 | 7.284 | VV | 915 | 17074 | 0.45% | 0.175% |
| 83 | 7.309 | 7.284 | 7.345 | VV | 731 | 16685 | 0.44% | 0.171% |
| 84 | 7.377 | 7.345 | 7.402 | VV | 1091 | 17975 | 0.47% | 0.185% |
| 85 | 7.416 | 7.402 | 7.441 | VV | 352 | 4378 | 0.11% | 0.045% |
| 86 | 7.460 | 7.441 | 7.473 | VV | 235 | 3550 | 0.09% | 0.036% |
| 87 | 7.485 | 7.473 | 7.512 | VV | 280 | 4330 | 0.11% | 0.045% |
| 88 | 7.543 | 7.512 | 7.581 | VV | 2266 | 26692 | 0.70% | 0.274% |
| 89 | 7.603 | 7.581 | 7.635 | VV | 273 | 6805 | 0.18% | 0.070% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.652 | 7.635 | 7.665 | VV | 496 | 5549 | 0.15% | 0.057% |
| 91 | 7.685 | 7.665 | 7.711 | VV | 1401 | 16492 | 0.43% | 0.169% |
| 92 | 7.721 | 7.711 | 7.734 | VV | 236 | 2562 | 0.07% | 0.026% |
| 93 | 7.754 | 7.734 | 7.764 | VV | 374 | 4766 | 0.12% | 0.049% |
| 94 | 7.778 | 7.764 | 7.818 | VV | 548 | 7339 | 0.19% | 0.075% |
| 95 | 7.839 | 7.818 | 7.884 | VV | 138 | 3181 | 0.08% | 0.033% |
| 96 | 7.895 | 7.884 | 7.935 | PV | 90 | 1014 | 0.03% | 0.010% |
| 97 | 7.952 | 7.935 | 7.997 | VV | 954 | 11476 | 0.30% | 0.118% |
| 98 | 8.012 | 7.997 | 8.020 | VV | 107 | 1183 | 0.03% | 0.012% |
| 99 | 8.035 | 8.020 | 8.072 | VV | 194 | 3730 | 0.10% | 0.038% |
| 100 | 8.120 | 8.072 | 8.141 | VV | 218 | 5704 | 0.15% | 0.059% |
| 101 | 8.146 | 8.141 | 8.161 | VV | 159 | 1603 | 0.04% | 0.016% |
| 102 | 8.172 | 8.161 | 8.200 | VV | 139 | 1662 | 0.04% | 0.017% |
| 103 | 8.216 | 8.200 | 8.235 | VV | 177 | 1817 | 0.05% | 0.019% |
| 104 | 8.262 | 8.235 | 8.287 | VV | 847 | 9639 | 0.25% | 0.099% |
| 105 | 8.318 | 8.287 | 8.339 | VV | 888 | 10216 | 0.27% | 0.105% |
| 106 | 8.355 | 8.339 | 8.373 | VV | 191 | 2941 | 0.08% | 0.030% |
| 107 | 8.388 | 8.373 | 8.418 | VV | 182 | 3200 | 0.08% | 0.033% |
| 108 | 8.429 | 8.418 | 8.451 | VV | 89 | 1397 | 0.04% | 0.014% |
| 109 | 8.475 | 8.451 | 8.498 | VV | 520 | 6591 | 0.17% | 0.068% |
| 110 | 8.511 | 8.498 | 8.537 | VV | 131 | 2242 | 0.06% | 0.023% |
| 111 | 8.569 | 8.537 | 8.640 | PV | 3832 | 48191 | 1.26% | 0.495% |
| 112 | 8.669 | 8.640 | 8.698 | VV | 502 | 11399 | 0.30% | 0.117% |
| 113 | 8.722 | 8.698 | 8.744 | VV | 494 | 9371 | 0.25% | 0.096% |
| 114 | 8.765 | 8.744 | 8.790 | VV | 366 | 6014 | 0.16% | 0.062% |
| 115 | 8.805 | 8.790 | 8.845 | VV | 512 | 6056 | 0.16% | 0.062% |
| 116 | 8.874 | 8.845 | 8.898 | VV | 1698 | 20607 | 0.54% | 0.212% |
| 117 | 8.922 | 8.898 | 8.945 | VV | 424 | 7047 | 0.18% | 0.072% |
| 118 | 8.995 | 8.945 | 9.005 | VV | 314 | 8368 | 0.22% | 0.086% |
| 119 | 9.032 | 9.005 | 9.048 | VV | 533 | 10082 | 0.26% | 0.104% |
| 120 | 9.064 | 9.048 | 9.076 | VV | 538 | 7211 | 0.19% | 0.074% |
| 121 | 9.114 | 9.076 | 9.156 | VV | 899 | 23934 | 0.63% | 0.246% |
| 122 | 9.178 | 9.156 | 9.207 | VV | 409 | 4965 | 0.13% | 0.051% |
| 123 | 9.231 | 9.207 | 9.252 | PV | 325 | 4690 | 0.12% | 0.048% |
| 124 | 9.297 | 9.252 | 9.314 | VV | 1021 | 14689 | 0.38% | 0.151% |
| 125 | 9.334 | 9.314 | 9.377 | VV | 947 | 23073 | 0.60% | 0.237% |
| 126 | 9.415 | 9.377 | 9.465 | VV | 2048 | 41145 | 1.08% | 0.423% |
| 127 | 9.486 | 9.465 | 9.509 | VV | 589 | 7417 | 0.19% | 0.076% |
| 128 | 9.537 | 9.509 | 9.569 | VV | 453 | 6062 | 0.16% | 0.062% |
| 129 | 9.618 | 9.569 | 9.667 | VV | 311 | 10749 | 0.28% | 0.110% |
| 130 | 9.701 | 9.667 | 9.741 | VV | 545 | 12617 | 0.33% | 0.130% |
| 131 | 9.767 | 9.741 | 9.804 | VV | 1118 | 18258 | 0.48% | 0.188% |
| 132 | 9.819 | 9.804 | 9.846 | VV | 331 | 5029 | 0.13% | 0.052% |
| 133 | 9.863 | 9.846 | 9.888 | VV | 249 | 3965 | 0.10% | 0.041% |
| 134 | 9.906 | 9.888 | 9.941 | VV | 537 | 7967 | 0.21% | 0.082% |
| 135 | 9.959 | 9.941 | 9.992 | VV | 664 | 8504 | 0.22% | 0.087% |
| 136 | 10.014 | 9.992 | 10.038 | VV | 114 | 1863 | 0.05% | 0.019% |
| 137 | 10.051 | 10.038 | 10.078 | VV | 199 | 2133 | 0.06% | 0.022% |
| 138 | 10.100 | 10.078 | 10.156 | PV | 524 | 8497 | 0.22% | 0.087% |
| 139 | 10.180 | 10.156 | 10.228 | VV | 1796 | 22312 | 0.58% | 0.229% |
| 140 | 10.259 | 10.228 | 10.308 | VV | 325 | 9812 | 0.26% | 0.101% |
| 141 | 10.352 | 10.308 | 10.385 | VV | 204 | 5331 | 0.14% | 0.055% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.398 | 10.385 | 10.409 | PV | 60 | 336 | 0.01% | 0.003% |
| 143 | 10.461 | 10.409 | 10.478 | VV | 227 | 4651 | 0.12% | 0.048% |
| 144 | 10.505 | 10.478 | 10.520 | VV | 374 | 6002 | 0.16% | 0.062% |
| 145 | 10.534 | 10.520 | 10.543 | VV | 259 | 3103 | 0.08% | 0.032% |
| 146 | 10.571 | 10.543 | 10.594 | VV | 769 | 13636 | 0.36% | 0.140% |
| 147 | 10.614 | 10.594 | 10.633 | VV | 518 | 8156 | 0.21% | 0.084% |
| 148 | 10.661 | 10.633 | 10.685 | VV | 364 | 7724 | 0.20% | 0.079% |
| 149 | 10.710 | 10.685 | 10.755 | VV | 214 | 5466 | 0.14% | 0.056% |
| 150 | 10.785 | 10.755 | 10.797 | VV | 396 | 6099 | 0.16% | 0.063% |
| 151 | 10.810 | 10.797 | 10.838 | VV | 403 | 7820 | 0.20% | 0.080% |
| 152 | 10.856 | 10.838 | 10.885 | VV | 493 | 10756 | 0.28% | 0.111% |
| 153 | 10.921 | 10.885 | 10.959 | VV | 1143 | 23449 | 0.61% | 0.241% |
| 154 | 10.992 | 10.959 | 11.025 | VV | 943 | 22870 | 0.60% | 0.235% |
| 155 | 11.051 | 11.025 | 11.086 | VV | 1157 | 23538 | 0.62% | 0.242% |
| 156 | 11.094 | 11.086 | 11.115 | VV | 288 | 3836 | 0.10% | 0.039% |
| 157 | 11.137 | 11.115 | 11.198 | VV | 300 | 9477 | 0.25% | 0.097% |
| 158 | 11.208 | 11.198 | 11.223 | VV | 234 | 2810 | 0.07% | 0.029% |
| 159 | 11.247 | 11.223 | 11.278 | VV | 351 | 7647 | 0.20% | 0.079% |
| 160 | 11.295 | 11.278 | 11.329 | VV | 395 | 9697 | 0.25% | 0.100% |
| 161 | 11.349 | 11.329 | 11.394 | VV | 617 | 13370 | 0.35% | 0.137% |
| 162 | 11.428 | 11.394 | 11.497 | VV | 292 | 9686 | 0.25% | 0.100% |
| 163 | 11.556 | 11.497 | 11.587 | VV | 3831 | 52296 | 1.37% | 0.537% |
| 164 | 11.627 | 11.587 | 11.657 | VV | 3022 | 43848 | 1.15% | 0.451% |
| 165 | 11.721 | 11.657 | 11.765 | VV | 1746 | 30736 | 0.80% | 0.316% |
| 166 | 11.774 | 11.765 | 11.799 | VV | 106 | 1799 | 0.05% | 0.018% |
| 167 | 11.851 | 11.799 | 11.885 | PV | 243 | 5337 | 0.14% | 0.055% |
| 168 | 11.939 | 11.885 | 11.969 | VV | 353 | 12073 | 0.32% | 0.124% |
| 169 | 11.983 | 11.969 | 11.997 | VV | 322 | 4598 | 0.12% | 0.047% |
| 170 | 12.019 | 11.997 | 12.060 | VV | 634 | 14187 | 0.37% | 0.146% |
| 171 | 12.082 | 12.060 | 12.165 | VV | 523 | 18640 | 0.49% | 0.192% |
| 172 | 12.293 | 12.165 | 12.325 | VV | 1182 | 45339 | 1.19% | 0.466% |
| 173 | 12.343 | 12.325 | 12.352 | VV | 435 | 5715 | 0.15% | 0.059% |
| 174 | 12.429 | 12.352 | 12.476 | VV | 493 | 24345 | 0.64% | 0.250% |
| 175 | 12.518 | 12.476 | 12.553 | VV | 962 | 25198 | 0.66% | 0.259% |
| 176 | 12.590 | 12.553 | 12.655 | VV | 479 | 20994 | 0.55% | 0.216% |
| 177 | 12.663 | 12.655 | 12.669 | VV | 273 | 2221 | 0.06% | 0.023% |
| 178 | 12.679 | 12.669 | 12.688 | VV | 309 | 3127 | 0.08% | 0.032% |
| 179 | 12.706 | 12.688 | 12.723 | VV | 446 | 8075 | 0.21% | 0.083% |
| 180 | 12.749 | 12.723 | 12.764 | VV | 578 | 11447 | 0.30% | 0.118% |
| 181 | 12.801 | 12.764 | 12.841 | VV | 1185 | 27306 | 0.71% | 0.281% |
| 182 | 12.876 | 12.841 | 12.910 | VV | 1147 | 19891 | 0.52% | 0.204% |
| 183 | 12.938 | 12.910 | 12.964 | VV | 2284 | 29756 | 0.78% | 0.306% |
| 184 | 12.985 | 12.964 | 13.023 | VV | 308 | 8928 | 0.23% | 0.092% |
| 185 | 13.052 | 13.023 | 13.137 | VV | 394 | 12543 | 0.33% | 0.129% |
| 186 | 13.217 | 13.137 | 13.245 | VV | 301 | 10377 | 0.27% | 0.107% |
| 187 | 13.265 | 13.245 | 13.285 | VV | 250 | 4885 | 0.13% | 0.050% |
| 188 | 13.304 | 13.285 | 13.320 | VV | 295 | 5287 | 0.14% | 0.054% |
| 189 | 13.385 | 13.320 | 13.420 | VV | 316101 | 3823794 | 100.00% | 39.300% |
| 190 | 13.443 | 13.420 | 13.475 | VV | 650 | 15055 | 0.39% | 0.155% |
| 191 | 13.484 | 13.475 | 13.525 | VV | 399 | 9456 | 0.25% | 0.097% |
| 192 | 13.551 | 13.525 | 13.584 | VV | 1193 | 21482 | 0.56% | 0.221% |
| 193 | 13.603 | 13.584 | 13.650 | VV | 523 | 15766 | 0.41% | 0.162% |
| 194 | 13.673 | 13.650 | 13.701 | VV | 371 | 8900 | 0.23% | 0.091% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.722 | 13.701 | 13.734 | VV | 322 | 5563 | 0.15% | 0.057% |
| 196 | 13.772 | 13.734 | 13.799 | VV | 598 | 18329 | 0.48% | 0.188% |
| 197 | 13.824 | 13.799 | 13.888 | VV | 673 | 26068 | 0.68% | 0.268% |
| 198 | 13.895 | 13.888 | 13.914 | VV | 369 | 4812 | 0.13% | 0.049% |
| 199 | 13.988 | 13.914 | 14.032 | VV | 526 | 27596 | 0.72% | 0.284% |
| 200 | 14.050 | 14.032 | 14.063 | VV | 520 | 8014 | 0.21% | 0.082% |
| 201 | 14.085 | 14.063 | 14.108 | VV | 1044 | 17065 | 0.45% | 0.175% |
| 202 | 14.138 | 14.108 | 14.171 | VV | 3373 | 46771 | 1.22% | 0.481% |
| 203 | 14.186 | 14.171 | 14.213 | VV | 357 | 6799 | 0.18% | 0.070% |
| 204 | 14.225 | 14.213 | 14.248 | VV | 296 | 5084 | 0.13% | 0.052% |
| 205 | 14.290 | 14.248 | 14.314 | VV | 246 | 8435 | 0.22% | 0.087% |
| 206 | 14.375 | 14.314 | 14.416 | VV | 785 | 24779 | 0.65% | 0.255% |
| 207 | 14.438 | 14.416 | 14.455 | VV | 408 | 7977 | 0.21% | 0.082% |
| 208 | 14.470 | 14.455 | 14.496 | VV | 346 | 7307 | 0.19% | 0.075% |
| 209 | 14.574 | 14.496 | 14.596 | VV | 1200 | 31757 | 0.83% | 0.326% |
| 210 | 14.621 | 14.596 | 14.652 | VV | 436 | 12094 | 0.32% | 0.124% |
| 211 | 14.701 | 14.652 | 14.748 | VV | 3437 | 54441 | 1.42% | 0.560% |
| 212 | 14.769 | 14.748 | 14.781 | VV | 499 | 7941 | 0.21% | 0.082% |
| 213 | 14.798 | 14.781 | 14.818 | VV | 549 | 10586 | 0.28% | 0.109% |
| 214 | 14.833 | 14.818 | 14.884 | VV | 675 | 21379 | 0.56% | 0.220% |
| 215 | 14.903 | 14.884 | 14.930 | VV | 452 | 11007 | 0.29% | 0.113% |
| 216 | 14.957 | 14.930 | 14.971 | VV | 541 | 11040 | 0.29% | 0.113% |
| 217 | 14.985 | 14.971 | 14.995 | VV | 482 | 6291 | 0.16% | 0.065% |
| 218 | 15.023 | 14.995 | 15.038 | VV | 561 | 11651 | 0.30% | 0.120% |
| 219 | 15.052 | 15.038 | 15.068 | VV | 519 | 7929 | 0.21% | 0.081% |
| 220 | 15.087 | 15.068 | 15.167 | VV | 502 | 20466 | 0.54% | 0.210% |
| 221 | 15.198 | 15.167 | 15.214 | VV | 827 | 14661 | 0.38% | 0.151% |
| 222 | 15.242 | 15.214 | 15.295 | VV | 6315 | 92007 | 2.41% | 0.946% |
| 223 | 15.298 | 15.295 | 15.355 | VV | 406 | 10055 | 0.26% | 0.103% |
| 224 | 15.382 | 15.355 | 15.411 | VV | 273 | 7549 | 0.20% | 0.078% |
| 225 | 15.439 | 15.411 | 15.459 | VV | 291 | 7007 | 0.18% | 0.072% |
| 226 | 15.500 | 15.459 | 15.535 | VV | 280 | 10551 | 0.28% | 0.108% |
| 227 | 15.577 | 15.535 | 15.606 | VV | 301 | 8890 | 0.23% | 0.091% |
| 228 | 15.675 | 15.606 | 15.708 | VV | 402 | 14356 | 0.38% | 0.148% |
| 229 | 15.763 | 15.708 | 15.838 | VV | 6190 | 99045 | 2.59% | 1.018% |
| 230 | 15.856 | 15.838 | 15.883 | VV | 262 | 4888 | 0.13% | 0.050% |
| 231 | 15.905 | 15.883 | 15.928 | VV | 337 | 5477 | 0.14% | 0.056% |
| 232 | 15.942 | 15.928 | 15.971 | VV | 357 | 7046 | 0.18% | 0.072% |
| 233 | 15.983 | 15.971 | 16.030 | VV | 326 | 8089 | 0.21% | 0.083% |
| 234 | 16.082 | 16.030 | 16.118 | VV | 721 | 23227 | 0.61% | 0.239% |
| 235 | 16.132 | 16.118 | 16.201 | VV | 438 | 13684 | 0.36% | 0.141% |
| 236 | 16.225 | 16.201 | 16.237 | VV | 685 | 9646 | 0.25% | 0.099% |
| 237 | 16.265 | 16.237 | 16.354 | VV | 7802 | 116097 | 3.04% | 1.193% |
| 238 | 16.365 | 16.354 | 16.383 | VV | 188 | 1658 | 0.04% | 0.017% |
| 239 | 16.442 | 16.383 | 16.530 | PV | 396 | 17465 | 0.46% | 0.179% |
| 240 | 16.575 | 16.530 | 16.608 | VV | 634 | 14556 | 0.38% | 0.150% |
| 241 | 16.626 | 16.608 | 16.671 | VV | 372 | 8008 | 0.21% | 0.082% |
| 242 | 16.749 | 16.671 | 16.788 | VV | 7699 | 110141 | 2.88% | 1.132% |
| 243 | 16.800 | 16.788 | 16.840 | VV | 274 | 4284 | 0.11% | 0.044% |
| 244 | 16.866 | 16.840 | 16.877 | VV | 205 | 3053 | 0.08% | 0.031% |
| 245 | 16.911 | 16.877 | 16.930 | VV | 363 | 7428 | 0.19% | 0.076% |
| 246 | 16.952 | 16.930 | 16.960 | VV | 290 | 4379 | 0.11% | 0.045% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 16.974 | 16.960 | 17.005 | VV | 319 | 6749 | 0.18% | 0.069% |
| 248 | 17.049 | 17.005 | 17.071 | VV | 513 | 11860 | 0.31% | 0.122% |
| 249 | 17.095 | 17.071 | 17.122 | VV | 541 | 10816 | 0.28% | 0.111% |
| 250 | 17.132 | 17.122 | 17.151 | VV | 242 | 3461 | 0.09% | 0.036% |
| 251 | 17.214 | 17.151 | 17.292 | VV | 7510 | 118113 | 3.09% | 1.214% |
| 252 | 17.346 | 17.292 | 17.408 | VV | 352 | 12241 | 0.32% | 0.126% |
| 253 | 17.455 | 17.408 | 17.488 | VV | 370 | 10150 | 0.27% | 0.104% |
| 254 | 17.506 | 17.488 | 17.531 | VV | 462 | 7141 | 0.19% | 0.073% |
| 255 | 17.551 | 17.531 | 17.575 | VV | 779 | 10286 | 0.27% | 0.106% |
| 256 | 17.595 | 17.575 | 17.618 | VV | 268 | 4206 | 0.11% | 0.043% |
| 257 | 17.666 | 17.618 | 17.713 | VV | 10836 | 156331 | 4.09% | 1.607% |
| 258 | 17.720 | 17.713 | 17.730 | VV | 75 | 442 | 0.01% | 0.005% |
| 259 | 17.786 | 17.730 | 17.840 | PV | 435 | 13001 | 0.34% | 0.134% |
| 260 | 17.947 | 17.840 | 17.975 | VV | 416 | 14987 | 0.39% | 0.154% |
| 261 | 17.996 | 17.975 | 18.027 | VV | 296 | 5509 | 0.14% | 0.057% |
| 262 | 18.103 | 18.027 | 18.137 | VV | 6792 | 102944 | 2.69% | 1.058% |
| 263 | 18.164 | 18.137 | 18.197 | VV | 186 | 3412 | 0.09% | 0.035% |
| 264 | 18.250 | 18.197 | 18.313 | VV | 603 | 22405 | 0.59% | 0.230% |
| 265 | 18.323 | 18.313 | 18.340 | VV | 132 | 1028 | 0.03% | 0.011% |
| 266 | 18.378 | 18.340 | 18.401 | PV | 415 | 8282 | 0.22% | 0.085% |
| 267 | 18.421 | 18.401 | 18.475 | VV | 411 | 8886 | 0.23% | 0.091% |
| 268 | 18.526 | 18.475 | 18.565 | VV | 6747 | 100337 | 2.62% | 1.031% |
| 269 | 18.581 | 18.565 | 18.591 | PV | 101 | 1035 | 0.03% | 0.011% |
| 270 | 18.619 | 18.591 | 18.637 | VV | 615 | 7960 | 0.21% | 0.082% |
| 271 | 18.660 | 18.637 | 18.701 | VV | 231 | 5856 | 0.15% | 0.060% |
| 272 | 18.787 | 18.701 | 18.814 | VV | 639 | 17202 | 0.45% | 0.177% |
| 273 | 18.831 | 18.814 | 18.858 | VV | 304 | 5737 | 0.15% | 0.059% |
| 274 | 18.869 | 18.858 | 18.878 | VV | 115 | 776 | 0.02% | 0.008% |
| 275 | 18.935 | 18.878 | 18.993 | PV | 4873 | 82540 | 2.16% | 0.848% |
| 276 | 19.017 | 18.993 | 19.062 | VV | 461 | 10413 | 0.27% | 0.107% |
| 277 | 19.087 | 19.062 | 19.121 | VV | 386 | 8469 | 0.22% | 0.087% |
| 278 | 19.134 | 19.121 | 19.163 | VV | 190 | 2998 | 0.08% | 0.031% |
| 279 | 19.189 | 19.163 | 19.209 | VV | 272 | 5037 | 0.13% | 0.052% |
| 280 | 19.238 | 19.209 | 19.278 | VV | 275 | 5089 | 0.13% | 0.052% |
| 281 | 19.333 | 19.278 | 19.363 | PV | 3799 | 60060 | 1.57% | 0.617% |
| 282 | 19.372 | 19.363 | 19.408 | VV | 458 | 7735 | 0.20% | 0.079% |
| 283 | 19.511 | 19.408 | 19.555 | VV | 377 | 19034 | 0.50% | 0.196% |
| 284 | 19.581 | 19.555 | 19.600 | VV | 455 | 7991 | 0.21% | 0.082% |
| 285 | 19.624 | 19.600 | 19.645 | VV | 345 | 6890 | 0.18% | 0.071% |
| 286 | 19.719 | 19.645 | 19.798 | VV | 3386 | 73397 | 1.92% | 0.754% |
| 287 | 19.882 | 19.798 | 19.894 | VV | 445 | 20895 | 0.55% | 0.215% |
| 288 | 19.926 | 19.894 | 19.938 | VV | 480 | 11466 | 0.30% | 0.118% |
| 289 | 19.961 | 19.938 | 19.978 | VV | 604 | 12703 | 0.33% | 0.131% |
| 290 | 20.014 | 19.978 | 20.051 | VV | 668 | 24191 | 0.63% | 0.249% |
| 291 | 20.096 | 20.051 | 20.123 | VV | 2700 | 53372 | 1.40% | 0.549% |
| 292 | 20.151 | 20.123 | 20.175 | VV | 821 | 23673 | 0.62% | 0.243% |
| 293 | 20.259 | 20.175 | 20.267 | VV | 1062 | 48414 | 1.27% | 0.498% |
| 294 | 20.370 | 20.267 | 20.395 | VV | 1374 | 88386 | 2.31% | 0.908% |
| 295 | 20.461 | 20.395 | 20.488 | VV | 3311 | 102758 | 2.69% | 1.056% |
| 296 | 20.526 | 20.488 | 20.544 | VV | 1779 | 56037 | 1.47% | 0.576% |
| 297 | 20.651 | 20.544 | 20.671 | VV | 2282 | 153358 | 4.01% | 1.576% |
| 298 | 20.733 | 20.671 | 20.756 | VV | 2510 | 119163 | 3.12% | 1.225% |
| 299 | 20.819 | 20.756 | 20.881 | VV | 3507 | 188931 | 4.94% | 1.942% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 20.995 | 20.881 | 21.006 | VV | 2480 | 170277 | 4.45% | 1.750% |
| 301 | 21.012 | 21.006 | 21.041 | VV | 2392 | 48671 | 1.27% | 0.500% |
| 302 | 21.208 | 21.041 | 21.259 | VV | 3140 | 290895 | 7.61% | 2.990% |
| 303 | 21.293 | 21.259 | 21.331 | VV | 1918 | 80447 | 2.10% | 0.827% |
| 304 | 21.345 | 21.331 | 21.360 | VV | 1812 | 31195 | 0.82% | 0.321% |
| 305 | 21.384 | 21.360 | 21.451 | VV | 1767 | 89837 | 2.35% | 0.923% |
| 306 | 21.485 | 21.451 | 21.501 | VV | 1582 | 46207 | 1.21% | 0.475% |
| 307 | 21.556 | 21.501 | 21.615 | VV | 1634 | 104207 | 2.73% | 1.071% |
| 308 | 21.649 | 21.615 | 21.740 | VV | 1752 | 101852 | 2.66% | 1.047% |
| 309 | 21.762 | 21.740 | 21.832 | VV | 1075 | 51612 | 1.35% | 0.530% |
| 310 | 21.849 | 21.832 | 21.868 | VV | 796 | 16874 | 0.44% | 0.173% |
| 311 | 21.878 | 21.868 | 21.895 | VV | 708 | 11095 | 0.29% | 0.114% |
| 312 | 21.947 | 21.895 | 21.961 | VV | 667 | 25792 | 0.67% | 0.265% |
| 313 | 21.968 | 21.961 | 21.979 | VV | 659 | 6685 | 0.17% | 0.069% |
| 314 | 22.015 | 21.979 | 22.028 | VV | 554 | 15618 | 0.41% | 0.161% |
| 315 | 22.045 | 22.028 | 22.071 | VV | 483 | 11723 | 0.31% | 0.120% |
| 316 | 22.144 | 22.071 | 22.186 | VV | 811 | 33564 | 0.88% | 0.345% |
| 317 | 22.205 | 22.186 | 22.251 | VBA | 220 | 12879 | 0.34% | 0.132% |

Sum of corrected areas: 9729746

Aliphatic EPH 111424.M Wed Nov 20 01:28:25 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 13:43 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.03 | mg/kg | FG014869.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.49 | J | 1 | 0.25 | 0.69 | mg/kg | FG014869.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 3.72 | | 1 | 0.31 | 1.03 | mg/kg | FG014869.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 7.06 | | 1 | 0.83 | 1.38 | mg/kg | FG014869.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 7.02 | | 1 | 1.86 | 2.06 | mg/kg | FG014869.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.69 | mg/kg | FD048761.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 2.82 | | 1 | 0.35 | 1.03 | mg/kg | FD048761.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 2.37 | | 1 | 0.99 | 1.72 | mg/kg | FD048761.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 5.82 | | 1 | 2.06 | 2.75 | mg/kg | FD048761.D |
| Total AliphaticEPH | Total AliphaticEPH | 18.3 | | | 3.64 | 6.19 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 11.0 | | | 3.71 | 6.19 | mg/kg | |
| Total EPH | Total EPH | 29.3 | | | 7.35 | 12.4 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048761.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.69 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 2.82 | | 0.35 | 1.03 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 2.37 | | 0.99 | 1.72 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 5.82 | | 2.06 | 2.75 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 57.4 | | 40 - 140 | 115% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 58.9 | | 40 - 140 | 118% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 33.6 | | 40 - 140 | 67% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-02 | Acq On: | 18 Nov 2024 11:41 |
| Client Sample ID: | PH2-BOT-001 | Operator: | YP/AJ |
| Data file: | FD048761.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 64 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 734678 | 3.826 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 7878386 | 40.935 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 6407951 | 34.488 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 13308598 | 84.644 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 28329613 | 163.893 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.366 | 7.366 | 10111530 | 57.43 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.215 | 8.215 | 6778668 | 58.86 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.252 | 11.252 | 6471330 | 33.65 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048761.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 11:41
Operator : YP/AJ
Sample : P4860-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-001

Integration File: sample.E
Quant Time: Nov 19 05:55:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 4) S 2-Bromonaphthalene (S... | 7.366 | 10111530 | 57.433 ug/ml |
| Spiked Amount 50.000 | | Recovery = 114.87% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.215 | 6778668 | 58.858 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 117.72% | |
| 11) S ortho-Terphenyl (SURR) | 11.252 | 6471330 | 33.646 ug/ml |
| Spiked Amount 50.000 | | Recovery = 67.29% | |
| Target Compounds | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

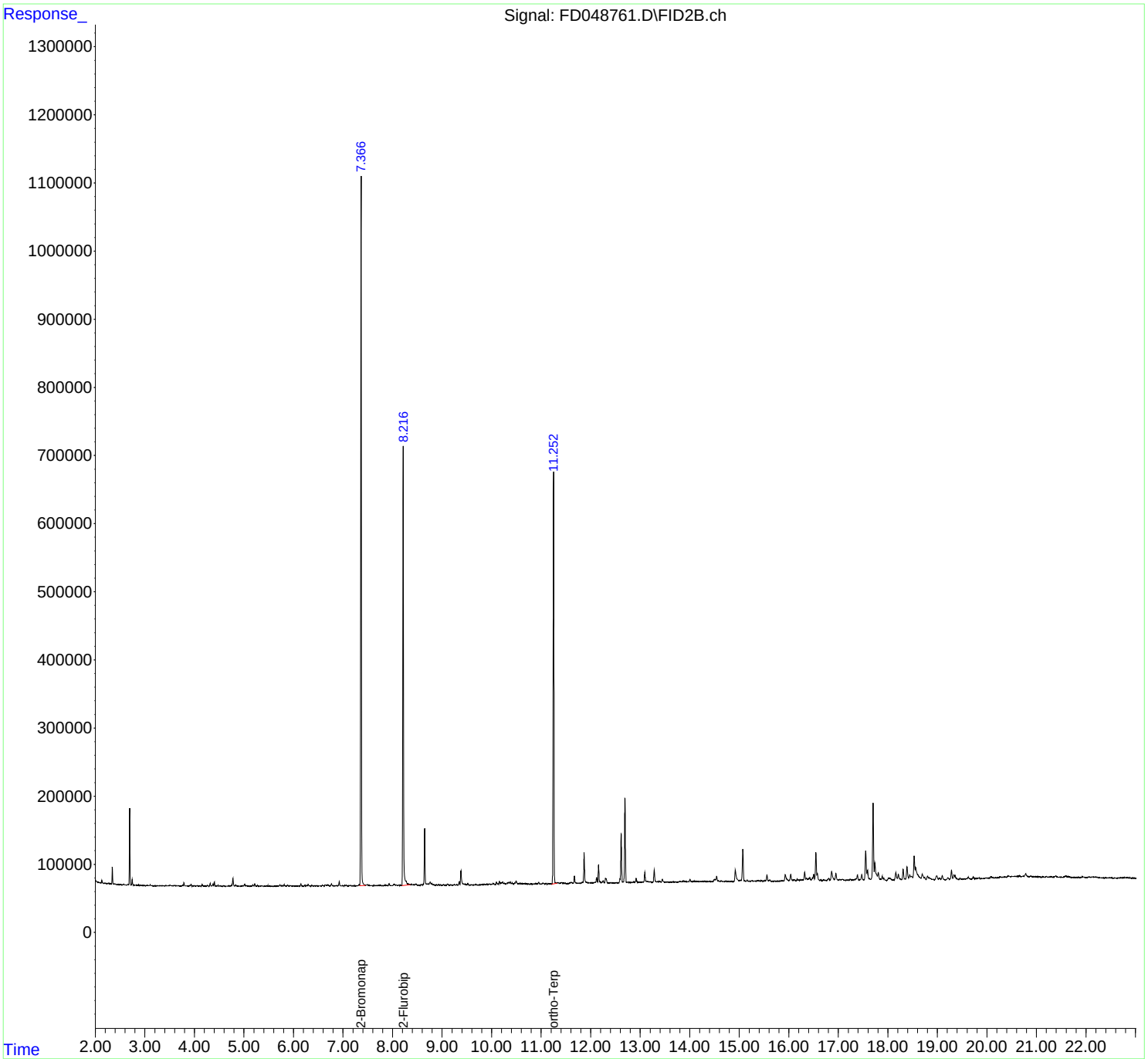
Quantitation Report (QT Reviewed)

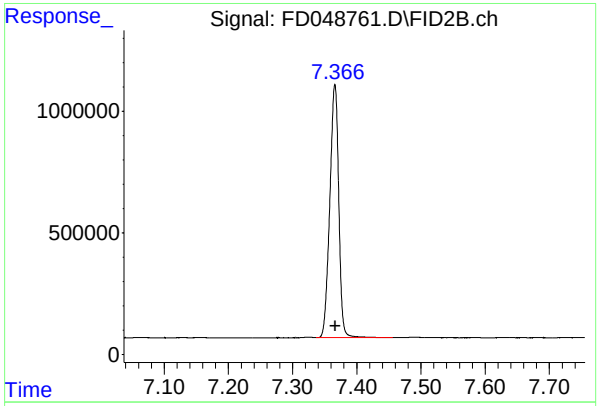
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048761.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 11:41
Operator : YP/AJ
Sample : P4860-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-001

Integration File: sample.E
Quant Time: Nov 19 05:55:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

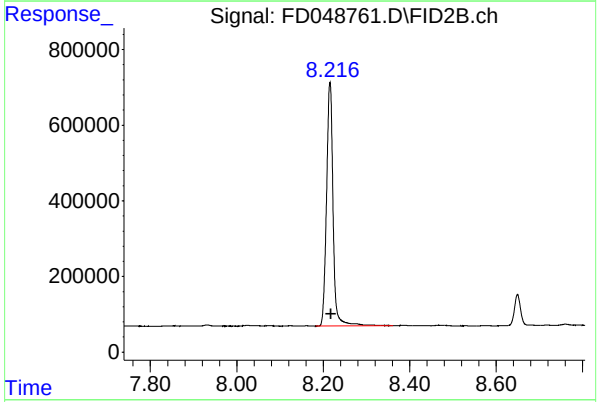





#4 2-Bromonaphthalene (SURR)

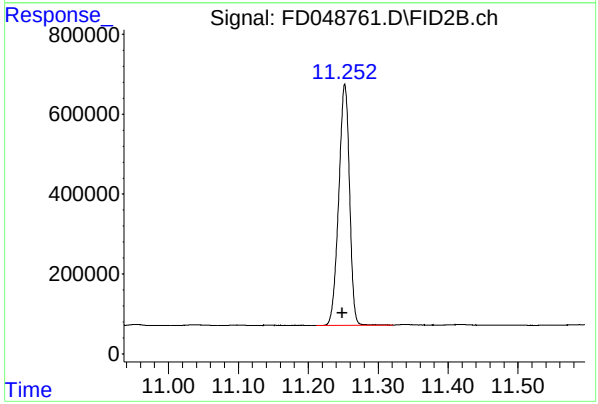
R.T.: 7.366 min
Delta R.T.: 0.000 min
Response: 10111530
Conc: 57.43 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-001




#6 2-Flurobiphenyl (SURR)

R.T.: 8.215 min
Delta R.T.: -0.003 min
Response: 6778668
Conc: 58.86 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.252 min
Delta R.T.: 0.004 min
Response: 6471330
Conc: 33.65 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048761.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 11:41
Sample : P4860-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.055 | 4.042 | 4.092 | PH | 544 | 7501 | 0.07% | 0.017% |
| 2 | 4.100 | 4.092 | 4.121 | PV | 334 | 2748 | 0.03% | 0.006% |
| 3 | 4.156 | 4.135 | 4.181 | VV | 2955 | 29999 | 0.30% | 0.066% |
| 4 | 4.196 | 4.181 | 4.220 | VV | 325 | 4587 | 0.05% | 0.010% |
| 5 | 4.224 | 4.220 | 4.237 | VV | 205 | 1167 | 0.01% | 0.003% |
| 6 | 4.264 | 4.237 | 4.288 | PV | 1282 | 15306 | 0.15% | 0.034% |
| 7 | 4.319 | 4.288 | 4.341 | VV | 4351 | 48270 | 0.47% | 0.107% |
| 8 | 4.350 | 4.341 | 4.358 | VV | 584 | 4669 | 0.05% | 0.010% |
| 9 | 4.374 | 4.358 | 4.388 | VV | 3292 | 32144 | 0.32% | 0.071% |
| 10 | 4.404 | 4.388 | 4.424 | VV | 6171 | 60105 | 0.59% | 0.133% |
| 11 | 4.432 | 4.424 | 4.441 | VV | 399 | 2746 | 0.03% | 0.006% |
| 12 | 4.475 | 4.441 | 4.492 | VV | 1679 | 17953 | 0.18% | 0.040% |
| 13 | 4.514 | 4.492 | 4.549 | VV | 897 | 16147 | 0.16% | 0.036% |
| 14 | 4.563 | 4.549 | 4.569 | PV | 265 | 1960 | 0.02% | 0.004% |
| 15 | 4.590 | 4.569 | 4.627 | VV | 746 | 12998 | 0.13% | 0.029% |
| 16 | 4.653 | 4.627 | 4.669 | VV | 335 | 5334 | 0.05% | 0.012% |
| 17 | 4.680 | 4.675 | 4.685 | VV | 388 | 1645 | 0.02% | 0.004% |
| 18 | 4.699 | 4.685 | 4.719 | VV | 858 | 11513 | 0.11% | 0.026% |
| 19 | 4.724 | 4.719 | 4.734 | VV | 477 | 2932 | 0.03% | 0.006% |
| 20 | 4.755 | 4.734 | 4.760 | VV | 2125 | 18180 | 0.18% | 0.040% |
| 21 | 4.777 | 4.760 | 4.810 | VV | 11780 | 139116 | 1.37% | 0.308% |
| 22 | 4.833 | 4.810 | 4.855 | VV | 2365 | 27040 | 0.27% | 0.060% |
| 23 | 4.861 | 4.855 | 4.869 | VV | 542 | 3355 | 0.03% | 0.007% |
| 24 | 4.874 | 4.869 | 4.881 | VV | 424 | 2629 | 0.03% | 0.006% |
| 25 | 4.889 | 4.881 | 4.913 | VV | 439 | 5437 | 0.05% | 0.012% |
| 26 | 4.921 | 4.913 | 4.931 | VV | 388 | 2151 | 0.02% | 0.005% |
| 27 | 4.947 | 4.931 | 4.954 | VV | 314 | 3092 | 0.03% | 0.007% |
| 28 | 4.967 | 4.954 | 4.986 | VV | 719 | 8236 | 0.08% | 0.018% |
| 29 | 5.011 | 4.986 | 5.046 | VV | 2899 | 43869 | 0.43% | 0.097% |
| 30 | 5.050 | 5.046 | 5.100 | VV | 742 | 13820 | 0.14% | 0.031% |
| 31 | 5.108 | 5.100 | 5.126 | VV | 311 | 3182 | 0.03% | 0.007% |
| 32 | 5.146 | 5.126 | 5.157 | VV | 659 | 6482 | 0.06% | 0.014% |
| 33 | 5.179 | 5.157 | 5.200 | VV | 2152 | 26319 | 0.26% | 0.058% |
| 34 | 5.218 | 5.200 | 5.242 | VV | 3936 | 42166 | 0.41% | 0.093% |
| 35 | 5.273 | 5.242 | 5.299 | VV | 1011 | 14254 | 0.14% | 0.032% |
| 36 | 5.320 | 5.299 | 5.325 | VV | 271 | 2228 | 0.02% | 0.005% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.343 | 5.325 | 5.352 | VV | 503 | 5839 | 0.06% | 0.013% |
| 38 | 5.358 | 5.352 | 5.409 | VV | 546 | 9613 | 0.09% | 0.021% |
| 39 | 5.424 | 5.409 | 5.438 | VV | 304 | 3039 | 0.03% | 0.007% |
| 40 | 5.466 | 5.438 | 5.495 | VV | 719 | 13006 | 0.13% | 0.029% |
| 41 | 5.506 | 5.495 | 5.514 | VV | 382 | 2801 | 0.03% | 0.006% |
| 42 | 5.520 | 5.514 | 5.529 | VV | 348 | 2014 | 0.02% | 0.004% |
| 43 | 5.542 | 5.529 | 5.576 | VV | 375 | 4504 | 0.04% | 0.010% |
| 44 | 5.606 | 5.594 | 5.612 | VV | 211 | 1317 | 0.01% | 0.003% |
| 45 | 5.623 | 5.612 | 5.647 | VV | 374 | 3991 | 0.04% | 0.009% |
| 46 | 5.669 | 5.647 | 5.684 | VV | 380 | 5233 | 0.05% | 0.012% |
| 47 | 5.724 | 5.684 | 5.749 | VV | 1923 | 31523 | 0.31% | 0.070% |
| 48 | 5.754 | 5.749 | 5.758 | VV | 803 | 3787 | 0.04% | 0.008% |
| 49 | 5.768 | 5.758 | 5.792 | VV | 1139 | 14232 | 0.14% | 0.032% |
| 50 | 5.812 | 5.792 | 5.844 | VV | 2448 | 28347 | 0.28% | 0.063% |
| 51 | 5.849 | 5.844 | 5.853 | VV | 245 | 1034 | 0.01% | 0.002% |
| 52 | 5.881 | 5.853 | 5.914 | VV | 1968 | 28413 | 0.28% | 0.063% |
| 53 | 5.939 | 5.914 | 5.957 | VV | 995 | 16340 | 0.16% | 0.036% |
| 54 | 5.964 | 5.957 | 5.971 | VV | 373 | 2478 | 0.02% | 0.005% |
| 55 | 5.978 | 5.971 | 6.001 | VV | 393 | 4552 | 0.04% | 0.010% |
| 56 | 6.019 | 6.001 | 6.024 | VV | 447 | 4819 | 0.05% | 0.011% |
| 57 | 6.027 | 6.024 | 6.062 | VV | 446 | 5350 | 0.05% | 0.012% |
| 58 | 6.081 | 6.062 | 6.107 | VV | 287 | 4405 | 0.04% | 0.010% |
| 59 | 6.118 | 6.107 | 6.124 | VV | 281 | 1516 | 0.01% | 0.003% |
| 60 | 6.150 | 6.124 | 6.177 | VV | 3887 | 40054 | 0.39% | 0.089% |
| 61 | 6.193 | 6.177 | 6.207 | VV | 283 | 2544 | 0.03% | 0.006% |
| 62 | 6.231 | 6.207 | 6.254 | PV | 1658 | 18738 | 0.18% | 0.042% |
| 63 | 6.269 | 6.254 | 6.281 | VV | 1106 | 11389 | 0.11% | 0.025% |
| 64 | 6.298 | 6.281 | 6.317 | VV | 3108 | 32351 | 0.32% | 0.072% |
| 65 | 6.328 | 6.317 | 6.349 | VV | 821 | 8211 | 0.08% | 0.018% |
| 66 | 6.370 | 6.349 | 6.402 | VV | 1786 | 22301 | 0.22% | 0.049% |
| 67 | 6.427 | 6.402 | 6.444 | VV | 481 | 7922 | 0.08% | 0.018% |
| 68 | 6.464 | 6.444 | 6.497 | VV | 612 | 10715 | 0.11% | 0.024% |
| 69 | 6.522 | 6.497 | 6.532 | VV | 499 | 7276 | 0.07% | 0.016% |
| 70 | 6.544 | 6.532 | 6.553 | VV | 517 | 4926 | 0.05% | 0.011% |
| 71 | 6.586 | 6.553 | 6.619 | VV | 1952 | 28035 | 0.28% | 0.062% |
| 72 | 6.641 | 6.619 | 6.657 | VV | 1855 | 28894 | 0.28% | 0.064% |
| 73 | 6.661 | 6.657 | 6.675 | VV | 1239 | 11706 | 0.12% | 0.026% |
| 74 | 6.688 | 6.675 | 6.694 | VV | 1753 | 16245 | 0.16% | 0.036% |
| 75 | 6.700 | 6.694 | 6.734 | VV | 1723 | 23223 | 0.23% | 0.051% |
| 76 | 6.767 | 6.734 | 6.819 | VV | 3401 | 57229 | 0.56% | 0.127% |
| 77 | 6.845 | 6.819 | 6.858 | VV | 726 | 10825 | 0.11% | 0.024% |
| 78 | 6.870 | 6.858 | 6.886 | VV | 850 | 8797 | 0.09% | 0.019% |
| 79 | 6.925 | 6.886 | 6.962 | VV | 6797 | 83500 | 0.82% | 0.185% |
| 80 | 6.969 | 6.962 | 6.973 | VV | 354 | 1946 | 0.02% | 0.004% |
| 81 | 6.987 | 6.973 | 6.994 | VV | 836 | 7283 | 0.07% | 0.016% |
| 82 | 7.001 | 6.994 | 7.017 | VV | 677 | 5961 | 0.06% | 0.013% |
| 83 | 7.033 | 7.017 | 7.047 | PV | 1159 | 10639 | 0.10% | 0.024% |
| 84 | 7.066 | 7.047 | 7.086 | VV | 1551 | 21052 | 0.21% | 0.047% |
| 85 | 7.101 | 7.086 | 7.111 | VV | 528 | 4336 | 0.04% | 0.010% |
| 86 | 7.127 | 7.111 | 7.140 | VV | 904 | 10656 | 0.10% | 0.024% |
| 87 | 7.157 | 7.140 | 7.176 | VV | 1363 | 15293 | 0.15% | 0.034% |
| 88 | 7.207 | 7.190 | 7.220 | VV | 388 | 4398 | 0.04% | 0.010% |
| 89 | 7.227 | 7.220 | 7.234 | VV | 501 | 3043 | 0.03% | 0.007% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.238 | 7.234 | 7.249 | VV | 417 | 3146 | 0.03% | 0.007% |
| 91 | 7.259 | 7.249 | 7.264 | VV | 340 | 2338 | 0.02% | 0.005% |
| 92 | 7.278 | 7.264 | 7.292 | VV | 569 | 7432 | 0.07% | 0.016% |
| 93 | 7.301 | 7.292 | 7.308 | VV | 531 | 4598 | 0.05% | 0.010% |
| 94 | 7.325 | 7.308 | 7.338 | VV | 2417 | 27180 | 0.27% | 0.060% |
| 95 | 7.366 | 7.338 | 7.456 | VV | 1041263 | 10166708 | 100.00% | 22.528% |
| 96 | 7.488 | 7.456 | 7.540 | VV | 2176 | 60425 | 0.59% | 0.134% |
| 97 | 7.546 | 7.540 | 7.560 | VV | 626 | 5647 | 0.06% | 0.013% |
| 98 | 7.584 | 7.560 | 7.610 | VV | 656 | 11283 | 0.11% | 0.025% |
| 99 | 7.629 | 7.610 | 7.649 | VV | 1396 | 16716 | 0.16% | 0.037% |
| 100 | 7.657 | 7.649 | 7.667 | VV | 516 | 4847 | 0.05% | 0.011% |
| 101 | 7.683 | 7.667 | 7.706 | VV | 678 | 8644 | 0.09% | 0.019% |
| 102 | 7.723 | 7.706 | 7.736 | VV | 600 | 7334 | 0.07% | 0.016% |
| 103 | 7.753 | 7.736 | 7.784 | VV | 907 | 16495 | 0.16% | 0.037% |
| 104 | 7.795 | 7.784 | 7.806 | VV | 294 | 2542 | 0.03% | 0.006% |
| 105 | 7.832 | 7.806 | 7.840 | VV | 860 | 7220 | 0.07% | 0.016% |
| 106 | 7.855 | 7.840 | 7.870 | VV | 1178 | 15419 | 0.15% | 0.034% |
| 107 | 7.882 | 7.870 | 7.895 | VV | 859 | 9741 | 0.10% | 0.022% |
| 108 | 7.904 | 7.895 | 7.913 | VV | 622 | 5672 | 0.06% | 0.013% |
| 109 | 7.931 | 7.913 | 7.954 | VV | 3447 | 38580 | 0.38% | 0.085% |
| 110 | 7.957 | 7.954 | 7.990 | VV | 543 | 6930 | 0.07% | 0.015% |
| 111 | 7.994 | 7.990 | 8.000 | VV | 310 | 1602 | 0.02% | 0.004% |
| 112 | 8.024 | 8.000 | 8.061 | VV | 2063 | 46925 | 0.46% | 0.104% |
| 113 | 8.079 | 8.061 | 8.101 | VV | 1309 | 21121 | 0.21% | 0.047% |
| 114 | 8.123 | 8.101 | 8.145 | VV | 1162 | 16675 | 0.16% | 0.037% |
| 115 | 8.162 | 8.145 | 8.184 | VV | 1086 | 13298 | 0.13% | 0.029% |
| 116 | 8.216 | 8.184 | 8.268 | VV | 644804 | 6682172 | 65.73% | 14.807% |
| 117 | 8.275 | 8.268 | 8.305 | VV | 6781 | 102995 | 1.01% | 0.228% |
| 118 | 8.313 | 8.305 | 8.369 | VV | 2994 | 77885 | 0.77% | 0.173% |
| 119 | 8.387 | 8.369 | 8.407 | VV | 2029 | 36782 | 0.36% | 0.082% |
| 120 | 8.421 | 8.407 | 8.450 | VV | 1389 | 31440 | 0.31% | 0.070% |
| 121 | 8.468 | 8.450 | 8.508 | VV | 2502 | 50681 | 0.50% | 0.112% |
| 122 | 8.529 | 8.508 | 8.547 | VV | 1030 | 14529 | 0.14% | 0.032% |
| 123 | 8.576 | 8.547 | 8.599 | VV | 1487 | 25962 | 0.26% | 0.058% |
| 124 | 8.616 | 8.599 | 8.624 | VV | 1403 | 16501 | 0.16% | 0.037% |
| 125 | 8.649 | 8.624 | 8.675 | VV | 83774 | 840551 | 8.27% | 1.863% |
| 126 | 8.681 | 8.675 | 8.700 | VV | 2647 | 34044 | 0.33% | 0.075% |
| 127 | 8.718 | 8.700 | 8.735 | VV | 2978 | 48542 | 0.48% | 0.108% |
| 128 | 8.760 | 8.735 | 8.782 | VV | 5181 | 92016 | 0.91% | 0.204% |
| 129 | 8.793 | 8.782 | 8.819 | VV | 2825 | 45132 | 0.44% | 0.100% |
| 130 | 8.833 | 8.819 | 8.862 | VV | 1479 | 20483 | 0.20% | 0.045% |
| 131 | 8.884 | 8.862 | 8.907 | VV | 1164 | 16642 | 0.16% | 0.037% |
| 132 | 8.932 | 8.907 | 8.955 | VV | 1253 | 22983 | 0.23% | 0.051% |
| 133 | 8.969 | 8.955 | 8.990 | VV | 820 | 11184 | 0.11% | 0.025% |
| 134 | 9.009 | 8.990 | 9.015 | VV | 643 | 5530 | 0.05% | 0.012% |
| 135 | 9.029 | 9.015 | 9.062 | VV | 1138 | 20293 | 0.20% | 0.045% |
| 136 | 9.065 | 9.062 | 9.078 | VV | 327 | 2265 | 0.02% | 0.005% |
| 137 | 9.082 | 9.078 | 9.087 | VV | 223 | 1279 | 0.01% | 0.003% |
| 138 | 9.110 | 9.087 | 9.153 | VV | 2132 | 37099 | 0.36% | 0.082% |
| 139 | 9.180 | 9.153 | 9.210 | PV | 1149 | 20088 | 0.20% | 0.045% |
| 140 | 9.215 | 9.210 | 9.229 | VV | 539 | 4248 | 0.04% | 0.009% |
| 141 | 9.251 | 9.229 | 9.274 | VV | 1118 | 15929 | 0.16% | 0.035% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.305 | 9.274 | 9.325 | VV | 822 | 18626 | 0.18% | 0.041% |
| 143 | 9.346 | 9.325 | 9.363 | VV | 5155 | 59700 | 0.59% | 0.132% |
| 144 | 9.382 | 9.363 | 9.432 | VV | 21598 | 322207 | 3.17% | 0.714% |
| 145 | 9.438 | 9.432 | 9.452 | VV | 1792 | 19817 | 0.19% | 0.044% |
| 146 | 9.461 | 9.452 | 9.492 | VV | 1784 | 29011 | 0.29% | 0.064% |
| 147 | 9.521 | 9.492 | 9.565 | VV | 3024 | 54327 | 0.53% | 0.120% |
| 148 | 9.592 | 9.565 | 9.600 | VV | 858 | 11253 | 0.11% | 0.025% |
| 149 | 9.606 | 9.600 | 9.641 | VV | 841 | 10898 | 0.11% | 0.024% |
| 150 | 9.682 | 9.641 | 9.716 | PV | 1220 | 22837 | 0.22% | 0.051% |
| 151 | 9.726 | 9.716 | 9.742 | VV | 426 | 3498 | 0.03% | 0.008% |
| 152 | 9.760 | 9.742 | 9.779 | VV | 806 | 10413 | 0.10% | 0.023% |
| 153 | 9.791 | 9.779 | 9.810 | VV | 805 | 11364 | 0.11% | 0.025% |
| 154 | 9.839 | 9.810 | 9.857 | VV | 1075 | 21700 | 0.21% | 0.048% |
| 155 | 9.888 | 9.857 | 9.895 | VV | 1158 | 19339 | 0.19% | 0.043% |
| 156 | 9.908 | 9.895 | 9.929 | VV | 1610 | 23472 | 0.23% | 0.052% |
| 157 | 9.951 | 9.929 | 9.972 | VV | 1582 | 29697 | 0.29% | 0.066% |
| 158 | 9.978 | 9.972 | 9.987 | VV | 1185 | 9224 | 0.09% | 0.020% |
| 159 | 9.989 | 9.987 | 9.997 | VV | 1075 | 6084 | 0.06% | 0.013% |
| 160 | 10.000 | 9.997 | 10.009 | VV | 1099 | 6900 | 0.07% | 0.015% |
| 161 | 10.038 | 10.009 | 10.070 | VV | 2323 | 48958 | 0.48% | 0.108% |
| 162 | 10.098 | 10.070 | 10.130 | VV | 4400 | 75499 | 0.74% | 0.167% |
| 163 | 10.160 | 10.130 | 10.174 | VV | 5494 | 77440 | 0.76% | 0.172% |
| 164 | 10.185 | 10.174 | 10.199 | VV | 3288 | 38760 | 0.38% | 0.086% |
| 165 | 10.213 | 10.199 | 10.242 | VV | 3918 | 81309 | 0.80% | 0.180% |
| 166 | 10.254 | 10.242 | 10.284 | VV | 2390 | 44391 | 0.44% | 0.098% |
| 167 | 10.313 | 10.284 | 10.326 | VV | 2848 | 51977 | 0.51% | 0.115% |
| 168 | 10.337 | 10.326 | 10.357 | VV | 3131 | 53481 | 0.53% | 0.119% |
| 169 | 10.373 | 10.357 | 10.398 | VV | 4214 | 73471 | 0.72% | 0.163% |
| 170 | 10.416 | 10.398 | 10.439 | VV | 3059 | 47625 | 0.47% | 0.106% |
| 171 | 10.471 | 10.439 | 10.479 | VV | 2811 | 42564 | 0.42% | 0.094% |
| 172 | 10.497 | 10.479 | 10.543 | VV | 5367 | 108310 | 1.07% | 0.240% |
| 173 | 10.560 | 10.543 | 10.568 | VV | 1651 | 21607 | 0.21% | 0.048% |
| 174 | 10.587 | 10.568 | 10.607 | VV | 2148 | 38879 | 0.38% | 0.086% |
| 175 | 10.631 | 10.607 | 10.637 | VV | 1628 | 24729 | 0.24% | 0.055% |
| 176 | 10.642 | 10.637 | 10.657 | VV | 1735 | 17940 | 0.18% | 0.040% |
| 177 | 10.677 | 10.657 | 10.694 | VV | 2034 | 30597 | 0.30% | 0.068% |
| 178 | 10.705 | 10.694 | 10.727 | VV | 1342 | 18302 | 0.18% | 0.041% |
| 179 | 10.734 | 10.727 | 10.745 | VV | 882 | 7907 | 0.08% | 0.018% |
| 180 | 10.763 | 10.745 | 10.775 | VV | 935 | 13392 | 0.13% | 0.030% |
| 181 | 10.780 | 10.775 | 10.787 | VV | 688 | 4353 | 0.04% | 0.010% |
| 182 | 10.806 | 10.787 | 10.814 | VV | 1015 | 12864 | 0.13% | 0.029% |
| 183 | 10.818 | 10.814 | 10.835 | VV | 819 | 7961 | 0.08% | 0.018% |
| 184 | 10.890 | 10.835 | 10.908 | VV | 1720 | 40767 | 0.40% | 0.090% |
| 185 | 10.924 | 10.908 | 10.939 | VV | 1416 | 20648 | 0.20% | 0.046% |
| 186 | 10.953 | 10.939 | 10.977 | VV | 3287 | 43328 | 0.43% | 0.096% |
| 187 | 10.980 | 10.977 | 10.990 | VV | 561 | 4062 | 0.04% | 0.009% |
| 188 | 11.001 | 10.990 | 11.006 | VV | 586 | 4498 | 0.04% | 0.010% |
| 189 | 11.038 | 11.006 | 11.078 | VV | 2205 | 50520 | 0.50% | 0.112% |
| 190 | 11.099 | 11.078 | 11.126 | VV | 1679 | 27223 | 0.27% | 0.060% |
| 191 | 11.144 | 11.126 | 11.170 | VV | 1312 | 23086 | 0.23% | 0.051% |
| 192 | 11.191 | 11.170 | 11.210 | VV | 947 | 16483 | 0.16% | 0.037% |
| 193 | 11.252 | 11.210 | 11.289 | VV | 604776 | 6487978 | 63.82% | 14.377% |
| 194 | 11.297 | 11.289 | 11.321 | VV | 2354 | 38638 | 0.38% | 0.086% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.338 | 11.321 | 11.387 | VV | 2706 | 72318 | 0.71% | 0.160% |
| 196 | 11.419 | 11.387 | 11.458 | VV | 2582 | 74450 | 0.73% | 0.165% |
| 197 | 11.475 | 11.458 | 11.482 | VV | 1315 | 17114 | 0.17% | 0.038% |
| 198 | 11.486 | 11.482 | 11.492 | VV | 1196 | 6310 | 0.06% | 0.014% |
| 199 | 11.501 | 11.492 | 11.526 | VV | 1280 | 16465 | 0.16% | 0.036% |
| 200 | 11.539 | 11.526 | 11.558 | VV | 923 | 15081 | 0.15% | 0.033% |
| 201 | 11.606 | 11.558 | 11.649 | VV | 2886 | 94207 | 0.93% | 0.209% |
| 202 | 11.671 | 11.649 | 11.697 | VV | 11692 | 145436 | 1.43% | 0.322% |
| 203 | 11.705 | 11.697 | 11.735 | VV | 1766 | 29146 | 0.29% | 0.065% |
| 204 | 11.749 | 11.735 | 11.763 | VV | 1376 | 19541 | 0.19% | 0.043% |
| 205 | 11.776 | 11.763 | 11.793 | VV | 1289 | 20859 | 0.21% | 0.046% |
| 206 | 11.830 | 11.793 | 11.844 | VV | 2652 | 55392 | 0.54% | 0.123% |
| 207 | 11.869 | 11.844 | 11.935 | VV | 46059 | 623684 | 6.13% | 1.382% |
| 208 | 11.939 | 11.935 | 11.943 | VV | 1611 | 7059 | 0.07% | 0.016% |
| 209 | 11.945 | 11.943 | 11.957 | VV | 1602 | 12513 | 0.12% | 0.028% |
| 210 | 11.963 | 11.957 | 11.984 | VV | 1446 | 21695 | 0.21% | 0.048% |
| 211 | 11.992 | 11.984 | 12.010 | VV | 1664 | 22554 | 0.22% | 0.050% |
| 212 | 12.024 | 12.010 | 12.055 | VV | 1602 | 37642 | 0.37% | 0.083% |
| 213 | 12.086 | 12.055 | 12.100 | VV | 2338 | 51679 | 0.51% | 0.115% |
| 214 | 12.121 | 12.100 | 12.138 | VV | 9174 | 124126 | 1.22% | 0.275% |
| 215 | 12.159 | 12.138 | 12.181 | VV | 27590 | 326428 | 3.21% | 0.723% |
| 216 | 12.192 | 12.181 | 12.210 | VV | 3259 | 45568 | 0.45% | 0.101% |
| 217 | 12.232 | 12.210 | 12.238 | VV | 2367 | 31624 | 0.31% | 0.070% |
| 218 | 12.254 | 12.238 | 12.275 | VV | 4279 | 61871 | 0.61% | 0.137% |
| 219 | 12.300 | 12.275 | 12.362 | VV | 8003 | 188173 | 1.85% | 0.417% |
| 220 | 12.395 | 12.362 | 12.410 | VV | 1155 | 26035 | 0.26% | 0.058% |
| 221 | 12.418 | 12.410 | 12.432 | VV | 1178 | 12221 | 0.12% | 0.027% |
| 222 | 12.439 | 12.432 | 12.450 | VV | 767 | 7127 | 0.07% | 0.016% |
| 223 | 12.456 | 12.450 | 12.462 | VV | 676 | 4511 | 0.04% | 0.010% |
| 224 | 12.471 | 12.462 | 12.475 | VV | 793 | 5763 | 0.06% | 0.013% |
| 225 | 12.493 | 12.475 | 12.502 | VV | 1089 | 14398 | 0.14% | 0.032% |
| 226 | 12.521 | 12.502 | 12.530 | VV | 1248 | 18206 | 0.18% | 0.040% |
| 227 | 12.534 | 12.530 | 12.545 | VV | 1142 | 9083 | 0.09% | 0.020% |
| 228 | 12.548 | 12.545 | 12.562 | VV | 914 | 8374 | 0.08% | 0.019% |
| 229 | 12.617 | 12.562 | 12.645 | VV | 72642 | 901941 | 8.87% | 1.999% |
| 230 | 12.692 | 12.645 | 12.724 | VV | 124977 | 1515663 | 14.91% | 3.359% |
| 231 | 12.741 | 12.724 | 12.795 | VV | 1919 | 65801 | 0.65% | 0.146% |
| 232 | 12.803 | 12.795 | 12.835 | VV | 1297 | 26300 | 0.26% | 0.058% |
| 233 | 12.863 | 12.835 | 12.885 | VV | 2377 | 52955 | 0.52% | 0.117% |
| 234 | 12.917 | 12.885 | 12.959 | VV | 7368 | 138467 | 1.36% | 0.307% |
| 235 | 12.985 | 12.959 | 13.012 | VV | 1736 | 45887 | 0.45% | 0.102% |
| 236 | 13.018 | 13.012 | 13.030 | VV | 1460 | 13977 | 0.14% | 0.031% |
| 237 | 13.053 | 13.030 | 13.061 | VV | 1962 | 30589 | 0.30% | 0.068% |
| 238 | 13.092 | 13.061 | 13.155 | VV | 16409 | 287360 | 2.83% | 0.637% |
| 239 | 13.167 | 13.155 | 13.182 | VV | 2467 | 33871 | 0.33% | 0.075% |
| 240 | 13.200 | 13.182 | 13.209 | VV | 2161 | 31399 | 0.31% | 0.070% |
| 241 | 13.212 | 13.209 | 13.232 | VV | 2028 | 22933 | 0.23% | 0.051% |
| 242 | 13.239 | 13.232 | 13.249 | VV | 1309 | 12920 | 0.13% | 0.029% |
| 243 | 13.281 | 13.249 | 13.335 | VV | 19499 | 303634 | 2.99% | 0.673% |
| 244 | 13.353 | 13.335 | 13.359 | VV | 2103 | 27401 | 0.27% | 0.061% |
| 245 | 13.362 | 13.359 | 13.375 | VV | 2209 | 19712 | 0.19% | 0.044% |
| 246 | 13.398 | 13.375 | 13.421 | VV | 2685 | 54068 | 0.53% | 0.120% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.445 | 13.421 | 13.495 | VV | 5480 | 112652 | 1.11% | 0.250% |
| 248 | 13.506 | 13.495 | 13.515 | VV | 1462 | 15935 | 0.16% | 0.035% |
| 249 | 13.519 | 13.515 | 13.534 | VV | 1366 | 13064 | 0.13% | 0.029% |
| 250 | 13.540 | 13.534 | 13.546 | VV | 1263 | 8782 | 0.09% | 0.019% |
| 251 | 13.549 | 13.546 | 13.554 | VV | 1225 | 5661 | 0.06% | 0.013% |
| 252 | 13.569 | 13.554 | 13.603 | VV | 1306 | 30983 | 0.30% | 0.069% |
| 253 | 13.632 | 13.603 | 13.645 | VV | 1435 | 29893 | 0.29% | 0.066% |
| 254 | 13.673 | 13.645 | 13.689 | VV | 1618 | 35669 | 0.35% | 0.079% |
| 255 | 13.703 | 13.689 | 13.725 | VV | 1386 | 26035 | 0.26% | 0.058% |
| 256 | 13.735 | 13.725 | 13.755 | VV | 1405 | 21527 | 0.21% | 0.048% |
| 257 | 13.806 | 13.755 | 13.834 | VV | 2134 | 74530 | 0.73% | 0.165% |
| 258 | 13.879 | 13.834 | 13.905 | VV | 2999 | 85444 | 0.84% | 0.189% |
| 259 | 13.925 | 13.905 | 13.949 | VV | 1867 | 43071 | 0.42% | 0.095% |
| 260 | 13.955 | 13.949 | 13.969 | VV | 1539 | 17121 | 0.17% | 0.038% |
| 261 | 14.005 | 13.969 | 14.028 | VV | 5117 | 95124 | 0.94% | 0.211% |
| 262 | 14.038 | 14.028 | 14.055 | VV | 1705 | 24589 | 0.24% | 0.054% |
| 263 | 14.095 | 14.055 | 14.109 | VV | 2270 | 58829 | 0.58% | 0.130% |
| 264 | 14.135 | 14.109 | 14.151 | VV | 2057 | 43156 | 0.42% | 0.096% |
| 265 | 14.172 | 14.151 | 14.192 | VV | 2098 | 42420 | 0.42% | 0.094% |
| 266 | 14.220 | 14.192 | 14.234 | VV | 1998 | 40471 | 0.40% | 0.090% |
| 267 | 14.240 | 14.234 | 14.246 | VV | 1606 | 11059 | 0.11% | 0.025% |
| 268 | 14.256 | 14.246 | 14.262 | VV | 1640 | 13757 | 0.14% | 0.030% |
| 269 | 14.266 | 14.262 | 14.274 | VV | 1709 | 10929 | 0.11% | 0.024% |
| 270 | 14.279 | 14.274 | 14.282 | VV | 1558 | 7115 | 0.07% | 0.016% |
| 271 | 14.304 | 14.282 | 14.342 | VV | 2194 | 59107 | 0.58% | 0.131% |
| 272 | 14.348 | 14.342 | 14.372 | VV | 1451 | 22484 | 0.22% | 0.050% |
| 273 | 14.396 | 14.372 | 14.414 | VV | 1647 | 35938 | 0.35% | 0.080% |
| 274 | 14.418 | 14.414 | 14.438 | VV | 1356 | 17898 | 0.18% | 0.040% |
| 275 | 14.503 | 14.438 | 14.522 | VV | 4445 | 130368 | 1.28% | 0.289% |
| 276 | 14.542 | 14.522 | 14.571 | VV | 8939 | 146777 | 1.44% | 0.325% |
| 277 | 14.585 | 14.571 | 14.610 | VV | 2214 | 41238 | 0.41% | 0.091% |
| 278 | 14.635 | 14.610 | 14.665 | VV | 2081 | 56000 | 0.55% | 0.124% |
| 279 | 14.674 | 14.665 | 14.684 | VV | 1376 | 14478 | 0.14% | 0.032% |
| 280 | 14.688 | 14.684 | 14.700 | VV | 1281 | 11231 | 0.11% | 0.025% |
| 281 | 14.719 | 14.700 | 14.739 | VV | 1984 | 35436 | 0.35% | 0.079% |
| 282 | 14.746 | 14.739 | 14.768 | VV | 1382 | 20567 | 0.20% | 0.046% |
| 283 | 14.790 | 14.768 | 14.821 | VV | 1620 | 37279 | 0.37% | 0.083% |
| 284 | 14.838 | 14.821 | 14.862 | VV | 1456 | 27367 | 0.27% | 0.061% |
| 285 | 14.877 | 14.862 | 14.892 | VV | 1185 | 18152 | 0.18% | 0.040% |
| 286 | 14.918 | 14.892 | 14.991 | VV | 18012 | 407545 | 4.01% | 0.903% |
| 287 | 15.003 | 14.991 | 15.012 | VV | 2765 | 32163 | 0.32% | 0.071% |
| 288 | 15.027 | 15.012 | 15.039 | VV | 3182 | 43240 | 0.43% | 0.096% |
| 289 | 15.071 | 15.039 | 15.099 | VV | 48088 | 686610 | 6.75% | 1.521% |
| 290 | 15.110 | 15.099 | 15.130 | VV | 2203 | 31421 | 0.31% | 0.070% |
| 291 | 15.156 | 15.130 | 15.183 | VV | 2931 | 56457 | 0.56% | 0.125% |
| 292 | 15.192 | 15.183 | 15.200 | VV | 1323 | 12557 | 0.12% | 0.028% |
| 293 | 15.207 | 15.200 | 15.217 | VV | 1264 | 11385 | 0.11% | 0.025% |
| 294 | 15.259 | 15.217 | 15.280 | VV | 2214 | 59809 | 0.59% | 0.133% |
| 295 | 15.291 | 15.280 | 15.299 | VV | 1540 | 16263 | 0.16% | 0.036% |
| 296 | 15.305 | 15.299 | 15.329 | VV | 1512 | 24567 | 0.24% | 0.054% |
| 297 | 15.331 | 15.329 | 15.342 | VV | 1284 | 10125 | 0.10% | 0.022% |
| 298 | 15.383 | 15.342 | 15.410 | VV | 2074 | 65064 | 0.64% | 0.144% |
| 299 | 15.445 | 15.410 | 15.454 | VV | 1669 | 36900 | 0.36% | 0.082% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 15.458 | 15.454 | 15.502 | VV | 1543 | 34649 | 0.34% | 0.077% |
| 301 | 15.522 | 15.502 | 15.532 | VV | 2143 | 32338 | 0.32% | 0.072% |
| 302 | 15.557 | 15.532 | 15.588 | VV | 9972 | 154035 | 1.52% | 0.341% |
| 303 | 15.616 | 15.588 | 15.654 | VV | 2681 | 61325 | 0.60% | 0.136% |
| 304 | 15.658 | 15.654 | 15.663 | VV | 837 | 4183 | 0.04% | 0.009% |
| 305 | 15.668 | 15.663 | 15.685 | VV | 839 | 7749 | 0.08% | 0.017% |
| 306 | 15.717 | 15.685 | 15.724 | VV | 1131 | 19735 | 0.19% | 0.044% |
| 307 | 15.729 | 15.724 | 15.755 | VV | 1063 | 15483 | 0.15% | 0.034% |
| 308 | 15.764 | 15.755 | 15.777 | VV | 887 | 10121 | 0.10% | 0.022% |
| 309 | 15.795 | 15.777 | 15.817 | VV | 994 | 18800 | 0.18% | 0.042% |
| 310 | 15.849 | 15.817 | 15.855 | VV | 1308 | 22340 | 0.22% | 0.050% |
| 311 | 15.872 | 15.855 | 15.890 | VV | 1615 | 26772 | 0.26% | 0.059% |
| 312 | 15.928 | 15.890 | 16.009 | VV | 10183 | 272290 | 2.68% | 0.603% |
| 313 | 16.038 | 16.009 | 16.087 | VV | 10734 | 198687 | 1.95% | 0.440% |
| 314 | 16.112 | 16.087 | 16.145 | VV | 3058 | 70584 | 0.69% | 0.156% |
| 315 | 16.169 | 16.145 | 16.187 | VV | 3522 | 57062 | 0.56% | 0.126% |
| 316 | 16.198 | 16.187 | 16.214 | VV | 2308 | 33122 | 0.33% | 0.073% |
| 317 | 16.228 | 16.214 | 16.245 | VV | 2298 | 38782 | 0.38% | 0.086% |
| 318 | 16.261 | 16.245 | 16.265 | VV | 2412 | 26035 | 0.26% | 0.058% |
| 319 | 16.270 | 16.265 | 16.290 | VV | 2480 | 33693 | 0.33% | 0.075% |
| 320 | 16.319 | 16.290 | 16.341 | VV | 13568 | 211892 | 2.08% | 0.470% |
| 321 | 16.356 | 16.341 | 16.375 | VV | 4925 | 80327 | 0.79% | 0.178% |
| 322 | 16.390 | 16.375 | 16.399 | VV | 3751 | 45742 | 0.45% | 0.101% |
| 323 | 16.416 | 16.399 | 16.451 | VV | 4789 | 116158 | 1.14% | 0.257% |
| 324 | 16.476 | 16.451 | 16.484 | VV | 4794 | 69393 | 0.68% | 0.154% |
| 325 | 16.503 | 16.484 | 16.522 | VV | 10168 | 153002 | 1.50% | 0.339% |
| 326 | 16.546 | 16.522 | 16.567 | VV | 42586 | 583572 | 5.74% | 1.293% |
| 327 | 16.576 | 16.567 | 16.625 | VV | 11692 | 173268 | 1.70% | 0.384% |
| 328 | 16.636 | 16.625 | 16.641 | VV | 1617 | 13078 | 0.13% | 0.029% |
| 329 | 16.649 | 16.641 | 16.657 | VV | 1544 | 13167 | 0.13% | 0.029% |
| 330 | 16.661 | 16.657 | 16.677 | VV | 1317 | 13701 | 0.13% | 0.030% |
| 331 | 16.706 | 16.677 | 16.741 | VV | 1861 | 49990 | 0.49% | 0.111% |
| 332 | 16.747 | 16.741 | 16.755 | VV | 1209 | 8701 | 0.09% | 0.019% |
| 333 | 16.759 | 16.755 | 16.763 | VV | 1065 | 4719 | 0.05% | 0.010% |
| 334 | 16.804 | 16.763 | 16.837 | VV | 4215 | 111762 | 1.10% | 0.248% |
| 335 | 16.864 | 16.837 | 16.922 | VV | 13805 | 318109 | 3.13% | 0.705% |
| 336 | 16.950 | 16.922 | 16.999 | VV | 11200 | 208574 | 2.05% | 0.462% |
| 337 | 17.032 | 16.999 | 17.045 | VV | 2178 | 49882 | 0.49% | 0.111% |
| 338 | 17.068 | 17.045 | 17.074 | VV | 2139 | 30606 | 0.30% | 0.068% |
| 339 | 17.087 | 17.074 | 17.127 | VV | 2273 | 53609 | 0.53% | 0.119% |
| 340 | 17.135 | 17.127 | 17.149 | VV | 1112 | 13424 | 0.13% | 0.030% |
| 341 | 17.179 | 17.149 | 17.214 | VV | 1548 | 44300 | 0.44% | 0.098% |
| 342 | 17.242 | 17.214 | 17.262 | VV | 2255 | 45501 | 0.45% | 0.101% |
| 343 | 17.274 | 17.262 | 17.297 | VV | 1717 | 29340 | 0.29% | 0.065% |
| 344 | 17.316 | 17.297 | 17.334 | VV | 1805 | 34405 | 0.34% | 0.076% |
| 345 | 17.354 | 17.334 | 17.364 | VV | 2981 | 44718 | 0.44% | 0.099% |
| 346 | 17.385 | 17.364 | 17.417 | VV | 8584 | 136468 | 1.34% | 0.302% |
| 347 | 17.433 | 17.417 | 17.446 | VV | 1532 | 23226 | 0.23% | 0.051% |
| 348 | 17.472 | 17.446 | 17.504 | VV | 8899 | 149658 | 1.47% | 0.332% |
| 349 | 17.516 | 17.504 | 17.521 | VV | 1430 | 14285 | 0.14% | 0.032% |
| 350 | 17.551 | 17.521 | 17.576 | VV | 44155 | 676208 | 6.65% | 1.498% |
| 351 | 17.590 | 17.576 | 17.617 | VV | 15422 | 240190 | 2.36% | 0.532% |

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|---|---|---|---|---|---|---|---|---|
| 352 | 17.626 | 17.617 | 17.649 | VV | 3236 | 47094 | 0.46% | 0.104% |
| 353 | 17.702 | 17.649 | 17.723 | VV | 113580 | 1578831 | 15.53% | 3.499% |
| 354 | 17.737 | 17.723 | 17.787 | VV | 26226 | 544771 | 5.36% | 1.207% |
| 355 | 17.807 | 17.787 | 17.867 | VV | 11751 | 243830 | 2.40% | 0.540% |
| 356 | 17.885 | 17.867 | 17.909 | VV | 6504 | 101235 | 1.00% | 0.224% |
| 357 | 17.917 | 17.909 | 17.977 | VV | 3258 | 46918 | 0.46% | 0.104% |
| 358 | 18.018 | 17.977 | 18.027 | PV | 3290 | 55694 | 0.55% | 0.123% |
| 359 | 18.043 | 18.027 | 18.099 | VV | 3363 | 72286 | 0.71% | 0.160% |
| 360 | 18.159 | 18.099 | 18.192 | PV | 9229 | 136466 | 1.34% | 0.302% |

Sum of corrected areas: 45128264

Aromatic EPH 111424.M Tue Nov 19 06:18:56 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FG014869.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 0.39 | 1.03 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.49 | J | 0.25 | 0.69 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 3.72 | | 0.31 | 1.03 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 7.06 | | 0.83 | 1.38 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 7.02 | | 1.86 | 2.06 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 42.4 | | 40 - 140 | 85% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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

# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-02 | Acq On: | 19 Nov 2024 13:43 |
| Client Sample ID: | PH2-BOT-001 | Operator: | YP\AJ |
| Data file: | FG014869.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 27 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 721592 | 5.221 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 998230 | 7.122 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 7270152 | 54.086 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 12682882 | 102.671 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 10576262 | 101.998 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 32249118 | 271.098 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.387 | 13.387 | 4711588 | 42.4 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 21672856 | 169.1 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014869.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:43
Operator : YP\AJ
Sample : P4860-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

Integration File: autoint1.e
Quant Time: Nov 20 00:36:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.387 | 4711588 | 42.398 ug/mlm |
| Spiked Amount 50.000 | | Recovery = 84.80% | |
| Target Compounds | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014869.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:43
Operator : YP\AJ
Sample : P4860-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

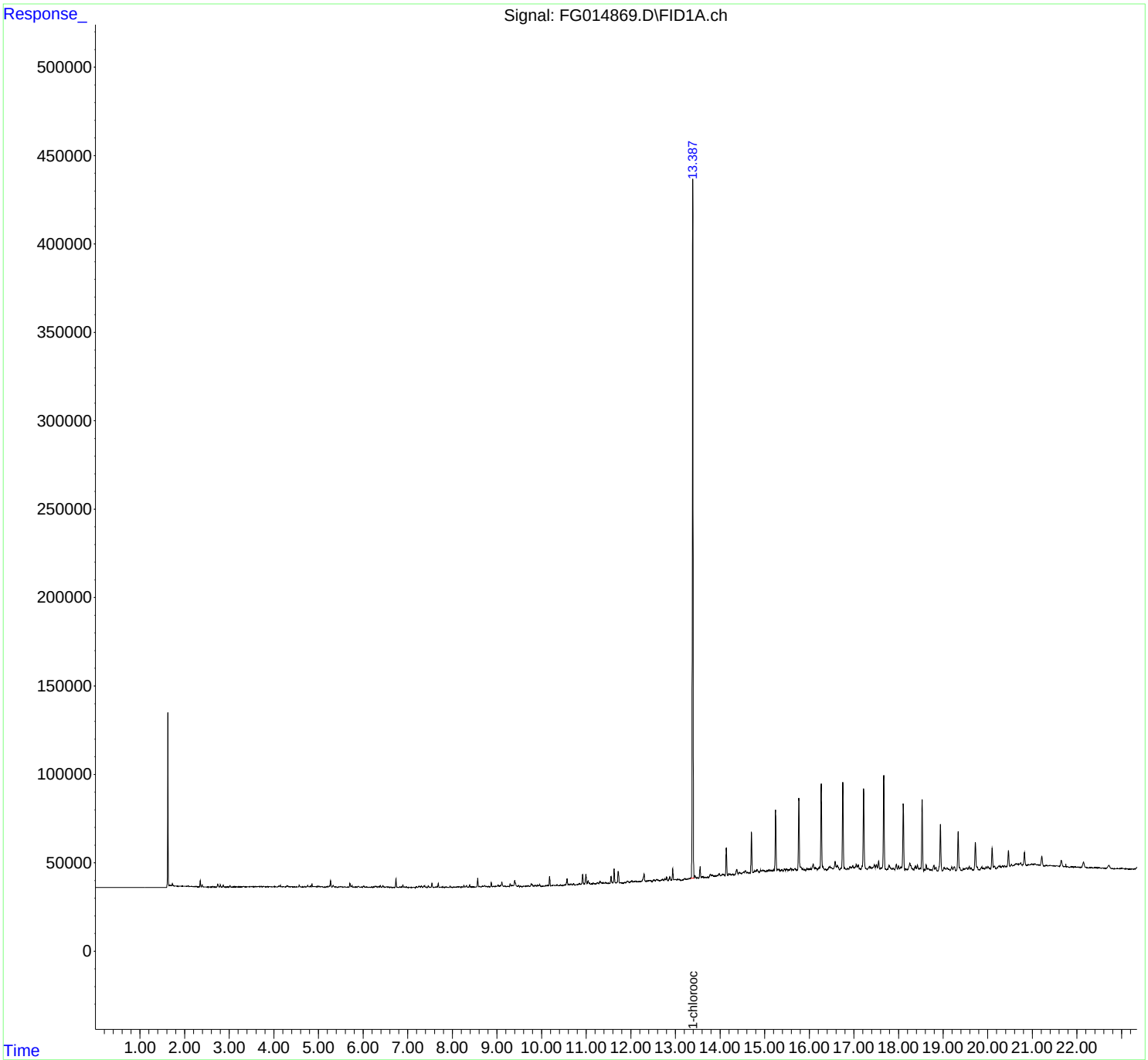
**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

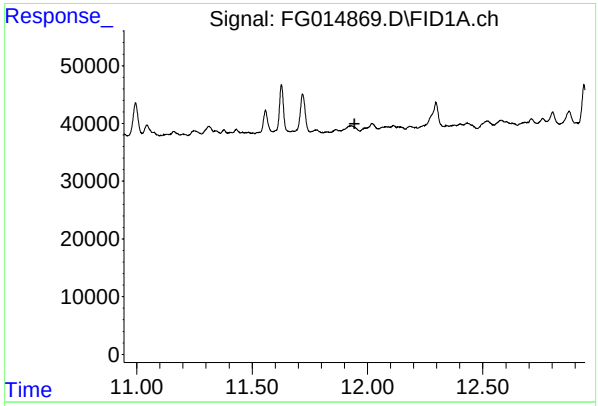
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

Integration File: autoint1.e
Quant Time: Nov 20 00:36:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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





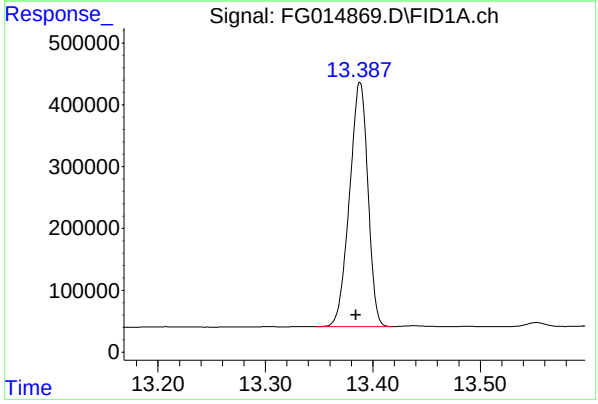

#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024




#12 1-chlorooctadecane (SURR)

R.T.: 13.387 min
Delta R.T.: 0.003 min
Response: 4711588
Conc: 42.40 ug/ml m

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11192
Data File : FG014869.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:43
Sample : P4860-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.284 | 3.222 | 3.289 | BV | 53 | 613 | 0.01% | 0.002% |
| 2 | 3.296 | 3.289 | 3.302 | VV | 83 | 418 | 0.01% | 0.001% |
| 3 | 3.322 | 3.302 | 3.357 | VV | 329 | 4949 | 0.10% | 0.015% |
| 4 | 3.436 | 3.357 | 3.452 | PV | 124 | 4326 | 0.09% | 0.013% |
| 5 | 3.462 | 3.452 | 3.487 | VV | 164 | 2335 | 0.05% | 0.007% |
| 6 | 3.498 | 3.487 | 3.512 | VV | 129 | 1861 | 0.04% | 0.006% |
| 7 | 3.569 | 3.512 | 3.599 | VV | 266 | 8725 | 0.18% | 0.027% |
| 8 | 3.631 | 3.599 | 3.642 | VV | 264 | 5221 | 0.11% | 0.016% |
| 9 | 3.656 | 3.642 | 3.665 | VV | 275 | 3277 | 0.07% | 0.010% |
| 10 | 3.676 | 3.665 | 3.691 | VV | 250 | 3268 | 0.07% | 0.010% |
| 11 | 3.710 | 3.691 | 3.742 | VV | 390 | 7399 | 0.15% | 0.023% |
| 12 | 3.767 | 3.742 | 3.813 | VV | 422 | 8411 | 0.18% | 0.026% |
| 13 | 3.849 | 3.813 | 3.882 | VV | 250 | 6072 | 0.13% | 0.019% |
| 14 | 3.904 | 3.882 | 3.942 | VV | 364 | 7164 | 0.15% | 0.022% |
| 15 | 3.958 | 3.942 | 3.981 | VV | 172 | 2600 | 0.05% | 0.008% |
| 16 | 4.001 | 3.981 | 4.026 | VV | 278 | 5335 | 0.11% | 0.017% |
| 17 | 4.033 | 4.026 | 4.066 | VV | 227 | 3335 | 0.07% | 0.010% |
| 18 | 4.111 | 4.066 | 4.128 | VV | 794 | 11216 | 0.23% | 0.035% |
| 19 | 4.145 | 4.128 | 4.165 | VV | 982 | 11355 | 0.24% | 0.035% |
| 20 | 4.181 | 4.165 | 4.201 | VV | 226 | 3612 | 0.08% | 0.011% |
| 21 | 4.220 | 4.201 | 4.252 | VV | 365 | 5908 | 0.12% | 0.018% |
| 22 | 4.293 | 4.252 | 4.304 | VV | 755 | 10556 | 0.22% | 0.033% |
| 23 | 4.315 | 4.304 | 4.329 | VV | 813 | 8414 | 0.18% | 0.026% |
| 24 | 4.339 | 4.329 | 4.369 | VV | 362 | 5904 | 0.12% | 0.018% |
| 25 | 4.398 | 4.369 | 4.438 | VV | 458 | 8251 | 0.17% | 0.026% |
| 26 | 4.468 | 4.438 | 4.495 | VV | 302 | 5361 | 0.11% | 0.017% |
| 27 | 4.510 | 4.495 | 4.544 | VV | 259 | 5185 | 0.11% | 0.016% |
| 28 | 4.570 | 4.544 | 4.595 | VV | 1216 | 15297 | 0.32% | 0.047% |
| 29 | 4.607 | 4.595 | 4.624 | VV | 294 | 3470 | 0.07% | 0.011% |
| 30 | 4.644 | 4.624 | 4.668 | VV | 232 | 4202 | 0.09% | 0.013% |
| 31 | 4.696 | 4.668 | 4.712 | VV | 406 | 6314 | 0.13% | 0.020% |
| 32 | 4.758 | 4.712 | 4.785 | VV | 1076 | 18019 | 0.38% | 0.056% |
| 33 | 4.791 | 4.785 | 4.804 | VV | 334 | 3101 | 0.06% | 0.010% |
| 34 | 4.822 | 4.804 | 4.836 | VV | 908 | 10605 | 0.22% | 0.033% |
| 35 | 4.854 | 4.836 | 4.873 | VV | 2002 | 21909 | 0.46% | 0.068% |
| 36 | 4.891 | 4.873 | 4.903 | VV | 511 | 7811 | 0.16% | 0.024% |

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 4.914 | 4.903 | 4.948 | VV | 435 | 10013 | 0.21% | 0.031% |
| 38 | 4.991 | 4.948 | 5.016 | VV | 816 | 18993 | | |
| 39 | 5.029 | 5.016 | 5.048 | VV | 452 | 7182 | | |
| 40 | 5.081 | 5.048 | 5.116 | VV | 492 | 12112 | | |
| 41 | 5.145 | 5.116 | 5.165 | VV | 258 | 4314 | | |
| 42 | 5.183 | 5.165 | 5.199 | VV | 534 | 5936 | | |
| 43 | 5.214 | 5.199 | 5.229 | VV | 553 | 6866 | 0.14% | 0.021% |
| 44 | 5.272 | 5.229 | 5.302 | VV | 3921 | 56972 | 1.19% | 0.177% |
| 45 | 5.330 | 5.302 | 5.375 | VV | 1246 | 22654 | 0.47% | 0.070% |
| 46 | 5.388 | 5.375 | 5.427 | VV | 588 | 7645 | 0.16% | 0.024% |
| 47 | 5.458 | 5.427 | 5.468 | PV | 361 | 5053 | 0.11% | 0.016% |
| 48 | 5.486 | 5.468 | 5.500 | VV | 443 | 6976 | 0.15% | 0.022% |
| 49 | 5.515 | 5.500 | 5.538 | VV | 512 | 7866 | 0.16% | 0.024% |
| 50 | 5.549 | 5.538 | 5.565 | VV | 297 | 3994 | 0.08% | 0.012% |
| 51 | 5.582 | 5.565 | 5.599 | VV | 428 | 6260 | 0.13% | 0.019% |
| 52 | 5.611 | 5.599 | 5.633 | VV | 291 | 4415 | 0.09% | 0.014% |
| 53 | 5.649 | 5.633 | 5.682 | VV | 305 | 5572 | 0.12% | 0.017% |
| 54 | 5.706 | 5.682 | 5.732 | VV | 2374 | 30342 | 0.63% | 0.094% |
| 55 | 5.751 | 5.732 | 5.772 | VV | 1193 | 14388 | 0.30% | 0.045% |
| 56 | 5.785 | 5.772 | 5.795 | VV | 212 | 2362 | 0.05% | 0.007% |
| 57 | 5.811 | 5.795 | 5.845 | VV | 301 | 6889 | 0.14% | 0.021% |
| 58 | 5.859 | 5.845 | 5.867 | VV | 272 | 2869 | 0.06% | 0.009% |
| 59 | 5.895 | 5.867 | 5.942 | VV | 728 | 17393 | 0.36% | 0.054% |
| 60 | 5.970 | 5.942 | 5.985 | VV | 339 | 5793 | 0.12% | 0.018% |
| 61 | 6.009 | 5.985 | 6.052 | VV | 785 | 16970 | 0.35% | 0.053% |
| 62 | 6.075 | 6.052 | 6.109 | VV | 424 | 7979 | 0.17% | 0.025% |
| 63 | 6.139 | 6.109 | 6.160 | VV | 309 | 4905 | 0.10% | 0.015% |
| 64 | 6.188 | 6.160 | 6.204 | PV | 420 | 4714 | 0.10% | 0.015% |
| 65 | 6.239 | 6.204 | 6.258 | VV | 520 | 8934 | 0.19% | 0.028% |
| 66 | 6.294 | 6.258 | 6.317 | VV | 754 | 18324 | 0.38% | 0.057% |
| 67 | 6.339 | 6.317 | 6.362 | VV | 758 | 11690 | 0.24% | 0.036% |
| 68 | 6.383 | 6.362 | 6.411 | VV | 1192 | 16085 | 0.34% | 0.050% |
| 69 | 6.445 | 6.411 | 6.466 | VV | 1162 | 19181 | 0.40% | 0.059% |
| 70 | 6.475 | 6.466 | 6.499 | VV | 412 | 6080 | 0.13% | 0.019% |
| 71 | 6.529 | 6.499 | 6.547 | VV | 477 | 10246 | 0.21% | 0.032% |
| 72 | 6.561 | 6.547 | 6.595 | VV | 358 | 7117 | 0.15% | 0.022% |
| 73 | 6.613 | 6.595 | 6.648 | VV | 380 | 7237 | 0.15% | 0.022% |
| 74 | 6.659 | 6.648 | 6.714 | VV | 174 | 5199 | 0.11% | 0.016% |
| 75 | 6.738 | 6.714 | 6.808 | VV | 4939 | 55237 | 1.15% | 0.171% |
| 76 | 6.826 | 6.808 | 6.845 | VV | 648 | 7036 | 0.15% | 0.022% |
| 77 | 6.862 | 6.845 | 6.873 | VV | 434 | 4184 | 0.09% | 0.013% |
| 78 | 6.893 | 6.873 | 6.914 | VV | 1641 | 18774 | 0.39% | 0.058% |
| 79 | 6.929 | 6.914 | 6.948 | VV | 533 | 5907 | 0.12% | 0.018% |
| 80 | 6.967 | 6.948 | 7.004 | VV | 645 | 7891 | 0.16% | 0.024% |
| 81 | 7.022 | 7.004 | 7.042 | VV | 208 | 2707 | 0.06% | 0.008% |
| 82 | 7.070 | 7.042 | 7.095 | VV | 253 | 4269 | 0.09% | 0.013% |
| 83 | 7.142 | 7.095 | 7.165 | VV | 213 | 4308 | 0.09% | 0.013% |
| 84 | 7.195 | 7.165 | 7.224 | PV | 631 | 8813 | 0.18% | 0.027% |
| 85 | 7.249 | 7.224 | 7.264 | VV | 912 | 12224 | 0.26% | 0.038% |
| 86 | 7.271 | 7.264 | 7.286 | VV | 602 | 6565 | 0.14% | 0.020% |
| 87 | 7.311 | 7.286 | 7.340 | VV | 876 | 17058 | 0.36% | 0.053% |
| 88 | 7.378 | 7.340 | 7.402 | VV | 1158 | 21505 | 0.45% | 0.067% |
| 89 | 7.416 | 7.402 | 7.436 | VV | 501 | 5733 | 0.12% | 0.018% |

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual IntegrationsAPPROVED**

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Supervised By :Ankita Jodhani 11/21/2024

rteres

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.461 | 7.436 | 7.502 | VV | 1007 | 16139 | 0.34% | 0.050% |
| 91 | 7.544 | 7.502 | 7.592 | VV | 2439 | 32333 | | |
| 92 | 7.624 | 7.592 | 7.634 | VV | 276 | 5743 | | |
| 93 | 7.652 | 7.634 | 7.665 | VV | 535 | 6613 | | |
| 94 | 7.686 | 7.665 | 7.712 | VV | 2411 | 26515 | | |
| 95 | 7.751 | 7.712 | 7.763 | VV | 338 | 5600 | | |
| 96 | 7.780 | 7.763 | 7.805 | VV | 538 | 6785 | 0.14% | 0.021% |
| 97 | 7.813 | 7.805 | 7.835 | VV | 154 | 2246 | 0.05% | 0.007% |
| 98 | 7.863 | 7.835 | 7.888 | VV | 435 | 7499 | 0.16% | 0.023% |
| 99 | 7.900 | 7.888 | 7.925 | VV | 163 | 1549 | 0.03% | 0.005% |
| 100 | 7.952 | 7.925 | 7.990 | PV | 925 | 11648 | 0.24% | 0.036% |
| 101 | 8.032 | 7.990 | 8.043 | VV | 278 | 5697 | 0.12% | 0.018% |
| 102 | 8.055 | 8.043 | 8.067 | VV | 247 | 2651 | 0.06% | 0.008% |
| 103 | 8.088 | 8.067 | 8.099 | VV | 281 | 3769 | 0.08% | 0.012% |
| 104 | 8.119 | 8.099 | 8.135 | VV | 400 | 6264 | 0.13% | 0.019% |
| 105 | 8.149 | 8.135 | 8.160 | VV | 424 | 4986 | 0.10% | 0.015% |
| 106 | 8.172 | 8.160 | 8.191 | VV | 423 | 4627 | 0.10% | 0.014% |
| 107 | 8.217 | 8.191 | 8.236 | VV | 524 | 6329 | 0.13% | 0.020% |
| 108 | 8.262 | 8.236 | 8.283 | VV | 1166 | 13847 | 0.29% | 0.043% |
| 109 | 8.317 | 8.283 | 8.342 | VV | 1063 | 16545 | 0.35% | 0.051% |
| 110 | 8.360 | 8.342 | 8.369 | VV | 226 | 2662 | 0.06% | 0.008% |
| 111 | 8.389 | 8.369 | 8.413 | VV | 1479 | 16847 | 0.35% | 0.052% |
| 112 | 8.442 | 8.413 | 8.462 | VV | 266 | 5377 | 0.11% | 0.017% |
| 113 | 8.476 | 8.462 | 8.502 | VV | 514 | 6127 | 0.13% | 0.019% |
| 114 | 8.519 | 8.502 | 8.532 | VV | 222 | 2861 | 0.06% | 0.009% |
| 115 | 8.570 | 8.532 | 8.596 | VV | 5159 | 60519 | 1.26% | 0.188% |
| 116 | 8.621 | 8.596 | 8.646 | VV | 412 | 8656 | 0.18% | 0.027% |
| 117 | 8.688 | 8.646 | 8.703 | VV | 619 | 14940 | 0.31% | 0.046% |
| 118 | 8.727 | 8.703 | 8.748 | VV | 1025 | 16550 | 0.35% | 0.051% |
| 119 | 8.765 | 8.748 | 8.788 | VV | 515 | 7765 | 0.16% | 0.024% |
| 120 | 8.807 | 8.788 | 8.834 | VV | 477 | 7847 | 0.16% | 0.024% |
| 121 | 8.874 | 8.834 | 8.894 | VV | 2540 | 31375 | 0.65% | 0.097% |
| 122 | 8.926 | 8.894 | 8.950 | VV | 534 | 13383 | 0.28% | 0.041% |
| 123 | 8.994 | 8.950 | 9.005 | VV | 509 | 14293 | 0.30% | 0.044% |
| 124 | 9.030 | 9.005 | 9.049 | VV | 1130 | 20048 | 0.42% | 0.062% |
| 125 | 9.066 | 9.049 | 9.078 | VV | 862 | 10613 | 0.22% | 0.033% |
| 126 | 9.111 | 9.078 | 9.152 | VV | 2974 | 53879 | 1.12% | 0.167% |
| 127 | 9.163 | 9.152 | 9.213 | VV | 640 | 14174 | 0.30% | 0.044% |
| 128 | 9.232 | 9.213 | 9.246 | VV | 472 | 6503 | 0.14% | 0.020% |
| 129 | 9.259 | 9.246 | 9.275 | VV | 445 | 5777 | 0.12% | 0.018% |
| 130 | 9.297 | 9.275 | 9.316 | VV | 1876 | 23610 | 0.49% | 0.073% |
| 131 | 9.335 | 9.316 | 9.365 | VV | 1083 | 22662 | 0.47% | 0.070% |
| 132 | 9.399 | 9.365 | 9.462 | VV | 3745 | 82029 | 1.71% | 0.254% |
| 133 | 9.486 | 9.462 | 9.511 | VV | 938 | 13783 | 0.29% | 0.043% |
| 134 | 9.534 | 9.511 | 9.567 | VV | 472 | 7671 | 0.16% | 0.024% |
| 135 | 9.593 | 9.567 | 9.616 | PV | 447 | 8054 | 0.17% | 0.025% |
| 136 | 9.621 | 9.616 | 9.630 | VV | 344 | 2801 | 0.06% | 0.009% |
| 137 | 9.662 | 9.630 | 9.672 | VV | 394 | 7326 | 0.15% | 0.023% |
| 138 | 9.702 | 9.672 | 9.741 | VV | 663 | 15041 | 0.31% | 0.047% |
| 139 | 9.772 | 9.741 | 9.830 | VV | 1669 | 40758 | 0.85% | 0.126% |
| 140 | 9.860 | 9.830 | 9.884 | VV | 799 | 15624 | 0.33% | 0.048% |
| 141 | 9.906 | 9.884 | 9.925 | VV | 1011 | 13718 | 0.29% | 0.043% |

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual IntegrationsAPPROVED**

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Supervised By :Ankita Jodhani 11/21/2024

rteres

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.959 | 9.925 | 9.984 | VV | 1010 | 18250 | 0.38% | 0.057% |
| 143 | 9.996 | 9.984 | 10.005 | PV | 98 | 904 | | |
| 144 | 10.022 | 10.005 | 10.033 | VV | 129 | 1446 | | |
| 145 | 10.048 | 10.033 | 10.067 | VV | 192 | 2073 | | |
| 146 | 10.099 | 10.067 | 10.117 | PV | 603 | 7879 | | |
| 147 | 10.137 | 10.117 | 10.157 | VV | 482 | 8383 | | |
| 148 | 10.181 | 10.157 | 10.225 | VV | 5462 | 63074 | 1.32% | 0.196% |
| 149 | 10.255 | 10.225 | 10.264 | VV | 441 | 7437 | 0.16% | 0.023% |
| 150 | 10.282 | 10.264 | 10.304 | VV | 450 | 8188 | 0.17% | 0.025% |
| 151 | 10.350 | 10.304 | 10.379 | VV | 706 | 13679 | 0.29% | 0.042% |
| 152 | 10.423 | 10.379 | 10.442 | VV | 578 | 8001 | 0.17% | 0.025% |
| 153 | 10.459 | 10.442 | 10.475 | VV | 296 | 3615 | 0.08% | 0.011% |
| 154 | 10.530 | 10.475 | 10.542 | VV | 628 | 11434 | 0.24% | 0.035% |
| 155 | 10.572 | 10.542 | 10.598 | VV | 3835 | 58887 | 1.23% | 0.183% |
| 156 | 10.618 | 10.598 | 10.636 | VV | 785 | 12271 | 0.26% | 0.038% |
| 157 | 10.660 | 10.636 | 10.685 | VV | 927 | 16577 | 0.35% | 0.051% |
| 158 | 10.718 | 10.685 | 10.748 | VV | 1037 | 16690 | 0.35% | 0.052% |
| 159 | 10.783 | 10.748 | 10.796 | VV | 397 | 7412 | 0.15% | 0.023% |
| 160 | 10.818 | 10.796 | 10.828 | VV | 491 | 7533 | 0.16% | 0.023% |
| 161 | 10.852 | 10.828 | 10.884 | VV | 963 | 20725 | 0.43% | 0.064% |
| 162 | 10.921 | 10.884 | 10.960 | VV | 5978 | 88684 | 1.85% | 0.275% |
| 163 | 10.995 | 10.960 | 11.023 | VV | 6100 | 100225 | 2.09% | 0.311% |
| 164 | 11.044 | 11.023 | 11.108 | VV | 2220 | 53107 | 1.11% | 0.165% |
| 165 | 11.160 | 11.108 | 11.188 | VV | 1011 | 28685 | 0.60% | 0.089% |
| 166 | 11.202 | 11.188 | 11.222 | VV | 505 | 8328 | 0.17% | 0.026% |
| 167 | 11.251 | 11.222 | 11.281 | VV | 1060 | 25722 | 0.54% | 0.080% |
| 168 | 11.312 | 11.281 | 11.332 | VV | 1751 | 36678 | 0.77% | 0.114% |
| 169 | 11.343 | 11.332 | 11.362 | VV | 954 | 14513 | 0.30% | 0.045% |
| 170 | 11.378 | 11.362 | 11.395 | VV | 1137 | 15669 | 0.33% | 0.049% |
| 171 | 11.431 | 11.395 | 11.465 | VV | 1116 | 28762 | 0.60% | 0.089% |
| 172 | 11.483 | 11.465 | 11.512 | VV | 549 | 13128 | 0.27% | 0.041% |
| 173 | 11.558 | 11.512 | 11.590 | VV | 4337 | 70878 | 1.48% | 0.220% |
| 174 | 11.627 | 11.590 | 11.666 | VV | 8733 | 121780 | 2.54% | 0.378% |
| 175 | 11.676 | 11.666 | 11.682 | VV | 659 | 5821 | 0.12% | 0.018% |
| 176 | 11.719 | 11.682 | 11.752 | VV | 6995 | 114038 | 2.38% | 0.354% |
| 177 | 11.779 | 11.752 | 11.807 | VV | 732 | 17080 | 0.36% | 0.053% |
| 178 | 11.827 | 11.807 | 11.835 | VV | 362 | 5236 | 0.11% | 0.016% |
| 179 | 11.863 | 11.835 | 11.875 | VV | 727 | 12251 | 0.26% | 0.038% |
| 180 | 11.929 | 11.875 | 11.967 | VV | 1345 | 48507 | 1.01% | 0.150% |
| 181 | 12.020 | 11.967 | 12.049 | VV | 1647 | 48109 | 1.00% | 0.149% |
| 182 | 12.078 | 12.049 | 12.097 | VV | 1064 | 27467 | 0.57% | 0.085% |
| 183 | 12.112 | 12.097 | 12.135 | VV | 1232 | 23495 | 0.49% | 0.073% |
| 184 | 12.141 | 12.135 | 12.164 | VV | 981 | 14100 | 0.29% | 0.044% |
| 185 | 12.185 | 12.164 | 12.218 | VV | 1017 | 27326 | 0.57% | 0.085% |
| 186 | 12.297 | 12.218 | 12.335 | VV | 5058 | 140284 | 2.93% | 0.435% |
| 187 | 12.343 | 12.335 | 12.355 | VV | 993 | 11151 | 0.23% | 0.035% |
| 188 | 12.402 | 12.355 | 12.419 | VV | 1269 | 40956 | 0.85% | 0.127% |
| 189 | 12.432 | 12.419 | 12.476 | VV | 1377 | 34116 | 0.71% | 0.106% |
| 190 | 12.520 | 12.476 | 12.548 | VV | 1669 | 50589 | 1.06% | 0.157% |
| 191 | 12.579 | 12.548 | 12.650 | VV | 1744 | 79399 | 1.66% | 0.246% |
| 192 | 12.682 | 12.650 | 12.691 | VV | 1296 | 27917 | 0.58% | 0.087% |
| 193 | 12.711 | 12.691 | 12.739 | VV | 1882 | 40332 | 0.84% | 0.125% |
| 194 | 12.760 | 12.739 | 12.777 | VV | 1912 | 35213 | 0.73% | 0.109% |

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

rteres

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 195 | 12.802 | 12.777 | 12.833 | VV | 2959 | 59752 | 1.25% | 0.185% |
| 196 | 12.874 | 12.833 | 12.912 | VV | 3041 | 77724 | | |
| 197 | 12.939 | 12.912 | 12.964 | VV | 7627 | 107879 | | |
| 198 | 12.997 | 12.964 | 13.035 | VV | 1410 | 55331 | | |
| 199 | 13.055 | 13.035 | 13.073 | VV | 1494 | 30671 | | |
| 200 | 13.087 | 13.073 | 13.129 | VV | 1368 | 34860 | | |
| 201 | 13.208 | 13.129 | 13.252 | VV | 1681 | 87587 | 1.83% | 0.272% |
| 202 | 13.266 | 13.252 | 13.283 | VV | 1561 | 25006 | 0.52% | 0.078% |
| 203 | 13.303 | 13.283 | 13.318 | VV | 1775 | 30995 | 0.65% | 0.096% |
| 204 | 13.336 | 13.318 | 13.345 | VV | 2022 | 28932 | 0.60% | 0.090% |
| 205 | 13.388 | 13.345 | 13.420 | VV | 398618 | 4792081 | 100.00% | 14.860% |
| 206 | 13.438 | 13.420 | 13.469 | VV | 3136 | 69581 | 1.45% | 0.216% |
| 207 | 13.489 | 13.469 | 13.509 | VV | 2060 | 43642 | 0.91% | 0.135% |
| 208 | 13.552 | 13.509 | 13.578 | VV | 8209 | 151565 | 3.16% | 0.470% |
| 209 | 13.605 | 13.578 | 13.645 | VV | 2464 | 88176 | 1.84% | 0.273% |
| 210 | 13.661 | 13.645 | 13.675 | VV | 2063 | 35389 | 0.74% | 0.110% |
| 211 | 13.686 | 13.675 | 13.704 | VV | 2026 | 32726 | 0.68% | 0.101% |
| 212 | 13.721 | 13.704 | 13.740 | VV | 2332 | 42725 | 0.89% | 0.132% |
| 213 | 13.782 | 13.740 | 13.805 | VV | 3745 | 108518 | 2.26% | 0.336% |
| 214 | 13.828 | 13.805 | 13.885 | VV | 3202 | 132143 | 2.76% | 0.410% |
| 215 | 13.897 | 13.885 | 13.915 | VV | 2762 | 46450 | 0.97% | 0.144% |
| 216 | 13.934 | 13.915 | 13.948 | VV | 2881 | 53064 | 1.11% | 0.165% |
| 217 | 13.978 | 13.948 | 14.009 | VV | 3863 | 116417 | 2.43% | 0.361% |
| 218 | 14.052 | 14.009 | 14.071 | VV | 3428 | 113199 | 2.36% | 0.351% |
| 219 | 14.083 | 14.071 | 14.109 | VV | 3254 | 67725 | 1.41% | 0.210% |
| 220 | 14.139 | 14.109 | 14.172 | VV | 18145 | 289693 | 6.05% | 0.898% |
| 221 | 14.198 | 14.172 | 14.212 | VV | 3660 | 74190 | 1.55% | 0.230% |
| 222 | 14.225 | 14.212 | 14.245 | VV | 3586 | 64930 | 1.35% | 0.201% |
| 223 | 14.291 | 14.245 | 14.310 | VV | 3299 | 116222 | 2.43% | 0.360% |
| 224 | 14.374 | 14.310 | 14.405 | VV | 5878 | 229822 | 4.80% | 0.713% |
| 225 | 14.435 | 14.405 | 14.486 | VV | 4218 | 181773 | 3.79% | 0.564% |
| 226 | 14.530 | 14.486 | 14.544 | VV | 4476 | 138957 | 2.90% | 0.431% |
| 227 | 14.570 | 14.544 | 14.599 | VV | 5023 | 144982 | 3.03% | 0.450% |
| 228 | 14.615 | 14.599 | 14.637 | VV | 4064 | 88496 | 1.85% | 0.274% |
| 229 | 14.654 | 14.637 | 14.672 | VV | 3992 | 78150 | 1.63% | 0.242% |
| 230 | 14.702 | 14.672 | 14.744 | VV | 26949 | 440630 | 9.19% | 1.366% |
| 231 | 14.773 | 14.744 | 14.786 | VV | 4786 | 109517 | 2.29% | 0.340% |
| 232 | 14.830 | 14.786 | 14.880 | VV | 5476 | 259989 | 5.43% | 0.806% |
| 233 | 14.906 | 14.880 | 14.939 | VV | 4968 | 156679 | 3.27% | 0.486% |
| 234 | 14.958 | 14.939 | 14.982 | VV | 5112 | 124943 | 2.61% | 0.387% |
| 235 | 14.988 | 14.982 | 15.010 | VV | 4685 | 74822 | 1.56% | 0.232% |
| 236 | 15.020 | 15.010 | 15.038 | VV | 4480 | 70530 | 1.47% | 0.219% |
| 237 | 15.054 | 15.038 | 15.069 | VV | 4812 | 84122 | 1.76% | 0.261% |
| 238 | 15.096 | 15.069 | 15.115 | VV | 5056 | 127204 | 2.65% | 0.394% |
| 239 | 15.130 | 15.115 | 15.181 | VV | 4951 | 178327 | 3.72% | 0.553% |
| 240 | 15.198 | 15.181 | 15.213 | VV | 5061 | 88223 | 1.84% | 0.274% |
| 241 | 15.244 | 15.213 | 15.289 | VV | 38643 | 638739 | 13.33% | 1.981% |
| 242 | 15.303 | 15.289 | 15.344 | VV | 5226 | 160067 | 3.34% | 0.496% |
| 243 | 15.351 | 15.344 | 15.362 | VV | 4492 | 48989 | 1.02% | 0.152% |
| 244 | 15.388 | 15.362 | 15.412 | VV | 4869 | 134780 | 2.81% | 0.418% |
| 245 | 15.440 | 15.412 | 15.465 | VV | 5388 | 151425 | 3.16% | 0.470% |
| 246 | 15.487 | 15.465 | 15.535 | VV | 5208 | 201611 | 4.21% | 0.625% |

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 15.550 | 15.535 | 15.555 | VV | 4621 | 53728 | 1.12% | 0.167% |
| 248 | 15.581 | 15.555 | 15.606 | VV | 5566 | 151666 | 3 | |
| 249 | 15.627 | 15.606 | 15.645 | VV | 4825 | 111130 | 2 | |
| 250 | 15.683 | 15.645 | 15.728 | VV | 5235 | 235350 | 4 | |
| 251 | 15.765 | 15.728 | 15.799 | VV | 44914 | 734340 | 15 | |
| 252 | 15.810 | 15.799 | 15.844 | VV | 5993 | 149068 | 3 | |
| 253 | 15.854 | 15.844 | 15.881 | VV | 4914 | 100798 | 2.10% | 0.313% |
| 254 | 15.900 | 15.881 | 15.921 | VV | 4739 | 105417 | 2.20% | 0.327% |
| 255 | 15.947 | 15.921 | 15.964 | VV | 5048 | 118126 | 2.47% | 0.366% |
| 256 | 15.990 | 15.964 | 16.009 | VV | 5045 | 128984 | 2.69% | 0.400% |
| 257 | 16.031 | 16.009 | 16.044 | VV | 4968 | 96881 | 2.02% | 0.300% |
| 258 | 16.087 | 16.044 | 16.112 | VV | 7466 | 244161 | 5.10% | 0.757% |
| 259 | 16.132 | 16.112 | 16.180 | VV | 5265 | 203071 | 4.24% | 0.630% |
| 260 | 16.224 | 16.180 | 16.236 | VV | 5455 | 163139 | 3.40% | 0.506% |
| 261 | 16.267 | 16.236 | 16.343 | VV | 52753 | 928806 | 19.38% | 2.880% |
| 262 | 16.358 | 16.343 | 16.389 | VV | 4433 | 113076 | 2.36% | 0.351% |
| 263 | 16.461 | 16.389 | 16.490 | VV | 5576 | 292631 | 6.11% | 0.907% |
| 264 | 16.501 | 16.490 | 16.537 | VV | 4917 | 131870 | 2.75% | 0.409% |
| 265 | 16.578 | 16.537 | 16.611 | VV | 8365 | 270521 | 5.65% | 0.839% |
| 266 | 16.628 | 16.611 | 16.685 | VV | 6121 | 221289 | 4.62% | 0.686% |
| 267 | 16.750 | 16.685 | 16.782 | VV | 52827 | 898506 | 18.75% | 2.786% |
| 268 | 16.792 | 16.782 | 16.829 | VV | 4598 | 116842 | 2.44% | 0.362% |
| 269 | 16.847 | 16.829 | 16.865 | VV | 4350 | 90935 | 1.90% | 0.282% |
| 270 | 16.874 | 16.865 | 16.885 | VV | 4267 | 49876 | 1.04% | 0.155% |
| 271 | 16.915 | 16.885 | 16.941 | VV | 5204 | 156501 | 3.27% | 0.485% |
| 272 | 16.973 | 16.941 | 17.006 | VV | 5638 | 194915 | 4.07% | 0.604% |
| 273 | 17.052 | 17.006 | 17.072 | VV | 6649 | 211157 | 4.41% | 0.655% |
| 274 | 17.098 | 17.072 | 17.155 | VV | 6247 | 230012 | 4.80% | 0.713% |
| 275 | 17.217 | 17.155 | 17.265 | VV | 48906 | 908275 | 18.95% | 2.816% |
| 276 | 17.271 | 17.265 | 17.294 | VV | 4008 | 65643 | 1.37% | 0.204% |
| 277 | 17.345 | 17.294 | 17.362 | VV | 4833 | 170490 | 3.56% | 0.529% |
| 278 | 17.381 | 17.362 | 17.408 | VV | 4603 | 119140 | 2.49% | 0.369% |
| 279 | 17.460 | 17.408 | 17.477 | VV | 5958 | 199965 | 4.17% | 0.620% |
| 280 | 17.506 | 17.477 | 17.527 | VV | 5997 | 151461 | 3.16% | 0.470% |
| 281 | 17.553 | 17.527 | 17.582 | VV | 7878 | 176008 | 3.67% | 0.546% |
| 282 | 17.603 | 17.582 | 17.618 | VV | 4099 | 80448 | 1.68% | 0.249% |
| 283 | 17.668 | 17.618 | 17.735 | VV | 56156 | 942586 | 19.67% | 2.923% |
| 284 | 17.788 | 17.735 | 17.855 | VV | 5209 | 268116 | 5.59% | 0.831% |
| 285 | 17.876 | 17.855 | 17.912 | VV | 3756 | 110115 | 2.30% | 0.341% |
| 286 | 17.949 | 17.912 | 17.975 | VV | 5689 | 156229 | 3.26% | 0.484% |
| 287 | 17.999 | 17.975 | 18.022 | VV | 4887 | 108177 | 2.26% | 0.335% |
| 288 | 18.048 | 18.022 | 18.067 | VV | 4158 | 99450 | 2.08% | 0.308% |
| 289 | 18.106 | 18.067 | 18.140 | VV | 39900 | 645008 | 13.46% | 2.000% |
| 290 | 18.156 | 18.140 | 18.192 | VV | 3057 | 83224 | 1.74% | 0.258% |
| 291 | 18.253 | 18.192 | 18.345 | VV | 6136 | 336288 | 7.02% | 1.043% |
| 292 | 18.379 | 18.345 | 18.402 | VV | 4596 | 120406 | 2.51% | 0.373% |
| 293 | 18.425 | 18.402 | 18.466 | VV | 4948 | 134655 | 2.81% | 0.418% |
| 294 | 18.484 | 18.466 | 18.498 | VV | 3260 | 55261 | 1.15% | 0.171% |
| 295 | 18.528 | 18.498 | 18.562 | VV | 41826 | 603169 | 12.59% | 1.870% |
| 296 | 18.620 | 18.562 | 18.642 | VV | 4925 | 131913 | 2.75% | 0.409% |
| 297 | 18.660 | 18.642 | 18.713 | VV | 2894 | 98084 | 2.05% | 0.304% |
| 298 | 18.728 | 18.713 | 18.754 | VV | 2135 | 46886 | 0.98% | 0.145% |
| 299 | 18.793 | 18.754 | 18.817 | VV | 4512 | 117713 | 2.46% | 0.365% |

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 18.839 | 18.817 | 18.881 | VV | 3186 | 79981 | 1.67% | 0.248% |
| 301 | 18.938 | 18.881 | 18.983 | VV | 27507 | 471890 | 9 | |
| 302 | 19.021 | 18.983 | 19.062 | VV | 3244 | 103076 | 2 | |
| 303 | 19.087 | 19.062 | 19.115 | VV | 2920 | 76239 | 1 | |
| 304 | 19.128 | 19.115 | 19.157 | VV | 2051 | 43406 | 0 | |
| 305 | 19.196 | 19.157 | 19.218 | VV | 3246 | 81921 | 1 | |
| 306 | 19.252 | 19.218 | 19.285 | VV | 3253 | 93252 | 1.95% | 0.289% |
| 307 | 19.336 | 19.285 | 19.399 | VV | 23143 | 413258 | 8.62% | 1.281% |
| 308 | 19.411 | 19.399 | 19.423 | VV | 1069 | 15086 | 0.31% | 0.047% |
| 309 | 19.472 | 19.423 | 19.494 | VV | 1892 | 67143 | 1.40% | 0.208% |
| 310 | 19.519 | 19.494 | 19.550 | VV | 2491 | 68441 | 1.43% | 0.212% |
| 311 | 19.584 | 19.550 | 19.605 | VV | 2887 | 73361 | 1.53% | 0.227% |
| 312 | 19.627 | 19.605 | 19.675 | VV | 2371 | 67004 | 1.40% | 0.208% |
| 313 | 19.722 | 19.675 | 19.795 | VV | 16763 | 353379 | 7.37% | 1.096% |
| 314 | 19.807 | 19.795 | 19.817 | VV | 1102 | 13751 | 0.29% | 0.043% |
| 315 | 19.869 | 19.817 | 19.888 | VV | 2381 | 73384 | 1.53% | 0.228% |
| 316 | 19.905 | 19.888 | 19.935 | VV | 2052 | 49386 | 1.03% | 0.153% |
| 317 | 19.963 | 19.935 | 19.982 | VV | 2483 | 56831 | 1.19% | 0.176% |
| 318 | 20.007 | 19.982 | 20.062 | VV | 2684 | 91727 | 1.91% | 0.284% |
| 319 | 20.098 | 20.062 | 20.127 | VV | 13043 | 230101 | 4.80% | 0.714% |
| 320 | 20.152 | 20.127 | 20.185 | VV | 2913 | 80053 | 1.67% | 0.248% |
| 321 | 20.251 | 20.185 | 20.301 | VV | 2874 | 154707 | 3.23% | 0.480% |
| 322 | 20.334 | 20.301 | 20.355 | VV | 2933 | 80252 | 1.67% | 0.249% |
| 323 | 20.377 | 20.355 | 20.425 | VV | 3044 | 105160 | 2.19% | 0.326% |
| 324 | 20.464 | 20.425 | 20.496 | VV | 11453 | 234831 | 4.90% | 0.728% |
| 325 | 20.531 | 20.496 | 20.552 | VV | 3570 | 99749 | 2.08% | 0.309% |
| 326 | 20.568 | 20.552 | 20.580 | VV | 2831 | 47084 | 0.98% | 0.146% |
| 327 | 20.620 | 20.580 | 20.628 | VV | 3643 | 93615 | 1.95% | 0.290% |
| 328 | 20.648 | 20.628 | 20.668 | VV | 3892 | 86358 | 1.80% | 0.268% |
| 329 | 20.679 | 20.668 | 20.715 | VV | 3587 | 99040 | 2.07% | 0.307% |
| 330 | 20.737 | 20.715 | 20.783 | VV | 4195 | 139301 | 2.91% | 0.432% |
| 331 | 20.822 | 20.783 | 20.861 | VV | 10067 | 243494 | 5.08% | 0.755% |
| 332 | 20.906 | 20.861 | 20.935 | VV | 3041 | 128831 | 2.69% | 0.399% |
| 333 | 20.991 | 20.935 | 21.025 | VV | 3253 | 167478 | 3.49% | 0.519% |
| 334 | 21.062 | 21.025 | 21.094 | VV | 3443 | 127613 | 2.66% | 0.396% |
| 335 | 21.111 | 21.094 | 21.162 | VV | 2926 | 110066 | 2.30% | 0.341% |
| 336 | 21.211 | 21.162 | 21.271 | VV | 7532 | 244327 | 5.10% | 0.758% |
| 337 | 21.315 | 21.271 | 21.344 | VV | 2308 | 92922 | 1.94% | 0.288% |
| 338 | 21.397 | 21.344 | 21.478 | VV | 2236 | 161261 | 3.37% | 0.500% |
| 339 | 21.488 | 21.478 | 21.510 | VV | 1906 | 34747 | 0.73% | 0.108% |
| 340 | 21.542 | 21.510 | 21.605 | VV | 1908 | 98208 | 2.05% | 0.305% |
| 341 | 21.647 | 21.605 | 21.702 | VV | 4904 | 151899 | 3.17% | 0.471% |
| 342 | 21.720 | 21.702 | 21.739 | VV | 1280 | 26794 | 0.56% | 0.083% |
| 343 | 21.751 | 21.739 | 21.837 | VV | 2210 | 62879 | 1.31% | 0.195% |
| 344 | 21.862 | 21.837 | 21.909 | VV | 1025 | 37923 | 0.79% | 0.118% |
| 345 | 21.939 | 21.909 | 21.999 | VV | 907 | 41537 | 0.87% | 0.129% |
| 346 | 22.033 | 21.999 | 22.055 | VV | 719 | 20936 | 0.44% | 0.065% |
| 347 | 22.065 | 22.055 | 22.077 | VV | 519 | 6656 | 0.14% | 0.021% |
| 348 | 22.145 | 22.077 | 22.197 | VV | 3397 | 103072 | 2.15% | 0.320% |
| 349 | 22.206 | 22.197 | 22.252 | VBA | 336 | 18060 | 0.38% | 0.056% |

Sum of corrected areas: 32249108

rteres
Aliphatic EPH 111424.M Wed Nov 20 01:28:43 2024

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.6 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 0:53 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.03 | mg/kg | FC067813.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.47 | J | 1 | 0.25 | 0.69 | mg/kg | FC067813.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.96 | J | 1 | 0.31 | 1.03 | mg/kg | FC067813.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 4.22 | | 1 | 0.83 | 1.38 | mg/kg | FC067813.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 6.76 | | 1 | 1.86 | 2.07 | mg/kg | FC067813.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.69 | mg/kg | FD048772.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 3.52 | | 1 | 0.35 | 1.03 | mg/kg | FD048772.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.68 | J | 1 | 0.99 | 1.72 | mg/kg | FD048772.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 4.83 | | 1 | 2.07 | 2.76 | mg/kg | FD048772.D |
| Total AliphaticEPH | Total AliphaticEPH | 12.4 | | | 3.64 | 6.20 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 10.0 | | | 3.73 | 6.20 | mg/kg | |
| Total EPH | Total EPH | 22.4 | | | 7.36 | 12.4 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.6 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067813.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 0.39 | 1.03 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.47 | J | 0.25 | 0.69 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.96 | J | 0.31 | 1.03 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 4.22 | | 0.83 | 1.38 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 6.76 | | 1.86 | 2.07 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 38.2 | | 40 - 140 | 76% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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

# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-03 | Acq On: | 19 Nov 2024 00:53 |
| Client Sample ID: | PH2-BOT-002 | Operator: | YP/AJ |
| Data file: | FC067813.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 23 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 450422 | 2.717 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 1170792 | 6.871 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 2363878 | 13.936 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 9631908 | 61.24 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 11877843 | 98.074 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 25494843 | 182.839 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.929 | 12.929 | 5545169 | 38.2 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 13617000 | 84.764 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067813.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:53
Operator : YP/AJ
Sample : P4860-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-002

Integration File: sample.E
Quant Time: Nov 19 10:45:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 12.929 | 5545169 | 38.200 ug/ml |
| Spiked Amount 50.000 | | Recovery = 76.40% | |
| Target Compounds | | | |

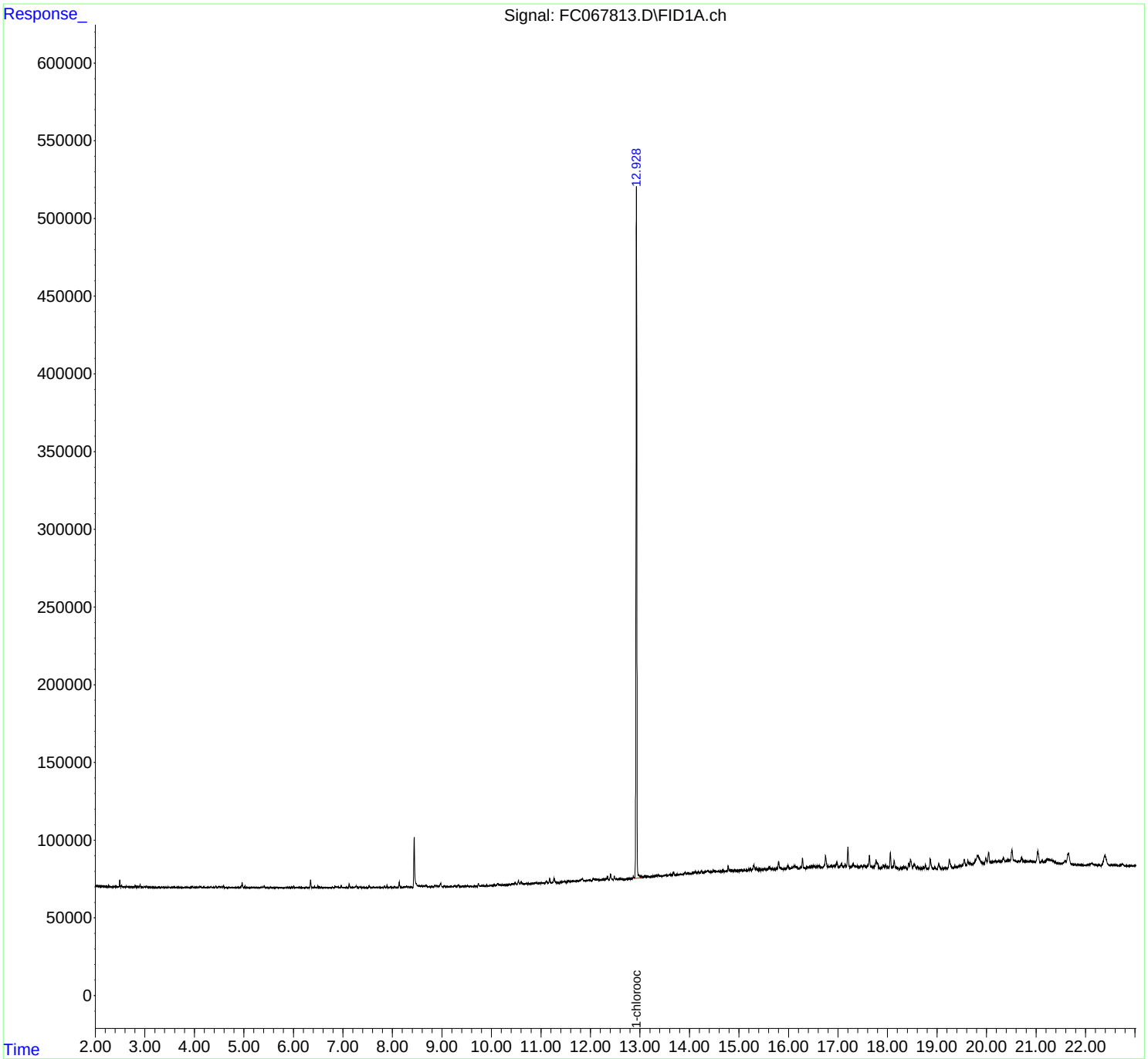
(f)=RT Delta > 1/2 Window (m)=manual int.

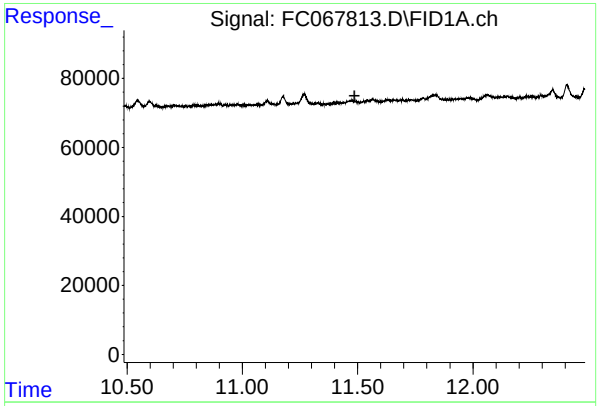
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067813.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:53
Operator : YP/AJ
Sample : P4860-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-002

Integration File: sample.E
Quant Time: Nov 19 10:45:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

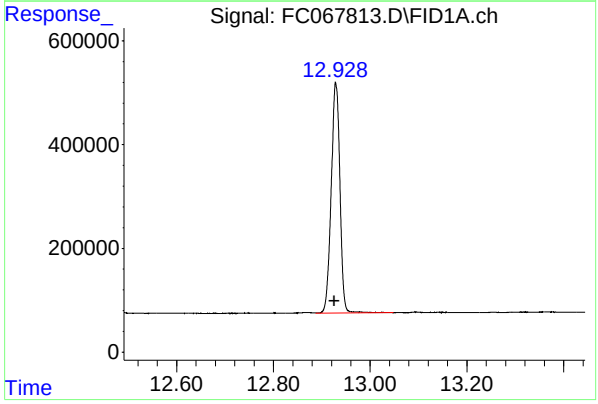





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-002




#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: 0.003 min
Response: 5545169
Conc: 38.20 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067813.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:53
Sample : P4860-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.275 | 3.225 | 3.301 | BV | 365 | 3379 | 0.06% | 0.011% |
| 2 | 3.310 | 3.301 | 3.329 | PV | 134 | 1051 | 0.02% | 0.003% |
| 3 | 3.337 | 3.329 | 3.348 | VV | 104 | 559 | 0.01% | 0.002% |
| 4 | 3.369 | 3.348 | 3.382 | VV | 85 | 961 | 0.02% | 0.003% |
| 5 | 3.396 | 3.382 | 3.407 | PV | 93 | 929 | 0.02% | 0.003% |
| 6 | 3.419 | 3.407 | 3.438 | VV | 69 | 1105 | 0.02% | 0.004% |
| 7 | 3.442 | 3.438 | 3.461 | VV | 95 | 1092 | 0.02% | 0.003% |
| 8 | 3.467 | 3.461 | 3.511 | VV | 147 | 2139 | 0.04% | 0.007% |
| 9 | 3.521 | 3.511 | 3.565 | VV | 166 | 2861 | 0.05% | 0.009% |
| 10 | 3.594 | 3.565 | 3.633 | VV | 201 | 5249 | 0.09% | 0.017% |
| 11 | 3.645 | 3.633 | 3.661 | VV | 187 | 2250 | 0.04% | 0.007% |
| 12 | 3.670 | 3.661 | 3.678 | VV | 161 | 1225 | 0.02% | 0.004% |
| 13 | 3.688 | 3.678 | 3.718 | VV | 220 | 2906 | 0.05% | 0.009% |
| 14 | 3.735 | 3.718 | 3.744 | VV | 160 | 1238 | 0.02% | 0.004% |
| 15 | 3.762 | 3.744 | 3.775 | PV | 161 | 1804 | 0.03% | 0.006% |
| 16 | 3.797 | 3.775 | 3.831 | VV | 160 | 3889 | 0.07% | 0.012% |
| 17 | 3.844 | 3.831 | 3.894 | VV | 180 | 4389 | 0.08% | 0.014% |
| 18 | 3.938 | 3.894 | 3.950 | VV | 360 | 7172 | 0.13% | 0.023% |
| 19 | 3.965 | 3.950 | 3.995 | VV | 884 | 9375 | 0.16% | 0.030% |
| 20 | 4.035 | 3.995 | 4.055 | VV | 237 | 5807 | 0.10% | 0.019% |
| 21 | 4.113 | 4.055 | 4.129 | VV | 739 | 13476 | 0.24% | 0.043% |
| 22 | 4.142 | 4.129 | 4.169 | VV | 353 | 5233 | 0.09% | 0.017% |
| 23 | 4.196 | 4.169 | 4.247 | VV | 546 | 11044 | 0.19% | 0.035% |
| 24 | 4.265 | 4.247 | 4.275 | VV | 234 | 2887 | 0.05% | 0.009% |
| 25 | 4.287 | 4.275 | 4.308 | VV | 187 | 2666 | 0.05% | 0.009% |
| 26 | 4.335 | 4.308 | 4.360 | VV | 803 | 11092 | 0.19% | 0.035% |
| 27 | 4.379 | 4.360 | 4.401 | VV | 254 | 4747 | 0.08% | 0.015% |
| 28 | 4.433 | 4.401 | 4.465 | VV | 1008 | 17089 | 0.30% | 0.055% |
| 29 | 4.502 | 4.465 | 4.522 | VV | 1002 | 15294 | 0.27% | 0.049% |
| 30 | 4.558 | 4.522 | 4.571 | VV | 1025 | 14027 | 0.24% | 0.045% |
| 31 | 4.587 | 4.571 | 4.670 | VV | 1398 | 20220 | 0.35% | 0.065% |
| 32 | 4.702 | 4.670 | 4.727 | VV | 293 | 5660 | 0.10% | 0.018% |
| 33 | 4.743 | 4.727 | 4.755 | VV | 156 | 1867 | 0.03% | 0.006% |
| 34 | 4.777 | 4.755 | 4.821 | VV | 216 | 4190 | 0.07% | 0.013% |
| 35 | 4.838 | 4.821 | 4.866 | VV | 155 | 2334 | 0.04% | 0.007% |
| 36 | 4.888 | 4.866 | 4.921 | PV | 304 | 5358 | 0.09% | 0.017% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 4.965 | 4.921 | 5.001 | VV | 3494 | 46001 | 0.80% | 0.147% |
| 38 | 5.021 | 5.001 | 5.055 | VV | 816 | 10666 | 0.19% | 0.034% |
| 39 | 5.074 | 5.055 | 5.112 | VV | 187 | 3995 | 0.07% | 0.013% |
| 40 | 5.158 | 5.112 | 5.174 | VV | 327 | 5809 | 0.10% | 0.019% |
| 41 | 5.190 | 5.174 | 5.301 | VV | 245 | 9085 | 0.16% | 0.029% |
| 42 | 5.309 | 5.301 | 5.320 | VV | 145 | 1066 | 0.02% | 0.003% |
| 43 | 5.334 | 5.320 | 5.347 | VV | 228 | 2304 | 0.04% | 0.007% |
| 44 | 5.368 | 5.347 | 5.387 | VV | 633 | 8679 | 0.15% | 0.028% |
| 45 | 5.409 | 5.387 | 5.448 | VV | 1350 | 17073 | 0.30% | 0.054% |
| 46 | 5.464 | 5.448 | 5.505 | VV | 385 | 5369 | 0.09% | 0.017% |
| 47 | 5.548 | 5.505 | 5.615 | VV | 281 | 8957 | 0.16% | 0.029% |
| 48 | 5.655 | 5.615 | 5.689 | VV | 261 | 5657 | 0.10% | 0.018% |
| 49 | 5.711 | 5.689 | 5.758 | PV | 252 | 4653 | 0.08% | 0.015% |
| 50 | 5.764 | 5.758 | 5.775 | VV | 133 | 944 | 0.02% | 0.003% |
| 51 | 5.785 | 5.775 | 5.811 | VV | 87 | 1266 | 0.02% | 0.004% |
| 52 | 5.822 | 5.811 | 5.832 | VV | 127 | 955 | 0.02% | 0.003% |
| 53 | 5.839 | 5.832 | 5.858 | VV | 102 | 1378 | 0.02% | 0.004% |
| 54 | 5.914 | 5.858 | 5.940 | VV | 329 | 8988 | 0.16% | 0.029% |
| 55 | 5.965 | 5.940 | 5.987 | VV | 435 | 7086 | 0.12% | 0.023% |
| 56 | 6.007 | 5.987 | 6.042 | VV | 691 | 9892 | 0.17% | 0.032% |
| 57 | 6.069 | 6.042 | 6.107 | VV | 457 | 8729 | 0.15% | 0.028% |
| 58 | 6.139 | 6.107 | 6.210 | VV | 375 | 9997 | 0.17% | 0.032% |
| 59 | 6.240 | 6.210 | 6.259 | VV | 233 | 3979 | 0.07% | 0.013% |
| 60 | 6.280 | 6.259 | 6.307 | VV | 135 | 2558 | 0.04% | 0.008% |
| 61 | 6.348 | 6.307 | 6.407 | VV | 5076 | 60506 | 1.06% | 0.193% |
| 62 | 6.431 | 6.407 | 6.455 | VV | 648 | 8266 | 0.14% | 0.026% |
| 63 | 6.466 | 6.455 | 6.477 | VV | 254 | 2528 | 0.04% | 0.008% |
| 64 | 6.497 | 6.477 | 6.515 | VV | 991 | 11250 | 0.20% | 0.036% |
| 65 | 6.530 | 6.515 | 6.549 | VV | 439 | 5165 | 0.09% | 0.016% |
| 66 | 6.568 | 6.549 | 6.641 | VV | 586 | 7932 | 0.14% | 0.025% |
| 67 | 6.663 | 6.641 | 6.700 | PV | 147 | 2052 | 0.04% | 0.007% |
| 68 | 6.741 | 6.700 | 6.762 | VV | 196 | 3007 | 0.05% | 0.010% |
| 69 | 6.788 | 6.762 | 6.817 | PV | 613 | 6910 | 0.12% | 0.022% |
| 70 | 6.841 | 6.817 | 6.858 | VV | 890 | 11910 | 0.21% | 0.038% |
| 71 | 6.891 | 6.858 | 6.934 | VV | 721 | 19651 | 0.34% | 0.063% |
| 72 | 6.967 | 6.934 | 6.989 | VV | 1166 | 17531 | 0.31% | 0.056% |
| 73 | 7.004 | 6.989 | 7.028 | VV | 175 | 2770 | 0.05% | 0.009% |
| 74 | 7.046 | 7.028 | 7.059 | VV | 235 | 2577 | 0.04% | 0.008% |
| 75 | 7.072 | 7.059 | 7.100 | VV | 331 | 3982 | 0.07% | 0.013% |
| 76 | 7.129 | 7.100 | 7.175 | VV | 2581 | 30071 | 0.52% | 0.096% |
| 77 | 7.187 | 7.175 | 7.218 | PV | 342 | 6474 | 0.11% | 0.021% |
| 78 | 7.236 | 7.218 | 7.251 | VV | 494 | 6194 | 0.11% | 0.020% |
| 79 | 7.269 | 7.251 | 7.301 | VV | 1214 | 16303 | 0.28% | 0.052% |
| 80 | 7.309 | 7.301 | 7.317 | VV | 201 | 1788 | 0.03% | 0.006% |
| 81 | 7.332 | 7.317 | 7.348 | VV | 429 | 5789 | 0.10% | 0.018% |
| 82 | 7.359 | 7.348 | 7.397 | VV | 576 | 7826 | 0.14% | 0.025% |
| 83 | 7.409 | 7.397 | 7.415 | VV | 128 | 1164 | 0.02% | 0.004% |
| 84 | 7.439 | 7.415 | 7.498 | VV | 231 | 4437 | 0.08% | 0.014% |
| 85 | 7.530 | 7.498 | 7.567 | VV | 1177 | 14878 | 0.26% | 0.047% |
| 86 | 7.583 | 7.567 | 7.599 | VV | 297 | 4299 | 0.07% | 0.014% |
| 87 | 7.613 | 7.599 | 7.660 | VV | 309 | 8016 | 0.14% | 0.026% |
| 88 | 7.691 | 7.660 | 7.708 | VV | 384 | 7141 | 0.12% | 0.023% |
| 89 | 7.723 | 7.708 | 7.735 | VV | 282 | 3163 | 0.06% | 0.010% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.743 | 7.735 | 7.773 | VV | 211 | 3316 | 0.06% | 0.011% |
| 91 | 7.789 | 7.773 | 7.814 | VV | 287 | 4452 | 0.08% | 0.014% |
| 92 | 7.835 | 7.814 | 7.860 | VV | 926 | 11183 | 0.20% | 0.036% |
| 93 | 7.891 | 7.860 | 7.915 | PV | 1189 | 15131 | 0.26% | 0.048% |
| 94 | 7.928 | 7.915 | 7.945 | VV | 165 | 2740 | 0.05% | 0.009% |
| 95 | 7.961 | 7.945 | 8.008 | VV | 346 | 6059 | 0.11% | 0.019% |
| 96 | 8.045 | 8.008 | 8.073 | VV | 504 | 9613 | 0.17% | 0.031% |
| 97 | 8.096 | 8.073 | 8.115 | VV | 220 | 3893 | 0.07% | 0.012% |
| 98 | 8.139 | 8.115 | 8.212 | VV | 3491 | 45996 | 0.80% | 0.147% |
| 99 | 8.253 | 8.212 | 8.271 | VV | 499 | 12380 | 0.22% | 0.040% |
| 100 | 8.290 | 8.271 | 8.312 | VV | 646 | 10176 | 0.18% | 0.032% |
| 101 | 8.332 | 8.312 | 8.351 | VV | 360 | 5029 | 0.09% | 0.016% |
| 102 | 8.372 | 8.351 | 8.415 | VV | 511 | 7856 | 0.14% | 0.025% |
| 103 | 8.441 | 8.415 | 8.574 | PV | 32123 | 474944 | 8.28% | 1.516% |
| 104 | 8.593 | 8.574 | 8.611 | VV | 1005 | 18990 | 0.33% | 0.061% |
| 105 | 8.628 | 8.611 | 8.640 | VV | 876 | 12264 | 0.21% | 0.039% |
| 106 | 8.651 | 8.640 | 8.660 | VV | 739 | 8849 | 0.15% | 0.028% |
| 107 | 8.677 | 8.660 | 8.721 | VV | 1271 | 26955 | 0.47% | 0.086% |
| 108 | 8.741 | 8.721 | 8.768 | VV | 530 | 9135 | 0.16% | 0.029% |
| 109 | 8.792 | 8.768 | 8.811 | VV | 404 | 7324 | 0.13% | 0.023% |
| 110 | 8.857 | 8.811 | 8.878 | VV | 1451 | 24539 | 0.43% | 0.078% |
| 111 | 8.896 | 8.878 | 8.911 | VV | 1081 | 14991 | 0.26% | 0.048% |
| 112 | 8.920 | 8.911 | 8.948 | VV | 752 | 15092 | 0.26% | 0.048% |
| 113 | 8.975 | 8.948 | 9.028 | VV | 2531 | 48643 | 0.85% | 0.155% |
| 114 | 9.048 | 9.028 | 9.071 | VV | 801 | 10160 | 0.18% | 0.032% |
| 115 | 9.096 | 9.071 | 9.122 | VV | 448 | 6381 | 0.11% | 0.020% |
| 116 | 9.150 | 9.122 | 9.195 | PV | 413 | 9550 | 0.17% | 0.030% |
| 117 | 9.202 | 9.195 | 9.226 | VV | 232 | 3023 | 0.05% | 0.010% |
| 118 | 9.260 | 9.226 | 9.305 | VV | 708 | 15399 | 0.27% | 0.049% |
| 119 | 9.326 | 9.305 | 9.368 | VV | 1284 | 22686 | 0.40% | 0.072% |
| 120 | 9.416 | 9.368 | 9.445 | VV | 398 | 10930 | 0.19% | 0.035% |
| 121 | 9.467 | 9.445 | 9.489 | VV | 538 | 9506 | 0.17% | 0.030% |
| 122 | 9.517 | 9.489 | 9.566 | VV | 705 | 12645 | 0.22% | 0.040% |
| 123 | 9.583 | 9.566 | 9.605 | VV | 173 | 2806 | 0.05% | 0.009% |
| 124 | 9.615 | 9.605 | 9.632 | VV | 142 | 1452 | 0.03% | 0.005% |
| 125 | 9.656 | 9.632 | 9.678 | PV | 465 | 6542 | 0.11% | 0.021% |
| 126 | 9.696 | 9.678 | 9.716 | VV | 303 | 4658 | 0.08% | 0.015% |
| 127 | 9.737 | 9.716 | 9.781 | VV | 1861 | 25941 | 0.45% | 0.083% |
| 128 | 9.819 | 9.781 | 9.862 | VV | 449 | 14755 | 0.26% | 0.047% |
| 129 | 9.904 | 9.862 | 9.945 | VV | 458 | 11286 | 0.20% | 0.036% |
| 130 | 9.977 | 9.945 | 9.998 | VV | 311 | 5733 | 0.10% | 0.018% |
| 131 | 10.015 | 9.998 | 10.035 | VV | 358 | 4739 | 0.08% | 0.015% |
| 132 | 10.057 | 10.035 | 10.071 | VV | 519 | 7529 | 0.13% | 0.024% |
| 133 | 10.085 | 10.071 | 10.101 | VV | 383 | 5711 | 0.10% | 0.018% |
| 134 | 10.127 | 10.101 | 10.150 | VV | 1477 | 25207 | 0.44% | 0.080% |
| 135 | 10.167 | 10.150 | 10.191 | VV | 570 | 11608 | 0.20% | 0.037% |
| 136 | 10.214 | 10.191 | 10.231 | VV | 659 | 12062 | 0.21% | 0.038% |
| 137 | 10.268 | 10.231 | 10.307 | VV | 642 | 18222 | 0.32% | 0.058% |
| 138 | 10.336 | 10.307 | 10.348 | VV | 596 | 10201 | 0.18% | 0.033% |
| 139 | 10.369 | 10.348 | 10.391 | VV | 658 | 13850 | 0.24% | 0.044% |
| 140 | 10.409 | 10.391 | 10.438 | VV | 868 | 19430 | 0.34% | 0.062% |
| 141 | 10.476 | 10.438 | 10.511 | VV | 1899 | 43945 | 0.77% | 0.140% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 142 | 10.546 | 10.511 | 10.573 | VV | 2530 | 52295 | 0.91% | 0.167% |
| 143 | 10.597 | 10.573 | 10.658 | VV | 2077 | 54916 | 0.96% | 0.175% |
| 144 | 10.706 | 10.658 | 10.745 | VV | 870 | 34965 | 0.61% | 0.112% |
| 145 | 10.755 | 10.745 | 10.775 | VV | 636 | 10113 | 0.18% | 0.032% |
| 146 | 10.794 | 10.775 | 10.822 | VV | 816 | 19673 | 0.34% | 0.063% |
| 147 | 10.896 | 10.822 | 10.915 | VV | 1173 | 47724 | 0.83% | 0.152% |
| 148 | 10.925 | 10.915 | 10.941 | VV | 827 | 11081 | 0.19% | 0.035% |
| 149 | 10.952 | 10.941 | 10.961 | VV | 726 | 8454 | 0.15% | 0.027% |
| 150 | 10.980 | 10.961 | 11.018 | VV | 898 | 23779 | 0.41% | 0.076% |
| 151 | 11.031 | 11.018 | 11.043 | VV | 731 | 9426 | 0.16% | 0.030% |
| 152 | 11.066 | 11.043 | 11.078 | VV | 702 | 13731 | 0.24% | 0.044% |
| 153 | 11.108 | 11.078 | 11.155 | VV | 1838 | 46128 | 0.80% | 0.147% |
| 154 | 11.176 | 11.155 | 11.208 | VV | 2931 | 50405 | 0.88% | 0.161% |
| 155 | 11.268 | 11.208 | 11.306 | VV | 3560 | 88827 | 1.55% | 0.284% |
| 156 | 11.328 | 11.306 | 11.356 | VV | 872 | 20396 | 0.36% | 0.065% |
| 157 | 11.413 | 11.356 | 11.431 | VV | 961 | 32473 | 0.57% | 0.104% |
| 158 | 11.473 | 11.431 | 11.508 | VV | 1442 | 51553 | 0.90% | 0.165% |
| 159 | 11.565 | 11.508 | 11.597 | VV | 1682 | 66248 | 1.16% | 0.211% |
| 160 | 11.630 | 11.597 | 11.650 | VV | 1583 | 39820 | 0.69% | 0.127% |
| 161 | 11.667 | 11.650 | 11.687 | VV | 1421 | 28320 | 0.49% | 0.090% |
| 162 | 11.694 | 11.687 | 11.711 | VV | 1322 | 17890 | 0.31% | 0.057% |
| 163 | 11.730 | 11.711 | 11.758 | VV | 1385 | 35290 | 0.62% | 0.113% |
| 164 | 11.784 | 11.758 | 11.795 | VV | 1794 | 32992 | 0.58% | 0.105% |
| 165 | 11.838 | 11.795 | 11.886 | VV | 2613 | 104154 | 1.82% | 0.332% |
| 166 | 11.979 | 11.886 | 12.025 | VV | 1773 | 114507 | 2.00% | 0.365% |
| 167 | 12.063 | 12.025 | 12.098 | VV | 2492 | 82587 | 1.44% | 0.264% |
| 168 | 12.117 | 12.098 | 12.128 | VV | 1800 | 30894 | 0.54% | 0.099% |
| 169 | 12.149 | 12.128 | 12.181 | VV | 1968 | 53365 | 0.93% | 0.170% |
| 170 | 12.203 | 12.181 | 12.215 | VV | 1588 | 28387 | 0.50% | 0.091% |
| 171 | 12.253 | 12.215 | 12.278 | VV | 1795 | 62840 | 1.10% | 0.201% |
| 172 | 12.296 | 12.278 | 12.309 | VV | 2034 | 33591 | 0.59% | 0.107% |
| 173 | 12.345 | 12.309 | 12.378 | VV | 3571 | 93202 | 1.63% | 0.297% |
| 174 | 12.408 | 12.378 | 12.465 | VV | 4985 | 122265 | 2.13% | 0.390% |
| 175 | 12.484 | 12.465 | 12.508 | VV | 3738 | 63886 | 1.11% | 0.204% |
| 176 | 12.519 | 12.508 | 12.538 | VV | 1729 | 29434 | 0.51% | 0.094% |
| 177 | 12.588 | 12.538 | 12.615 | VV | 1929 | 78380 | 1.37% | 0.250% |
| 178 | 12.630 | 12.615 | 12.665 | VV | 1703 | 42361 | 0.74% | 0.135% |
| 179 | 12.679 | 12.665 | 12.689 | VV | 1277 | 18008 | 0.31% | 0.057% |
| 180 | 12.747 | 12.689 | 12.763 | VV | 1836 | 65658 | 1.15% | 0.210% |
| 181 | 12.771 | 12.763 | 12.791 | VV | 1549 | 26085 | 0.46% | 0.083% |
| 182 | 12.805 | 12.791 | 12.831 | VV | 1678 | 37256 | 0.65% | 0.119% |
| 183 | 12.868 | 12.831 | 12.888 | VV | 2808 | 71850 | 1.25% | 0.229% |
| 184 | 12.929 | 12.888 | 13.050 | VV | 447080 | 5732812 | 100.00% | 18.298% |
| 185 | 13.061 | 13.050 | 13.074 | VV | 2447 | 33599 | 0.59% | 0.107% |
| 186 | 13.095 | 13.074 | 13.116 | VV | 3376 | 67496 | 1.18% | 0.215% |
| 187 | 13.142 | 13.116 | 13.195 | VV | 2701 | 118051 | 2.06% | 0.377% |
| 188 | 13.254 | 13.195 | 13.274 | VV | 2798 | 112745 | 1.97% | 0.360% |
| 189 | 13.323 | 13.274 | 13.338 | VV | 3067 | 104116 | 1.82% | 0.332% |
| 190 | 13.366 | 13.338 | 13.402 | VV | 3216 | 113535 | 1.98% | 0.362% |
| 191 | 13.411 | 13.402 | 13.435 | VV | 2778 | 54817 | 0.96% | 0.175% |
| 192 | 13.458 | 13.435 | 13.467 | VV | 2728 | 49302 | 0.86% | 0.157% |
| 193 | 13.530 | 13.467 | 13.568 | VV | 3503 | 175376 | 3.06% | 0.560% |
| 194 | 13.596 | 13.568 | 13.615 | VV | 3464 | 85115 | 1.48% | 0.272% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.627 | 13.615 | 13.645 | VV | 3315 | 58198 | 1.02% | 0.186% |
| 196 | 13.680 | 13.645 | 13.716 | VV | 5052 | 151443 | 2.64% | 0.483% |
| 197 | 13.731 | 13.716 | 13.752 | VV | 3226 | 66740 | 1.16% | 0.213% |
| 198 | 13.766 | 13.752 | 13.792 | VV | 3243 | 74060 | 1.29% | 0.236% |
| 199 | 13.819 | 13.792 | 13.861 | VV | 3595 | 134936 | 2.35% | 0.431% |
| 200 | 13.913 | 13.861 | 13.941 | VV | 4564 | 180565 | 3.15% | 0.576% |
| 201 | 13.972 | 13.941 | 14.034 | VV | 3899 | 203332 | 3.55% | 0.649% |
| 202 | 14.081 | 14.034 | 14.093 | VV | 4128 | 135141 | 2.36% | 0.431% |
| 203 | 14.116 | 14.093 | 14.145 | VV | 4746 | 131459 | 2.29% | 0.420% |
| 204 | 14.182 | 14.145 | 14.218 | VV | 4435 | 175650 | 3.06% | 0.561% |
| 205 | 14.241 | 14.218 | 14.275 | VV | 5555 | 146433 | 2.55% | 0.467% |
| 206 | 14.372 | 14.275 | 14.425 | VV | 5024 | 400612 | 6.99% | 1.279% |
| 207 | 14.442 | 14.425 | 14.466 | VV | 4422 | 104859 | 1.83% | 0.335% |
| 208 | 14.485 | 14.466 | 14.515 | VV | 5166 | 135180 | 2.36% | 0.431% |
| 209 | 14.549 | 14.515 | 14.654 | VV | 4452 | 363597 | 6.34% | 1.161% |
| 210 | 14.690 | 14.654 | 14.721 | VV | 4711 | 177697 | 3.10% | 0.567% |
| 211 | 14.781 | 14.721 | 14.845 | VV | 7759 | 370035 | 6.45% | 1.181% |
| 212 | 14.853 | 14.845 | 14.859 | VV | 4571 | 40374 | 0.70% | 0.129% |
| 213 | 14.863 | 14.859 | 14.885 | VV | 4682 | 66162 | 1.15% | 0.211% |
| 214 | 14.911 | 14.885 | 14.954 | VV | 4839 | 187574 | 3.27% | 0.599% |
| 215 | 15.032 | 14.954 | 15.051 | VV | 4849 | 259750 | 4.53% | 0.829% |
| 216 | 15.068 | 15.051 | 15.082 | VV | 4632 | 81760 | 1.43% | 0.261% |
| 217 | 15.108 | 15.082 | 15.128 | VV | 4873 | 125525 | 2.19% | 0.401% |
| 218 | 15.151 | 15.128 | 15.171 | VV | 4624 | 110155 | 1.92% | 0.352% |
| 219 | 15.207 | 15.171 | 15.228 | VV | 5166 | 163761 | 2.86% | 0.523% |
| 220 | 15.237 | 15.228 | 15.265 | VV | 4794 | 99964 | 1.74% | 0.319% |
| 221 | 15.301 | 15.265 | 15.339 | VV | 8044 | 261352 | 4.56% | 0.834% |
| 222 | 15.349 | 15.339 | 15.378 | VV | 5354 | 114601 | 2.00% | 0.366% |
| 223 | 15.385 | 15.378 | 15.407 | VV | 4947 | 77947 | 1.36% | 0.249% |
| 224 | 15.424 | 15.407 | 15.445 | VV | 5207 | 106430 | 1.86% | 0.340% |
| 225 | 15.519 | 15.445 | 15.531 | VV | 5013 | 235554 | 4.11% | 0.752% |
| 226 | 15.558 | 15.531 | 15.580 | VV | 5000 | 134966 | 2.35% | 0.431% |
| 227 | 15.613 | 15.580 | 15.652 | VV | 5982 | 227640 | 3.97% | 0.727% |
| 228 | 15.660 | 15.652 | 15.734 | VV | 5056 | 225702 | 3.94% | 0.720% |
| 229 | 15.759 | 15.734 | 15.773 | VV | 5136 | 113931 | 1.99% | 0.364% |
| 230 | 15.800 | 15.773 | 15.919 | VV | 9109 | 477231 | 8.32% | 1.523% |
| 231 | 15.938 | 15.919 | 15.947 | VV | 4566 | 74136 | 1.29% | 0.237% |
| 232 | 15.990 | 15.947 | 16.022 | VV | 6154 | 236870 | 4.13% | 0.756% |
| 233 | 16.031 | 16.022 | 16.061 | VV | 4903 | 112096 | 1.96% | 0.358% |
| 234 | 16.115 | 16.061 | 16.143 | VV | 5992 | 268576 | 4.68% | 0.857% |
| 235 | 16.157 | 16.143 | 16.210 | VV | 5861 | 200722 | 3.50% | 0.641% |
| 236 | 16.282 | 16.210 | 16.312 | VV | 10741 | 367806 | 6.42% | 1.174% |
| 237 | 16.324 | 16.312 | 16.348 | VV | 4934 | 96398 | 1.68% | 0.308% |
| 238 | 16.375 | 16.348 | 16.405 | VV | 4960 | 163335 | 2.85% | 0.521% |
| 239 | 16.427 | 16.405 | 16.437 | VV | 5265 | 99066 | 1.73% | 0.316% |
| 240 | 16.487 | 16.437 | 16.551 | VV | 5779 | 363282 | 6.34% | 1.159% |
| 241 | 16.620 | 16.551 | 16.681 | VV | 5609 | 397855 | 6.94% | 1.270% |
| 242 | 16.748 | 16.681 | 16.791 | VV | 11216 | 436444 | 7.61% | 1.393% |
| 243 | 16.861 | 16.791 | 16.891 | VV | 5846 | 305654 | 5.33% | 0.976% |
| 244 | 16.901 | 16.891 | 16.920 | VV | 5163 | 88000 | 1.54% | 0.281% |
| 245 | 16.978 | 16.920 | 17.016 | VV | 7615 | 324527 | 5.66% | 1.036% |
| 246 | 17.071 | 17.016 | 17.108 | VV | 6573 | 281269 | 4.91% | 0.898% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 17.151 | 17.108 | 17.171 | VV | 5682 | 188531 | 3.29% | 0.602% |
| 248 | 17.199 | 17.171 | 17.247 | VV | 16763 | 368570 | 6.43% | 1.176% |
| 249 | 17.268 | 17.247 | 17.278 | VV | 4572 | 77021 | 1.34% | 0.246% |
| 250 | 17.305 | 17.278 | 17.334 | VV | 6186 | 176658 | 3.08% | 0.564% |
| 251 | 17.349 | 17.334 | 17.368 | VV | 4778 | 90920 | 1.59% | 0.290% |
| 252 | 17.395 | 17.368 | 17.441 | VV | 4692 | 186307 | 3.25% | 0.595% |
| 253 | 17.479 | 17.441 | 17.501 | VV | 4799 | 156972 | 2.74% | 0.501% |
| 254 | 17.524 | 17.501 | 17.550 | VV | 5236 | 129923 | 2.27% | 0.415% |
| 255 | 17.566 | 17.550 | 17.588 | VV | 4531 | 96759 | 1.69% | 0.309% |
| 256 | 17.634 | 17.588 | 17.661 | VV | 11470 | 279043 | 4.87% | 0.891% |
| 257 | 17.670 | 17.661 | 17.708 | VV | 4264 | 100727 | 1.76% | 0.321% |
| 258 | 17.768 | 17.708 | 17.848 | VV | 8422 | 401994 | 7.01% | 1.283% |
| 259 | 17.871 | 17.848 | 17.885 | VV | 3107 | 63203 | 1.10% | 0.202% |
| 260 | 17.921 | 17.885 | 18.031 | VV | 4520 | 314222 | 5.48% | 1.003% |
| 261 | 18.056 | 18.031 | 18.100 | VV | 12585 | 246970 | 4.31% | 0.788% |
| 262 | 18.134 | 18.100 | 18.234 | VV | 7181 | 269315 | 4.70% | 0.860% |
| 263 | 18.263 | 18.234 | 18.275 | VV | 2199 | 51428 | 0.90% | 0.164% |
| 264 | 18.294 | 18.275 | 18.341 | VV | 2878 | 102954 | 1.80% | 0.329% |
| 265 | 18.355 | 18.341 | 18.405 | VV | 2605 | 82143 | 1.43% | 0.262% |
| 266 | 18.427 | 18.405 | 18.443 | VV | 5409 | 92703 | 1.62% | 0.296% |
| 267 | 18.466 | 18.443 | 18.508 | VV | 7725 | 189830 | 3.31% | 0.606% |
| 268 | 18.533 | 18.508 | 18.581 | VV | 4512 | 146522 | 2.56% | 0.468% |
| 269 | 18.603 | 18.581 | 18.651 | VV | 3239 | 96735 | 1.69% | 0.309% |
| 270 | 18.660 | 18.651 | 18.678 | VV | 2078 | 29898 | 0.52% | 0.095% |
| 271 | 18.695 | 18.678 | 18.708 | VV | 1645 | 28742 | 0.50% | 0.092% |
| 272 | 18.727 | 18.708 | 18.744 | VV | 2237 | 42683 | 0.74% | 0.136% |
| 273 | 18.767 | 18.744 | 18.802 | VV | 3650 | 78273 | 1.37% | 0.250% |
| 274 | 18.819 | 18.802 | 18.831 | VV | 1697 | 26487 | 0.46% | 0.085% |
| 275 | 18.863 | 18.831 | 18.928 | VV | 7296 | 188729 | 3.29% | 0.602% |
| 276 | 18.953 | 18.928 | 18.998 | VV | 2040 | 60882 | 1.06% | 0.194% |
| 277 | 19.033 | 18.998 | 19.091 | VV | 4099 | 122708 | 2.14% | 0.392% |
| 278 | 19.108 | 19.091 | 19.131 | VV | 1532 | 29406 | 0.51% | 0.094% |
| 279 | 19.152 | 19.131 | 19.178 | VV | 1410 | 33729 | 0.59% | 0.108% |
| 280 | 19.202 | 19.178 | 19.211 | VV | 1205 | 21492 | 0.37% | 0.069% |
| 281 | 19.248 | 19.211 | 19.335 | VV | 7026 | 221065 | 3.86% | 0.706% |
| 282 | 19.359 | 19.335 | 19.419 | VV | 2449 | 96611 | 1.69% | 0.308% |
| 283 | 19.550 | 19.419 | 19.593 | VV | 6636 | 330534 | 5.77% | 1.055% |
| 284 | 19.623 | 19.593 | 19.645 | VV | 6025 | 130254 | 2.27% | 0.416% |
| 285 | 19.663 | 19.645 | 19.711 | VV | 4234 | 146198 | 2.55% | 0.467% |
| 286 | 19.814 | 19.711 | 19.958 | VV | 8675 | 787018 | 13.73% | 2.512% |
| 287 | 19.985 | 19.958 | 20.009 | VV | 6617 | 158207 | 2.76% | 0.505% |
| 288 | 20.041 | 20.009 | 20.103 | VV | 10471 | 341894 | 5.96% | 1.091% |
| 289 | 20.140 | 20.103 | 20.163 | VV | 4654 | 157162 | 2.74% | 0.502% |
| 290 | 20.176 | 20.163 | 20.195 | VV | 4849 | 89532 | 1.56% | 0.286% |
| 291 | 20.206 | 20.195 | 20.213 | VV | 4483 | 48258 | 0.84% | 0.154% |
| 292 | 20.238 | 20.213 | 20.278 | VV | 4746 | 176332 | 3.08% | 0.563% |
| 293 | 20.341 | 20.278 | 20.393 | VV | 6960 | 347478 | 6.06% | 1.109% |
| 294 | 20.512 | 20.393 | 20.556 | VV | 11632 | 587293 | 10.24% | 1.874% |
| 295 | 20.565 | 20.556 | 20.621 | VV | 4790 | 168683 | 2.94% | 0.538% |
| 296 | 20.646 | 20.621 | 20.661 | VV | 4301 | 98019 | 1.71% | 0.313% |
| 297 | 20.709 | 20.661 | 20.747 | VV | 6120 | 247691 | 4.32% | 0.791% |
| 298 | 20.787 | 20.747 | 20.798 | VV | 4085 | 118460 | 2.07% | 0.378% |
| 299 | 20.806 | 20.798 | 20.815 | VV | 3953 | 38666 | 0.67% | 0.123% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 20.854 | 20.815 | 20.995 | VV | 3965 | 394856 | 6.89% | 1.260% |
| 301 | 21.038 | 20.995 | 21.091 | VV | 10472 | 344652 | 6.01% | 1.100% |
| 302 | 21.122 | 21.091 | 21.148 | VV | 4080 | 120179 | 2.10% | 0.384% |
| 303 | 21.250 | 21.148 | 21.455 | VV | 4945 | 649011 | 11.32% | 2.071% |
| 304 | 21.465 | 21.455 | 21.473 | VV | 2113 | 21177 | 0.37% | 0.068% |
| 305 | 21.485 | 21.473 | 21.515 | VV | 2096 | 49325 | 0.86% | 0.157% |
| 306 | 21.523 | 21.515 | 21.533 | VV | 1988 | 21668 | 0.38% | 0.069% |
| 307 | 21.594 | 21.533 | 21.607 | VV | 3378 | 113151 | 1.97% | 0.361% |
| 308 | 21.654 | 21.607 | 21.718 | VV | 8423 | 302540 | 5.28% | 0.966% |
| 309 | 21.739 | 21.718 | 21.749 | VV | 1209 | 21220 | 0.37% | 0.068% |
| 310 | 21.775 | 21.749 | 21.794 | VV | 1147 | 24810 | 0.43% | 0.079% |
| 311 | 21.840 | 21.794 | 21.885 | VV | 836 | 36365 | 0.63% | 0.116% |
| 312 | 21.895 | 21.885 | 21.916 | VV | 711 | 10731 | 0.19% | 0.034% |
| 313 | 21.923 | 21.916 | 21.975 | VV | 580 | 10255 | 0.18% | 0.033% |

Sum of corrected areas: 31331045

Aliphatic EPH 111424.M Tue Nov 19 10:53:50 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.6 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048772.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | | 0.31 | U | 0.31 | 0.69 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | | 3.52 | | 0.35 | 1.03 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | | 1.68 | J | 0.99 | 1.72 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | | 4.83 | | 2.07 | 2.76 | mg/kg |
| **SURROGATES** | | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | | 46.8 | | 40 - 140 | 94% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | | 40.6 | | 40 - 140 | 81% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 38.6 | | 40 - 140 | 77% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-03 | Acq On: | 19 Nov 2024 00:53 |
| Client Sample ID: | PH2-BOT-002 | Operator: | YP/AJ |
| Data file: | FD048772.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 73 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 769634 | 4.008 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 9816182 | 51.004 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 4525079 | 24.354 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 11004983 | 69.992 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 26115878 | 149.359 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.366 | 7.366 | 8231045 | 46.75 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.216 | 8.216 | 4676660 | 40.61 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.253 | 11.253 | 7416251 | 38.56 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048772.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:53
Operator : YP/AJ
Sample : P4860-03
Misc :
ALS Vial : 73 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-002

Integration File: sample.E
Quant Time: Nov 19 05:56:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 4) S 2-Bromonaphthalene (S... | 7.366 | 8231045 | 46.752 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 93.50% |
| 6) S 2-Flurobiphenyl (SURR) | 8.216 | 4676660 | 40.607 ug/ml |
| Spiked Amount 50.000 Range | 0 - 131 | Recovery = | 81.21% |
| 11) S ortho-Terphenyl (SURR) | 11.253 | 7416251 | 38.559 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 77.12% |
| Target Compounds | | | |

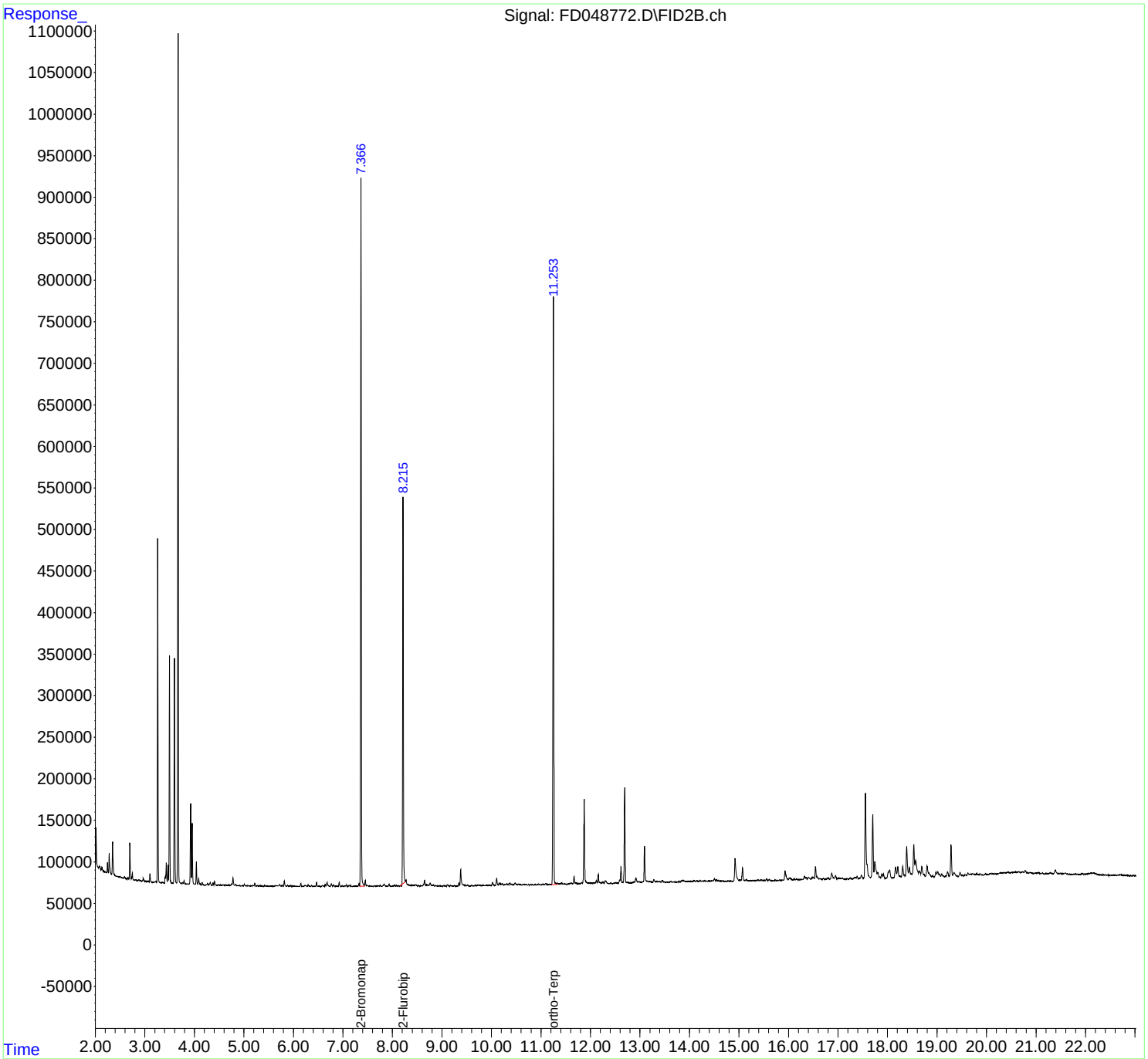
(f)=RT Delta > 1/2 Window (m)=manual int.

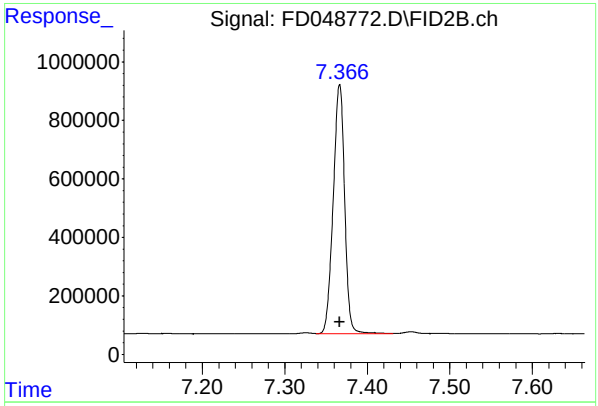
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048772.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:53
Operator : YP/AJ
Sample : P4860-03
Misc :
ALS Vial : 73 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-002

Integration File: sample.E
Quant Time: Nov 19 05:56:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

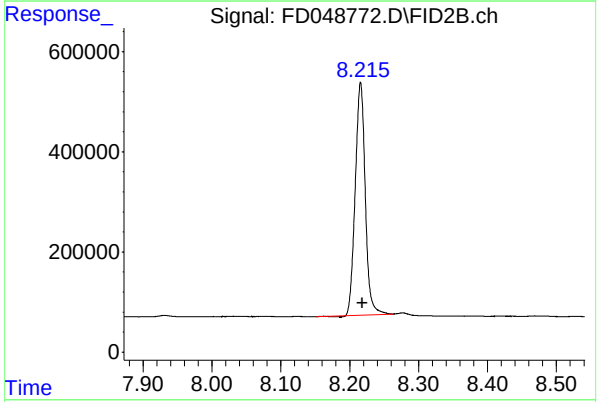





#4 2-Bromonaphthalene (SURR)

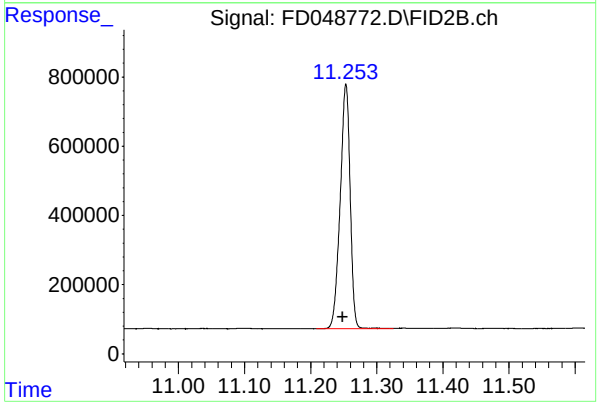
R.T.: 7.366 min
Delta R.T.: 0.000 min
Response: 8231045
Conc: 46.75 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-002




#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.003 min
Response: 4676660
Conc: 40.61 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: 0.005 min
Response: 7416251
Conc: 38.56 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048772.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:53
Sample : P4860-03
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.158 | 4.142 | 4.208 | PV | 2928 | 31553 | 0.38% | 0.082% |
| 2 | 4.272 | 4.208 | 4.295 | PV | 1795 | 34289 | 0.42% | 0.089% |
| 3 | 4.322 | 4.295 | 4.344 | VV | 3646 | 51268 | 0.62% | 0.133% |
| 4 | 4.351 | 4.344 | 4.359 | VV | 461 | 3435 | 0.04% | 0.009% |
| 5 | 4.377 | 4.359 | 4.391 | VV | 3186 | 31766 | 0.38% | 0.082% |
| 6 | 4.408 | 4.391 | 4.463 | VV | 5064 | 62349 | 0.75% | 0.162% |
| 7 | 4.477 | 4.463 | 4.495 | VV | 1312 | 12373 | 0.15% | 0.032% |
| 8 | 4.498 | 4.495 | 4.509 | VV | 235 | 1941 | 0.02% | 0.005% |
| 9 | 4.522 | 4.509 | 4.535 | VV | 693 | 7406 | 0.09% | 0.019% |
| 10 | 4.544 | 4.535 | 4.548 | VV | 495 | 2689 | 0.03% | 0.007% |
| 11 | 4.567 | 4.548 | 4.579 | VV | 863 | 9732 | 0.12% | 0.025% |
| 12 | 4.593 | 4.579 | 4.612 | VV | 894 | 7680 | 0.09% | 0.020% |
| 13 | 4.629 | 4.612 | 4.681 | VV | 774 | 17996 | 0.22% | 0.047% |
| 14 | 4.703 | 4.681 | 4.709 | VV | 831 | 10355 | 0.13% | 0.027% |
| 15 | 4.712 | 4.709 | 4.717 | VV | 595 | 2235 | 0.03% | 0.006% |
| 16 | 4.723 | 4.717 | 4.732 | VV | 678 | 5532 | 0.07% | 0.014% |
| 17 | 4.757 | 4.732 | 4.765 | VV | 2638 | 31664 | 0.38% | 0.082% |
| 18 | 4.780 | 4.765 | 4.809 | VV | 9431 | 113236 | 1.37% | 0.294% |
| 19 | 4.815 | 4.809 | 4.822 | VV | 561 | 4266 | 0.05% | 0.011% |
| 20 | 4.837 | 4.822 | 4.857 | VV | 2014 | 21287 | 0.26% | 0.055% |
| 21 | 4.868 | 4.857 | 4.876 | VV | 397 | 2973 | 0.04% | 0.008% |
| 22 | 4.905 | 4.876 | 4.954 | VV | 542 | 13421 | 0.16% | 0.035% |
| 23 | 4.970 | 4.954 | 4.994 | PV | 658 | 7771 | 0.09% | 0.020% |
| 24 | 5.009 | 4.994 | 5.049 | VV | 1995 | 28386 | 0.34% | 0.074% |
| 25 | 5.068 | 5.049 | 5.073 | VV | 422 | 4312 | 0.05% | 0.011% |
| 26 | 5.077 | 5.073 | 5.095 | VV | 387 | 3694 | 0.04% | 0.010% |
| 27 | 5.099 | 5.095 | 5.112 | VV | 347 | 2237 | 0.03% | 0.006% |
| 28 | 5.147 | 5.112 | 5.168 | VV | 506 | 9531 | 0.12% | 0.025% |
| 29 | 5.181 | 5.168 | 5.202 | VV | 1229 | 14860 | 0.18% | 0.039% |
| 30 | 5.220 | 5.202 | 5.253 | VV | 3684 | 42091 | 0.51% | 0.109% |
| 31 | 5.277 | 5.253 | 5.304 | VV | 1098 | 17657 | 0.21% | 0.046% |
| 32 | 5.331 | 5.304 | 5.339 | VV | 629 | 9536 | 0.12% | 0.025% |
| 33 | 5.346 | 5.339 | 5.376 | VV | 554 | 8742 | 0.11% | 0.023% |
| 34 | 5.417 | 5.385 | 5.447 | VV | 745 | 14730 | 0.18% | 0.038% |
| 35 | 5.463 | 5.447 | 5.487 | VV | 568 | 9006 | 0.11% | 0.023% |
| 36 | 5.492 | 5.487 | 5.496 | VV | 225 | 1096 | 0.01% | 0.003% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.527 | 5.496 | 5.533 | VV | 444 | 6266 | 0.08% | 0.016% |
| 38 | 5.539 | 5.533 | 5.555 | VV | 585 | 4804 | 0.06% | 0.012% |
| 39 | 5.564 | 5.555 | 5.569 | VV | 274 | 1720 | 0.02% | 0.004% |
| 40 | 5.577 | 5.569 | 5.596 | VV | 309 | 3478 | 0.04% | 0.009% |
| 41 | 5.602 | 5.596 | 5.610 | VV | 345 | 1941 | 0.02% | 0.005% |
| 42 | 5.657 | 5.610 | 5.670 | VV | 1023 | 28123 | 0.34% | 0.073% |
| 43 | 5.675 | 5.670 | 5.690 | VV | 955 | 8551 | 0.10% | 0.022% |
| 44 | 5.696 | 5.690 | 5.703 | VV | 687 | 5006 | 0.06% | 0.013% |
| 45 | 5.721 | 5.703 | 5.754 | VV | 2362 | 38834 | 0.47% | 0.101% |
| 46 | 5.771 | 5.754 | 5.796 | VV | 1083 | 17816 | 0.22% | 0.046% |
| 47 | 5.817 | 5.796 | 5.867 | VV | 6999 | 85667 | 1.04% | 0.222% |
| 48 | 5.884 | 5.867 | 5.905 | VV | 1511 | 20777 | 0.25% | 0.054% |
| 49 | 5.944 | 5.905 | 5.974 | VV | 1062 | 25816 | 0.31% | 0.067% |
| 50 | 5.983 | 5.974 | 5.993 | VV | 416 | 3950 | 0.05% | 0.010% |
| 51 | 6.006 | 5.993 | 6.029 | VV | 695 | 9554 | 0.12% | 0.025% |
| 52 | 6.047 | 6.029 | 6.056 | VV | 434 | 4641 | 0.06% | 0.012% |
| 53 | 6.078 | 6.056 | 6.099 | VV | 408 | 7081 | 0.09% | 0.018% |
| 54 | 6.108 | 6.099 | 6.128 | VV | 503 | 4890 | 0.06% | 0.013% |
| 55 | 6.151 | 6.128 | 6.174 | PV | 4192 | 45202 | 0.55% | 0.117% |
| 56 | 6.187 | 6.174 | 6.214 | VV | 724 | 10673 | 0.13% | 0.028% |
| 57 | 6.235 | 6.214 | 6.254 | VV | 1694 | 25749 | 0.31% | 0.067% |
| 58 | 6.268 | 6.254 | 6.281 | VV | 1278 | 14837 | 0.18% | 0.039% |
| 59 | 6.299 | 6.281 | 6.319 | VV | 2752 | 29542 | 0.36% | 0.077% |
| 60 | 6.332 | 6.319 | 6.349 | VV | 860 | 9716 | 0.12% | 0.025% |
| 61 | 6.368 | 6.349 | 6.387 | PV | 1698 | 18019 | 0.22% | 0.047% |
| 62 | 6.399 | 6.387 | 6.415 | VV | 412 | 5982 | 0.07% | 0.016% |
| 63 | 6.420 | 6.415 | 6.438 | VV | 475 | 4153 | 0.05% | 0.011% |
| 64 | 6.469 | 6.438 | 6.495 | VV | 5313 | 57535 | 0.70% | 0.149% |
| 65 | 6.517 | 6.495 | 6.555 | VV | 828 | 16228 | 0.20% | 0.042% |
| 66 | 6.587 | 6.555 | 6.625 | VV | 1585 | 27561 | 0.33% | 0.072% |
| 67 | 6.640 | 6.625 | 6.656 | VV | 2032 | 25085 | 0.30% | 0.065% |
| 68 | 6.681 | 6.656 | 6.732 | VV | 5289 | 92873 | 1.12% | 0.241% |
| 69 | 6.767 | 6.732 | 6.792 | VV | 3561 | 51827 | 0.63% | 0.135% |
| 70 | 6.811 | 6.792 | 6.834 | VV | 2453 | 32598 | 0.39% | 0.085% |
| 71 | 6.839 | 6.834 | 6.859 | VV | 658 | 7895 | 0.10% | 0.021% |
| 72 | 6.873 | 6.859 | 6.889 | VV | 859 | 9881 | 0.12% | 0.026% |
| 73 | 6.927 | 6.889 | 6.961 | VV | 5170 | 64342 | 0.78% | 0.167% |
| 74 | 6.986 | 6.961 | 7.000 | VV | 952 | 12208 | 0.15% | 0.032% |
| 75 | 7.003 | 7.000 | 7.019 | VV | 706 | 4571 | 0.06% | 0.012% |
| 76 | 7.035 | 7.019 | 7.045 | VV | 1220 | 10481 | 0.13% | 0.027% |
| 77 | 7.068 | 7.045 | 7.089 | VV | 1720 | 24856 | 0.30% | 0.065% |
| 78 | 7.127 | 7.089 | 7.143 | VV | 1670 | 29699 | 0.36% | 0.077% |
| 79 | 7.158 | 7.143 | 7.177 | VV | 1400 | 17316 | 0.21% | 0.045% |
| 80 | 7.183 | 7.177 | 7.191 | VV | 289 | 1739 | 0.02% | 0.005% |
| 81 | 7.235 | 7.191 | 7.251 | VV | 909 | 19101 | 0.23% | 0.050% |
| 82 | 7.265 | 7.251 | 7.270 | VV | 547 | 5646 | 0.07% | 0.015% |
| 83 | 7.277 | 7.270 | 7.306 | VV | 558 | 8750 | 0.11% | 0.023% |
| 84 | 7.326 | 7.306 | 7.340 | VV | 3767 | 40645 | 0.49% | 0.106% |
| 85 | 7.367 | 7.340 | 7.430 | VV | 854734 | 8259041 | 100.00% | 21.447% |
| 86 | 7.453 | 7.430 | 7.476 | VV | 7443 | 95796 | 1.16% | 0.249% |
| 87 | 7.490 | 7.476 | 7.519 | VV | 1521 | 29348 | 0.36% | 0.076% |
| 88 | 7.523 | 7.519 | 7.542 | VV | 702 | 7841 | 0.09% | 0.020% |
| 89 | 7.549 | 7.542 | 7.570 | VV | 696 | 10049 | 0.12% | 0.026% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.575 | 7.570 | 7.609 | VV | 759 | 12016 | 0.15% | 0.031% |
| 91 | 7.631 | 7.609 | 7.674 | PV | 1352 | 22325 | 0.27% | 0.058% |
| 92 | 7.704 | 7.674 | 7.739 | VV | 971 | 27633 | 0.33% | 0.072% |
| 93 | 7.756 | 7.739 | 7.781 | VV | 1409 | 19380 | 0.23% | 0.050% |
| 94 | 7.834 | 7.781 | 7.868 | VV | 3224 | 68373 | 0.83% | 0.178% |
| 95 | 7.880 | 7.868 | 7.894 | VV | 473 | 5846 | 0.07% | 0.015% |
| 96 | 7.932 | 7.894 | 7.989 | VV | 3132 | 54014 | 0.65% | 0.140% |
| 97 | 8.031 | 7.989 | 8.036 | VV | 1315 | 21469 | 0.26% | 0.056% |
| 98 | 8.041 | 8.036 | 8.057 | VV | 1208 | 12643 | 0.15% | 0.033% |
| 99 | 8.080 | 8.057 | 8.100 | VV | 1193 | 21521 | 0.26% | 0.056% |
| 100 | 8.106 | 8.100 | 8.112 | VV | 465 | 2983 | 0.04% | 0.008% |
| 101 | 8.122 | 8.112 | 8.144 | VV | 944 | 13073 | 0.16% | 0.034% |
| 102 | 8.161 | 8.144 | 8.187 | VV | 1313 | 16432 | 0.20% | 0.043% |
| 103 | 8.216 | 8.187 | 8.263 | VV | 468793 | 4879563 | 59.08% | 12.671% |
| 104 | 8.277 | 8.263 | 8.347 | VV | 8159 | 179647 | 2.18% | 0.467% |
| 105 | 8.354 | 8.347 | 8.370 | VV | 1883 | 22296 | 0.27% | 0.058% |
| 106 | 8.387 | 8.370 | 8.400 | VV | 1756 | 27370 | 0.33% | 0.071% |
| 107 | 8.418 | 8.400 | 8.429 | VV | 1639 | 24940 | 0.30% | 0.065% |
| 108 | 8.435 | 8.429 | 8.452 | VV | 1421 | 16614 | 0.20% | 0.043% |
| 109 | 8.471 | 8.452 | 8.508 | VV | 1861 | 45198 | 0.55% | 0.117% |
| 110 | 8.530 | 8.508 | 8.549 | VV | 1074 | 16997 | 0.21% | 0.044% |
| 111 | 8.582 | 8.549 | 8.602 | VV | 1049 | 23330 | 0.28% | 0.061% |
| 112 | 8.651 | 8.602 | 8.670 | VV | 7347 | 119008 | 1.44% | 0.309% |
| 113 | 8.686 | 8.670 | 8.699 | VV | 2157 | 28471 | 0.34% | 0.074% |
| 114 | 8.713 | 8.699 | 8.734 | VV | 1986 | 32438 | 0.39% | 0.084% |
| 115 | 8.762 | 8.734 | 8.796 | VV | 4123 | 83332 | 1.01% | 0.216% |
| 116 | 8.802 | 8.796 | 8.821 | VV | 1308 | 18048 | 0.22% | 0.047% |
| 117 | 8.833 | 8.821 | 8.852 | VV | 1562 | 19098 | 0.23% | 0.050% |
| 118 | 8.882 | 8.852 | 8.918 | VV | 983 | 23121 | 0.28% | 0.060% |
| 119 | 8.941 | 8.918 | 8.950 | VV | 571 | 8646 | 0.10% | 0.022% |
| 120 | 8.964 | 8.950 | 8.998 | VV | 812 | 13221 | 0.16% | 0.034% |
| 121 | 9.028 | 8.998 | 9.040 | PV | 1013 | 12258 | 0.15% | 0.032% |
| 122 | 9.049 | 9.040 | 9.072 | VV | 967 | 11598 | 0.14% | 0.030% |
| 123 | 9.078 | 9.072 | 9.090 | VV | 412 | 3175 | 0.04% | 0.008% |
| 124 | 9.111 | 9.090 | 9.159 | VV | 1891 | 35198 | 0.43% | 0.091% |
| 125 | 9.180 | 9.159 | 9.200 | VV | 780 | 12594 | 0.15% | 0.033% |
| 126 | 9.215 | 9.200 | 9.224 | VV | 499 | 5035 | 0.06% | 0.013% |
| 127 | 9.227 | 9.224 | 9.231 | VV | 498 | 1710 | 0.02% | 0.004% |
| 128 | 9.248 | 9.231 | 9.271 | VV | 858 | 10587 | 0.13% | 0.027% |
| 129 | 9.281 | 9.271 | 9.285 | PV | 189 | 1173 | 0.01% | 0.003% |
| 130 | 9.306 | 9.285 | 9.324 | VV | 652 | 9119 | 0.11% | 0.024% |
| 131 | 9.346 | 9.324 | 9.362 | VV | 4323 | 49906 | 0.60% | 0.130% |
| 132 | 9.380 | 9.362 | 9.427 | VV | 19928 | 275920 | 3.34% | 0.717% |
| 133 | 9.435 | 9.427 | 9.450 | VV | 1565 | 19690 | 0.24% | 0.051% |
| 134 | 9.454 | 9.450 | 9.490 | VV | 1222 | 21021 | 0.25% | 0.055% |
| 135 | 9.495 | 9.490 | 9.500 | VV | 542 | 3280 | 0.04% | 0.009% |
| 136 | 9.521 | 9.500 | 9.546 | VV | 1655 | 22845 | 0.28% | 0.059% |
| 137 | 9.598 | 9.566 | 9.610 | VV | 550 | 9651 | 0.12% | 0.025% |
| 138 | 9.614 | 9.610 | 9.644 | VV | 580 | 6225 | 0.08% | 0.016% |
| 139 | 9.670 | 9.644 | 9.682 | VV | 677 | 10405 | 0.13% | 0.027% |
| 140 | 9.687 | 9.682 | 9.706 | VV | 563 | 5355 | 0.06% | 0.014% |
| 141 | 9.724 | 9.706 | 9.745 | PV | 1655 | 19473 | 0.24% | 0.051% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.757 | 9.745 | 9.774 | VV | 966 | 12008 | 0.15% | 0.031% |
| 143 | 9.780 | 9.774 | 9.808 | VV | 661 | 9588 | 0.12% | 0.025% |
| 144 | 9.840 | 9.808 | 9.861 | VV | 937 | 16663 | 0.20% | 0.043% |
| 145 | 9.886 | 9.861 | 9.895 | VV | 712 | 9052 | 0.11% | 0.024% |
| 146 | 9.898 | 9.895 | 9.902 | VV | 590 | 2046 | 0.02% | 0.005% |
| 147 | 9.912 | 9.902 | 9.931 | VV | 728 | 9993 | 0.12% | 0.026% |
| 148 | 9.944 | 9.931 | 9.972 | VV | 982 | 15431 | 0.19% | 0.040% |
| 149 | 9.982 | 9.972 | 9.987 | VV | 818 | 5666 | 0.07% | 0.015% |
| 150 | 9.993 | 9.987 | 10.002 | VV | 683 | 5263 | 0.06% | 0.014% |
| 151 | 10.024 | 10.002 | 10.074 | VV | 3899 | 62934 | 0.76% | 0.163% |
| 152 | 10.107 | 10.074 | 10.138 | PV | 9008 | 124192 | 1.50% | 0.322% |
| 153 | 10.158 | 10.138 | 10.173 | VV | 3381 | 44497 | 0.54% | 0.116% |
| 154 | 10.185 | 10.173 | 10.198 | VV | 2306 | 27355 | 0.33% | 0.071% |
| 155 | 10.211 | 10.198 | 10.244 | VV | 2438 | 52027 | 0.63% | 0.135% |
| 156 | 10.256 | 10.244 | 10.278 | VV | 1128 | 20041 | 0.24% | 0.052% |
| 157 | 10.289 | 10.278 | 10.296 | VV | 1418 | 12685 | 0.15% | 0.033% |
| 158 | 10.312 | 10.296 | 10.335 | VV | 2363 | 39999 | 0.48% | 0.104% |
| 159 | 10.348 | 10.335 | 10.359 | VV | 1991 | 24712 | 0.30% | 0.064% |
| 160 | 10.374 | 10.359 | 10.399 | VV | 3079 | 51182 | 0.62% | 0.133% |
| 161 | 10.413 | 10.399 | 10.435 | VV | 1940 | 27784 | 0.34% | 0.072% |
| 162 | 10.475 | 10.435 | 10.494 | VV | 2730 | 56444 | 0.68% | 0.147% |
| 163 | 10.501 | 10.494 | 10.523 | VV | 1655 | 20820 | 0.25% | 0.054% |
| 164 | 10.541 | 10.523 | 10.602 | VV | 1603 | 50334 | 0.61% | 0.131% |
| 165 | 10.631 | 10.602 | 10.637 | VV | 824 | 13591 | 0.16% | 0.035% |
| 166 | 10.648 | 10.637 | 10.654 | VV | 1055 | 8737 | 0.11% | 0.023% |
| 167 | 10.674 | 10.654 | 10.698 | VV | 1384 | 25150 | 0.30% | 0.065% |
| 168 | 10.704 | 10.698 | 10.727 | VV | 711 | 7704 | 0.09% | 0.020% |
| 169 | 10.751 | 10.727 | 10.775 | VV | 499 | 9389 | 0.11% | 0.024% |
| 170 | 10.806 | 10.775 | 10.822 | PV | 480 | 9615 | 0.12% | 0.025% |
| 171 | 10.829 | 10.822 | 10.849 | VV | 405 | 3447 | 0.04% | 0.009% |
| 172 | 10.887 | 10.849 | 10.910 | VV | 1012 | 15440 | 0.19% | 0.040% |
| 173 | 10.925 | 10.910 | 10.936 | VV | 604 | 6435 | 0.08% | 0.017% |
| 174 | 10.953 | 10.936 | 10.970 | VV | 1616 | 18359 | 0.22% | 0.048% |
| 175 | 10.977 | 10.970 | 10.996 | VV | 513 | 5238 | 0.06% | 0.014% |
| 176 | 11.003 | 10.996 | 11.012 | VV | 355 | 2773 | 0.03% | 0.007% |
| 177 | 11.037 | 11.012 | 11.075 | VV | 1158 | 23784 | 0.29% | 0.062% |
| 178 | 11.099 | 11.075 | 11.127 | VV | 1864 | 27235 | 0.33% | 0.071% |
| 179 | 11.144 | 11.127 | 11.162 | VV | 811 | 9280 | 0.11% | 0.024% |
| 180 | 11.194 | 11.162 | 11.207 | VV | 731 | 10422 | 0.13% | 0.027% |
| 181 | 11.253 | 11.207 | 11.290 | VV | 707732 | 7396770 | 89.56% | 19.208% |
| 182 | 11.297 | 11.290 | 11.325 | VV | 1937 | 31310 | 0.38% | 0.081% |
| 183 | 11.342 | 11.325 | 11.359 | VV | 1733 | 27351 | 0.33% | 0.071% |
| 184 | 11.376 | 11.359 | 11.389 | VV | 1190 | 18368 | 0.22% | 0.048% |
| 185 | 11.420 | 11.389 | 11.455 | VV | 2115 | 48509 | 0.59% | 0.126% |
| 186 | 11.470 | 11.455 | 11.494 | VV | 942 | 16947 | 0.21% | 0.044% |
| 187 | 11.502 | 11.494 | 11.530 | VV | 722 | 10606 | 0.13% | 0.028% |
| 188 | 11.547 | 11.530 | 11.565 | VV | 622 | 10833 | 0.13% | 0.028% |
| 189 | 11.586 | 11.565 | 11.592 | VV | 1209 | 16322 | 0.20% | 0.042% |
| 190 | 11.605 | 11.592 | 11.624 | VV | 1812 | 27089 | 0.33% | 0.070% |
| 191 | 11.633 | 11.624 | 11.647 | VV | 1265 | 14912 | 0.18% | 0.039% |
| 192 | 11.671 | 11.647 | 11.693 | VV | 9536 | 122113 | 1.48% | 0.317% |
| 193 | 11.703 | 11.693 | 11.737 | VV | 2153 | 37104 | 0.45% | 0.096% |
| 194 | 11.748 | 11.737 | 11.772 | VV | 973 | 17775 | 0.22% | 0.046% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.780 | 11.772 | 11.790 | VV | 854 | 8286 | 0.10% | 0.022% |
| 196 | 11.831 | 11.790 | 11.844 | VV | 2274 | 45875 | 0.56% | 0.119% |
| 197 | 11.875 | 11.844 | 11.931 | VV | 102191 | 1263137 | 15.29% | 3.280% |
| 198 | 11.935 | 11.931 | 11.984 | VV | 1623 | 43060 | 0.52% | 0.112% |
| 199 | 11.993 | 11.984 | 12.010 | VV | 1314 | 17934 | 0.22% | 0.047% |
| 200 | 12.023 | 12.010 | 12.055 | VV | 1302 | 29500 | 0.36% | 0.077% |
| 201 | 12.089 | 12.055 | 12.100 | VV | 1643 | 36639 | 0.44% | 0.095% |
| 202 | 12.121 | 12.100 | 12.140 | VV | 5184 | 71212 | 0.86% | 0.185% |
| 203 | 12.160 | 12.140 | 12.184 | VV | 11326 | 142698 | 1.73% | 0.371% |
| 204 | 12.188 | 12.184 | 12.214 | VV | 1999 | 26128 | 0.32% | 0.068% |
| 205 | 12.231 | 12.214 | 12.237 | VV | 1839 | 18797 | 0.23% | 0.049% |
| 206 | 12.253 | 12.237 | 12.275 | VV | 2511 | 36054 | 0.44% | 0.094% |
| 207 | 12.299 | 12.275 | 12.387 | VV | 3809 | 102498 | 1.24% | 0.266% |
| 208 | 12.394 | 12.387 | 12.403 | VV | 663 | 4969 | 0.06% | 0.013% |
| 209 | 12.409 | 12.403 | 12.449 | VV | 554 | 11868 | 0.14% | 0.031% |
| 210 | 12.481 | 12.449 | 12.490 | VV | 827 | 13499 | 0.16% | 0.035% |
| 211 | 12.506 | 12.490 | 12.520 | VV | 1207 | 19367 | 0.23% | 0.050% |
| 212 | 12.527 | 12.520 | 12.567 | VV | 1070 | 20985 | 0.25% | 0.054% |
| 213 | 12.588 | 12.567 | 12.597 | VV | 4188 | 46278 | 0.56% | 0.120% |
| 214 | 12.617 | 12.597 | 12.643 | VV | 20163 | 251061 | 3.04% | 0.652% |
| 215 | 12.692 | 12.643 | 12.726 | VV | 115586 | 1387031 | 16.79% | 3.602% |
| 216 | 12.737 | 12.726 | 12.749 | VV | 1347 | 16456 | 0.20% | 0.043% |
| 217 | 12.753 | 12.749 | 12.794 | VV | 1334 | 25840 | 0.31% | 0.067% |
| 218 | 12.798 | 12.794 | 12.825 | VV | 797 | 11663 | 0.14% | 0.030% |
| 219 | 12.880 | 12.825 | 12.893 | VV | 1866 | 47220 | 0.57% | 0.123% |
| 220 | 12.917 | 12.893 | 12.959 | VV | 6370 | 128966 | 1.56% | 0.335% |
| 221 | 12.981 | 12.959 | 13.036 | VV | 2241 | 70555 | 0.85% | 0.183% |
| 222 | 13.093 | 13.036 | 13.166 | VV | 44543 | 651658 | 7.89% | 1.692% |
| 223 | 13.171 | 13.166 | 13.178 | VV | 1679 | 11050 | 0.13% | 0.029% |
| 224 | 13.194 | 13.178 | 13.211 | VV | 1914 | 34095 | 0.41% | 0.089% |
| 225 | 13.218 | 13.211 | 13.236 | VV | 1713 | 20201 | 0.24% | 0.052% |
| 226 | 13.241 | 13.236 | 13.260 | VV | 1262 | 17647 | 0.21% | 0.046% |
| 227 | 13.282 | 13.260 | 13.309 | VV | 4339 | 74843 | 0.91% | 0.194% |
| 228 | 13.327 | 13.309 | 13.336 | VV | 1621 | 23881 | 0.29% | 0.062% |
| 229 | 13.358 | 13.336 | 13.364 | VV | 1656 | 25944 | 0.31% | 0.067% |
| 230 | 13.368 | 13.364 | 13.375 | VV | 1485 | 8570 | 0.10% | 0.022% |
| 231 | 13.395 | 13.375 | 13.418 | VV | 1797 | 35493 | 0.43% | 0.092% |
| 232 | 13.448 | 13.418 | 13.518 | VV | 2920 | 87291 | 1.06% | 0.227% |
| 233 | 13.552 | 13.518 | 13.559 | VV | 774 | 16739 | 0.20% | 0.043% |
| 234 | 13.578 | 13.559 | 13.594 | VV | 865 | 14250 | 0.17% | 0.037% |
| 235 | 13.626 | 13.594 | 13.655 | VV | 1813 | 40439 | 0.49% | 0.105% |
| 236 | 13.663 | 13.655 | 13.669 | VV | 874 | 6826 | 0.08% | 0.018% |
| 237 | 13.695 | 13.669 | 13.738 | VV | 963 | 29426 | 0.36% | 0.076% |
| 238 | 13.743 | 13.738 | 13.754 | VV | 736 | 5259 | 0.06% | 0.014% |
| 239 | 13.777 | 13.754 | 13.814 | VV | 1201 | 33666 | 0.41% | 0.087% |
| 240 | 13.843 | 13.814 | 13.855 | VV | 2258 | 38800 | 0.47% | 0.101% |
| 241 | 13.876 | 13.855 | 13.893 | VV | 2421 | 46995 | 0.57% | 0.122% |
| 242 | 13.902 | 13.893 | 13.912 | VV | 1780 | 18184 | 0.22% | 0.047% |
| 243 | 13.918 | 13.912 | 13.941 | VV | 1638 | 21719 | 0.26% | 0.056% |
| 244 | 13.957 | 13.941 | 13.962 | VV | 1171 | 13157 | 0.16% | 0.034% |
| 245 | 13.980 | 13.962 | 13.990 | VV | 1312 | 19176 | 0.23% | 0.050% |
| 246 | 14.004 | 13.990 | 14.021 | VV | 1491 | 24030 | 0.29% | 0.062% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 14.032 | 14.021 | 14.051 | VV | 1350 | 19063 | 0.23% | 0.050% |
| 248 | 14.070 | 14.051 | 14.074 | VV | 1539 | 15529 | 0.19% | 0.040% |
| 249 | 14.095 | 14.074 | 14.122 | VV | 2119 | 47822 | 0.58% | 0.124% |
| 250 | 14.152 | 14.122 | 14.175 | VV | 1883 | 45216 | 0.55% | 0.117% |
| 251 | 14.184 | 14.175 | 14.192 | VV | 1244 | 11273 | 0.14% | 0.029% |
| 252 | 14.217 | 14.192 | 14.252 | VV | 1772 | 49977 | 0.61% | 0.130% |
| 253 | 14.259 | 14.252 | 14.265 | VV | 1405 | 9783 | 0.12% | 0.025% |
| 254 | 14.308 | 14.265 | 14.335 | VV | 1762 | 58371 | 0.71% | 0.152% |
| 255 | 14.355 | 14.335 | 14.364 | VV | 1270 | 18102 | 0.22% | 0.047% |
| 256 | 14.402 | 14.364 | 14.429 | VV | 1394 | 44323 | 0.54% | 0.115% |
| 257 | 14.436 | 14.429 | 14.455 | VV | 1408 | 19319 | 0.23% | 0.050% |
| 258 | 14.471 | 14.455 | 14.482 | VV | 1875 | 24901 | 0.30% | 0.065% |
| 259 | 14.504 | 14.482 | 14.529 | VV | 3693 | 70813 | 0.86% | 0.184% |
| 260 | 14.542 | 14.529 | 14.570 | VV | 2739 | 47303 | 0.57% | 0.123% |
| 261 | 14.584 | 14.570 | 14.614 | VV | 1707 | 32829 | 0.40% | 0.085% |
| 262 | 14.622 | 14.614 | 14.631 | VV | 1069 | 10053 | 0.12% | 0.026% |
| 263 | 14.642 | 14.631 | 14.665 | VV | 1386 | 22135 | 0.27% | 0.057% |
| 264 | 14.672 | 14.665 | 14.701 | VV | 1018 | 17162 | 0.21% | 0.045% |
| 265 | 14.715 | 14.701 | 14.732 | VV | 721 | 12227 | 0.15% | 0.032% |
| 266 | 14.737 | 14.732 | 14.744 | VV | 722 | 4055 | 0.05% | 0.011% |
| 267 | 14.759 | 14.744 | 14.765 | VV | 895 | 8645 | 0.10% | 0.022% |
| 268 | 14.770 | 14.765 | 14.777 | VV | 859 | 5962 | 0.07% | 0.015% |
| 269 | 14.790 | 14.777 | 14.805 | VV | 1028 | 14707 | 0.18% | 0.038% |
| 270 | 14.810 | 14.805 | 14.836 | VV | 860 | 13656 | 0.17% | 0.035% |
| 271 | 14.841 | 14.836 | 14.858 | VV | 814 | 7660 | 0.09% | 0.020% |
| 272 | 14.919 | 14.858 | 15.002 | VV | 28108 | 582954 | 7.06% | 1.514% |
| 273 | 15.022 | 15.002 | 15.039 | VV | 1790 | 35122 | 0.43% | 0.091% |
| 274 | 15.071 | 15.039 | 15.097 | VV | 16485 | 234263 | 2.84% | 0.608% |
| 275 | 15.106 | 15.097 | 15.122 | VV | 1400 | 18332 | 0.22% | 0.048% |
| 276 | 15.152 | 15.122 | 15.172 | VV | 2276 | 48267 | 0.58% | 0.125% |
| 277 | 15.186 | 15.172 | 15.205 | VV | 1111 | 19468 | 0.24% | 0.051% |
| 278 | 15.217 | 15.205 | 15.223 | VV | 749 | 7911 | 0.10% | 0.021% |
| 279 | 15.248 | 15.223 | 15.262 | VV | 982 | 20690 | 0.25% | 0.054% |
| 280 | 15.279 | 15.262 | 15.307 | VV | 1239 | 29285 | 0.35% | 0.076% |
| 281 | 15.317 | 15.307 | 15.331 | VV | 871 | 11308 | 0.14% | 0.029% |
| 282 | 15.361 | 15.331 | 15.368 | VV | 1031 | 17989 | 0.22% | 0.047% |
| 283 | 15.387 | 15.368 | 15.418 | VV | 1432 | 32327 | 0.39% | 0.084% |
| 284 | 15.439 | 15.418 | 15.485 | VV | 1723 | 47829 | 0.58% | 0.124% |
| 285 | 15.488 | 15.485 | 15.500 | VV | 718 | 5780 | 0.07% | 0.015% |
| 286 | 15.516 | 15.500 | 15.537 | VV | 1207 | 21803 | 0.26% | 0.057% |
| 287 | 15.559 | 15.537 | 15.582 | VV | 2504 | 41525 | 0.50% | 0.108% |
| 288 | 15.616 | 15.582 | 15.664 | VV | 1896 | 40255 | 0.49% | 0.105% |
| 289 | 15.671 | 15.664 | 15.685 | VV | 390 | 2616 | 0.03% | 0.007% |
| 290 | 15.727 | 15.685 | 15.766 | PV | 1164 | 26945 | 0.33% | 0.070% |
| 291 | 15.785 | 15.766 | 15.806 | VV | 598 | 10562 | 0.13% | 0.027% |
| 292 | 15.843 | 15.806 | 15.858 | VV | 650 | 17119 | 0.21% | 0.044% |
| 293 | 15.870 | 15.858 | 15.887 | VV | 898 | 11667 | 0.14% | 0.030% |
| 294 | 15.930 | 15.887 | 15.999 | VV | 11803 | 270396 | 3.27% | 0.702% |
| 295 | 16.016 | 15.999 | 16.087 | VV | 3410 | 103610 | 1.25% | 0.269% |
| 296 | 16.112 | 16.087 | 16.139 | VV | 2397 | 42100 | 0.51% | 0.109% |
| 297 | 16.165 | 16.139 | 16.192 | VV | 2072 | 41851 | 0.51% | 0.109% |
| 298 | 16.200 | 16.192 | 16.212 | VV | 905 | 10541 | 0.13% | 0.027% |
| 299 | 16.229 | 16.212 | 16.245 | VV | 1411 | 20143 | 0.24% | 0.052% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 16.261 | 16.245 | 16.270 | VV | 1173 | 15097 | 0.18% | 0.039% |
| 301 | 16.281 | 16.270 | 16.295 | VV | 1354 | 18454 | 0.22% | 0.048% |
| 302 | 16.323 | 16.295 | 16.344 | VV | 5088 | 92177 | 1.12% | 0.239% |
| 303 | 16.356 | 16.344 | 16.377 | VV | 3563 | 49375 | 0.60% | 0.128% |
| 304 | 16.404 | 16.377 | 16.452 | VV | 3520 | 103682 | 1.26% | 0.269% |
| 305 | 16.501 | 16.452 | 16.519 | VV | 3615 | 104940 | 1.27% | 0.273% |
| 306 | 16.544 | 16.519 | 16.619 | VV | 16094 | 314205 | 3.80% | 0.816% |
| 307 | 16.635 | 16.619 | 16.679 | VV | 1510 | 39079 | 0.47% | 0.101% |
| 308 | 16.705 | 16.679 | 16.737 | VV | 1717 | 38788 | 0.47% | 0.101% |
| 309 | 16.752 | 16.737 | 16.763 | VV | 1074 | 14076 | 0.17% | 0.037% |
| 310 | 16.797 | 16.763 | 16.839 | VV | 2149 | 63060 | 0.76% | 0.164% |
| 311 | 16.872 | 16.839 | 16.927 | VV | 7047 | 186833 | 2.26% | 0.485% |
| 312 | 16.950 | 16.927 | 17.002 | VV | 4694 | 102810 | 1.24% | 0.267% |
| 313 | 17.024 | 17.002 | 17.045 | VV | 1621 | 35215 | 0.43% | 0.091% |
| 314 | 17.085 | 17.045 | 17.124 | VV | 1605 | 52357 | 0.63% | 0.136% |
| 315 | 17.129 | 17.124 | 17.147 | VV | 631 | 6515 | 0.08% | 0.017% |
| 316 | 17.184 | 17.147 | 17.216 | VV | 669 | 18337 | 0.22% | 0.048% |
| 317 | 17.243 | 17.216 | 17.262 | PV | 1450 | 22767 | 0.28% | 0.059% |
| 318 | 17.274 | 17.262 | 17.294 | VV | 805 | 11308 | 0.14% | 0.029% |
| 319 | 17.357 | 17.294 | 17.370 | VV | 2129 | 65006 | 0.79% | 0.169% |
| 320 | 17.385 | 17.370 | 17.409 | VV | 3423 | 49952 | 0.60% | 0.130% |
| 321 | 17.473 | 17.409 | 17.504 | VV | 4863 | 108229 | 1.31% | 0.281% |
| 322 | 17.553 | 17.504 | 17.653 | VV | 102827 | 1860033 | 22.52% | 4.830% |
| 323 | 17.701 | 17.653 | 17.725 | VV | 77059 | 1086447 | 13.15% | 2.821% |
| 324 | 17.743 | 17.725 | 17.791 | VV | 20737 | 503598 | 6.10% | 1.308% |
| 325 | 17.805 | 17.791 | 17.837 | VV | 7497 | 135624 | 1.64% | 0.352% |
| 326 | 17.846 | 17.837 | 17.864 | VV | 1957 | 27111 | 0.33% | 0.070% |
| 327 | 17.884 | 17.864 | 17.902 | VV | 5688 | 86267 | 1.04% | 0.224% |
| 328 | 17.918 | 17.902 | 17.967 | VV | 5167 | 82096 | 0.99% | 0.213% |
| 329 | 18.042 | 17.967 | 18.103 | PV | 10068 | 300931 | 3.64% | 0.781% |
| 330 | 18.162 | 18.103 | 18.186 | PV | 9308 | 117169 | 1.42% | 0.304% |

Sum of corrected areas: 38509378

Aromatic EPH 111424.M Tue Nov 19 06:21:47 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.8 |
| Sample Wt/Vol: | 30.09 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 2:45 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FC067814.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.44 | J | 1 | 0.25 | 0.68 | mg/kg | FC067814.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.37 | J | 1 | 0.31 | 1.02 | mg/kg | FC067814.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.82 | U | 1 | 0.82 | 1.36 | mg/kg | FC067814.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 6.53 | | 1 | 1.83 | 2.04 | mg/kg | FC067814.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FD048773.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.48 | J | 1 | 0.35 | 1.02 | mg/kg | FD048773.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.49 | J | 1 | 0.98 | 1.70 | mg/kg | FD048773.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.19 | J | 1 | 2.04 | 2.72 | mg/kg | FD048773.D |
| Total AliphaticEPH | Total AliphaticEPH | 7.34 | | | 3.58 | 6.12 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 4.16 | J | | 3.67 | 6.12 | mg/kg | |
| Total EPH | Total EPH | 11.5 | J | | 7.26 | 12.2 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.8 |
| Sample Wt/Vol: | 30.09 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067814.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.44 | J | 0.25 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.37 | J | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.82 | U | 0.82 | 1.36 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 6.53 | | 1.83 | 2.04 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 28.9 | | 40 - 140 | 58% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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

# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-04 | Acq On: | 19 Nov 2024 02:45 |
| Client Sample ID: | PH2-BOT-003 | Operator: | YP/AJ |
| Data file: | FC067814.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 24 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 564233 | 3.403 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 1105695 | 6.489 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 912978 | 5.382 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 1409377 | 8.961 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 11642285 | 96.129 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 15634568 | 120.365 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.930 | 12.930 | 4193020 | 28.89 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 3992283 | 24.235 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067814.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 02:45
Operator : YP/AJ
Sample : P4860-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-003

Integration File: sample.E
Quant Time: Nov 19 10:46:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 12.930 | 4193020 | 28.885 ug/ml |
| Spiked Amount 50.000 | | Recovery = 57.77% | |
| Target Compounds | | | |

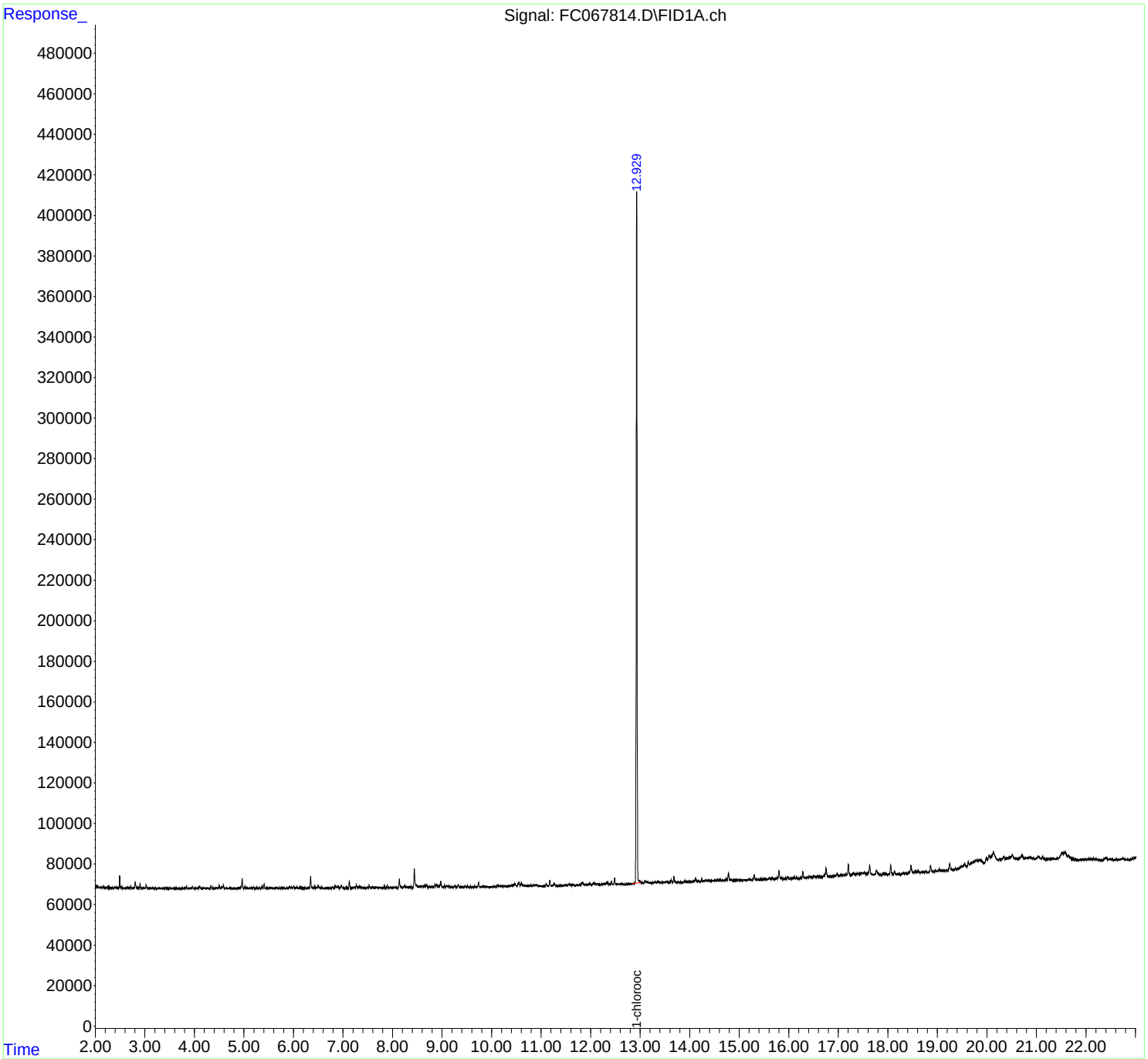
(f)=RT Delta > 1/2 Window (m)=manual int.

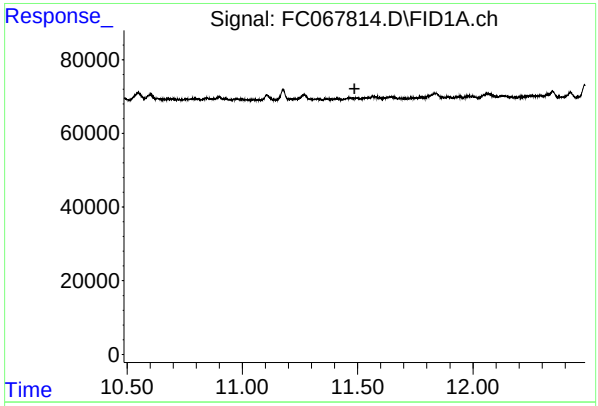
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067814.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 02:45
Operator : YP/AJ
Sample : P4860-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-003

Integration File: sample.E
Quant Time: Nov 19 10:46:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

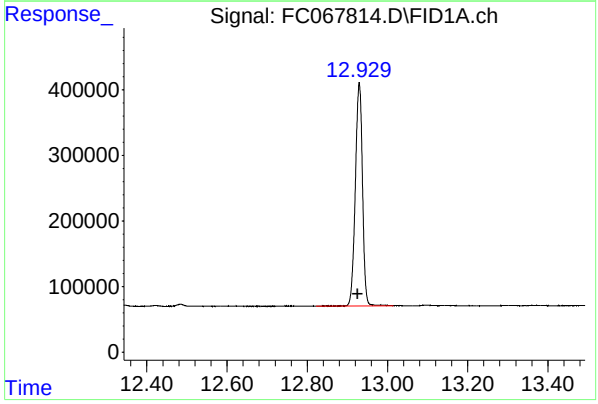





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-003




#12 1-chlorooctadecane (SURR)

R.T.: 12.930 min
Delta R.T.: 0.004 min
Response: 4193020
Conc: 28.89 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067814.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 02:45
Sample : P4860-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.249 | 3.225 | 3.255 | BV | 58 | 66 | 0.00% | 0.000% |
| 2 | 3.273 | 3.255 | 3.348 | PV | 311 | 5012 | 0.12% | 0.024% |
| 3 | 3.370 | 3.348 | 3.388 | PV | 188 | 2267 | 0.05% | 0.011% |
| 4 | 3.394 | 3.388 | 3.404 | VV | 123 | 734 | 0.02% | 0.003% |
| 5 | 3.425 | 3.404 | 3.463 | VV | 472 | 5366 | 0.13% | 0.025% |
| 6 | 3.477 | 3.463 | 3.485 | VV | 124 | 876 | 0.02% | 0.004% |
| 7 | 3.527 | 3.485 | 3.537 | VV | 107 | 2207 | 0.05% | 0.010% |
| 8 | 3.548 | 3.537 | 3.561 | VV | 181 | 1636 | 0.04% | 0.008% |
| 9 | 3.571 | 3.561 | 3.581 | VV | 194 | 1692 | 0.04% | 0.008% |
| 10 | 3.594 | 3.581 | 3.624 | VV | 371 | 4255 | 0.10% | 0.020% |
| 11 | 3.639 | 3.624 | 3.651 | VV | 248 | 2470 | 0.06% | 0.012% |
| 12 | 3.660 | 3.651 | 3.721 | VV | 217 | 4143 | 0.10% | 0.020% |
| 13 | 3.761 | 3.721 | 3.813 | VV | 454 | 9120 | 0.21% | 0.043% |
| 14 | 3.836 | 3.813 | 3.921 | VV | 987 | 15276 | 0.36% | 0.072% |
| 15 | 3.936 | 3.921 | 3.948 | VV | 566 | 5668 | 0.13% | 0.027% |
| 16 | 3.963 | 3.948 | 3.998 | VV | 1094 | 11567 | 0.27% | 0.055% |
| 17 | 4.005 | 3.998 | 4.016 | VV | 127 | 740 | 0.02% | 0.004% |
| 18 | 4.030 | 4.016 | 4.046 | PV | 187 | 2107 | 0.05% | 0.010% |
| 19 | 4.110 | 4.046 | 4.162 | VV | 1020 | 21066 | 0.49% | 0.100% |
| 20 | 4.169 | 4.162 | 4.188 | VV | 174 | 2129 | 0.05% | 0.010% |
| 21 | 4.201 | 4.188 | 4.247 | VV | 163 | 4839 | 0.11% | 0.023% |
| 22 | 4.259 | 4.247 | 4.274 | VV | 222 | 2930 | 0.07% | 0.014% |
| 23 | 4.287 | 4.274 | 4.314 | VV | 212 | 3510 | 0.08% | 0.017% |
| 24 | 4.334 | 4.314 | 4.359 | VV | 858 | 11365 | 0.27% | 0.054% |
| 25 | 4.374 | 4.359 | 4.411 | VV | 361 | 6093 | 0.14% | 0.029% |
| 26 | 4.443 | 4.411 | 4.467 | VV | 495 | 9397 | 0.22% | 0.045% |
| 27 | 4.501 | 4.467 | 4.520 | VV | 1447 | 18700 | 0.44% | 0.089% |
| 28 | 4.556 | 4.520 | 4.570 | VV | 1295 | 16225 | 0.38% | 0.077% |
| 29 | 4.586 | 4.570 | 4.614 | VV | 1893 | 19727 | 0.46% | 0.094% |
| 30 | 4.624 | 4.614 | 4.634 | VV | 160 | 1971 | 0.05% | 0.009% |
| 31 | 4.706 | 4.634 | 4.760 | VV | 354 | 12901 | 0.30% | 0.061% |
| 32 | 4.778 | 4.760 | 4.871 | VV | 197 | 6293 | 0.15% | 0.030% |
| 33 | 4.886 | 4.871 | 4.902 | VV | 300 | 3567 | 0.08% | 0.017% |
| 34 | 4.964 | 4.902 | 4.998 | VV | 5022 | 65977 | 1.55% | 0.313% |
| 35 | 5.021 | 4.998 | 5.059 | VV | 1045 | 14257 | 0.33% | 0.068% |
| 36 | 5.071 | 5.059 | 5.108 | VV | 229 | 3672 | 0.09% | 0.017% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.122 | 5.108 | 5.137 | VV | 233 | 2565 | 0.06% | 0.012% |
| 38 | 5.155 | 5.137 | 5.171 | VV | 356 | 4455 | 0.10% | 0.021% |
| 39 | 5.189 | 5.171 | 5.220 | VV | 477 | 7877 | 0.18% | 0.037% |
| 40 | 5.257 | 5.220 | 5.305 | VV | 292 | 7761 | 0.18% | 0.037% |
| 41 | 5.334 | 5.305 | 5.345 | VV | 310 | 4300 | 0.10% | 0.020% |
| 42 | 5.367 | 5.345 | 5.383 | VV | 1114 | 12028 | 0.28% | 0.057% |
| 43 | 5.407 | 5.383 | 5.429 | VV | 2024 | 24306 | 0.57% | 0.115% |
| 44 | 5.464 | 5.429 | 5.485 | VV | 531 | 7469 | 0.18% | 0.035% |
| 45 | 5.549 | 5.485 | 5.580 | VV | 444 | 11743 | 0.28% | 0.056% |
| 46 | 5.614 | 5.580 | 5.631 | VV | 255 | 4263 | 0.10% | 0.020% |
| 47 | 5.658 | 5.631 | 5.685 | VV | 502 | 8350 | 0.20% | 0.040% |
| 48 | 5.711 | 5.685 | 5.762 | VV | 286 | 8090 | 0.19% | 0.038% |
| 49 | 5.771 | 5.762 | 5.802 | VV | 156 | 2501 | 0.06% | 0.012% |
| 50 | 5.818 | 5.802 | 5.851 | VV | 329 | 5197 | 0.12% | 0.025% |
| 51 | 5.868 | 5.851 | 5.885 | VV | 286 | 4373 | 0.10% | 0.021% |
| 52 | 5.916 | 5.885 | 5.943 | VV | 694 | 13368 | 0.31% | 0.063% |
| 53 | 5.964 | 5.943 | 5.985 | VV | 624 | 9335 | 0.22% | 0.044% |
| 54 | 6.006 | 5.985 | 6.037 | VV | 1181 | 14713 | 0.35% | 0.070% |
| 55 | 6.068 | 6.037 | 6.102 | VV | 709 | 11263 | 0.26% | 0.053% |
| 56 | 6.140 | 6.102 | 6.168 | VV | 453 | 10371 | 0.24% | 0.049% |
| 57 | 6.177 | 6.168 | 6.208 | VV | 130 | 3179 | 0.07% | 0.015% |
| 58 | 6.237 | 6.208 | 6.255 | VV | 258 | 4053 | 0.10% | 0.019% |
| 59 | 6.271 | 6.255 | 6.298 | VV | 208 | 2722 | 0.06% | 0.013% |
| 60 | 6.347 | 6.298 | 6.378 | VV | 6012 | 65928 | 1.55% | 0.313% |
| 61 | 6.390 | 6.378 | 6.408 | VV | 263 | 3902 | 0.09% | 0.019% |
| 62 | 6.431 | 6.408 | 6.451 | VV | 925 | 10300 | 0.24% | 0.049% |
| 63 | 6.465 | 6.451 | 6.478 | VV | 547 | 5665 | 0.13% | 0.027% |
| 64 | 6.496 | 6.478 | 6.515 | VV | 1557 | 16635 | 0.39% | 0.079% |
| 65 | 6.529 | 6.515 | 6.551 | VV | 556 | 7087 | 0.17% | 0.034% |
| 66 | 6.568 | 6.551 | 6.598 | VV | 810 | 9342 | 0.22% | 0.044% |
| 67 | 6.616 | 6.598 | 6.693 | VV | 164 | 7256 | 0.17% | 0.034% |
| 68 | 6.742 | 6.693 | 6.761 | VV | 264 | 5989 | 0.14% | 0.028% |
| 69 | 6.788 | 6.761 | 6.815 | VV | 855 | 11492 | 0.27% | 0.055% |
| 70 | 6.842 | 6.815 | 6.878 | VV | 1280 | 24125 | 0.57% | 0.114% |
| 71 | 6.901 | 6.878 | 6.933 | VV | 907 | 19612 | 0.46% | 0.093% |
| 72 | 6.967 | 6.933 | 6.990 | VV | 1514 | 22581 | 0.53% | 0.107% |
| 73 | 7.004 | 6.990 | 7.030 | VV | 247 | 3364 | 0.08% | 0.016% |
| 74 | 7.073 | 7.030 | 7.098 | VV | 384 | 7683 | 0.18% | 0.036% |
| 75 | 7.129 | 7.098 | 7.156 | PV | 3496 | 38735 | 0.91% | 0.184% |
| 76 | 7.189 | 7.156 | 7.198 | VV | 444 | 5631 | 0.13% | 0.027% |
| 77 | 7.206 | 7.198 | 7.219 | VV | 501 | 4184 | 0.10% | 0.020% |
| 78 | 7.236 | 7.219 | 7.248 | VV | 628 | 6854 | 0.16% | 0.033% |
| 79 | 7.268 | 7.248 | 7.292 | VV | 1495 | 20797 | 0.49% | 0.099% |
| 80 | 7.333 | 7.292 | 7.348 | VV | 744 | 16010 | 0.38% | 0.076% |
| 81 | 7.360 | 7.348 | 7.385 | VV | 857 | 11563 | 0.27% | 0.055% |
| 82 | 7.400 | 7.385 | 7.412 | VV | 292 | 4033 | 0.09% | 0.019% |
| 83 | 7.428 | 7.412 | 7.455 | VV | 375 | 6660 | 0.16% | 0.032% |
| 84 | 7.481 | 7.455 | 7.491 | VV | 305 | 4395 | 0.10% | 0.021% |
| 85 | 7.530 | 7.491 | 7.559 | VV | 1519 | 21302 | 0.50% | 0.101% |
| 86 | 7.615 | 7.559 | 7.648 | VV | 432 | 14824 | 0.35% | 0.070% |
| 87 | 7.674 | 7.648 | 7.687 | VV | 390 | 6882 | 0.16% | 0.033% |
| 88 | 7.697 | 7.687 | 7.713 | VV | 390 | 4811 | 0.11% | 0.023% |
| 89 | 7.724 | 7.713 | 7.735 | VV | 317 | 3064 | 0.07% | 0.015% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.744 | 7.735 | 7.761 | VV | 302 | 3292 | 0.08% | 0.016% |
| 91 | 7.793 | 7.761 | 7.813 | VV | 311 | 5332 | 0.13% | 0.025% |
| 92 | 7.834 | 7.813 | 7.861 | VV | 1112 | 12594 | 0.30% | 0.060% |
| 93 | 7.891 | 7.861 | 7.915 | VV | 1065 | 13494 | 0.32% | 0.064% |
| 94 | 7.925 | 7.915 | 7.941 | VV | 282 | 3493 | 0.08% | 0.017% |
| 95 | 7.959 | 7.941 | 7.978 | VV | 416 | 5584 | 0.13% | 0.026% |
| 96 | 7.992 | 7.978 | 8.020 | VV | 201 | 4276 | 0.10% | 0.020% |
| 97 | 8.046 | 8.020 | 8.074 | VV | 529 | 8625 | 0.20% | 0.041% |
| 98 | 8.085 | 8.074 | 8.101 | VV | 188 | 2811 | 0.07% | 0.013% |
| 99 | 8.139 | 8.101 | 8.208 | VV | 4477 | 68196 | 1.60% | 0.323% |
| 100 | 8.237 | 8.208 | 8.270 | VV | 847 | 21731 | 0.51% | 0.103% |
| 101 | 8.289 | 8.270 | 8.314 | VV | 687 | 11262 | 0.26% | 0.053% |
| 102 | 8.332 | 8.314 | 8.352 | VV | 556 | 8235 | 0.19% | 0.039% |
| 103 | 8.371 | 8.352 | 8.408 | VV | 794 | 9995 | 0.23% | 0.047% |
| 104 | 8.442 | 8.408 | 8.524 | PV | 9507 | 153542 | 3.61% | 0.728% |
| 105 | 8.557 | 8.524 | 8.575 | VV | 700 | 17594 | 0.41% | 0.083% |
| 106 | 8.598 | 8.575 | 8.612 | VV | 921 | 16303 | 0.38% | 0.077% |
| 107 | 8.628 | 8.612 | 8.638 | VV | 874 | 11237 | 0.26% | 0.053% |
| 108 | 8.649 | 8.638 | 8.659 | VV | 948 | 10210 | 0.24% | 0.048% |
| 109 | 8.677 | 8.659 | 8.725 | VV | 1383 | 33007 | 0.78% | 0.157% |
| 110 | 8.742 | 8.725 | 8.778 | VV | 860 | 15923 | 0.37% | 0.076% |
| 111 | 8.793 | 8.778 | 8.811 | VV | 652 | 8899 | 0.21% | 0.042% |
| 112 | 8.859 | 8.811 | 8.875 | VV | 1857 | 30167 | 0.71% | 0.143% |
| 113 | 8.895 | 8.875 | 8.940 | VV | 1380 | 36953 | 0.87% | 0.175% |
| 114 | 8.975 | 8.940 | 9.025 | VV | 3153 | 62764 | 1.47% | 0.298% |
| 115 | 9.046 | 9.025 | 9.066 | VV | 1020 | 13371 | 0.31% | 0.063% |
| 116 | 9.097 | 9.066 | 9.126 | VV | 998 | 23383 | 0.55% | 0.111% |
| 117 | 9.140 | 9.126 | 9.166 | VV | 708 | 12808 | 0.30% | 0.061% |
| 118 | 9.177 | 9.166 | 9.224 | VV | 471 | 10665 | 0.25% | 0.051% |
| 119 | 9.261 | 9.224 | 9.300 | VV | 755 | 20359 | 0.48% | 0.097% |
| 120 | 9.324 | 9.300 | 9.364 | VV | 1534 | 26431 | 0.62% | 0.125% |
| 121 | 9.397 | 9.364 | 9.438 | VV | 459 | 13394 | 0.31% | 0.064% |
| 122 | 9.465 | 9.438 | 9.501 | VV | 827 | 15075 | 0.35% | 0.071% |
| 123 | 9.516 | 9.501 | 9.542 | VV | 698 | 9429 | 0.22% | 0.045% |
| 124 | 9.570 | 9.542 | 9.631 | PV | 568 | 13422 | 0.32% | 0.064% |
| 125 | 9.656 | 9.631 | 9.711 | VV | 606 | 13084 | 0.31% | 0.062% |
| 126 | 9.738 | 9.711 | 9.788 | VV | 2305 | 33274 | 0.78% | 0.158% |
| 127 | 9.809 | 9.788 | 9.864 | VV | 487 | 14905 | 0.35% | 0.071% |
| 128 | 9.885 | 9.864 | 9.897 | VV | 342 | 4393 | 0.10% | 0.021% |
| 129 | 9.910 | 9.897 | 9.957 | VV | 348 | 4965 | 0.12% | 0.024% |
| 130 | 9.979 | 9.957 | 9.998 | VV | 152 | 2690 | 0.06% | 0.013% |
| 131 | 10.011 | 9.998 | 10.031 | VV | 295 | 4388 | 0.10% | 0.021% |
| 132 | 10.059 | 10.031 | 10.072 | VV | 512 | 8820 | 0.21% | 0.042% |
| 133 | 10.087 | 10.072 | 10.097 | VV | 345 | 4330 | 0.10% | 0.021% |
| 134 | 10.127 | 10.097 | 10.150 | VV | 1146 | 21223 | 0.50% | 0.101% |
| 135 | 10.168 | 10.150 | 10.189 | VV | 713 | 11995 | 0.28% | 0.057% |
| 136 | 10.211 | 10.189 | 10.237 | VV | 565 | 12155 | 0.29% | 0.058% |
| 137 | 10.249 | 10.237 | 10.255 | VV | 328 | 3148 | 0.07% | 0.015% |
| 138 | 10.287 | 10.255 | 10.313 | VV | 362 | 10584 | 0.25% | 0.050% |
| 139 | 10.339 | 10.313 | 10.351 | VV | 698 | 10426 | 0.24% | 0.049% |
| 140 | 10.370 | 10.351 | 10.386 | VV | 674 | 11787 | 0.28% | 0.056% |
| 141 | 10.413 | 10.386 | 10.435 | VV | 940 | 21005 | 0.49% | 0.100% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.473 | 10.435 | 10.511 | VV | 1394 | 41326 | 0.97% | 0.196% |
| 143 | 10.547 | 10.511 | 10.578 | VV | 2264 | 51656 | 1.21% | 0.245% |
| 144 | 10.602 | 10.578 | 10.659 | VV | 1814 | 45171 | 1.06% | 0.214% |
| 145 | 10.682 | 10.659 | 10.715 | VV | 541 | 14362 | 0.34% | 0.068% |
| 146 | 10.721 | 10.715 | 10.743 | VV | 349 | 5907 | 0.14% | 0.028% |
| 147 | 10.789 | 10.743 | 10.824 | VV | 623 | 20919 | 0.49% | 0.099% |
| 148 | 10.845 | 10.824 | 10.871 | VV | 726 | 14933 | 0.35% | 0.071% |
| 149 | 10.900 | 10.871 | 10.916 | VV | 1006 | 17640 | 0.41% | 0.084% |
| 150 | 10.927 | 10.916 | 10.945 | VV | 512 | 6660 | 0.16% | 0.032% |
| 151 | 10.973 | 10.945 | 11.038 | VV | 414 | 13331 | 0.31% | 0.063% |
| 152 | 11.065 | 11.038 | 11.078 | VV | 199 | 2920 | 0.07% | 0.014% |
| 153 | 11.106 | 11.078 | 11.147 | VV | 1410 | 21800 | 0.51% | 0.103% |
| 154 | 11.177 | 11.147 | 11.214 | VV | 2891 | 39376 | 0.92% | 0.187% |
| 155 | 11.226 | 11.214 | 11.238 | VV | 308 | 3777 | 0.09% | 0.018% |
| 156 | 11.268 | 11.238 | 11.305 | VV | 1491 | 26794 | 0.63% | 0.127% |
| 157 | 11.328 | 11.305 | 11.345 | VV | 330 | 3985 | 0.09% | 0.019% |
| 158 | 11.368 | 11.345 | 11.388 | PV | 240 | 3497 | 0.08% | 0.017% |
| 159 | 11.410 | 11.388 | 11.430 | VV | 341 | 4468 | 0.10% | 0.021% |
| 160 | 11.466 | 11.430 | 11.481 | VV | 498 | 8388 | 0.20% | 0.040% |
| 161 | 11.494 | 11.481 | 11.515 | VV | 378 | 5840 | 0.14% | 0.028% |
| 162 | 11.568 | 11.515 | 11.611 | VV | 851 | 27868 | 0.65% | 0.132% |
| 163 | 11.650 | 11.611 | 11.675 | VV | 597 | 16402 | 0.39% | 0.078% |
| 164 | 11.686 | 11.675 | 11.715 | VV | 231 | 3643 | 0.09% | 0.017% |
| 165 | 11.773 | 11.715 | 11.787 | VV | 373 | 11725 | 0.28% | 0.056% |
| 166 | 11.839 | 11.787 | 11.878 | VV | 1483 | 43822 | 1.03% | 0.208% |
| 167 | 11.890 | 11.878 | 11.908 | VV | 426 | 6759 | 0.16% | 0.032% |
| 168 | 11.940 | 11.908 | 11.959 | VV | 538 | 11752 | 0.28% | 0.056% |
| 169 | 11.979 | 11.959 | 12.028 | VV | 623 | 17540 | 0.41% | 0.083% |
| 170 | 12.064 | 12.028 | 12.105 | VV | 1296 | 37199 | 0.87% | 0.176% |
| 171 | 12.130 | 12.105 | 12.192 | VV | 581 | 19846 | 0.47% | 0.094% |
| 172 | 12.254 | 12.192 | 12.272 | VV | 676 | 18953 | 0.45% | 0.090% |
| 173 | 12.346 | 12.272 | 12.381 | VV | 1794 | 46151 | 1.08% | 0.219% |
| 174 | 12.422 | 12.381 | 12.447 | VV | 1439 | 21840 | 0.51% | 0.104% |
| 175 | 12.484 | 12.447 | 12.511 | VV | 3409 | 43210 | 1.01% | 0.205% |
| 176 | 12.521 | 12.511 | 12.564 | VV | 362 | 7862 | 0.18% | 0.037% |
| 177 | 12.604 | 12.564 | 12.615 | VV | 455 | 9269 | 0.22% | 0.044% |
| 178 | 12.625 | 12.615 | 12.665 | VV | 483 | 6564 | 0.15% | 0.031% |
| 179 | 12.685 | 12.665 | 12.711 | PV | 82 | 1084 | 0.03% | 0.005% |
| 180 | 12.758 | 12.711 | 12.796 | PV | 381 | 12262 | 0.29% | 0.058% |
| 181 | 12.848 | 12.796 | 12.864 | VV | 398 | 9923 | 0.23% | 0.047% |
| 182 | 12.930 | 12.864 | 13.073 | VV | 340154 | 4258230 | 100.00% | 20.196% |
| 183 | 13.097 | 13.073 | 13.129 | VV | 1530 | 32339 | 0.76% | 0.153% |
| 184 | 13.148 | 13.129 | 13.188 | VV | 836 | 22306 | 0.52% | 0.106% |
| 185 | 13.211 | 13.188 | 13.236 | VV | 494 | 10865 | 0.26% | 0.052% |
| 186 | 13.249 | 13.236 | 13.268 | VV | 468 | 6704 | 0.16% | 0.032% |
| 187 | 13.295 | 13.268 | 13.306 | VV | 867 | 14027 | 0.33% | 0.067% |
| 188 | 13.312 | 13.306 | 13.337 | VV | 845 | 11488 | 0.27% | 0.054% |
| 189 | 13.372 | 13.337 | 13.411 | VV | 828 | 27475 | 0.65% | 0.130% |
| 190 | 13.448 | 13.411 | 13.465 | VV | 509 | 12223 | 0.29% | 0.058% |
| 191 | 13.529 | 13.465 | 13.570 | VV | 712 | 33984 | 0.80% | 0.161% |
| 192 | 13.627 | 13.570 | 13.654 | VV | 1377 | 32849 | 0.77% | 0.156% |
| 193 | 13.680 | 13.654 | 13.718 | VV | 3289 | 47000 | 1.10% | 0.223% |
| 194 | 13.742 | 13.718 | 13.755 | VV | 326 | 4887 | 0.11% | 0.023% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.778 | 13.755 | 13.788 | VV | 360 | 4190 | 0.10% | 0.020% |
| 196 | 13.828 | 13.788 | 13.848 | VV | 251 | 5699 | 0.13% | 0.027% |
| 197 | 13.862 | 13.848 | 13.870 | VV | 164 | 1391 | 0.03% | 0.007% |
| 198 | 13.915 | 13.870 | 13.945 | VV | 704 | 18514 | 0.43% | 0.088% |
| 199 | 13.980 | 13.945 | 14.001 | VV | 434 | 11499 | 0.27% | 0.055% |
| 200 | 14.014 | 14.001 | 14.048 | VV | 520 | 9402 | 0.22% | 0.045% |
| 201 | 14.078 | 14.048 | 14.091 | VV | 624 | 11318 | 0.27% | 0.054% |
| 202 | 14.117 | 14.091 | 14.161 | VV | 2037 | 38804 | 0.91% | 0.184% |
| 203 | 14.178 | 14.161 | 14.218 | VV | 512 | 13901 | 0.33% | 0.066% |
| 204 | 14.241 | 14.218 | 14.277 | VV | 1609 | 26736 | 0.63% | 0.127% |
| 205 | 14.318 | 14.277 | 14.351 | VV | 793 | 25637 | 0.60% | 0.122% |
| 206 | 14.379 | 14.351 | 14.425 | VV | 937 | 30343 | 0.71% | 0.144% |
| 207 | 14.431 | 14.425 | 14.463 | VV | 602 | 10516 | 0.25% | 0.050% |
| 208 | 14.495 | 14.463 | 14.515 | VV | 791 | 18548 | 0.44% | 0.088% |
| 209 | 14.527 | 14.515 | 14.539 | VV | 626 | 7892 | 0.19% | 0.037% |
| 210 | 14.566 | 14.539 | 14.606 | VV | 958 | 27576 | 0.65% | 0.131% |
| 211 | 14.627 | 14.606 | 14.660 | VV | 682 | 17214 | 0.40% | 0.082% |
| 212 | 14.673 | 14.660 | 14.697 | VV | 666 | 10181 | 0.24% | 0.048% |
| 213 | 14.739 | 14.697 | 14.756 | VV | 1147 | 26036 | 0.61% | 0.123% |
| 214 | 14.783 | 14.756 | 14.812 | VV | 4082 | 64708 | 1.52% | 0.307% |
| 215 | 14.829 | 14.812 | 14.871 | VV | 774 | 20690 | 0.49% | 0.098% |
| 216 | 14.885 | 14.871 | 14.897 | VV | 434 | 6092 | 0.14% | 0.029% |
| 217 | 14.916 | 14.897 | 14.939 | VV | 424 | 9083 | 0.21% | 0.043% |
| 218 | 14.978 | 14.939 | 15.002 | VV | 538 | 13262 | 0.31% | 0.063% |
| 219 | 15.025 | 15.002 | 15.063 | VV | 396 | 11564 | 0.27% | 0.055% |
| 220 | 15.097 | 15.063 | 15.151 | VV | 329 | 13945 | 0.33% | 0.066% |
| 221 | 15.202 | 15.151 | 15.242 | VV | 700 | 19921 | 0.47% | 0.094% |
| 222 | 15.256 | 15.242 | 15.271 | VV | 393 | 5189 | 0.12% | 0.025% |
| 223 | 15.302 | 15.271 | 15.332 | VV | 2905 | 45314 | 1.06% | 0.215% |
| 224 | 15.343 | 15.332 | 15.348 | VV | 571 | 4915 | 0.12% | 0.023% |
| 225 | 15.354 | 15.348 | 15.395 | VV | 478 | 9946 | 0.23% | 0.047% |
| 226 | 15.422 | 15.395 | 15.471 | VV | 368 | 14394 | 0.34% | 0.068% |
| 227 | 15.484 | 15.471 | 15.497 | VV | 509 | 5936 | 0.14% | 0.028% |
| 228 | 15.517 | 15.497 | 15.565 | VV | 598 | 15400 | 0.36% | 0.073% |
| 229 | 15.620 | 15.565 | 15.640 | VV | 846 | 26394 | 0.62% | 0.125% |
| 230 | 15.663 | 15.640 | 15.695 | VV | 759 | 18460 | 0.43% | 0.088% |
| 231 | 15.703 | 15.695 | 15.728 | VV | 536 | 7318 | 0.17% | 0.035% |
| 232 | 15.762 | 15.728 | 15.776 | VV | 936 | 17995 | 0.42% | 0.085% |
| 233 | 15.802 | 15.776 | 15.832 | VV | 4187 | 69333 | 1.63% | 0.329% |
| 234 | 15.842 | 15.832 | 15.894 | VV | 858 | 20710 | 0.49% | 0.098% |
| 235 | 15.944 | 15.894 | 15.961 | VV | 534 | 15092 | 0.35% | 0.072% |
| 236 | 15.986 | 15.961 | 16.035 | VV | 1037 | 29051 | 0.68% | 0.138% |
| 237 | 16.048 | 16.035 | 16.067 | VV | 460 | 7220 | 0.17% | 0.034% |
| 238 | 16.114 | 16.067 | 16.139 | VV | 913 | 26937 | 0.63% | 0.128% |
| 239 | 16.162 | 16.139 | 16.215 | VV | 724 | 20724 | 0.49% | 0.098% |
| 240 | 16.251 | 16.215 | 16.260 | VV | 571 | 11460 | 0.27% | 0.054% |
| 241 | 16.284 | 16.260 | 16.313 | VV | 3584 | 54807 | 1.29% | 0.260% |
| 242 | 16.325 | 16.313 | 16.358 | VV | 722 | 14874 | 0.35% | 0.071% |
| 243 | 16.372 | 16.358 | 16.383 | VV | 611 | 7959 | 0.19% | 0.038% |
| 244 | 16.436 | 16.383 | 16.481 | VV | 990 | 45029 | 1.06% | 0.214% |
| 245 | 16.510 | 16.481 | 16.561 | VV | 1070 | 39263 | 0.92% | 0.186% |
| 246 | 16.593 | 16.561 | 16.688 | VV | 1071 | 62211 | 1.46% | 0.295% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 16.716 | 16.688 | 16.725 | VV | 1501 | 25309 | 0.59% | 0.120% |
| 248 | 16.750 | 16.725 | 16.795 | VV | 4780 | 98610 | 2.32% | 0.468% |
| 249 | 16.802 | 16.795 | 16.821 | VV | 923 | 13363 | 0.31% | 0.063% |
| 250 | 16.868 | 16.821 | 16.889 | VV | 1003 | 33416 | 0.78% | 0.158% |
| 251 | 16.939 | 16.889 | 16.955 | VV | 1147 | 35630 | 0.84% | 0.169% |
| 252 | 16.983 | 16.955 | 17.020 | VV | 1780 | 47225 | 1.11% | 0.224% |
| 253 | 17.042 | 17.020 | 17.065 | VV | 1332 | 31569 | 0.74% | 0.150% |
| 254 | 17.077 | 17.065 | 17.107 | VV | 1381 | 31355 | 0.74% | 0.149% |
| 255 | 17.146 | 17.107 | 17.170 | VV | 1514 | 50619 | 1.19% | 0.240% |
| 256 | 17.201 | 17.170 | 17.244 | VV | 6255 | 123386 | 2.90% | 0.585% |
| 257 | 17.261 | 17.244 | 17.274 | VV | 1258 | 21484 | 0.50% | 0.102% |
| 258 | 17.304 | 17.274 | 17.341 | VV | 1984 | 66371 | 1.56% | 0.315% |
| 259 | 17.363 | 17.341 | 17.371 | VV | 1692 | 28496 | 0.67% | 0.135% |
| 260 | 17.392 | 17.371 | 17.415 | VV | 1912 | 45590 | 1.07% | 0.216% |
| 261 | 17.424 | 17.415 | 17.446 | VV | 1776 | 29891 | 0.70% | 0.142% |
| 262 | 17.482 | 17.446 | 17.503 | VV | 2030 | 61077 | 1.43% | 0.290% |
| 263 | 17.528 | 17.503 | 17.561 | VV | 2117 | 64022 | 1.50% | 0.304% |
| 264 | 17.573 | 17.561 | 17.588 | VV | 1562 | 23959 | 0.56% | 0.114% |
| 265 | 17.633 | 17.588 | 17.728 | VV | 5597 | 172597 | 4.05% | 0.819% |
| 266 | 17.770 | 17.728 | 17.861 | VV | 2822 | 121891 | 2.86% | 0.578% |
| 267 | 17.879 | 17.861 | 17.888 | VV | 848 | 12584 | 0.30% | 0.060% |
| 268 | 17.913 | 17.888 | 17.951 | VV | 1402 | 44744 | 1.05% | 0.212% |
| 269 | 17.970 | 17.951 | 17.994 | VV | 1424 | 29565 | 0.69% | 0.140% |
| 270 | 18.014 | 17.994 | 18.031 | VV | 1157 | 22506 | 0.53% | 0.107% |
| 271 | 18.057 | 18.031 | 18.095 | VV | 5279 | 98807 | 2.32% | 0.469% |
| 272 | 18.136 | 18.095 | 18.190 | VV | 2513 | 70911 | 1.67% | 0.336% |
| 273 | 18.203 | 18.190 | 18.229 | VV | 1003 | 17687 | 0.42% | 0.084% |
| 274 | 18.318 | 18.229 | 18.404 | VV | 1349 | 107071 | 2.51% | 0.508% |
| 275 | 18.468 | 18.404 | 18.514 | VV | 4903 | 144233 | 3.39% | 0.684% |
| 276 | 18.558 | 18.514 | 18.579 | VV | 2076 | 65197 | 1.53% | 0.309% |
| 277 | 18.608 | 18.579 | 18.662 | VV | 1830 | 78435 | 1.84% | 0.372% |
| 278 | 18.669 | 18.662 | 18.701 | VV | 1440 | 32678 | 0.77% | 0.155% |
| 279 | 18.729 | 18.701 | 18.739 | VV | 1581 | 33982 | 0.80% | 0.161% |
| 280 | 18.768 | 18.739 | 18.821 | VV | 1819 | 71305 | 1.67% | 0.338% |
| 281 | 18.863 | 18.821 | 18.925 | VV | 4428 | 139519 | 3.28% | 0.662% |
| 282 | 18.956 | 18.925 | 18.978 | VV | 2040 | 55378 | 1.30% | 0.263% |
| 283 | 19.038 | 18.978 | 19.105 | VV | 2636 | 148797 | 3.49% | 0.706% |
| 284 | 19.133 | 19.105 | 19.155 | VV | 2054 | 54594 | 1.28% | 0.259% |
| 285 | 19.168 | 19.155 | 19.179 | VV | 1888 | 26855 | 0.63% | 0.127% |
| 286 | 19.194 | 19.179 | 19.206 | VV | 1977 | 30495 | 0.72% | 0.145% |
| 287 | 19.249 | 19.206 | 19.319 | VV | 5258 | 194286 | 4.56% | 0.921% |
| 288 | 19.369 | 19.319 | 19.405 | VV | 2559 | 120447 | 2.83% | 0.571% |
| 289 | 19.412 | 19.405 | 19.417 | VV | 2565 | 18654 | 0.44% | 0.088% |
| 290 | 19.513 | 19.417 | 19.522 | VV | 3867 | 205292 | 4.82% | 0.974% |
| 291 | 19.552 | 19.522 | 19.597 | VV | 4681 | 184977 | 4.34% | 0.877% |
| 292 | 19.625 | 19.597 | 19.648 | VV | 5545 | 144219 | 3.39% | 0.684% |
| 293 | 19.814 | 19.648 | 19.878 | VV | 6569 | 807067 | 18.95% | 3.828% |
| 294 | 19.886 | 19.878 | 19.939 | VV | 6297 | 209182 | 4.91% | 0.992% |
| 295 | 19.990 | 19.939 | 20.014 | VV | 7935 | 280158 | 6.58% | 1.329% |
| 296 | 20.044 | 20.014 | 20.069 | VV | 8842 | 261482 | 6.14% | 1.240% |
| 297 | 20.134 | 20.069 | 20.231 | VV | 10302 | 780380 | 18.33% | 3.701% |
| 298 | 20.261 | 20.231 | 20.288 | VV | 6866 | 221079 | 5.19% | 1.049% |
| 299 | 20.340 | 20.288 | 20.368 | VV | 7844 | 340215 | 7.99% | 1.614% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 20.379 | 20.368 | 20.401 | VV | 6806 | 132936 | 3.12% | 0.630% |
| 301 | 20.515 | 20.401 | 20.598 | VV | 8650 | 861028 | 20.22% | 4.084% |
| 302 | 20.631 | 20.598 | 20.645 | VV | 6662 | 184192 | 4.33% | 0.874% |
| 303 | 20.711 | 20.645 | 20.801 | VV | 8404 | 674016 | 15.83% | 3.197% |
| 304 | 20.813 | 20.801 | 20.845 | VV | 6924 | 177422 | 4.17% | 0.841% |
| 305 | 20.872 | 20.845 | 20.933 | VV | 7011 | 361792 | 8.50% | 1.716% |
| 306 | 20.945 | 20.933 | 20.978 | VV | 6540 | 173441 | 4.07% | 0.823% |
| 307 | 21.041 | 20.978 | 21.098 | VV | 7551 | 487210 | 11.44% | 2.311% |
| 308 | 21.124 | 21.098 | 21.198 | VV | 6895 | 383208 | 9.00% | 1.818% |
| 309 | 21.250 | 21.198 | 21.276 | VV | 6154 | 278672 | 6.54% | 1.322% |
| 310 | 21.325 | 21.276 | 21.335 | VV | 6172 | 216128 | 5.08% | 1.025% |
| 311 | 21.343 | 21.335 | 21.364 | VV | 6160 | 102630 | 2.41% | 0.487% |
| 312 | 21.371 | 21.364 | 21.379 | VV | 6003 | 53518 | 1.26% | 0.254% |
| 313 | 21.422 | 21.379 | 21.433 | VV | 6206 | 197147 | 4.63% | 0.935% |
| 314 | 21.519 | 21.433 | 21.633 | VV | 8823 | 951927 | 22.35% | 4.515% |
| 315 | 21.650 | 21.633 | 21.729 | VV | 7123 | 365659 | 8.59% | 1.734% |
| 316 | 21.749 | 21.729 | 21.773 | VV | 5683 | 146663 | 3.44% | 0.696% |
| 317 | 21.786 | 21.773 | 21.871 | VV | 5578 | 311423 | 7.31% | 1.477% |
| 318 | 21.951 | 21.871 | 21.961 | VV | 5231 | 275432 | 6.47% | 1.306% |
| 319 | 21.972 | 21.961 | 21.995 | VV | 5198 | 103695 | 2.44% | 0.492% |
| 320 | 22.066 | 21.995 | 22.083 | VV | 5534 | 282260 | 6.63% | 1.339% |
| 321 | 22.095 | 22.083 | 22.101 | VBA | 5426 | 71964 | 1.69% | 0.341% |

Sum of corrected areas: 21084235

Aliphatic EPH 111424.M Tue Nov 19 10:54:13 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.8 |
| Sample Wt/Vol: | 30.09 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048773.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.48 | J | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.49 | J | 0.98 | 1.70 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.19 | J | 2.04 | 2.72 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 49.0 | | 40 - 140 | 98% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 49.3 | | 40 - 140 | 99% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 22.0 | | 40 - 140 | 44% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-04 | Acq On: | 19 Nov 2024 02:45 |
| Client Sample ID: | PH2-BOT-003 | Operator: | YP/AJ |
| Data file: | FD048773.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 74 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 817925 | 4.26 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 1348810 | 7.008 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 4069702 | 21.903 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 5077518 | 32.293 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 11313955 | 65.464 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.364 | 7.364 | 8633724 | 49.04 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.214 | 8.214 | 5678166 | 49.3 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.248 | 11.248 | 4231467 | 22 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048773.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 02:45
Operator : YP/AJ
Sample : P4860-04
Misc :
ALS Vial : 74 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-003

Integration File: sample.E
Quant Time: Nov 19 05:57:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.364 | 8633724 | 49.039 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 98.08% |
| 6) S 2-Flurobiphenyl (SURR) | 8.214 | 5678166 | 49.302 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = | 98.60% |
| 11) S ortho-Terphenyl (SURR) | 11.248 | 4231467 | 22.000 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 44.00% |
| **Target Compounds** | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

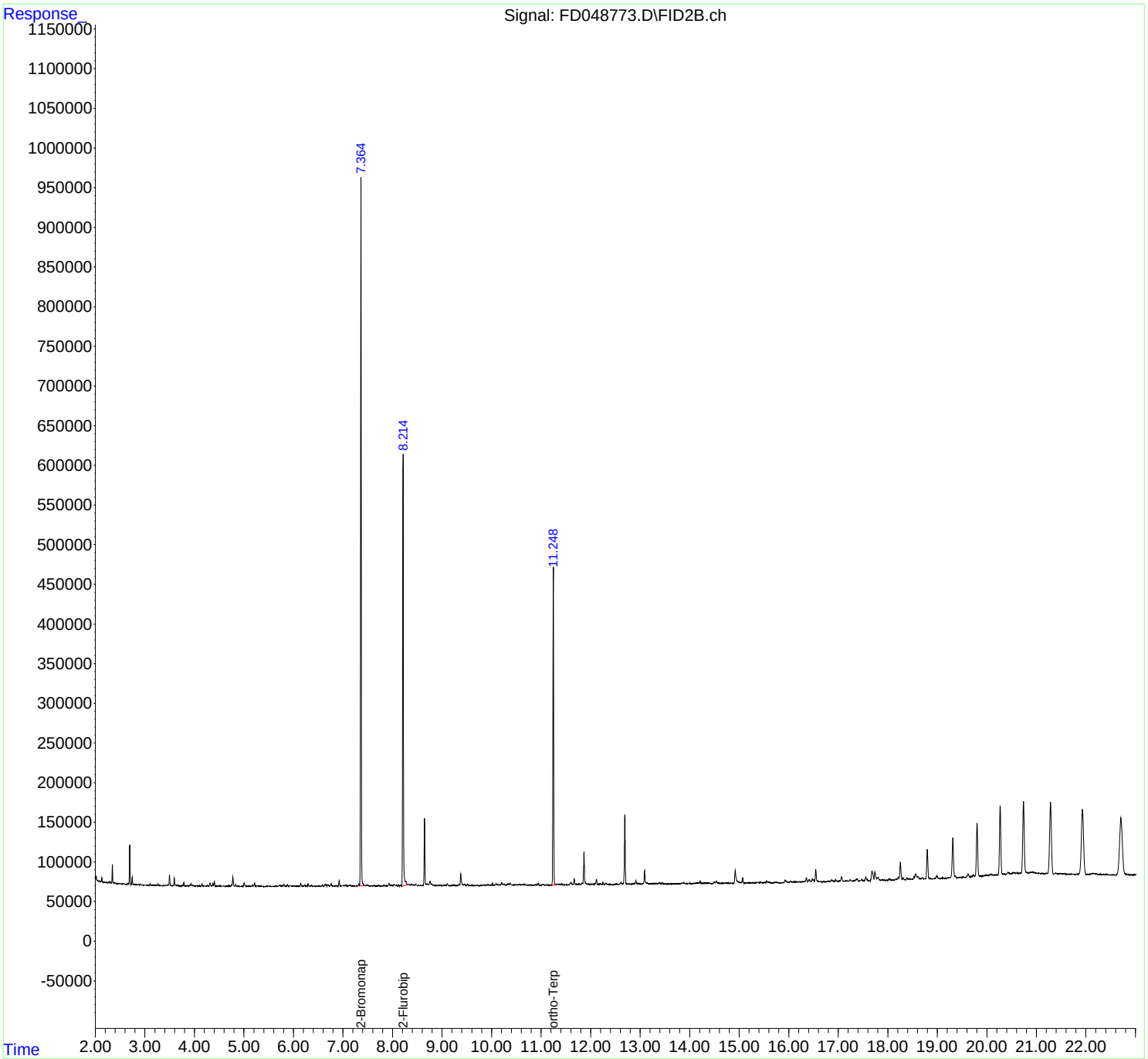
Quantitation Report (QT Reviewed)

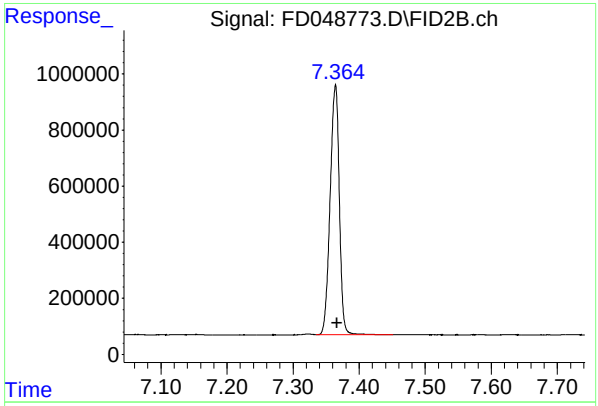
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048773.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 02:45
Operator : YP/AJ
Sample : P4860-04
Misc :
ALS Vial : 74 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-003

Integration File: sample.E
Quant Time: Nov 19 05:57:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

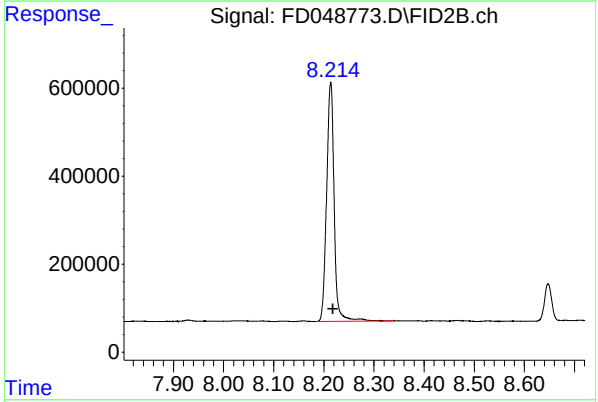





#4 2-Bromonaphthalene (SURR)

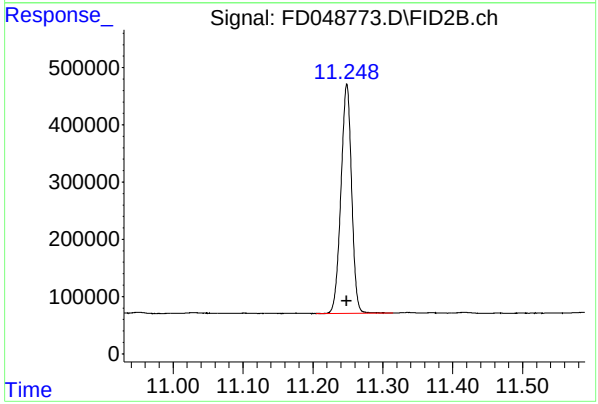
R.T.: 7.364 min
Delta R.T.: -0.003 min
Response: 8633724
Conc: 49.04 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-003




#6 2-Flurobiphenyl (SURR)

R.T.: 8.214 min
Delta R.T.: -0.005 min
Response: 5678166
Conc: 49.30 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.248 min
Delta R.T.: 0.000 min
Response: 4231467
Conc: 22.00 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048773.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 02:45
Sample : P4860-04
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.104 | 4.062 | 4.123 | BV | 375 | 2564 | 0.03% | 0.009% |
| 2 | 4.154 | 4.123 | 4.178 | PV | 3154 | 31520 | 0.36% | 0.105% |
| 3 | 4.189 | 4.178 | 4.207 | VV | 502 | 4284 | 0.05% | 0.014% |
| 4 | 4.224 | 4.207 | 4.229 | VV | 289 | 2459 | 0.03% | 0.008% |
| 5 | 4.263 | 4.229 | 4.283 | VV | 1282 | 17106 | 0.20% | 0.057% |
| 6 | 4.317 | 4.283 | 4.338 | PV | 4262 | 55805 | 0.64% | 0.187% |
| 7 | 4.348 | 4.338 | 4.357 | VV | 701 | 6830 | 0.08% | 0.023% |
| 8 | 4.373 | 4.357 | 4.387 | VV | 4006 | 39523 | 0.45% | 0.132% |
| 9 | 4.403 | 4.387 | 4.425 | VV | 5962 | 59324 | 0.68% | 0.198% |
| 10 | 4.431 | 4.425 | 4.459 | VV | 518 | 6966 | 0.08% | 0.023% |
| 11 | 4.473 | 4.459 | 4.488 | VV | 910 | 11052 | 0.13% | 0.037% |
| 12 | 4.517 | 4.488 | 4.548 | VV | 1077 | 20434 | 0.24% | 0.068% |
| 13 | 4.562 | 4.548 | 4.575 | VV | 436 | 6382 | 0.07% | 0.021% |
| 14 | 4.591 | 4.575 | 4.622 | VV | 1087 | 13319 | 0.15% | 0.045% |
| 15 | 4.646 | 4.622 | 4.668 | PV | 289 | 6421 | 0.07% | 0.021% |
| 16 | 4.697 | 4.668 | 4.726 | VV | 990 | 18219 | 0.21% | 0.061% |
| 17 | 4.754 | 4.726 | 4.760 | VV | 2678 | 26148 | 0.30% | 0.087% |
| 18 | 4.776 | 4.760 | 4.809 | VV | 12256 | 139273 | 1.60% | 0.466% |
| 19 | 4.832 | 4.809 | 4.867 | VV | 2617 | 31026 | 0.36% | 0.104% |
| 20 | 4.883 | 4.867 | 4.894 | VV | 494 | 4600 | 0.05% | 0.015% |
| 21 | 4.908 | 4.901 | 4.914 | VV | 353 | 1715 | 0.02% | 0.006% |
| 22 | 4.920 | 4.914 | 4.925 | VV | 251 | 1280 | 0.01% | 0.004% |
| 23 | 4.939 | 4.925 | 4.952 | VV | 386 | 4279 | 0.05% | 0.014% |
| 24 | 4.964 | 4.952 | 4.985 | VV | 860 | 9563 | 0.11% | 0.032% |
| 25 | 5.002 | 4.985 | 5.064 | VV | 4414 | 64287 | 0.74% | 0.215% |
| 26 | 5.074 | 5.064 | 5.085 | VV | 529 | 5036 | 0.06% | 0.017% |
| 27 | 5.101 | 5.085 | 5.107 | VV | 415 | 4323 | 0.05% | 0.014% |
| 28 | 5.109 | 5.107 | 5.129 | VV | 426 | 4358 | 0.05% | 0.015% |
| 29 | 5.141 | 5.129 | 5.159 | VV | 738 | 7453 | 0.09% | 0.025% |
| 30 | 5.176 | 5.159 | 5.194 | VV | 1754 | 18597 | 0.21% | 0.062% |
| 31 | 5.216 | 5.194 | 5.242 | VV | 4505 | 49361 | 0.57% | 0.165% |
| 32 | 5.272 | 5.242 | 5.299 | VV | 1344 | 20858 | 0.24% | 0.070% |
| 33 | 5.311 | 5.299 | 5.323 | VV | 437 | 5316 | 0.06% | 0.018% |
| 34 | 5.338 | 5.323 | 5.345 | VV | 767 | 7414 | 0.09% | 0.025% |
| 35 | 5.352 | 5.345 | 5.401 | VV | 687 | 11152 | 0.13% | 0.037% |
| 36 | 5.422 | 5.401 | 5.439 | PV | 283 | 2847 | 0.03% | 0.010% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.464 | 5.439 | 5.494 | VV | 647 | 9442 | 0.11% | 0.032% |
| 38 | 5.502 | 5.494 | 5.514 | VV | 369 | 3099 | 0.04% | 0.010% |
| 39 | 5.522 | 5.514 | 5.531 | VV | 436 | 3439 | 0.04% | 0.011% |
| 40 | 5.542 | 5.531 | 5.550 | VV | 394 | 2691 | 0.03% | 0.009% |
| 41 | 5.555 | 5.550 | 5.598 | VV | 238 | 3781 | 0.04% | 0.013% |
| 42 | 5.634 | 5.598 | 5.647 | PV | 640 | 9227 | 0.11% | 0.031% |
| 43 | 5.663 | 5.647 | 5.669 | VV | 630 | 5715 | 0.07% | 0.019% |
| 44 | 5.673 | 5.669 | 5.682 | VV | 401 | 2019 | 0.02% | 0.007% |
| 45 | 5.721 | 5.682 | 5.754 | VV | 1699 | 37697 | 0.43% | 0.126% |
| 46 | 5.768 | 5.754 | 5.784 | VV | 1402 | 16629 | 0.19% | 0.056% |
| 47 | 5.789 | 5.784 | 5.794 | VV | 580 | 3092 | 0.04% | 0.010% |
| 48 | 5.809 | 5.794 | 5.844 | VV | 3013 | 35797 | 0.41% | 0.120% |
| 49 | 5.847 | 5.844 | 5.855 | VV | 356 | 2350 | 0.03% | 0.008% |
| 50 | 5.878 | 5.855 | 5.910 | VV | 1654 | 28167 | 0.32% | 0.094% |
| 51 | 5.938 | 5.910 | 5.968 | VV | 1086 | 23314 | 0.27% | 0.078% |
| 52 | 5.984 | 5.968 | 5.990 | VV | 416 | 4223 | 0.05% | 0.014% |
| 53 | 6.006 | 5.990 | 6.028 | VV | 809 | 13388 | 0.15% | 0.045% |
| 54 | 6.033 | 6.028 | 6.069 | VV | 548 | 9666 | 0.11% | 0.032% |
| 55 | 6.074 | 6.069 | 6.079 | VV | 321 | 1519 | 0.02% | 0.005% |
| 56 | 6.084 | 6.079 | 6.089 | VV | 430 | 1794 | 0.02% | 0.006% |
| 57 | 6.095 | 6.089 | 6.109 | VV | 365 | 3946 | 0.05% | 0.013% |
| 58 | 6.113 | 6.109 | 6.127 | VV | 409 | 3769 | 0.04% | 0.013% |
| 59 | 6.148 | 6.127 | 6.175 | VV | 4218 | 48632 | 0.56% | 0.163% |
| 60 | 6.190 | 6.175 | 6.212 | VV | 808 | 12101 | 0.14% | 0.040% |
| 61 | 6.230 | 6.212 | 6.250 | VV | 2093 | 24462 | 0.28% | 0.082% |
| 62 | 6.265 | 6.250 | 6.278 | VV | 1353 | 14682 | 0.17% | 0.049% |
| 63 | 6.296 | 6.278 | 6.317 | VV | 3433 | 39849 | 0.46% | 0.133% |
| 64 | 6.328 | 6.317 | 6.349 | VV | 1189 | 14581 | 0.17% | 0.049% |
| 65 | 6.368 | 6.349 | 6.390 | VV | 1990 | 21593 | 0.25% | 0.072% |
| 66 | 6.415 | 6.390 | 6.428 | VV | 579 | 8683 | 0.10% | 0.029% |
| 67 | 6.430 | 6.428 | 6.440 | VV | 436 | 2655 | 0.03% | 0.009% |
| 68 | 6.469 | 6.440 | 6.493 | VV | 537 | 12708 | 0.15% | 0.042% |
| 69 | 6.514 | 6.493 | 6.544 | VV | 558 | 11809 | 0.14% | 0.039% |
| 70 | 6.548 | 6.544 | 6.557 | VV | 269 | 1381 | 0.02% | 0.005% |
| 71 | 6.586 | 6.557 | 6.617 | PV | 2110 | 27397 | 0.32% | 0.092% |
| 72 | 6.639 | 6.617 | 6.674 | VV | 2661 | 49998 | 0.58% | 0.167% |
| 73 | 6.687 | 6.674 | 6.694 | VV | 1894 | 18892 | 0.22% | 0.063% |
| 74 | 6.702 | 6.694 | 6.733 | VV | 2060 | 25440 | 0.29% | 0.085% |
| 75 | 6.764 | 6.733 | 6.794 | VV | 3595 | 50941 | 0.59% | 0.170% |
| 76 | 6.803 | 6.794 | 6.814 | VV | 581 | 5509 | 0.06% | 0.018% |
| 77 | 6.839 | 6.814 | 6.855 | VV | 614 | 9839 | 0.11% | 0.033% |
| 78 | 6.867 | 6.855 | 6.886 | VV | 948 | 10209 | 0.12% | 0.034% |
| 79 | 6.891 | 6.886 | 6.895 | VV | 413 | 1572 | 0.02% | 0.005% |
| 80 | 6.923 | 6.895 | 6.961 | VV | 7497 | 87411 | 1.01% | 0.292% |
| 81 | 6.964 | 6.961 | 6.967 | VV | 409 | 1297 | 0.01% | 0.004% |
| 82 | 6.986 | 6.967 | 6.995 | VV | 1199 | 15040 | 0.17% | 0.050% |
| 83 | 7.001 | 6.995 | 7.016 | VV | 947 | 8894 | 0.10% | 0.030% |
| 84 | 7.031 | 7.016 | 7.044 | VV | 1321 | 15581 | 0.18% | 0.052% |
| 85 | 7.063 | 7.044 | 7.085 | VV | 1752 | 26928 | 0.31% | 0.090% |
| 86 | 7.101 | 7.085 | 7.110 | VV | 853 | 9620 | 0.11% | 0.032% |
| 87 | 7.126 | 7.110 | 7.141 | VV | 1447 | 18705 | 0.22% | 0.063% |
| 88 | 7.154 | 7.141 | 7.184 | VV | 1819 | 22939 | 0.26% | 0.077% |
| 89 | 7.225 | 7.184 | 7.246 | VV | 588 | 13499 | 0.16% | 0.045% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.272 | 7.246 | 7.290 | VV | 596 | 10566 | 0.12% | 0.035% |
| 91 | 7.323 | 7.290 | 7.335 | VV | 3243 | 39821 | 0.46% | 0.133% |
| 92 | 7.364 | 7.335 | 7.457 | VV | 889215 | 8688565 | 100.00% | 29.041% |
| 93 | 7.486 | 7.457 | 7.535 | VV | 1511 | 45170 | 0.52% | 0.151% |
| 94 | 7.546 | 7.535 | 7.559 | VV | 518 | 6158 | 0.07% | 0.021% |
| 95 | 7.585 | 7.559 | 7.609 | VV | 796 | 14036 | 0.16% | 0.047% |
| 96 | 7.627 | 7.609 | 7.654 | VV | 1535 | 19228 | 0.22% | 0.064% |
| 97 | 7.685 | 7.654 | 7.696 | VV | 578 | 9201 | 0.11% | 0.031% |
| 98 | 7.719 | 7.696 | 7.773 | VV | 860 | 22059 | 0.25% | 0.074% |
| 99 | 7.829 | 7.773 | 7.860 | VV | 1048 | 28061 | 0.32% | 0.094% |
| 100 | 7.930 | 7.860 | 7.952 | VV | 3513 | 62744 | 0.72% | 0.210% |
| 101 | 7.961 | 7.952 | 8.000 | VV | 1312 | 26564 | 0.31% | 0.089% |
| 102 | 8.037 | 8.000 | 8.060 | VV | 1649 | 46216 | 0.53% | 0.154% |
| 103 | 8.077 | 8.060 | 8.102 | VV | 1481 | 21517 | 0.25% | 0.072% |
| 104 | 8.121 | 8.102 | 8.140 | VV | 1008 | 14400 | 0.17% | 0.048% |
| 105 | 8.159 | 8.140 | 8.184 | VV | 1562 | 17937 | 0.21% | 0.060% |
| 106 | 8.214 | 8.184 | 8.262 | PV | 544882 | 5618965 | 64.67% | 18.781% |
| 107 | 8.273 | 8.262 | 8.337 | VV | 5711 | 140135 | 1.61% | 0.468% |
| 108 | 8.349 | 8.337 | 8.366 | VV | 1952 | 30226 | 0.35% | 0.101% |
| 109 | 8.386 | 8.366 | 8.402 | VV | 1844 | 33991 | 0.39% | 0.114% |
| 110 | 8.415 | 8.402 | 8.432 | VV | 1935 | 27122 | 0.31% | 0.091% |
| 111 | 8.439 | 8.432 | 8.449 | VV | 1330 | 13073 | 0.15% | 0.044% |
| 112 | 8.467 | 8.449 | 8.507 | VV | 2080 | 49023 | 0.56% | 0.164% |
| 113 | 8.527 | 8.507 | 8.557 | VV | 1375 | 22558 | 0.26% | 0.075% |
| 114 | 8.577 | 8.557 | 8.602 | VV | 1194 | 20040 | 0.23% | 0.067% |
| 115 | 8.648 | 8.602 | 8.672 | VV | 85638 | 885741 | 10.19% | 2.961% |
| 116 | 8.681 | 8.672 | 8.695 | VV | 2665 | 33657 | 0.39% | 0.112% |
| 117 | 8.712 | 8.695 | 8.730 | VV | 2949 | 48751 | 0.56% | 0.163% |
| 118 | 8.759 | 8.730 | 8.819 | VV | 5991 | 144320 | 1.66% | 0.482% |
| 119 | 8.830 | 8.819 | 8.855 | VV | 1716 | 24064 | 0.28% | 0.080% |
| 120 | 8.879 | 8.855 | 8.910 | VV | 1298 | 25642 | 0.30% | 0.086% |
| 121 | 8.926 | 8.910 | 8.947 | VV | 799 | 13631 | 0.16% | 0.046% |
| 122 | 8.962 | 8.947 | 9.007 | VV | 887 | 18830 | 0.22% | 0.063% |
| 123 | 9.028 | 9.007 | 9.039 | VV | 1101 | 14525 | 0.17% | 0.049% |
| 124 | 9.045 | 9.039 | 9.082 | VV | 1047 | 16668 | 0.19% | 0.056% |
| 125 | 9.106 | 9.082 | 9.155 | VV | 2747 | 45594 | 0.52% | 0.152% |
| 126 | 9.181 | 9.155 | 9.190 | VV | 706 | 8715 | 0.10% | 0.029% |
| 127 | 9.209 | 9.190 | 9.224 | VV | 706 | 11344 | 0.13% | 0.038% |
| 128 | 9.248 | 9.224 | 9.289 | VV | 1186 | 24964 | 0.29% | 0.083% |
| 129 | 9.348 | 9.289 | 9.362 | VV | 2099 | 39095 | 0.45% | 0.131% |
| 130 | 9.379 | 9.362 | 9.430 | VV | 14868 | 221635 | 2.55% | 0.741% |
| 131 | 9.456 | 9.430 | 9.500 | VV | 2333 | 50997 | 0.59% | 0.170% |
| 132 | 9.519 | 9.500 | 9.565 | VV | 2173 | 34481 | 0.40% | 0.115% |
| 133 | 9.591 | 9.565 | 9.650 | VV | 801 | 25282 | 0.29% | 0.085% |
| 134 | 9.667 | 9.650 | 9.677 | VV | 584 | 6681 | 0.08% | 0.022% |
| 135 | 9.687 | 9.677 | 9.710 | VV | 710 | 8019 | 0.09% | 0.027% |
| 136 | 9.726 | 9.710 | 9.755 | VV | 424 | 5123 | 0.06% | 0.017% |
| 137 | 9.792 | 9.755 | 9.810 | PV | 683 | 13345 | 0.15% | 0.045% |
| 138 | 9.837 | 9.810 | 9.854 | VV | 1108 | 19907 | 0.23% | 0.067% |
| 139 | 9.862 | 9.854 | 9.874 | VV | 761 | 6721 | 0.08% | 0.022% |
| 140 | 9.909 | 9.874 | 9.929 | VV | 1162 | 25802 | 0.30% | 0.086% |
| 141 | 9.941 | 9.929 | 9.965 | VV | 1020 | 19656 | 0.23% | 0.066% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.991 | 9.965 | 10.000 | VV | 886 | 15430 | 0.18% | 0.052% |
| 143 | 10.021 | 10.000 | 10.046 | VV | 3374 | 42601 | 0.49% | 0.142% |
| 144 | 10.090 | 10.046 | 10.129 | VV | 2221 | 63012 | 0.73% | 0.211% |
| 145 | 10.141 | 10.129 | 10.166 | VV | 1286 | 25035 | 0.29% | 0.084% |
| 146 | 10.206 | 10.166 | 10.236 | VV | 4002 | 88890 | 1.02% | 0.297% |
| 147 | 10.248 | 10.236 | 10.289 | VV | 1869 | 40518 | 0.47% | 0.135% |
| 148 | 10.307 | 10.289 | 10.319 | VV | 1393 | 19058 | 0.22% | 0.064% |
| 149 | 10.334 | 10.319 | 10.353 | VV | 2660 | 36903 | 0.42% | 0.123% |
| 150 | 10.376 | 10.353 | 10.410 | VV | 3243 | 61237 | 0.70% | 0.205% |
| 151 | 10.425 | 10.410 | 10.450 | VV | 1068 | 18653 | 0.21% | 0.062% |
| 152 | 10.471 | 10.450 | 10.490 | VV | 1170 | 20404 | 0.23% | 0.068% |
| 153 | 10.510 | 10.490 | 10.522 | VV | 1063 | 16537 | 0.19% | 0.055% |
| 154 | 10.544 | 10.522 | 10.604 | VV | 1466 | 52501 | 0.60% | 0.175% |
| 155 | 10.616 | 10.604 | 10.625 | VV | 938 | 11010 | 0.13% | 0.037% |
| 156 | 10.643 | 10.625 | 10.657 | VV | 1767 | 25817 | 0.30% | 0.086% |
| 157 | 10.673 | 10.657 | 10.694 | VV | 1896 | 28696 | 0.33% | 0.096% |
| 158 | 10.703 | 10.694 | 10.721 | VV | 832 | 9873 | 0.11% | 0.033% |
| 159 | 10.752 | 10.721 | 10.779 | VV | 893 | 19072 | 0.22% | 0.064% |
| 160 | 10.805 | 10.779 | 10.847 | VV | 596 | 14550 | 0.17% | 0.049% |
| 161 | 10.883 | 10.847 | 10.907 | VV | 1194 | 20738 | 0.24% | 0.069% |
| 162 | 10.922 | 10.907 | 10.936 | VV | 1720 | 21240 | 0.24% | 0.071% |
| 163 | 10.951 | 10.936 | 10.984 | VV | 2206 | 29043 | 0.33% | 0.097% |
| 164 | 11.029 | 10.984 | 11.079 | VV | 1608 | 39988 | 0.46% | 0.134% |
| 165 | 11.102 | 11.079 | 11.129 | VV | 862 | 13637 | 0.16% | 0.046% |
| 166 | 11.142 | 11.129 | 11.157 | VV | 506 | 5509 | 0.06% | 0.018% |
| 167 | 11.177 | 11.157 | 11.213 | VV | 726 | 11567 | 0.13% | 0.039% |
| 168 | 11.248 | 11.213 | 11.317 | PV | 401779 | 4266758 | 49.11% | 14.261% |
| 169 | 11.337 | 11.317 | 11.355 | VV | 1745 | 30143 | 0.35% | 0.101% |
| 170 | 11.370 | 11.355 | 11.394 | VV | 1431 | 22458 | 0.26% | 0.075% |
| 171 | 11.417 | 11.394 | 11.442 | VV | 1939 | 30923 | 0.36% | 0.103% |
| 172 | 11.465 | 11.442 | 11.485 | VV | 695 | 12044 | 0.14% | 0.040% |
| 173 | 11.497 | 11.485 | 11.508 | VV | 669 | 7756 | 0.09% | 0.026% |
| 174 | 11.541 | 11.508 | 11.550 | VV | 734 | 15276 | 0.18% | 0.051% |
| 175 | 11.603 | 11.550 | 11.630 | VV | 3508 | 79818 | 0.92% | 0.267% |
| 176 | 11.670 | 11.630 | 11.692 | VV | 7773 | 106724 | 1.23% | 0.357% |
| 177 | 11.704 | 11.692 | 11.734 | VV | 1273 | 24782 | 0.29% | 0.083% |
| 178 | 11.751 | 11.734 | 11.759 | VV | 1269 | 15984 | 0.18% | 0.053% |
| 179 | 11.769 | 11.759 | 11.794 | VV | 1197 | 20154 | 0.23% | 0.067% |
| 180 | 11.831 | 11.794 | 11.844 | VV | 2495 | 48063 | 0.55% | 0.161% |
| 181 | 11.867 | 11.844 | 11.933 | VV | 42068 | 537275 | 6.18% | 1.796% |
| 182 | 11.944 | 11.933 | 11.990 | VV | 1233 | 32924 | 0.38% | 0.110% |
| 183 | 12.022 | 11.990 | 12.062 | VV | 1199 | 41369 | 0.48% | 0.138% |
| 184 | 12.120 | 12.062 | 12.144 | VV | 6947 | 124555 | 1.43% | 0.416% |
| 185 | 12.157 | 12.144 | 12.172 | VV | 1035 | 12989 | 0.15% | 0.043% |
| 186 | 12.193 | 12.172 | 12.215 | VV | 2107 | 29150 | 0.34% | 0.097% |
| 187 | 12.252 | 12.215 | 12.282 | VV | 3048 | 46613 | 0.54% | 0.156% |
| 188 | 12.312 | 12.282 | 12.360 | VV | 2443 | 49656 | 0.57% | 0.166% |
| 189 | 12.383 | 12.360 | 12.407 | VV | 870 | 13670 | 0.16% | 0.046% |
| 190 | 12.419 | 12.407 | 12.445 | VV | 326 | 3791 | 0.04% | 0.013% |
| 191 | 12.510 | 12.445 | 12.560 | PV | 856 | 29830 | 0.34% | 0.100% |
| 192 | 12.615 | 12.560 | 12.637 | VV | 3333 | 57230 | 0.66% | 0.191% |
| 193 | 12.691 | 12.637 | 12.724 | VV | 87580 | 1043583 | 12.01% | 3.488% |
| 194 | 12.736 | 12.724 | 12.774 | VV | 950 | 25064 | 0.29% | 0.084% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 12.781 | 12.774 | 12.802 | VV | 754 | 10700 | 0.12% | 0.036% |
| 196 | 12.825 | 12.802 | 12.835 | VV | 651 | 11149 | 0.13% | 0.037% |
| 197 | 12.857 | 12.835 | 12.870 | VV | 1068 | 15867 | 0.18% | 0.053% |
| 198 | 12.915 | 12.870 | 12.954 | VV | 4975 | 98424 | 1.13% | 0.329% |
| 199 | 12.974 | 12.954 | 13.035 | VV | 1078 | 38387 | 0.44% | 0.128% |
| 200 | 13.090 | 13.035 | 13.180 | VV | 16956 | 294355 | 3.39% | 0.984% |
| 201 | 13.193 | 13.180 | 13.227 | VV | 1038 | 22185 | 0.26% | 0.074% |
| 202 | 13.235 | 13.227 | 13.244 | VV | 655 | 6579 | 0.08% | 0.022% |
| 203 | 13.270 | 13.244 | 13.302 | VV | 1060 | 30702 | 0.35% | 0.103% |
| 204 | 13.318 | 13.302 | 13.341 | VV | 1366 | 22995 | 0.26% | 0.077% |
| 205 | 13.356 | 13.341 | 13.370 | VV | 957 | 14160 | 0.16% | 0.047% |
| 206 | 13.391 | 13.370 | 13.422 | VV | 1940 | 35098 | 0.40% | 0.117% |
| 207 | 13.444 | 13.422 | 13.491 | VV | 2550 | 42336 | 0.49% | 0.142% |
| 208 | 13.501 | 13.491 | 13.519 | VV | 466 | 6685 | 0.08% | 0.022% |
| 209 | 13.535 | 13.519 | 13.555 | VV | 403 | 5494 | 0.06% | 0.018% |
| 210 | 13.573 | 13.555 | 13.587 | PV | 317 | 3419 | 0.04% | 0.011% |
| 211 | 13.620 | 13.587 | 13.639 | VV | 394 | 8525 | 0.10% | 0.028% |
| 212 | 13.661 | 13.639 | 13.672 | VV | 484 | 7118 | 0.08% | 0.024% |
| 213 | 13.687 | 13.672 | 13.708 | VV | 544 | 8891 | 0.10% | 0.030% |
| 214 | 13.733 | 13.708 | 13.766 | VV | 452 | 11837 | 0.14% | 0.040% |
| 215 | 13.776 | 13.766 | 13.794 | VV | 435 | 5132 | 0.06% | 0.017% |
| 216 | 13.803 | 13.794 | 13.816 | VV | 479 | 4925 | 0.06% | 0.016% |
| 217 | 13.837 | 13.816 | 13.852 | VV | 810 | 13760 | 0.16% | 0.046% |
| 218 | 13.876 | 13.852 | 13.957 | VV | 2159 | 55822 | 0.64% | 0.187% |
| 219 | 14.002 | 13.957 | 14.030 | VV | 831 | 24052 | 0.28% | 0.080% |
| 220 | 14.035 | 14.030 | 14.057 | VV | 491 | 5719 | 0.07% | 0.019% |
| 221 | 14.085 | 14.057 | 14.119 | VV | 955 | 26575 | 0.31% | 0.089% |
| 222 | 14.169 | 14.119 | 14.190 | VV | 1289 | 41101 | 0.47% | 0.137% |
| 223 | 14.212 | 14.190 | 14.249 | VV | 3695 | 54778 | 0.63% | 0.183% |
| 224 | 14.256 | 14.249 | 14.277 | VV | 720 | 10620 | 0.12% | 0.035% |
| 225 | 14.302 | 14.277 | 14.330 | VV | 1019 | 23929 | 0.28% | 0.080% |
| 226 | 14.346 | 14.330 | 14.366 | VV | 955 | 14416 | 0.17% | 0.048% |
| 227 | 14.386 | 14.366 | 14.434 | VV | 1001 | 23132 | 0.27% | 0.077% |
| 228 | 14.500 | 14.434 | 14.520 | VV | 2446 | 49049 | 0.56% | 0.164% |
| 229 | 14.541 | 14.520 | 14.616 | VV | 3339 | 74474 | 0.86% | 0.249% |
| 230 | 14.637 | 14.616 | 14.665 | VV | 493 | 10062 | 0.12% | 0.034% |
| 231 | 14.715 | 14.665 | 14.764 | VV | 750 | 23320 | 0.27% | 0.078% |
| 232 | 14.777 | 14.764 | 14.815 | VV | 306 | 7051 | 0.08% | 0.024% |
| 233 | 14.843 | 14.815 | 14.852 | VV | 319 | 3966 | 0.05% | 0.013% |
| 234 | 14.918 | 14.852 | 15.010 | VV | 16464 | 353821 | 4.07% | 1.183% |
| 235 | 15.023 | 15.010 | 15.039 | VV | 1188 | 17694 | 0.20% | 0.059% |
| 236 | 15.070 | 15.039 | 15.098 | VV | 6994 | 101638 | 1.17% | 0.340% |
| 237 | 15.109 | 15.098 | 15.129 | VV | 653 | 9501 | 0.11% | 0.032% |
| 238 | 15.153 | 15.129 | 15.172 | VV | 869 | 14973 | 0.17% | 0.050% |
| 239 | 15.200 | 15.172 | 15.218 | VV | 675 | 15252 | 0.18% | 0.051% |
| 240 | 15.234 | 15.218 | 15.242 | VV | 601 | 7880 | 0.09% | 0.026% |
| 241 | 15.254 | 15.242 | 15.319 | VV | 857 | 24221 | 0.28% | 0.081% |
| 242 | 15.373 | 15.319 | 15.423 | VV | 1077 | 50073 | 0.58% | 0.167% |
| 243 | 15.436 | 15.423 | 15.479 | VV | 1050 | 26019 | 0.30% | 0.087% |
| 244 | 15.517 | 15.479 | 15.535 | VV | 1307 | 24590 | 0.28% | 0.082% |
| 245 | 15.557 | 15.535 | 15.585 | VV | 2744 | 45179 | 0.52% | 0.151% |
| 246 | 15.608 | 15.585 | 15.680 | VV | 1193 | 30544 | 0.35% | 0.102% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 15.711 | 15.680 | 15.740 | PV | 905 | 18019 | 0.21% | 0.060% |
| 248 | 15.767 | 15.740 | 15.808 | VV | 671 | 16675 | 0.19% | 0.056% |
| 249 | 15.847 | 15.808 | 15.862 | VV | 354 | 5785 | 0.07% | 0.019% |
| 250 | 15.875 | 15.862 | 15.884 | PV | 303 | 2047 | 0.02% | 0.007% |
| 251 | 15.927 | 15.884 | 15.997 | VV | 3389 | 88588 | 1.02% | 0.296% |
| 252 | 16.036 | 15.997 | 16.075 | VV | 1980 | 49322 | 0.57% | 0.165% |
| 253 | 16.110 | 16.075 | 16.137 | VV | 1896 | 35874 | 0.41% | 0.120% |
| 254 | 16.168 | 16.137 | 16.190 | VV | 1451 | 27518 | 0.32% | 0.092% |
| 255 | 16.240 | 16.190 | 16.277 | VV | 879 | 36599 | 0.42% | 0.122% |
| 256 | 16.286 | 16.277 | 16.295 | VV | 691 | 6833 | 0.08% | 0.023% |
| 257 | 16.318 | 16.295 | 16.330 | VV | 1314 | 20029 | 0.23% | 0.067% |
| 258 | 16.355 | 16.330 | 16.379 | VV | 5660 | 84743 | 0.98% | 0.283% |
| 259 | 16.413 | 16.379 | 16.445 | VV | 3496 | 79083 | 0.91% | 0.264% |
| 260 | 16.475 | 16.445 | 16.492 | VV | 4192 | 72018 | 0.83% | 0.241% |
| 261 | 16.500 | 16.492 | 16.519 | VV | 2925 | 35381 | 0.41% | 0.118% |
| 262 | 16.544 | 16.519 | 16.624 | VV | 15877 | 250284 | 2.88% | 0.837% |
| 263 | 16.632 | 16.624 | 16.675 | VV | 531 | 10016 | 0.12% | 0.033% |
| 264 | 16.704 | 16.675 | 16.743 | VV | 433 | 8523 | 0.10% | 0.028% |
| 265 | 16.805 | 16.743 | 16.837 | PV | 1068 | 27122 | 0.31% | 0.091% |
| 266 | 16.869 | 16.837 | 16.919 | VV | 2408 | 59314 | 0.68% | 0.198% |
| 267 | 16.948 | 16.919 | 16.997 | VV | 2469 | 49727 | 0.57% | 0.166% |
| 268 | 17.066 | 16.997 | 17.109 | VV | 5947 | 118040 | 1.36% | 0.395% |
| 269 | 17.127 | 17.109 | 17.140 | VV | 437 | 6150 | 0.07% | 0.021% |
| 270 | 17.172 | 17.140 | 17.211 | VV | 705 | 22750 | 0.26% | 0.076% |
| 271 | 17.241 | 17.211 | 17.291 | VV | 2084 | 43264 | 0.50% | 0.145% |
| 272 | 17.316 | 17.291 | 17.329 | VV | 779 | 12708 | 0.15% | 0.042% |
| 273 | 17.357 | 17.329 | 17.366 | VV | 1951 | 30453 | 0.35% | 0.102% |
| 274 | 17.382 | 17.366 | 17.412 | VV | 3009 | 45967 | 0.53% | 0.154% |
| 275 | 17.472 | 17.412 | 17.500 | VV | 2205 | 46076 | 0.53% | 0.154% |
| 276 | 17.510 | 17.500 | 17.524 | VV | 659 | 7823 | 0.09% | 0.026% |
| 277 | 17.553 | 17.524 | 17.633 | VV | 4735 | 103714 | 1.19% | 0.347% |
| 278 | 17.679 | 17.633 | 17.717 | VV | 12314 | 288882 | 3.32% | 0.966% |
| 279 | 17.739 | 17.717 | 17.780 | VV | 11083 | 231247 | 2.66% | 0.773% |
| 280 | 17.804 | 17.780 | 17.869 | VV | 4730 | 108463 | 1.25% | 0.363% |
| 281 | 17.886 | 17.869 | 17.967 | VV | 1252 | 28085 | 0.32% | 0.094% |
| 282 | 18.043 | 17.967 | 18.072 | VV | 1725 | 43575 | 0.50% | 0.146% |
| 283 | 18.087 | 18.072 | 18.105 | VV | 418 | 7160 | 0.08% | 0.024% |
| 284 | 18.115 | 18.105 | 18.129 | VV | 277 | 2866 | 0.03% | 0.010% |
| 285 | 18.159 | 18.129 | 18.190 | PV | 1089 | 19762 | 0.23% | 0.066% |

Sum of corrected areas: 29918028

Aromatic EPH 111424.M Tue Nov 19 11:06:38 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 8:37 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FC067816.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.35 | J | 1 | 0.24 | 0.68 | mg/kg | FC067816.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.31 | U | 1 | 0.31 | 1.02 | mg/kg | FC067816.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.81 | U | 1 | 0.81 | 1.36 | mg/kg | FC067816.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.30 | | 1 | 1.83 | 2.04 | mg/kg | FC067816.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FD048775.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.41 | J | 1 | 0.35 | 1.02 | mg/kg | FD048775.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 3.63 | | 1 | 0.98 | 1.70 | mg/kg | FD048775.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.04 | U | 1 | 2.04 | 2.71 | mg/kg | FD048775.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.58 | U | | 3.58 | 6.12 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 4.04 | J | | 3.67 | 6.11 | mg/kg | |
| Total EPH | Total EPH | 7.25 | U | | 7.25 | 12.2 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067816.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.35 | J | 0.24 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.31 | U | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.81 | U | 0.81 | 1.36 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 2.30 | | 1.83 | 2.04 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 26.1 | | 40 - 140 | 52% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-05 | Acq On: | 19 Nov 2024 08:37 |
| Client Sample ID: | PH2-BOT-004 | Operator: | YP/AJ |
| Data file: | FC067816.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 26 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 402363 | 2.427 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 875885 | 5.141 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 456323 | 2.69 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 534171 | 3.396 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 4105991 | 33.903 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 6374733 | 47.557 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.940 | 12.940 | 3785982 | 26.08 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 2268742 | 13.654 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067816.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 08:37
Operator : YP/AJ
Sample : P4860-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-004

Integration File: sample.E
Quant Time: Nov 19 10:47:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 12.940 | 3785982 | 26.081 ug/ml |
| Spiked Amount 50.000 | | Recovery = 52.16% | |
| Target Compounds | | | |

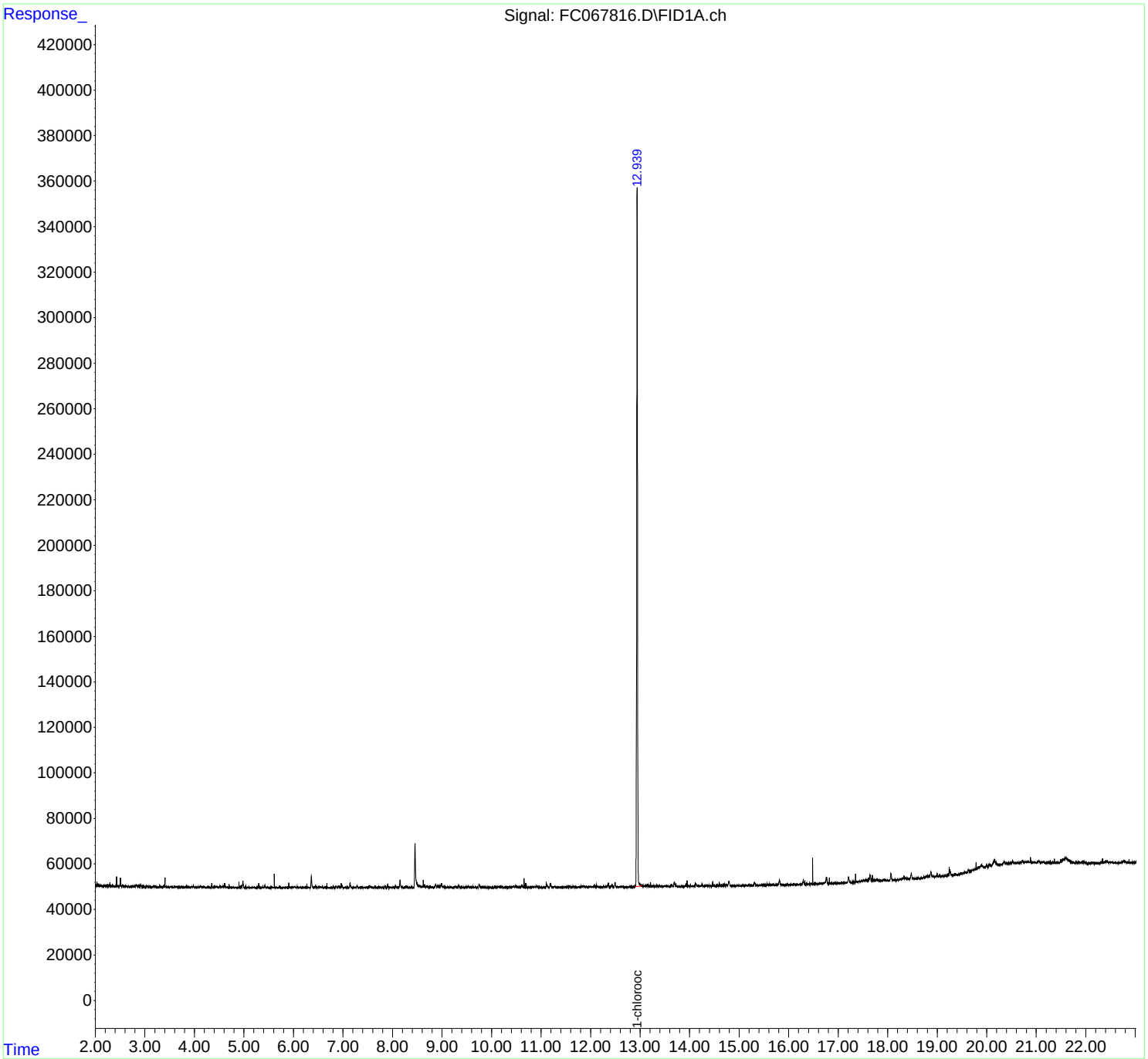
(f)=RT Delta > 1/2 Window (m)=manual int.

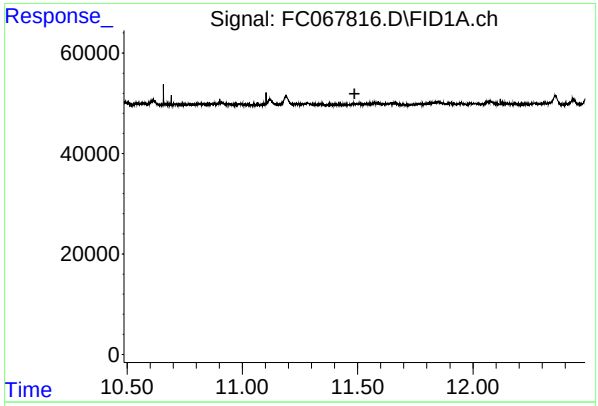
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067816.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 08:37
Operator : YP/AJ
Sample : P4860-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-004

Integration File: sample.E
Quant Time: Nov 19 10:47:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

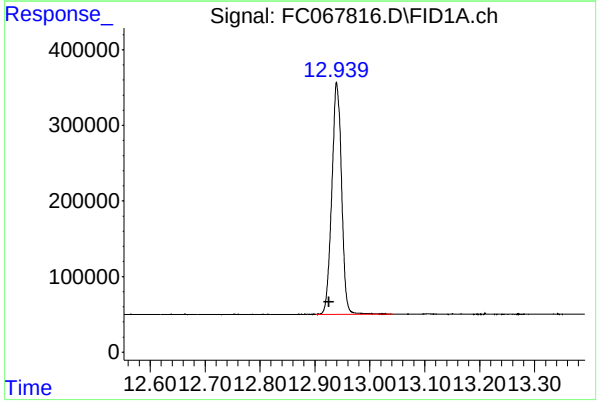





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-004




#12 1-chlorooctadecane (SURR)

R.T.: 12.940 min
Delta R.T.: 0.014 min
Response: 3785982
Conc: 26.08 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067816.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 08:37
Sample : P4860-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.262 | 3.225 | 3.275 | BV | 53 | 263 | 0.01% | 0.003% |
| 2 | 3.298 | 3.275 | 3.312 | PV | 253 | 2803 | 0.07% | 0.027% |
| 3 | 3.329 | 3.312 | 3.341 | PV | 94 | 1335 | 0.03% | 0.013% |
| 4 | 3.351 | 3.341 | 3.365 | VV | 63 | 763 | 0.02% | 0.007% |
| 5 | 3.371 | 3.365 | 3.396 | VV | 93 | 1843 | 0.05% | 0.018% |
| 6 | 3.408 | 3.396 | 3.462 | VV | 1414 | 4807 | 0.13% | 0.047% |
| 7 | 3.489 | 3.462 | 3.525 | VV | 125 | 2640 | 0.07% | 0.026% |
| 8 | 3.532 | 3.525 | 3.545 | VV | 97 | 1052 | 0.03% | 0.010% |
| 9 | 3.561 | 3.545 | 3.576 | VV | 162 | 1771 | 0.05% | 0.017% |
| 10 | 3.608 | 3.576 | 3.631 | VV | 247 | 3944 | 0.10% | 0.038% |
| 11 | 3.661 | 3.631 | 3.732 | VV | 301 | 4666 | 0.12% | 0.045% |
| 12 | 3.741 | 3.732 | 3.801 | VV | 109 | 3116 | 0.08% | 0.030% |
| 13 | 3.810 | 3.801 | 3.825 | VV | 126 | 1138 | 0.03% | 0.011% |
| 14 | 3.833 | 3.825 | 3.855 | VV | 125 | 1600 | 0.04% | 0.015% |
| 15 | 3.868 | 3.855 | 3.918 | VV | 123 | 2457 | 0.06% | 0.024% |
| 16 | 3.952 | 3.918 | 3.964 | VV | 330 | 4749 | 0.12% | 0.046% |
| 17 | 3.980 | 3.964 | 4.027 | VV | 668 | 7958 | 0.21% | 0.077% |
| 18 | 4.048 | 4.027 | 4.061 | VV | 156 | 1598 | 0.04% | 0.015% |
| 19 | 4.064 | 4.061 | 4.085 | VV | 95 | 905 | 0.02% | 0.009% |
| 20 | 4.099 | 4.085 | 4.107 | VV | 152 | 1701 | 0.04% | 0.016% |
| 21 | 4.128 | 4.107 | 4.167 | VV | 608 | 8783 | 0.23% | 0.085% |
| 22 | 4.274 | 4.167 | 4.313 | VV | 432 | 12867 | 0.34% | 0.125% |
| 23 | 4.351 | 4.313 | 4.381 | VV | 1043 | 11379 | 0.30% | 0.110% |
| 24 | 4.393 | 4.381 | 4.431 | VV | 299 | 5992 | 0.16% | 0.058% |
| 25 | 4.461 | 4.431 | 4.489 | VV | 362 | 8883 | 0.23% | 0.086% |
| 26 | 4.517 | 4.489 | 4.541 | VV | 888 | 12625 | 0.33% | 0.122% |
| 27 | 4.549 | 4.541 | 4.557 | VV | 246 | 2200 | 0.06% | 0.021% |
| 28 | 4.573 | 4.557 | 4.587 | VV | 613 | 7177 | 0.19% | 0.069% |
| 29 | 4.604 | 4.587 | 4.648 | VV | 1097 | 16197 | 0.42% | 0.157% |
| 30 | 4.656 | 4.648 | 4.681 | VV | 198 | 3288 | 0.09% | 0.032% |
| 31 | 4.698 | 4.681 | 4.709 | VV | 597 | 3565 | 0.09% | 0.035% |
| 32 | 4.721 | 4.709 | 4.782 | VV | 254 | 7066 | 0.18% | 0.068% |
| 33 | 4.795 | 4.782 | 4.865 | VV | 171 | 5027 | 0.13% | 0.049% |
| 34 | 4.900 | 4.865 | 4.930 | PV | 523 | 6138 | 0.16% | 0.059% |
| 35 | 4.981 | 4.930 | 5.014 | VV | 3008 | 38391 | 1.00% | 0.372% |
| 36 | 5.038 | 5.014 | 5.081 | VV | 645 | 8986 | 0.23% | 0.087% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.104 | 5.081 | 5.121 | VV | 146 | 2363 | 0.06% | 0.023% |
| 38 | 5.129 | 5.121 | 5.134 | VV | 71 | 468 | 0.01% | 0.005% |
| 39 | 5.172 | 5.134 | 5.243 | VV | 200 | 7637 | 0.20% | 0.074% |
| 40 | 5.271 | 5.243 | 5.287 | VV | 308 | 3377 | 0.09% | 0.033% |
| 41 | 5.300 | 5.287 | 5.368 | VV | 1033 | 7916 | 0.21% | 0.077% |
| 42 | 5.384 | 5.368 | 5.405 | VV | 585 | 6618 | 0.17% | 0.064% |
| 43 | 5.424 | 5.405 | 5.464 | VV | 907 | 11333 | 0.30% | 0.110% |
| 44 | 5.481 | 5.464 | 5.529 | VV | 229 | 5821 | 0.15% | 0.056% |
| 45 | 5.547 | 5.529 | 5.637 | VV | 351 | 12264 | 0.32% | 0.119% |
| 46 | 5.672 | 5.637 | 5.705 | VV | 229 | 5764 | 0.15% | 0.056% |
| 47 | 5.715 | 5.705 | 5.765 | VV | 313 | 3477 | 0.09% | 0.034% |
| 48 | 5.805 | 5.765 | 5.817 | PV | 102 | 1908 | 0.05% | 0.018% |
| 49 | 5.847 | 5.817 | 5.883 | VV | 344 | 4819 | 0.13% | 0.047% |
| 50 | 5.907 | 5.883 | 5.961 | VV | 869 | 10000 | 0.26% | 0.097% |
| 51 | 5.978 | 5.961 | 6.006 | VV | 302 | 6050 | 0.16% | 0.059% |
| 52 | 6.022 | 6.006 | 6.051 | VV | 540 | 8864 | 0.23% | 0.086% |
| 53 | 6.071 | 6.051 | 6.115 | VV | 385 | 7969 | 0.21% | 0.077% |
| 54 | 6.157 | 6.115 | 6.176 | VV | 282 | 6283 | 0.16% | 0.061% |
| 55 | 6.199 | 6.176 | 6.225 | VV | 174 | 3172 | 0.08% | 0.031% |
| 56 | 6.248 | 6.225 | 6.268 | VV | 177 | 2758 | 0.07% | 0.027% |
| 57 | 6.273 | 6.268 | 6.337 | VV | 396 | 5920 | 0.15% | 0.057% |
| 58 | 6.363 | 6.337 | 6.418 | VV | 4987 | 58487 | 1.53% | 0.566% |
| 59 | 6.445 | 6.418 | 6.466 | VV | 633 | 9422 | 0.25% | 0.091% |
| 60 | 6.481 | 6.466 | 6.492 | VV | 307 | 3493 | 0.09% | 0.034% |
| 61 | 6.512 | 6.492 | 6.535 | VV | 863 | 10785 | 0.28% | 0.104% |
| 62 | 6.544 | 6.535 | 6.569 | VV | 336 | 4586 | 0.12% | 0.044% |
| 63 | 6.583 | 6.569 | 6.608 | VV | 516 | 6025 | 0.16% | 0.058% |
| 64 | 6.639 | 6.608 | 6.651 | VV | 171 | 3170 | 0.08% | 0.031% |
| 65 | 6.679 | 6.651 | 6.706 | VV | 732 | 6167 | 0.16% | 0.060% |
| 66 | 6.718 | 6.706 | 6.765 | VV | 194 | 3007 | 0.08% | 0.029% |
| 67 | 6.768 | 6.765 | 6.785 | VV | 97 | 714 | 0.02% | 0.007% |
| 68 | 6.803 | 6.785 | 6.837 | VV | 514 | 7293 | 0.19% | 0.071% |
| 69 | 6.856 | 6.837 | 6.885 | VV | 620 | 10549 | 0.28% | 0.102% |
| 70 | 6.905 | 6.885 | 6.950 | VV | 621 | 13389 | 0.35% | 0.130% |
| 71 | 6.983 | 6.950 | 7.004 | VV | 963 | 16415 | 0.43% | 0.159% |
| 72 | 7.021 | 7.004 | 7.043 | VV | 188 | 3079 | 0.08% | 0.030% |
| 73 | 7.061 | 7.043 | 7.070 | PV | 124 | 1839 | 0.05% | 0.018% |
| 74 | 7.089 | 7.070 | 7.113 | VV | 281 | 3938 | 0.10% | 0.038% |
| 75 | 7.144 | 7.113 | 7.168 | VV | 2264 | 25902 | 0.68% | 0.251% |
| 76 | 7.224 | 7.168 | 7.235 | VV | 306 | 8191 | 0.21% | 0.079% |
| 77 | 7.250 | 7.235 | 7.262 | VV | 354 | 4070 | 0.11% | 0.039% |
| 78 | 7.284 | 7.262 | 7.332 | VV | 1050 | 15352 | 0.40% | 0.149% |
| 79 | 7.346 | 7.332 | 7.362 | VV | 327 | 4137 | 0.11% | 0.040% |
| 80 | 7.375 | 7.362 | 7.424 | VV | 417 | 6114 | 0.16% | 0.059% |
| 81 | 7.439 | 7.424 | 7.475 | VV | 196 | 3407 | 0.09% | 0.033% |
| 82 | 7.545 | 7.475 | 7.588 | VV | 878 | 15903 | 0.41% | 0.154% |
| 83 | 7.595 | 7.588 | 7.611 | VV | 174 | 2466 | 0.06% | 0.024% |
| 84 | 7.648 | 7.611 | 7.661 | VV | 506 | 6123 | 0.16% | 0.059% |
| 85 | 7.666 | 7.661 | 7.675 | VV | 184 | 1167 | 0.03% | 0.011% |
| 86 | 7.704 | 7.675 | 7.738 | VV | 294 | 8623 | 0.22% | 0.083% |
| 87 | 7.740 | 7.738 | 7.791 | VV | 261 | 4571 | 0.12% | 0.044% |
| 88 | 7.808 | 7.791 | 7.824 | VV | 262 | 3141 | 0.08% | 0.030% |
| 89 | 7.849 | 7.824 | 7.877 | VV | 852 | 9292 | 0.24% | 0.090% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.905 | 7.877 | 7.928 | VV | 1147 | 13271 | 0.35% | 0.128% |
| 91 | 7.940 | 7.928 | 7.959 | VV | 174 | 2183 | 0.06% | 0.021% |
| 92 | 7.977 | 7.959 | 7.994 | VV | 192 | 2651 | 0.07% | 0.026% |
| 93 | 8.003 | 7.994 | 8.037 | VV | 126 | 2684 | 0.07% | 0.026% |
| 94 | 8.058 | 8.037 | 8.085 | VV | 481 | 6682 | 0.17% | 0.065% |
| 95 | 8.097 | 8.085 | 8.128 | VV | 263 | 3534 | 0.09% | 0.034% |
| 96 | 8.153 | 8.128 | 8.222 | VV | 3396 | 43824 | 1.14% | 0.424% |
| 97 | 8.261 | 8.222 | 8.283 | VV | 432 | 10849 | 0.28% | 0.105% |
| 98 | 8.300 | 8.283 | 8.324 | VV | 399 | 5840 | 0.15% | 0.057% |
| 99 | 8.345 | 8.324 | 8.364 | VV | 284 | 4354 | 0.11% | 0.042% |
| 100 | 8.383 | 8.364 | 8.431 | VV | 474 | 6225 | 0.16% | 0.060% |
| 101 | 8.456 | 8.431 | 8.591 | VV | 19424 | 298314 | 7.78% | 2.887% |
| 102 | 8.623 | 8.591 | 8.670 | VV | 1144 | 26576 | 0.69% | 0.257% |
| 103 | 8.691 | 8.670 | 8.736 | VV | 814 | 19921 | 0.52% | 0.193% |
| 104 | 8.754 | 8.736 | 8.784 | VV | 379 | 6393 | 0.17% | 0.062% |
| 105 | 8.803 | 8.784 | 8.829 | VV | 337 | 5486 | 0.14% | 0.053% |
| 106 | 8.871 | 8.829 | 8.891 | VV | 1553 | 23208 | 0.61% | 0.225% |
| 107 | 8.909 | 8.891 | 8.923 | VV | 803 | 12149 | 0.32% | 0.118% |
| 108 | 8.949 | 8.923 | 8.961 | VV | 609 | 12265 | 0.32% | 0.119% |
| 109 | 8.989 | 8.961 | 9.019 | VV | 1840 | 32633 | 0.85% | 0.316% |
| 110 | 9.027 | 9.019 | 9.043 | VV | 281 | 3591 | 0.09% | 0.035% |
| 111 | 9.059 | 9.043 | 9.087 | VV | 497 | 7196 | 0.19% | 0.070% |
| 112 | 9.110 | 9.087 | 9.130 | VV | 419 | 5778 | 0.15% | 0.056% |
| 113 | 9.160 | 9.130 | 9.177 | VV | 365 | 6141 | 0.16% | 0.059% |
| 114 | 9.191 | 9.177 | 9.201 | VV | 197 | 2532 | 0.07% | 0.025% |
| 115 | 9.274 | 9.201 | 9.314 | VV | 395 | 15910 | 0.42% | 0.154% |
| 116 | 9.338 | 9.314 | 9.374 | VV | 920 | 14046 | 0.37% | 0.136% |
| 117 | 9.391 | 9.374 | 9.426 | VV | 285 | 4889 | 0.13% | 0.047% |
| 118 | 9.436 | 9.426 | 9.452 | VV | 136 | 1721 | 0.04% | 0.017% |
| 119 | 9.479 | 9.452 | 9.510 | VV | 449 | 8223 | 0.21% | 0.080% |
| 120 | 9.532 | 9.510 | 9.581 | VV | 664 | 11633 | 0.30% | 0.113% |
| 121 | 9.587 | 9.581 | 9.599 | VV | 210 | 1509 | 0.04% | 0.015% |
| 122 | 9.622 | 9.599 | 9.648 | VV | 202 | 2746 | 0.07% | 0.027% |
| 123 | 9.672 | 9.648 | 9.725 | PV | 380 | 7075 | 0.18% | 0.068% |
| 124 | 9.751 | 9.725 | 9.776 | VV | 1356 | 17813 | 0.46% | 0.172% |
| 125 | 9.784 | 9.776 | 9.805 | VV | 232 | 2870 | 0.07% | 0.028% |
| 126 | 9.825 | 9.805 | 9.884 | VV | 336 | 10262 | 0.27% | 0.099% |
| 127 | 9.897 | 9.884 | 9.955 | VV | 199 | 5425 | 0.14% | 0.053% |
| 128 | 9.958 | 9.955 | 9.975 | PV | 175 | 454 | 0.01% | 0.004% |
| 129 | 10.005 | 9.975 | 10.013 | VV | 129 | 1515 | 0.04% | 0.015% |
| 130 | 10.030 | 10.013 | 10.043 | VV | 216 | 2496 | 0.07% | 0.024% |
| 131 | 10.062 | 10.043 | 10.105 | VV | 464 | 7281 | 0.19% | 0.070% |
| 132 | 10.144 | 10.105 | 10.165 | VV | 435 | 10206 | 0.27% | 0.099% |
| 133 | 10.183 | 10.165 | 10.203 | VV | 340 | 5688 | 0.15% | 0.055% |
| 134 | 10.226 | 10.203 | 10.248 | VV | 288 | 5243 | 0.14% | 0.051% |
| 135 | 10.264 | 10.248 | 10.289 | VV | 222 | 3387 | 0.09% | 0.033% |
| 136 | 10.311 | 10.289 | 10.324 | VV | 126 | 1822 | 0.05% | 0.018% |
| 137 | 10.348 | 10.324 | 10.365 | VV | 361 | 5305 | 0.14% | 0.051% |
| 138 | 10.381 | 10.365 | 10.401 | VV | 301 | 4748 | 0.12% | 0.046% |
| 139 | 10.428 | 10.401 | 10.454 | VV | 416 | 9499 | 0.25% | 0.092% |
| 140 | 10.489 | 10.454 | 10.528 | VV | 637 | 16092 | 0.42% | 0.156% |
| 141 | 10.544 | 10.528 | 10.554 | VV | 408 | 4598 | 0.12% | 0.045% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.568 | 10.554 | 10.588 | VV | 436 | 6463 | 0.17% | 0.063% |
| 143 | 10.614 | 10.588 | 10.655 | VV | 961 | 17674 | 0.46% | 0.171% |
| 144 | 10.658 | 10.655 | 10.666 | VV | 1570 | 3805 | 0.10% | 0.037% |
| 145 | 10.691 | 10.666 | 10.726 | VV | 833 | 7160 | 0.19% | 0.069% |
| 146 | 10.739 | 10.726 | 10.754 | VV | 132 | 1939 | 0.05% | 0.019% |
| 147 | 10.770 | 10.754 | 10.791 | VV | 193 | 2632 | 0.07% | 0.025% |
| 148 | 10.812 | 10.791 | 10.840 | VV | 304 | 6146 | 0.16% | 0.059% |
| 149 | 10.858 | 10.840 | 10.872 | VV | 338 | 4878 | 0.13% | 0.047% |
| 150 | 10.903 | 10.872 | 10.935 | VV | 612 | 12635 | 0.33% | 0.122% |
| 151 | 10.940 | 10.935 | 10.958 | VV | 267 | 2602 | 0.07% | 0.025% |
| 152 | 10.988 | 10.958 | 11.015 | VV | 239 | 5614 | 0.15% | 0.054% |
| 153 | 11.026 | 11.015 | 11.057 | VV | 189 | 2470 | 0.06% | 0.024% |
| 154 | 11.067 | 11.057 | 11.076 | VV | 259 | 977 | 0.03% | 0.009% |
| 155 | 11.119 | 11.076 | 11.155 | PV | 1206 | 19916 | 0.52% | 0.193% |
| 156 | 11.190 | 11.155 | 11.260 | VV | 1796 | 31205 | 0.81% | 0.302% |
| 157 | 11.282 | 11.260 | 11.325 | VV | 417 | 7928 | 0.21% | 0.077% |
| 158 | 11.344 | 11.325 | 11.370 | VV | 194 | 2981 | 0.08% | 0.029% |
| 159 | 11.404 | 11.370 | 11.442 | VV | 181 | 4060 | 0.11% | 0.039% |
| 160 | 11.482 | 11.442 | 11.492 | PV | 232 | 3580 | 0.09% | 0.035% |
| 161 | 11.505 | 11.492 | 11.522 | VV | 221 | 3504 | 0.09% | 0.034% |
| 162 | 11.575 | 11.522 | 11.620 | VV | 411 | 13339 | 0.35% | 0.129% |
| 163 | 11.645 | 11.620 | 11.698 | VV | 361 | 9786 | 0.26% | 0.095% |
| 164 | 11.850 | 11.698 | 11.888 | VV | 564 | 24200 | 0.63% | 0.234% |
| 165 | 11.904 | 11.888 | 11.930 | VV | 295 | 5272 | 0.14% | 0.051% |
| 166 | 11.946 | 11.930 | 11.972 | VV | 323 | 4635 | 0.12% | 0.045% |
| 167 | 11.991 | 11.972 | 12.035 | VV | 312 | 7689 | 0.20% | 0.074% |
| 168 | 12.075 | 12.035 | 12.125 | VV | 675 | 18194 | 0.47% | 0.176% |
| 169 | 12.138 | 12.125 | 12.165 | VV | 329 | 5317 | 0.14% | 0.051% |
| 170 | 12.181 | 12.165 | 12.215 | VV | 221 | 3751 | 0.10% | 0.036% |
| 171 | 12.226 | 12.215 | 12.244 | VV | 176 | 1861 | 0.05% | 0.018% |
| 172 | 12.267 | 12.244 | 12.284 | VV | 309 | 4597 | 0.12% | 0.044% |
| 173 | 12.308 | 12.284 | 12.321 | VV | 356 | 5316 | 0.14% | 0.051% |
| 174 | 12.358 | 12.321 | 12.387 | VV | 1825 | 26961 | 0.70% | 0.261% |
| 175 | 12.434 | 12.387 | 12.464 | VV | 1020 | 15956 | 0.42% | 0.154% |
| 176 | 12.495 | 12.464 | 12.541 | VV | 2108 | 28344 | 0.74% | 0.274% |
| 177 | 12.552 | 12.541 | 12.557 | VV | 143 | 1074 | 0.03% | 0.010% |
| 178 | 12.566 | 12.557 | 12.604 | VV | 171 | 3069 | 0.08% | 0.030% |
| 179 | 12.638 | 12.604 | 12.684 | VV | 186 | 4267 | 0.11% | 0.041% |
| 180 | 12.711 | 12.684 | 12.730 | VV | 118 | 1491 | 0.04% | 0.014% |
| 181 | 12.780 | 12.730 | 12.801 | PV | 226 | 5572 | 0.15% | 0.054% |
| 182 | 12.811 | 12.801 | 12.829 | VV | 152 | 1834 | 0.05% | 0.018% |
| 183 | 12.940 | 12.829 | 13.081 | VV | 300269 | 3832855 | 100.00% | 37.099% |
| 184 | 13.107 | 13.081 | 13.141 | VV | 695 | 18700 | 0.49% | 0.181% |
| 185 | 13.152 | 13.141 | 13.161 | VV | 682 | 5531 | 0.14% | 0.054% |
| 186 | 13.164 | 13.161 | 13.199 | VV | 520 | 7639 | 0.20% | 0.074% |
| 187 | 13.211 | 13.199 | 13.288 | VV | 842 | 14364 | 0.37% | 0.139% |
| 188 | 13.313 | 13.288 | 13.338 | VV | 442 | 10101 | 0.26% | 0.098% |
| 189 | 13.341 | 13.338 | 13.386 | VV | 522 | 9809 | 0.26% | 0.095% |
| 190 | 13.394 | 13.386 | 13.428 | VV | 439 | 6587 | 0.17% | 0.064% |
| 191 | 13.454 | 13.428 | 13.473 | VV | 208 | 4332 | 0.11% | 0.042% |
| 192 | 13.509 | 13.473 | 13.525 | VV | 264 | 6294 | 0.16% | 0.061% |
| 193 | 13.547 | 13.525 | 13.580 | VV | 339 | 7092 | 0.19% | 0.069% |
| 194 | 13.639 | 13.580 | 13.665 | VV | 886 | 16857 | 0.44% | 0.163% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.692 | 13.665 | 13.763 | VV | 2027 | 31869 | 0.83% | 0.308% |
| 196 | 13.780 | 13.763 | 13.792 | VV | 89 | 1377 | 0.04% | 0.013% |
| 197 | 13.798 | 13.792 | 13.805 | VV | 69 | 209 | 0.01% | 0.002% |
| 198 | 13.820 | 13.805 | 13.851 | PV | 80 | 1389 | 0.04% | 0.013% |
| 199 | 13.872 | 13.851 | 13.882 | VV | 108 | 1391 | 0.04% | 0.013% |
| 200 | 13.925 | 13.882 | 13.945 | VV | 616 | 6684 | 0.17% | 0.065% |
| 201 | 13.949 | 13.945 | 13.977 | VV | 739 | 4516 | 0.12% | 0.044% |
| 202 | 14.006 | 13.977 | 14.051 | VV | 213 | 5765 | 0.15% | 0.056% |
| 203 | 14.070 | 14.051 | 14.095 | VV | 179 | 3225 | 0.08% | 0.031% |
| 204 | 14.127 | 14.095 | 14.165 | VV | 1089 | 19390 | 0.51% | 0.188% |
| 205 | 14.182 | 14.165 | 14.203 | VV | 222 | 4226 | 0.11% | 0.041% |
| 206 | 14.218 | 14.203 | 14.227 | VV | 175 | 2262 | 0.06% | 0.022% |
| 207 | 14.253 | 14.227 | 14.294 | VV | 731 | 13791 | 0.36% | 0.133% |
| 208 | 14.316 | 14.294 | 14.325 | VV | 215 | 2664 | 0.07% | 0.026% |
| 209 | 14.391 | 14.325 | 14.438 | VV | 298 | 13778 | 0.36% | 0.133% |
| 210 | 14.466 | 14.438 | 14.511 | VV | 824 | 9993 | 0.26% | 0.097% |
| 211 | 14.520 | 14.511 | 14.533 | VV | 246 | 2903 | 0.08% | 0.028% |
| 212 | 14.598 | 14.533 | 14.675 | VV | 862 | 19790 | 0.52% | 0.192% |
| 213 | 14.679 | 14.675 | 14.728 | VV | 283 | 5147 | 0.13% | 0.050% |
| 214 | 14.748 | 14.728 | 14.768 | VV | 759 | 11358 | 0.30% | 0.110% |
| 215 | 14.793 | 14.768 | 14.888 | VV | 2124 | 40137 | 1.05% | 0.388% |
| 216 | 14.895 | 14.888 | 14.915 | VV | 135 | 1341 | 0.03% | 0.013% |
| 217 | 14.923 | 14.915 | 14.937 | PV | 83 | 887 | 0.02% | 0.009% |
| 218 | 14.965 | 14.937 | 14.988 | VV | 278 | 4647 | 0.12% | 0.045% |
| 219 | 14.994 | 14.988 | 15.019 | VV | 256 | 2407 | 0.06% | 0.023% |
| 220 | 15.061 | 15.019 | 15.095 | VV | 202 | 3496 | 0.09% | 0.034% |
| 221 | 15.107 | 15.095 | 15.175 | VV | 136 | 3246 | 0.08% | 0.031% |
| 222 | 15.225 | 15.175 | 15.255 | VV | 219 | 6507 | 0.17% | 0.063% |
| 223 | 15.262 | 15.255 | 15.282 | VV | 81 | 1359 | 0.04% | 0.013% |
| 224 | 15.312 | 15.282 | 15.385 | VV | 1289 | 21254 | 0.55% | 0.206% |
| 225 | 15.464 | 15.385 | 15.535 | PV | 268 | 7143 | 0.19% | 0.069% |
| 226 | 15.567 | 15.535 | 15.660 | VV | 327 | 9120 | 0.24% | 0.088% |
| 227 | 15.684 | 15.660 | 15.721 | VV | 382 | 4493 | 0.12% | 0.043% |
| 228 | 15.812 | 15.721 | 15.931 | VV | 2248 | 45603 | 1.19% | 0.441% |
| 229 | 15.972 | 15.931 | 16.058 | PV | 251 | 6215 | 0.16% | 0.060% |
| 230 | 16.122 | 16.058 | 16.147 | PV | 140 | 5404 | 0.14% | 0.052% |
| 231 | 16.165 | 16.147 | 16.221 | VV | 141 | 3721 | 0.10% | 0.036% |
| 232 | 16.294 | 16.221 | 16.355 | PV | 1713 | 30564 | 0.80% | 0.296% |
| 233 | 16.372 | 16.355 | 16.391 | VV | 126 | 2606 | 0.07% | 0.025% |
| 234 | 16.485 | 16.391 | 16.535 | VV | 3871 | 20730 | 0.54% | 0.201% |
| 235 | 16.551 | 16.535 | 16.570 | VV | 204 | 3520 | 0.09% | 0.034% |
| 236 | 16.644 | 16.570 | 16.671 | VV | 292 | 12963 | 0.34% | 0.125% |
| 237 | 16.760 | 16.671 | 16.841 | VV | 2465 | 59645 | 1.56% | 0.577% |
| 238 | 16.871 | 16.841 | 16.891 | VV | 259 | 4666 | 0.12% | 0.045% |
| 239 | 16.914 | 16.891 | 16.951 | PV | 113 | 4163 | 0.11% | 0.040% |
| 240 | 16.989 | 16.951 | 17.016 | VV | 217 | 4861 | 0.13% | 0.047% |
| 241 | 17.058 | 17.016 | 17.126 | VV | 159 | 8635 | 0.23% | 0.084% |
| 242 | 17.155 | 17.126 | 17.181 | PV | 245 | 4569 | 0.12% | 0.044% |
| 243 | 17.209 | 17.181 | 17.268 | VV | 2699 | 40348 | 1.05% | 0.391% |
| 244 | 17.312 | 17.268 | 17.335 | VV | 327 | 8573 | 0.22% | 0.083% |
| 245 | 17.352 | 17.335 | 17.578 | VV | 1280 | 69857 | 1.82% | 0.676% |
| 246 | 17.644 | 17.578 | 17.736 | VV | 2990 | 93197 | 2.43% | 0.902% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 17.778 | 17.736 | 17.891 | VV | 743 | 40632 | 1.06% | 0.393% |
| 248 | 17.928 | 17.891 | 18.031 | VV | 449 | 24877 | 0.65% | 0.241% |
| 249 | 18.066 | 18.031 | 18.121 | VV | 3115 | 49755 | 1.30% | 0.482% |
| 250 | 18.146 | 18.121 | 18.178 | VV | 354 | 5934 | 0.15% | 0.057% |
| 251 | 18.331 | 18.178 | 18.424 | PV | 1088 | 50052 | 1.31% | 0.484% |
| 252 | 18.476 | 18.424 | 18.551 | VV | 2464 | 49282 | 1.29% | 0.477% |
| 253 | 18.566 | 18.551 | 18.586 | VV | 166 | 2370 | 0.06% | 0.023% |
| 254 | 18.616 | 18.586 | 18.646 | PV | 217 | 4077 | 0.11% | 0.039% |
| 255 | 18.781 | 18.646 | 18.801 | VV | 639 | 28017 | 0.73% | 0.271% |
| 256 | 18.872 | 18.801 | 18.940 | VV | 2246 | 69577 | 1.82% | 0.673% |
| 257 | 19.045 | 18.940 | 19.095 | VV | 612 | 30712 | 0.80% | 0.297% |
| 258 | 19.114 | 19.095 | 19.145 | VV | 206 | 3901 | 0.10% | 0.038% |
| 259 | 19.258 | 19.145 | 19.320 | PV | 1998 | 52329 | 1.37% | 0.506% |
| 260 | 19.359 | 19.320 | 19.381 | VV | 517 | 7769 | 0.20% | 0.075% |
| 261 | 19.560 | 19.381 | 19.598 | VV | 1060 | 71595 | 1.87% | 0.693% |
| 262 | 19.633 | 19.598 | 19.658 | VV | 1920 | 46953 | 1.23% | 0.454% |
| 263 | 19.896 | 19.658 | 19.965 | VV | 3444 | 402922 | 10.51% | 3.900% |
| 264 | 19.997 | 19.965 | 20.021 | VV | 3287 | 93685 | 2.44% | 0.907% |
| 265 | 20.055 | 20.021 | 20.078 | VV | 3148 | 98890 | 2.58% | 0.957% |
| 266 | 20.154 | 20.078 | 20.235 | VV | 4816 | 343674 | 8.97% | 3.326% |
| 267 | 20.352 | 20.235 | 20.418 | VV | 3969 | 363972 | 9.50% | 3.523% |
| 268 | 20.524 | 20.418 | 20.576 | VV | 3823 | 314460 | 8.20% | 3.044% |
| 269 | 20.607 | 20.576 | 20.638 | VV | 3147 | 114555 | 2.99% | 1.109% |
| 270 | 20.720 | 20.638 | 20.771 | VV | 3830 | 259083 | 6.76% | 2.508% |
| 271 | 20.806 | 20.771 | 20.875 | VV | 3150 | 184906 | 4.82% | 1.790% |
| 272 | 20.885 | 20.875 | 20.991 | VV | 3441 | 186710 | 4.87% | 1.807% |
| 273 | 21.048 | 20.991 | 21.091 | VV | 2885 | 155766 | 4.06% | 1.508% |
| 274 | 21.133 | 21.091 | 21.211 | VV | 2639 | 162204 | 4.23% | 1.570% |
| 275 | 21.255 | 21.211 | 21.281 | VV | 2032 | 83083 | 2.17% | 0.804% |
| 276 | 21.284 | 21.281 | 21.342 | VV | 2282 | 65692 | 1.71% | 0.636% |
| 277 | 21.368 | 21.342 | 21.405 | VV | 2022 | 63567 | 1.66% | 0.615% |
| 278 | 21.599 | 21.405 | 21.765 | VV | 3285 | 436121 | 11.38% | 4.221% |
| 279 | 21.785 | 21.765 | 21.803 | VV | 999 | 22152 | 0.58% | 0.214% |
| 280 | 21.838 | 21.803 | 21.918 | VV | 950 | 60029 | 1.57% | 0.581% |
| 281 | 21.959 | 21.918 | 22.058 | VV | 757 | 41763 | 1.09% | 0.404% |

Sum of corrected areas: 10331535

Aliphatic EPH 111424.M Tue Nov 19 10:55:00 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048775.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.41 | J | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 3.63 | | 0.98 | 1.70 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.04 | U | 2.04 | 2.71 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 58.1 | | 40 - 140 | 116% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 56.0 | | 40 - 140 | 112% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 32.3 | | 40 - 140 | 64% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-05 | Acq On: | 19 Nov 2024 08:37 |
| Client Sample ID: | PH2-BOT-004 | Operator: | YP/AJ |
| Data file: | FD048775.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 76 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 701194 | 3.652 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 1175464 | 6.108 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 9948235 | 53.541 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 4683341 | 29.786 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 16508234 | 93.087 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.367 | 7.367 | 10224205 | 58.07 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.216 | 8.216 | 6451850 | 56.02 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.251 | 11.251 | 6203268 | 32.25 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048775.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 08:37
Operator : YP/AJ
Sample : P4860-05
Misc :
ALS Vial : 76 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-004

Integration File: sample.E
Quant Time: Nov 19 10:59:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.367 | 10224205 | 58.073 ug/ml |
| Spiked Amount 50.000 | | Recovery = 116.15% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.216 | 6451850 | 56.020 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 112.04% | |
| 11) S ortho-Terphenyl (SURR) | 11.251 | 6203268 | 32.252 ug/ml |
| Spiked Amount 50.000 | | Recovery = 64.50% | |
| **Target Compounds** | | | |

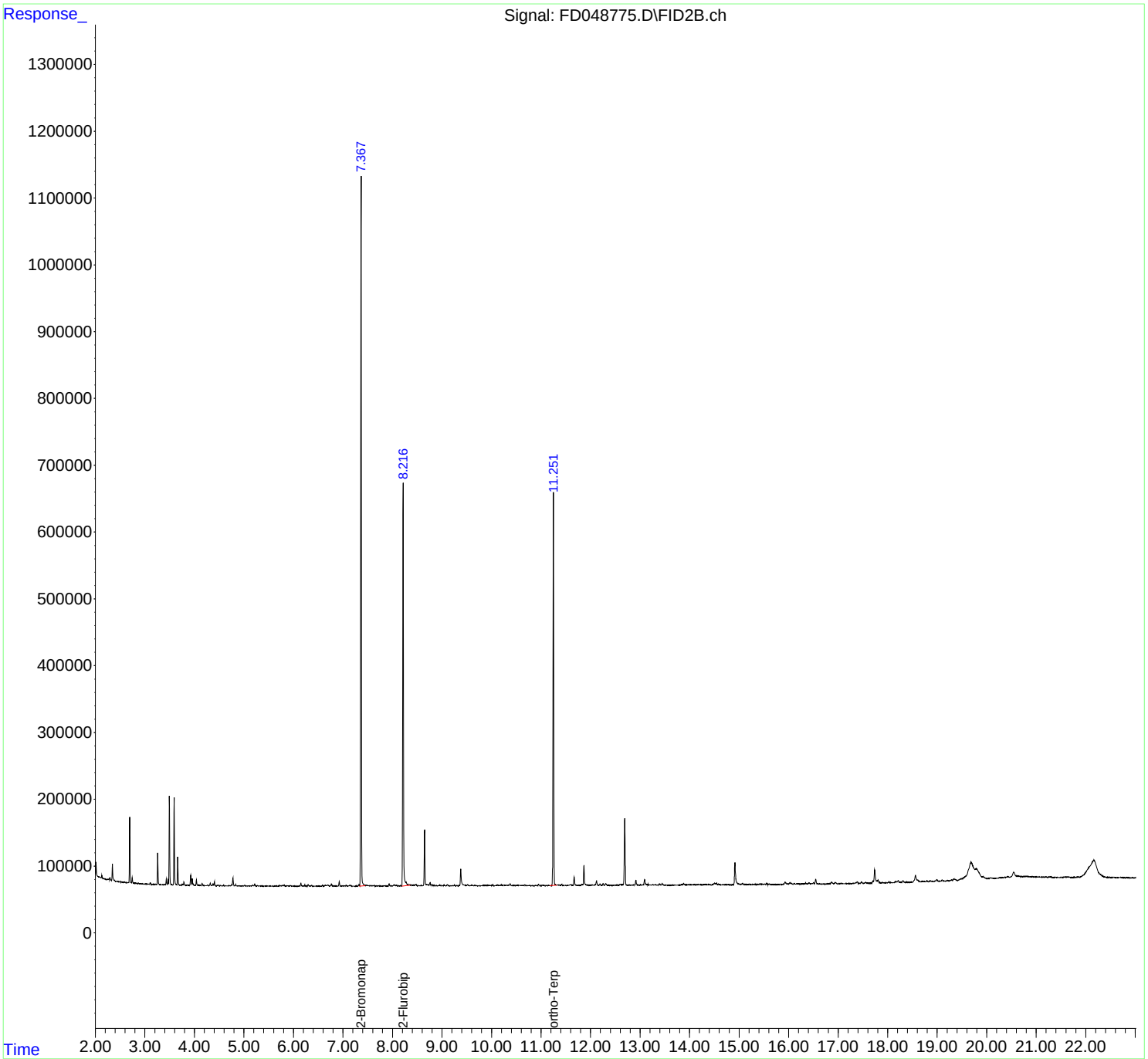
(f)=RT Delta > 1/2 Window (m)=manual int.

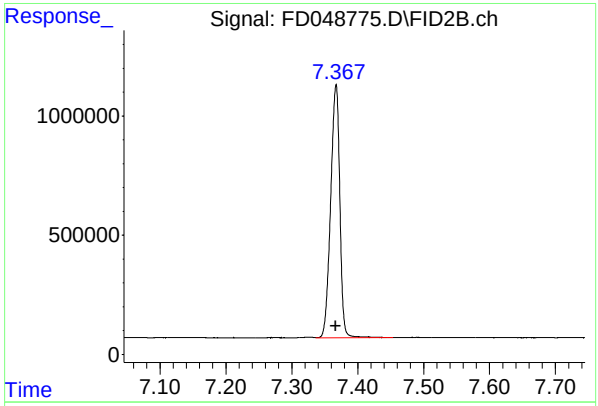
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048775.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 08:37
Operator : YP/AJ
Sample : P4860-05
Misc :
ALS Vial : 76 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-004

Integration File: sample.E
Quant Time: Nov 19 10:59:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

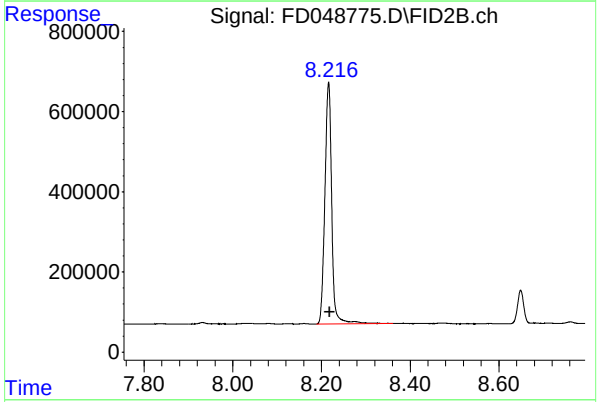





#4 2-Bromonaphthalene (SURR)

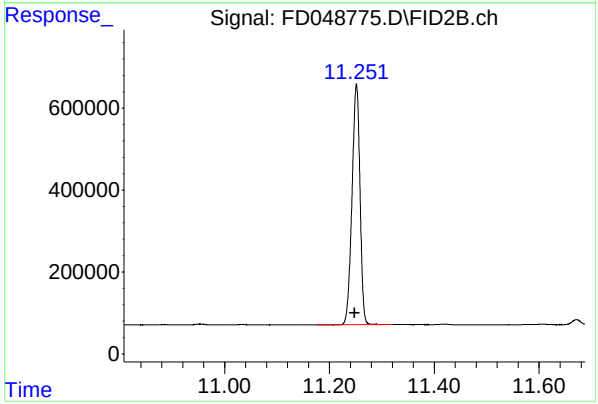
R.T.: 7.367 min
Delta R.T.: 0.000 min
Response: 10224205
Conc: 58.07 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-004




#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.002 min
Response: 6451850
Conc: 56.02 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.251 min
Delta R.T.: 0.003 min
Response: 6203268
Conc: 32.25 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048775.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 08:37
Sample : P4860-05
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.110 | 4.095 | 4.138 | PV | 528 | 3771 | 0.04% | 0.011% |
| 2 | 4.157 | 4.138 | 4.182 | PV | 3020 | 28656 | 0.28% | 0.086% |
| 3 | 4.186 | 4.182 | 4.223 | VV | 275 | 1989 | 0.02% | 0.006% |
| 4 | 4.267 | 4.244 | 4.289 | VV | 1313 | 14258 | 0.14% | 0.043% |
| 5 | 4.320 | 4.289 | 4.341 | PV | 4213 | 46256 | 0.45% | 0.140% |
| 6 | 4.351 | 4.341 | 4.358 | VV | 562 | 4536 | 0.04% | 0.014% |
| 7 | 4.376 | 4.358 | 4.390 | VV | 3069 | 30363 | 0.30% | 0.092% |
| 8 | 4.405 | 4.390 | 4.445 | VV | 5979 | 57746 | 0.56% | 0.174% |
| 9 | 4.476 | 4.445 | 4.508 | VV | 1435 | 20050 | 0.20% | 0.060% |
| 10 | 4.520 | 4.508 | 4.545 | VV | 619 | 6802 | 0.07% | 0.021% |
| 11 | 4.561 | 4.556 | 4.575 | VV | 183 | 1268 | 0.01% | 0.004% |
| 12 | 4.591 | 4.575 | 4.624 | PV | 885 | 10893 | 0.11% | 0.033% |
| 13 | 4.636 | 4.624 | 4.646 | VV | 416 | 2366 | 0.02% | 0.007% |
| 14 | 4.655 | 4.646 | 4.670 | VV | 200 | 2074 | 0.02% | 0.006% |
| 15 | 4.699 | 4.670 | 4.715 | VV | 918 | 11539 | 0.11% | 0.035% |
| 16 | 4.719 | 4.715 | 4.734 | VV | 530 | 4478 | 0.04% | 0.014% |
| 17 | 4.756 | 4.734 | 4.762 | VV | 2241 | 21766 | 0.21% | 0.066% |
| 18 | 4.778 | 4.762 | 4.811 | VV | 11824 | 133798 | 1.30% | 0.404% |
| 19 | 4.834 | 4.811 | 4.867 | VV | 2343 | 28332 | 0.28% | 0.085% |
| 20 | 4.872 | 4.867 | 4.877 | VV | 235 | 1423 | 0.01% | 0.004% |
| 21 | 4.882 | 4.877 | 4.901 | VV | 393 | 3870 | 0.04% | 0.012% |
| 22 | 4.913 | 4.901 | 4.927 | VV | 328 | 3672 | 0.04% | 0.011% |
| 23 | 4.929 | 4.927 | 4.935 | VV | 347 | 1510 | 0.01% | 0.005% |
| 24 | 4.937 | 4.935 | 4.941 | VV | 389 | 1087 | 0.01% | 0.003% |
| 25 | 4.945 | 4.941 | 4.957 | VV | 395 | 2686 | 0.03% | 0.008% |
| 26 | 4.967 | 4.957 | 4.986 | VV | 704 | 6993 | 0.07% | 0.021% |
| 27 | 5.011 | 4.986 | 5.043 | PV | 1584 | 22945 | 0.22% | 0.069% |
| 28 | 5.060 | 5.043 | 5.081 | VV | 526 | 8555 | 0.08% | 0.026% |
| 29 | 5.102 | 5.081 | 5.116 | VV | 560 | 6966 | 0.07% | 0.021% |
| 30 | 5.145 | 5.116 | 5.155 | VV | 753 | 10516 | 0.10% | 0.032% |
| 31 | 5.180 | 5.155 | 5.198 | VV | 1863 | 22362 | 0.22% | 0.067% |
| 32 | 5.219 | 5.198 | 5.244 | VV | 3594 | 38337 | 0.37% | 0.116% |
| 33 | 5.253 | 5.244 | 5.260 | VV | 396 | 2904 | 0.03% | 0.009% |
| 34 | 5.275 | 5.260 | 5.303 | VV | 847 | 11502 | 0.11% | 0.035% |
| 35 | 5.322 | 5.303 | 5.339 | VV | 496 | 8332 | 0.08% | 0.025% |
| 36 | 5.343 | 5.339 | 5.362 | VV | 542 | 6149 | 0.06% | 0.019% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.365 | 5.362 | 5.398 | VV | 507 | 6999 | 0.07% | 0.021% |
| 38 | 5.422 | 5.398 | 5.435 | PV | 520 | 6499 | 0.06% | 0.020% |
| 39 | 5.448 | 5.435 | 5.454 | VV | 583 | 4676 | 0.05% | 0.014% |
| 40 | 5.467 | 5.454 | 5.487 | VV | 619 | 7816 | 0.08% | 0.024% |
| 41 | 5.534 | 5.487 | 5.559 | VV | 586 | 14304 | 0.14% | 0.043% |
| 42 | 5.569 | 5.559 | 5.573 | VV | 327 | 2015 | 0.02% | 0.006% |
| 43 | 5.582 | 5.573 | 5.593 | VV | 346 | 2627 | 0.03% | 0.008% |
| 44 | 5.603 | 5.593 | 5.619 | VV | 300 | 3029 | 0.03% | 0.009% |
| 45 | 5.626 | 5.619 | 5.650 | VV | 359 | 5035 | 0.05% | 0.015% |
| 46 | 5.664 | 5.650 | 5.684 | VV | 506 | 6330 | 0.06% | 0.019% |
| 47 | 5.694 | 5.684 | 5.702 | VV | 513 | 4132 | 0.04% | 0.012% |
| 48 | 5.726 | 5.702 | 5.749 | VV | 1376 | 24732 | 0.24% | 0.075% |
| 49 | 5.772 | 5.749 | 5.797 | VV | 1188 | 22250 | 0.22% | 0.067% |
| 50 | 5.812 | 5.797 | 5.833 | VV | 2263 | 26557 | 0.26% | 0.080% |
| 51 | 5.839 | 5.833 | 5.859 | VV | 470 | 6171 | 0.06% | 0.019% |
| 52 | 5.883 | 5.859 | 5.907 | VV | 1118 | 18480 | 0.18% | 0.056% |
| 53 | 5.945 | 5.907 | 5.972 | VV | 1110 | 23354 | 0.23% | 0.070% |
| 54 | 5.987 | 5.972 | 5.994 | VV | 467 | 3451 | 0.03% | 0.010% |
| 55 | 6.016 | 5.994 | 6.032 | VV | 495 | 6472 | 0.06% | 0.020% |
| 56 | 6.048 | 6.032 | 6.062 | VV | 337 | 3458 | 0.03% | 0.010% |
| 57 | 6.066 | 6.062 | 6.092 | PV | 264 | 2845 | 0.03% | 0.009% |
| 58 | 6.111 | 6.092 | 6.127 | VV | 534 | 6620 | 0.06% | 0.020% |
| 59 | 6.151 | 6.127 | 6.174 | VV | 4752 | 51098 | 0.50% | 0.154% |
| 60 | 6.194 | 6.174 | 6.215 | VV | 663 | 12414 | 0.12% | 0.037% |
| 61 | 6.231 | 6.215 | 6.250 | VV | 1916 | 20613 | 0.20% | 0.062% |
| 62 | 6.267 | 6.250 | 6.284 | VV | 1209 | 12811 | 0.12% | 0.039% |
| 63 | 6.298 | 6.284 | 6.318 | VV | 2952 | 29930 | 0.29% | 0.090% |
| 64 | 6.328 | 6.318 | 6.349 | VV | 917 | 9916 | 0.10% | 0.030% |
| 65 | 6.370 | 6.349 | 6.388 | VV | 1725 | 17640 | 0.17% | 0.053% |
| 66 | 6.396 | 6.388 | 6.411 | VV | 262 | 2574 | 0.03% | 0.008% |
| 67 | 6.431 | 6.411 | 6.437 | VV | 272 | 3356 | 0.03% | 0.010% |
| 68 | 6.444 | 6.437 | 6.449 | VV | 333 | 1775 | 0.02% | 0.005% |
| 69 | 6.465 | 6.449 | 6.487 | VV | 771 | 9113 | 0.09% | 0.027% |
| 70 | 6.517 | 6.502 | 6.559 | VV | 442 | 6904 | 0.07% | 0.021% |
| 71 | 6.588 | 6.559 | 6.609 | VV | 1941 | 21195 | 0.21% | 0.064% |
| 72 | 6.617 | 6.609 | 6.624 | VV | 338 | 2689 | 0.03% | 0.008% |
| 73 | 6.641 | 6.624 | 6.661 | VV | 1933 | 28326 | 0.28% | 0.085% |
| 74 | 6.667 | 6.661 | 6.673 | VV | 1069 | 7043 | 0.07% | 0.021% |
| 75 | 6.688 | 6.673 | 6.702 | VV | 2009 | 27634 | 0.27% | 0.083% |
| 76 | 6.705 | 6.702 | 6.735 | VV | 1584 | 15960 | 0.16% | 0.048% |
| 77 | 6.766 | 6.735 | 6.803 | VV | 3337 | 48925 | 0.48% | 0.148% |
| 78 | 6.808 | 6.803 | 6.823 | VV | 407 | 2795 | 0.03% | 0.008% |
| 79 | 6.836 | 6.823 | 6.855 | VV | 497 | 7324 | 0.07% | 0.022% |
| 80 | 6.870 | 6.855 | 6.886 | VV | 797 | 8455 | 0.08% | 0.026% |
| 81 | 6.891 | 6.886 | 6.899 | VV | 251 | 1130 | 0.01% | 0.003% |
| 82 | 6.926 | 6.899 | 6.965 | VV | 7259 | 77009 | 0.75% | 0.232% |
| 83 | 6.986 | 6.965 | 7.020 | VV | 893 | 18190 | 0.18% | 0.055% |
| 84 | 7.034 | 7.020 | 7.045 | VV | 1025 | 9565 | 0.09% | 0.029% |
| 85 | 7.066 | 7.045 | 7.085 | VV | 1506 | 21712 | 0.21% | 0.065% |
| 86 | 7.100 | 7.085 | 7.109 | VV | 562 | 5447 | 0.05% | 0.016% |
| 87 | 7.129 | 7.109 | 7.142 | VV | 1058 | 15196 | 0.15% | 0.046% |
| 88 | 7.156 | 7.142 | 7.196 | VV | 1468 | 19356 | 0.19% | 0.058% |
| 89 | 7.204 | 7.196 | 7.210 | VV | 248 | 1571 | 0.02% | 0.005% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.220 | 7.210 | 7.243 | VV | 276 | 2857 | 0.03% | 0.009% |
| 91 | 7.274 | 7.256 | 7.305 | VV | 702 | 8664 | 0.08% | 0.026% |
| 92 | 7.326 | 7.305 | 7.339 | VV | 2594 | 27749 | 0.27% | 0.084% |
| 93 | 7.367 | 7.339 | 7.454 | VV | 1060504 | 10268954 | 100.00% | 30.975% |
| 94 | 7.491 | 7.454 | 7.512 | VV | 1765 | 43943 | 0.43% | 0.133% |
| 95 | 7.520 | 7.512 | 7.529 | VV | 942 | 8409 | 0.08% | 0.025% |
| 96 | 7.534 | 7.529 | 7.552 | VV | 749 | 8958 | 0.09% | 0.027% |
| 97 | 7.557 | 7.552 | 7.572 | VV | 617 | 6748 | 0.07% | 0.020% |
| 98 | 7.586 | 7.572 | 7.607 | VV | 981 | 13541 | 0.13% | 0.041% |
| 99 | 7.630 | 7.607 | 7.656 | VV | 1521 | 22142 | 0.22% | 0.067% |
| 100 | 7.659 | 7.656 | 7.669 | VV | 380 | 2497 | 0.02% | 0.008% |
| 101 | 7.684 | 7.669 | 7.702 | VV | 577 | 8044 | 0.08% | 0.024% |
| 102 | 7.721 | 7.702 | 7.776 | VV | 922 | 18512 | 0.18% | 0.056% |
| 103 | 7.802 | 7.776 | 7.814 | VV | 273 | 4059 | 0.04% | 0.012% |
| 104 | 7.835 | 7.814 | 7.863 | VV | 875 | 13858 | 0.13% | 0.042% |
| 105 | 7.873 | 7.863 | 7.892 | VV | 329 | 3479 | 0.03% | 0.010% |
| 106 | 7.932 | 7.892 | 7.957 | VV | 3881 | 48048 | 0.47% | 0.145% |
| 107 | 7.960 | 7.957 | 7.975 | VV | 682 | 6030 | 0.06% | 0.018% |
| 108 | 7.978 | 7.975 | 7.989 | VV | 635 | 3655 | 0.04% | 0.011% |
| 109 | 7.991 | 7.989 | 7.999 | VV | 419 | 2104 | 0.02% | 0.006% |
| 110 | 8.029 | 7.999 | 8.062 | VV | 1827 | 42947 | 0.42% | 0.130% |
| 111 | 8.080 | 8.062 | 8.105 | VV | 1422 | 21973 | 0.21% | 0.066% |
| 112 | 8.124 | 8.105 | 8.147 | VV | 1024 | 14427 | 0.14% | 0.044% |
| 113 | 8.161 | 8.147 | 8.187 | VV | 1346 | 15513 | 0.15% | 0.047% |
| 114 | 8.216 | 8.187 | 8.267 | VV | 602671 | 6368503 | 62.02% | 19.210% |
| 115 | 8.275 | 8.267 | 8.345 | VV | 6243 | 153143 | 1.49% | 0.462% |
| 116 | 8.350 | 8.345 | 8.369 | VV | 1971 | 23998 | 0.23% | 0.072% |
| 117 | 8.383 | 8.369 | 8.405 | VV | 1924 | 35092 | 0.34% | 0.106% |
| 118 | 8.417 | 8.405 | 8.430 | VV | 1671 | 22138 | 0.22% | 0.067% |
| 119 | 8.436 | 8.430 | 8.454 | VV | 1612 | 18872 | 0.18% | 0.057% |
| 120 | 8.470 | 8.454 | 8.513 | VV | 2327 | 52571 | 0.51% | 0.159% |
| 121 | 8.530 | 8.513 | 8.545 | VV | 1129 | 15426 | 0.15% | 0.047% |
| 122 | 8.576 | 8.545 | 8.598 | VV | 1304 | 25570 | 0.25% | 0.077% |
| 123 | 8.649 | 8.598 | 8.672 | VV | 84331 | 839599 | 8.18% | 2.533% |
| 124 | 8.681 | 8.672 | 8.697 | VV | 2733 | 34524 | 0.34% | 0.104% |
| 125 | 8.716 | 8.697 | 8.734 | VV | 2322 | 41341 | 0.40% | 0.125% |
| 126 | 8.761 | 8.734 | 8.784 | VV | 5280 | 86883 | 0.85% | 0.262% |
| 127 | 8.793 | 8.784 | 8.816 | VV | 1574 | 25216 | 0.25% | 0.076% |
| 128 | 8.833 | 8.816 | 8.857 | VV | 1582 | 23788 | 0.23% | 0.072% |
| 129 | 8.861 | 8.857 | 8.865 | VV | 594 | 2573 | 0.03% | 0.008% |
| 130 | 8.881 | 8.865 | 8.917 | VV | 1232 | 20076 | 0.20% | 0.061% |
| 131 | 8.942 | 8.917 | 8.952 | VV | 855 | 12105 | 0.12% | 0.037% |
| 132 | 8.957 | 8.952 | 9.010 | VV | 1221 | 23270 | 0.23% | 0.070% |
| 133 | 9.030 | 9.010 | 9.036 | VV | 1098 | 12537 | 0.12% | 0.038% |
| 134 | 9.048 | 9.036 | 9.064 | VV | 1113 | 15302 | 0.15% | 0.046% |
| 135 | 9.070 | 9.064 | 9.083 | VV | 584 | 6054 | 0.06% | 0.018% |
| 136 | 9.108 | 9.083 | 9.148 | VV | 2149 | 39087 | 0.38% | 0.118% |
| 137 | 9.157 | 9.148 | 9.164 | VV | 578 | 4287 | 0.04% | 0.013% |
| 138 | 9.171 | 9.164 | 9.177 | VV | 635 | 3955 | 0.04% | 0.012% |
| 139 | 9.189 | 9.177 | 9.197 | VV | 659 | 6946 | 0.07% | 0.021% |
| 140 | 9.203 | 9.197 | 9.230 | VV | 590 | 8703 | 0.08% | 0.026% |
| 141 | 9.248 | 9.230 | 9.272 | VV | 1174 | 16392 | 0.16% | 0.049% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.301 | 9.272 | 9.306 | VV | 955 | 10197 | 0.10% | 0.031% |
| 143 | 9.308 | 9.306 | 9.318 | VV | 680 | 3773 | 0.04% | 0.011% |
| 144 | 9.346 | 9.318 | 9.358 | VV | 1057 | 16545 | 0.16% | 0.050% |
| 145 | 9.380 | 9.358 | 9.430 | VV | 25568 | 352584 | 3.43% | 1.064% |
| 146 | 9.438 | 9.430 | 9.456 | VV | 1782 | 23567 | 0.23% | 0.071% |
| 147 | 9.462 | 9.456 | 9.490 | VV | 1393 | 21713 | 0.21% | 0.065% |
| 148 | 9.496 | 9.490 | 9.501 | VV | 844 | 4666 | 0.05% | 0.014% |
| 149 | 9.522 | 9.501 | 9.555 | VV | 2326 | 37298 | 0.36% | 0.113% |
| 150 | 9.593 | 9.555 | 9.600 | VV | 1105 | 19189 | 0.19% | 0.058% |
| 151 | 9.605 | 9.600 | 9.609 | VV | 940 | 4622 | 0.05% | 0.014% |
| 152 | 9.617 | 9.609 | 9.640 | VV | 1089 | 12596 | 0.12% | 0.038% |
| 153 | 9.648 | 9.640 | 9.650 | VV | 527 | 2744 | 0.03% | 0.008% |
| 154 | 9.667 | 9.650 | 9.679 | VV | 773 | 10929 | 0.11% | 0.033% |
| 155 | 9.694 | 9.679 | 9.709 | VV | 735 | 8654 | 0.08% | 0.026% |
| 156 | 9.724 | 9.709 | 9.730 | VV | 416 | 3884 | 0.04% | 0.012% |
| 157 | 9.737 | 9.730 | 9.755 | VV | 589 | 4116 | 0.04% | 0.012% |
| 158 | 9.766 | 9.755 | 9.777 | VV | 484 | 3346 | 0.03% | 0.010% |
| 159 | 9.788 | 9.777 | 9.808 | VV | 617 | 8532 | 0.08% | 0.026% |
| 160 | 9.835 | 9.808 | 9.853 | VV | 1198 | 21184 | 0.21% | 0.064% |
| 161 | 9.858 | 9.853 | 9.879 | VV | 692 | 9676 | 0.09% | 0.029% |
| 162 | 9.887 | 9.879 | 9.895 | VV | 647 | 5896 | 0.06% | 0.018% |
| 163 | 9.916 | 9.895 | 9.930 | VV | 1091 | 16035 | 0.16% | 0.048% |
| 164 | 9.942 | 9.930 | 9.969 | VV | 1038 | 17134 | 0.17% | 0.052% |
| 165 | 9.973 | 9.969 | 9.990 | VV | 696 | 7141 | 0.07% | 0.022% |
| 166 | 10.023 | 9.990 | 10.050 | VV | 2151 | 31636 | 0.31% | 0.095% |
| 167 | 10.071 | 10.050 | 10.078 | VV | 468 | 5798 | 0.06% | 0.017% |
| 168 | 10.117 | 10.078 | 10.129 | VV | 1429 | 26967 | 0.26% | 0.081% |
| 169 | 10.139 | 10.129 | 10.143 | VV | 976 | 7546 | 0.07% | 0.023% |
| 170 | 10.148 | 10.143 | 10.167 | VV | 1037 | 10938 | 0.11% | 0.033% |
| 171 | 10.205 | 10.167 | 10.237 | VV | 1373 | 36380 | 0.35% | 0.110% |
| 172 | 10.248 | 10.237 | 10.288 | VV | 1163 | 25292 | 0.25% | 0.076% |
| 173 | 10.308 | 10.288 | 10.323 | VV | 1275 | 16297 | 0.16% | 0.049% |
| 174 | 10.339 | 10.323 | 10.352 | VV | 938 | 13264 | 0.13% | 0.040% |
| 175 | 10.379 | 10.352 | 10.406 | VV | 3145 | 50093 | 0.49% | 0.151% |
| 176 | 10.426 | 10.406 | 10.457 | VV | 799 | 16986 | 0.17% | 0.051% |
| 177 | 10.463 | 10.457 | 10.490 | VV | 705 | 10758 | 0.10% | 0.032% |
| 178 | 10.510 | 10.490 | 10.524 | VV | 1110 | 14933 | 0.15% | 0.045% |
| 179 | 10.532 | 10.524 | 10.540 | VV | 889 | 7238 | 0.07% | 0.022% |
| 180 | 10.547 | 10.540 | 10.569 | VV | 833 | 12654 | 0.12% | 0.038% |
| 181 | 10.578 | 10.569 | 10.598 | VV | 1012 | 12027 | 0.12% | 0.036% |
| 182 | 10.612 | 10.598 | 10.635 | VV | 688 | 10984 | 0.11% | 0.033% |
| 183 | 10.645 | 10.635 | 10.656 | VV | 747 | 7516 | 0.07% | 0.023% |
| 184 | 10.675 | 10.656 | 10.693 | VV | 1293 | 20335 | 0.20% | 0.061% |
| 185 | 10.707 | 10.693 | 10.728 | VV | 736 | 10198 | 0.10% | 0.031% |
| 186 | 10.752 | 10.728 | 10.797 | VV | 468 | 12632 | 0.12% | 0.038% |
| 187 | 10.816 | 10.797 | 10.844 | VV | 448 | 8312 | 0.08% | 0.025% |
| 188 | 10.850 | 10.844 | 10.865 | VV | 235 | 2292 | 0.02% | 0.007% |
| 189 | 10.884 | 10.865 | 10.908 | VV | 1081 | 12873 | 0.13% | 0.039% |
| 190 | 10.931 | 10.908 | 10.935 | VV | 551 | 6797 | 0.07% | 0.021% |
| 191 | 10.953 | 10.935 | 10.986 | VV | 2399 | 30854 | 0.30% | 0.093% |
| 192 | 11.002 | 10.986 | 11.010 | VV | 543 | 5103 | 0.05% | 0.015% |
| 193 | 11.035 | 11.010 | 11.060 | VV | 1080 | 18640 | 0.18% | 0.056% |
| 194 | 11.064 | 11.060 | 11.085 | VV | 405 | 3760 | 0.04% | 0.011% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.105 | 11.085 | 11.129 | VV | 667 | 8574 | 0.08% | 0.026% |
| 196 | 11.139 | 11.129 | 11.156 | VV | 518 | 5546 | 0.05% | 0.017% |
| 197 | 11.164 | 11.156 | 11.209 | VV | 350 | 7403 | 0.07% | 0.022% |
| 198 | 11.252 | 11.209 | 11.304 | PV | 588084 | 6241693 | 60.78% | 18.827% |
| 199 | 11.305 | 11.304 | 11.322 | VV | 1391 | 13597 | 0.13% | 0.041% |
| 200 | 11.336 | 11.322 | 11.360 | VV | 1410 | 26135 | 0.25% | 0.079% |
| 201 | 11.366 | 11.360 | 11.369 | VV | 960 | 4351 | 0.04% | 0.013% |
| 202 | 11.378 | 11.369 | 11.394 | VV | 1010 | 12625 | 0.12% | 0.038% |
| 203 | 11.419 | 11.394 | 11.455 | VV | 2108 | 36182 | 0.35% | 0.109% |
| 204 | 11.459 | 11.455 | 11.462 | VV | 490 | 1924 | 0.02% | 0.006% |
| 205 | 11.467 | 11.462 | 11.475 | VV | 599 | 4212 | 0.04% | 0.013% |
| 206 | 11.477 | 11.475 | 11.484 | VV | 570 | 2506 | 0.02% | 0.008% |
| 207 | 11.491 | 11.484 | 11.503 | VV | 597 | 6116 | 0.06% | 0.018% |
| 208 | 11.509 | 11.503 | 11.516 | VV | 575 | 4307 | 0.04% | 0.013% |
| 209 | 11.543 | 11.516 | 11.555 | VV | 669 | 12429 | 0.12% | 0.037% |
| 210 | 11.582 | 11.555 | 11.588 | VV | 1214 | 16014 | 0.16% | 0.048% |
| 211 | 11.607 | 11.588 | 11.631 | VV | 1856 | 32522 | 0.32% | 0.098% |
| 212 | 11.671 | 11.631 | 11.697 | VV | 13004 | 165742 | 1.61% | 0.500% |
| 213 | 11.707 | 11.697 | 11.734 | VV | 1138 | 16012 | 0.16% | 0.048% |
| 214 | 11.753 | 11.734 | 11.760 | VV | 802 | 10087 | 0.10% | 0.030% |
| 215 | 11.775 | 11.760 | 11.785 | VV | 952 | 11190 | 0.11% | 0.034% |
| 216 | 11.833 | 11.785 | 11.846 | VV | 2091 | 43760 | 0.43% | 0.132% |
| 217 | 11.868 | 11.846 | 11.941 | VV | 30852 | 389123 | 3.79% | 1.174% |
| 218 | 11.946 | 11.941 | 11.989 | VV | 1031 | 18708 | 0.18% | 0.056% |
| 219 | 11.997 | 11.989 | 12.006 | VV | 654 | 5247 | 0.05% | 0.016% |
| 220 | 12.024 | 12.006 | 12.027 | VV | 900 | 9524 | 0.09% | 0.029% |
| 221 | 12.032 | 12.027 | 12.058 | VV | 1012 | 14269 | 0.14% | 0.043% |
| 222 | 12.069 | 12.058 | 12.074 | VV | 842 | 7026 | 0.07% | 0.021% |
| 223 | 12.091 | 12.074 | 12.098 | VV | 1325 | 15527 | 0.15% | 0.047% |
| 224 | 12.122 | 12.098 | 12.169 | VV | 7397 | 107110 | 1.04% | 0.323% |
| 225 | 12.194 | 12.169 | 12.223 | VV | 2405 | 37279 | 0.36% | 0.112% |
| 226 | 12.227 | 12.223 | 12.233 | VV | 464 | 2588 | 0.03% | 0.008% |
| 227 | 12.254 | 12.233 | 12.279 | VV | 3051 | 39801 | 0.39% | 0.120% |
| 228 | 12.304 | 12.279 | 12.379 | VV | 2819 | 65701 | 0.64% | 0.198% |
| 229 | 12.395 | 12.379 | 12.437 | VV | 716 | 12538 | 0.12% | 0.038% |
| 230 | 12.450 | 12.437 | 12.461 | PV | 307 | 3265 | 0.03% | 0.010% |
| 231 | 12.487 | 12.461 | 12.493 | VV | 756 | 10455 | 0.10% | 0.032% |
| 232 | 12.527 | 12.493 | 12.565 | VV | 812 | 23400 | 0.23% | 0.071% |
| 233 | 12.598 | 12.565 | 12.635 | VV | 2184 | 51880 | 0.51% | 0.156% |
| 234 | 12.654 | 12.635 | 12.661 | VV | 1573 | 19528 | 0.19% | 0.059% |
| 235 | 12.692 | 12.661 | 12.724 | VV | 100807 | 1213375 | 11.82% | 3.660% |
| 236 | 12.739 | 12.724 | 12.749 | VV | 1030 | 12148 | 0.12% | 0.037% |
| 237 | 12.754 | 12.749 | 12.782 | VV | 907 | 14649 | 0.14% | 0.044% |
| 238 | 12.793 | 12.782 | 12.808 | VV | 721 | 9451 | 0.09% | 0.029% |
| 239 | 12.823 | 12.808 | 12.840 | VV | 719 | 10451 | 0.10% | 0.032% |
| 240 | 12.861 | 12.840 | 12.869 | VV | 1067 | 13207 | 0.13% | 0.040% |
| 241 | 12.872 | 12.869 | 12.894 | VV | 885 | 12575 | 0.12% | 0.038% |
| 242 | 12.917 | 12.894 | 12.951 | VV | 7573 | 106517 | 1.04% | 0.321% |
| 243 | 12.990 | 12.951 | 13.017 | VV | 975 | 28109 | 0.27% | 0.085% |
| 244 | 13.023 | 13.017 | 13.035 | VV | 611 | 5891 | 0.06% | 0.018% |
| 245 | 13.061 | 13.035 | 13.070 | VV | 1293 | 18760 | 0.18% | 0.057% |
| 246 | 13.092 | 13.070 | 13.133 | VV | 9102 | 137582 | 1.34% | 0.415% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 13.140 | 13.133 | 13.170 | VV | 1395 | 25817 | 0.25% | 0.078% |
| 248 | 13.191 | 13.170 | 13.196 | VV | 948 | 12298 | 0.12% | 0.037% |
| 249 | 13.203 | 13.196 | 13.230 | VV | 937 | 16024 | 0.16% | 0.048% |
| 250 | 13.264 | 13.230 | 13.280 | VV | 1061 | 24776 | 0.24% | 0.075% |
| 251 | 13.287 | 13.280 | 13.308 | VV | 852 | 13235 | 0.13% | 0.040% |
| 252 | 13.314 | 13.308 | 13.332 | VV | 906 | 10890 | 0.11% | 0.033% |
| 253 | 13.349 | 13.332 | 13.370 | VV | 851 | 16972 | 0.17% | 0.051% |
| 254 | 13.394 | 13.370 | 13.421 | VV | 2171 | 38363 | 0.37% | 0.116% |
| 255 | 13.447 | 13.421 | 13.495 | VV | 2797 | 53153 | 0.52% | 0.160% |
| 256 | 13.501 | 13.495 | 13.555 | VV | 740 | 13742 | 0.13% | 0.041% |
| 257 | 13.560 | 13.555 | 13.572 | VV | 269 | 2167 | 0.02% | 0.007% |
| 258 | 13.576 | 13.572 | 13.599 | VV | 381 | 2735 | 0.03% | 0.008% |
| 259 | 13.630 | 13.599 | 13.636 | PV | 246 | 3147 | 0.03% | 0.009% |
| 260 | 13.657 | 13.636 | 13.687 | VV | 483 | 10323 | 0.10% | 0.031% |
| 261 | 13.692 | 13.687 | 13.743 | VV | 471 | 9272 | 0.09% | 0.028% |
| 262 | 13.779 | 13.743 | 13.801 | VV | 581 | 11784 | 0.11% | 0.036% |
| 263 | 13.805 | 13.801 | 13.807 | VV | 477 | 1485 | 0.01% | 0.004% |
| 264 | 13.815 | 13.807 | 13.820 | VV | 529 | 3540 | 0.03% | 0.011% |
| 265 | 13.839 | 13.820 | 13.845 | VV | 1369 | 15693 | 0.15% | 0.047% |
| 266 | 13.851 | 13.845 | 13.864 | VV | 1317 | 13126 | 0.13% | 0.040% |
| 267 | 13.878 | 13.864 | 13.902 | VV | 2552 | 36505 | 0.36% | 0.110% |
| 268 | 13.906 | 13.902 | 13.919 | VV | 856 | 7917 | 0.08% | 0.024% |
| 269 | 13.923 | 13.919 | 13.949 | VV | 867 | 12583 | 0.12% | 0.038% |
| 270 | 13.954 | 13.949 | 13.976 | VV | 616 | 9150 | 0.09% | 0.028% |
| 271 | 13.981 | 13.976 | 13.989 | VV | 656 | 4702 | 0.05% | 0.014% |
| 272 | 14.004 | 13.989 | 14.030 | VV | 988 | 17442 | 0.17% | 0.053% |
| 273 | 14.037 | 14.030 | 14.070 | VV | 807 | 12708 | 0.12% | 0.038% |
| 274 | 14.099 | 14.070 | 14.122 | VV | 934 | 22172 | 0.22% | 0.067% |
| 275 | 14.128 | 14.122 | 14.137 | VV | 804 | 5905 | 0.06% | 0.018% |
| 276 | 14.165 | 14.137 | 14.184 | VV | 1118 | 24147 | 0.24% | 0.073% |
| 277 | 14.191 | 14.184 | 14.199 | VV | 857 | 6677 | 0.07% | 0.020% |
| 278 | 14.218 | 14.199 | 14.234 | VV | 1039 | 16932 | 0.16% | 0.051% |
| 279 | 14.237 | 14.234 | 14.240 | VV | 601 | 2150 | 0.02% | 0.006% |
| 280 | 14.254 | 14.240 | 14.278 | VV | 847 | 14000 | 0.14% | 0.042% |
| 281 | 14.316 | 14.278 | 14.334 | VV | 1226 | 28199 | 0.27% | 0.085% |
| 282 | 14.351 | 14.334 | 14.373 | VV | 973 | 18475 | 0.18% | 0.056% |
| 283 | 14.387 | 14.373 | 14.422 | VV | 1075 | 19779 | 0.19% | 0.060% |
| 284 | 14.426 | 14.422 | 14.435 | VV | 426 | 2439 | 0.02% | 0.007% |
| 285 | 14.502 | 14.435 | 14.526 | VV | 2693 | 76289 | 0.74% | 0.230% |
| 286 | 14.541 | 14.526 | 14.567 | VV | 2916 | 45213 | 0.44% | 0.136% |
| 287 | 14.584 | 14.567 | 14.614 | VV | 1560 | 24291 | 0.24% | 0.073% |
| 288 | 14.624 | 14.614 | 14.648 | VV | 536 | 5922 | 0.06% | 0.018% |
| 289 | 14.654 | 14.648 | 14.661 | VV | 312 | 1405 | 0.01% | 0.004% |
| 290 | 14.668 | 14.661 | 14.688 | VV | 549 | 4102 | 0.04% | 0.012% |
| 291 | 14.717 | 14.688 | 14.755 | PV | 881 | 19357 | 0.19% | 0.058% |
| 292 | 14.776 | 14.755 | 14.788 | VV | 297 | 3741 | 0.04% | 0.011% |
| 293 | 14.800 | 14.788 | 14.806 | VV | 452 | 3338 | 0.03% | 0.010% |
| 294 | 14.811 | 14.806 | 14.820 | VV | 454 | 2692 | 0.03% | 0.008% |
| 295 | 14.824 | 14.820 | 14.830 | VV | 401 | 2280 | 0.02% | 0.007% |
| 296 | 14.835 | 14.830 | 14.868 | VV | 450 | 6959 | 0.07% | 0.021% |
| 297 | 14.916 | 14.868 | 15.042 | VV | 33829 | 583703 | 5.68% | 1.761% |
| 298 | 15.070 | 15.042 | 15.092 | VV | 2647 | 43931 | 0.43% | 0.133% |
| 299 | 15.109 | 15.092 | 15.137 | VV | 905 | 15020 | 0.15% | 0.045% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 15.155 | 15.137 | 15.174 | VV | 815 | 13409 | 0.13% | 0.040% |
| 301 | 15.191 | 15.174 | 15.204 | VV | 716 | 10179 | 0.10% | 0.031% |
| 302 | 15.210 | 15.204 | 15.238 | VV | 619 | 10436 | 0.10% | 0.031% |
| 303 | 15.251 | 15.238 | 15.260 | VV | 612 | 7461 | 0.07% | 0.023% |
| 304 | 15.265 | 15.260 | 15.278 | VV | 633 | 5825 | 0.06% | 0.018% |
| 305 | 15.285 | 15.278 | 15.310 | VV | 510 | 8756 | 0.09% | 0.026% |
| 306 | 15.323 | 15.310 | 15.341 | VV | 740 | 9319 | 0.09% | 0.028% |
| 307 | 15.366 | 15.341 | 15.389 | VV | 682 | 14129 | 0.14% | 0.043% |
| 308 | 15.442 | 15.389 | 15.487 | VV | 1218 | 40700 | 0.40% | 0.123% |
| 309 | 15.491 | 15.487 | 15.497 | VV | 376 | 2177 | 0.02% | 0.007% |
| 310 | 15.519 | 15.497 | 15.537 | VV | 1227 | 17267 | 0.17% | 0.052% |
| 311 | 15.559 | 15.537 | 15.580 | VV | 2104 | 26712 | 0.26% | 0.081% |
| 312 | 15.614 | 15.580 | 15.688 | VV | 908 | 23885 | 0.23% | 0.072% |
| 313 | 15.725 | 15.688 | 15.749 | PV | 399 | 5440 | 0.05% | 0.016% |
| 314 | 15.754 | 15.749 | 15.764 | VV | 236 | 1289 | 0.01% | 0.004% |
| 315 | 15.780 | 15.764 | 15.787 | VV | 130 | 1311 | 0.01% | 0.004% |
| 316 | 15.805 | 15.796 | 15.815 | VV | 201 | 1184 | 0.01% | 0.004% |
| 317 | 15.823 | 15.815 | 15.830 | PV | 259 | 1252 | 0.01% | 0.004% |
| 318 | 15.832 | 15.830 | 15.862 | VV | 197 | 2433 | 0.02% | 0.007% |
| 319 | 15.926 | 15.862 | 15.989 | VV | 3824 | 92395 | 0.90% | 0.279% |
| 320 | 15.990 | 15.989 | 15.994 | VV | 778 | 2290 | 0.02% | 0.007% |
| 321 | 16.025 | 15.994 | 16.092 | VV | 2799 | 82996 | 0.81% | 0.250% |
| 322 | 16.113 | 16.092 | 16.138 | VV | 1467 | 25115 | 0.24% | 0.076% |
| 323 | 16.167 | 16.138 | 16.224 | VV | 1429 | 36892 | 0.36% | 0.111% |
| 324 | 16.228 | 16.224 | 16.244 | VV | 611 | 5416 | 0.05% | 0.016% |
| 325 | 16.250 | 16.244 | 16.258 | VV | 442 | 3042 | 0.03% | 0.009% |
| 326 | 16.261 | 16.258 | 16.269 | VV | 378 | 2274 | 0.02% | 0.007% |
| 327 | 16.295 | 16.269 | 16.318 | VV | 1226 | 19211 | 0.19% | 0.058% |
| 328 | 16.340 | 16.318 | 16.379 | VV | 1829 | 37438 | 0.36% | 0.113% |
| 329 | 16.412 | 16.379 | 16.448 | VV | 1945 | 45631 | 0.44% | 0.138% |
| 330 | 16.469 | 16.448 | 16.484 | VV | 1349 | 21219 | 0.21% | 0.064% |
| 331 | 16.502 | 16.484 | 16.522 | VV | 2494 | 36756 | 0.36% | 0.111% |
| 332 | 16.546 | 16.522 | 16.569 | VV | 7524 | 105714 | 1.03% | 0.319% |
| 333 | 16.575 | 16.569 | 16.604 | VV | 1163 | 16372 | 0.16% | 0.049% |
| 334 | 16.614 | 16.604 | 16.619 | VV | 444 | 3613 | 0.04% | 0.011% |
| 335 | 16.630 | 16.619 | 16.641 | VV | 526 | 5155 | 0.05% | 0.016% |
| 336 | 16.647 | 16.641 | 16.682 | VV | 435 | 7001 | 0.07% | 0.021% |
| 337 | 16.703 | 16.682 | 16.740 | VV | 397 | 8398 | 0.08% | 0.025% |
| 338 | 16.766 | 16.740 | 16.787 | PV | 392 | 6360 | 0.06% | 0.019% |
| 339 | 16.800 | 16.787 | 16.821 | VV | 576 | 8856 | 0.09% | 0.027% |
| 340 | 16.833 | 16.821 | 16.839 | VV | 308 | 2761 | 0.03% | 0.008% |
| 341 | 16.865 | 16.839 | 16.915 | VV | 2631 | 64593 | 0.63% | 0.195% |
| 342 | 16.948 | 16.915 | 16.977 | VV | 2528 | 48181 | 0.47% | 0.145% |
| 343 | 16.997 | 16.977 | 17.014 | VV | 465 | 7439 | 0.07% | 0.022% |
| 344 | 17.031 | 17.014 | 17.048 | VV | 640 | 9790 | 0.10% | 0.030% |
| 345 | 17.063 | 17.048 | 17.073 | VV | 775 | 8488 | 0.08% | 0.026% |
| 346 | 17.085 | 17.073 | 17.108 | VV | 584 | 7639 | 0.07% | 0.023% |
| 347 | 17.124 | 17.108 | 17.134 | VV | 282 | 3391 | 0.03% | 0.010% |
| 348 | 17.186 | 17.134 | 17.212 | VV | 511 | 14370 | 0.14% | 0.043% |
| 349 | 17.239 | 17.212 | 17.247 | VV | 425 | 5591 | 0.05% | 0.017% |
| 350 | 17.250 | 17.247 | 17.260 | VV | 266 | 1342 | 0.01% | 0.004% |
| 351 | 17.354 | 17.260 | 17.364 | PV | 1134 | 37241 | 0.36% | 0.112% |

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|---|---|---|---|---|---|---|---|---|
| 352 | 17.384 | 17.364 | 17.410 | VV | 2852 | 43181 | 0.42% | 0.130% |
| 353 | 17.425 | 17.410 | 17.430 | VV | 485 | 4029 | 0.04% | 0.012% |
| 354 | 17.436 | 17.430 | 17.441 | VV | 364 | 2060 | 0.02% | 0.006% |
| 355 | 17.471 | 17.441 | 17.498 | VV | 2200 | 36567 | 0.36% | 0.110% |
| 356 | 17.503 | 17.498 | 17.515 | VV | 458 | 3356 | 0.03% | 0.010% |
| 357 | 17.551 | 17.515 | 17.618 | VV | 1542 | 35829 | 0.35% | 0.108% |
| 358 | 17.644 | 17.630 | 17.650 | PV | 209 | 1317 | 0.01% | 0.004% |
| 359 | 17.654 | 17.650 | 17.665 | VV | 256 | 1720 | 0.02% | 0.005% |
| 360 | 17.702 | 17.665 | 17.713 | VV | 3660 | 54566 | 0.53% | 0.165% |
| 361 | 17.736 | 17.713 | 17.788 | VV | 20233 | 375741 | 3.66% | 1.133% |
| 362 | 17.805 | 17.788 | 17.867 | VV | 4396 | 91763 | 0.89% | 0.277% |
| 363 | 17.886 | 17.867 | 17.925 | VV | 970 | 21902 | 0.21% | 0.066% |
| 364 | 17.931 | 17.925 | 17.949 | VV | 541 | 5680 | 0.06% | 0.017% |
| 365 | 17.957 | 17.949 | 17.976 | VV | 465 | 4211 | 0.04% | 0.013% |
| 366 | 18.021 | 17.976 | 18.082 | PV | 1452 | 33903 | 0.33% | 0.102% |
| 367 | 18.157 | 18.103 | 18.175 | PV | 815 | 4997 | 0.05% | 0.015% |
| 368 | 18.182 | 18.175 | 18.192 | VV | 310 | 1568 | 0.02% | 0.005% |

Sum of corrected areas: 33152245

Aromatic EPH 111424.M Tue Nov 19 11:05:47 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.3 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 7:59 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FC067815.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.47 | J | 1 | 0.24 | 0.68 | mg/kg | FC067815.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.32 | J | 1 | 0.31 | 1.02 | mg/kg | FC067815.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.81 | U | 1 | 0.81 | 1.35 | mg/kg | FC067815.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 6.73 | | 1 | 1.83 | 2.03 | mg/kg | FC067815.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FD048774.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 3.33 | | 1 | 0.35 | 1.02 | mg/kg | FD048774.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.81 | | 1 | 0.98 | 1.69 | mg/kg | FD048774.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.37 | J | 1 | 2.03 | 2.71 | mg/kg | FD048774.D |
| Total AliphaticEPH | Total AliphaticEPH | 7.52 | | | 3.58 | 6.10 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 7.51 | | | 3.65 | 6.10 | mg/kg | |
| Total EPH | Total EPH | 15.0 | | | 7.23 | 12.2 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.3 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067815.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.47 | J | 0.24 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.32 | J | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.81 | U | 0.81 | 1.35 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 6.73 | | 1.83 | 2.03 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 27.3 | | 40 - 140 | 55% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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

# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-06 | Acq On: | 19 Nov 2024 07:59 |
| Client Sample ID: | PH2-BOT-009 | Operator: | YP/AJ |
| Data file: | FC067815.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 25 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 459734 | 2.773 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 1191173 | 6.991 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 799488 | 4.713 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 681824 | 4.335 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 12031680 | 99.344 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 15163899 | 118.156 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.941 | 12.941 | 3966575 | 27.33 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 3132219 | 18.812 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067815.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 07:59
Operator : YP/AJ
Sample : P4860-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-009

Integration File: sample.E
Quant Time: Nov 19 10:47:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 12.941 | 3966575 | 27.325 ug/ml |
| Spiked Amount 50.000 | | Recovery = 54.65% | |
| Target Compounds | | | |

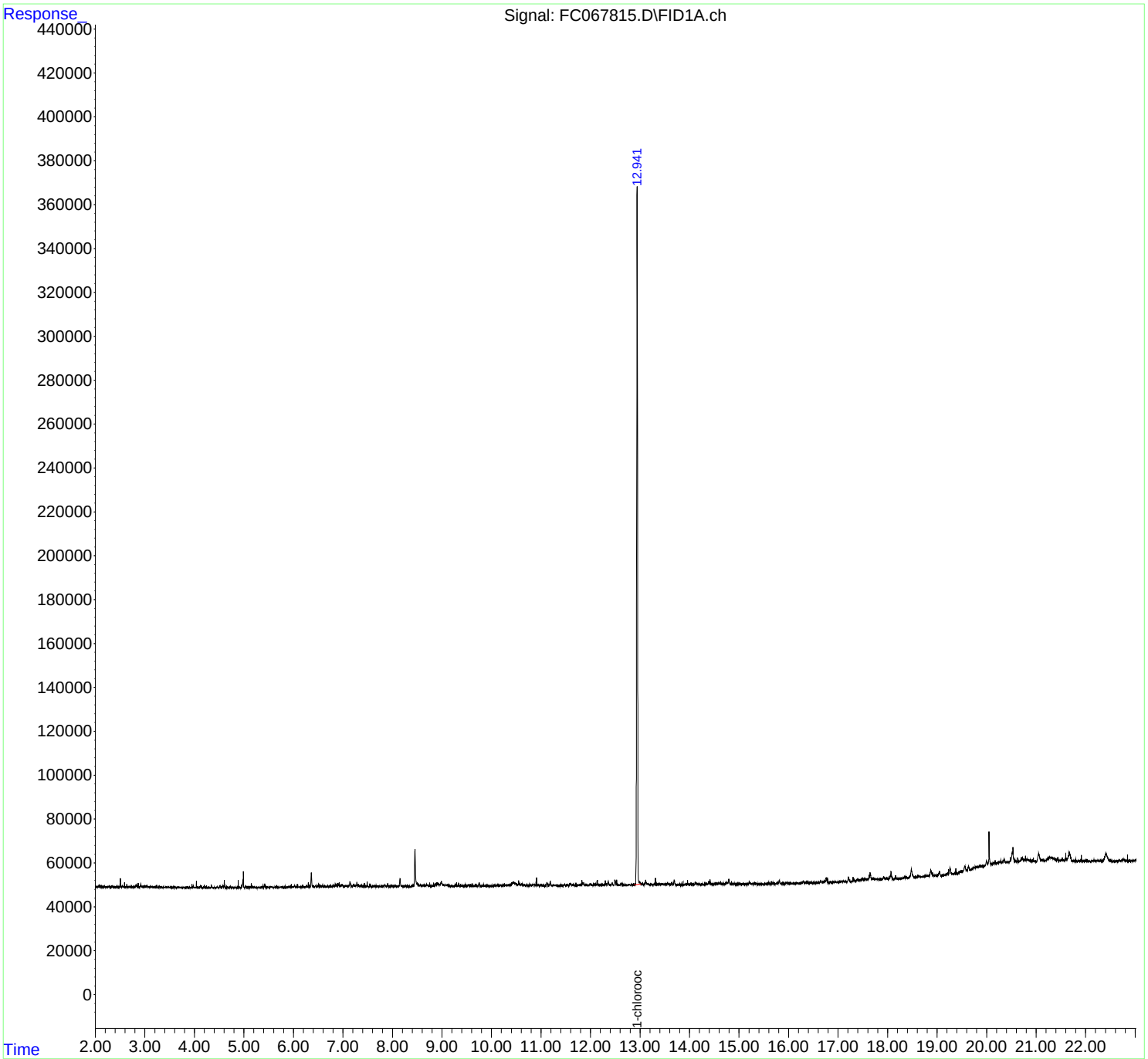
(f)=RT Delta > 1/2 Window (m)=manual int.

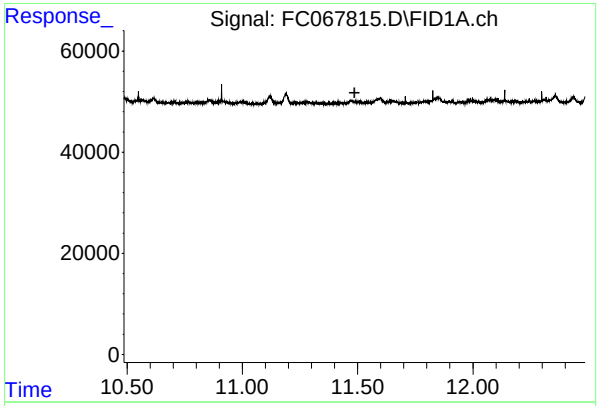
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067815.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 07:59
Operator : YP/AJ
Sample : P4860-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-009

Integration File: sample.E
Quant Time: Nov 19 10:47:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

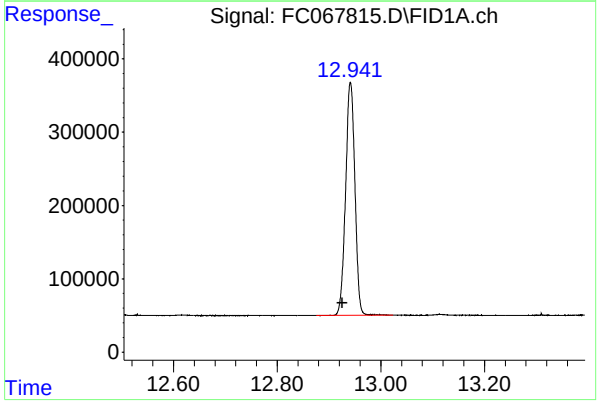





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-009




#12 1-chlorooctadecane (SURR)

R.T.: 12.941 min
Delta R.T.: 0.016 min
Response: 3966575
Conc: 27.33 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067815.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 07:59
Sample : P4860-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.238 | 3.224 | 3.258 | BV | 344 | 692 | 0.02% | 0.003% |
| 2 | 3.288 | 3.258 | 3.355 | PV | 260 | 5120 | 0.13% | 0.025% |
| 3 | 3.438 | 3.355 | 3.469 | VV | 197 | 7384 | 0.18% | 0.036% |
| 4 | 3.480 | 3.469 | 3.551 | VV | 191 | 5685 | 0.14% | 0.028% |
| 5 | 3.564 | 3.551 | 3.582 | VV | 162 | 2163 | 0.05% | 0.011% |
| 6 | 3.594 | 3.582 | 3.625 | VV | 261 | 3132 | 0.08% | 0.015% |
| 7 | 3.648 | 3.625 | 3.668 | PV | 110 | 1488 | 0.04% | 0.007% |
| 8 | 3.678 | 3.668 | 3.691 | VV | 173 | 842 | 0.02% | 0.004% |
| 9 | 3.724 | 3.691 | 3.754 | VV | 72 | 1575 | 0.04% | 0.008% |
| 10 | 3.777 | 3.754 | 3.793 | VV | 176 | 2127 | 0.05% | 0.010% |
| 11 | 3.814 | 3.793 | 3.838 | VV | 143 | 1989 | 0.05% | 0.010% |
| 12 | 3.861 | 3.838 | 3.911 | PV | 189 | 3145 | 0.08% | 0.015% |
| 13 | 3.922 | 3.911 | 3.937 | VV | 54 | 627 | 0.02% | 0.003% |
| 14 | 3.953 | 3.937 | 3.964 | VV | 480 | 3408 | 0.08% | 0.017% |
| 15 | 3.980 | 3.964 | 4.026 | VV | 705 | 8167 | 0.20% | 0.040% |
| 16 | 4.041 | 4.026 | 4.072 | VV | 1119 | 4587 | 0.11% | 0.022% |
| 17 | 4.127 | 4.072 | 4.172 | VV | 626 | 13470 | 0.33% | 0.066% |
| 18 | 4.204 | 4.172 | 4.238 | VV | 556 | 4718 | 0.12% | 0.023% |
| 19 | 4.248 | 4.238 | 4.294 | VV | 409 | 3377 | 0.08% | 0.016% |
| 20 | 4.300 | 4.294 | 4.318 | VV | 95 | 897 | 0.02% | 0.004% |
| 21 | 4.350 | 4.318 | 4.426 | PV | 617 | 12838 | 0.32% | 0.062% |
| 22 | 4.457 | 4.426 | 4.486 | VV | 320 | 6948 | 0.17% | 0.034% |
| 23 | 4.517 | 4.486 | 4.540 | VV | 965 | 12843 | 0.32% | 0.062% |
| 24 | 4.573 | 4.540 | 4.587 | VV | 841 | 11797 | 0.29% | 0.057% |
| 25 | 4.604 | 4.587 | 4.636 | VV | 2131 | 15697 | 0.39% | 0.076% |
| 26 | 4.647 | 4.636 | 4.677 | VV | 208 | 3141 | 0.08% | 0.015% |
| 27 | 4.718 | 4.677 | 4.728 | VV | 214 | 4500 | 0.11% | 0.022% |
| 28 | 4.736 | 4.728 | 4.805 | VV | 147 | 3918 | 0.10% | 0.019% |
| 29 | 4.823 | 4.805 | 4.855 | VV | 141 | 1709 | 0.04% | 0.008% |
| 30 | 4.869 | 4.855 | 4.881 | PV | 85 | 760 | 0.02% | 0.004% |
| 31 | 4.885 | 4.881 | 4.925 | PV | 1465 | 6732 | 0.17% | 0.033% |
| 32 | 4.989 | 4.925 | 5.010 | VV | 5002 | 47996 | 1.19% | 0.233% |
| 33 | 5.037 | 5.010 | 5.098 | VV | 666 | 10799 | 0.27% | 0.053% |
| 34 | 5.108 | 5.098 | 5.119 | VV | 482 | 1919 | 0.05% | 0.009% |
| 35 | 5.151 | 5.119 | 5.194 | VV | 748 | 8102 | 0.20% | 0.039% |
| 36 | 5.204 | 5.194 | 5.215 | VV | 226 | 1744 | 0.04% | 0.008% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.221 | 5.215 | 5.241 | VV | 149 | 1141 | 0.03% | 0.006% |
| 38 | 5.256 | 5.241 | 5.305 | VV | 195 | 3369 | 0.08% | 0.016% |
| 39 | 5.351 | 5.305 | 5.365 | VV | 167 | 3911 | 0.10% | 0.019% |
| 40 | 5.383 | 5.365 | 5.404 | VV | 678 | 7318 | 0.18% | 0.036% |
| 41 | 5.424 | 5.404 | 5.463 | VV | 1322 | 16955 | 0.42% | 0.082% |
| 42 | 5.475 | 5.463 | 5.521 | VV | 398 | 7285 | 0.18% | 0.035% |
| 43 | 5.563 | 5.521 | 5.582 | VV | 346 | 7509 | 0.19% | 0.037% |
| 44 | 5.587 | 5.582 | 5.597 | VV | 179 | 1429 | 0.04% | 0.007% |
| 45 | 5.607 | 5.597 | 5.651 | VV | 236 | 4711 | 0.12% | 0.023% |
| 46 | 5.669 | 5.651 | 5.696 | VV | 323 | 5932 | 0.15% | 0.029% |
| 47 | 5.751 | 5.696 | 5.805 | VV | 263 | 10449 | 0.26% | 0.051% |
| 48 | 5.831 | 5.805 | 5.854 | VV | 185 | 2544 | 0.06% | 0.012% |
| 49 | 5.887 | 5.854 | 5.902 | VV | 193 | 3686 | 0.09% | 0.018% |
| 50 | 5.934 | 5.902 | 5.964 | VV | 406 | 10038 | 0.25% | 0.049% |
| 51 | 5.978 | 5.964 | 6.003 | VV | 376 | 5632 | 0.14% | 0.027% |
| 52 | 6.022 | 6.003 | 6.051 | VV | 676 | 9881 | 0.25% | 0.048% |
| 53 | 6.079 | 6.051 | 6.127 | VV | 773 | 11587 | 0.29% | 0.056% |
| 54 | 6.151 | 6.127 | 6.214 | VV | 509 | 11271 | 0.28% | 0.055% |
| 55 | 6.222 | 6.214 | 6.231 | VV | 183 | 1507 | 0.04% | 0.007% |
| 56 | 6.254 | 6.231 | 6.281 | VV | 325 | 7678 | 0.19% | 0.037% |
| 57 | 6.301 | 6.281 | 6.310 | VV | 884 | 5021 | 0.12% | 0.024% |
| 58 | 6.322 | 6.310 | 6.333 | VV | 699 | 4495 | 0.11% | 0.022% |
| 59 | 6.362 | 6.333 | 6.425 | VV | 6554 | 78959 | 1.96% | 0.384% |
| 60 | 6.447 | 6.425 | 6.464 | VV | 796 | 11390 | 0.28% | 0.055% |
| 61 | 6.482 | 6.464 | 6.493 | VV | 605 | 7729 | 0.19% | 0.038% |
| 62 | 6.511 | 6.493 | 6.530 | VV | 1241 | 16220 | 0.40% | 0.079% |
| 63 | 6.545 | 6.530 | 6.561 | VV | 530 | 8101 | 0.20% | 0.039% |
| 64 | 6.583 | 6.561 | 6.619 | VV | 714 | 15440 | 0.38% | 0.075% |
| 65 | 6.640 | 6.619 | 6.651 | VV | 465 | 7208 | 0.18% | 0.035% |
| 66 | 6.664 | 6.651 | 6.674 | VV | 372 | 5053 | 0.13% | 0.025% |
| 67 | 6.685 | 6.674 | 6.717 | VV | 448 | 9807 | 0.24% | 0.048% |
| 68 | 6.726 | 6.717 | 6.776 | VV | 454 | 13556 | 0.34% | 0.066% |
| 69 | 6.804 | 6.776 | 6.830 | VV | 825 | 16326 | 0.41% | 0.079% |
| 70 | 6.855 | 6.830 | 6.884 | VV | 1120 | 24117 | 0.60% | 0.117% |
| 71 | 6.888 | 6.884 | 6.894 | VV | 1040 | 4713 | 0.12% | 0.023% |
| 72 | 6.906 | 6.894 | 6.943 | VV | 880 | 22615 | 0.56% | 0.110% |
| 73 | 6.982 | 6.943 | 7.008 | VV | 1353 | 30897 | 0.77% | 0.150% |
| 74 | 7.035 | 7.008 | 7.048 | VV | 526 | 10749 | 0.27% | 0.052% |
| 75 | 7.079 | 7.048 | 7.120 | VV | 577 | 21299 | 0.53% | 0.104% |
| 76 | 7.144 | 7.120 | 7.174 | VV | 2528 | 36852 | 0.92% | 0.179% |
| 77 | 7.220 | 7.174 | 7.233 | VV | 1051 | 20202 | 0.50% | 0.098% |
| 78 | 7.250 | 7.233 | 7.263 | VV | 805 | 11598 | 0.29% | 0.056% |
| 79 | 7.283 | 7.263 | 7.331 | VV | 1556 | 31752 | 0.79% | 0.154% |
| 80 | 7.348 | 7.331 | 7.360 | VV | 697 | 9888 | 0.25% | 0.048% |
| 81 | 7.374 | 7.360 | 7.424 | VV | 791 | 16340 | 0.41% | 0.079% |
| 82 | 7.437 | 7.424 | 7.476 | VV | 537 | 9214 | 0.23% | 0.045% |
| 83 | 7.489 | 7.476 | 7.520 | VV | 922 | 7460 | 0.19% | 0.036% |
| 84 | 7.545 | 7.520 | 7.570 | VV | 1205 | 15334 | 0.38% | 0.075% |
| 85 | 7.635 | 7.570 | 7.664 | VV | 395 | 16098 | 0.40% | 0.078% |
| 86 | 7.676 | 7.664 | 7.692 | VV | 320 | 3839 | 0.10% | 0.019% |
| 87 | 7.705 | 7.692 | 7.728 | VV | 344 | 6212 | 0.15% | 0.030% |
| 88 | 7.736 | 7.728 | 7.751 | VV | 298 | 3319 | 0.08% | 0.016% |
| 89 | 7.762 | 7.751 | 7.784 | VV | 265 | 3959 | 0.10% | 0.019% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.803 | 7.784 | 7.824 | VV | 404 | 5657 | 0.14% | 0.028% |
| 91 | 7.849 | 7.824 | 7.882 | VV | 1070 | 15799 | 0.39% | 0.077% |
| 92 | 7.906 | 7.882 | 7.928 | VV | 1590 | 19524 | 0.49% | 0.095% |
| 93 | 7.942 | 7.928 | 7.963 | VV | 330 | 5477 | 0.14% | 0.027% |
| 94 | 7.974 | 7.963 | 8.041 | VV | 321 | 11498 | 0.29% | 0.056% |
| 95 | 8.059 | 8.041 | 8.131 | VV | 591 | 15689 | 0.39% | 0.076% |
| 96 | 8.153 | 8.131 | 8.224 | VV | 3823 | 49231 | 1.22% | 0.239% |
| 97 | 8.263 | 8.224 | 8.286 | VV | 504 | 12318 | 0.31% | 0.060% |
| 98 | 8.301 | 8.286 | 8.328 | VV | 399 | 5246 | 0.13% | 0.026% |
| 99 | 8.346 | 8.328 | 8.365 | VV | 314 | 3653 | 0.09% | 0.018% |
| 100 | 8.387 | 8.365 | 8.398 | VV | 479 | 5877 | 0.15% | 0.029% |
| 101 | 8.411 | 8.398 | 8.430 | VV | 537 | 8178 | 0.20% | 0.040% |
| 102 | 8.456 | 8.430 | 8.554 | VV | 17103 | 245392 | 6.10% | 1.193% |
| 103 | 8.563 | 8.554 | 8.586 | VV | 651 | 11702 | 0.29% | 0.057% |
| 104 | 8.611 | 8.586 | 8.626 | VV | 760 | 14417 | 0.36% | 0.070% |
| 105 | 8.641 | 8.626 | 8.673 | VV | 706 | 16003 | 0.40% | 0.078% |
| 106 | 8.692 | 8.673 | 8.733 | VV | 929 | 22428 | 0.56% | 0.109% |
| 107 | 8.754 | 8.733 | 8.780 | VV | 1141 | 10043 | 0.25% | 0.049% |
| 108 | 8.806 | 8.780 | 8.821 | VV | 492 | 7935 | 0.20% | 0.039% |
| 109 | 8.830 | 8.821 | 8.845 | VV | 1030 | 6243 | 0.16% | 0.030% |
| 110 | 8.873 | 8.845 | 8.890 | VV | 1429 | 22116 | 0.55% | 0.108% |
| 111 | 8.909 | 8.890 | 8.961 | VV | 1310 | 41873 | 1.04% | 0.204% |
| 112 | 8.990 | 8.961 | 9.040 | VV | 2377 | 54825 | 1.36% | 0.267% |
| 113 | 9.060 | 9.040 | 9.083 | VV | 923 | 17457 | 0.43% | 0.085% |
| 114 | 9.107 | 9.083 | 9.134 | VV | 713 | 18139 | 0.45% | 0.088% |
| 115 | 9.150 | 9.134 | 9.174 | VV | 576 | 10152 | 0.25% | 0.049% |
| 116 | 9.220 | 9.174 | 9.238 | VV | 313 | 9719 | 0.24% | 0.047% |
| 117 | 9.273 | 9.238 | 9.317 | VV | 584 | 18083 | 0.45% | 0.088% |
| 118 | 9.339 | 9.317 | 9.371 | VV | 1077 | 16383 | 0.41% | 0.080% |
| 119 | 9.376 | 9.371 | 9.458 | VV | 365 | 11866 | 0.30% | 0.058% |
| 120 | 9.480 | 9.458 | 9.503 | VV | 520 | 9003 | 0.22% | 0.044% |
| 121 | 9.531 | 9.503 | 9.644 | VV | 868 | 27471 | 0.68% | 0.134% |
| 122 | 9.670 | 9.644 | 9.714 | VV | 479 | 10464 | 0.26% | 0.051% |
| 123 | 9.751 | 9.714 | 9.804 | VV | 1604 | 25415 | 0.63% | 0.124% |
| 124 | 9.840 | 9.804 | 9.865 | VV | 470 | 8321 | 0.21% | 0.040% |
| 125 | 9.901 | 9.865 | 9.911 | VV | 397 | 6310 | 0.16% | 0.031% |
| 126 | 9.919 | 9.911 | 9.978 | VV | 271 | 4637 | 0.12% | 0.023% |
| 127 | 10.003 | 9.978 | 10.014 | PV | 188 | 1681 | 0.04% | 0.008% |
| 128 | 10.030 | 10.014 | 10.043 | VV | 215 | 2688 | 0.07% | 0.013% |
| 129 | 10.072 | 10.043 | 10.107 | VV | 394 | 10742 | 0.27% | 0.052% |
| 130 | 10.142 | 10.107 | 10.159 | VV | 670 | 13093 | 0.33% | 0.064% |
| 131 | 10.179 | 10.159 | 10.200 | VV | 557 | 9656 | 0.24% | 0.047% |
| 132 | 10.231 | 10.200 | 10.250 | VV | 461 | 10931 | 0.27% | 0.053% |
| 133 | 10.265 | 10.250 | 10.273 | VV | 624 | 5405 | 0.13% | 0.026% |
| 134 | 10.295 | 10.273 | 10.321 | VV | 476 | 11891 | 0.30% | 0.058% |
| 135 | 10.350 | 10.321 | 10.362 | VV | 593 | 11363 | 0.28% | 0.055% |
| 136 | 10.435 | 10.362 | 10.476 | VV | 1833 | 76539 | 1.90% | 0.372% |
| 137 | 10.486 | 10.476 | 10.524 | VV | 1235 | 26845 | 0.67% | 0.131% |
| 138 | 10.550 | 10.524 | 10.589 | VV | 1427 | 29313 | 0.73% | 0.143% |
| 139 | 10.615 | 10.589 | 10.644 | VV | 1208 | 23523 | 0.58% | 0.114% |
| 140 | 10.663 | 10.644 | 10.674 | VV | 401 | 6398 | 0.16% | 0.031% |
| 141 | 10.706 | 10.674 | 10.731 | VV | 435 | 11117 | 0.28% | 0.054% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.763 | 10.731 | 10.787 | VV | 386 | 11056 | 0.27% | 0.054% |
| 143 | 10.807 | 10.787 | 10.838 | VV | 403 | 9645 | 0.24% | 0.047% |
| 144 | 10.857 | 10.838 | 10.890 | VV | 776 | 15991 | 0.40% | 0.078% |
| 145 | 10.911 | 10.890 | 10.968 | VV | 1717 | 19150 | 0.48% | 0.093% |
| 146 | 11.004 | 10.968 | 11.078 | VV | 466 | 12711 | 0.32% | 0.062% |
| 147 | 11.120 | 11.078 | 11.154 | VV | 1518 | 23899 | 0.59% | 0.116% |
| 148 | 11.189 | 11.154 | 11.217 | VV | 1993 | 28506 | 0.71% | 0.139% |
| 149 | 11.238 | 11.217 | 11.248 | VV | 191 | 3155 | 0.08% | 0.015% |
| 150 | 11.280 | 11.248 | 11.331 | VV | 399 | 9965 | 0.25% | 0.048% |
| 151 | 11.340 | 11.331 | 11.390 | VV | 117 | 2165 | 0.05% | 0.011% |
| 152 | 11.404 | 11.390 | 11.427 | VV | 189 | 2775 | 0.07% | 0.013% |
| 153 | 11.472 | 11.427 | 11.498 | VV | 572 | 11390 | 0.28% | 0.055% |
| 154 | 11.510 | 11.498 | 11.561 | VV | 497 | 9948 | 0.25% | 0.048% |
| 155 | 11.596 | 11.561 | 11.620 | VV | 1082 | 22204 | 0.55% | 0.108% |
| 156 | 11.641 | 11.620 | 11.691 | VV | 634 | 13531 | 0.34% | 0.066% |
| 157 | 11.708 | 11.691 | 11.724 | VV | 567 | 2327 | 0.06% | 0.011% |
| 158 | 11.756 | 11.724 | 11.771 | VV | 239 | 4724 | 0.12% | 0.023% |
| 159 | 11.785 | 11.771 | 11.804 | VV | 370 | 6021 | 0.15% | 0.029% |
| 160 | 11.849 | 11.804 | 11.884 | VV | 1111 | 30928 | 0.77% | 0.150% |
| 161 | 11.899 | 11.884 | 11.924 | VV | 479 | 6912 | 0.17% | 0.034% |
| 162 | 11.951 | 11.924 | 11.964 | VV | 266 | 4922 | 0.12% | 0.024% |
| 163 | 11.995 | 11.964 | 12.038 | VV | 522 | 15437 | 0.38% | 0.075% |
| 164 | 12.074 | 12.038 | 12.088 | VV | 731 | 15627 | 0.39% | 0.076% |
| 165 | 12.098 | 12.088 | 12.123 | VV | 688 | 11757 | 0.29% | 0.057% |
| 166 | 12.137 | 12.123 | 12.171 | VV | 1598 | 11817 | 0.29% | 0.057% |
| 167 | 12.183 | 12.171 | 12.204 | VV | 375 | 5655 | 0.14% | 0.028% |
| 168 | 12.229 | 12.204 | 12.237 | VV | 316 | 4939 | 0.12% | 0.024% |
| 169 | 12.245 | 12.237 | 12.253 | VV | 433 | 2759 | 0.07% | 0.013% |
| 170 | 12.266 | 12.253 | 12.284 | VV | 439 | 6466 | 0.16% | 0.031% |
| 171 | 12.358 | 12.284 | 12.391 | VV | 1509 | 38738 | 0.96% | 0.188% |
| 172 | 12.436 | 12.391 | 12.465 | VV | 1157 | 19155 | 0.48% | 0.093% |
| 173 | 12.495 | 12.465 | 12.518 | VV | 2252 | 32247 | 0.80% | 0.157% |
| 174 | 12.531 | 12.518 | 12.578 | VV | 1214 | 13334 | 0.33% | 0.065% |
| 175 | 12.615 | 12.578 | 12.698 | VV | 821 | 21615 | 0.54% | 0.105% |
| 176 | 12.714 | 12.698 | 12.727 | VV | 182 | 2056 | 0.05% | 0.010% |
| 177 | 12.774 | 12.727 | 12.795 | VV | 319 | 8314 | 0.21% | 0.040% |
| 178 | 12.817 | 12.795 | 12.838 | VV | 281 | 5334 | 0.13% | 0.026% |
| 179 | 12.850 | 12.838 | 12.894 | VV | 363 | 9549 | 0.24% | 0.046% |
| 180 | 12.941 | 12.894 | 13.081 | VV | 318861 | 4022257 | 100.00% | 19.560% |
| 181 | 13.114 | 13.081 | 13.207 | VV | 1858 | 52311 | 1.30% | 0.254% |
| 182 | 13.224 | 13.207 | 13.242 | VV | 342 | 5916 | 0.15% | 0.029% |
| 183 | 13.251 | 13.242 | 13.271 | VV | 304 | 4784 | 0.12% | 0.023% |
| 184 | 13.311 | 13.271 | 13.344 | VV | 1427 | 17383 | 0.43% | 0.085% |
| 185 | 13.391 | 13.344 | 13.476 | VV | 548 | 26311 | 0.65% | 0.128% |
| 186 | 13.501 | 13.476 | 13.525 | VV | 564 | 11716 | 0.29% | 0.057% |
| 187 | 13.556 | 13.525 | 13.585 | VV | 854 | 18195 | 0.45% | 0.088% |
| 188 | 13.639 | 13.585 | 13.664 | VV | 1111 | 22754 | 0.57% | 0.111% |
| 189 | 13.692 | 13.664 | 13.760 | VV | 2235 | 33767 | 0.84% | 0.164% |
| 190 | 13.782 | 13.760 | 13.816 | VV | 195 | 3495 | 0.09% | 0.017% |
| 191 | 13.826 | 13.816 | 13.846 | VV | 63 | 935 | 0.02% | 0.005% |
| 192 | 13.867 | 13.846 | 14.018 | PV | 563 | 22249 | 0.55% | 0.108% |
| 193 | 14.032 | 14.018 | 14.051 | VV | 360 | 5085 | 0.13% | 0.025% |
| 194 | 14.128 | 14.051 | 14.231 | VV | 1085 | 37202 | 0.92% | 0.181% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 14.252 | 14.231 | 14.298 | VV | 600 | 11104 | 0.28% | 0.054% |
| 196 | 14.411 | 14.298 | 14.491 | VV | 851 | 46645 | 1.16% | 0.227% |
| 197 | 14.586 | 14.491 | 14.661 | VV | 608 | 42675 | 1.06% | 0.208% |
| 198 | 14.750 | 14.661 | 14.771 | VV | 1012 | 31310 | 0.78% | 0.152% |
| 199 | 14.793 | 14.771 | 14.841 | VV | 2368 | 41734 | 1.04% | 0.203% |
| 200 | 14.847 | 14.841 | 14.864 | VV | 567 | 4354 | 0.11% | 0.021% |
| 201 | 14.884 | 14.864 | 14.941 | VV | 365 | 9928 | 0.25% | 0.048% |
| 202 | 15.012 | 14.941 | 15.054 | VV | 310 | 11294 | 0.28% | 0.055% |
| 203 | 15.148 | 15.128 | 15.162 | VV | 127 | 1963 | 0.05% | 0.010% |
| 204 | 15.210 | 15.162 | 15.248 | VV | 840 | 19070 | 0.47% | 0.093% |
| 205 | 15.313 | 15.248 | 15.398 | VV | 683 | 19035 | 0.47% | 0.093% |
| 206 | 15.494 | 15.398 | 15.531 | PV | 117 | 5789 | 0.14% | 0.028% |
| 207 | 15.594 | 15.531 | 15.651 | VV | 478 | 13019 | 0.32% | 0.063% |
| 208 | 15.665 | 15.651 | 15.740 | VV | 222 | 9983 | 0.25% | 0.049% |
| 209 | 15.772 | 15.740 | 15.791 | PV | 558 | 8190 | 0.20% | 0.040% |
| 210 | 15.813 | 15.791 | 15.892 | VV | 1813 | 29489 | 0.73% | 0.143% |
| 211 | 15.952 | 15.892 | 15.973 | VV | 628 | 12332 | 0.31% | 0.060% |
| 212 | 15.989 | 15.973 | 16.090 | VV | 537 | 12134 | 0.30% | 0.059% |
| 213 | 16.171 | 16.090 | 16.213 | VV | 194 | 7147 | 0.18% | 0.035% |
| 214 | 16.295 | 16.213 | 16.324 | PV | 1063 | 22982 | 0.57% | 0.112% |
| 215 | 16.339 | 16.324 | 16.391 | VV | 508 | 13038 | 0.32% | 0.063% |
| 216 | 16.421 | 16.391 | 16.561 | VV | 303 | 19094 | 0.47% | 0.093% |
| 217 | 16.584 | 16.561 | 16.610 | VV | 147 | 3630 | 0.09% | 0.018% |
| 218 | 16.655 | 16.610 | 16.681 | VV | 780 | 17322 | 0.43% | 0.084% |
| 219 | 16.761 | 16.681 | 16.854 | VV | 2153 | 58771 | 1.46% | 0.286% |
| 220 | 16.870 | 16.854 | 16.901 | VV | 192 | 3419 | 0.09% | 0.017% |
| 221 | 17.040 | 16.901 | 17.074 | VV | 534 | 23794 | 0.59% | 0.116% |
| 222 | 17.116 | 17.074 | 17.178 | VV | 411 | 17166 | 0.43% | 0.083% |
| 223 | 17.210 | 17.178 | 17.261 | VV | 2303 | 39862 | 0.99% | 0.194% |
| 224 | 17.307 | 17.261 | 17.348 | VV | 1097 | 29801 | 0.74% | 0.145% |
| 225 | 17.393 | 17.348 | 17.418 | VV | 910 | 29811 | 0.74% | 0.145% |
| 226 | 17.485 | 17.418 | 17.564 | VV | 1344 | 87279 | 2.17% | 0.424% |
| 227 | 17.647 | 17.564 | 17.680 | VV | 4088 | 117700 | 2.93% | 0.572% |
| 228 | 17.702 | 17.680 | 17.737 | VV | 1323 | 39991 | 0.99% | 0.194% |
| 229 | 17.778 | 17.737 | 17.848 | VV | 1157 | 65767 | 1.64% | 0.320% |
| 230 | 17.924 | 17.848 | 17.978 | VV | 1881 | 88970 | 2.21% | 0.433% |
| 231 | 18.068 | 17.978 | 18.128 | VV | 4276 | 137113 | 3.41% | 0.667% |
| 232 | 18.161 | 18.128 | 18.238 | VV | 1686 | 62841 | 1.56% | 0.306% |
| 233 | 18.258 | 18.238 | 18.274 | VV | 912 | 19574 | 0.49% | 0.095% |
| 234 | 18.329 | 18.274 | 18.361 | VV | 1497 | 63661 | 1.58% | 0.310% |
| 235 | 18.382 | 18.361 | 18.404 | VV | 1439 | 35231 | 0.88% | 0.171% |
| 236 | 18.479 | 18.404 | 18.558 | VV | 5135 | 201022 | 5.00% | 0.978% |
| 237 | 18.565 | 18.558 | 18.601 | VV | 1614 | 36765 | 0.91% | 0.179% |
| 238 | 18.634 | 18.601 | 18.684 | VV | 1838 | 79063 | 1.97% | 0.384% |
| 239 | 18.781 | 18.684 | 18.807 | VV | 2020 | 126484 | 3.14% | 0.615% |
| 240 | 18.874 | 18.807 | 18.944 | VV | 4330 | 203122 | 5.05% | 0.988% |
| 241 | 18.960 | 18.944 | 19.001 | VV | 2121 | 67789 | 1.69% | 0.330% |
| 242 | 19.045 | 19.001 | 19.093 | VV | 3348 | 130482 | 3.24% | 0.635% |
| 243 | 19.122 | 19.093 | 19.151 | VV | 2004 | 65536 | 1.63% | 0.319% |
| 244 | 19.260 | 19.151 | 19.337 | VV | 5186 | 316821 | 7.88% | 1.541% |
| 245 | 19.561 | 19.337 | 19.600 | VV | 5759 | 531091 | 13.20% | 2.583% |
| 246 | 19.634 | 19.600 | 19.671 | VV | 5515 | 195463 | 4.86% | 0.951% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 19.878 | 19.671 | 19.941 | VV | 5744 | 829028 | 20.61% | 4.032% |
| 248 | 19.998 | 19.941 | 20.020 | VV | 8078 | 306680 | 7.62% | 1.491% |
| 249 | 20.051 | 20.020 | 20.110 | VV | 13072 | 404394 | 10.05% | 1.967% |
| 250 | 20.287 | 20.110 | 20.304 | VV | 7692 | 808346 | 20.10% | 3.931% |
| 251 | 20.353 | 20.304 | 20.434 | VV | 8170 | 578581 | 14.38% | 2.814% |
| 252 | 20.523 | 20.434 | 20.654 | VV | 11366 | 1072913 | 26.67% | 5.218% |
| 253 | 20.722 | 20.654 | 20.761 | VV | 8630 | 502733 | 12.50% | 2.445% |
| 254 | 20.785 | 20.761 | 20.998 | VV | 8748 | 1075737 | 26.74% | 5.231% |
| 255 | 21.051 | 20.998 | 21.107 | VV | 10796 | 554999 | 13.80% | 2.699% |
| 256 | 21.133 | 21.107 | 21.171 | VV | 7806 | 291473 | 7.25% | 1.417% |
| 257 | 21.288 | 21.171 | 21.306 | VV | 8781 | 652921 | 16.23% | 3.175% |
| 258 | 21.318 | 21.306 | 21.464 | VV | 8693 | 749057 | 18.62% | 3.643% |
| 259 | 21.602 | 21.464 | 21.624 | VV | 8609 | 709767 | 17.65% | 3.452% |
| 260 | 21.670 | 21.624 | 21.762 | VV | 10507 | 679433 | 16.89% | 3.304% |
| 261 | 21.793 | 21.762 | 21.814 | VV | 6844 | 213447 | 5.31% | 1.038% |
| 262 | 21.884 | 21.814 | 21.904 | VV | 6870 | 366952 | 9.12% | 1.785% |
| 263 | 21.914 | 21.904 | 21.981 | VV | 7694 | 311060 | 7.73% | 1.513% |
| 264 | 22.027 | 21.981 | 22.101 | VBA | 6969 | 485572 | 12.07% | 2.361% |

Sum of corrected areas: 20563193

Aliphatic EPH 111424.M Tue Nov 19 10:54:35 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.3 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048774.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 3.33 | | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.81 | | 0.98 | 1.69 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.37 | J | 2.03 | 2.71 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 45.2 | | 40 - 140 | 90% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 43.6 | | 40 - 140 | 87% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 27.7 | | 40 - 140 | 55% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-06 | Acq On: | 19 Nov 2024 07:59 |
| Client Sample ID: | PH2-BOT-009 | Operator: | YP/AJ |
| Data file: | FD048774.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 75 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 581029 | 3.026 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 9459202 | 49.149 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 4976646 | 26.784 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 5510457 | 35.047 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 20527334 | 114.006 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.250 | 11.250 | 5331881 | 27.72 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.363 | 7.363 | 7952476 | 45.17 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.213 | 8.213 | 5023359 | 43.62 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048774.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 07:59
Operator : YP/AJ
Sample : P4860-06
Misc :
ALS Vial : 75 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-009

Integration File: sample.E
Quant Time: Nov 19 10:59:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.363 | 7952476 | 45.169 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 90.34% |
| 6) S 2-Flurobiphenyl (SURR) | 8.213 | 5023359 | 43.617 ug/ml |
| Spiked Amount 50.000 Range | 0 - 131 | Recovery = | 87.23% |
| 11) S ortho-Terphenyl (SURR) | 11.250 | 5331881 | 27.722 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 55.44% |
| **Target Compounds** | | | |

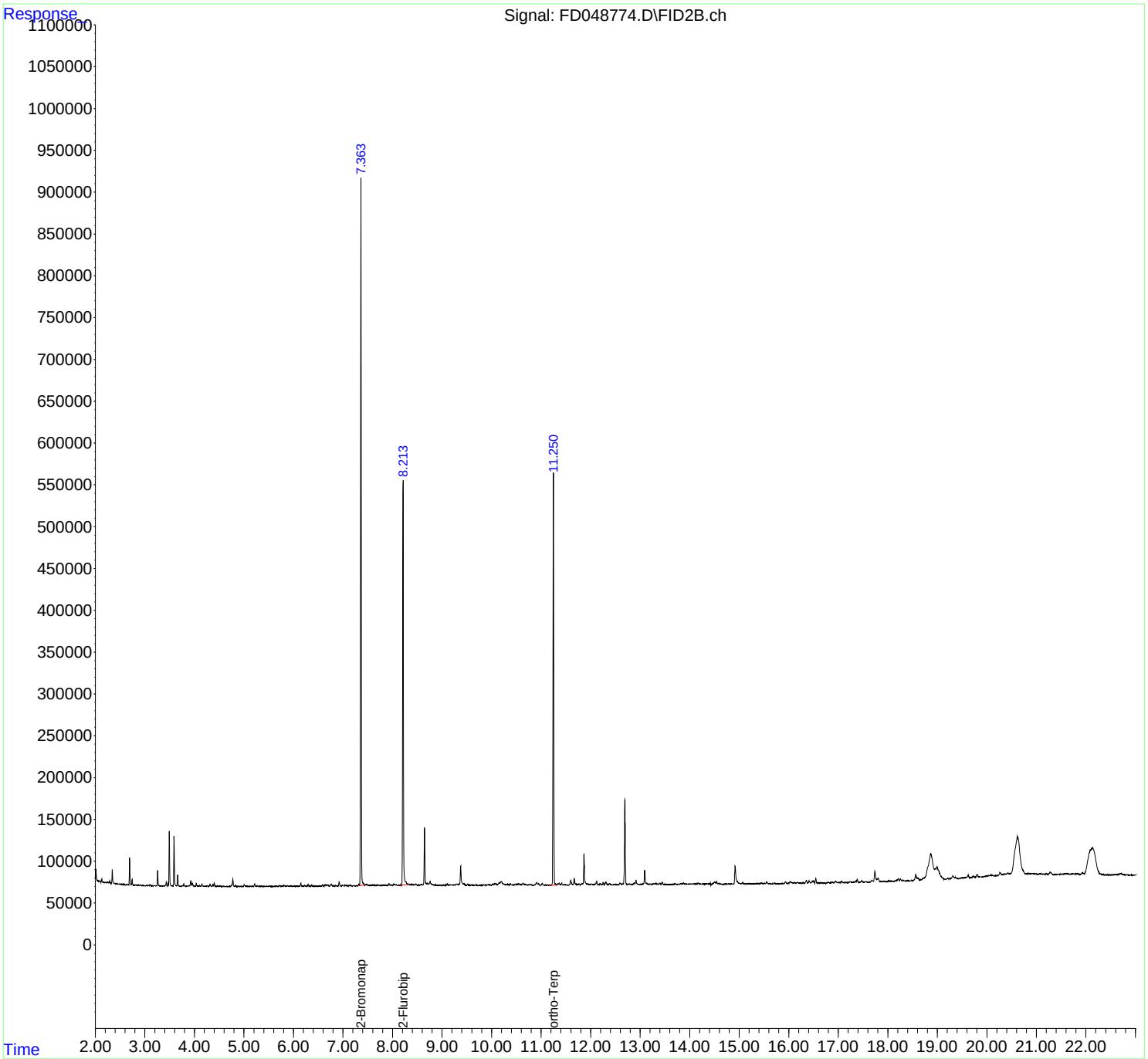
(f)=RT Delta > 1/2 Window (m)=manual int.

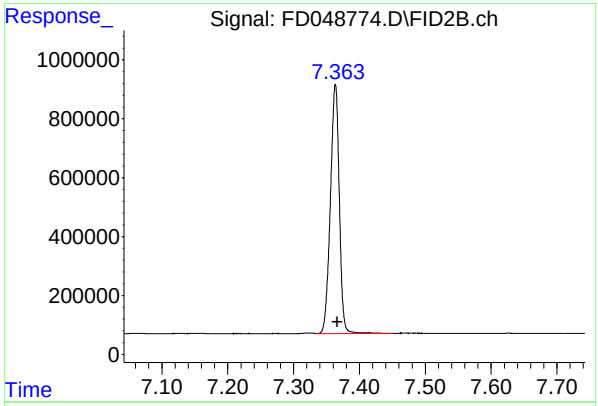
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048774.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 07:59
Operator : YP/AJ
Sample : P4860-06
Misc :
ALS Vial : 75 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-009

Integration File: sample.E
Quant Time: Nov 19 10:59:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

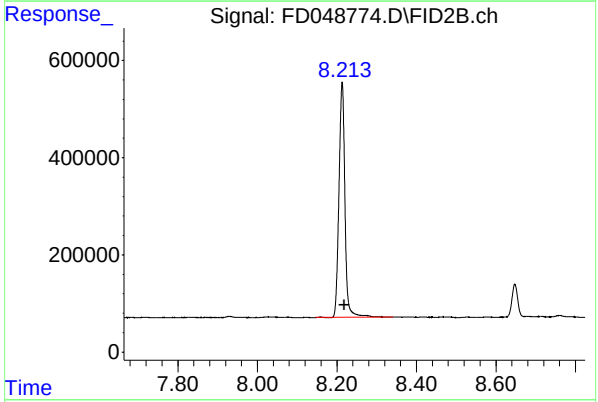





#4 2-Bromonaphthalene (SURR)

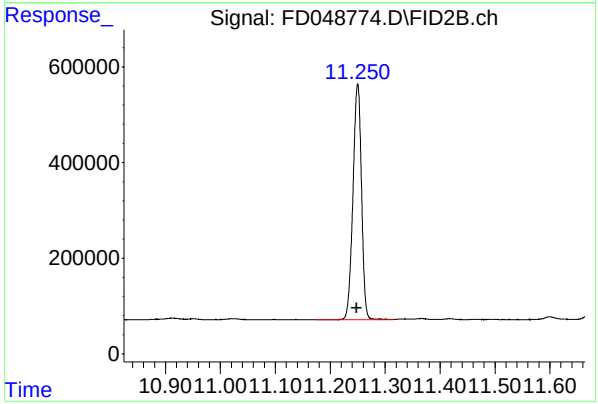
R.T.: 7.363 min
Delta R.T.: -0.003 min
Response: 7952476
Conc: 45.17 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-009




#6 2-Flurobiphenyl (SURR)

R.T.: 8.213 min
Delta R.T.: -0.005 min
Response: 5023359
Conc: 43.62 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.250 min
Delta R.T.: 0.001 min
Response: 5331881
Conc: 27.72 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048774.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 07:59
Sample : P4860-06
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.106 | 4.095 | 4.130 | PV | 394 | 2291 | 0.03% | 0.007% |
| 2 | 4.152 | 4.130 | 4.180 | PV | 2757 | 26886 | 0.33% | 0.087% |
| 3 | 4.184 | 4.180 | 4.222 | VV | 250 | 2187 | 0.03% | 0.007% |
| 4 | 4.228 | 4.222 | 4.237 | VV | 223 | 1329 | 0.02% | 0.004% |
| 5 | 4.265 | 4.237 | 4.287 | VV | 838 | 10419 | 0.13% | 0.034% |
| 6 | 4.317 | 4.287 | 4.338 | VV | 2914 | 33278 | 0.41% | 0.108% |
| 7 | 4.350 | 4.338 | 4.355 | VV | 338 | 2630 | 0.03% | 0.008% |
| 8 | 4.373 | 4.355 | 4.386 | VV | 2719 | 25797 | 0.32% | 0.083% |
| 9 | 4.401 | 4.386 | 4.428 | VV | 4201 | 39883 | 0.50% | 0.129% |
| 10 | 4.433 | 4.428 | 4.443 | VV | 345 | 2316 | 0.03% | 0.007% |
| 11 | 4.472 | 4.449 | 4.496 | VV | 772 | 10666 | 0.13% | 0.034% |
| 12 | 4.516 | 4.496 | 4.537 | VV | 784 | 10555 | 0.13% | 0.034% |
| 13 | 4.544 | 4.537 | 4.557 | VV | 487 | 3160 | 0.04% | 0.010% |
| 14 | 4.587 | 4.557 | 4.614 | VV | 761 | 10657 | 0.13% | 0.034% |
| 15 | 4.618 | 4.614 | 4.632 | PV | 216 | 1009 | 0.01% | 0.003% |
| 16 | 4.638 | 4.632 | 4.645 | VV | 288 | 1628 | 0.02% | 0.005% |
| 17 | 4.647 | 4.645 | 4.659 | VV | 238 | 1247 | 0.02% | 0.004% |
| 18 | 4.698 | 4.680 | 4.730 | PV | 664 | 10613 | 0.13% | 0.034% |
| 19 | 4.752 | 4.730 | 4.759 | VV | 1932 | 18896 | 0.24% | 0.061% |
| 20 | 4.775 | 4.759 | 4.808 | VV | 8846 | 101211 | 1.26% | 0.327% |
| 21 | 4.831 | 4.808 | 4.869 | VV | 1875 | 22882 | 0.28% | 0.074% |
| 22 | 4.882 | 4.869 | 4.888 | VV | 355 | 3202 | 0.04% | 0.010% |
| 23 | 4.898 | 4.888 | 4.913 | VV | 412 | 4729 | 0.06% | 0.015% |
| 24 | 4.921 | 4.913 | 4.935 | VV | 357 | 2702 | 0.03% | 0.009% |
| 25 | 4.941 | 4.935 | 4.947 | VV | 340 | 1648 | 0.02% | 0.005% |
| 26 | 4.964 | 4.947 | 4.976 | VV | 739 | 7659 | 0.10% | 0.025% |
| 27 | 4.982 | 4.976 | 4.986 | VV | 271 | 1409 | 0.02% | 0.005% |
| 28 | 5.003 | 4.986 | 5.038 | VV | 2582 | 34045 | 0.42% | 0.110% |
| 29 | 5.044 | 5.038 | 5.048 | VV | 384 | 2018 | 0.03% | 0.007% |
| 30 | 5.063 | 5.048 | 5.076 | VV | 641 | 6334 | 0.08% | 0.020% |
| 31 | 5.080 | 5.076 | 5.102 | VV | 416 | 4422 | 0.06% | 0.014% |
| 32 | 5.107 | 5.102 | 5.111 | VV | 289 | 1150 | 0.01% | 0.004% |
| 33 | 5.124 | 5.111 | 5.129 | VV | 386 | 2931 | 0.04% | 0.009% |
| 34 | 5.136 | 5.129 | 5.158 | VV | 467 | 5135 | 0.06% | 0.017% |
| 35 | 5.175 | 5.158 | 5.196 | VV | 1124 | 13099 | 0.16% | 0.042% |
| 36 | 5.216 | 5.196 | 5.235 | VV | 3333 | 34377 | 0.43% | 0.111% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.241 | 5.235 | 5.253 | VV | 429 | 3783 | 0.05% | 0.012% |
| 38 | 5.272 | 5.253 | 5.290 | VV | 1043 | 11664 | 0.15% | 0.038% |
| 39 | 5.296 | 5.290 | 5.299 | VV | 209 | 1061 | 0.01% | 0.003% |
| 40 | 5.310 | 5.299 | 5.325 | VV | 406 | 4557 | 0.06% | 0.015% |
| 41 | 5.330 | 5.325 | 5.335 | VV | 365 | 2108 | 0.03% | 0.007% |
| 42 | 5.346 | 5.335 | 5.350 | VV | 467 | 3558 | 0.04% | 0.011% |
| 43 | 5.355 | 5.350 | 5.400 | VV | 561 | 9767 | 0.12% | 0.032% |
| 44 | 5.420 | 5.400 | 5.448 | VV | 558 | 9973 | 0.12% | 0.032% |
| 45 | 5.467 | 5.448 | 5.488 | VV | 593 | 8215 | 0.10% | 0.027% |
| 46 | 5.505 | 5.488 | 5.516 | VV | 605 | 5691 | 0.07% | 0.018% |
| 47 | 5.531 | 5.516 | 5.554 | VV | 611 | 7940 | 0.10% | 0.026% |
| 48 | 5.560 | 5.554 | 5.570 | VV | 286 | 1312 | 0.02% | 0.004% |
| 49 | 5.597 | 5.582 | 5.605 | VV | 374 | 2478 | 0.03% | 0.008% |
| 50 | 5.640 | 5.605 | 5.646 | VV | 416 | 7192 | 0.09% | 0.023% |
| 51 | 5.656 | 5.646 | 5.667 | VV | 481 | 3917 | 0.05% | 0.013% |
| 52 | 5.669 | 5.667 | 5.682 | VV | 311 | 1886 | 0.02% | 0.006% |
| 53 | 5.695 | 5.682 | 5.701 | VV | 406 | 2641 | 0.03% | 0.009% |
| 54 | 5.718 | 5.701 | 5.755 | VV | 1243 | 19374 | 0.24% | 0.063% |
| 55 | 5.770 | 5.755 | 5.789 | VV | 785 | 9512 | 0.12% | 0.031% |
| 56 | 5.808 | 5.789 | 5.838 | VV | 1928 | 24959 | 0.31% | 0.081% |
| 57 | 5.843 | 5.838 | 5.848 | VV | 355 | 1384 | 0.02% | 0.004% |
| 58 | 5.881 | 5.848 | 5.913 | VV | 976 | 18261 | 0.23% | 0.059% |
| 59 | 5.944 | 5.913 | 5.973 | VV | 830 | 17645 | 0.22% | 0.057% |
| 60 | 5.982 | 5.973 | 5.986 | VV | 323 | 2006 | 0.02% | 0.006% |
| 61 | 6.007 | 5.986 | 6.018 | VV | 546 | 7329 | 0.09% | 0.024% |
| 62 | 6.023 | 6.018 | 6.035 | VV | 402 | 2671 | 0.03% | 0.009% |
| 63 | 6.043 | 6.035 | 6.075 | VV | 419 | 6894 | 0.09% | 0.022% |
| 64 | 6.080 | 6.075 | 6.093 | VV | 259 | 1907 | 0.02% | 0.006% |
| 65 | 6.111 | 6.103 | 6.117 | VV | 298 | 1465 | 0.02% | 0.005% |
| 66 | 6.124 | 6.117 | 6.130 | VV | 205 | 1004 | 0.01% | 0.003% |
| 67 | 6.148 | 6.130 | 6.173 | VV | 4100 | 41569 | 0.52% | 0.134% |
| 68 | 6.184 | 6.173 | 6.208 | VV | 486 | 6616 | 0.08% | 0.021% |
| 69 | 6.228 | 6.208 | 6.248 | VV | 1322 | 15096 | 0.19% | 0.049% |
| 70 | 6.266 | 6.248 | 6.278 | VV | 910 | 10336 | 0.13% | 0.033% |
| 71 | 6.295 | 6.278 | 6.314 | VV | 2661 | 28828 | 0.36% | 0.093% |
| 72 | 6.327 | 6.314 | 6.348 | VV | 944 | 10627 | 0.13% | 0.034% |
| 73 | 6.366 | 6.348 | 6.388 | VV | 1430 | 16766 | 0.21% | 0.054% |
| 74 | 6.394 | 6.388 | 6.402 | VV | 379 | 2387 | 0.03% | 0.008% |
| 75 | 6.406 | 6.402 | 6.431 | VV | 469 | 4437 | 0.06% | 0.014% |
| 76 | 6.443 | 6.438 | 6.453 | VV | 297 | 1871 | 0.02% | 0.006% |
| 77 | 6.467 | 6.453 | 6.498 | VV | 684 | 10257 | 0.13% | 0.033% |
| 78 | 6.518 | 6.498 | 6.536 | VV | 637 | 10076 | 0.13% | 0.033% |
| 79 | 6.543 | 6.536 | 6.552 | VV | 483 | 3769 | 0.05% | 0.012% |
| 80 | 6.561 | 6.552 | 6.565 | VV | 438 | 3135 | 0.04% | 0.010% |
| 81 | 6.585 | 6.565 | 6.610 | VV | 1697 | 23498 | 0.29% | 0.076% |
| 82 | 6.639 | 6.610 | 6.673 | VV | 2353 | 45345 | 0.56% | 0.147% |
| 83 | 6.686 | 6.673 | 6.695 | VV | 1869 | 20095 | 0.25% | 0.065% |
| 84 | 6.700 | 6.695 | 6.735 | VV | 1690 | 22281 | 0.28% | 0.072% |
| 85 | 6.763 | 6.735 | 6.798 | VV | 2867 | 48295 | 0.60% | 0.156% |
| 86 | 6.802 | 6.798 | 6.818 | VV | 593 | 6368 | 0.08% | 0.021% |
| 87 | 6.867 | 6.818 | 6.898 | VV | 830 | 26521 | 0.33% | 0.086% |
| 88 | 6.923 | 6.898 | 6.955 | VV | 5551 | 66851 | 0.83% | 0.216% |
| 89 | 6.958 | 6.955 | 6.965 | VV | 420 | 2385 | 0.03% | 0.008% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 6.984 | 6.965 | 7.014 | VV | 1060 | 20148 | 0.25% | 0.065% |
| 91 | 7.030 | 7.014 | 7.045 | VV | 1163 | 14305 | 0.18% | 0.046% |
| 92 | 7.063 | 7.045 | 7.082 | VV | 1539 | 22677 | 0.28% | 0.073% |
| 93 | 7.099 | 7.082 | 7.110 | VV | 758 | 8644 | 0.11% | 0.028% |
| 94 | 7.124 | 7.110 | 7.140 | VV | 1264 | 16673 | 0.21% | 0.054% |
| 95 | 7.156 | 7.140 | 7.182 | VV | 1609 | 23007 | 0.29% | 0.074% |
| 96 | 7.190 | 7.182 | 7.194 | VV | 452 | 3157 | 0.04% | 0.010% |
| 97 | 7.213 | 7.194 | 7.222 | VV | 927 | 11141 | 0.14% | 0.036% |
| 98 | 7.225 | 7.222 | 7.258 | VV | 718 | 10249 | 0.13% | 0.033% |
| 99 | 7.273 | 7.258 | 7.290 | VV | 852 | 12076 | 0.15% | 0.039% |
| 100 | 7.323 | 7.290 | 7.337 | VV | 2769 | 37891 | 0.47% | 0.122% |
| 101 | 7.364 | 7.337 | 7.451 | VV | 847488 | 8030151 | 100.00% | 25.950% |
| 102 | 7.470 | 7.451 | 7.477 | VV | 1997 | 27957 | 0.35% | 0.090% |
| 103 | 7.479 | 7.477 | 7.531 | VV | 2002 | 47981 | 0.60% | 0.155% |
| 104 | 7.536 | 7.531 | 7.567 | VV | 1166 | 21272 | 0.26% | 0.069% |
| 105 | 7.583 | 7.567 | 7.608 | VV | 1329 | 28393 | 0.35% | 0.092% |
| 106 | 7.627 | 7.608 | 7.648 | VV | 1978 | 32514 | 0.40% | 0.105% |
| 107 | 7.657 | 7.648 | 7.668 | VV | 1102 | 11495 | 0.14% | 0.037% |
| 108 | 7.682 | 7.668 | 7.703 | VV | 1275 | 22964 | 0.29% | 0.074% |
| 109 | 7.717 | 7.703 | 7.747 | VV | 1402 | 27590 | 0.34% | 0.089% |
| 110 | 7.762 | 7.747 | 7.782 | VV | 1054 | 19904 | 0.25% | 0.064% |
| 111 | 7.787 | 7.782 | 7.804 | VV | 1038 | 11791 | 0.15% | 0.038% |
| 112 | 7.836 | 7.804 | 7.855 | VV | 1488 | 35062 | 0.44% | 0.113% |
| 113 | 7.859 | 7.855 | 7.863 | VV | 1010 | 4649 | 0.06% | 0.015% |
| 114 | 7.870 | 7.863 | 7.911 | VV | 1185 | 30276 | 0.38% | 0.098% |
| 115 | 7.930 | 7.911 | 7.965 | VV | 3371 | 59371 | 0.74% | 0.192% |
| 116 | 7.969 | 7.965 | 7.999 | VV | 1213 | 20574 | 0.26% | 0.066% |
| 117 | 8.025 | 7.999 | 8.067 | VV | 2261 | 64745 | 0.81% | 0.209% |
| 118 | 8.075 | 8.067 | 8.103 | VV | 1732 | 23889 | 0.30% | 0.077% |
| 119 | 8.125 | 8.103 | 8.143 | VV | 1324 | 21571 | 0.27% | 0.070% |
| 120 | 8.159 | 8.143 | 8.179 | VV | 1732 | 24750 | 0.31% | 0.080% |
| 121 | 8.213 | 8.179 | 8.265 | VV | 485498 | 5045323 | 62.83% | 16.304% |
| 122 | 8.273 | 8.265 | 8.364 | VV | 5202 | 159460 | 1.99% | 0.515% |
| 123 | 8.384 | 8.364 | 8.403 | VV | 2058 | 39941 | 0.50% | 0.129% |
| 124 | 8.414 | 8.403 | 8.418 | VV | 1827 | 15355 | 0.19% | 0.050% |
| 125 | 8.422 | 8.418 | 8.447 | VV | 1782 | 27561 | 0.34% | 0.089% |
| 126 | 8.467 | 8.447 | 8.508 | VV | 2202 | 56757 | 0.71% | 0.183% |
| 127 | 8.529 | 8.508 | 8.543 | VV | 1724 | 27391 | 0.34% | 0.089% |
| 128 | 8.549 | 8.543 | 8.556 | VV | 1254 | 9976 | 0.12% | 0.032% |
| 129 | 8.579 | 8.556 | 8.596 | VV | 1819 | 36491 | 0.45% | 0.118% |
| 130 | 8.600 | 8.596 | 8.605 | VV | 1416 | 7521 | 0.09% | 0.024% |
| 131 | 8.647 | 8.605 | 8.672 | VV | 69830 | 740272 | 9.22% | 2.392% |
| 132 | 8.682 | 8.672 | 8.695 | VV | 3202 | 40879 | 0.51% | 0.132% |
| 133 | 8.714 | 8.695 | 8.731 | VV | 3143 | 57826 | 0.72% | 0.187% |
| 134 | 8.759 | 8.731 | 8.783 | VV | 5256 | 102568 | 1.28% | 0.331% |
| 135 | 8.790 | 8.783 | 8.817 | VV | 2477 | 39416 | 0.49% | 0.127% |
| 136 | 8.831 | 8.817 | 8.859 | VV | 1974 | 31625 | 0.39% | 0.102% |
| 137 | 8.879 | 8.859 | 8.904 | VV | 1453 | 27642 | 0.34% | 0.089% |
| 138 | 8.915 | 8.904 | 8.923 | VV | 952 | 8487 | 0.11% | 0.027% |
| 139 | 8.931 | 8.923 | 8.951 | VV | 910 | 13797 | 0.17% | 0.045% |
| 140 | 8.961 | 8.951 | 9.005 | VV | 1148 | 25800 | 0.32% | 0.083% |
| 141 | 9.026 | 9.005 | 9.037 | VV | 1165 | 16028 | 0.20% | 0.052% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.047 | 9.037 | 9.087 | VV | 1162 | 27221 | 0.34% | 0.088% |
| 143 | 9.106 | 9.087 | 9.144 | VV | 2478 | 49749 | 0.62% | 0.161% |
| 144 | 9.180 | 9.144 | 9.197 | VV | 1384 | 36821 | 0.46% | 0.119% |
| 145 | 9.201 | 9.197 | 9.231 | VV | 1261 | 22470 | 0.28% | 0.073% |
| 146 | 9.248 | 9.231 | 9.266 | VV | 1303 | 23376 | 0.29% | 0.076% |
| 147 | 9.296 | 9.266 | 9.307 | VV | 2110 | 42397 | 0.53% | 0.137% |
| 148 | 9.312 | 9.307 | 9.328 | VV | 2043 | 25550 | 0.32% | 0.083% |
| 149 | 9.346 | 9.328 | 9.354 | VV | 2568 | 34957 | 0.44% | 0.113% |
| 150 | 9.377 | 9.354 | 9.429 | VV | 23020 | 349441 | 4.35% | 1.129% |
| 151 | 9.443 | 9.429 | 9.490 | VV | 3074 | 54491 | 0.68% | 0.176% |
| 152 | 9.519 | 9.490 | 9.550 | VV | 2249 | 42183 | 0.53% | 0.136% |
| 153 | 9.554 | 9.550 | 9.568 | VV | 800 | 7387 | 0.09% | 0.024% |
| 154 | 9.598 | 9.568 | 9.637 | VV | 1135 | 34135 | 0.43% | 0.110% |
| 155 | 9.671 | 9.637 | 9.684 | VV | 1128 | 25094 | 0.31% | 0.081% |
| 156 | 9.688 | 9.684 | 9.710 | VV | 929 | 11746 | 0.15% | 0.038% |
| 157 | 9.713 | 9.710 | 9.719 | VV | 496 | 2402 | 0.03% | 0.008% |
| 158 | 9.729 | 9.719 | 9.735 | VV | 564 | 4461 | 0.06% | 0.014% |
| 159 | 9.739 | 9.735 | 9.747 | VV | 592 | 3363 | 0.04% | 0.011% |
| 160 | 9.772 | 9.747 | 9.778 | VV | 775 | 11521 | 0.14% | 0.037% |
| 161 | 9.793 | 9.778 | 9.814 | VV | 905 | 13907 | 0.17% | 0.045% |
| 162 | 9.833 | 9.814 | 9.855 | VV | 1281 | 21805 | 0.27% | 0.070% |
| 163 | 9.864 | 9.855 | 9.871 | VV | 847 | 7776 | 0.10% | 0.025% |
| 164 | 9.877 | 9.871 | 9.880 | VV | 886 | 4050 | 0.05% | 0.013% |
| 165 | 9.888 | 9.880 | 9.895 | VV | 841 | 7443 | 0.09% | 0.024% |
| 166 | 9.911 | 9.895 | 9.928 | VV | 1227 | 20700 | 0.26% | 0.067% |
| 167 | 9.942 | 9.928 | 9.982 | VV | 1210 | 30499 | 0.38% | 0.099% |
| 168 | 9.997 | 9.982 | 10.002 | VV | 955 | 10735 | 0.13% | 0.035% |
| 169 | 10.021 | 10.002 | 10.034 | VV | 1966 | 26067 | 0.32% | 0.084% |
| 170 | 10.057 | 10.034 | 10.107 | VV | 2646 | 91793 | 1.14% | 0.297% |
| 171 | 10.115 | 10.107 | 10.124 | VV | 1663 | 15077 | 0.19% | 0.049% |
| 172 | 10.157 | 10.124 | 10.163 | VV | 3642 | 62768 | 0.78% | 0.203% |
| 173 | 10.198 | 10.163 | 10.288 | VV | 5217 | 215785 | 2.69% | 0.697% |
| 174 | 10.309 | 10.288 | 10.323 | VV | 1684 | 28670 | 0.36% | 0.093% |
| 175 | 10.327 | 10.323 | 10.356 | VV | 1667 | 25138 | 0.31% | 0.081% |
| 176 | 10.378 | 10.356 | 10.412 | VV | 2593 | 51161 | 0.64% | 0.165% |
| 177 | 10.423 | 10.412 | 10.446 | VV | 1121 | 18717 | 0.23% | 0.060% |
| 178 | 10.476 | 10.446 | 10.487 | VV | 1563 | 31393 | 0.39% | 0.101% |
| 179 | 10.497 | 10.487 | 10.516 | VV | 1729 | 26442 | 0.33% | 0.085% |
| 180 | 10.539 | 10.516 | 10.575 | VV | 2191 | 60091 | 0.75% | 0.194% |
| 181 | 10.578 | 10.575 | 10.600 | VV | 1536 | 18171 | 0.23% | 0.059% |
| 182 | 10.633 | 10.600 | 10.660 | VV | 2696 | 67212 | 0.84% | 0.217% |
| 183 | 10.673 | 10.660 | 10.700 | VV | 1824 | 31741 | 0.40% | 0.103% |
| 184 | 10.704 | 10.700 | 10.726 | VV | 948 | 11008 | 0.14% | 0.036% |
| 185 | 10.744 | 10.726 | 10.767 | VV | 1065 | 21128 | 0.26% | 0.068% |
| 186 | 10.793 | 10.767 | 10.827 | VV | 1394 | 36721 | 0.46% | 0.119% |
| 187 | 10.832 | 10.827 | 10.836 | VV | 444 | 2402 | 0.03% | 0.008% |
| 188 | 10.913 | 10.836 | 10.938 | VV | 3852 | 101110 | 1.26% | 0.327% |
| 189 | 10.952 | 10.938 | 10.978 | VV | 2607 | 35136 | 0.44% | 0.114% |
| 190 | 10.984 | 10.978 | 10.990 | VV | 708 | 3916 | 0.05% | 0.013% |
| 191 | 10.994 | 10.990 | 10.998 | VV | 803 | 3362 | 0.04% | 0.011% |
| 192 | 11.022 | 10.998 | 11.060 | VV | 2679 | 52796 | 0.66% | 0.171% |
| 193 | 11.067 | 11.060 | 11.072 | VV | 517 | 3664 | 0.05% | 0.012% |
| 194 | 11.097 | 11.072 | 11.125 | VV | 885 | 15833 | 0.20% | 0.051% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.138 | 11.125 | 11.153 | VV | 743 | 8392 | 0.10% | 0.027% |
| 196 | 11.174 | 11.153 | 11.187 | VV | 625 | 9085 | 0.11% | 0.029% |
| 197 | 11.193 | 11.187 | 11.199 | VV | 539 | 2927 | 0.04% | 0.009% |
| 198 | 11.250 | 11.199 | 11.315 | VV | 493895 | 5364929 | 66.81% | 17.337% |
| 199 | 11.336 | 11.315 | 11.346 | VV | 2062 | 31442 | 0.39% | 0.102% |
| 200 | 11.366 | 11.346 | 11.390 | VV | 2913 | 50773 | 0.63% | 0.164% |
| 201 | 11.417 | 11.390 | 11.443 | VV | 2768 | 44952 | 0.56% | 0.145% |
| 202 | 11.463 | 11.443 | 11.481 | VV | 1105 | 19457 | 0.24% | 0.063% |
| 203 | 11.495 | 11.481 | 11.510 | VV | 1059 | 14613 | 0.18% | 0.047% |
| 204 | 11.516 | 11.510 | 11.532 | VV | 751 | 8553 | 0.11% | 0.028% |
| 205 | 11.535 | 11.532 | 11.556 | VV | 665 | 8880 | 0.11% | 0.029% |
| 206 | 11.601 | 11.556 | 11.647 | VV | 6512 | 129242 | 1.61% | 0.418% |
| 207 | 11.670 | 11.647 | 11.697 | VV | 8396 | 116936 | 1.46% | 0.378% |
| 208 | 11.701 | 11.697 | 11.730 | VV | 1843 | 26723 | 0.33% | 0.086% |
| 209 | 11.772 | 11.730 | 11.795 | VV | 1685 | 49944 | 0.62% | 0.161% |
| 210 | 11.831 | 11.795 | 11.844 | VV | 2335 | 49478 | 0.62% | 0.160% |
| 211 | 11.867 | 11.844 | 11.938 | VV | 38200 | 522355 | 6.50% | 1.688% |
| 212 | 11.946 | 11.938 | 11.985 | VV | 1736 | 40015 | 0.50% | 0.129% |
| 213 | 11.989 | 11.985 | 12.001 | VV | 1144 | 9408 | 0.12% | 0.030% |
| 214 | 12.025 | 12.001 | 12.028 | VV | 1529 | 21119 | 0.26% | 0.068% |
| 215 | 12.032 | 12.028 | 12.056 | VV | 1564 | 19822 | 0.25% | 0.064% |
| 216 | 12.093 | 12.056 | 12.102 | VV | 1631 | 35196 | 0.44% | 0.114% |
| 217 | 12.121 | 12.102 | 12.157 | VV | 4841 | 76703 | 0.96% | 0.248% |
| 218 | 12.194 | 12.157 | 12.227 | VV | 2410 | 50104 | 0.62% | 0.162% |
| 219 | 12.253 | 12.227 | 12.277 | VV | 3439 | 54331 | 0.68% | 0.176% |
| 220 | 12.306 | 12.277 | 12.355 | VV | 3653 | 92218 | 1.15% | 0.298% |
| 221 | 12.385 | 12.355 | 12.412 | VV | 2386 | 46468 | 0.58% | 0.150% |
| 222 | 12.420 | 12.412 | 12.438 | VV | 639 | 8449 | 0.11% | 0.027% |
| 223 | 12.477 | 12.438 | 12.492 | VV | 982 | 24142 | 0.30% | 0.078% |
| 224 | 12.503 | 12.492 | 12.560 | VV | 1157 | 36245 | 0.45% | 0.117% |
| 225 | 12.593 | 12.560 | 12.631 | VV | 2668 | 68754 | 0.86% | 0.222% |
| 226 | 12.654 | 12.631 | 12.665 | VV | 1993 | 31546 | 0.39% | 0.102% |
| 227 | 12.692 | 12.665 | 12.727 | VV | 102123 | 1171427 | 14.59% | 3.786% |
| 228 | 12.731 | 12.727 | 12.735 | VV | 1310 | 6107 | 0.08% | 0.020% |
| 229 | 12.739 | 12.735 | 12.745 | VV | 1316 | 7518 | 0.09% | 0.024% |
| 230 | 12.777 | 12.745 | 12.802 | VV | 1801 | 47037 | 0.59% | 0.152% |
| 231 | 12.807 | 12.802 | 12.814 | VV | 1108 | 7755 | 0.10% | 0.025% |
| 232 | 12.820 | 12.814 | 12.841 | VV | 1063 | 16085 | 0.20% | 0.052% |
| 233 | 12.882 | 12.841 | 12.898 | VV | 2786 | 62326 | 0.78% | 0.201% |
| 234 | 12.915 | 12.898 | 12.959 | VV | 6029 | 106271 | 1.32% | 0.343% |
| 235 | 12.970 | 12.959 | 12.978 | VV | 1244 | 13970 | 0.17% | 0.045% |
| 236 | 12.983 | 12.978 | 12.987 | VV | 1281 | 6355 | 0.08% | 0.021% |
| 237 | 12.990 | 12.987 | 13.000 | VV | 1282 | 8790 | 0.11% | 0.028% |
| 238 | 13.006 | 13.000 | 13.027 | VV | 1168 | 17871 | 0.22% | 0.058% |
| 239 | 13.090 | 13.027 | 13.133 | VV | 18147 | 291609 | 3.63% | 0.942% |
| 240 | 13.143 | 13.133 | 13.170 | VV | 2102 | 36217 | 0.45% | 0.117% |
| 241 | 13.173 | 13.170 | 13.187 | VV | 1243 | 11704 | 0.15% | 0.038% |
| 242 | 13.197 | 13.187 | 13.203 | VV | 1234 | 11999 | 0.15% | 0.039% |
| 243 | 13.208 | 13.203 | 13.225 | VV | 1370 | 14923 | 0.19% | 0.048% |
| 244 | 13.231 | 13.225 | 13.249 | VV | 1176 | 15623 | 0.19% | 0.050% |
| 245 | 13.269 | 13.249 | 13.285 | VV | 1867 | 33011 | 0.41% | 0.107% |
| 246 | 13.290 | 13.285 | 13.298 | VV | 1471 | 10847 | 0.14% | 0.035% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.320 | 13.298 | 13.343 | VV | 2408 | 46907 | 0.58% | 0.152% |
| 248 | 13.349 | 13.343 | 13.370 | VV | 1540 | 20908 | 0.26% | 0.068% |
| 249 | 13.393 | 13.370 | 13.420 | VV | 2389 | 47872 | 0.60% | 0.155% |
| 250 | 13.446 | 13.420 | 13.482 | VV | 3585 | 67157 | 0.84% | 0.217% |
| 251 | 13.487 | 13.482 | 13.490 | VV | 977 | 4649 | 0.06% | 0.015% |
| 252 | 13.497 | 13.490 | 13.522 | VV | 1029 | 17309 | 0.22% | 0.056% |
| 253 | 13.543 | 13.522 | 13.570 | VV | 1045 | 26347 | 0.33% | 0.085% |
| 254 | 13.592 | 13.570 | 13.625 | VV | 963 | 24997 | 0.31% | 0.081% |
| 255 | 13.671 | 13.625 | 13.683 | VV | 1122 | 30887 | 0.38% | 0.100% |
| 256 | 13.707 | 13.683 | 13.737 | VV | 1339 | 37263 | 0.46% | 0.120% |
| 257 | 13.740 | 13.737 | 13.762 | VV | 1099 | 14387 | 0.18% | 0.046% |
| 258 | 13.802 | 13.762 | 13.813 | VV | 1263 | 33105 | 0.41% | 0.107% |
| 259 | 13.833 | 13.813 | 13.857 | VV | 2038 | 42954 | 0.53% | 0.139% |
| 260 | 13.877 | 13.857 | 13.920 | VV | 2334 | 60102 | 0.75% | 0.194% |
| 261 | 13.931 | 13.920 | 13.977 | VV | 1232 | 37539 | 0.47% | 0.121% |
| 262 | 14.002 | 13.977 | 14.025 | VV | 1667 | 36813 | 0.46% | 0.119% |
| 263 | 14.034 | 14.025 | 14.042 | VV | 1176 | 11074 | 0.14% | 0.036% |
| 264 | 14.073 | 14.042 | 14.077 | VV | 1422 | 24404 | 0.30% | 0.079% |
| 265 | 14.084 | 14.077 | 14.112 | VV | 1415 | 26400 | 0.33% | 0.085% |
| 266 | 14.115 | 14.112 | 14.124 | VV | 1167 | 8520 | 0.11% | 0.028% |
| 267 | 14.174 | 14.124 | 14.199 | VV | 2404 | 72277 | 0.90% | 0.234% |
| 268 | 14.212 | 14.199 | 14.237 | VV | 1571 | 29773 | 0.37% | 0.096% |
| 269 | 14.250 | 14.237 | 14.273 | VV | 1239 | 23323 | 0.29% | 0.075% |
| 270 | 14.292 | 14.273 | 14.298 | VV | 1213 | 16552 | 0.21% | 0.053% |
| 271 | 14.317 | 14.298 | 14.340 | VV | 1536 | 33921 | 0.42% | 0.110% |
| 272 | 14.350 | 14.340 | 14.372 | VV | 1474 | 24753 | 0.31% | 0.080% |
| 273 | 14.387 | 14.372 | 14.399 | VV | 1386 | 21563 | 0.27% | 0.070% |
| 274 | 14.404 | 14.399 | 14.420 | VV | 1216 | 12063 | 0.15% | 0.039% |
| 275 | 14.426 | 14.420 | 14.432 | PV | 766 | 3130 | 0.04% | 0.010% |
| 276 | 14.446 | 14.432 | 14.455 | VV | 935 | 10182 | 0.13% | 0.033% |
| 277 | 14.501 | 14.455 | 14.525 | VV | 3468 | 94318 | 1.17% | 0.305% |
| 278 | 14.541 | 14.525 | 14.566 | VV | 3662 | 63246 | 0.79% | 0.204% |
| 279 | 14.582 | 14.566 | 14.611 | VV | 1986 | 38651 | 0.48% | 0.125% |
| 280 | 14.624 | 14.611 | 14.657 | VV | 1098 | 23195 | 0.29% | 0.075% |
| 281 | 14.661 | 14.657 | 14.694 | VV | 804 | 14593 | 0.18% | 0.047% |
| 282 | 14.718 | 14.694 | 14.725 | VV | 1005 | 14826 | 0.18% | 0.048% |
| 283 | 14.734 | 14.725 | 14.755 | VV | 859 | 14657 | 0.18% | 0.047% |
| 284 | 14.776 | 14.755 | 14.785 | VV | 943 | 15350 | 0.19% | 0.050% |
| 285 | 14.791 | 14.785 | 14.800 | VV | 800 | 6613 | 0.08% | 0.021% |
| 286 | 14.805 | 14.800 | 14.860 | VV | 848 | 24057 | 0.30% | 0.078% |
| 287 | 14.865 | 14.860 | 14.876 | VV | 665 | 5630 | 0.07% | 0.018% |
| 288 | 14.916 | 14.876 | 15.042 | VV | 21811 | 481699 | 6.00% | 1.557% |
| 289 | 15.068 | 15.042 | 15.098 | VV | 2213 | 45506 | 0.57% | 0.147% |
| 290 | 15.109 | 15.098 | 15.126 | VV | 883 | 11786 | 0.15% | 0.038% |
| 291 | 15.155 | 15.126 | 15.163 | VV | 852 | 16511 | 0.21% | 0.053% |
| 292 | 15.170 | 15.163 | 15.175 | VV | 752 | 4819 | 0.06% | 0.016% |
| 293 | 15.189 | 15.175 | 15.194 | VV | 998 | 9793 | 0.12% | 0.032% |
| 294 | 15.198 | 15.194 | 15.212 | VV | 859 | 8640 | 0.11% | 0.028% |
| 295 | 15.244 | 15.212 | 15.257 | VV | 944 | 20845 | 0.26% | 0.067% |
| 296 | 15.263 | 15.257 | 15.291 | VV | 828 | 14273 | 0.18% | 0.046% |
| 297 | 15.299 | 15.291 | 15.307 | VV | 748 | 6109 | 0.08% | 0.020% |
| 298 | 15.330 | 15.307 | 15.338 | VV | 825 | 13811 | 0.17% | 0.045% |
| 299 | 15.369 | 15.338 | 15.392 | VV | 1128 | 29913 | 0.37% | 0.097% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 15.409 | 15.392 | 15.414 | VV | 984 | 11980 | 0.15% | 0.039% |
| 301 | 15.450 | 15.414 | 15.476 | VV | 1249 | 37247 | 0.46% | 0.120% |
| 302 | 15.485 | 15.476 | 15.491 | VV | 780 | 6088 | 0.08% | 0.020% |
| 303 | 15.517 | 15.491 | 15.533 | VV | 1313 | 22716 | 0.28% | 0.073% |
| 304 | 15.556 | 15.533 | 15.586 | VV | 2540 | 46922 | 0.58% | 0.152% |
| 305 | 15.604 | 15.586 | 15.640 | VV | 879 | 19129 | 0.24% | 0.062% |
| 306 | 15.645 | 15.640 | 15.660 | VV | 381 | 2611 | 0.03% | 0.008% |
| 307 | 15.667 | 15.660 | 15.677 | VV | 448 | 2274 | 0.03% | 0.007% |
| 308 | 15.708 | 15.677 | 15.736 | VV | 1273 | 24617 | 0.31% | 0.080% |
| 309 | 15.762 | 15.736 | 15.785 | VV | 540 | 10440 | 0.13% | 0.034% |
| 310 | 15.800 | 15.785 | 15.815 | VV | 373 | 5004 | 0.06% | 0.016% |
| 311 | 15.866 | 15.815 | 15.882 | VV | 591 | 14437 | 0.18% | 0.047% |
| 312 | 15.884 | 15.882 | 15.900 | VV | 443 | 3321 | 0.04% | 0.011% |
| 313 | 15.931 | 15.900 | 15.975 | VV | 2445 | 60143 | 0.75% | 0.194% |
| 314 | 15.987 | 15.975 | 15.991 | VV | 785 | 7109 | 0.09% | 0.023% |
| 315 | 15.997 | 15.991 | 16.001 | VV | 902 | 4940 | 0.06% | 0.016% |
| 316 | 16.025 | 16.001 | 16.084 | VV | 2787 | 86619 | 1.08% | 0.280% |
| 317 | 16.111 | 16.084 | 16.138 | VV | 1785 | 35019 | 0.44% | 0.113% |
| 318 | 16.171 | 16.138 | 16.215 | VV | 1890 | 51164 | 0.64% | 0.165% |
| 319 | 16.217 | 16.215 | 16.234 | VV | 906 | 8078 | 0.10% | 0.026% |
| 320 | 16.238 | 16.234 | 16.272 | VV | 707 | 13643 | 0.17% | 0.044% |
| 321 | 16.295 | 16.272 | 16.320 | VV | 1304 | 23348 | 0.29% | 0.075% |
| 322 | 16.354 | 16.320 | 16.383 | VV | 4240 | 74336 | 0.93% | 0.240% |
| 323 | 16.411 | 16.383 | 16.452 | VV | 3162 | 66086 | 0.82% | 0.214% |
| 324 | 16.476 | 16.452 | 16.488 | VV | 3181 | 47734 | 0.59% | 0.154% |
| 325 | 16.503 | 16.488 | 16.523 | VV | 2786 | 43550 | 0.54% | 0.141% |
| 326 | 16.545 | 16.523 | 16.615 | VV | 6331 | 106272 | 1.32% | 0.343% |
| 327 | 16.639 | 16.615 | 16.657 | VV | 783 | 16525 | 0.21% | 0.053% |
| 328 | 16.663 | 16.657 | 16.690 | VV | 585 | 9586 | 0.12% | 0.031% |
| 329 | 16.699 | 16.690 | 16.747 | VV | 479 | 9198 | 0.11% | 0.030% |
| 330 | 16.797 | 16.758 | 16.838 | PV | 1098 | 31394 | 0.39% | 0.101% |
| 331 | 16.842 | 16.838 | 16.852 | VV | 584 | 3239 | 0.04% | 0.010% |
| 332 | 16.871 | 16.852 | 16.900 | VV | 1343 | 26878 | 0.33% | 0.087% |
| 333 | 16.908 | 16.900 | 16.918 | VV | 883 | 8122 | 0.10% | 0.026% |
| 334 | 16.947 | 16.918 | 16.990 | VV | 2365 | 50633 | 0.63% | 0.164% |
| 335 | 17.004 | 16.990 | 17.041 | VV | 616 | 14625 | 0.18% | 0.047% |
| 336 | 17.064 | 17.041 | 17.109 | VV | 2157 | 41523 | 0.52% | 0.134% |
| 337 | 17.124 | 17.109 | 17.133 | VV | 426 | 4736 | 0.06% | 0.015% |
| 338 | 17.142 | 17.133 | 17.146 | VV | 445 | 3014 | 0.04% | 0.010% |
| 339 | 17.154 | 17.146 | 17.173 | VV | 616 | 8051 | 0.10% | 0.026% |
| 340 | 17.179 | 17.173 | 17.183 | VV | 589 | 2878 | 0.04% | 0.009% |
| 341 | 17.193 | 17.183 | 17.212 | VV | 506 | 5521 | 0.07% | 0.018% |
| 342 | 17.242 | 17.212 | 17.270 | VV | 1594 | 29191 | 0.36% | 0.094% |
| 343 | 17.276 | 17.270 | 17.281 | VV | 549 | 3300 | 0.04% | 0.011% |
| 344 | 17.286 | 17.281 | 17.297 | VV | 509 | 4363 | 0.05% | 0.014% |
| 345 | 17.356 | 17.297 | 17.368 | VV | 1711 | 43250 | 0.54% | 0.140% |
| 346 | 17.385 | 17.368 | 17.421 | VV | 3546 | 50251 | 0.63% | 0.162% |
| 347 | 17.427 | 17.421 | 17.445 | VV | 620 | 6044 | 0.08% | 0.020% |
| 348 | 17.471 | 17.445 | 17.512 | VV | 2088 | 40649 | 0.51% | 0.131% |
| 349 | 17.533 | 17.512 | 17.543 | VV | 718 | 10114 | 0.13% | 0.033% |
| 350 | 17.548 | 17.543 | 17.552 | VV | 623 | 3071 | 0.04% | 0.010% |
| 351 | 17.562 | 17.552 | 17.570 | VV | 556 | 4915 | 0.06% | 0.016% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 352 | 17.574 | 17.570 | 17.633 | VV | 652 | 9496 | 0.12% | 0.031% |
| 353 | 17.679 | 17.633 | 17.708 | PV | 2582 | 53204 | 0.66% | 0.172% |
| 354 | 17.738 | 17.708 | 17.778 | VV | 12732 | 249854 | 3.11% | 0.807% |
| 355 | 17.784 | 17.778 | 17.788 | VV | 3383 | 19127 | 0.24% | 0.062% |
| 356 | 17.808 | 17.788 | 17.838 | VV | 4655 | 89225 | 1.11% | 0.288% |
| 357 | 17.843 | 17.838 | 17.863 | VV | 924 | 10990 | 0.14% | 0.036% |
| 358 | 17.867 | 17.863 | 17.875 | VV | 671 | 3819 | 0.05% | 0.012% |
| 359 | 17.878 | 17.875 | 17.884 | VV | 541 | 2569 | 0.03% | 0.008% |
| 360 | 17.897 | 17.884 | 17.906 | VV | 621 | 6422 | 0.08% | 0.021% |
| 361 | 17.911 | 17.906 | 17.920 | VV | 602 | 4184 | 0.05% | 0.014% |
| 362 | 17.923 | 17.920 | 17.928 | VV | 441 | 2110 | 0.03% | 0.007% |
| 363 | 17.930 | 17.928 | 17.943 | VV | 493 | 3151 | 0.04% | 0.010% |
| 364 | 17.949 | 17.943 | 17.977 | VV | 412 | 5655 | 0.07% | 0.018% |
| 365 | 17.994 | 17.977 | 17.999 | VV | 287 | 2823 | 0.04% | 0.009% |
| 366 | 18.022 | 17.999 | 18.056 | VV | 1202 | 24987 | 0.31% | 0.081% |
| 367 | 18.081 | 18.056 | 18.101 | VV | 723 | 13526 | 0.17% | 0.044% |
| 368 | 18.105 | 18.101 | 18.118 | VV | 282 | 2078 | 0.03% | 0.007% |
| 369 | 18.164 | 18.129 | 18.170 | PV | 285 | 4706 | 0.06% | 0.015% |

Sum of corrected areas: 30944378

Aromatic EPH 111424.M Tue Nov 19 11:06:15 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 11:19 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.03 | mg/kg | FG014864.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.25 | U | 1 | 0.25 | 0.69 | mg/kg | FG014864.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.31 | U | 1 | 0.31 | 1.03 | mg/kg | FG014864.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.83 | U | 1 | 0.83 | 1.38 | mg/kg | FG014864.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.86 | U | 1 | 1.86 | 2.07 | mg/kg | FG014864.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.69 | mg/kg | FF015095.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 1 | 0.35 | 1.03 | mg/kg | FF015095.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.01 | J | 1 | 0.99 | 1.72 | mg/kg | FF015095.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.07 | U | 1 | 2.07 | 2.75 | mg/kg | FF015095.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.64 | U | | 3.64 | 6.20 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.72 | U | | 3.72 | 6.19 | mg/kg | |
| Total EPH | Total EPH | 7.36 | U | | 7.36 | 12.4 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FF015095.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.69 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 0.35 | 1.03 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.01 | J | 0.99 | 1.72 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.07 | U | 2.07 | 2.75 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 50.8 | | 40 - 140 | 102% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 45.3 | | 40 - 140 | 91% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 39.8 | | 40 - 140 | 80% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-07 | Acq On: | 19 Nov 2024 11:19 |
| Client Sample ID: | PH2-BOT-008 | Operator: | YP\AJ |
| Data file: | FF015095.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 72 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 237213 | 1.734 | 200 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 191428 | 1.418 | 300 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 1870575 | 14.626 | 500 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 3021202 | 24.79 | 800 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 5320418 | 42.568 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.987 | 7.987 | 6201091 | 50.78 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.922 | 11.922 | 5342931 | 39.83 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.861 | 8.861 | 3699822 | 45.32 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015095.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:19
Operator : YP\AJ
Sample : P4860-07
Misc :
ALS Vial : 72 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-008

Integration File: autoint1.e
Quant Time: Nov 20 01:47:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.987 | 6201091 | 50.780 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 101.56% |
| 6) S 2-Flurobiphenyl (SURR) | 8.861 | 3699822 | 45.318 ug/ml |
| Spiked Amount 50.000 | Range 0 - 131 | Recovery = | 90.64% |
| 11) S ortho-Terphenyl (SURR) | 11.922 | 5342931 | 39.829 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 79.66% |
| **Target Compounds** | | | |

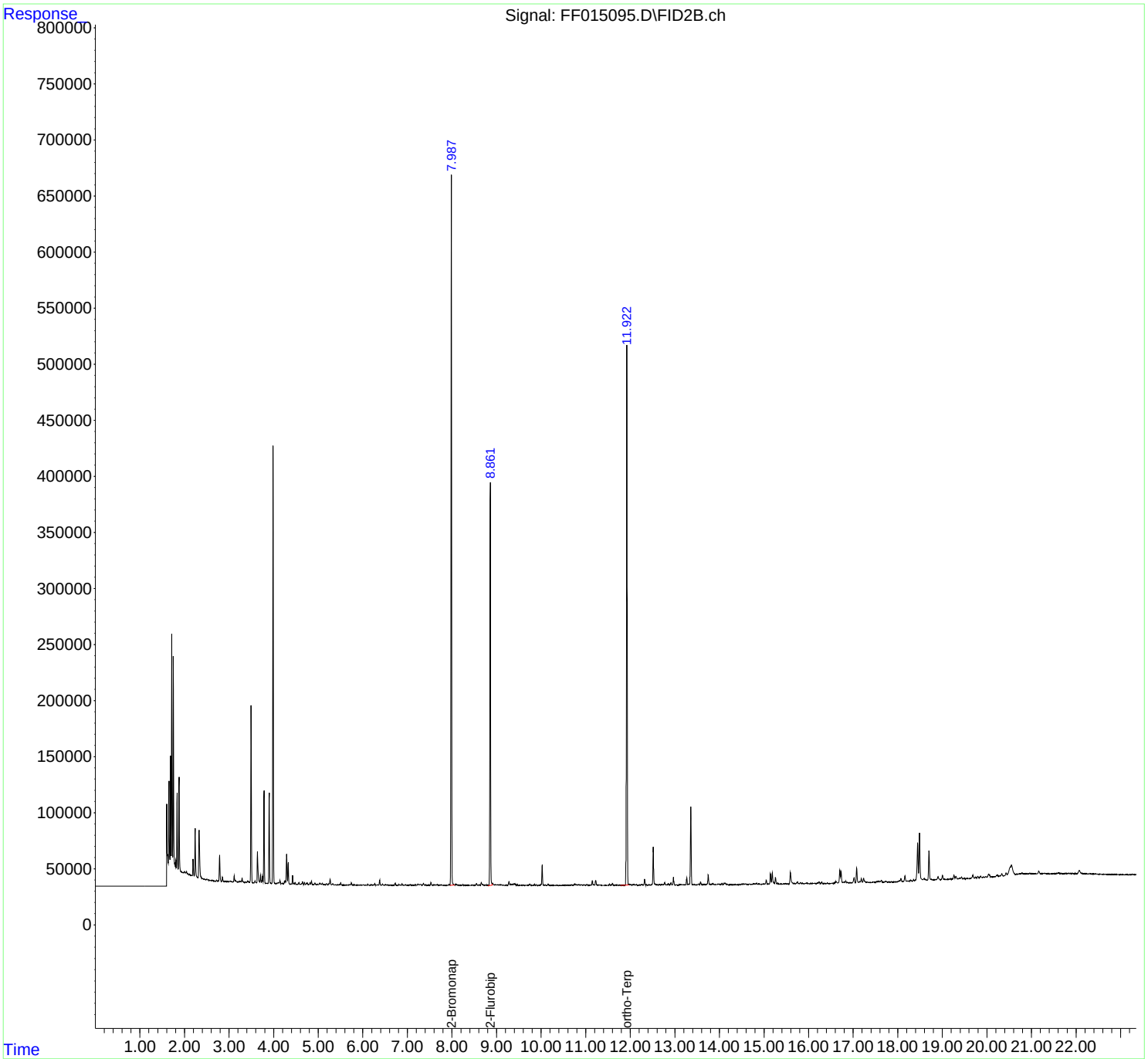
(f)=RT Delta > 1/2 Window (m)=manual int.

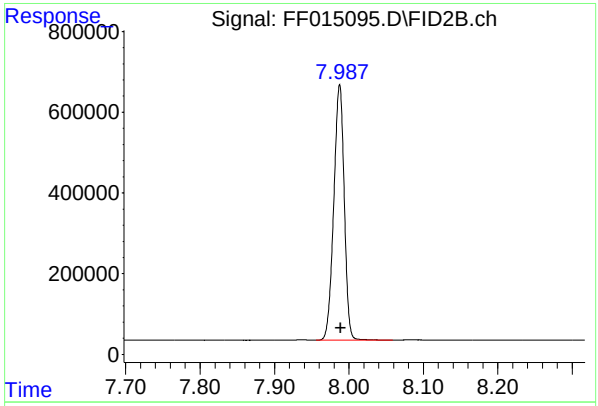
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015095.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:19
Operator : YP\AJ
Sample : P4860-07
Misc :
ALS Vial : 72 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-008

Integration File: autoint1.e
Quant Time: Nov 20 01:47:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

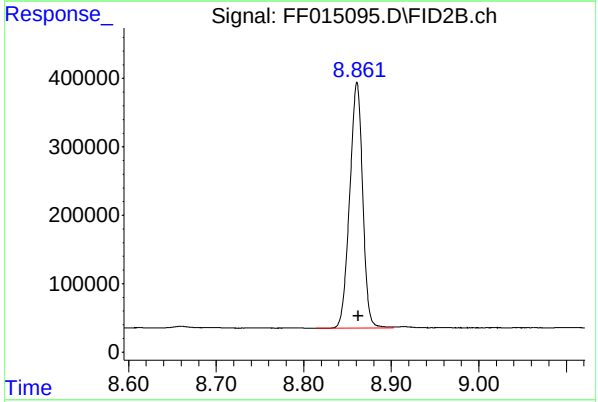





#4 2-Bromonaphthalene (SURR)

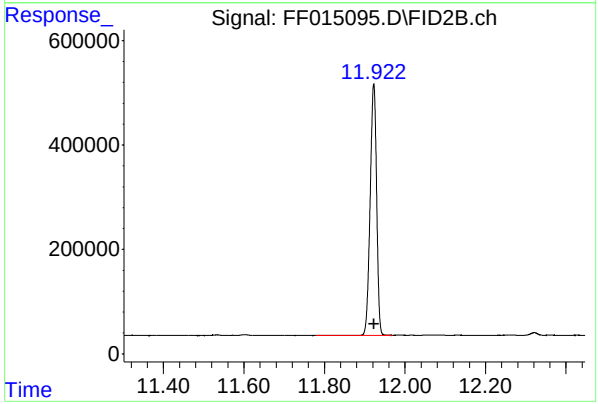
R.T.: 7.987 min
Delta R.T.: -0.002 min
Response: 6201091
Conc: 50.78 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-008




#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: -0.002 min
Response: 3699822
Conc: 45.32 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.922 min
Delta R.T.: 0.000 min
Response: 5342931
Conc: 39.83 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015095.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:19
Sample : P4860-07
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.426 | 4.401 | 4.444 | BV | 7633 | 64059 | 1.03% | 0.311% |
| 2 | 4.649 | 4.591 | 4.671 | VV | 2569 | 36433 | 0.59% | 0.177% |
| 3 | 4.689 | 4.671 | 4.712 | VV | 1888 | 20543 | 0.33% | 0.100% |
| 4 | 4.755 | 4.742 | 4.779 | VV | 1808 | 18852 | 0.30% | 0.091% |
| 5 | 4.817 | 4.779 | 4.831 | VV | 1732 | 20262 | 0.33% | 0.098% |
| 6 | 4.849 | 4.831 | 4.886 | VB | 3194 | 35171 | 0.57% | 0.170% |
| 7 | 5.267 | 5.249 | 5.296 | VV | 5064 | 61764 | 1.00% | 0.299% |
| 8 | 5.505 | 5.486 | 5.557 | VB | 2014 | 21396 | 0.35% | 0.104% |
| 9 | 5.745 | 5.721 | 5.787 | VV | 2070 | 22792 | 0.37% | 0.110% |
| 10 | 6.379 | 6.354 | 6.422 | BV | 4663 | 49244 | 0.79% | 0.239% |
| 11 | 6.728 | 6.671 | 6.749 | BB | 2130 | 21742 | 0.35% | 0.105% |
| 12 | 7.530 | 7.501 | 7.559 | BV | 2419 | 26350 | 0.42% | 0.128% |
| 13 | 7.987 | 7.956 | 8.059 | PV | 634217 | 6201091 | 100.00% | 30.061% |
| 14 | 8.552 | 8.482 | 8.599 | BV | 1675 | 25207 | 0.41% | 0.122% |
| 15 | 8.660 | 8.627 | 8.727 | VB | 2550 | 46721 | 0.75% | 0.226% |
| 16 | 8.861 | 8.814 | 8.902 | BV | 359663 | 3699822 | 59.66% | 17.936% |
| 17 | 8.915 | 8.902 | 8.944 | VV | 1664 | 22164 | 0.36% | 0.107% |
| 18 | 9.280 | 9.177 | 9.342 | BB | 3129 | 50063 | 0.81% | 0.243% |
| 19 | 10.026 | 10.004 | 10.059 | VV | 18410 | 192646 | 3.11% | 0.934% |
| 20 | 11.149 | 11.061 | 11.192 | BV | 3948 | 53435 | 0.86% | 0.259% |
| 21 | 11.224 | 11.192 | 11.281 | VB | 4213 | 53882 | 0.87% | 0.261% |
| 22 | 11.922 | 11.779 | 11.970 | BV | 482046 | 5342931 | 86.16% | 25.901% |
| 23 | 12.321 | 12.291 | 12.346 | VV | 5245 | 62185 | 1.00% | 0.301% |
| 24 | 12.514 | 12.451 | 12.619 | BB | 34085 | 404530 | 6.52% | 1.961% |
| 25 | 12.771 | 12.692 | 12.792 | BV | 1723 | 23803 | 0.38% | 0.115% |
| 26 | 12.910 | 12.886 | 12.931 | BV | 1922 | 24025 | 0.39% | 0.116% |
| 27 | 12.968 | 12.931 | 13.011 | PB | 7024 | 86281 | 1.39% | 0.418% |
| 28 | 13.266 | 13.227 | 13.292 | BV | 6362 | 70832 | 1.14% | 0.343% |
| 29 | 13.356 | 13.292 | 13.388 | VV | 69901 | 848893 | 13.69% | 4.115% |
| 30 | 13.576 | 13.552 | 13.617 | VV | 2695 | 39799 | 0.64% | 0.193% |
| 31 | 13.747 | 13.691 | 13.806 | BB | 8587 | 105147 | 1.70% | 0.510% |
| 32 | 15.049 | 14.922 | 15.080 | BV | 3929 | 64061 | 1.03% | 0.311% |
| 33 | 15.143 | 15.116 | 15.162 | VV | 9471 | 119840 | 1.93% | 0.581% |
| 34 | 15.184 | 15.162 | 15.234 | VV | 10112 | 163219 | 2.63% | 0.791% |
| 35 | 15.256 | 15.234 | 15.286 | VV | 5744 | 74605 | 1.20% | 0.362% |
| 36 | 15.591 | 15.536 | 15.662 | BV | 10397 | 186189 | 3.00% | 0.903% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 15.750 | 15.707 | 15.797 | PV | 1757 | 30287 | 0.49% | 0.147% |
| 38 | 16.611 | 16.547 | 16.646 | PV | 1377 | 31430 | 0.51% | 0.152% |
| 39 | 16.699 | 16.646 | 16.714 | VV | 11094 | 149168 | 2.41% | 0.723% |
| 40 | 16.728 | 16.714 | 16.771 | VV | 10075 | 131374 | 2.12% | 0.637% |
| 41 | 17.018 | 16.974 | 17.046 | BV | 4540 | 72985 | 1.18% | 0.354% |
| 42 | 17.077 | 17.046 | 17.129 | VV | 13209 | 181732 | 2.93% | 0.881% |
| 43 | 17.182 | 17.129 | 17.209 | VV | 3505 | 59599 | 0.96% | 0.289% |
| 44 | 17.233 | 17.209 | 17.291 | VB | 3776 | 65215 | 1.05% | 0.316% |
| 45 | 18.071 | 17.806 | 18.112 | BB | 2839 | 53240 | 0.86% | 0.258% |
| 46 | 18.160 | 18.124 | 18.189 | BV | 5015 | 72257 | 1.17% | 0.350% |
| 47 | 18.446 | 18.411 | 18.466 | BV | 32508 | 476916 | 7.69% | 2.312% |
| 48 | 18.487 | 18.466 | 18.554 | VV | 41377 | 586928 | 9.46% | 2.845% |
| 49 | 18.700 | 18.661 | 18.800 | BBA | 26065 | 357211 | 5.76% | 1.732% |

Sum of corrected areas: 20628321

Aromatic EPH 111524.M Wed Nov 20 02:26:32 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FG014864.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 0.39 | 1.03 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.25 | U | 0.25 | 0.69 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.31 | U | 0.31 | 1.03 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.83 | U | 0.83 | 1.38 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.86 | U | 1.86 | 2.07 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 40.7 | | 40 - 140 | 81% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-07 | Acq On: | 19 Nov 2024 11:19 |
| Client Sample ID: | PH2-BOT-008 | Operator: | YP\AJ |
| Data file: | FG014864.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 22 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 42066 | 0.304 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 406458 | 2.9 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 55291 | 0.411 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 503815 | 3.616 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.386 | 13.386 | 4521780 | 40.69 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 503815 | 3.615 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014864.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:19
Operator : YP\AJ
Sample : P4860-07
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-008

Integration File: autoint1.e
Quant Time: Nov 20 00:35:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.386 | 4521780 | 40.690 ug/ml |
| Spiked Amount 50.000 | | Recovery = 81.38% | |
| Target Compounds | | | |

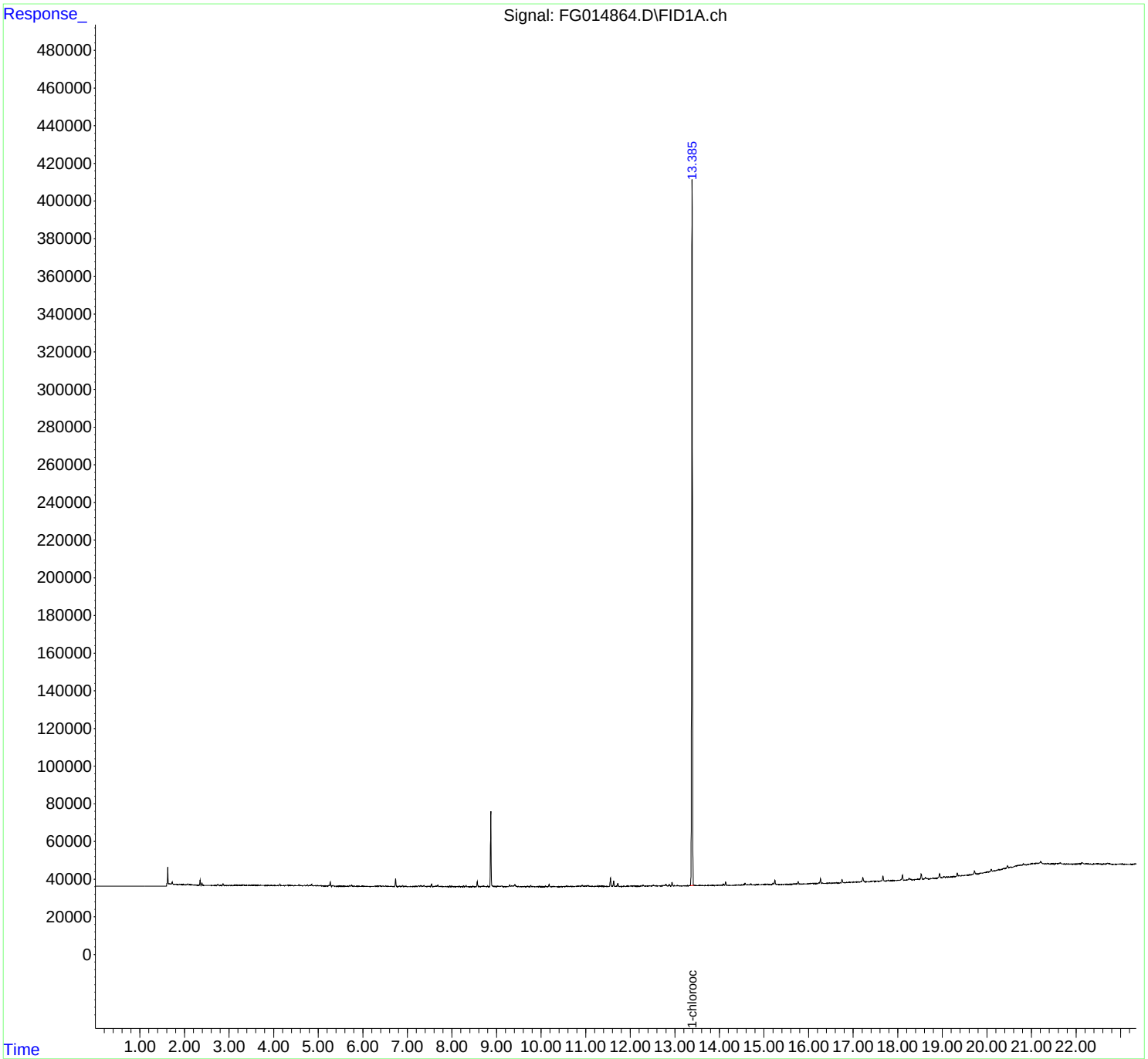
(f)=RT Delta > 1/2 Window (m)=manual int.

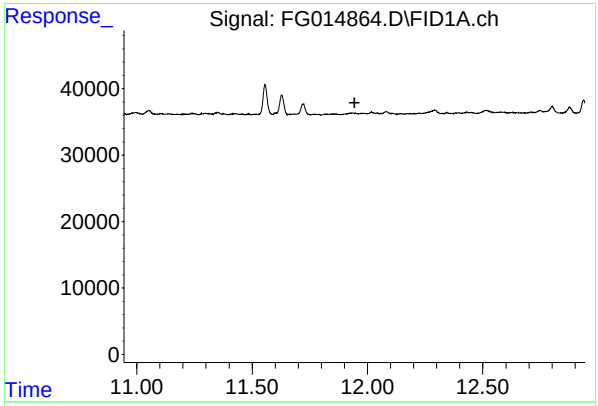
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014864.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:19
Operator : YP\AJ
Sample : P4860-07
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-008

Integration File: autoint1.e
Quant Time: Nov 20 00:35:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

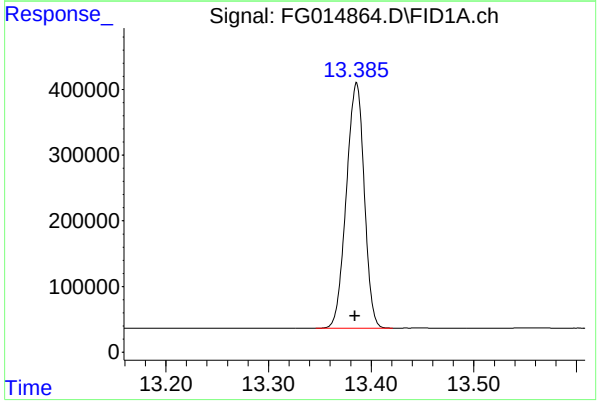





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-008




#12 1-chlorooctadecane (SURR)

R.T.: 13.386 min
Delta R.T.: 0.001 min
Response: 4521780
Conc: 40.69 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014864.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:19
Sample : P4860-07
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 6.737 | 6.714 | 6.761 | BB | 4140 | 42066 | 0.93% | 0.837% |
| 2 | 8.872 | 8.838 | 8.912 | BB | 39875 | 406458 | 8.99% | 8.088% |
| 3 | 11.556 | 11.530 | 11.590 | BB | 4512 | 55291 | 1.22% | 1.100% |
| 4 | 13.386 | 13.346 | 13.421 | BB | 374823 | 4521780 | 100.00% | 89.975% |
| | | | Sum of corrected areas: | | | 5025595 | | |

Aliphatic EPH 111424.M Wed Nov 20 01:23:10 2024

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 11:47 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FG014865.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.40 | J | 1 | 0.24 | 0.68 | mg/kg | FG014865.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.31 | U | 1 | 0.31 | 1.02 | mg/kg | FG014865.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 1.12 | J | 1 | 0.81 | 1.36 | mg/kg | FG014865.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.77 | | 1 | 1.83 | 2.04 | mg/kg | FG014865.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FF015096.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 1 | 0.35 | 1.02 | mg/kg | FF015096.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.98 | U | 1 | 0.98 | 1.70 | mg/kg | FF015096.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.04 | U | 1 | 2.04 | 2.71 | mg/kg | FF015096.D |
| Total AliphaticEPH | Total AliphaticEPH | 4.29 | J | | 3.58 | 6.12 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.67 | U | | 3.67 | 6.11 | mg/kg | |
| Total EPH | Total EPH | 7.25 | U | | 7.25 | 12.2 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | 11/14/24 | |
| Project: | Ocean County Landfill 2024 | | Date Received: | 11/14/24 | |
| Client Sample ID: | PH2-BOT-007 | | SDG No.: | P4860 | |
| Lab Sample ID: | P4860-08 | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 98 | |
| Sample Wt/Vol: | 30.08 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FF015096.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.98 | U | 0.98 | 1.70 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.04 | U | 2.04 | 2.71 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 51.9 | | 40 - 140 | 104% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 48.6 | | 40 - 140 | 97% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 24.5 | | 40 - 140 | 49% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-08 | Acq On: | 19 Nov 2024 11:47 |
| Client Sample ID: | PH2-BOT-007 | Operator: | YP\AJ |
| Data file: | FF015096.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 73 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 173154 | 1.266 | 200 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 86456 | 0.64 | 300 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 1581781 | 12.368 | 500 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 1301710 | 10.681 | 800 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 3143101 | 24.955 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.988 | 7.988 | 6337278 | 51.9 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.861 | 8.861 | 3970343 | 48.63 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.921 | 11.921 | 3285749 | 24.49 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015096.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:47
Operator : YP\AJ
Sample : P4860-08
Misc :
ALS Vial : 73 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-007

Integration File: autoint1.e
Quant Time: Nov 20 01:47:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.988 | 6337278 | 51.895 ug/ml |
| Spiked Amount 50.000 | | Recovery = 103.79% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.861 | 3970343 | 48.632 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 97.26% | |
| 11) S ortho-Terphenyl (SURR) | 11.921 | 3285749 | 24.494 ug/ml |
| Spiked Amount 50.000 | | Recovery = 48.99% | |
| **Target Compounds** | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

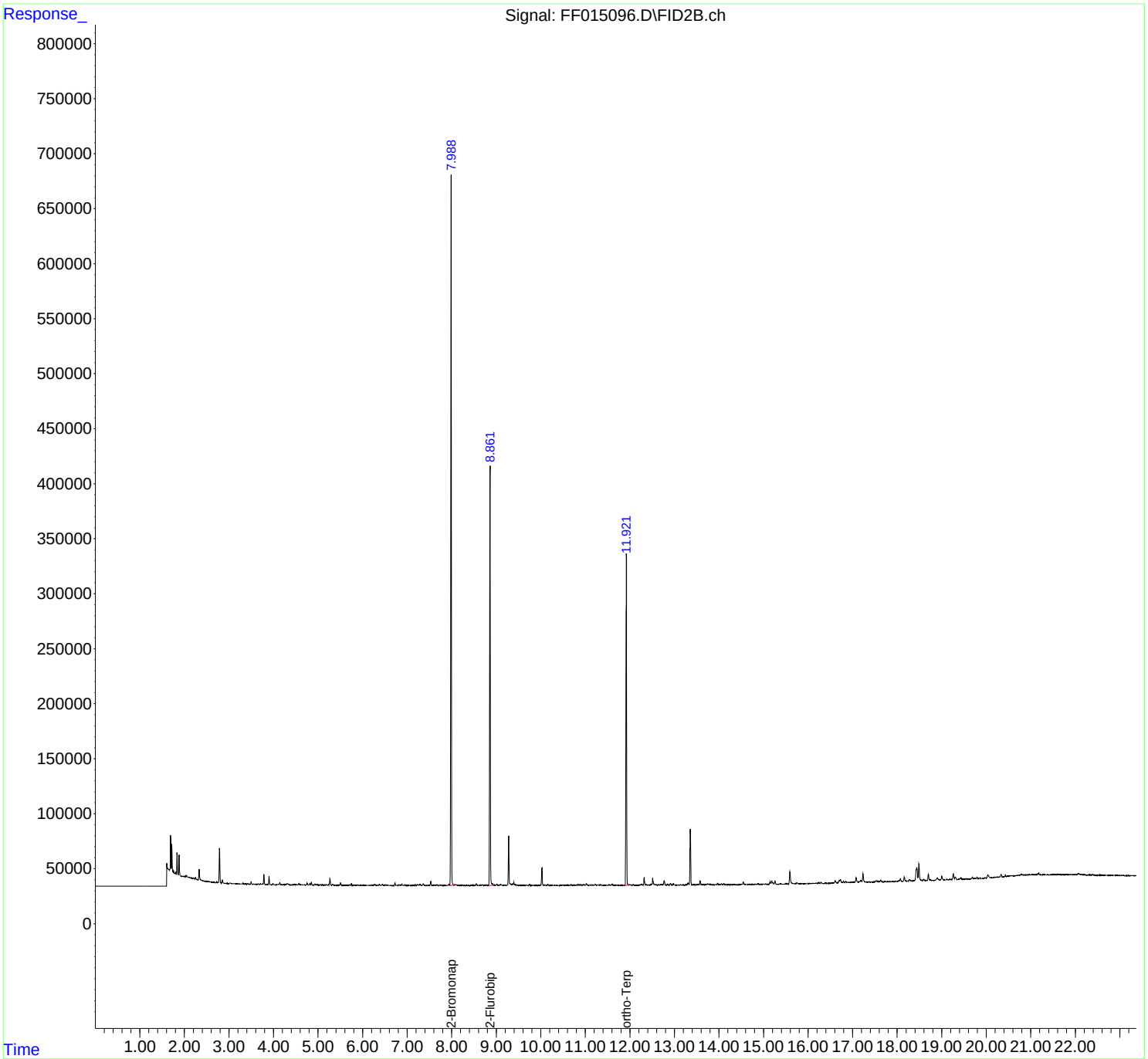
Quantitation Report (QT Reviewed)

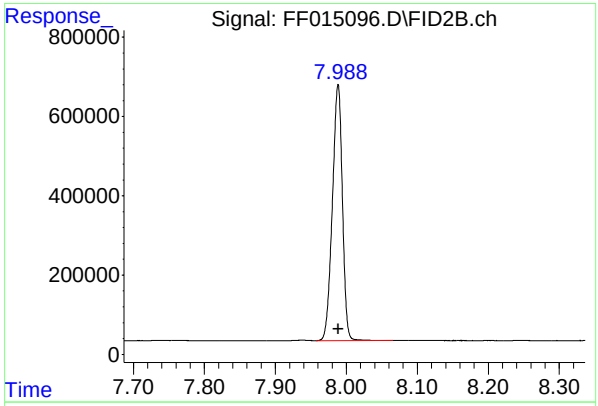
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015096.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:47
Operator : YP\AJ
Sample : P4860-08
Misc :
ALS Vial : 73 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-007

Integration File: autoint1.e
Quant Time: Nov 20 01:47:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

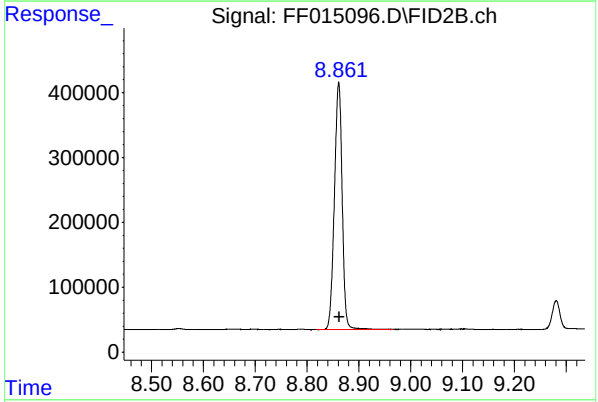





#4 2-Bromonaphthalene (SURR)

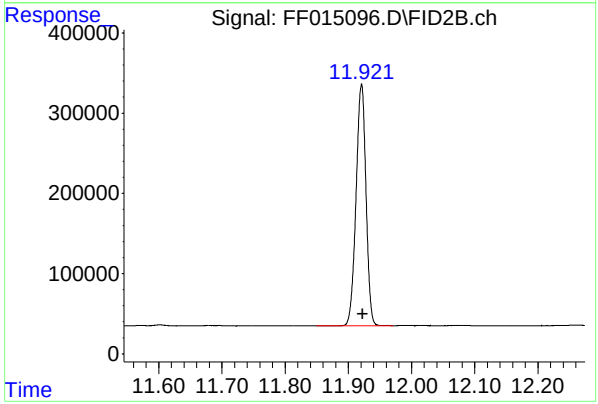
R.T.: 7.988 min
Delta R.T.: 0.000 mi
Response: 6337278
Conc: 51.90 ug/m

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-007




#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: -0.001 min
Response: 3970343
Conc: 48.63 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.921 min
Delta R.T.: -0.002 min
Response: 3285749
Conc: 24.49 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015096.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:47
Sample : P4860-08
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.756 | 4.721 | 4.777 | BV | 1824 | 22513 | 0.36% | 0.135% |
| 2 | 4.851 | 4.833 | 4.896 | VB | 2626 | 28384 | 0.45% | 0.170% |
| 3 | 5.267 | 5.202 | 5.299 | BV | 5756 | 76094 | 1.20% | 0.455% |
| 4 | 5.506 | 5.434 | 5.547 | BB | 2459 | 29406 | 0.46% | 0.176% |
| 5 | 5.746 | 5.729 | 5.767 | BV | 1675 | 16757 | 0.26% | 0.100% |
| 6 | 6.728 | 6.679 | 6.751 | BV | 2212 | 23160 | 0.37% | 0.138% |
| 7 | 7.365 | 7.334 | 7.389 | PB | 1665 | 22376 | 0.35% | 0.134% |
| 8 | 7.530 | 7.496 | 7.562 | BV | 3794 | 40920 | 0.65% | 0.244% |
| 9 | 7.988 | 7.957 | 8.066 | PV | 650311 | 6337278 | 100.00% | 37.865% |
| 10 | 8.861 | 8.817 | 8.966 | BB | 381067 | 3970343 | 62.65% | 23.723% |
| 11 | 9.281 | 9.229 | 9.344 | BV | 44831 | 487122 | 7.69% | 2.911% |
| 12 | 9.396 | 9.374 | 9.417 | VV | 2106 | 25514 | 0.40% | 0.152% |
| 13 | 10.026 | 9.904 | 10.064 | BV | 15795 | 176387 | 2.78% | 1.054% |
| 14 | 11.921 | 11.849 | 11.971 | BV | 300523 | 3285749 | 51.85% | 19.632% |
| 15 | 12.322 | 12.291 | 12.347 | VV | 6998 | 82947 | 1.31% | 0.496% |
| 16 | 12.512 | 12.451 | 12.594 | BB | 6192 | 97277 | 1.54% | 0.581% |
| 17 | 12.771 | 12.602 | 12.816 | BB | 3946 | 69746 | 1.10% | 0.417% |
| 18 | 13.305 | 13.283 | 13.325 | VV | 1902 | 27081 | 0.43% | 0.162% |
| 19 | 13.355 | 13.325 | 13.392 | VV | 50990 | 615707 | 9.72% | 3.679% |
| 20 | 13.575 | 13.392 | 13.615 | VV | 3759 | 73315 | 1.16% | 0.438% |
| 21 | 14.544 | 14.517 | 14.599 | VB | 2399 | 33384 | 0.53% | 0.199% |
| 22 | 15.144 | 15.089 | 15.164 | BV | 2468 | 34719 | 0.55% | 0.207% |
| 23 | 15.184 | 15.164 | 15.232 | VV | 3016 | 63840 | 1.01% | 0.381% |
| 24 | 15.256 | 15.232 | 15.287 | VB | 3073 | 41051 | 0.65% | 0.245% |
| 25 | 15.589 | 15.554 | 15.669 | BB | 11056 | 179351 | 2.83% | 1.072% |
| 26 | 16.605 | 16.542 | 16.654 | BB | 1919 | 31030 | 0.49% | 0.185% |
| 27 | 16.699 | 16.661 | 16.712 | BV | 2308 | 32422 | 0.51% | 0.194% |
| 28 | 16.727 | 16.712 | 16.764 | VV | 2935 | 42198 | 0.67% | 0.252% |
| 29 | 17.077 | 16.961 | 17.127 | BV | 4095 | 65504 | 1.03% | 0.391% |
| 30 | 17.184 | 17.162 | 17.206 | VV | 1707 | 27727 | 0.44% | 0.166% |
| 31 | 17.232 | 17.206 | 17.299 | VB | 7412 | 106017 | 1.67% | 0.633% |
| 32 | 18.071 | 17.982 | 18.101 | VB | 2461 | 51849 | 0.82% | 0.310% |
| 33 | 18.160 | 18.124 | 18.202 | BV | 4067 | 59298 | 0.94% | 0.354% |
| 34 | 18.443 | 18.411 | 18.465 | BV | 8976 | 188107 | 2.97% | 1.124% |
| 35 | 18.487 | 18.465 | 18.562 | VV | 13746 | 178893 | 2.82% | 1.069% |
| 36 | 18.700 | 18.661 | 18.771 | BB | 6051 | 93005 | 1.47% | 0.556% |

rteres
Sum of corrected areas: 16736471

Aromatic EPH 111524.M Wed Nov 20 02:26:58 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FG014865.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.40 | J | 0.24 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.31 | U | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 1.12 | J | 0.81 | 1.36 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.77 | | 1.83 | 2.04 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 31.6 | | 40 - 140 | 63% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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

# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-08 | Acq On: | 19 Nov 2024 11:47 |
| Client Sample ID: | PH2-BOT-007 | Operator: | YP\AJ |
| Data file: | FG014865.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 23 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 431207 | 3.12 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 817941 | 5.836 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 575829 | 4.284 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 2035304 | 16.476 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 4233534 | 40.829 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 8093815 | 70.544 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.385 | 13.385 | 3506832 | 31.56 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 3860281 | 29.716 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014865.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:47
Operator : YP\AJ
Sample : P4860-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-007

Integration File: autoint1.e
Quant Time: Nov 20 00:35:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.385 | 3506832 | 31.556 ug/ml |
| Spiked Amount 50.000 | | Recovery = 63.11% | |
| Target Compounds | | | |

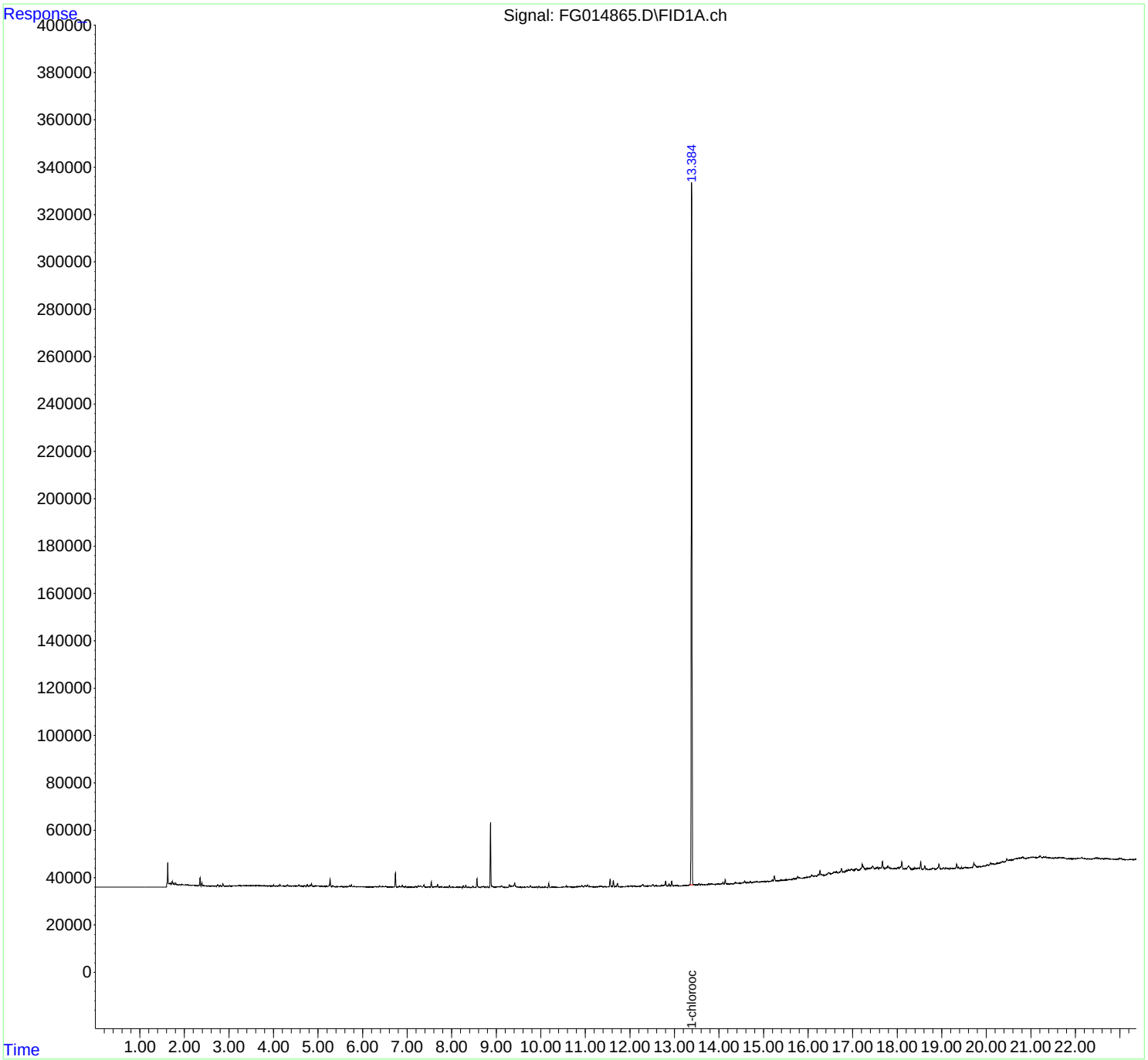
(f)=RT Delta > 1/2 Window (m)=manual int.

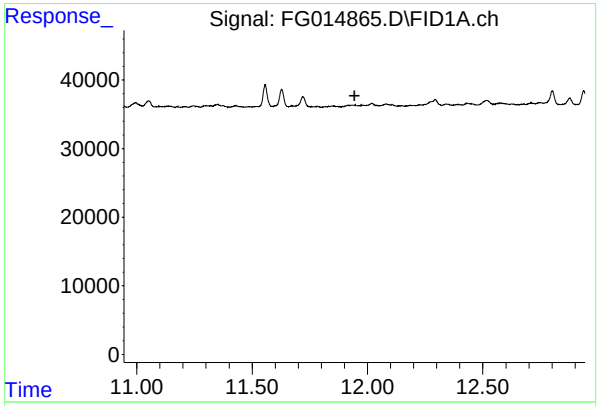
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014865.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:47
Operator : YP\AJ
Sample : P4860-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-007

Integration File: autoint1.e
Quant Time: Nov 20 00:35:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

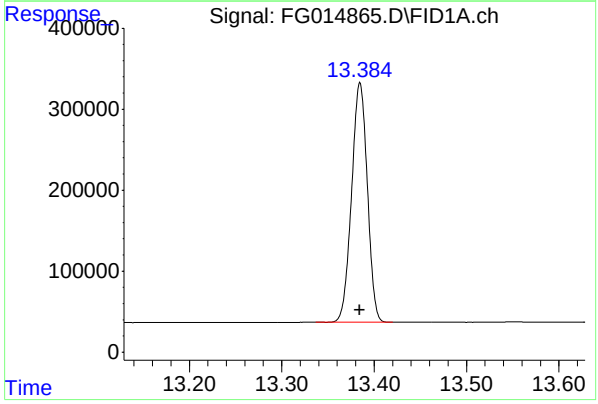





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-007




#12 1-chlorooctadecane (SURR)

R.T.: 13.385 min
Delta R.T.: 0.000 min
Response: 3506832
Conc: 31.56 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014865.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:47
Sample : P4860-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.279 | 3.222 | 3.290 | BV | 35 | 419 | 0.01% | 0.004% |
| 2 | 3.322 | 3.290 | 3.355 | PV | 209 | 2660 | 0.08% | 0.023% |
| 3 | 3.362 | 3.355 | 3.372 | VV | 62 | 458 | 0.01% | 0.004% |
| 4 | 3.384 | 3.372 | 3.396 | VV | 81 | 710 | 0.02% | 0.006% |
| 5 | 3.413 | 3.396 | 3.452 | VV | 107 | 2153 | 0.06% | 0.019% |
| 6 | 3.472 | 3.452 | 3.485 | VV | 137 | 1910 | 0.05% | 0.016% |
| 7 | 3.493 | 3.485 | 3.498 | VV | 150 | 878 | 0.02% | 0.008% |
| 8 | 3.509 | 3.498 | 3.545 | VV | 235 | 3911 | 0.11% | 0.034% |
| 9 | 3.553 | 3.545 | 3.589 | VV | 171 | 3360 | 0.10% | 0.029% |
| 10 | 3.597 | 3.589 | 3.609 | VV | 140 | 1629 | 0.05% | 0.014% |
| 11 | 3.629 | 3.609 | 3.683 | VV | 215 | 6777 | 0.19% | 0.058% |
| 12 | 3.708 | 3.683 | 3.733 | VV | 336 | 4964 | 0.14% | 0.043% |
| 13 | 3.762 | 3.733 | 3.779 | VV | 199 | 3980 | 0.11% | 0.034% |
| 14 | 3.794 | 3.779 | 3.841 | VV | 181 | 3935 | 0.11% | 0.034% |
| 15 | 3.852 | 3.841 | 3.882 | VV | 85 | 1431 | 0.04% | 0.012% |
| 16 | 3.909 | 3.882 | 3.965 | VV | 194 | 3963 | 0.11% | 0.034% |
| 17 | 3.999 | 3.965 | 4.046 | VV | 517 | 6858 | 0.19% | 0.059% |
| 18 | 4.069 | 4.046 | 4.082 | PV | 112 | 1329 | 0.04% | 0.011% |
| 19 | 4.112 | 4.082 | 4.129 | VV | 378 | 5104 | 0.15% | 0.044% |
| 20 | 4.145 | 4.129 | 4.194 | VV | 784 | 9929 | 0.28% | 0.086% |
| 21 | 4.221 | 4.194 | 4.252 | VV | 189 | 4809 | 0.14% | 0.041% |
| 22 | 4.315 | 4.252 | 4.412 | VV | 576 | 20033 | 0.57% | 0.173% |
| 23 | 4.442 | 4.412 | 4.455 | VV | 168 | 3627 | 0.10% | 0.031% |
| 24 | 4.466 | 4.455 | 4.552 | VV | 200 | 9921 | 0.28% | 0.085% |
| 25 | 4.569 | 4.552 | 4.599 | VV | 752 | 10406 | 0.30% | 0.090% |
| 26 | 4.608 | 4.599 | 4.627 | VV | 256 | 3269 | 0.09% | 0.028% |
| 27 | 4.646 | 4.627 | 4.667 | VV | 154 | 3213 | 0.09% | 0.028% |
| 28 | 4.694 | 4.667 | 4.724 | VV | 521 | 8172 | 0.23% | 0.070% |
| 29 | 4.759 | 4.724 | 4.798 | VV | 940 | 14911 | 0.42% | 0.128% |
| 30 | 4.821 | 4.798 | 4.835 | VV | 707 | 8560 | 0.24% | 0.074% |
| 31 | 4.854 | 4.835 | 4.889 | VV | 1332 | 16810 | 0.48% | 0.145% |
| 32 | 4.895 | 4.889 | 4.905 | VV | 219 | 1870 | 0.05% | 0.016% |
| 33 | 4.935 | 4.905 | 4.958 | VV | 265 | 7063 | 0.20% | 0.061% |
| 34 | 4.985 | 4.958 | 5.010 | VV | 359 | 8815 | 0.25% | 0.076% |
| 35 | 5.019 | 5.010 | 5.047 | VV | 224 | 4585 | 0.13% | 0.039% |
| 36 | 5.061 | 5.047 | 5.094 | VV | 253 | 5320 | 0.15% | 0.046% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.113 | 5.094 | 5.152 | VV | 154 | 3806 | 0.11% | 0.033% |
| 38 | 5.183 | 5.152 | 5.203 | VV | 309 | 5200 | 0.15% | 0.045% |
| 39 | 5.271 | 5.203 | 5.303 | VV | 3202 | 45934 | 1.31% | 0.396% |
| 40 | 5.332 | 5.303 | 5.372 | VV | 633 | 8640 | 0.25% | 0.074% |
| 41 | 5.386 | 5.372 | 5.427 | VV | 80 | 1449 | 0.04% | 0.012% |
| 42 | 5.478 | 5.427 | 5.499 | PV | 133 | 3554 | 0.10% | 0.031% |
| 43 | 5.515 | 5.499 | 5.546 | VV | 280 | 3826 | 0.11% | 0.033% |
| 44 | 5.553 | 5.546 | 5.564 | VV | 67 | 605 | 0.02% | 0.005% |
| 45 | 5.583 | 5.564 | 5.602 | VV | 143 | 2041 | 0.06% | 0.018% |
| 46 | 5.609 | 5.602 | 5.620 | VV | 71 | 785 | 0.02% | 0.007% |
| 47 | 5.670 | 5.620 | 5.682 | VV | 159 | 2933 | 0.08% | 0.025% |
| 48 | 5.706 | 5.682 | 5.726 | VV | 607 | 7383 | 0.21% | 0.064% |
| 49 | 5.751 | 5.726 | 5.772 | VV | 989 | 10941 | 0.31% | 0.094% |
| 50 | 5.809 | 5.772 | 5.846 | VV | 301 | 4525 | 0.13% | 0.039% |
| 51 | 5.892 | 5.846 | 5.935 | VV | 193 | 5353 | 0.15% | 0.046% |
| 52 | 5.942 | 5.935 | 5.950 | VV | 78 | 477 | 0.01% | 0.004% |
| 53 | 5.973 | 5.950 | 5.995 | VV | 86 | 1590 | 0.05% | 0.014% |
| 54 | 6.016 | 5.995 | 6.069 | VV | 208 | 3562 | 0.10% | 0.031% |
| 55 | 6.076 | 6.069 | 6.122 | VV | 65 | 978 | 0.03% | 0.008% |
| 56 | 6.137 | 6.122 | 6.169 | VV | 63 | 457 | 0.01% | 0.004% |
| 57 | 6.185 | 6.169 | 6.203 | VV | 117 | 1294 | 0.04% | 0.011% |
| 58 | 6.213 | 6.203 | 6.226 | VV | 69 | 638 | 0.02% | 0.005% |
| 59 | 6.278 | 6.226 | 6.322 | VV | 307 | 7588 | 0.22% | 0.065% |
| 60 | 6.337 | 6.322 | 6.362 | VV | 251 | 4075 | 0.12% | 0.035% |
| 61 | 6.382 | 6.362 | 6.410 | VV | 643 | 8961 | 0.25% | 0.077% |
| 62 | 6.449 | 6.410 | 6.475 | VV | 435 | 8520 | 0.24% | 0.073% |
| 63 | 6.521 | 6.475 | 6.589 | VV | 310 | 10976 | 0.31% | 0.095% |
| 64 | 6.606 | 6.589 | 6.687 | VV | 113 | 4745 | 0.13% | 0.041% |
| 65 | 6.737 | 6.687 | 6.764 | VV | 6061 | 63348 | 1.80% | 0.546% |
| 66 | 6.784 | 6.764 | 6.805 | VV | 172 | 2754 | 0.08% | 0.024% |
| 67 | 6.824 | 6.805 | 6.844 | VV | 542 | 6527 | 0.19% | 0.056% |
| 68 | 6.860 | 6.844 | 6.873 | VV | 295 | 3284 | 0.09% | 0.028% |
| 69 | 6.892 | 6.873 | 6.912 | VV | 900 | 9973 | 0.28% | 0.086% |
| 70 | 6.928 | 6.912 | 6.945 | VV | 290 | 3169 | 0.09% | 0.027% |
| 71 | 6.966 | 6.945 | 6.999 | VV | 471 | 5149 | 0.15% | 0.044% |
| 72 | 7.015 | 6.999 | 7.039 | VV | 105 | 1126 | 0.03% | 0.010% |
| 73 | 7.060 | 7.039 | 7.082 | PV | 103 | 1421 | 0.04% | 0.012% |
| 74 | 7.116 | 7.082 | 7.136 | VV | 100 | 2315 | 0.07% | 0.020% |
| 75 | 7.145 | 7.136 | 7.169 | VV | 100 | 998 | 0.03% | 0.009% |
| 76 | 7.195 | 7.169 | 7.224 | VV | 543 | 6611 | 0.19% | 0.057% |
| 77 | 7.248 | 7.224 | 7.281 | VV | 706 | 12190 | 0.35% | 0.105% |
| 78 | 7.299 | 7.281 | 7.342 | VV | 608 | 13893 | 0.39% | 0.120% |
| 79 | 7.377 | 7.342 | 7.402 | VV | 968 | 16167 | 0.46% | 0.139% |
| 80 | 7.417 | 7.402 | 7.435 | VV | 203 | 2717 | 0.08% | 0.023% |
| 81 | 7.484 | 7.435 | 7.519 | VV | 287 | 8097 | 0.23% | 0.070% |
| 82 | 7.543 | 7.519 | 7.579 | VV | 2380 | 27291 | 0.78% | 0.235% |
| 83 | 7.584 | 7.579 | 7.589 | VV | 169 | 793 | 0.02% | 0.007% |
| 84 | 7.605 | 7.589 | 7.635 | VV | 287 | 5828 | 0.17% | 0.050% |
| 85 | 7.652 | 7.635 | 7.664 | VV | 384 | 4520 | 0.13% | 0.039% |
| 86 | 7.685 | 7.664 | 7.712 | VV | 1246 | 15876 | 0.45% | 0.137% |
| 87 | 7.751 | 7.712 | 7.765 | VV | 373 | 6165 | 0.18% | 0.053% |
| 88 | 7.779 | 7.765 | 7.816 | VV | 426 | 5324 | 0.15% | 0.046% |
| 89 | 7.827 | 7.816 | 7.835 | VV | 100 | 761 | 0.02% | 0.007% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.845 | 7.835 | 7.877 | VV | 161 | 2458 | 0.07% | 0.021% |
| 91 | 7.898 | 7.877 | 7.922 | VV | 160 | 2097 | 0.06% | 0.018% |
| 92 | 7.952 | 7.922 | 7.984 | VV | 883 | 9667 | 0.27% | 0.083% |
| 93 | 8.001 | 7.984 | 8.016 | VV | 317 | 3031 | 0.09% | 0.026% |
| 94 | 8.043 | 8.016 | 8.082 | VV | 176 | 3743 | 0.11% | 0.032% |
| 95 | 8.118 | 8.082 | 8.135 | VV | 222 | 5311 | 0.15% | 0.046% |
| 96 | 8.146 | 8.135 | 8.161 | VV | 173 | 2394 | 0.07% | 0.021% |
| 97 | 8.172 | 8.161 | 8.198 | VV | 170 | 2230 | 0.06% | 0.019% |
| 98 | 8.217 | 8.198 | 8.238 | VV | 262 | 2687 | 0.08% | 0.023% |
| 99 | 8.261 | 8.238 | 8.287 | PV | 835 | 9486 | 0.27% | 0.082% |
| 100 | 8.317 | 8.287 | 8.341 | VV | 1036 | 11857 | 0.34% | 0.102% |
| 101 | 8.355 | 8.341 | 8.373 | VV | 184 | 2649 | 0.08% | 0.023% |
| 102 | 8.390 | 8.373 | 8.406 | VV | 132 | 2189 | 0.06% | 0.019% |
| 103 | 8.418 | 8.406 | 8.429 | VV | 124 | 1179 | 0.03% | 0.010% |
| 104 | 8.474 | 8.429 | 8.541 | VV | 541 | 10527 | 0.30% | 0.091% |
| 105 | 8.568 | 8.541 | 8.643 | VV | 3680 | 46325 | 1.32% | 0.399% |
| 106 | 8.667 | 8.643 | 8.700 | VV | 417 | 10216 | 0.29% | 0.088% |
| 107 | 8.716 | 8.700 | 8.745 | VV | 442 | 7927 | 0.23% | 0.068% |
| 108 | 8.764 | 8.745 | 8.787 | VV | 391 | 5499 | 0.16% | 0.047% |
| 109 | 8.806 | 8.787 | 8.836 | VV | 465 | 5719 | 0.16% | 0.049% |
| 110 | 8.872 | 8.836 | 8.913 | PV | 27523 | 280684 | 7.98% | 2.417% |
| 111 | 8.922 | 8.913 | 8.956 | VV | 450 | 7708 | 0.22% | 0.066% |
| 112 | 8.989 | 8.956 | 9.005 | VV | 276 | 6457 | 0.18% | 0.056% |
| 113 | 9.032 | 9.005 | 9.051 | VV | 455 | 8830 | 0.25% | 0.076% |
| 114 | 9.063 | 9.051 | 9.094 | VV | 405 | 7898 | 0.22% | 0.068% |
| 115 | 9.113 | 9.094 | 9.156 | VV | 758 | 16372 | 0.47% | 0.141% |
| 116 | 9.177 | 9.156 | 9.208 | VV | 269 | 4106 | 0.12% | 0.035% |
| 117 | 9.229 | 9.208 | 9.249 | PV | 356 | 4251 | 0.12% | 0.037% |
| 118 | 9.295 | 9.249 | 9.313 | VV | 1263 | 18004 | 0.51% | 0.155% |
| 119 | 9.333 | 9.313 | 9.349 | VV | 870 | 13593 | 0.39% | 0.117% |
| 120 | 9.373 | 9.349 | 9.383 | VV | 699 | 11865 | 0.34% | 0.102% |
| 121 | 9.415 | 9.383 | 9.472 | VV | 1973 | 40840 | 1.16% | 0.352% |
| 122 | 9.486 | 9.472 | 9.510 | VV | 451 | 5435 | 0.15% | 0.047% |
| 123 | 9.536 | 9.510 | 9.562 | VV | 390 | 4694 | 0.13% | 0.040% |
| 124 | 9.589 | 9.562 | 9.605 | VV | 242 | 3542 | 0.10% | 0.031% |
| 125 | 9.616 | 9.605 | 9.667 | VV | 226 | 6052 | 0.17% | 0.052% |
| 126 | 9.701 | 9.667 | 9.745 | VV | 404 | 9140 | 0.26% | 0.079% |
| 127 | 9.766 | 9.745 | 9.804 | VV | 808 | 11859 | 0.34% | 0.102% |
| 128 | 9.823 | 9.804 | 9.833 | VV | 193 | 2210 | 0.06% | 0.019% |
| 129 | 9.860 | 9.833 | 9.884 | VV | 173 | 3556 | 0.10% | 0.031% |
| 130 | 9.906 | 9.884 | 9.928 | VV | 374 | 5336 | 0.15% | 0.046% |
| 131 | 9.959 | 9.928 | 10.028 | VV | 589 | 9023 | 0.26% | 0.078% |
| 132 | 10.047 | 10.028 | 10.075 | VV | 156 | 1986 | 0.06% | 0.017% |
| 133 | 10.098 | 10.075 | 10.159 | PV | 442 | 6493 | 0.18% | 0.056% |
| 134 | 10.180 | 10.159 | 10.212 | VV | 1672 | 19840 | 0.56% | 0.171% |
| 135 | 10.223 | 10.212 | 10.232 | VV | 63 | 505 | 0.01% | 0.004% |
| 136 | 10.253 | 10.232 | 10.270 | VV | 248 | 4089 | 0.12% | 0.035% |
| 137 | 10.279 | 10.270 | 10.300 | VV | 218 | 2714 | 0.08% | 0.023% |
| 138 | 10.328 | 10.300 | 10.338 | VV | 116 | 2138 | 0.06% | 0.018% |
| 139 | 10.351 | 10.338 | 10.414 | VV | 139 | 2705 | 0.08% | 0.023% |
| 140 | 10.425 | 10.414 | 10.439 | PV | 40 | 402 | 0.01% | 0.003% |
| 141 | 10.460 | 10.439 | 10.475 | VV | 166 | 2162 | 0.06% | 0.019% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.504 | 10.475 | 10.537 | VV | 306 | 6258 | 0.18% | 0.054% |
| 143 | 10.573 | 10.537 | 10.595 | VV | 606 | 10541 | 0.30% | 0.091% |
| 144 | 10.612 | 10.595 | 10.634 | VV | 357 | 5410 | 0.15% | 0.047% |
| 145 | 10.661 | 10.634 | 10.679 | VV | 281 | 4882 | 0.14% | 0.042% |
| 146 | 10.703 | 10.679 | 10.725 | VV | 235 | 3604 | 0.10% | 0.031% |
| 147 | 10.740 | 10.725 | 10.755 | VV | 124 | 1421 | 0.04% | 0.012% |
| 148 | 10.785 | 10.755 | 10.798 | VV | 318 | 4630 | 0.13% | 0.040% |
| 149 | 10.819 | 10.798 | 10.834 | VV | 260 | 4499 | 0.13% | 0.039% |
| 150 | 10.857 | 10.834 | 10.885 | VV | 418 | 9033 | 0.26% | 0.078% |
| 151 | 10.921 | 10.885 | 10.957 | VV | 849 | 18419 | 0.52% | 0.159% |
| 152 | 10.994 | 10.957 | 11.024 | VV | 770 | 18413 | 0.52% | 0.159% |
| 153 | 11.051 | 11.024 | 11.120 | VV | 1038 | 23794 | 0.68% | 0.205% |
| 154 | 11.136 | 11.120 | 11.164 | VV | 275 | 5153 | 0.15% | 0.044% |
| 155 | 11.175 | 11.164 | 11.190 | VV | 206 | 1896 | 0.05% | 0.016% |
| 156 | 11.208 | 11.190 | 11.223 | VV | 180 | 2610 | 0.07% | 0.022% |
| 157 | 11.246 | 11.223 | 11.275 | VV | 297 | 5884 | 0.17% | 0.051% |
| 158 | 11.299 | 11.275 | 11.328 | VV | 310 | 7901 | 0.22% | 0.068% |
| 159 | 11.349 | 11.328 | 11.404 | VV | 448 | 12423 | 0.35% | 0.107% |
| 160 | 11.428 | 11.404 | 11.468 | VV | 295 | 6422 | 0.18% | 0.055% |
| 161 | 11.485 | 11.468 | 11.498 | VV | 148 | 2040 | 0.06% | 0.018% |
| 162 | 11.556 | 11.498 | 11.586 | VV | 3386 | 46344 | 1.32% | 0.399% |
| 163 | 11.628 | 11.586 | 11.658 | VV | 2652 | 38713 | 1.10% | 0.333% |
| 164 | 11.720 | 11.658 | 11.766 | VV | 1570 | 29022 | 0.82% | 0.250% |
| 165 | 11.781 | 11.766 | 11.800 | VV | 187 | 1854 | 0.05% | 0.016% |
| 166 | 11.854 | 11.800 | 11.895 | PV | 175 | 5653 | 0.16% | 0.049% |
| 167 | 11.944 | 11.895 | 11.964 | VV | 282 | 9011 | 0.26% | 0.078% |
| 168 | 12.019 | 11.964 | 12.055 | VV | 527 | 14592 | 0.41% | 0.126% |
| 169 | 12.081 | 12.055 | 12.126 | VV | 418 | 10879 | 0.31% | 0.094% |
| 170 | 12.149 | 12.126 | 12.160 | VV | 147 | 2024 | 0.06% | 0.017% |
| 171 | 12.186 | 12.160 | 12.209 | VV | 168 | 3432 | 0.10% | 0.030% |
| 172 | 12.227 | 12.209 | 12.239 | VV | 252 | 3389 | 0.10% | 0.029% |
| 173 | 12.293 | 12.239 | 12.322 | VV | 976 | 24947 | 0.71% | 0.215% |
| 174 | 12.341 | 12.322 | 12.369 | VV | 305 | 6150 | 0.17% | 0.053% |
| 175 | 12.393 | 12.369 | 12.412 | VV | 212 | 4753 | 0.14% | 0.041% |
| 176 | 12.433 | 12.412 | 12.476 | VV | 387 | 10138 | 0.29% | 0.087% |
| 177 | 12.516 | 12.476 | 12.552 | VV | 770 | 19532 | 0.56% | 0.168% |
| 178 | 12.576 | 12.552 | 12.615 | VV | 381 | 11038 | 0.31% | 0.095% |
| 179 | 12.626 | 12.615 | 12.657 | VV | 237 | 4189 | 0.12% | 0.036% |
| 180 | 12.711 | 12.657 | 12.728 | VV | 388 | 9289 | 0.26% | 0.080% |
| 181 | 12.744 | 12.728 | 12.762 | VV | 408 | 6722 | 0.19% | 0.058% |
| 182 | 12.801 | 12.762 | 12.836 | VV | 2113 | 33041 | 0.94% | 0.285% |
| 183 | 12.876 | 12.836 | 12.911 | VV | 1006 | 15651 | 0.44% | 0.135% |
| 184 | 12.938 | 12.911 | 12.984 | VV | 2089 | 28391 | 0.81% | 0.244% |
| 185 | 12.997 | 12.984 | 13.020 | VV | 247 | 4229 | 0.12% | 0.036% |
| 186 | 13.055 | 13.020 | 13.104 | VV | 351 | 9795 | 0.28% | 0.084% |
| 187 | 13.113 | 13.104 | 13.129 | VV | 91 | 906 | 0.03% | 0.008% |
| 188 | 13.132 | 13.129 | 13.140 | VV | 75 | 306 | 0.01% | 0.003% |
| 189 | 13.217 | 13.140 | 13.252 | PV | 231 | 8356 | 0.24% | 0.072% |
| 190 | 13.265 | 13.252 | 13.281 | VV | 182 | 1944 | 0.06% | 0.017% |
| 191 | 13.330 | 13.281 | 13.349 | VV | 349 | 8981 | 0.26% | 0.077% |
| 192 | 13.385 | 13.349 | 13.421 | VV | 295966 | 3518508 | 100.00% | 30.300% |
| 193 | 13.441 | 13.421 | 13.469 | VV | 534 | 10159 | 0.29% | 0.087% |
| 194 | 13.488 | 13.469 | 13.502 | VV | 242 | 3999 | 0.11% | 0.034% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.552 | 13.502 | 13.579 | VV | 647 | 14624 | 0.42% | 0.126% |
| 196 | 13.605 | 13.579 | 13.652 | VV | 401 | 11136 | 0.32% | 0.096% |
| 197 | 13.671 | 13.652 | 13.702 | VV | 187 | 4275 | 0.12% | 0.037% |
| 198 | 13.722 | 13.702 | 13.734 | VV | 186 | 2633 | 0.07% | 0.023% |
| 199 | 13.771 | 13.734 | 13.797 | VV | 352 | 9734 | 0.28% | 0.084% |
| 200 | 13.827 | 13.797 | 13.879 | VV | 526 | 14813 | 0.42% | 0.128% |
| 201 | 13.894 | 13.879 | 13.915 | VV | 191 | 3035 | 0.09% | 0.026% |
| 202 | 13.986 | 13.915 | 13.997 | VV | 318 | 9620 | 0.27% | 0.083% |
| 203 | 14.001 | 13.997 | 14.027 | VV | 238 | 3048 | 0.09% | 0.026% |
| 204 | 14.055 | 14.027 | 14.065 | VV | 300 | 4532 | 0.13% | 0.039% |
| 205 | 14.086 | 14.065 | 14.111 | VV | 808 | 11545 | 0.33% | 0.099% |
| 206 | 14.138 | 14.111 | 14.172 | VV | 2005 | 26327 | 0.75% | 0.227% |
| 207 | 14.198 | 14.172 | 14.242 | VV | 200 | 4280 | 0.12% | 0.037% |
| 208 | 14.278 | 14.242 | 14.322 | VV | 180 | 3647 | 0.10% | 0.031% |
| 209 | 14.378 | 14.322 | 14.415 | PV | 553 | 14392 | 0.41% | 0.124% |
| 210 | 14.439 | 14.415 | 14.459 | VV | 234 | 4771 | 0.14% | 0.041% |
| 211 | 14.467 | 14.459 | 14.495 | VV | 196 | 2897 | 0.08% | 0.025% |
| 212 | 14.574 | 14.495 | 14.605 | VV | 977 | 22369 | 0.64% | 0.193% |
| 213 | 14.615 | 14.605 | 14.635 | VV | 167 | 2662 | 0.08% | 0.023% |
| 214 | 14.650 | 14.635 | 14.681 | VV | 223 | 4873 | 0.14% | 0.042% |
| 215 | 14.702 | 14.681 | 14.745 | VV | 711 | 10130 | 0.29% | 0.087% |
| 216 | 14.839 | 14.745 | 14.892 | PV | 404 | 20240 | 0.58% | 0.174% |
| 217 | 14.902 | 14.892 | 14.919 | VV | 217 | 2351 | 0.07% | 0.020% |
| 218 | 14.957 | 14.919 | 14.975 | VV | 349 | 6542 | 0.19% | 0.056% |
| 219 | 14.982 | 14.975 | 15.001 | VV | 246 | 2896 | 0.08% | 0.025% |
| 220 | 15.021 | 15.001 | 15.044 | VV | 293 | 5394 | 0.15% | 0.046% |
| 221 | 15.057 | 15.044 | 15.125 | VV | 194 | 7348 | 0.21% | 0.063% |
| 222 | 15.198 | 15.125 | 15.215 | VV | 656 | 12691 | 0.36% | 0.109% |
| 223 | 15.243 | 15.215 | 15.292 | VV | 2208 | 33667 | 0.96% | 0.290% |
| 224 | 15.308 | 15.292 | 15.351 | VV | 212 | 4506 | 0.13% | 0.039% |
| 225 | 15.380 | 15.351 | 15.395 | VV | 243 | 3865 | 0.11% | 0.033% |
| 226 | 15.446 | 15.395 | 15.466 | VV | 267 | 7873 | 0.22% | 0.068% |
| 227 | 15.484 | 15.466 | 15.496 | VV | 308 | 3479 | 0.10% | 0.030% |
| 228 | 15.515 | 15.496 | 15.535 | VV | 294 | 5377 | 0.15% | 0.046% |
| 229 | 15.574 | 15.535 | 15.593 | VV | 322 | 8108 | 0.23% | 0.070% |
| 230 | 15.673 | 15.593 | 15.700 | VV | 623 | 22728 | 0.65% | 0.196% |
| 231 | 15.716 | 15.700 | 15.732 | VV | 502 | 8097 | 0.23% | 0.070% |
| 232 | 15.765 | 15.732 | 15.794 | VV | 1450 | 32854 | 0.93% | 0.283% |
| 233 | 15.808 | 15.794 | 15.835 | VV | 807 | 17405 | 0.49% | 0.150% |
| 234 | 15.859 | 15.835 | 15.873 | VV | 556 | 11975 | 0.34% | 0.103% |
| 235 | 15.902 | 15.873 | 15.924 | VV | 743 | 18098 | 0.51% | 0.156% |
| 236 | 15.957 | 15.924 | 15.972 | VV | 752 | 19456 | 0.55% | 0.168% |
| 237 | 15.990 | 15.972 | 16.002 | VV | 862 | 13775 | 0.39% | 0.119% |
| 238 | 16.082 | 16.002 | 16.180 | VV | 1512 | 114471 | 3.25% | 0.986% |
| 239 | 16.227 | 16.180 | 16.240 | VV | 1673 | 43149 | 1.23% | 0.372% |
| 240 | 16.265 | 16.240 | 16.351 | VV | 3273 | 111147 | 3.16% | 0.957% |
| 241 | 16.365 | 16.351 | 16.391 | VV | 1244 | 27434 | 0.78% | 0.236% |
| 242 | 16.458 | 16.391 | 16.512 | VV | 2171 | 118366 | 3.36% | 1.019% |
| 243 | 16.576 | 16.512 | 16.609 | VV | 2293 | 109075 | 3.10% | 0.939% |
| 244 | 16.630 | 16.609 | 16.679 | VV | 2475 | 83425 | 2.37% | 0.718% |
| 245 | 16.700 | 16.679 | 16.709 | VV | 2100 | 33524 | 0.95% | 0.289% |
| 246 | 16.749 | 16.709 | 16.778 | VV | 3601 | 104357 | 2.97% | 0.899% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 16.790 | 16.778 | 16.810 | VV | 2062 | 38309 | 1.09% | 0.330% |
| 248 | 16.872 | 16.810 | 16.882 | VV | 2528 | 93831 | 2.67% | 0.808% |
| 249 | 16.906 | 16.882 | 16.936 | VV | 2713 | 82751 | 2.35% | 0.713% |
| 250 | 16.961 | 16.936 | 17.003 | VV | 2875 | 108947 | 3.10% | 0.938% |
| 251 | 17.019 | 17.003 | 17.038 | VV | 2661 | 52374 | 1.49% | 0.451% |
| 252 | 17.084 | 17.038 | 17.138 | VV | 3059 | 156254 | 4.44% | 1.346% |
| 253 | 17.215 | 17.138 | 17.265 | VV | 4627 | 237230 | 6.74% | 2.043% |
| 254 | 17.275 | 17.265 | 17.292 | VV | 2800 | 42948 | 1.22% | 0.370% |
| 255 | 17.316 | 17.292 | 17.324 | VV | 2708 | 49404 | 1.40% | 0.425% |
| 256 | 17.345 | 17.324 | 17.396 | VV | 2863 | 117700 | 3.35% | 1.014% |
| 257 | 17.450 | 17.396 | 17.488 | VV | 3600 | 166035 | 4.72% | 1.430% |
| 258 | 17.548 | 17.488 | 17.619 | VV | 2905 | 202922 | 5.77% | 1.747% |
| 259 | 17.666 | 17.619 | 17.723 | VV | 5293 | 190999 | 5.43% | 1.645% |
| 260 | 17.741 | 17.723 | 17.759 | VV | 2571 | 50535 | 1.44% | 0.435% |
| 261 | 17.786 | 17.759 | 17.828 | VV | 3065 | 107507 | 3.06% | 0.926% |
| 262 | 17.836 | 17.828 | 17.852 | VV | 2403 | 31604 | 0.90% | 0.272% |
| 263 | 17.872 | 17.852 | 17.895 | VV | 2230 | 54285 | 1.54% | 0.467% |
| 264 | 17.930 | 17.895 | 17.939 | VV | 2016 | 49653 | 1.41% | 0.428% |
| 265 | 17.961 | 17.939 | 17.989 | VV | 2101 | 57768 | 1.64% | 0.497% |
| 266 | 18.003 | 17.989 | 18.013 | VV | 2204 | 30046 | 0.85% | 0.259% |
| 267 | 18.023 | 18.013 | 18.047 | VV | 2246 | 43016 | 1.22% | 0.370% |
| 268 | 18.102 | 18.047 | 18.132 | VV | 4540 | 137599 | 3.91% | 1.185% |
| 269 | 18.148 | 18.132 | 18.169 | VV | 1704 | 35072 | 1.00% | 0.302% |
| 270 | 18.180 | 18.169 | 18.209 | VV | 1623 | 36174 | 1.03% | 0.312% |
| 271 | 18.253 | 18.209 | 18.335 | VV | 2706 | 138941 | 3.95% | 1.197% |
| 272 | 18.397 | 18.335 | 18.434 | VV | 1589 | 77064 | 2.19% | 0.664% |
| 273 | 18.483 | 18.434 | 18.500 | VV | 1465 | 53547 | 1.52% | 0.461% |
| 274 | 18.527 | 18.500 | 18.556 | VV | 4137 | 72121 | 2.05% | 0.621% |
| 275 | 18.619 | 18.556 | 18.642 | VV | 2256 | 63859 | 1.81% | 0.550% |
| 276 | 18.654 | 18.642 | 18.704 | VV | 997 | 28976 | 0.82% | 0.250% |
| 277 | 18.790 | 18.704 | 18.808 | VV | 1046 | 45269 | 1.29% | 0.390% |
| 278 | 18.818 | 18.808 | 18.852 | VV | 937 | 20624 | 0.59% | 0.178% |
| 279 | 18.870 | 18.852 | 18.882 | VV | 635 | 9775 | 0.28% | 0.084% |
| 280 | 18.936 | 18.882 | 19.002 | VV | 2685 | 73169 | 2.08% | 0.630% |
| 281 | 19.040 | 19.002 | 19.072 | VV | 951 | 24861 | 0.71% | 0.214% |
| 282 | 19.091 | 19.072 | 19.110 | VV | 836 | 14033 | 0.40% | 0.121% |
| 283 | 19.120 | 19.110 | 19.156 | VV | 542 | 12404 | 0.35% | 0.107% |
| 284 | 19.202 | 19.156 | 19.215 | VV | 441 | 11762 | 0.33% | 0.101% |
| 285 | 19.248 | 19.215 | 19.271 | VV | 518 | 12548 | 0.36% | 0.108% |
| 286 | 19.334 | 19.271 | 19.359 | VV | 2069 | 40762 | 1.16% | 0.351% |
| 287 | 19.372 | 19.359 | 19.408 | VV | 762 | 13087 | 0.37% | 0.113% |
| 288 | 19.442 | 19.408 | 19.468 | VV | 483 | 7526 | 0.21% | 0.065% |
| 289 | 19.510 | 19.468 | 19.572 | PV | 490 | 16357 | 0.46% | 0.141% |
| 290 | 19.581 | 19.572 | 19.593 | VV | 246 | 1947 | 0.06% | 0.017% |
| 291 | 19.665 | 19.593 | 19.681 | VV | 194 | 7561 | 0.21% | 0.065% |
| 292 | 19.719 | 19.681 | 19.743 | VV | 2009 | 36726 | 1.04% | 0.316% |
| 293 | 19.751 | 19.743 | 19.791 | VV | 1024 | 16418 | 0.47% | 0.141% |
| 294 | 19.841 | 19.791 | 19.882 | VV | 393 | 12910 | 0.37% | 0.111% |
| 295 | 19.944 | 19.882 | 19.975 | VV | 464 | 18470 | 0.52% | 0.159% |
| 296 | 20.031 | 19.975 | 20.054 | VV | 728 | 27553 | 0.78% | 0.237% |
| 297 | 20.095 | 20.054 | 20.122 | VV | 1547 | 39529 | 1.12% | 0.340% |
| 298 | 20.151 | 20.122 | 20.176 | VV | 1073 | 32028 | 0.91% | 0.276% |
| 299 | 20.257 | 20.176 | 20.281 | VV | 1235 | 61349 | 1.74% | 0.528% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 20.366 | 20.281 | 20.399 | VV | 1664 | 95652 | 2.72% | 0.824% |
| 301 | 20.461 | 20.399 | 20.487 | VV | 2683 | 99003 | 2.81% | 0.853% |
| 302 | 20.541 | 20.487 | 20.556 | VV | 2149 | 83800 | 2.38% | 0.722% |
| 303 | 20.572 | 20.556 | 20.595 | VV | 2084 | 47748 | 1.36% | 0.411% |
| 304 | 20.642 | 20.595 | 20.653 | VV | 2467 | 77196 | 2.19% | 0.665% |
| 305 | 20.725 | 20.653 | 20.761 | VV | 2650 | 162386 | 4.62% | 1.398% |
| 306 | 20.819 | 20.761 | 20.899 | VV | 3047 | 208386 | 5.92% | 1.795% |
| 307 | 20.952 | 20.899 | 20.966 | VV | 2393 | 92669 | 2.63% | 0.798% |
| 308 | 21.002 | 20.966 | 21.051 | VV | 2588 | 126530 | 3.60% | 1.090% |
| 309 | 21.067 | 21.051 | 21.129 | VV | 2544 | 109666 | 3.12% | 0.944% |
| 310 | 21.206 | 21.129 | 21.255 | VV | 2813 | 178526 | 5.07% | 1.537% |
| 311 | 21.293 | 21.255 | 21.318 | VV | 2256 | 80222 | 2.28% | 0.691% |
| 312 | 21.337 | 21.318 | 21.430 | VV | 2118 | 125517 | 3.57% | 1.081% |
| 313 | 21.439 | 21.430 | 21.475 | VV | 1709 | 43744 | 1.24% | 0.377% |
| 314 | 21.490 | 21.475 | 21.520 | VV | 1518 | 39494 | 1.12% | 0.340% |
| 315 | 21.550 | 21.520 | 21.573 | VV | 1520 | 47278 | 1.34% | 0.407% |
| 316 | 21.645 | 21.573 | 21.673 | VV | 1637 | 86080 | 2.45% | 0.741% |
| 317 | 21.682 | 21.673 | 21.693 | VV | 1316 | 14859 | 0.42% | 0.128% |
| 318 | 21.708 | 21.693 | 21.719 | VV | 1312 | 20437 | 0.58% | 0.176% |
| 319 | 21.729 | 21.719 | 21.805 | VV | 1290 | 52736 | 1.50% | 0.454% |
| 320 | 21.825 | 21.805 | 21.891 | VV | 781 | 33478 | 0.95% | 0.288% |
| 321 | 21.903 | 21.891 | 21.920 | VV | 599 | 9954 | 0.28% | 0.086% |
| 322 | 21.928 | 21.920 | 21.949 | VV | 575 | 9057 | 0.26% | 0.078% |
| 323 | 21.972 | 21.949 | 21.985 | VV | 469 | 10082 | 0.29% | 0.087% |
| 324 | 21.992 | 21.985 | 22.006 | VV | 455 | 5285 | 0.15% | 0.046% |
| 325 | 22.044 | 22.006 | 22.065 | VV | 631 | 18516 | 0.53% | 0.159% |
| 326 | 22.074 | 22.065 | 22.095 | VV | 592 | 9663 | 0.27% | 0.083% |
| 327 | 22.142 | 22.095 | 22.199 | VV | 737 | 28445 | 0.81% | 0.245% |
| 328 | 22.202 | 22.199 | 22.252 | VBA | 266 | 15034 | 0.43% | 0.129% |

Sum of corrected areas: 11612312

Aliphatic EPH 111424.M Wed Nov 20 01:27:52 2024

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

# Report of Analysis

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|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 12:16 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FG014866.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.25 | U | 1 | 0.25 | 0.68 | mg/kg | FG014866.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.31 | U | 1 | 0.31 | 1.02 | mg/kg | FG014866.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.82 | U | 1 | 0.82 | 1.37 | mg/kg | FG014866.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.84 | U | 1 | 1.84 | 2.05 | mg/kg | FG014866.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FF015097.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 1 | 0.35 | 1.02 | mg/kg | FF015097.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.03 | J | 1 | 0.98 | 1.71 | mg/kg | FF015097.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.05 | U | 1 | 2.05 | 2.73 | mg/kg | FF015097.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.60 | U | | 3.60 | 6.14 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.69 | U | | 3.69 | 6.14 | mg/kg | |
| Total EPH | Total EPH | 7.29 | U | | 7.29 | 12.3 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FF015097.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.03 | J | 0.98 | 1.71 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.05 | U | 2.05 | 2.73 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 51.8 | | 40 - 140 | 104% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 50.2 | | 40 - 140 | 100% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 28.7 | | 40 - 140 | 57% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-09 | Acq On: | 19 Nov 2024 12:16 |
| Client Sample ID: | PH2-BOT-006 | Operator: | YP\AJ |
| Data file: | FF015097.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 74 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 236885 | 1.732 | 200 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 90814 | 0.673 | 300 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 1919248 | 15.007 | 500 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 897426 | 7.364 | 800 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 3144373 | 24.775 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.988 | 7.988 | 6327225 | 51.81 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.861 | 8.861 | 4096157 | 50.17 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.922 | 11.922 | 3853118 | 28.72 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015097.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:16
Operator : YP\AJ
Sample : P4860-09
Misc :
ALS Vial : 74 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-006

Integration File: autoint1.e
Quant Time: Nov 20 01:47:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 4) S 2-Bromonaphthalene (S... | 7.988 | 6327225 | 51.813 ug/ml |
| Spiked Amount 50.000 | | Recovery = 103.63% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.861 | 4096157 | 50.173 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 100.35% | |
| 11) S ortho-Terphenyl (SURR) | 11.922 | 3853118 | 28.724 ug/ml |
| Spiked Amount 50.000 | | Recovery = 57.45% | |
| Target Compounds | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

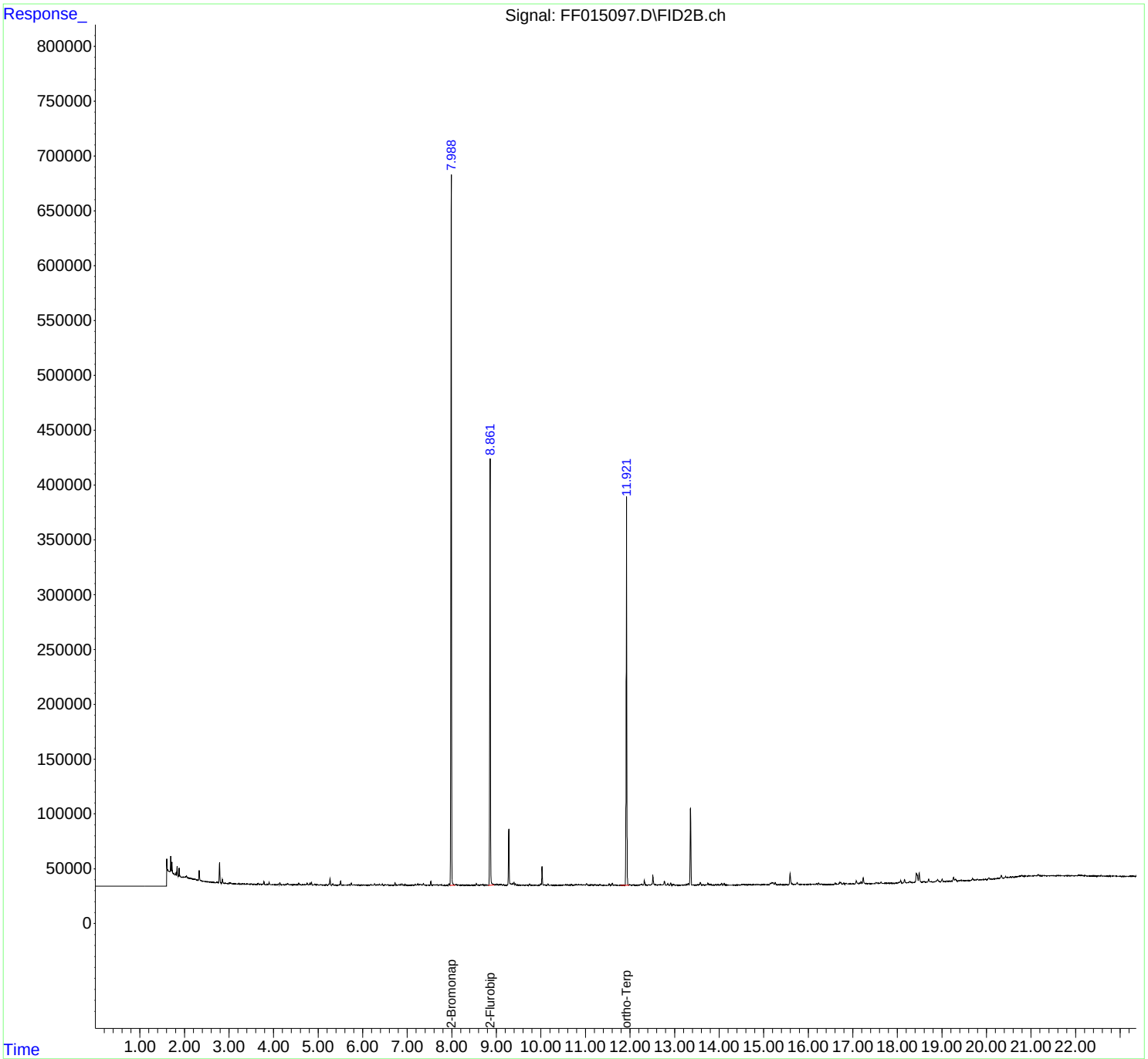
Quantitation Report (QT Reviewed)

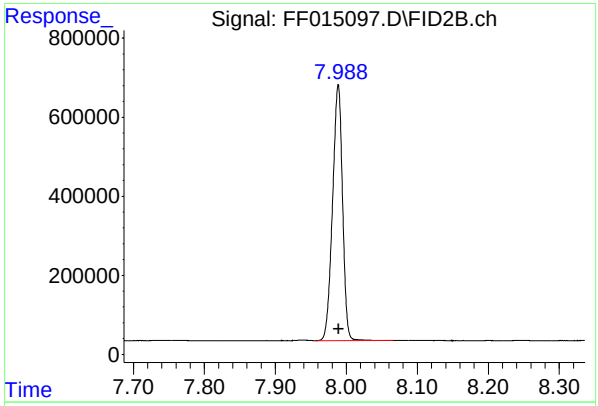
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015097.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:16
Operator : YP\AJ
Sample : P4860-09
Misc :
ALS Vial : 74 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-006

Integration File: autoint1.e
Quant Time: Nov 20 01:47:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

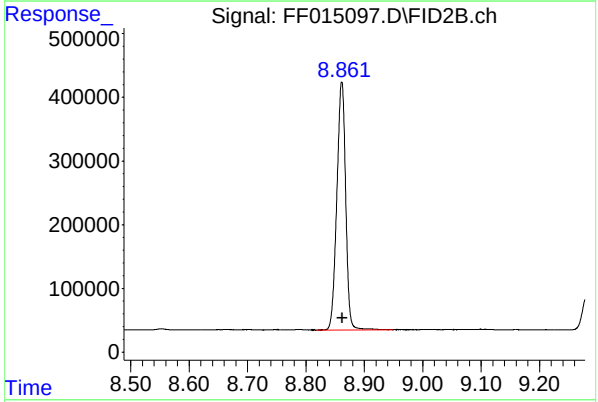





#4 2-Bromonaphthalene (SURR)

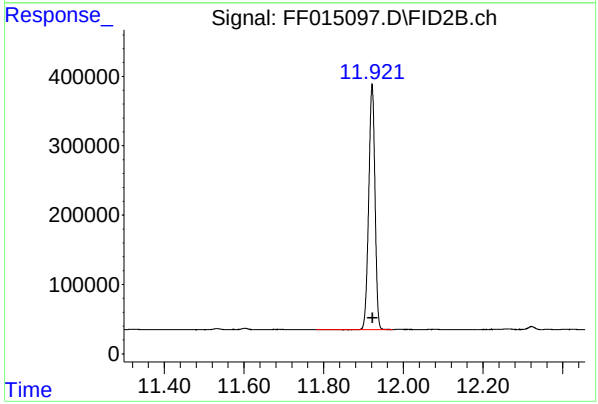
R.T.: 7.988 min
Delta R.T.: 0.000 min
Response: 6327225
Conc: 51.81 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-006




#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: -0.001 min
Response: 4096157
Conc: 50.17 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.922 min
Delta R.T.: -0.002 min
Response: 3853118
Conc: 28.72 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015097.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:16
Sample : P4860-09
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.566 | 4.536 | 4.587 | BV | 1720 | 18066 | 0.29% | 0.104% |
| 2 | 4.755 | 4.716 | 4.779 | PV | 1732 | 26028 | 0.41% | 0.149% |
| 3 | 4.818 | 4.779 | 4.834 | VV | 1721 | 18913 | 0.30% | 0.109% |
| 4 | 4.851 | 4.834 | 4.879 | VB | 2558 | 26037 | 0.41% | 0.149% |
| 5 | 5.267 | 5.211 | 5.297 | BV | 5897 | 80871 | 1.28% | 0.464% |
| 6 | 5.505 | 5.429 | 5.542 | BB | 3950 | 44157 | 0.70% | 0.253% |
| 7 | 5.745 | 5.719 | 5.766 | VV | 2015 | 22813 | 0.36% | 0.131% |
| 8 | 6.728 | 6.672 | 6.751 | BV | 2346 | 23934 | 0.38% | 0.137% |
| 9 | 7.366 | 7.332 | 7.414 | VB | 1705 | 24223 | 0.38% | 0.139% |
| 10 | 7.530 | 7.496 | 7.564 | BV | 3726 | 42657 | 0.67% | 0.245% |
| 11 | 7.988 | 7.957 | 8.066 | PV | 651270 | 6327225 | 100.00% | 36.320% |
| 12 | 8.861 | 8.817 | 8.949 | BB | 390381 | 4096157 | 64.74% | 23.513% |
| 13 | 9.281 | 9.239 | 9.342 | BV | 51339 | 553300 | 8.74% | 3.176% |
| 14 | 9.358 | 9.342 | 9.374 | VV | 1560 | 16356 | 0.26% | 0.094% |
| 15 | 9.396 | 9.374 | 9.416 | VV | 2305 | 27051 | 0.43% | 0.155% |
| 16 | 10.027 | 10.005 | 10.057 | VV | 17081 | 182840 | 2.89% | 1.050% |
| 17 | 11.603 | 11.556 | 11.636 | VB | 2028 | 28312 | 0.45% | 0.163% |
| 18 | 11.922 | 11.781 | 11.974 | BV | 352315 | 3853118 | 60.90% | 22.118% |
| 19 | 12.322 | 12.286 | 12.347 | VV | 4419 | 52292 | 0.83% | 0.300% |
| 20 | 12.512 | 12.457 | 12.609 | BB | 9636 | 142260 | 2.25% | 0.817% |
| 21 | 12.771 | 12.639 | 12.821 | BB | 3553 | 57448 | 0.91% | 0.330% |
| 22 | 12.911 | 12.876 | 12.934 | PV | 2108 | 25769 | 0.41% | 0.148% |
| 23 | 13.356 | 13.326 | 13.389 | VV | 69932 | 833620 | 13.18% | 4.785% |
| 24 | 13.576 | 13.496 | 13.614 | BV | 2479 | 41482 | 0.66% | 0.238% |
| 25 | 13.749 | 13.614 | 13.774 | PB | 1467 | 19303 | 0.31% | 0.111% |
| 26 | 14.109 | 14.084 | 14.151 | PB | 1755 | 24283 | 0.38% | 0.139% |
| 27 | 15.185 | 15.161 | 15.198 | VV | 2154 | 36683 | 0.58% | 0.211% |
| 28 | 15.257 | 15.237 | 15.292 | VB | 2031 | 27800 | 0.44% | 0.160% |
| 29 | 15.590 | 15.534 | 15.677 | BB | 10130 | 165609 | 2.62% | 0.951% |
| 30 | 15.750 | 15.682 | 15.802 | BB | 1795 | 27457 | 0.43% | 0.158% |
| 31 | 16.728 | 16.654 | 16.769 | BV | 1712 | 45902 | 0.73% | 0.263% |
| 32 | 17.077 | 16.952 | 17.127 | BV | 2641 | 39128 | 0.62% | 0.225% |
| 33 | 17.184 | 17.164 | 17.207 | VV | 1847 | 27322 | 0.43% | 0.157% |
| 34 | 17.232 | 17.207 | 17.284 | VB | 5317 | 76653 | 1.21% | 0.440% |
| 35 | 18.071 | 17.904 | 18.097 | BB | 2250 | 49627 | 0.78% | 0.285% |
| 36 | 18.160 | 18.124 | 18.202 | BB | 3225 | 46873 | 0.74% | 0.269% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 18.427 | 18.411 | 18.466 | BV | 6118 | 122342 | 1.93% | 0.702% |
| 38 | 18.488 | 18.466 | 18.539 | VB | 7562 | 105343 | 1.66% | 0.605% |
| 39 | 18.700 | 18.661 | 18.757 | BB | 2857 | 41619 | 0.66% | 0.239% |

Sum of corrected areas: 17420873

Aromatic EPH 111524.M Wed Nov 20 02:27:22 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FG014866.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.25 | U | 0.25 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.31 | U | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.82 | U | 0.82 | 1.37 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 1.84 | U | 1.84 | 2.05 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 34.7 | | 40 - 140 | 69% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-09 | Acq On: | 19 Nov 2024 12:16 |
| Client Sample ID: | PH2-BOT-006 | Operator: | YP\AJ |
| Data file: | FG014866.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 24 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 99099 | 0.717 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 157371 | 1.123 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 107252 | 0.798 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 363722 | 2.638 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.385 | 13.385 | 3851647 | 34.66 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 363722 | 2.638 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014866.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:16
Operator : YP\AJ
Sample : P4860-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-006

Integration File: autoint1.e
Quant Time: Nov 20 00:35:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.385 | 3851647 | 34.659 ug/ml |
| Spiked Amount 50.000 | | Recovery = 69.32% | |
| Target Compounds | | | |

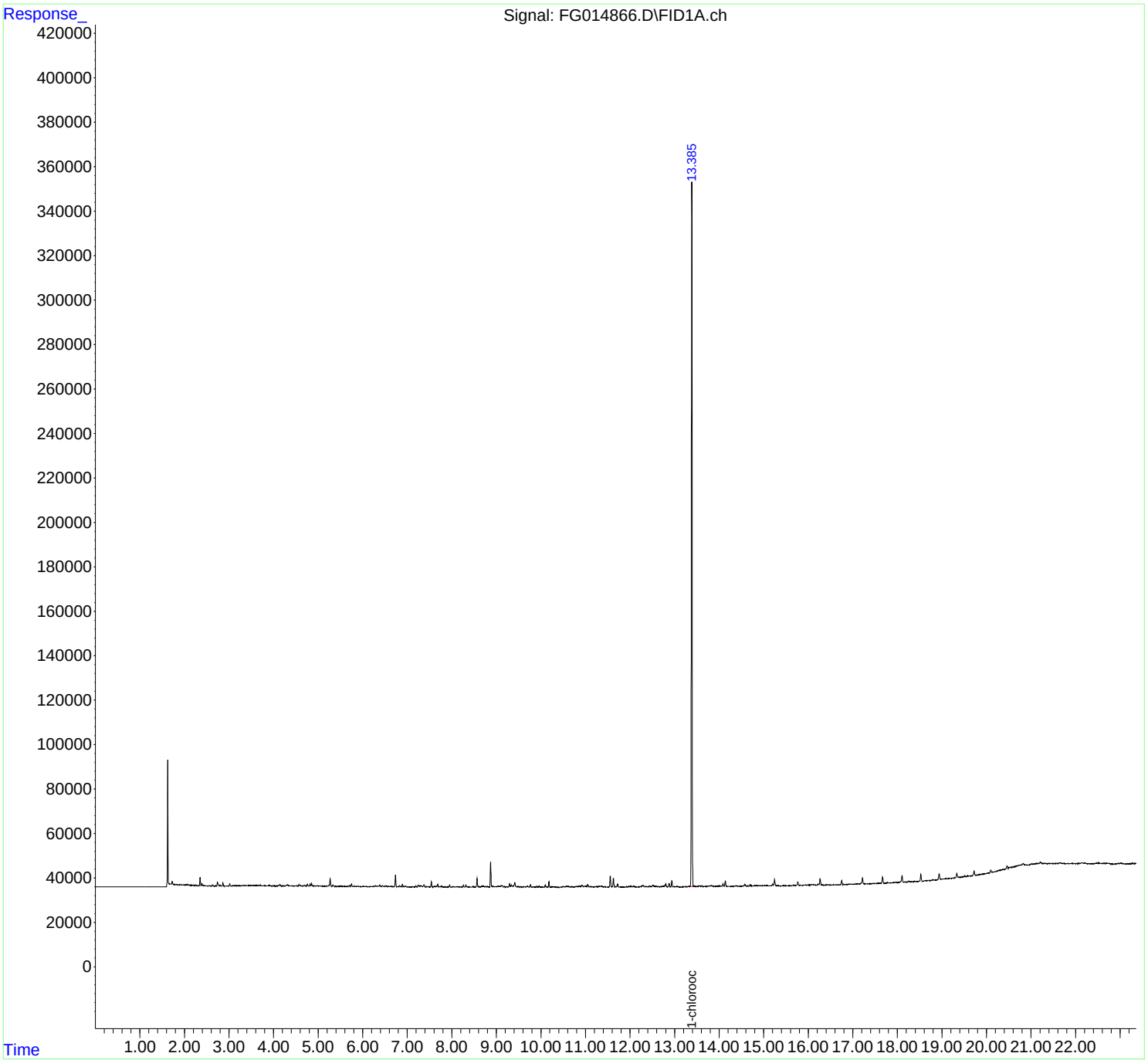
(f)=RT Delta > 1/2 Window (m)=manual int.

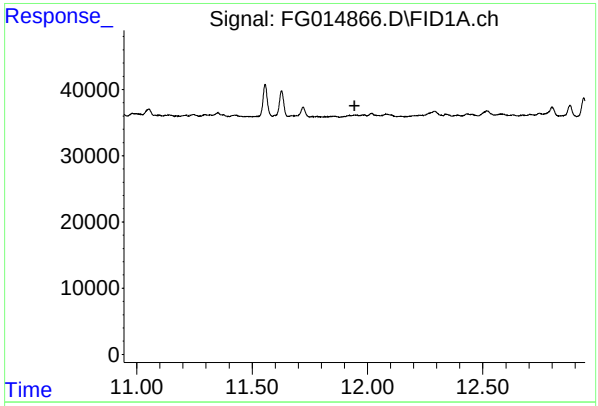
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014866.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:16
Operator : YP\AJ
Sample : P4860-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-006

Integration File: autoint1.e
Quant Time: Nov 20 00:35:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

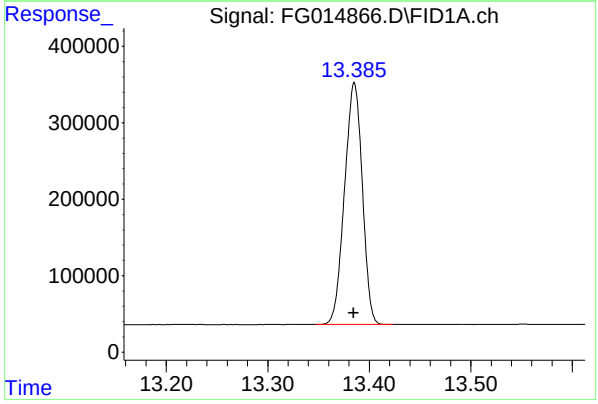





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-006




#12 1-chlorooctadecane (SURR)

R.T.: 13.385 min
Delta R.T.: 0.000 min
Response: 3851647
Conc: 34.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014866.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:16
Sample : P4860-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 5.271 | 5.223 | 5.304 | BB | 3502 | 45226 | 1.17% | 1.073% |
| 2 | 6.737 | 6.714 | 6.759 | BB | 5376 | 53873 | 1.40% | 1.278% |
| 3 | 8.569 | 8.545 | 8.593 | BB | 3795 | 39616 | 1.03% | 0.940% |
| 4 | 8.872 | 8.848 | 8.899 | BB | 11275 | 117755 | 3.06% | 2.793% |
| 5 | 11.556 | 11.529 | 11.588 | BB | 4826 | 60632 | 1.57% | 1.438% |
| 6 | 11.627 | 11.603 | 11.657 | BB | 3759 | 46620 | 1.21% | 1.106% |
| 7 | 13.385 | 13.348 | 13.423 | BB | 316862 | 3851647 | 100.00% | 91.372% |
| | | | Sum of corrected areas: | | | 4215370 | | |

Aliphatic EPH 111424.M Wed Nov 20 01:23:34 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.6 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 12:44 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FG014867.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.47 | J | 1 | 0.25 | 0.68 | mg/kg | FG014867.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.38 | J | 1 | 0.31 | 1.02 | mg/kg | FG014867.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 1.11 | J | 1 | 0.82 | 1.36 | mg/kg | FG014867.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.36 | | 1 | 1.84 | 2.05 | mg/kg | FG014867.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FF015098.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 1 | 0.35 | 1.02 | mg/kg | FF015098.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.07 | J | 1 | 0.98 | 1.70 | mg/kg | FF015098.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.05 | U | 1 | 2.05 | 2.73 | mg/kg | FF015098.D |
| Total AliphaticEPH | Total AliphaticEPH | 4.32 | J | | 3.60 | 6.13 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.69 | U | | 3.69 | 6.13 | mg/kg | |
| Total EPH | Total EPH | 7.29 | U | | 7.29 | 12.3 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | 11/14/24 | |
| Project: | Ocean County Landfill 2024 | | Date Received: | 11/14/24 | |
| Client Sample ID: | PH2-BOT-005 | | SDG No.: | P4860 | |
| Lab Sample ID: | P4860-10 | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 97.6 | |
| Sample Wt/Vol: | 30.06 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FF015098.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.07 | J | 0.98 | 1.70 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.05 | U | 2.05 | 2.73 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 52.4 | | 40 - 140 | 105% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 47.8 | | 40 - 140 | 96% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 28.7 | | 40 - 140 | 57% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-10 | Acq On: | 19 Nov 2024 12:44 |
| Client Sample ID: | PH2-BOT-005 | Operator: | YP\AJ |
| Data file: | FF015098.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 75 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 232684 | 1.701 | 200 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 159034 | 1.178 | 300 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 2008438 | 15.704 | 500 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 1475859 | 12.11 | 800 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 3876015 | 30.693 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.988 | 7.988 | 6398539 | 52.4 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.861 | 8.861 | 3905320 | 47.84 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.922 | 11.922 | 3854256 | 28.73 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015098.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:44
Operator : YP\AJ
Sample : P4860-10
Misc :
ALS Vial : 75 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-005

Integration File: autoint1.e
Quant Time: Nov 20 01:47:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.988 | 6398539 | 52.397 ug/ml |
| Spiked Amount 50.000 | | Recovery = 104.79% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.861 | 3905320 | 47.835 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 95.67% | |
| 11) S ortho-Terphenyl (SURR) | 11.922 | 3854256 | 28.732 ug/ml |
| Spiked Amount 50.000 | | Recovery = 57.46% | |
| **Target Compounds** | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

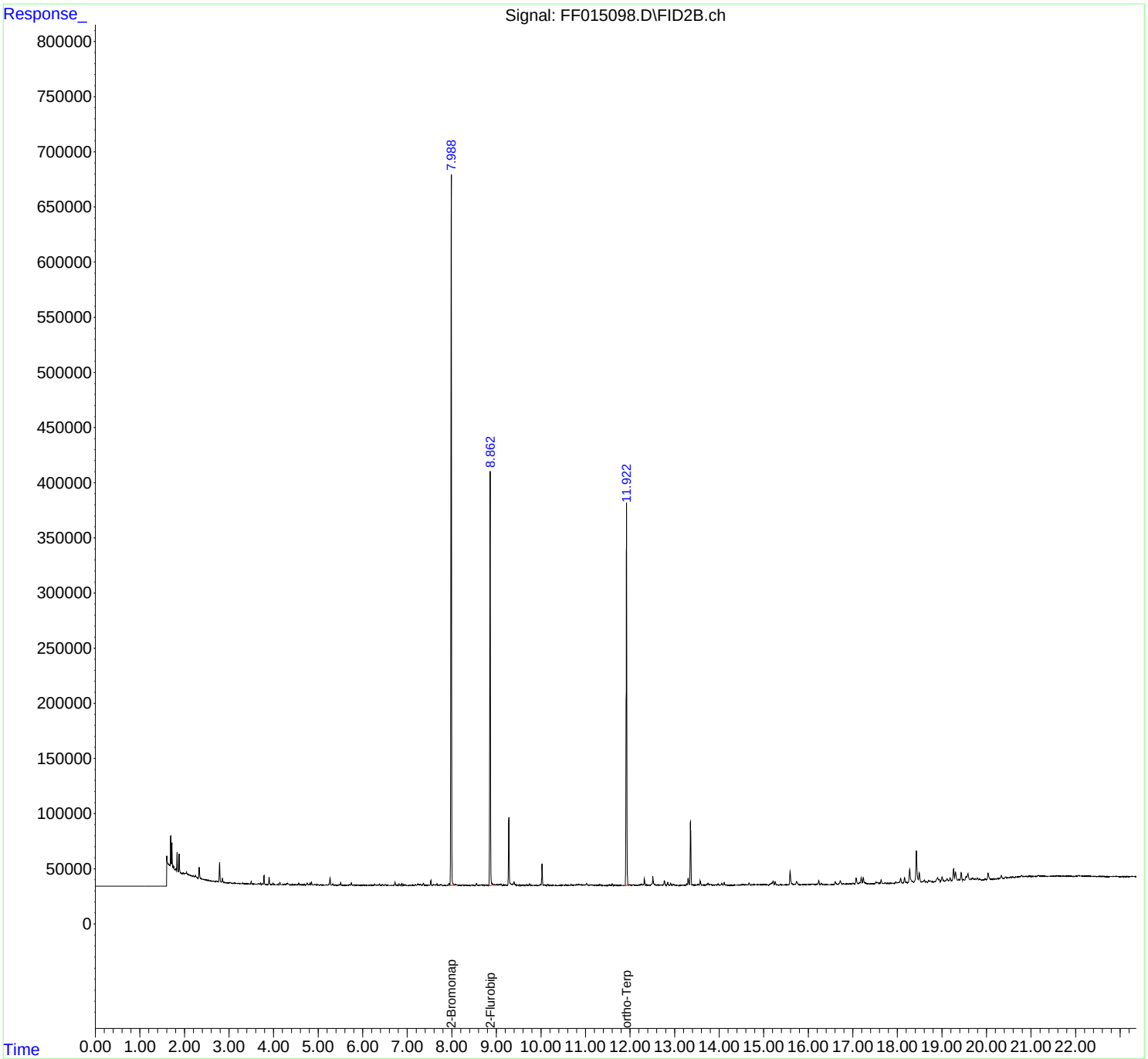
Quantitation Report (QT Reviewed)

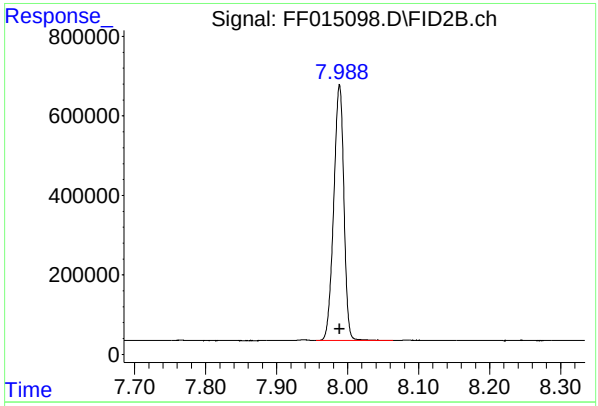
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015098.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:44
Operator : YP\AJ
Sample : P4860-10
Misc :
ALS Vial : 75 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-005

Integration File: autoint1.e
Quant Time: Nov 20 01:47:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

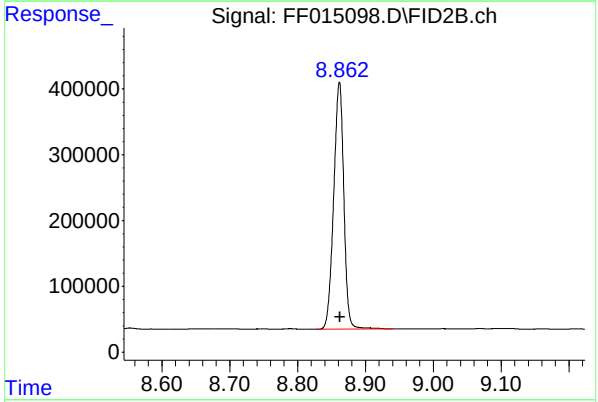





#4 2-Bromonaphthalene (SURR)

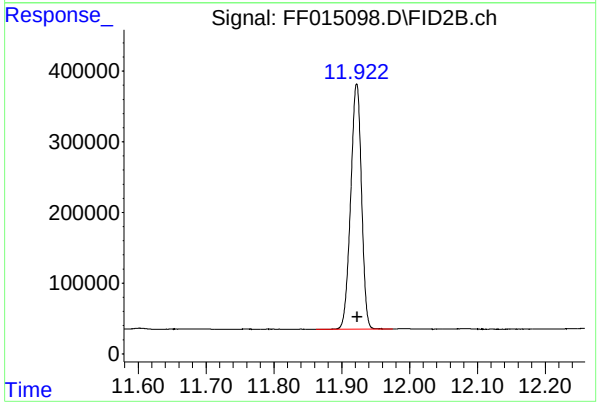
R.T.: 7.988 min
Delta R.T.: 0.000 min
Response: 6398539
Conc: 52.40 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-005




#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 3905320
Conc: 47.84 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.922 min
Delta R.T.: -0.001 min
Response: 3854256
Conc: 28.73 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015098.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:44
Sample : P4860-10
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.567 | 4.535 | 4.622 | BB | 1724 | 21143 | 0.33% | 0.117% |
| 2 | 4.756 | 4.720 | 4.779 | BV | 1956 | 24467 | 0.38% | 0.136% |
| 3 | 4.818 | 4.779 | 4.834 | VV | 1806 | 20042 | 0.31% | 0.111% |
| 4 | 4.851 | 4.834 | 4.872 | VB | 2812 | 28047 | 0.44% | 0.156% |
| 5 | 5.268 | 5.210 | 5.294 | BV | 6601 | 90301 | 1.41% | 0.501% |
| 6 | 5.506 | 5.489 | 5.550 | VB | 2312 | 24087 | 0.38% | 0.134% |
| 7 | 5.746 | 5.720 | 5.770 | VV | 2378 | 24597 | 0.38% | 0.136% |
| 8 | 6.728 | 6.654 | 6.754 | BV | 2566 | 27686 | 0.43% | 0.154% |
| 9 | 6.882 | 6.864 | 6.902 | VV | 1793 | 17508 | 0.27% | 0.097% |
| 10 | 7.365 | 7.334 | 7.415 | PB | 2067 | 28301 | 0.44% | 0.157% |
| 11 | 7.530 | 7.499 | 7.560 | BV | 4400 | 49773 | 0.78% | 0.276% |
| 12 | 7.938 | 7.900 | 7.955 | BV | 1729 | 16702 | 0.26% | 0.093% |
| 13 | 7.988 | 7.955 | 8.064 | PV | 645425 | 6398539 | 100.00% | 35.480% |
| 14 | 8.553 | 8.497 | 8.600 | BB | 1695 | 19064 | 0.30% | 0.106% |
| 15 | 8.861 | 8.827 | 8.940 | BB | 377660 | 3905320 | 61.03% | 21.655% |
| 16 | 9.281 | 9.239 | 9.345 | BV | 61426 | 661738 | 10.34% | 3.669% |
| 17 | 9.397 | 9.374 | 9.419 | VV | 2859 | 35497 | 0.55% | 0.197% |
| 18 | 10.026 | 10.005 | 10.064 | VV | 19624 | 207117 | 3.24% | 1.148% |
| 19 | 11.922 | 11.862 | 11.975 | BV | 347582 | 3854256 | 60.24% | 21.372% |
| 20 | 12.322 | 12.292 | 12.345 | VV | 6053 | 70647 | 1.10% | 0.392% |
| 21 | 12.513 | 12.452 | 12.614 | BB | 8351 | 134001 | 2.09% | 0.743% |
| 22 | 12.771 | 12.640 | 12.810 | BV | 4140 | 68558 | 1.07% | 0.380% |
| 23 | 12.845 | 12.810 | 12.875 | PV | 3094 | 39286 | 0.61% | 0.218% |
| 24 | 12.911 | 12.875 | 12.935 | PV | 1981 | 23519 | 0.37% | 0.130% |
| 25 | 13.304 | 13.280 | 13.327 | VV | 6249 | 76457 | 1.19% | 0.424% |
| 26 | 13.356 | 13.327 | 13.388 | VV | 57427 | 691618 | 10.81% | 3.835% |
| 27 | 13.576 | 13.551 | 13.617 | VV | 3734 | 50449 | 0.79% | 0.280% |
| 28 | 13.749 | 13.617 | 13.772 | PB | 1280 | 17631 | 0.28% | 0.098% |
| 29 | 14.057 | 14.000 | 14.080 | PV | 1712 | 26186 | 0.41% | 0.145% |
| 30 | 14.110 | 14.080 | 14.154 | PB | 2391 | 32833 | 0.51% | 0.182% |
| 31 | 14.671 | 14.617 | 14.714 | BB | 1843 | 22794 | 0.36% | 0.126% |
| 32 | 15.211 | 15.090 | 15.235 | BV | 3682 | 97852 | 1.53% | 0.543% |
| 33 | 15.257 | 15.235 | 15.290 | VB | 2904 | 38566 | 0.60% | 0.214% |
| 34 | 15.590 | 15.530 | 15.670 | BB | 11910 | 189704 | 2.96% | 1.052% |
| 35 | 15.735 | 15.692 | 15.810 | BB | 2728 | 63458 | 0.99% | 0.352% |
| 36 | 16.233 | 16.209 | 16.265 | VV | 3468 | 46551 | 0.73% | 0.258% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 16.605 | 16.542 | 16.662 | BB | 2429 | 39535 | 0.62% | 0.219% |
| 38 | 16.718 | 16.669 | 16.772 | BV | 3160 | 62012 | 0.97% | 0.344% |
| 39 | 17.074 | 17.037 | 17.125 | PV | 5399 | 90785 | 1.42% | 0.503% |
| 40 | 17.186 | 17.160 | 17.210 | VV | 5262 | 82943 | 1.30% | 0.460% |
| 41 | 17.233 | 17.210 | 17.297 | VB | 5540 | 89003 | 1.39% | 0.494% |
| 42 | 17.520 | 17.395 | 17.538 | BV | 1073 | -3251 | -0.05% | -0.018% |
| 43 | 17.634 | 17.592 | 17.689 | BB | 3376 | 46462 | 0.73% | 0.258% |
| 44 | 18.072 | 17.986 | 18.107 | VV | 4312 | 84476 | 1.32% | 0.468% |
| 45 | 18.160 | 18.107 | 18.220 | PB | 4863 | 73162 | 1.14% | 0.406% |
| 46 | 18.274 | 18.220 | 18.280 | BBA | 3320 | -28489 | -0.45% | -0.158% |
| 47 | 18.425 | 18.410 | 18.467 | BV | 21004 | 250491 | 3.91% | 1.389% |
| 48 | 18.490 | 18.467 | 18.537 | PV | 6934 | 91994 | 1.44% | 0.510% |
| 49 | 18.702 | 18.660 | 18.722 | BV | 1318 | 10712 | 0.17% | 0.059% |

Sum of corrected areas: 18034130

Aromatic EPH 111524.M Wed Nov 20 02:27:42 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.6 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FG014867.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.47 | J | 0.25 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.38 | J | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 1.11 | J | 0.82 | 1.36 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 2.36 | | 1.84 | 2.05 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 33.8 | | 40 - 140 | 68% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-10 | Acq On: | 19 Nov 2024 12:44 |
| Client Sample ID: | PH2-BOT-005 | Operator: | YP\AJ |
| Data file: | FG014867.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 25 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 473733 | 3.428 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 973736 | 6.947 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 748435 | 5.568 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 2004593 | 16.228 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 3594649 | 34.667 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 7795146 | 66.838 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.386 | 13.386 | 3755030 | 33.79 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 4200497 | 32.171 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014867.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:44
Operator : YP\AJ
Sample : P4860-10
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-005

Integration File: autoint1.e
Quant Time: Nov 20 00:36:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.386 | 3755030 | 33.790 ug/ml |
| Spiked Amount 50.000 | | Recovery = 67.58% | |
| Target Compounds | | | |

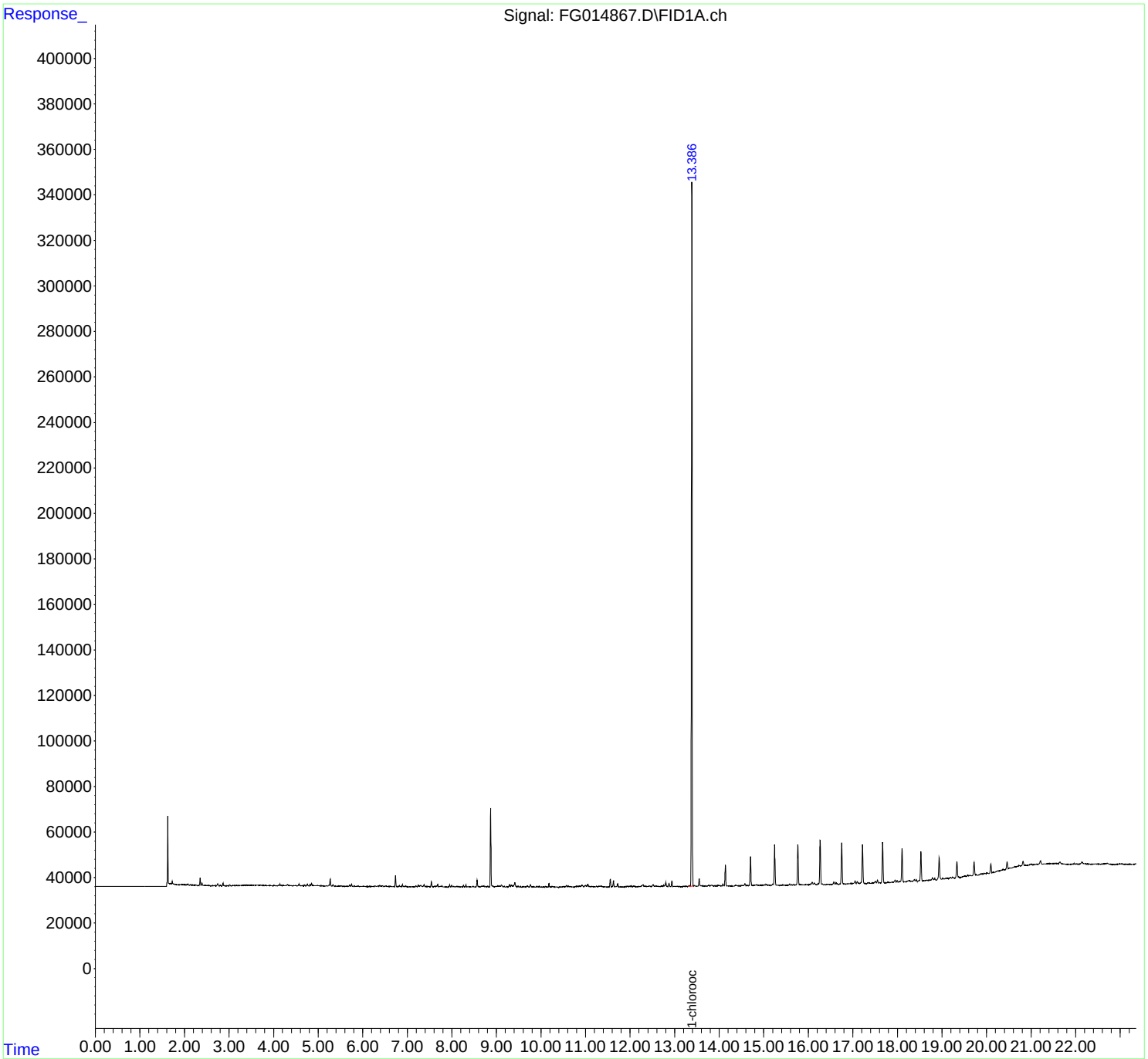
(f)=RT Delta > 1/2 Window (m)=manual int.

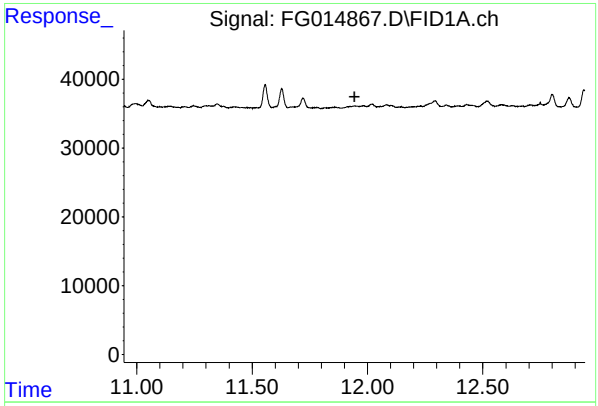
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014867.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:44
Operator : YP\AJ
Sample : P4860-10
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-005

Integration File: autoint1.e
Quant Time: Nov 20 00:36:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

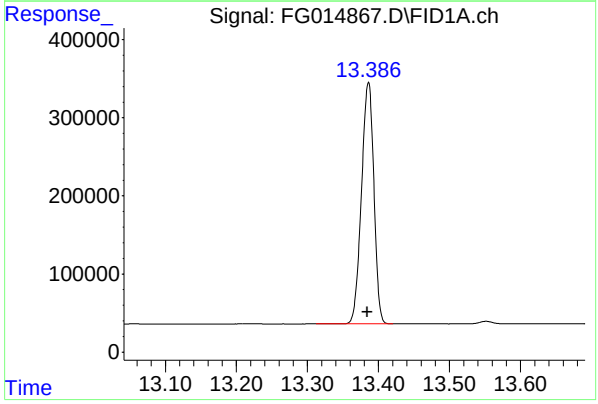





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-005




#12 1-chlorooctadecane (SURR)

R.T.: 13.386 min
Delta R.T.: 0.002 min
Response: 3755030
Conc: 33.79 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014867.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:44
Sample : P4860-10
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.265 | 3.258 | 3.294 | VV | 78 | 1120 | 0.03% | 0.010% |
| 2 | 3.322 | 3.294 | 3.348 | PV | 300 | 4620 | 0.12% | 0.040% |
| 3 | 3.371 | 3.348 | 3.398 | VV | 118 | 3129 | 0.08% | 0.027% |
| 4 | 3.408 | 3.398 | 3.418 | VV | 118 | 1184 | 0.03% | 0.010% |
| 5 | 3.428 | 3.418 | 3.440 | VV | 146 | 1629 | 0.04% | 0.014% |
| 6 | 3.457 | 3.440 | 3.468 | VV | 167 | 2564 | 0.07% | 0.022% |
| 7 | 3.475 | 3.468 | 3.528 | VV | 175 | 5597 | 0.15% | 0.048% |
| 8 | 3.535 | 3.528 | 3.551 | VV | 184 | 2483 | 0.07% | 0.021% |
| 9 | 3.567 | 3.551 | 3.605 | VV | 226 | 6129 | 0.16% | 0.053% |
| 10 | 3.617 | 3.605 | 3.693 | VV | 237 | 10725 | 0.29% | 0.093% |
| 11 | 3.709 | 3.693 | 3.748 | VV | 339 | 6525 | 0.17% | 0.056% |
| 12 | 3.767 | 3.748 | 3.791 | VV | 210 | 3707 | 0.10% | 0.032% |
| 13 | 3.805 | 3.791 | 3.890 | VV | 142 | 5444 | 0.14% | 0.047% |
| 14 | 3.902 | 3.890 | 3.915 | VV | 147 | 1541 | 0.04% | 0.013% |
| 15 | 3.918 | 3.915 | 3.951 | VV | 121 | 1813 | 0.05% | 0.016% |
| 16 | 3.958 | 3.951 | 3.984 | VV | 108 | 1557 | 0.04% | 0.013% |
| 17 | 4.000 | 3.984 | 4.052 | VV | 153 | 4114 | 0.11% | 0.036% |
| 18 | 4.112 | 4.052 | 4.126 | VV | 401 | 6792 | 0.18% | 0.059% |
| 19 | 4.145 | 4.126 | 4.168 | VV | 792 | 8689 | 0.23% | 0.075% |
| 20 | 4.181 | 4.168 | 4.191 | VV | 178 | 2224 | 0.06% | 0.019% |
| 21 | 4.218 | 4.191 | 4.239 | VV | 360 | 6218 | 0.17% | 0.054% |
| 22 | 4.316 | 4.239 | 4.380 | VV | 681 | 21822 | 0.58% | 0.189% |
| 23 | 4.392 | 4.380 | 4.418 | VV | 225 | 3736 | 0.10% | 0.032% |
| 24 | 4.517 | 4.418 | 4.541 | VV | 216 | 11514 | 0.31% | 0.100% |
| 25 | 4.569 | 4.541 | 4.621 | VV | 864 | 16065 | 0.43% | 0.139% |
| 26 | 4.635 | 4.621 | 4.668 | VV | 230 | 5102 | 0.14% | 0.044% |
| 27 | 4.695 | 4.668 | 4.728 | VV | 506 | 9196 | 0.24% | 0.080% |
| 28 | 4.759 | 4.728 | 4.796 | VV | 955 | 14970 | 0.40% | 0.130% |
| 29 | 4.820 | 4.796 | 4.837 | VV | 899 | 11119 | 0.30% | 0.096% |
| 30 | 4.854 | 4.837 | 4.944 | VV | 1363 | 25785 | 0.69% | 0.223% |
| 31 | 4.956 | 4.944 | 4.968 | VV | 282 | 3704 | 0.10% | 0.032% |
| 32 | 4.984 | 4.968 | 5.049 | VV | 455 | 13551 | 0.36% | 0.117% |
| 33 | 5.063 | 5.049 | 5.131 | VV | 264 | 7897 | 0.21% | 0.068% |
| 34 | 5.138 | 5.131 | 5.165 | VV | 124 | 1921 | 0.05% | 0.017% |
| 35 | 5.184 | 5.165 | 5.204 | VV | 301 | 4111 | 0.11% | 0.036% |
| 36 | 5.215 | 5.204 | 5.224 | VV | 193 | 1879 | 0.05% | 0.016% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.271 | 5.224 | 5.301 | VV | 3175 | 44597 | 1.19% | 0.386% |
| 38 | 5.332 | 5.301 | 5.370 | VV | 710 | 10783 | 0.29% | 0.093% |
| 39 | 5.388 | 5.370 | 5.417 | VV | 115 | 2442 | 0.06% | 0.021% |
| 40 | 5.480 | 5.417 | 5.499 | PV | 181 | 4401 | 0.12% | 0.038% |
| 41 | 5.516 | 5.499 | 5.557 | VV | 322 | 5015 | 0.13% | 0.043% |
| 42 | 5.574 | 5.557 | 5.601 | VV | 130 | 2019 | 0.05% | 0.017% |
| 43 | 5.611 | 5.601 | 5.635 | VV | 80 | 864 | 0.02% | 0.007% |
| 44 | 5.642 | 5.635 | 5.652 | VV | 93 | 621 | 0.02% | 0.005% |
| 45 | 5.669 | 5.652 | 5.688 | VV | 143 | 1807 | 0.05% | 0.016% |
| 46 | 5.707 | 5.688 | 5.725 | VV | 660 | 7659 | 0.20% | 0.066% |
| 47 | 5.751 | 5.725 | 5.791 | VV | 1104 | 13752 | 0.37% | 0.119% |
| 48 | 5.811 | 5.791 | 5.835 | VV | 354 | 4030 | 0.11% | 0.035% |
| 49 | 5.849 | 5.835 | 5.869 | VV | 112 | 1694 | 0.05% | 0.015% |
| 50 | 5.898 | 5.869 | 5.956 | VV | 232 | 6179 | 0.16% | 0.053% |
| 51 | 5.965 | 5.956 | 5.986 | VV | 97 | 1375 | 0.04% | 0.012% |
| 52 | 6.014 | 5.986 | 6.107 | VV | 212 | 6752 | 0.18% | 0.058% |
| 53 | 6.135 | 6.107 | 6.163 | VV | 96 | 1838 | 0.05% | 0.016% |
| 54 | 6.191 | 6.163 | 6.211 | PV | 163 | 2001 | 0.05% | 0.017% |
| 55 | 6.232 | 6.211 | 6.255 | VV | 135 | 2385 | 0.06% | 0.021% |
| 56 | 6.277 | 6.255 | 6.311 | VV | 330 | 7169 | 0.19% | 0.062% |
| 57 | 6.339 | 6.311 | 6.356 | VV | 357 | 5576 | 0.15% | 0.048% |
| 58 | 6.383 | 6.356 | 6.415 | VV | 674 | 10487 | 0.28% | 0.091% |
| 59 | 6.448 | 6.415 | 6.481 | VV | 444 | 9372 | 0.25% | 0.081% |
| 60 | 6.520 | 6.481 | 6.547 | VV | 357 | 9176 | 0.24% | 0.079% |
| 61 | 6.566 | 6.547 | 6.592 | VV | 184 | 3264 | 0.09% | 0.028% |
| 62 | 6.621 | 6.592 | 6.668 | VV | 195 | 4623 | 0.12% | 0.040% |
| 63 | 6.700 | 6.668 | 6.715 | VV | 100 | 2369 | 0.06% | 0.020% |
| 64 | 6.737 | 6.715 | 6.803 | VV | 5073 | 54481 | 1.45% | 0.471% |
| 65 | 6.825 | 6.803 | 6.848 | VV | 577 | 6826 | 0.18% | 0.059% |
| 66 | 6.860 | 6.848 | 6.873 | VV | 303 | 3023 | 0.08% | 0.026% |
| 67 | 6.892 | 6.873 | 6.912 | VV | 998 | 11087 | 0.29% | 0.096% |
| 68 | 6.927 | 6.912 | 6.947 | VV | 334 | 4030 | 0.11% | 0.035% |
| 69 | 6.966 | 6.947 | 6.989 | VV | 509 | 5425 | 0.14% | 0.047% |
| 70 | 7.001 | 6.989 | 7.011 | VV | 41 | 485 | 0.01% | 0.004% |
| 71 | 7.027 | 7.011 | 7.043 | VV | 93 | 784 | 0.02% | 0.007% |
| 72 | 7.073 | 7.043 | 7.092 | PV | 129 | 1896 | 0.05% | 0.016% |
| 73 | 7.115 | 7.092 | 7.138 | VV | 141 | 2106 | 0.06% | 0.018% |
| 74 | 7.144 | 7.138 | 7.168 | VV | 132 | 1178 | 0.03% | 0.010% |
| 75 | 7.194 | 7.168 | 7.227 | VV | 593 | 7269 | 0.19% | 0.063% |
| 76 | 7.248 | 7.227 | 7.283 | VV | 866 | 15322 | 0.41% | 0.133% |
| 77 | 7.299 | 7.283 | 7.348 | VV | 654 | 15976 | 0.42% | 0.138% |
| 78 | 7.378 | 7.348 | 7.399 | VV | 1094 | 16549 | 0.44% | 0.143% |
| 79 | 7.416 | 7.399 | 7.438 | VV | 242 | 4132 | 0.11% | 0.036% |
| 80 | 7.460 | 7.438 | 7.472 | VV | 296 | 4171 | 0.11% | 0.036% |
| 81 | 7.485 | 7.472 | 7.505 | VV | 274 | 3741 | 0.10% | 0.032% |
| 82 | 7.511 | 7.505 | 7.521 | VV | 134 | 1056 | 0.03% | 0.009% |
| 83 | 7.543 | 7.521 | 7.580 | VV | 2346 | 27828 | 0.74% | 0.241% |
| 84 | 7.604 | 7.580 | 7.614 | VV | 343 | 4669 | 0.12% | 0.040% |
| 85 | 7.624 | 7.614 | 7.638 | VV | 302 | 3445 | 0.09% | 0.030% |
| 86 | 7.653 | 7.638 | 7.665 | VV | 507 | 5814 | 0.15% | 0.050% |
| 87 | 7.685 | 7.665 | 7.708 | VV | 1216 | 15479 | 0.41% | 0.134% |
| 88 | 7.724 | 7.708 | 7.733 | VV | 259 | 3011 | 0.08% | 0.026% |
| 89 | 7.751 | 7.733 | 7.764 | VV | 387 | 5343 | 0.14% | 0.046% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.779 | 7.764 | 7.809 | VV | 558 | 6791 | 0.18% | 0.059% |
| 91 | 7.852 | 7.809 | 7.879 | VV | 169 | 4225 | 0.11% | 0.037% |
| 92 | 7.898 | 7.879 | 7.919 | VV | 119 | 1502 | 0.04% | 0.013% |
| 93 | 7.952 | 7.919 | 7.976 | PV | 1009 | 11730 | 0.31% | 0.101% |
| 94 | 8.000 | 7.976 | 8.019 | VV | 871 | 9734 | 0.26% | 0.084% |
| 95 | 8.037 | 8.019 | 8.073 | VV | 245 | 5573 | 0.15% | 0.048% |
| 96 | 8.114 | 8.073 | 8.137 | VV | 252 | 6501 | 0.17% | 0.056% |
| 97 | 8.148 | 8.137 | 8.198 | VV | 263 | 5412 | 0.14% | 0.047% |
| 98 | 8.216 | 8.198 | 8.238 | VV | 227 | 3097 | 0.08% | 0.027% |
| 99 | 8.261 | 8.238 | 8.288 | VV | 816 | 9956 | 0.26% | 0.086% |
| 100 | 8.317 | 8.288 | 8.338 | VV | 1015 | 11931 | 0.32% | 0.103% |
| 101 | 8.355 | 8.338 | 8.375 | VV | 197 | 3043 | 0.08% | 0.026% |
| 102 | 8.387 | 8.375 | 8.454 | VV | 256 | 5523 | 0.15% | 0.048% |
| 103 | 8.474 | 8.454 | 8.504 | VV | 410 | 5739 | 0.15% | 0.050% |
| 104 | 8.512 | 8.504 | 8.538 | VV | 132 | 1826 | 0.05% | 0.016% |
| 105 | 8.569 | 8.538 | 8.644 | VV | 3155 | 41165 | 1.09% | 0.356% |
| 106 | 8.683 | 8.644 | 8.708 | VV | 491 | 12868 | 0.34% | 0.111% |
| 107 | 8.720 | 8.708 | 8.744 | VV | 520 | 6903 | 0.18% | 0.060% |
| 108 | 8.764 | 8.744 | 8.786 | VV | 420 | 5720 | 0.15% | 0.049% |
| 109 | 8.806 | 8.786 | 8.839 | VV | 520 | 6380 | 0.17% | 0.055% |
| 110 | 8.872 | 8.839 | 8.910 | VV | 34694 | 361170 | 9.60% | 3.125% |
| 111 | 8.920 | 8.910 | 8.961 | VV | 544 | 10088 | 0.27% | 0.087% |
| 112 | 8.988 | 8.961 | 9.005 | VV | 341 | 7350 | 0.20% | 0.064% |
| 113 | 9.033 | 9.005 | 9.049 | VV | 549 | 11046 | 0.29% | 0.096% |
| 114 | 9.063 | 9.049 | 9.077 | VV | 503 | 6932 | 0.18% | 0.060% |
| 115 | 9.112 | 9.077 | 9.158 | VV | 960 | 25115 | 0.67% | 0.217% |
| 116 | 9.176 | 9.158 | 9.204 | VV | 446 | 5488 | 0.15% | 0.047% |
| 117 | 9.230 | 9.204 | 9.254 | VV | 377 | 5655 | 0.15% | 0.049% |
| 118 | 9.295 | 9.254 | 9.315 | VV | 1167 | 17778 | 0.47% | 0.154% |
| 119 | 9.335 | 9.315 | 9.369 | VV | 964 | 20367 | 0.54% | 0.176% |
| 120 | 9.416 | 9.369 | 9.465 | VV | 2077 | 45771 | 1.22% | 0.396% |
| 121 | 9.486 | 9.465 | 9.513 | VV | 637 | 8520 | 0.23% | 0.074% |
| 122 | 9.535 | 9.513 | 9.568 | VV | 458 | 6252 | 0.17% | 0.054% |
| 123 | 9.617 | 9.568 | 9.661 | VV | 326 | 10115 | 0.27% | 0.088% |
| 124 | 9.702 | 9.661 | 9.741 | VV | 557 | 13750 | 0.37% | 0.119% |
| 125 | 9.766 | 9.741 | 9.803 | VV | 1143 | 18248 | 0.49% | 0.158% |
| 126 | 9.822 | 9.803 | 9.831 | VV | 251 | 2756 | 0.07% | 0.024% |
| 127 | 9.839 | 9.831 | 9.884 | VV | 238 | 5420 | 0.14% | 0.047% |
| 128 | 9.906 | 9.884 | 9.941 | VV | 518 | 8495 | 0.23% | 0.074% |
| 129 | 9.959 | 9.941 | 10.000 | VV | 563 | 8400 | 0.22% | 0.073% |
| 130 | 10.015 | 10.000 | 10.034 | VV | 259 | 2747 | 0.07% | 0.024% |
| 131 | 10.047 | 10.034 | 10.071 | VV | 165 | 2067 | 0.05% | 0.018% |
| 132 | 10.099 | 10.071 | 10.157 | VV | 505 | 8663 | 0.23% | 0.075% |
| 133 | 10.180 | 10.157 | 10.218 | VV | 1672 | 20542 | 0.55% | 0.178% |
| 134 | 10.252 | 10.218 | 10.300 | VV | 373 | 11563 | 0.31% | 0.100% |
| 135 | 10.327 | 10.300 | 10.410 | VV | 232 | 8217 | 0.22% | 0.071% |
| 136 | 10.429 | 10.410 | 10.438 | PV | 123 | 1584 | 0.04% | 0.014% |
| 137 | 10.459 | 10.438 | 10.473 | VV | 266 | 3628 | 0.10% | 0.031% |
| 138 | 10.504 | 10.473 | 10.521 | VV | 388 | 7712 | 0.20% | 0.067% |
| 139 | 10.527 | 10.521 | 10.540 | VV | 279 | 2730 | 0.07% | 0.024% |
| 140 | 10.573 | 10.540 | 10.595 | VV | 819 | 15008 | 0.40% | 0.130% |
| 141 | 10.612 | 10.595 | 10.632 | VV | 577 | 9066 | 0.24% | 0.078% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.657 | 10.632 | 10.685 | VV | 369 | 8526 | 0.23% | 0.074% |
| 143 | 10.698 | 10.685 | 10.708 | VV | 221 | 2621 | 0.07% | 0.023% |
| 144 | 10.715 | 10.708 | 10.730 | VV | 219 | 2311 | 0.06% | 0.020% |
| 145 | 10.741 | 10.730 | 10.758 | VV | 197 | 2569 | 0.07% | 0.022% |
| 146 | 10.784 | 10.758 | 10.798 | VV | 463 | 7473 | 0.20% | 0.065% |
| 147 | 10.819 | 10.798 | 10.834 | VV | 435 | 8247 | 0.22% | 0.071% |
| 148 | 10.855 | 10.834 | 10.885 | VV | 596 | 14232 | 0.38% | 0.123% |
| 149 | 10.920 | 10.885 | 10.960 | VV | 1038 | 26622 | 0.71% | 0.230% |
| 150 | 10.995 | 10.960 | 11.024 | VV | 757 | 21278 | 0.57% | 0.184% |
| 151 | 11.051 | 11.024 | 11.089 | VV | 1187 | 26451 | 0.70% | 0.229% |
| 152 | 11.097 | 11.089 | 11.120 | VV | 289 | 4867 | 0.13% | 0.042% |
| 153 | 11.144 | 11.120 | 11.188 | VV | 361 | 10728 | 0.29% | 0.093% |
| 154 | 11.207 | 11.188 | 11.228 | VV | 284 | 5511 | 0.15% | 0.048% |
| 155 | 11.245 | 11.228 | 11.277 | VV | 429 | 8638 | 0.23% | 0.075% |
| 156 | 11.313 | 11.277 | 11.326 | VV | 433 | 10620 | 0.28% | 0.092% |
| 157 | 11.348 | 11.326 | 11.397 | VV | 693 | 16471 | 0.44% | 0.143% |
| 158 | 11.423 | 11.397 | 11.502 | VV | 265 | 10393 | 0.28% | 0.090% |
| 159 | 11.512 | 11.502 | 11.528 | VV | 150 | 1771 | 0.05% | 0.015% |
| 160 | 11.556 | 11.528 | 11.586 | VV | 3496 | 46783 | 1.24% | 0.405% |
| 161 | 11.628 | 11.586 | 11.656 | VV | 2872 | 41052 | 1.09% | 0.355% |
| 162 | 11.676 | 11.656 | 11.684 | VV | 244 | 3484 | 0.09% | 0.030% |
| 163 | 11.721 | 11.684 | 11.758 | VV | 1521 | 24592 | 0.65% | 0.213% |
| 164 | 11.781 | 11.758 | 11.797 | VV | 177 | 2495 | 0.07% | 0.022% |
| 165 | 11.815 | 11.797 | 11.823 | PV | 99 | 887 | 0.02% | 0.008% |
| 166 | 11.859 | 11.823 | 11.886 | VV | 202 | 4345 | 0.12% | 0.038% |
| 167 | 11.944 | 11.886 | 11.965 | VV | 369 | 11170 | 0.30% | 0.097% |
| 168 | 11.983 | 11.965 | 11.998 | VV | 414 | 6204 | 0.16% | 0.054% |
| 169 | 12.020 | 11.998 | 12.041 | VV | 612 | 10749 | 0.29% | 0.093% |
| 170 | 12.083 | 12.041 | 12.131 | VV | 518 | 16852 | 0.45% | 0.146% |
| 171 | 12.147 | 12.131 | 12.162 | VV | 219 | 2775 | 0.07% | 0.024% |
| 172 | 12.292 | 12.162 | 12.325 | VV | 1080 | 39231 | 1.04% | 0.339% |
| 173 | 12.341 | 12.325 | 12.364 | VV | 444 | 7253 | 0.19% | 0.063% |
| 174 | 12.392 | 12.364 | 12.409 | VV | 291 | 6753 | 0.18% | 0.058% |
| 175 | 12.431 | 12.409 | 12.481 | VV | 498 | 14287 | 0.38% | 0.124% |
| 176 | 12.519 | 12.481 | 12.558 | VV | 977 | 25179 | 0.67% | 0.218% |
| 177 | 12.582 | 12.558 | 12.618 | VV | 478 | 12424 | 0.33% | 0.107% |
| 178 | 12.627 | 12.618 | 12.650 | VV | 334 | 5047 | 0.13% | 0.044% |
| 179 | 12.670 | 12.650 | 12.682 | VV | 228 | 4145 | 0.11% | 0.036% |
| 180 | 12.708 | 12.682 | 12.725 | VV | 398 | 8144 | 0.22% | 0.070% |
| 181 | 12.749 | 12.725 | 12.764 | VV | 671 | 10471 | 0.28% | 0.091% |
| 182 | 12.801 | 12.764 | 12.838 | VV | 1933 | 34358 | 0.91% | 0.297% |
| 183 | 12.874 | 12.838 | 12.910 | VV | 1443 | 23140 | 0.62% | 0.200% |
| 184 | 12.938 | 12.910 | 12.966 | VV | 2587 | 33019 | 0.88% | 0.286% |
| 185 | 12.976 | 12.966 | 12.988 | VV | 225 | 2557 | 0.07% | 0.022% |
| 186 | 12.999 | 12.988 | 13.034 | VV | 247 | 4942 | 0.13% | 0.043% |
| 187 | 13.055 | 13.034 | 13.132 | VV | 308 | 8258 | 0.22% | 0.071% |
| 188 | 13.141 | 13.132 | 13.172 | PV | 53 | 720 | 0.02% | 0.006% |
| 189 | 13.224 | 13.172 | 13.248 | VV | 306 | 8305 | 0.22% | 0.072% |
| 190 | 13.331 | 13.248 | 13.347 | VV | 536 | 13957 | 0.37% | 0.121% |
| 191 | 13.386 | 13.347 | 13.422 | VV | 308253 | 3762168 | 100.00% | 32.552% |
| 192 | 13.442 | 13.422 | 13.480 | VV | 512 | 11560 | 0.31% | 0.100% |
| 193 | 13.490 | 13.480 | 13.501 | VV | 250 | 2663 | 0.07% | 0.023% |
| 194 | 13.551 | 13.501 | 13.586 | VV | 3482 | 51918 | 1.38% | 0.449% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.605 | 13.586 | 13.644 | VV | 421 | 11442 | 0.30% | 0.099% |
| 196 | 13.674 | 13.644 | 13.705 | VV | 299 | 7659 | 0.20% | 0.066% |
| 197 | 13.773 | 13.705 | 13.797 | VV | 531 | 16109 | 0.43% | 0.139% |
| 198 | 13.826 | 13.797 | 13.869 | VV | 561 | 17682 | 0.47% | 0.153% |
| 199 | 13.895 | 13.869 | 13.914 | VV | 276 | 5866 | 0.16% | 0.051% |
| 200 | 13.990 | 13.914 | 14.033 | VV | 426 | 20305 | 0.54% | 0.176% |
| 201 | 14.052 | 14.033 | 14.065 | VV | 354 | 5043 | 0.13% | 0.044% |
| 202 | 14.084 | 14.065 | 14.107 | VV | 1021 | 14525 | 0.39% | 0.126% |
| 203 | 14.138 | 14.107 | 14.181 | VV | 9416 | 119042 | 3.16% | 1.030% |
| 204 | 14.196 | 14.181 | 14.265 | VV | 205 | 6206 | 0.16% | 0.054% |
| 205 | 14.270 | 14.265 | 14.302 | VV | 105 | 1639 | 0.04% | 0.014% |
| 206 | 14.374 | 14.302 | 14.397 | PV | 461 | 11719 | 0.31% | 0.101% |
| 207 | 14.410 | 14.397 | 14.449 | VV | 211 | 5495 | 0.15% | 0.048% |
| 208 | 14.471 | 14.449 | 14.487 | VV | 209 | 3728 | 0.10% | 0.032% |
| 209 | 14.502 | 14.487 | 14.520 | VV | 268 | 3867 | 0.10% | 0.033% |
| 210 | 14.575 | 14.520 | 14.615 | VV | 993 | 23261 | 0.62% | 0.201% |
| 211 | 14.635 | 14.615 | 14.652 | VV | 244 | 4783 | 0.13% | 0.041% |
| 212 | 14.702 | 14.652 | 14.747 | VV | 12909 | 165586 | 4.40% | 1.433% |
| 213 | 14.839 | 14.747 | 14.888 | VV | 458 | 24707 | 0.66% | 0.214% |
| 214 | 14.905 | 14.888 | 14.931 | VV | 319 | 6436 | 0.17% | 0.056% |
| 215 | 14.958 | 14.931 | 14.993 | VV | 300 | 9168 | 0.24% | 0.079% |
| 216 | 15.017 | 14.993 | 15.034 | VV | 404 | 7629 | 0.20% | 0.066% |
| 217 | 15.050 | 15.034 | 15.075 | VV | 599 | 10332 | 0.27% | 0.089% |
| 218 | 15.098 | 15.075 | 15.115 | VV | 291 | 5720 | 0.15% | 0.049% |
| 219 | 15.130 | 15.115 | 15.155 | VV | 162 | 2753 | 0.07% | 0.024% |
| 220 | 15.198 | 15.155 | 15.213 | VV | 743 | 11533 | 0.31% | 0.100% |
| 221 | 15.243 | 15.213 | 15.358 | VV | 18020 | 238625 | 6.34% | 2.065% |
| 222 | 15.365 | 15.358 | 15.372 | VV | 66 | 296 | 0.01% | 0.003% |
| 223 | 15.387 | 15.372 | 15.398 | VV | 85 | 727 | 0.02% | 0.006% |
| 224 | 15.420 | 15.398 | 15.430 | VV | 135 | 1906 | 0.05% | 0.016% |
| 225 | 15.445 | 15.430 | 15.459 | VV | 159 | 2269 | 0.06% | 0.020% |
| 226 | 15.468 | 15.459 | 15.528 | VV | 92 | 2926 | 0.08% | 0.025% |
| 227 | 15.579 | 15.528 | 15.601 | VV | 579 | 8863 | 0.24% | 0.077% |
| 228 | 15.628 | 15.601 | 15.645 | VV | 305 | 4602 | 0.12% | 0.040% |
| 229 | 15.675 | 15.645 | 15.704 | VV | 288 | 5859 | 0.16% | 0.051% |
| 230 | 15.764 | 15.704 | 15.875 | VV | 17842 | 248516 | 6.61% | 2.150% |
| 231 | 15.943 | 15.875 | 15.973 | VV | 283 | 9685 | 0.26% | 0.084% |
| 232 | 15.985 | 15.973 | 16.015 | VV | 172 | 3468 | 0.09% | 0.030% |
| 233 | 16.087 | 16.015 | 16.111 | VV | 1241 | 28424 | 0.76% | 0.246% |
| 234 | 16.134 | 16.111 | 16.178 | VV | 822 | 16893 | 0.45% | 0.146% |
| 235 | 16.189 | 16.178 | 16.197 | VV | 151 | 1318 | 0.04% | 0.011% |
| 236 | 16.225 | 16.197 | 16.235 | VV | 611 | 8114 | 0.22% | 0.070% |
| 237 | 16.265 | 16.235 | 16.305 | VV | 19650 | 270703 | 7.20% | 2.342% |
| 238 | 16.311 | 16.305 | 16.343 | VV | 314 | 4540 | 0.12% | 0.039% |
| 239 | 16.361 | 16.343 | 16.371 | PV | 129 | 1398 | 0.04% | 0.012% |
| 240 | 16.458 | 16.371 | 16.476 | VV | 209 | 7863 | 0.21% | 0.068% |
| 241 | 16.492 | 16.476 | 16.531 | VV | 174 | 3675 | 0.10% | 0.032% |
| 242 | 16.575 | 16.531 | 16.600 | VV | 1159 | 21388 | 0.57% | 0.185% |
| 243 | 16.624 | 16.600 | 16.685 | VV | 882 | 17156 | 0.46% | 0.148% |
| 244 | 16.748 | 16.685 | 16.782 | PV | 18280 | 253802 | 6.75% | 2.196% |
| 245 | 16.793 | 16.782 | 16.821 | VV | 298 | 4886 | 0.13% | 0.042% |
| 246 | 16.828 | 16.821 | 16.845 | VV | 180 | 1991 | 0.05% | 0.017% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 16.875 | 16.845 | 16.887 | VV | 245 | 4074 | 0.11% | 0.035% |
| 248 | 16.916 | 16.887 | 16.937 | VV | 257 | 6588 | 0.18% | 0.057% |
| 249 | 16.974 | 16.937 | 16.985 | VV | 386 | 8259 | 0.22% | 0.071% |
| 250 | 16.992 | 16.985 | 17.001 | VV | 307 | 2621 | 0.07% | 0.023% |
| 251 | 17.049 | 17.001 | 17.071 | VV | 1293 | 26897 | 0.71% | 0.233% |
| 252 | 17.098 | 17.071 | 17.125 | VV | 992 | 18840 | 0.50% | 0.163% |
| 253 | 17.138 | 17.125 | 17.153 | VV | 374 | 4860 | 0.13% | 0.042% |
| 254 | 17.215 | 17.153 | 17.290 | VV | 17235 | 251768 | 6.69% | 2.178% |
| 255 | 17.343 | 17.290 | 17.361 | VV | 470 | 8816 | 0.23% | 0.076% |
| 256 | 17.375 | 17.361 | 17.397 | VV | 235 | 3335 | 0.09% | 0.029% |
| 257 | 17.453 | 17.397 | 17.468 | VV | 325 | 7932 | 0.21% | 0.069% |
| 258 | 17.505 | 17.468 | 17.528 | VV | 971 | 19110 | 0.51% | 0.165% |
| 259 | 17.552 | 17.528 | 17.580 | VV | 1435 | 20867 | 0.55% | 0.181% |
| 260 | 17.601 | 17.580 | 17.625 | VV | 333 | 4375 | 0.12% | 0.038% |
| 261 | 17.667 | 17.625 | 17.728 | VV | 18070 | 248419 | 6.60% | 2.149% |
| 262 | 17.782 | 17.728 | 17.835 | PV | 385 | 12043 | 0.32% | 0.104% |
| 263 | 17.842 | 17.835 | 17.848 | VV | 186 | 1225 | 0.03% | 0.011% |
| 264 | 17.881 | 17.848 | 17.908 | VV | 298 | 7366 | 0.20% | 0.064% |
| 265 | 17.948 | 17.908 | 17.971 | VV | 1097 | 20020 | 0.53% | 0.173% |
| 266 | 17.994 | 17.971 | 18.017 | VV | 856 | 12565 | 0.33% | 0.109% |
| 267 | 18.053 | 18.017 | 18.061 | VV | 366 | 6694 | 0.18% | 0.058% |
| 268 | 18.103 | 18.061 | 18.135 | VV | 14723 | 201673 | 5.36% | 1.745% |
| 269 | 18.155 | 18.135 | 18.170 | VV | 170 | 2694 | 0.07% | 0.023% |
| 270 | 18.180 | 18.170 | 18.188 | VV | 170 | 1291 | 0.03% | 0.011% |
| 271 | 18.252 | 18.188 | 18.267 | VV | 464 | 14232 | 0.38% | 0.123% |
| 272 | 18.276 | 18.267 | 18.313 | VV | 468 | 8336 | 0.22% | 0.072% |
| 273 | 18.323 | 18.313 | 18.338 | VV | 252 | 2298 | 0.06% | 0.020% |
| 274 | 18.376 | 18.338 | 18.399 | VV | 885 | 16036 | 0.43% | 0.139% |
| 275 | 18.422 | 18.399 | 18.463 | VV | 799 | 13031 | 0.35% | 0.113% |
| 276 | 18.526 | 18.463 | 18.564 | VV | 12985 | 184909 | 4.91% | 1.600% |
| 277 | 18.586 | 18.564 | 18.593 | PV | 73 | 650 | 0.02% | 0.006% |
| 278 | 18.618 | 18.593 | 18.635 | VV | 271 | 3758 | 0.10% | 0.033% |
| 279 | 18.658 | 18.635 | 18.686 | VV | 293 | 6076 | 0.16% | 0.053% |
| 280 | 18.695 | 18.686 | 18.715 | VV | 137 | 2059 | 0.05% | 0.018% |
| 281 | 18.788 | 18.715 | 18.812 | VV | 1111 | 26138 | 0.69% | 0.226% |
| 282 | 18.836 | 18.812 | 18.878 | VV | 707 | 12273 | 0.33% | 0.106% |
| 283 | 18.936 | 18.878 | 18.988 | PV | 9872 | 158206 | 4.21% | 1.369% |
| 284 | 19.017 | 18.988 | 19.054 | VV | 579 | 10696 | 0.28% | 0.093% |
| 285 | 19.087 | 19.054 | 19.115 | VV | 475 | 10915 | 0.29% | 0.094% |
| 286 | 19.135 | 19.115 | 19.155 | VV | 268 | 4794 | 0.13% | 0.041% |
| 287 | 19.191 | 19.155 | 19.215 | VV | 615 | 12031 | 0.32% | 0.104% |
| 288 | 19.241 | 19.215 | 19.275 | VV | 571 | 10257 | 0.27% | 0.089% |
| 289 | 19.334 | 19.275 | 19.400 | PV | 7248 | 116969 | 3.11% | 1.012% |
| 290 | 19.507 | 19.400 | 19.547 | VV | 531 | 22168 | 0.59% | 0.192% |
| 291 | 19.583 | 19.547 | 19.603 | VV | 758 | 16363 | 0.43% | 0.142% |
| 292 | 19.628 | 19.603 | 19.664 | VV | 640 | 14846 | 0.39% | 0.128% |
| 293 | 19.720 | 19.664 | 19.751 | VV | 6067 | 100637 | 2.67% | 0.871% |
| 294 | 19.764 | 19.751 | 19.801 | VV | 506 | 10719 | 0.28% | 0.093% |
| 295 | 19.896 | 19.801 | 19.925 | VV | 625 | 33957 | 0.90% | 0.294% |
| 296 | 19.962 | 19.925 | 19.983 | VV | 741 | 21258 | 0.57% | 0.184% |
| 297 | 20.008 | 19.983 | 20.054 | VV | 803 | 25828 | 0.69% | 0.223% |
| 298 | 20.096 | 20.054 | 20.128 | VV | 4520 | 82575 | 2.19% | 0.714% |
| 299 | 20.153 | 20.128 | 20.171 | VV | 832 | 19384 | 0.52% | 0.168% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 20.279 | 20.171 | 20.298 | VV | 1171 | 73598 | 1.96% | 0.637% |
| 301 | 20.326 | 20.298 | 20.348 | VV | 1398 | 37612 | 1.00% | 0.325% |
| 302 | 20.370 | 20.348 | 20.401 | VV | 1584 | 45474 | 1.21% | 0.393% |
| 303 | 20.460 | 20.401 | 20.491 | VV | 4654 | 126454 | 3.36% | 1.094% |
| 304 | 20.522 | 20.491 | 20.542 | VV | 1943 | 55152 | 1.47% | 0.477% |
| 305 | 20.643 | 20.542 | 20.655 | VV | 2198 | 133926 | 3.56% | 1.159% |
| 306 | 20.733 | 20.655 | 20.758 | VV | 2560 | 143371 | 3.81% | 1.241% |
| 307 | 20.819 | 20.758 | 20.864 | VV | 4242 | 180224 | 4.79% | 1.559% |
| 308 | 20.874 | 20.864 | 20.883 | VV | 2320 | 25663 | 0.68% | 0.222% |
| 309 | 20.891 | 20.883 | 20.915 | VV | 2258 | 43315 | 1.15% | 0.375% |
| 310 | 21.007 | 20.915 | 21.045 | VV | 2524 | 183864 | 4.89% | 1.591% |
| 311 | 21.061 | 21.045 | 21.090 | VV | 2280 | 60581 | 1.61% | 0.524% |
| 312 | 21.124 | 21.090 | 21.144 | VV | 2304 | 72304 | 1.92% | 0.626% |
| 313 | 21.209 | 21.144 | 21.261 | VV | 3592 | 176545 | 4.69% | 1.528% |
| 314 | 21.291 | 21.261 | 21.308 | VV | 2099 | 57724 | 1.53% | 0.499% |
| 315 | 21.328 | 21.308 | 21.354 | VV | 2037 | 55809 | 1.48% | 0.483% |
| 316 | 21.376 | 21.354 | 21.384 | VV | 1972 | 34268 | 0.91% | 0.297% |
| 317 | 21.401 | 21.384 | 21.413 | VV | 1970 | 34066 | 0.91% | 0.295% |
| 318 | 21.434 | 21.413 | 21.471 | VV | 1939 | 65650 | 1.75% | 0.568% |
| 319 | 21.483 | 21.471 | 21.521 | VV | 1846 | 52848 | 1.40% | 0.457% |
| 320 | 21.544 | 21.521 | 21.595 | VV | 1846 | 74835 | 1.99% | 0.648% |
| 321 | 21.647 | 21.595 | 21.766 | VV | 2205 | 148379 | 3.94% | 1.284% |
| 322 | 21.771 | 21.766 | 21.807 | VV | 981 | 22077 | 0.59% | 0.191% |
| 323 | 21.825 | 21.807 | 21.868 | VV | 840 | 26940 | 0.72% | 0.233% |
| 324 | 21.877 | 21.868 | 21.901 | VV | 658 | 12929 | 0.34% | 0.112% |
| 325 | 21.960 | 21.901 | 21.975 | VV | 744 | 28578 | 0.76% | 0.247% |
| 326 | 22.050 | 21.975 | 22.064 | VV | 476 | 26232 | 0.70% | 0.227% |
| 327 | 22.082 | 22.064 | 22.091 | VV | 375 | 5828 | 0.15% | 0.050% |
| 328 | 22.144 | 22.091 | 22.251 | VBA | 1003 | 50579 | 1.34% | 0.438% |

Sum of corrected areas: 11557322

Aliphatic EPH 111424.M Wed Nov 20 01:28:08 2024

# CALIBRATION SUMMARY

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

# Inital Calibration Report for SequenceID : FC111424AL

**AreaCount**

| Parameter Range | FC067748.D | FC067749.D | FC067750.D | FC067751.D | FC067752.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 46442029.000 | 24666595.000 | 9992394.000 | 5182647.000 | 2556169.000 | |
| Aliphatic C12-C16 | 31783530.000 | 16951541.000 | 6841286.000 | 3561240.000 | 1743949.000 | |
| Aliphatic C16-C21 | 45893154.000 | 24733385.000 | 10219387.000 | 5444223.000 | 2676662.000 | |
| Aliphatic C21-C28 | 55776518.000 | 29828483.000 | 12486021.000 | 6692087.000 | 3488783.000 | |
| Aliphatic C28-C40 | 63293952.000 | 33876340.000 | 14624061.000 | 7555903.000 | 4180402.000 | |
| Aliphatic EPH | 243189183.000 | 130056344.000 | 54163149.000 | 28436100.000 | 14645965.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 165791.359333 | 4.188 | | | | |
| Aliphatic C12-C16 | 170384.422 | 4.229 | | | | |
| Aliphatic C16-C21 | 169621.5526664 | 6.711 | | | | |
| Aliphatic C21-C28 | 157280.0595 | 8.883 | | | | |
| Aliphatic C28-C40 | 121111.3356664 | 10.666 | | | | |
| Aliphatic EPH | 150155.3239994 | 7.279 | | | | |

**Concentration**

| Parameter Range | FC067748.D | FC067749.D | FC067750.D | FC067751.D | FC067752.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aliphatic C12-C16 | 200.000 | 100.000 | 40.000 | 20.000 | 10.000 | |
| Aliphatic C16-C21 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aliphatic C21-C28 | 400.000 | 200.000 | 80.000 | 40.000 | 20.000 | |
| Aliphatic C28-C40 | 600.000 | 300.000 | 120.000 | 60.000 | 30.000 | |
| Aliphatic EPH | 1800.000 | 900.000 | 360.000 | 180.000 | 90.000 | |

**Response Factor**

| Parameter Range | FC067748.D | FC067749.D | FC067750.D | FC067751.D | FC067752.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 154806.763333 | 164443.966666 | 166539.900000 | 172754.900000 | 170411.266666 | |
| Aliphatic C12-C16 | 158917.650000 | 169515.410000 | 171032.150000 | 178062.000000 | 174394.900000 | |
| Aliphatic C16-C21 | 152977.180000 | 164889.233333 | 170323.116666 | 181474.100000 | 178444.133333 | |

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

# Inital Calibration Report for SequenceID : FC111424AL

| | | | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C21-C28 | 139441.295000 | 149142.415000 | 156075.262500 | 167302.175000 | 174439.150000 | |
| Aliphatic C28-C40 | 105489.920000 | 112921.133333 | 121867.175000 | 125931.716666 | 139346.733333 | |
| Aliphatic EPH | 135105.101666 | 144507.048888 | 150453.191666 | 157978.333333 | 162732.944444 | |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067748.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 10:39
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 14 12:31:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) | S ortho-Terphenyl (SURR) | 11.500 | 17738644 | 95.322 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 190.64% |
| 12) | S 1-chlorooctadecane (S... | 12.935 | 13130093 | 94.678 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 189.36% |
| | Target Compounds | | | |
| 1) | T n-Nonane (C9) | 3.276 | 15187907 | 96.260 ug/ml |
| 2) | T n-Decane (C10) | 4.339 | 15507468 | 96.388 ug/ml |
| 3) | T A~Naphthalene (C11.7) | 5.917 | 17205086 | 96.635 ug/ml |
| 4) | T n-Dodecane (C12) | 6.354 | 15746654 | 96.395 ug/ml |
| 5) | T A~2-methylnaphthalene... | 6.973 | 16843025 | 97.053 ug/ml |
| 6) | T n-Tetradecane (C14) | 8.147 | 15675095 | 96.512 ug/ml |
| 7) | T n-Hexadecane (C16) | 9.746 | 16108435 | 96.150 ug/ml |
| 8) | T n-Octadecane (C18) | 11.187 | 16039699 | 95.046 ug/ml |
| 10) | T n-Eicosane (C20) | 12.493 | 15119356 | 94.475 ug/ml |
| 11) | T n-Heneicosane (C21) | 13.103 | 14734099 | 94.353 ug/ml |
| 13) | T n-Docosane (C22) | 13.688 | 14509212 | 94.210 ug/ml |
| 14) | T n-Tetracosane (C24) | 14.790 | 14199393 | 94.386 ug/ml |
| 15) | T n-Hexacosane (C26) | 15.809 | 13771253 | 94.721 ug/ml |
| 16) | T n-Octacosane (C28) | 16.757 | 13296660 | 94.172 ug/ml |
| 17) | T n-Tricontane (C30) | 17.643 | 13215277 | 93.043 ug/ml |
| 18) | T n-Dotriacontane (C32) | 18.473 | 12505064 | 92.088 ug/ml |
| 19) | T n-Tetratriacontane (C34) | 19.253 | 10875356 | 92.712 ug/ml |
| 20) | T n-Hexatriacontane (C36) | 19.992 | 9396830 | 94.927 ug/ml |
| 21) | T n-Octatriacontane (C38) | 20.714 | 8796691 | 94.705 ug/ml |
| 22) | T n-Tetracontane (C40) | 21.598 | 8504734 | 89.462 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

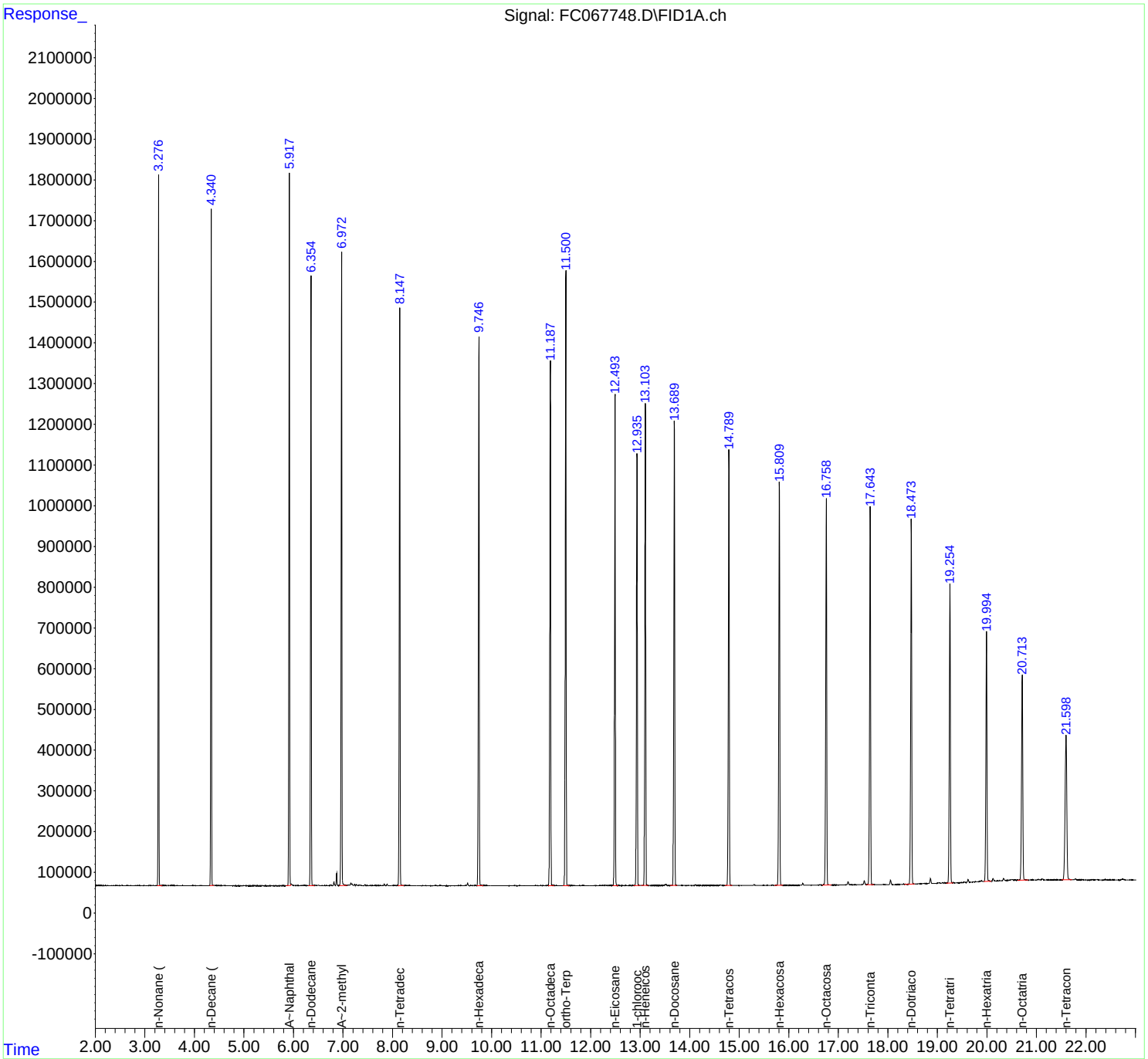
Quantitation Report (QT Reviewed)

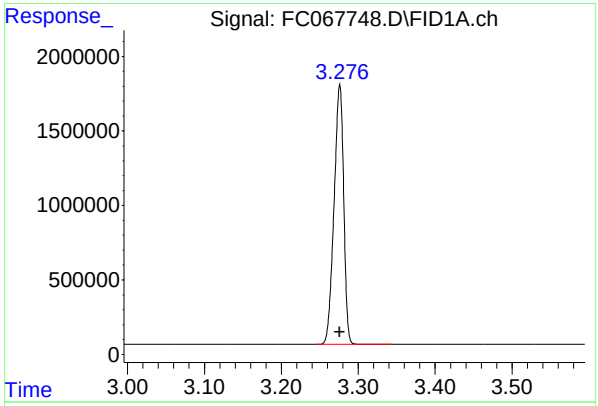
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067748.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 10:39
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 14 12:31:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

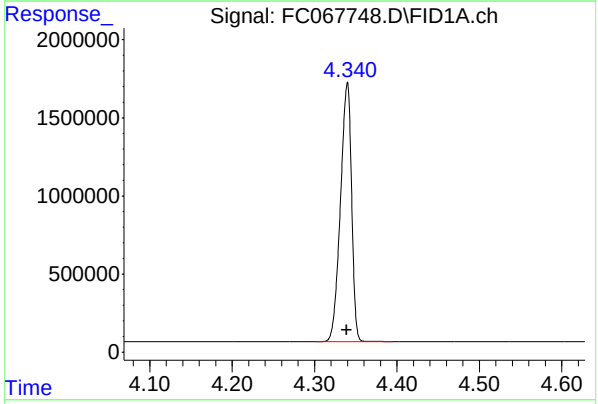





#1 n-Nonane (C9)

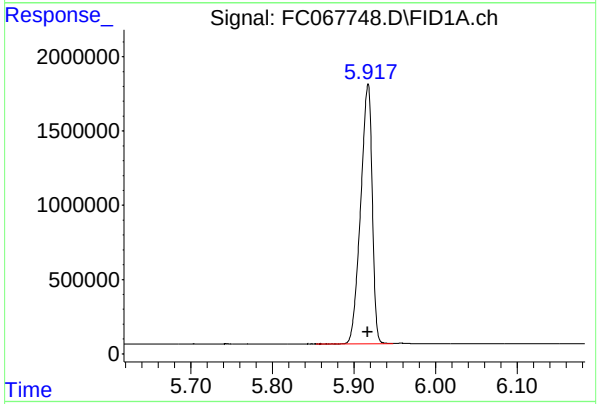
R.T.: 3.276 min
Delta R.T.: 0.000 min
Response: 15187907
Conc: 96.26 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1



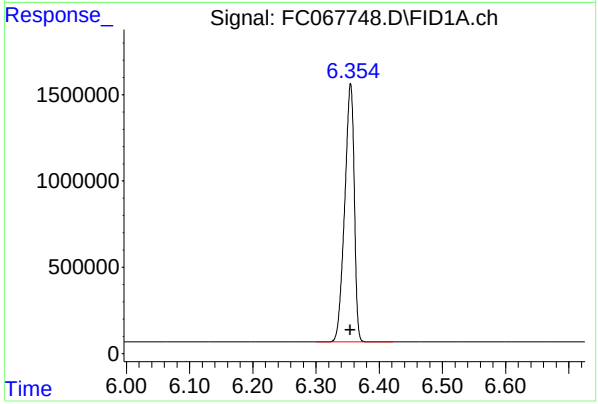

#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 15507468
Conc: 96.39 ug/ml



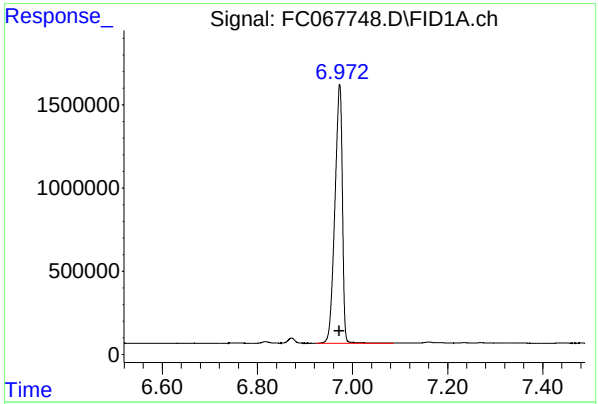

#3 A~Naphthalene (C11.7)

R.T.: 5.917 min
Delta R.T.: 0.000 min
Response: 17205086
Conc: 96.63 ug/ml




#4 n-Dodecane (C12)

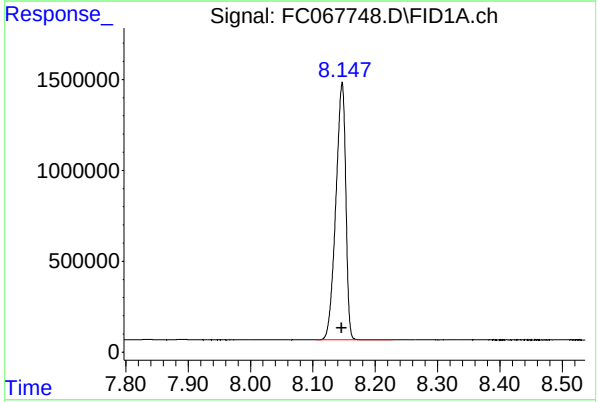
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 15746654
Conc: 96.40 ug/ml




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

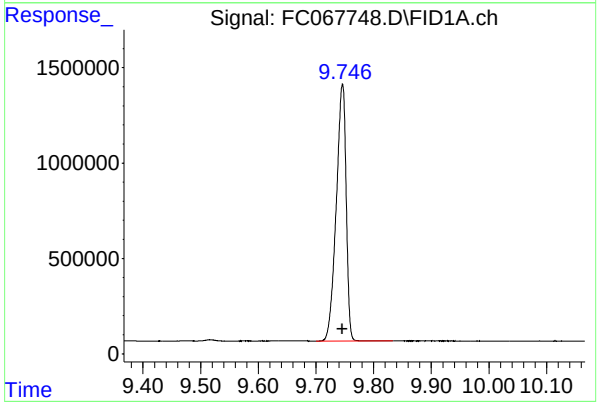
R.T.: 6.973 min
Delta R.T.: 0.000 min
Response: 16843025
Conc: 97.05 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1



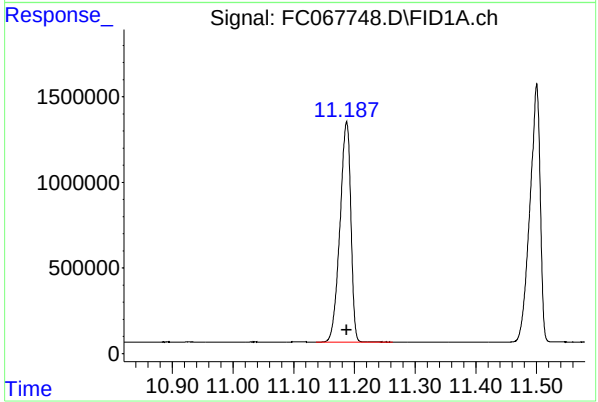

#6 n-Tetradecane (C14)

R.T.: 8.147 min
Delta R.T.: 0.000 min
Response: 15675095
Conc: 96.51 ug/ml



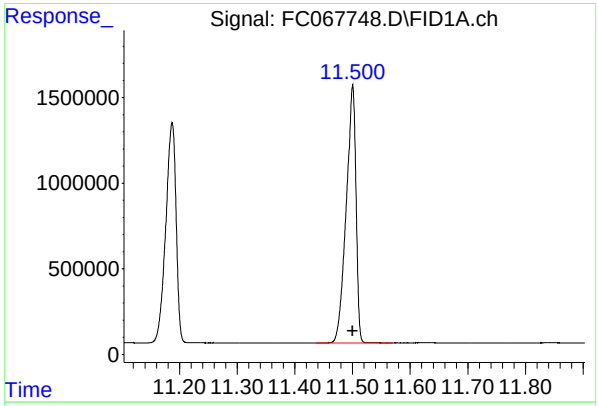

#7 n-Hexadecane (C16)

R.T.: 9.746 min
Delta R.T.: 0.000 min
Response: 16108435
Conc: 96.15 ug/ml




#8 n-Octadecane (C18)

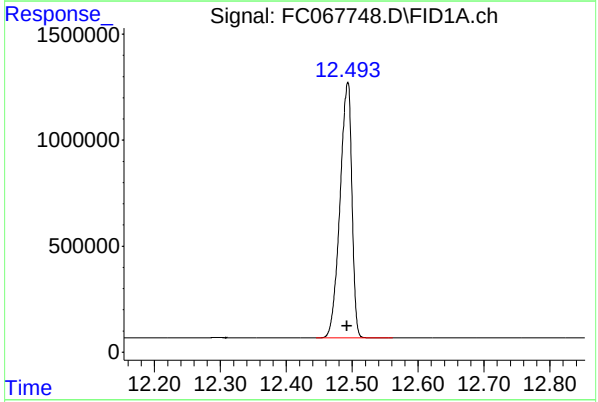
R.T.: 11.187 min
Delta R.T.: 0.000 min
Response: 16039699
Conc: 95.05 ug/ml




#9 ortho-Terphenyl (SURR)

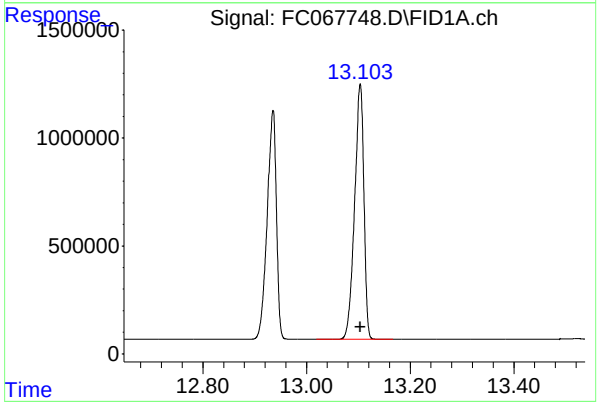
R.T.: 11.500 min
Delta R.T.: 0.000 min
Response: 17738644
Conc: 95.32 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1



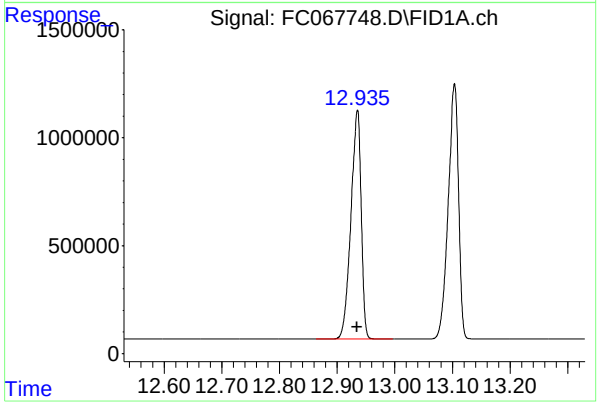

#10 n-Eicosane (C20)

R.T.: 12.493 min
Delta R.T.: 0.000 min
Response: 15119356
Conc: 94.48 ug/ml



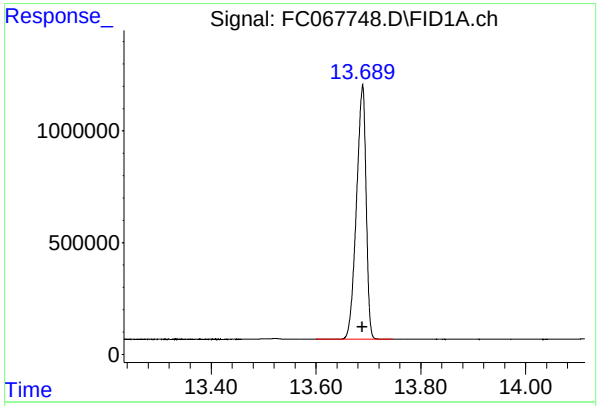

#11 n-Heneicosane (C21)

R.T.: 13.103 min
Delta R.T.: 0.000 min
Response: 14734099
Conc: 94.35 ug/ml




#12 1-chlorooctadecane (SURR)

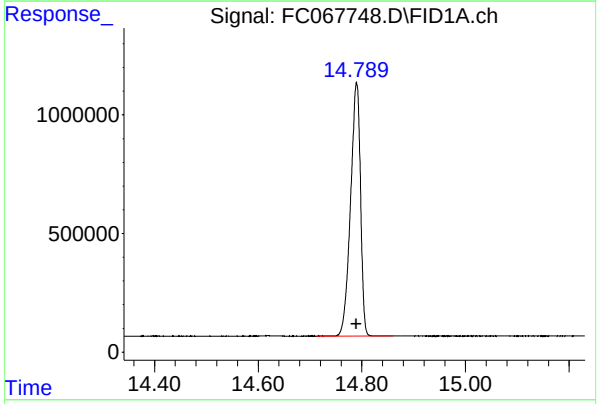
R.T.: 12.935 min
Delta R.T.: 0.000 min
Response: 13130093
Conc: 94.68 ug/ml




#13 n-Docosane (C22)

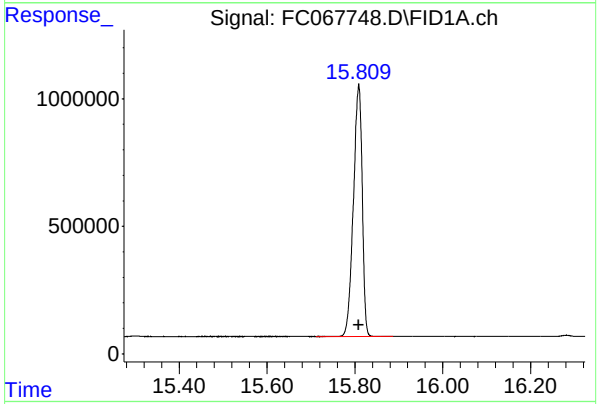
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 14509212
Conc: 94.21 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1



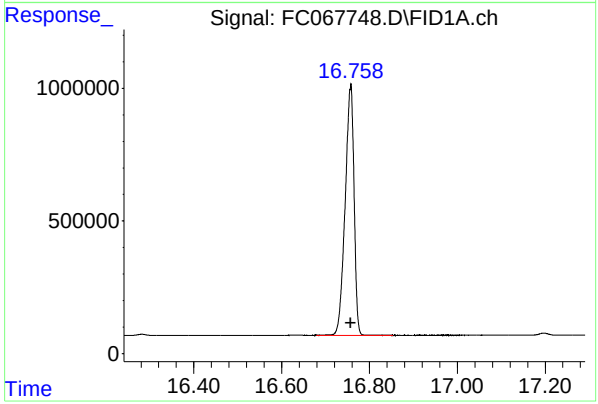

#14 n-Tetracosane (C24)

R.T.: 14.790 min
Delta R.T.: 0.000 min
Response: 14199393
Conc: 94.39 ug/ml



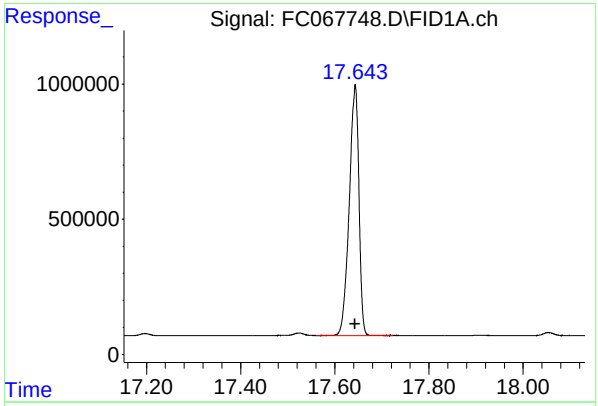

#15 n-Hexacosane (C26)

R.T.: 15.809 min
Delta R.T.: 0.000 min
Response: 13771253
Conc: 94.72 ug/ml




#16 n-Octacosane (C28)

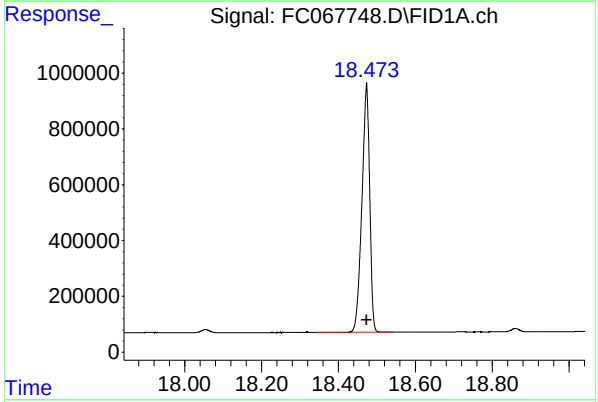
R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 13296660
Conc: 94.17 ug/ml




#17 n-Tricontane (C30)

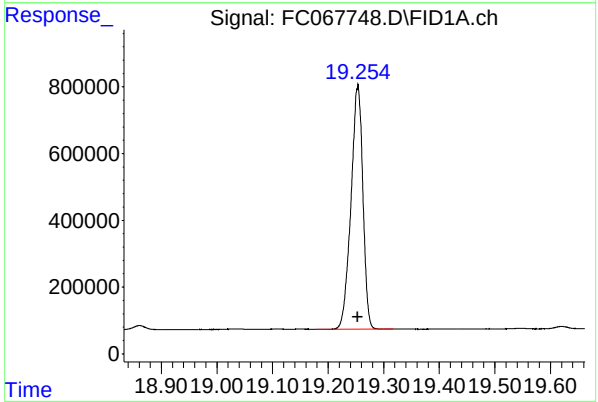
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 13215277
Conc: 93.04 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1



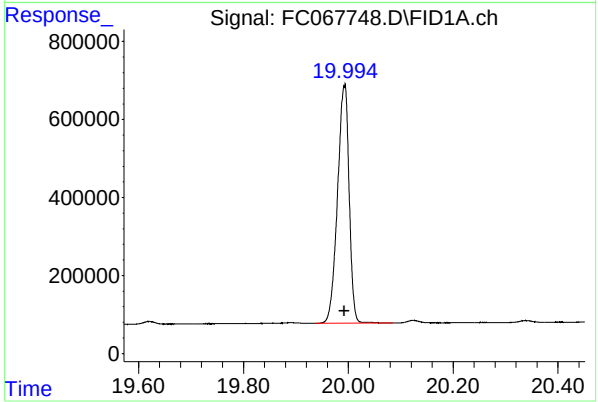

#18 n-Dotriacontane (C32)

R.T.: 18.473 min
Delta R.T.: 0.000 min
Response: 12505064
Conc: 92.09 ug/ml



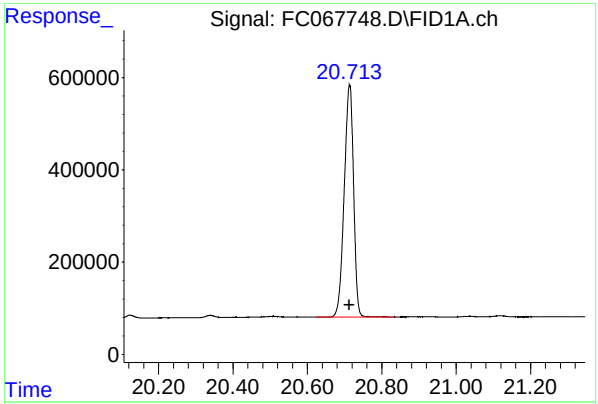

#19 n-Tetratriacontane (C34)

R.T.: 19.253 min
Delta R.T.: 0.000 min
Response: 10875356
Conc: 92.71 ug/ml




#20 n-Hexatriacontane (C36)

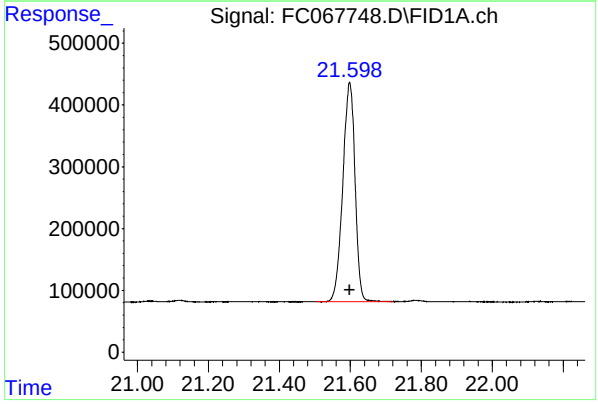
R.T.: 19.992 min
Delta R.T.: 0.000 min
Response: 9396830
Conc: 94.93 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 20.714 min
Delta R.T.: 0.000 min
Response: 8796691
Conc: 94.71 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1




#22 n-Tetracontane (C40)

R.T.: 21.598 min
Delta R.T.: 0.000 min
Response: 8504734
Conc: 89.46 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067748.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 10:39
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.276 | 3.245 | 3.345 | BB | 1734686 | 15187907 | 85.62% | 4.929% |
| 2 | 4.339 | 4.302 | 4.395 | BB | 1671634 | 15507468 | 87.42% | 5.033% |
| 3 | 5.917 | 5.853 | 5.948 | BV | 1741603 | 17205086 | 96.99% | 5.584% |
| 4 | 6.354 | 6.300 | 6.422 | BB | 1504993 | 15746654 | 88.77% | 5.111% |
| 5 | 6.973 | 6.923 | 7.085 | BV | 1555512 | 16843025 | 94.95% | 5.467% |
| 6 | 8.147 | 8.105 | 8.228 | BB | 1414819 | 15675095 | 88.37% | 5.088% |
| 7 | 9.746 | 9.700 | 9.833 | BB | 1343957 | 16108435 | 90.81% | 5.228% |
| 8 | 11.187 | 11.137 | 11.263 | BB | 1287050 | 16039699 | 90.42% | 5.206% |
| 9 | 11.500 | 11.437 | 11.570 | BB | 1506943 | 17738644 | 100.00% | 5.757% |
| 10 | 12.493 | 12.445 | 12.562 | BB | 1210292 | 15119356 | 85.23% | 4.907% |
| 11 | 12.935 | 12.863 | 12.997 | BB | 1061835 | 13130093 | 74.02% | 4.262% |
| 12 | 13.103 | 13.018 | 13.167 | BB | 1184295 | 14734099 | 83.06% | 4.782% |
| 13 | 13.688 | 13.600 | 13.747 | BB | 1129888 | 14509212 | 81.79% | 4.709% |
| 14 | 14.790 | 14.712 | 14.860 | BB | 1068773 | 14199393 | 80.05% | 4.609% |
| 15 | 15.809 | 15.712 | 15.887 | BB | 986127 | 13771253 | 77.63% | 4.470% |
| 16 | 16.757 | 16.678 | 16.853 | BB | 935979 | 13296660 | 74.96% | 4.316% |
| 17 | 17.643 | 17.560 | 17.723 | VB | 932069 | 13215277 | 74.50% | 4.289% |
| 18 | 18.473 | 18.342 | 18.542 | BB | 896427 | 12505064 | 70.50% | 4.059% |
| 19 | 19.253 | 19.178 | 19.317 | BB | 726903 | 10875356 | 61.31% | 3.530% |
| 20 | 19.992 | 19.938 | 20.085 | BV | 609569 | 9396830 | 52.97% | 3.050% |
| 21 | 20.714 | 20.623 | 20.830 | BB | 503719 | 8796691 | 49.59% | 2.855% |
| 22 | 21.598 | 21.503 | 21.720 | BB | 355009 | 8504734 | 47.94% | 2.760% |
| | | | Sum of corrected areas: | | | 308106031 | | |

Aliphatic EPH 111424.M Fri Nov 15 03:28:31 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067749.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:15
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 14 12:33:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.494 | 9494610 | 50.676 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 101.35% |
| 12) S | 1-chlorooctadecane (S... | 12.930 | 7061712 | 50.610 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 101.22% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.274 | 8066160 | 50.743 ug/ml |
| 2) T | n-Decane (C10) | 4.337 | 8240656 | 50.807 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 5.913 | 9139963 | 50.883 ug/ml |
| 4) T | n-Dodecane (C12) | 6.351 | 8359779 | 50.778 ug/ml |
| 5) T | A~2-methylnaphthalene... | 6.968 | 8894913 | 50.829 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.143 | 8337977 | 50.884 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.741 | 8613564 | 50.934 ug/ml |
| 8) T | n-Octadecane (C18) | 11.182 | 8636330 | 50.778 ug/ml |
| 10) T | n-Eicosane (C20) | 12.488 | 8156976 | 50.643 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.099 | 7940079 | 50.561 ug/ml |
| 13) T | n-Docosane (C22) | 13.684 | 7804830 | 50.450 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.786 | 7604012 | 50.362 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.804 | 7328788 | 50.272 ug/ml |
| 16) T | n-Octacosane (C28) | 16.752 | 7090853 | 50.146 ug/ml |
| 17) T | n-Tricontane (C30) | 17.638 | 7057449 | 49.792 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.468 | 6727381 | 49.693 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.251 | 5796180 | 49.607 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.987 | 5004110 | 50.366 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.710 | 4618407 | 49.814 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.592 | 4672813 | 49.433 ug/ml |

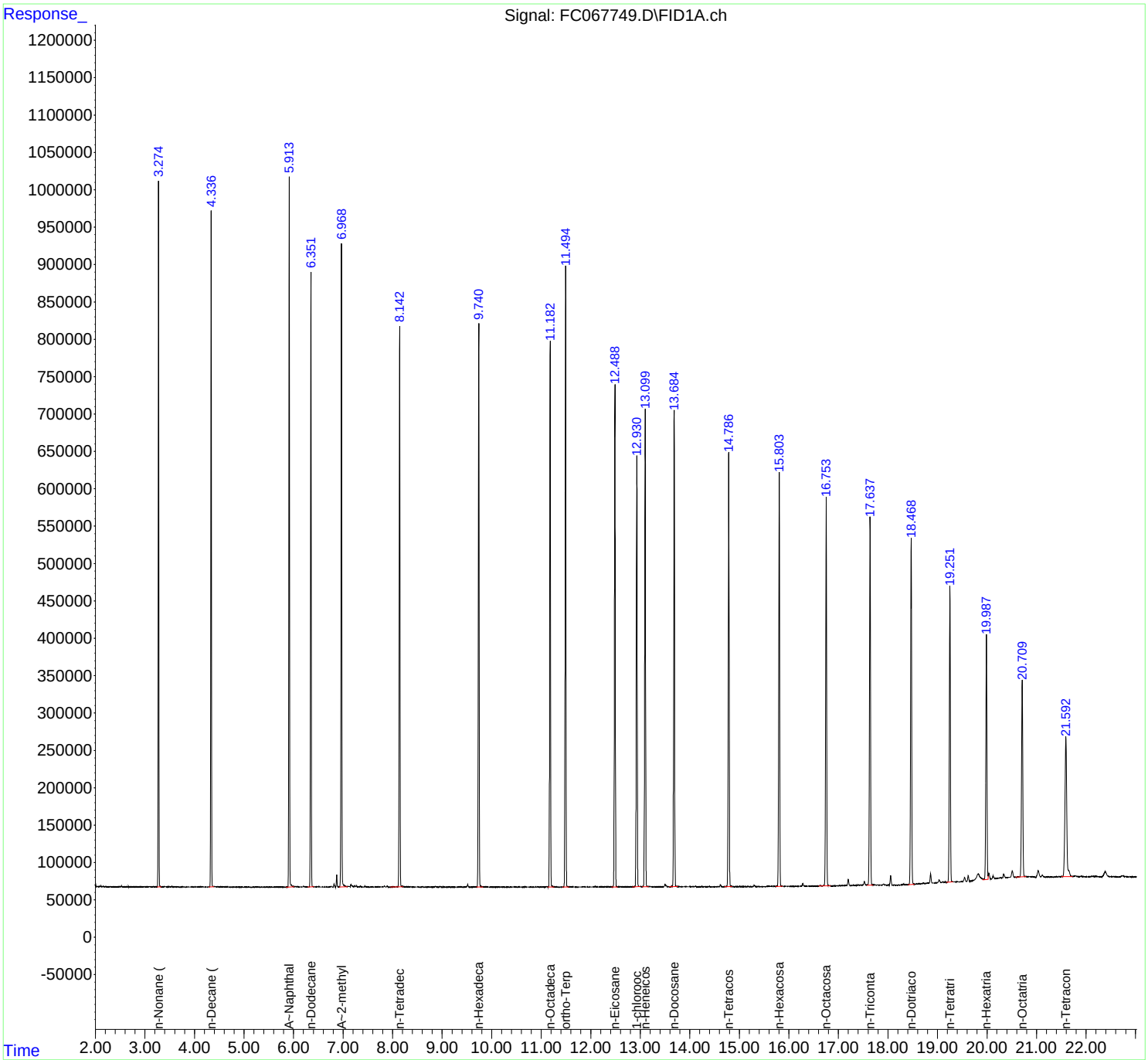
(f)=RT Delta > 1/2 Window (m)=manual int.

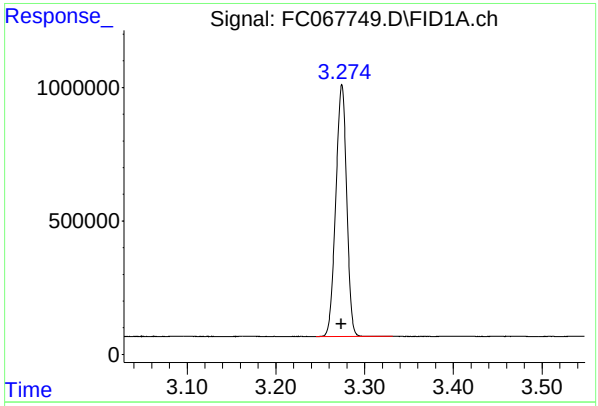
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067749.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:15
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 14 12:33:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

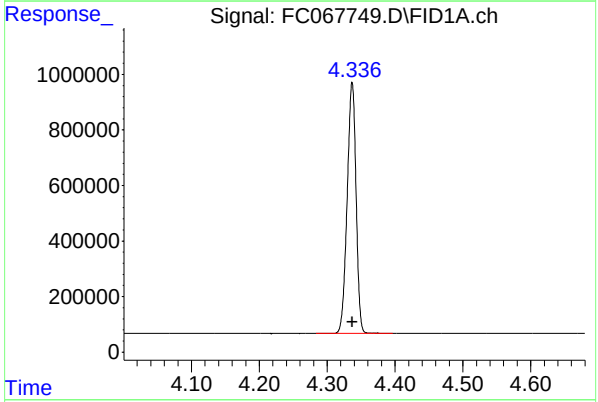





#1 n-Nonane (C9)

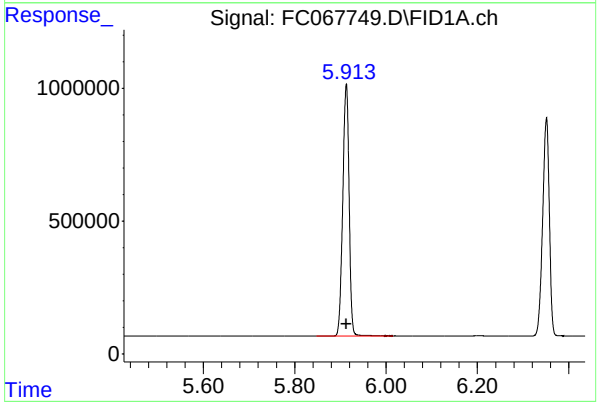
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 8066160
Conc: 50.74 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2



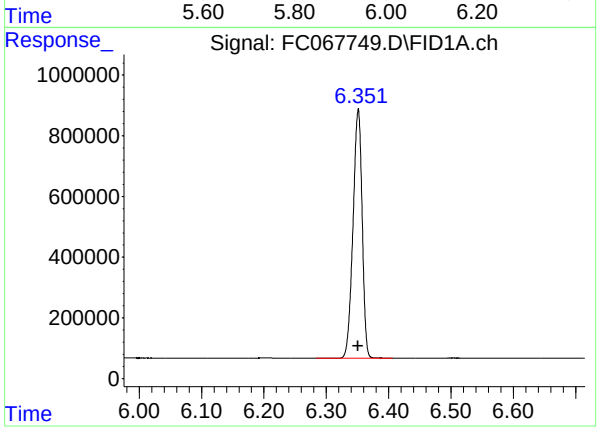

#2 n-Decane (C10)

R.T.: 4.337 min
Delta R.T.: 0.000 min
Response: 8240656
Conc: 50.81 ug/ml



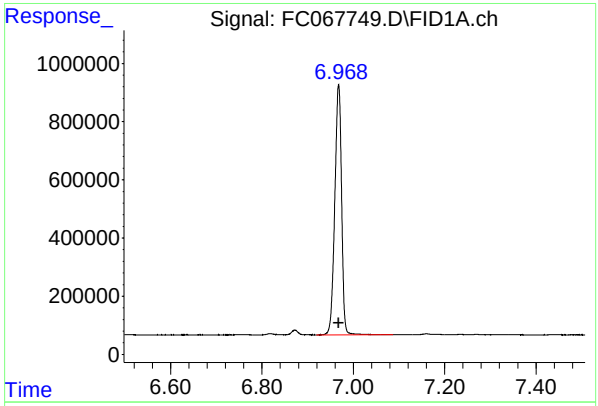

#3 A~Naphthalene (C11.7)

R.T.: 5.913 min
Delta R.T.: 0.000 min
Response: 9139963
Conc: 50.88 ug/ml




#4 n-Dodecane (C12)

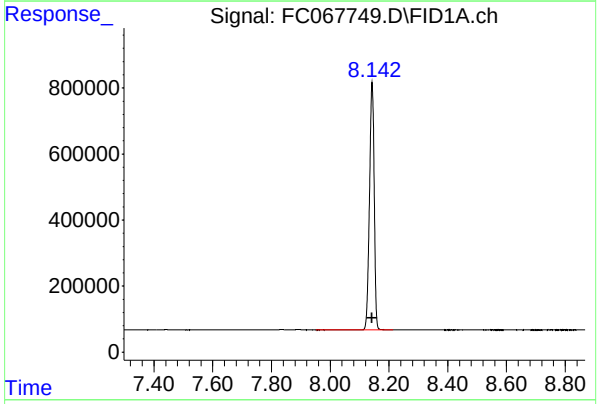
R.T.: 6.351 min
Delta R.T.: 0.000 min
Response: 8359779
Conc: 50.78 ug/ml




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

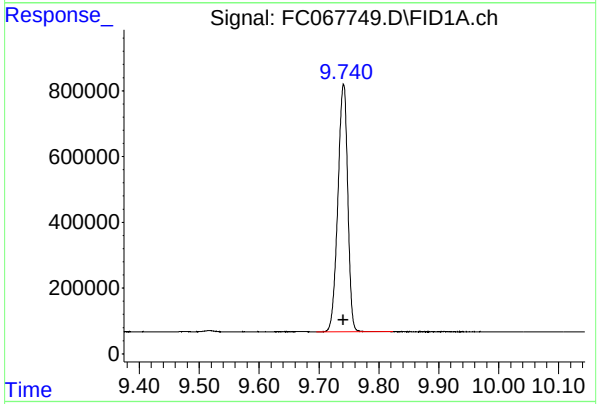
R.T.: 6.968 min
Delta R.T.: 0.000 min
Response: 8894913
Conc: 50.83 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2



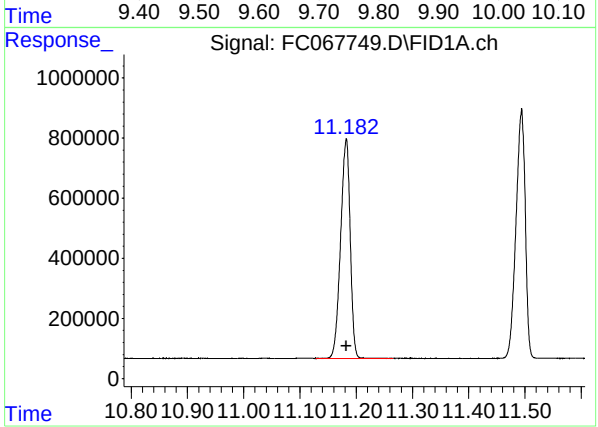

#6 n-Tetradecane (C14)

R.T.: 8.143 min
Delta R.T.: 0.000 min
Response: 8337977
Conc: 50.88 ug/ml



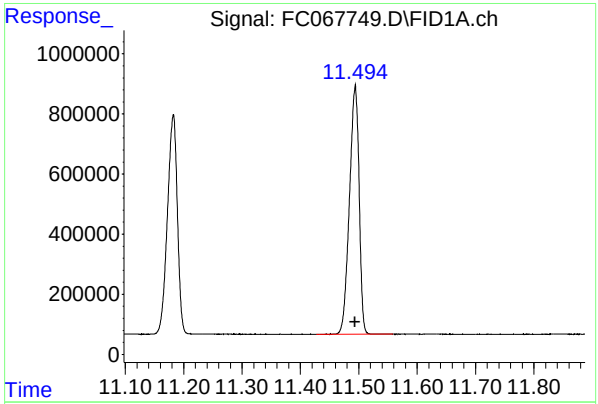

#7 n-Hexadecane (C16)

R.T.: 9.741 min
Delta R.T.: 0.000 min
Response: 8613564
Conc: 50.93 ug/ml




#8 n-Octadecane (C18)

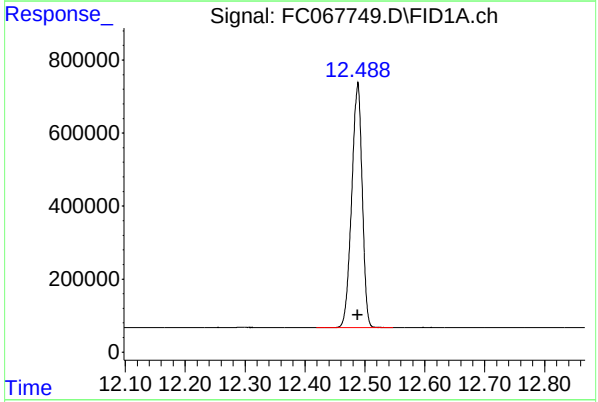
R.T.: 11.182 min
Delta R.T.: 0.000 min
Response: 8636330
Conc: 50.78 ug/ml




#9 ortho-Terphenyl (SURR)

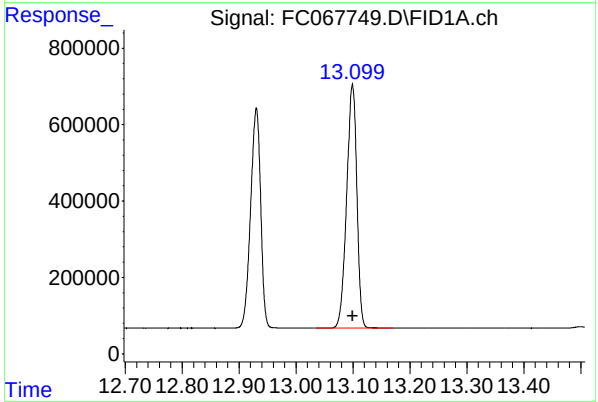
R.T.: 11.494 min
Delta R.T.: 0.000 min
Response: 9494610
Conc: 50.68 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2



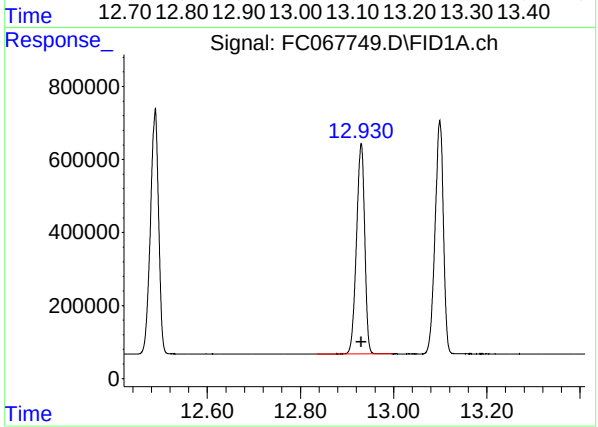

#10 n-Eicosane (C20)

R.T.: 12.488 min
Delta R.T.: 0.000 min
Response: 8156976
Conc: 50.64 ug/ml



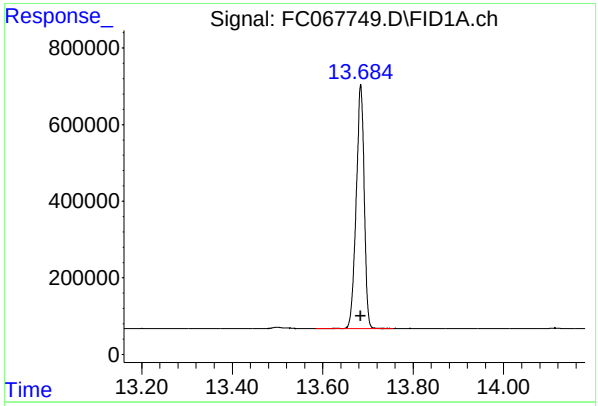

#11 n-Heneicosane (C21)

R.T.: 13.099 min
Delta R.T.: 0.000 min
Response: 7940079
Conc: 50.56 ug/ml




#12 1-chlorooctadecane (SURR)

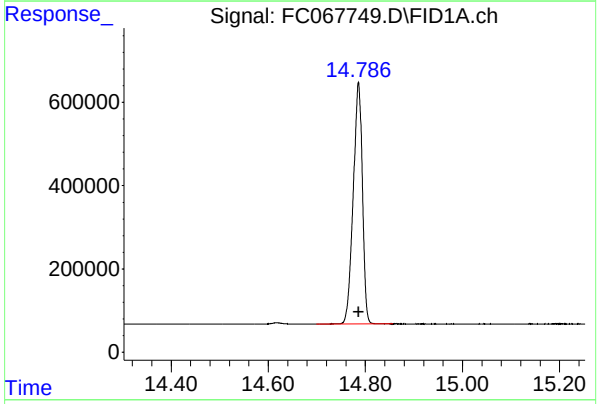
R.T.: 12.930 min
Delta R.T.: 0.000 min
Response: 7061712
Conc: 50.61 ug/ml




#13 n-Docosane (C22)

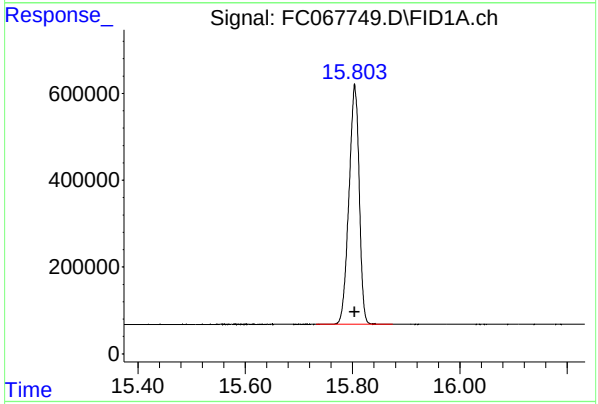
R.T.: 13.684 min
Delta R.T.: 0.000 min
Response: 7804830
Conc: 50.45 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2



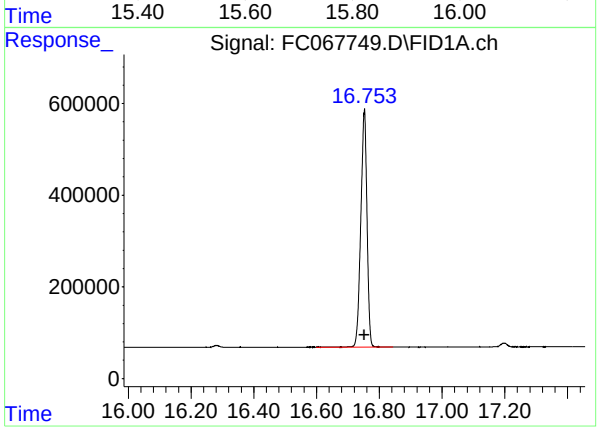

#14 n-Tetracosane (C24)

R.T.: 14.786 min
Delta R.T.: 0.000 min
Response: 7604012
Conc: 50.36 ug/ml



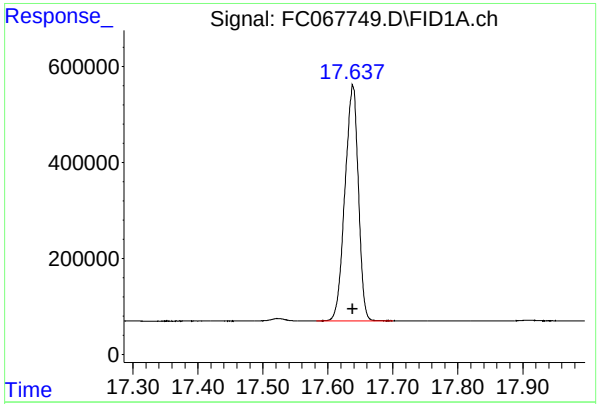

#15 n-Hexacosane (C26)

R.T.: 15.804 min
Delta R.T.: 0.000 min
Response: 7328788
Conc: 50.27 ug/ml




#16 n-Octacosane (C28)

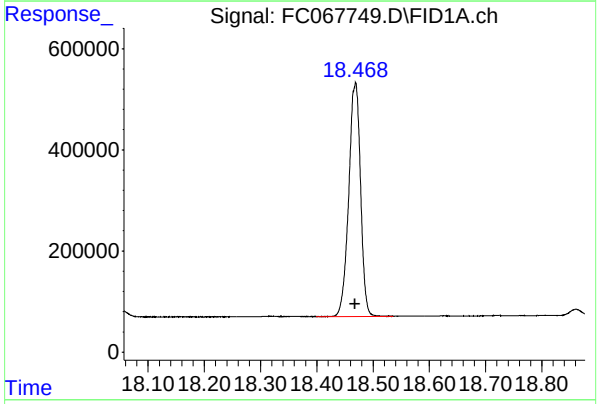
R.T.: 16.752 min
Delta R.T.: 0.000 min
Response: 7090853
Conc: 50.15 ug/ml




#17 n-Tricontane (C30)

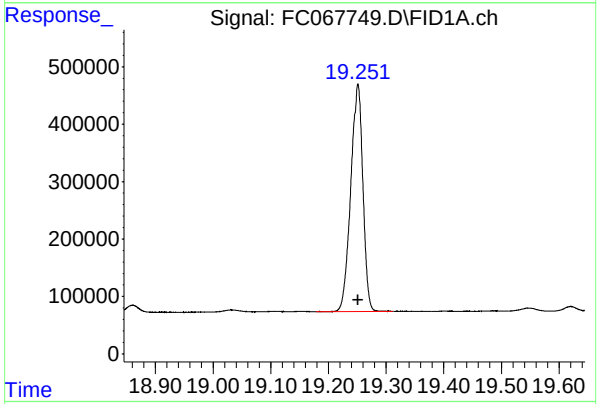
R.T.: 17.638 min
Delta R.T.: 0.000 min
Response: 7057449
Conc: 49.79 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2



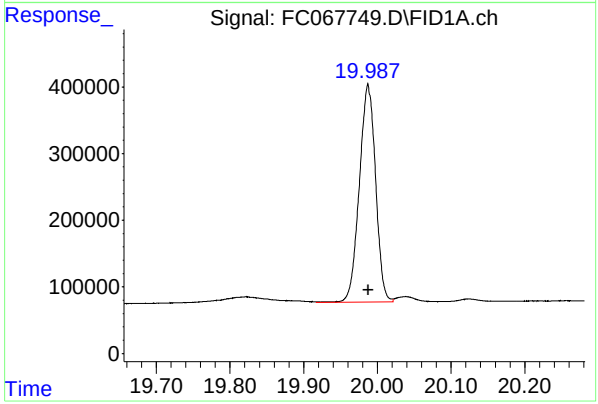

#18 n-Dotriacontane (C32)

R.T.: 18.468 min
Delta R.T.: 0.000 min
Response: 6727381
Conc: 49.69 ug/ml



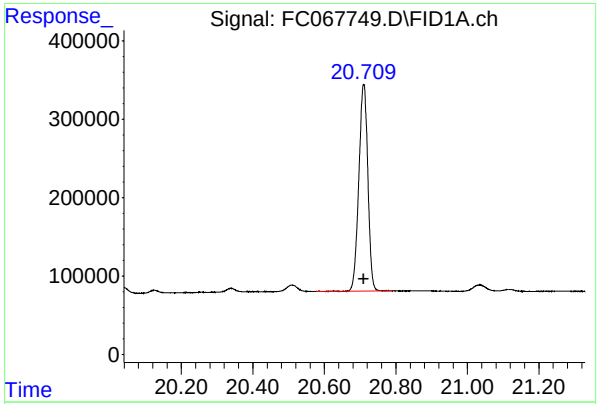

#19 n-Tetratriacontane (C34)

R.T.: 19.251 min
Delta R.T.: 0.000 min
Response: 5796180
Conc: 49.61 ug/ml




#20 n-Hexatriacontane (C36)

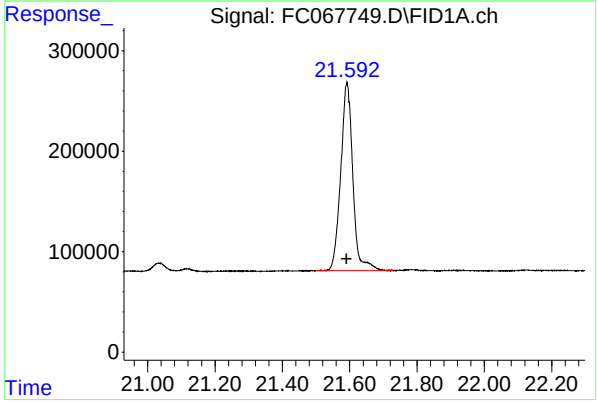
R.T.: 19.987 min
Delta R.T.: 0.000 min
Response: 5004110
Conc: 50.37 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 20.710 min
Delta R.T.: 0.000 min
Response: 4618407
Conc: 49.81 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2




#22 n-Tetracontane (C40)

R.T.: 21.592 min
Delta R.T.: 0.000 min
Response: 4672813
Conc: 49.43 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067749.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:15
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.274 | 3.245 | 3.332 | BB | 942017 | 8066160 | 84.96% | 4.899% |
| 2 | 4.337 | 4.284 | 4.397 | BB | 906477 | 8240656 | 86.79% | 5.005% |
| 3 | 5.913 | 5.847 | 6.015 | BB | 954751 | 9139963 | 96.26% | 5.551% |
| 4 | 6.351 | 6.284 | 6.407 | BB | 826267 | 8359779 | 88.05% | 5.077% |
| 5 | 6.968 | 6.919 | 7.087 | BV | 862389 | 8894913 | 93.68% | 5.402% |
| 6 | 8.143 | 7.952 | 8.214 | BB | 747890 | 8337977 | 87.82% | 5.064% |
| 7 | 9.741 | 9.695 | 9.824 | BB | 752166 | 8613564 | 90.72% | 5.232% |
| 8 | 11.182 | 11.129 | 11.265 | BB | 729025 | 8636330 | 90.96% | 5.245% |
| 9 | 11.494 | 11.427 | 11.559 | BB | 822061 | 9494610 | 100.00% | 5.767% |
| 10 | 12.488 | 12.419 | 12.547 | BB | 675029 | 8156976 | 85.91% | 4.954% |
| 11 | 12.930 | 12.834 | 12.999 | BB | 577252 | 7061712 | 74.38% | 4.289% |
| 12 | 13.099 | 13.035 | 13.170 | BB | 635946 | 7940079 | 83.63% | 4.822% |
| 13 | 13.684 | 13.585 | 13.755 | BB | 635229 | 7804830 | 82.20% | 4.740% |
| 14 | 14.786 | 14.699 | 14.857 | BB | 581408 | 7604012 | 80.09% | 4.618% |
| 15 | 15.804 | 15.732 | 15.875 | BB | 553132 | 7328788 | 77.19% | 4.451% |
| 16 | 16.752 | 16.599 | 16.844 | BB | 514869 | 7090853 | 74.68% | 4.307% |
| 17 | 17.638 | 17.582 | 17.700 | BB | 491920 | 7057449 | 74.33% | 4.286% |
| 18 | 18.468 | 18.399 | 18.535 | BB | 461341 | 6727381 | 70.85% | 4.086% |
| 19 | 19.251 | 19.179 | 19.312 | BB | 397522 | 5796180 | 61.05% | 3.520% |
| 20 | 19.987 | 19.917 | 20.021 | VV | 325943 | 5004110 | 52.70% | 3.039% |
| 21 | 20.710 | 20.577 | 20.792 | BB | 263622 | 4618407 | 48.64% | 2.805% |
| 22 | 21.592 | 21.500 | 21.729 | BB | 187315 | 4672813 | 49.22% | 2.838% |

Sum of corrected areas: 164647542

Aliphatic EPH 111424.M Fri Nov 15 03:29:21 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067750.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:51
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 14 12:29:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) | S ortho-Terphenyl (SURR) | 11.489 | 3895981 | 20.000 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.00% |
| 12) | S 1-chlorooctadecane (S... | 12.927 | 2921225 | 20.000 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.00% |
| | Target Compounds | | | |
| 1) | T n-Nonane (C9) | 3.273 | 3273618 | 20.000 ug/ml |
| 2) | T n-Decane (C10) | 4.334 | 3333913 | 20.000 ug/ml |
| 3) | T A~Naphthalene (C11.7) | 5.910 | 3680682 | 20.000 ug/ml |
| 4) | T n-Dodecane (C12) | 6.349 | 3384863 | 20.000 ug/ml |
| 5) | T A~2-methylnaphthalene... | 6.965 | 3573153 | 20.000 ug/ml |
| 6) | T n-Tetradecane (C14) | 8.140 | 3361591 | 20.000 ug/ml |
| 7) | T n-Hexadecane (C16) | 9.738 | 3479695 | 20.000 ug/ml |
| 8) | T n-Octadecane (C18) | 11.178 | 3542342 | 20.000 ug/ml |
| 10) | T n-Eicosane (C20) | 12.484 | 3377516 | 20.000 ug/ml |
| 11) | T n-Heneicosane (C21) | 13.095 | 3299529 | 20.000 ug/ml |
| 13) | T n-Docosane (C22) | 13.681 | 3258558 | 20.000 ug/ml |
| 14) | T n-Tetracosane (C24) | 14.781 | 3177702 | 20.000 ug/ml |
| 15) | T n-Hexacosane (C26) | 15.801 | 3061261 | 20.000 ug/ml |
| 16) | T n-Octacosane (C28) | 16.748 | 2988500 | 20.000 ug/ml |
| 17) | T n-Tricontane (C30) | 17.635 | 3038323 | 20.000 ug/ml |
| 18) | T n-Dotriacontane (C32) | 18.465 | 2930784 | 20.000 ug/ml |
| 19) | T n-Tetratriacontane (C34) | 19.247 | 2517007 | 20.000 ug/ml |
| 20) | T n-Hexatriacontane (C36) | 19.984 | 2080234 | 20.000 ug/ml |
| 21) | T n-Octatriacontane (C38) | 20.706 | 1956058 | 20.000 ug/ml |
| 22) | T n-Tetracontane (C40) | 21.587 | 2101655 | 20.000 ug/ml |

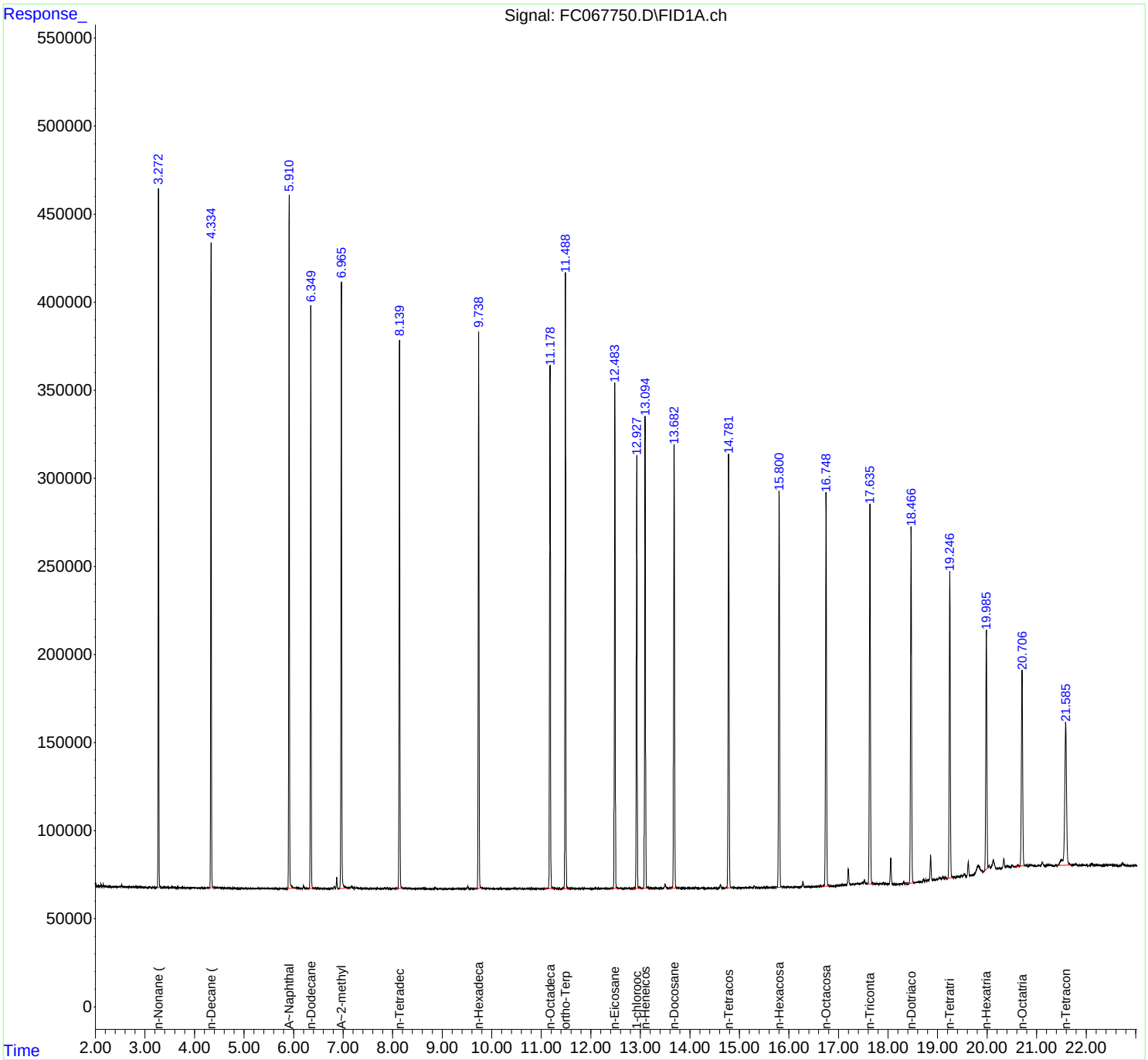
(f)=RT Delta > 1/2 Window (m)=manual int.

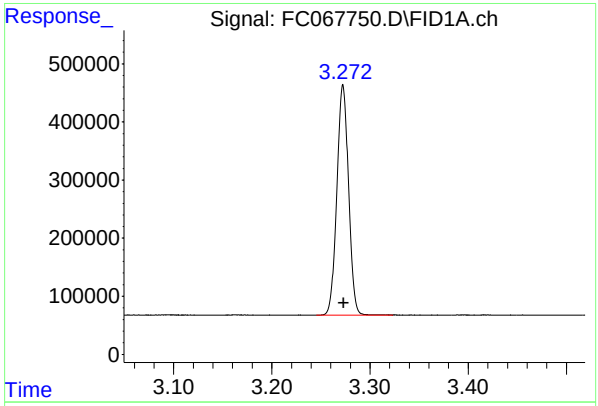
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067750.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:51
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 14 12:29:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

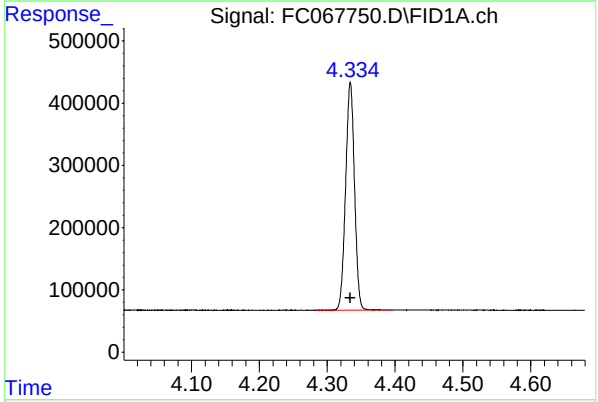





#1 n-Nonane (C9)

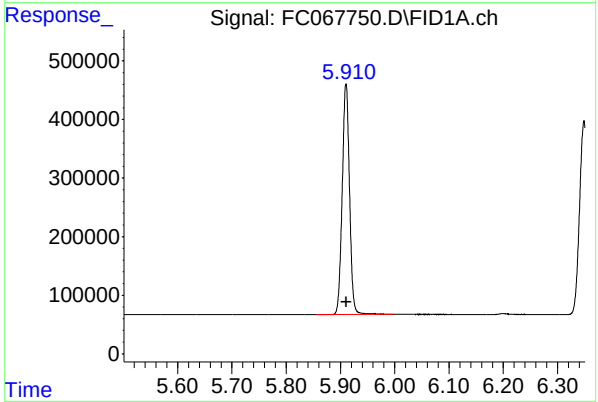
R.T.: 3.273 min
Delta R.T.: 0.000 min
Response: 3273618
Conc: 20.00 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3



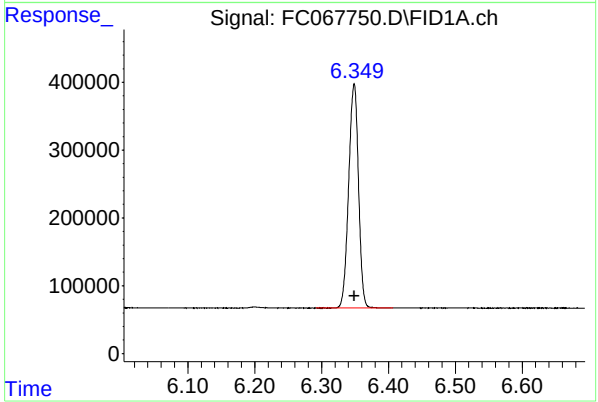

#2 n-Decane (C10)

R.T.: 4.334 min
Delta R.T.: 0.000 min
Response: 3333913
Conc: 20.00 ug/ml



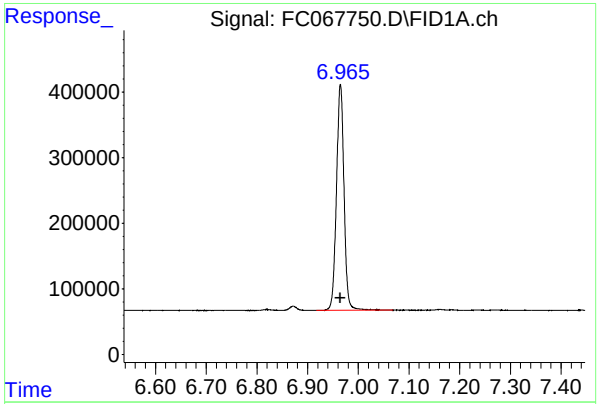

#3 A~Naphthalene (C11.7)

R.T.: 5.910 min
Delta R.T.: 0.000 min
Response: 3680682
Conc: 20.00 ug/ml




#4 n-Dodecane (C12)

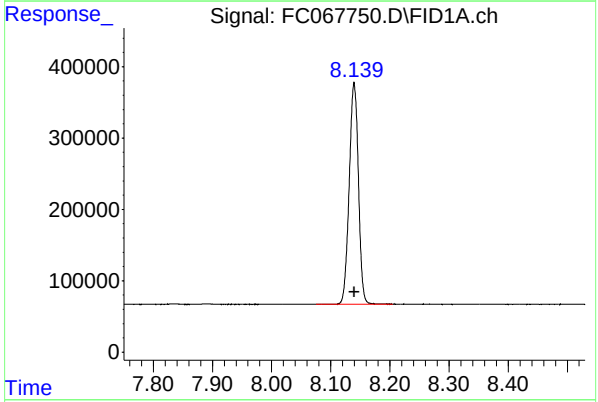
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 3384863
Conc: 20.00 ug/ml




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

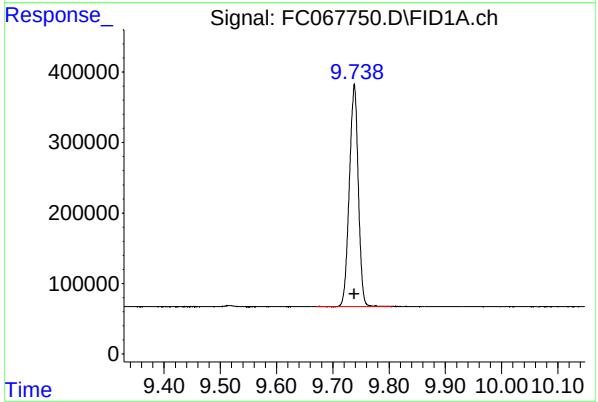
R.T.: 6.965 min
Delta R.T.: 0.000 min
Response: 3573153
Conc: 20.00 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3



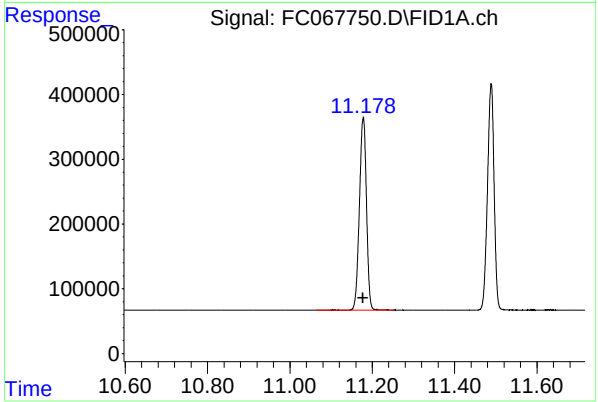

#6 n-Tetradecane (C14)

R.T.: 8.140 min
Delta R.T.: 0.000 min
Response: 3361591
Conc: 20.00 ug/ml



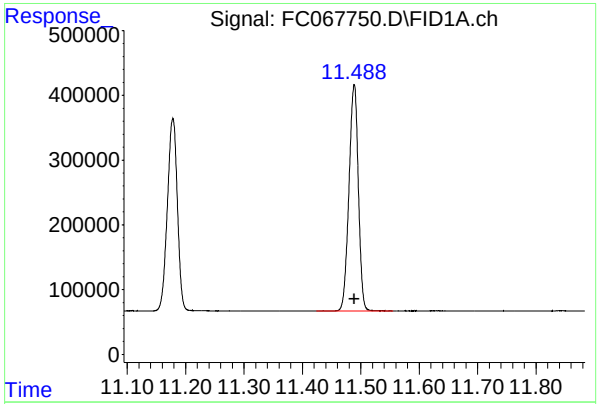

#7 n-Hexadecane (C16)

R.T.: 9.738 min
Delta R.T.: 0.000 min
Response: 3479695
Conc: 20.00 ug/ml




#8 n-Octadecane (C18)

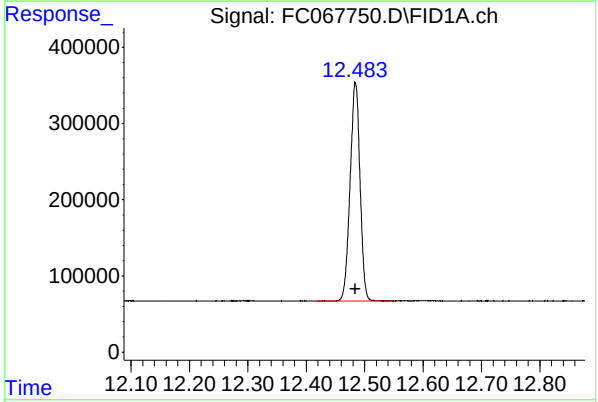
R.T.: 11.178 min
Delta R.T.: 0.000 min
Response: 3542342
Conc: 20.00 ug/ml




#9 ortho-Terphenyl (SURR)

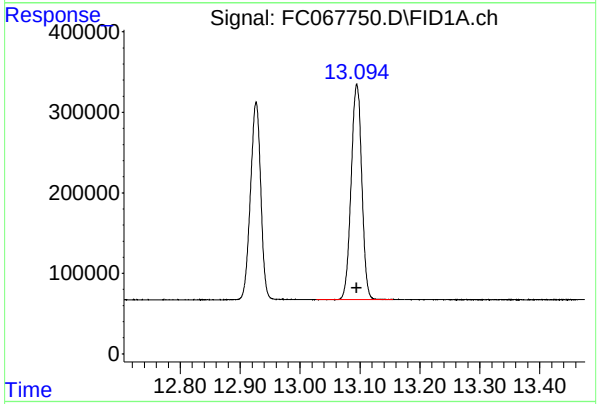
R.T.: 11.489 min
Delta R.T.: 0.000 min
Response: 3895981
Conc: 20.00 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3



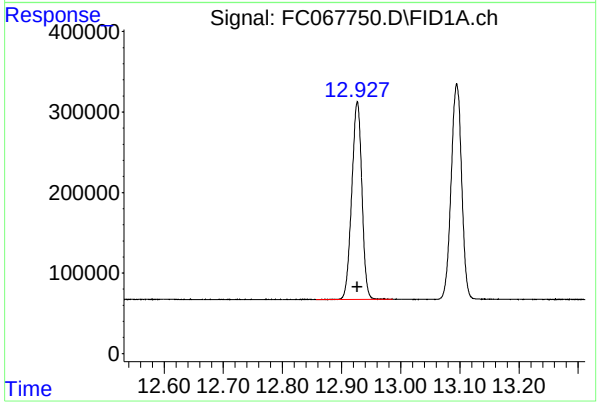

#10 n-Eicosane (C20)

R.T.: 12.484 min
Delta R.T.: 0.000 min
Response: 3377516
Conc: 20.00 ug/ml



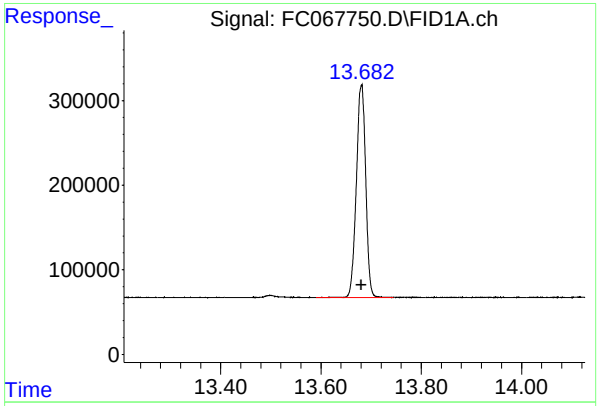

#11 n-Heneicosane (C21)

R.T.: 13.095 min
Delta R.T.: 0.000 min
Response: 3299529
Conc: 20.00 ug/ml




#12 1-chlorooctadecane (SURR)

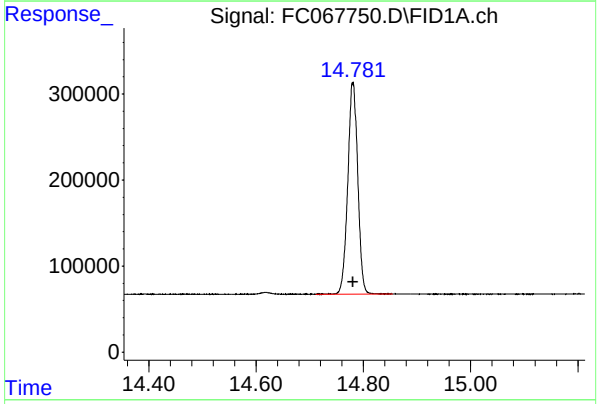
R.T.: 12.927 min
Delta R.T.: 0.000 min
Response: 2921225
Conc: 20.00 ug/ml




#13 n-Docosane (C22)

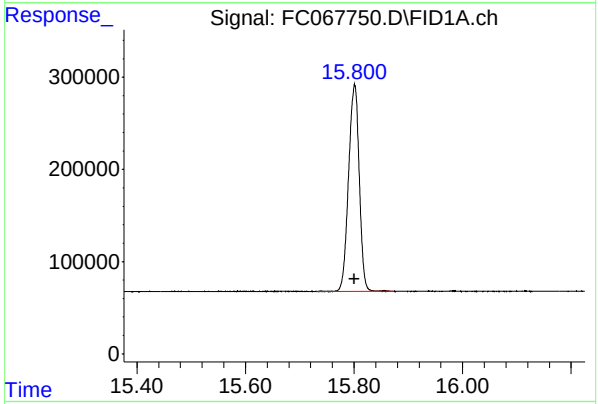
R.T.: 13.681 min
Delta R.T.: 0.000 min
Response: 3258558
Conc: 20.00 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3



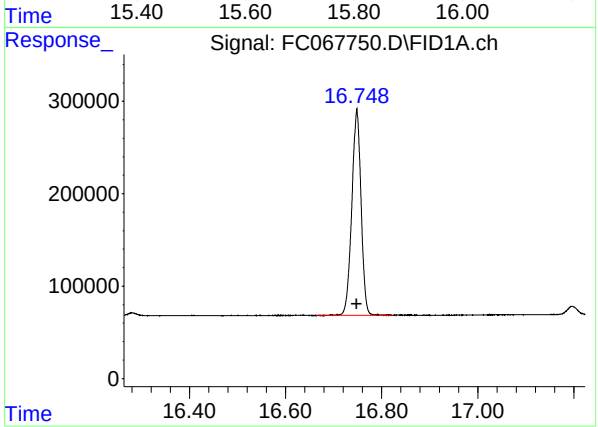

#14 n-Tetracosane (C24)

R.T.: 14.781 min
Delta R.T.: 0.000 min
Response: 3177702
Conc: 20.00 ug/ml



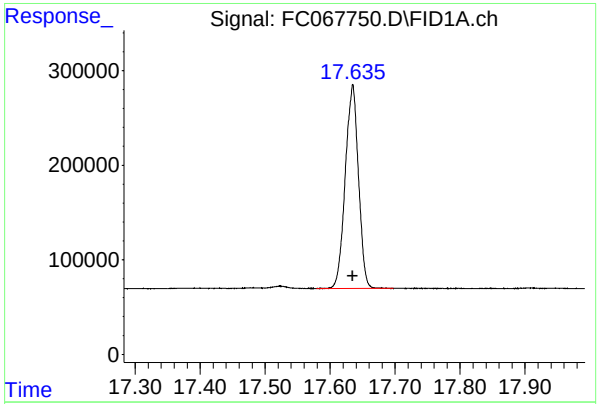

#15 n-Hexacosane (C26)

R.T.: 15.801 min
Delta R.T.: 0.000 min
Response: 3061261
Conc: 20.00 ug/ml




#16 n-Octacosane (C28)

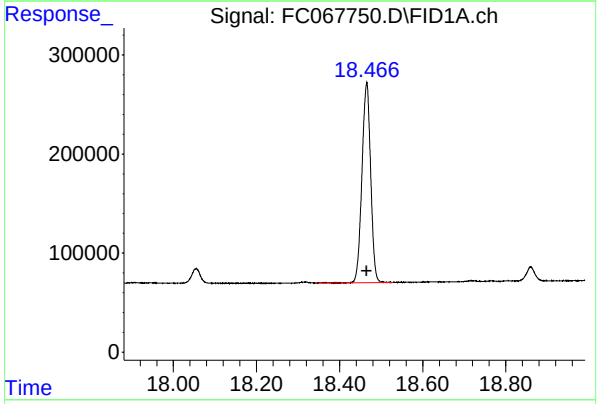
R.T.: 16.748 min
Delta R.T.: 0.000 min
Response: 2988500
Conc: 20.00 ug/ml




#17 n-Tricontane (C30)

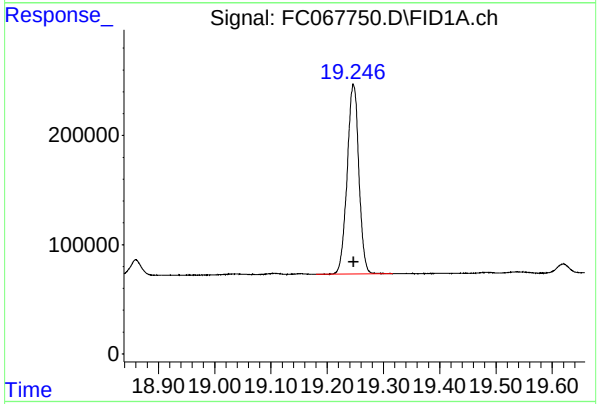
R.T.: 17.635 min
Delta R.T.: 0.000 min
Response: 3038323
Conc: 20.00 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3



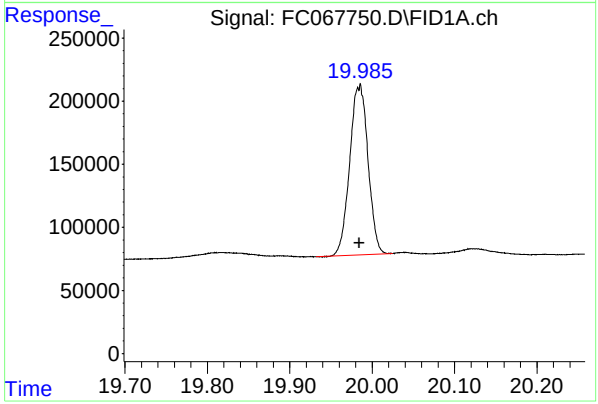

#18 n-Dotriacontane (C32)

R.T.: 18.465 min
Delta R.T.: 0.000 min
Response: 2930784
Conc: 20.00 ug/ml



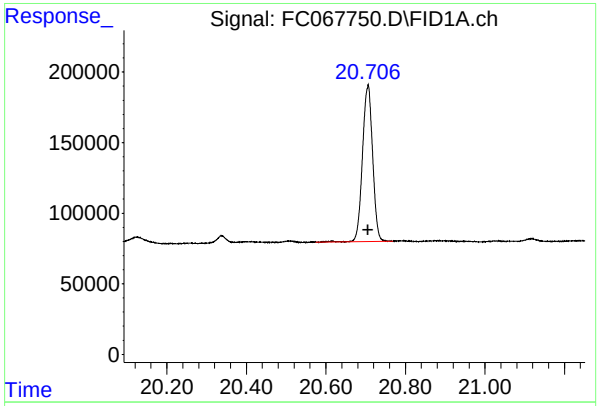

#19 n-Tetratriacontane (C34)

R.T.: 19.247 min
Delta R.T.: 0.000 min
Response: 2517007
Conc: 20.00 ug/ml




#20 n-Hexatriacontane (C36)

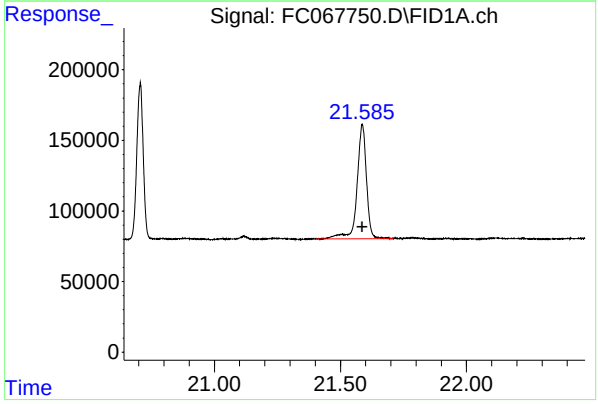
R.T.: 19.984 min
Delta R.T.: 0.000 min
Response: 2080234
Conc: 20.00 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 20.706 min
Delta R.T.: 0.000 min
Response: 1956058
Conc: 20.00 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3




#22 n-Tetracontane (C40)

R.T.: 21.587 min
Delta R.T.: 0.000 min
Response: 2101655
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067750.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:51
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.273 | 3.245 | 3.323 | BB | 395062 | 3273618 | 84.03% | 4.798% |
| 2 | 4.334 | 4.283 | 4.397 | BB | 366166 | 3333913 | 85.57% | 4.886% |
| 3 | 5.910 | 5.855 | 5.997 | BB | 394058 | 3680682 | 94.47% | 5.394% |
| 4 | 6.349 | 6.292 | 6.407 | BB | 330915 | 3384863 | 86.88% | 4.961% |
| 5 | 6.965 | 6.917 | 7.068 | BB | 344646 | 3573153 | 91.71% | 5.237% |
| 6 | 8.140 | 8.075 | 8.205 | BB | 309895 | 3361591 | 86.28% | 4.927% |
| 7 | 9.738 | 9.670 | 9.807 | BB | 316926 | 3479695 | 89.31% | 5.100% |
| 8 | 11.178 | 11.063 | 11.250 | BB | 297212 | 3542342 | 90.92% | 5.191% |
| 9 | 11.489 | 11.423 | 11.555 | BB | 350190 | 3895981 | 100.00% | 5.710% |
| 10 | 12.484 | 12.417 | 12.548 | BB | 287428 | 3377516 | 86.69% | 4.950% |
| 11 | 12.927 | 12.857 | 12.987 | BB | 245590 | 2921225 | 74.98% | 4.281% |
| 12 | 13.095 | 13.027 | 13.155 | BB | 267596 | 3299529 | 84.69% | 4.836% |
| 13 | 13.681 | 13.590 | 13.743 | BB | 250378 | 3258558 | 83.64% | 4.776% |
| 14 | 14.781 | 14.712 | 14.855 | BB | 245027 | 3177702 | 81.56% | 4.657% |
| 15 | 15.801 | 15.730 | 15.872 | BB | 223856 | 3061261 | 78.57% | 4.486% |
| 16 | 16.748 | 16.663 | 16.823 | BB | 222546 | 2988500 | 76.71% | 4.380% |
| 17 | 17.635 | 17.578 | 17.697 | BB | 217007 | 3038323 | 77.99% | 4.453% |
| 18 | 18.465 | 18.343 | 18.528 | VB | 201712 | 2930784 | 75.23% | 4.295% |
| 19 | 19.247 | 19.180 | 19.317 | BB | 173564 | 2517007 | 64.61% | 3.689% |
| 20 | 19.984 | 19.932 | 20.025 | BV | 133807 | 2080234 | 53.39% | 3.049% |
| 21 | 20.706 | 20.575 | 20.768 | BB | 109828 | 1956058 | 50.21% | 2.867% |
| 22 | 21.587 | 21.403 | 21.708 | BB | 80516 | 2101655 | 53.94% | 3.080% |
| | | | Sum of corrected areas: | | | 68234191 | | |

Aliphatic EPH 111424.M Fri Nov 15 03:29:46 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067751.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 12:27
Operator : YP/AJ
Sample : 10 PPM ALIHPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
10 PPM ALIHPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 14 13:15:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 13:15:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.487 | 2050947 | 10.694 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 21.39% |
| 12) S | 1-chlorooctadecane (S... | 12.925 | 1552495 | 10.822 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 21.64% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.272 | 1699554 | 10.510 ug/ml |
| 2) T | n-Decane (C10) | 4.334 | 1727323 | 10.479 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 5.910 | 1904344 | 10.445 ug/ml |
| 4) T | n-Dodecane (C12) | 6.348 | 1755770 | 10.490 ug/ml |
| 5) T | A~2-methylnaphthalene... | 6.964 | 1839874 | 10.380 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.139 | 1744653 | 10.478 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.737 | 1816587 | 10.546 ug/ml |
| 8) T | n-Octadecane (C18) | 11.176 | 1866614 | 10.714 ug/ml |
| 10) T | n-Eicosane (C20) | 12.483 | 1808575 | 10.894 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.094 | 1769034 | 10.920 ug/ml |
| 13) T | n-Docosane (C22) | 13.679 | 1749101 | 10.949 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.780 | 1707779 | 10.952 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.799 | 1641995 | 10.918 ug/ml |
| 16) T | n-Octacosane (C28) | 16.747 | 1593212 | 10.921 ug/ml |
| 17) T | n-Tricontane (C30) | 17.634 | 1615415 | 11.012 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.464 | 1566436 | 11.134 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.246 | 1350731 | 11.126 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.985 | 1081784 | 10.652 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.705 | 1043301 | 10.911 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.587 | 898236 | 9.622 ug/ml |

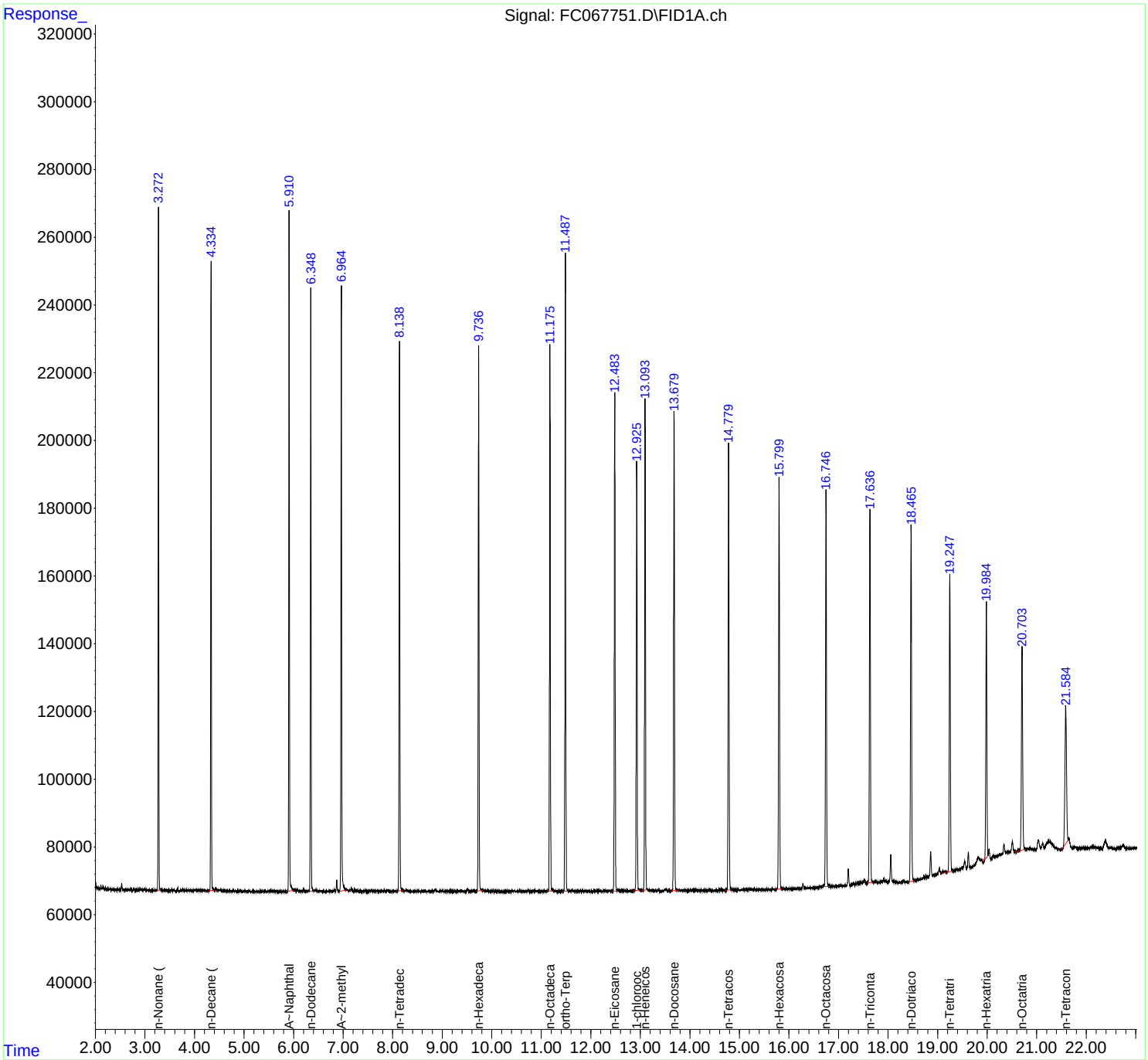
(f)=RT Delta > 1/2 Window (m)=manual int.

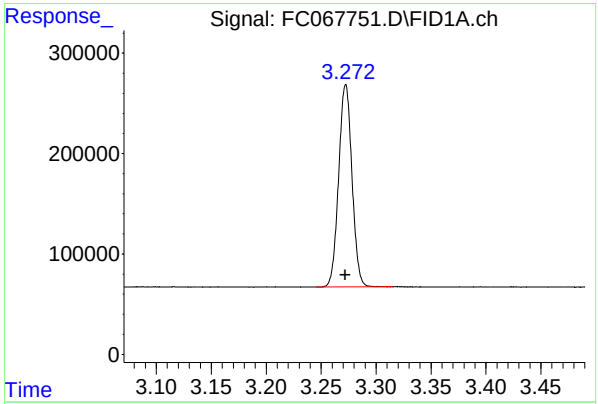
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067751.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 12:27
Operator : YP/AJ
Sample : 10 PPM ALIHPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
10 PPM ALIHPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 14 13:15:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 13:15:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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

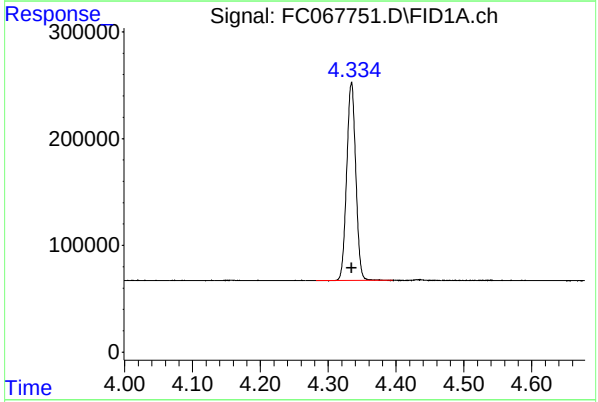





#1 n-Nonane (C9)

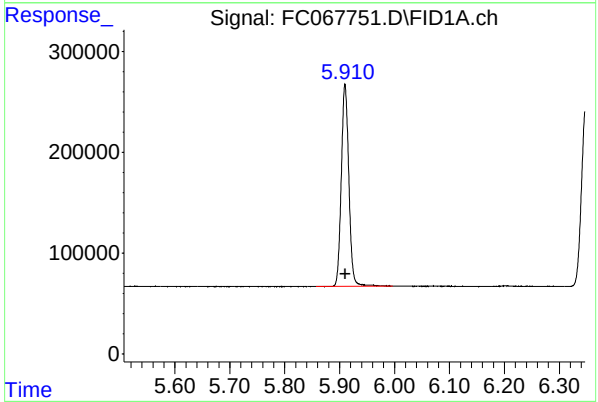
R.T.: 3.272 min
Delta R.T.: 0.000 min
Response: 1699554
Conc: 10.51 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
10 PPM ALIHPHATIC HC STD4



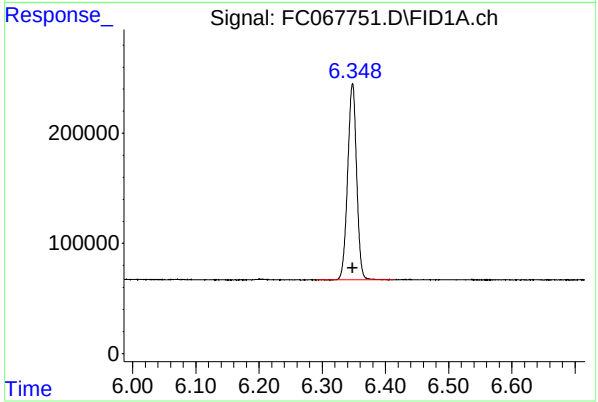

#2 n-Decane (C10)

R.T.: 4.334 min
Delta R.T.: 0.000 min
Response: 1727323
Conc: 10.48 ug/ml



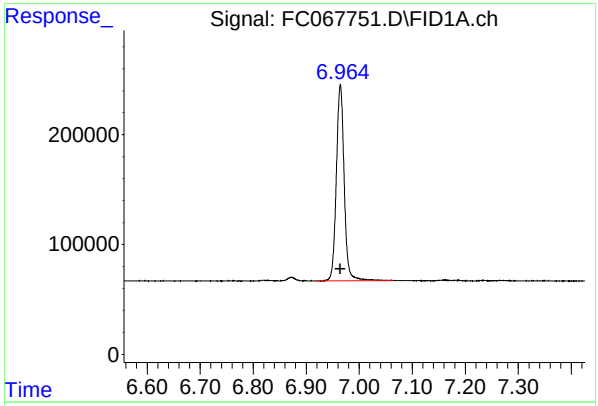

#3 A~Naphthalene (C11.7)

R.T.: 5.910 min
Delta R.T.: 0.000 min
Response: 1904344
Conc: 10.44 ug/ml




#4 n-Dodecane (C12)

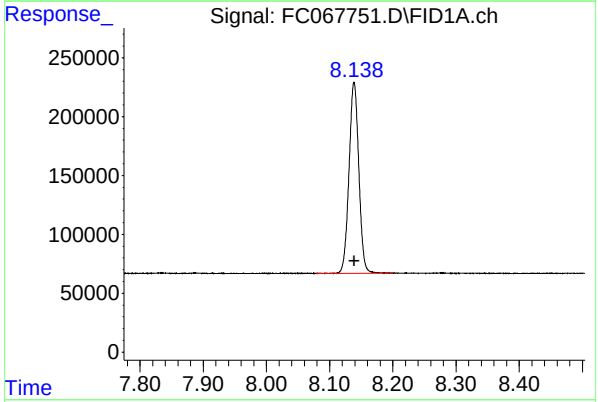
R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 1755770
Conc: 10.49 ug/ml




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

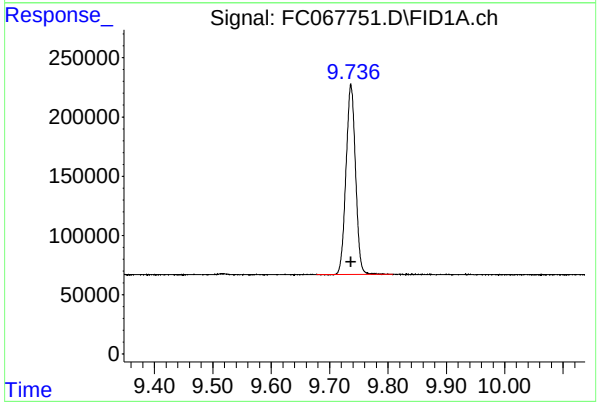
R.T.: 6.964 min
Delta R.T.: 0.000 min
Response: 1839874
Conc: 10.38 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
10 PPM ALIHPHATIC HC STD4



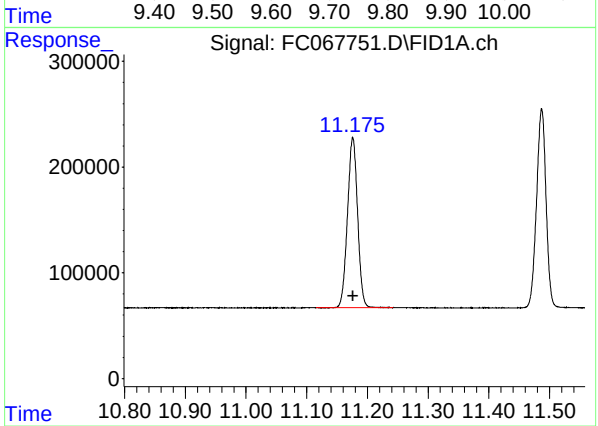

#6 n-Tetradecane (C14)

R.T.: 8.139 min
Delta R.T.: 0.000 min
Response: 1744653
Conc: 10.48 ug/ml



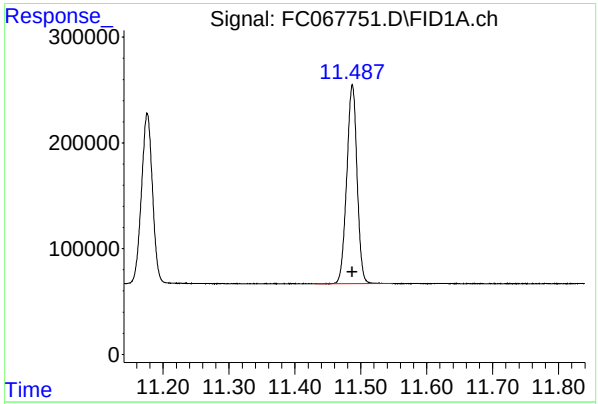

#7 n-Hexadecane (C16)

R.T.: 9.737 min
Delta R.T.: 0.000 min
Response: 1816587
Conc: 10.55 ug/ml




#8 n-Octadecane (C18)

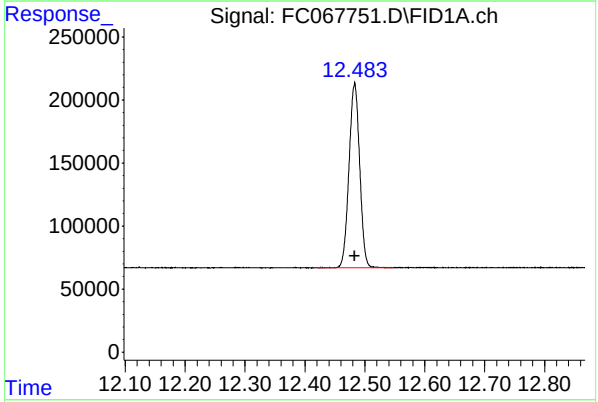
R.T.: 11.176 min
Delta R.T.: 0.000 min
Response: 1866614
Conc: 10.71 ug/ml




#9 ortho-Terphenyl (SURR)

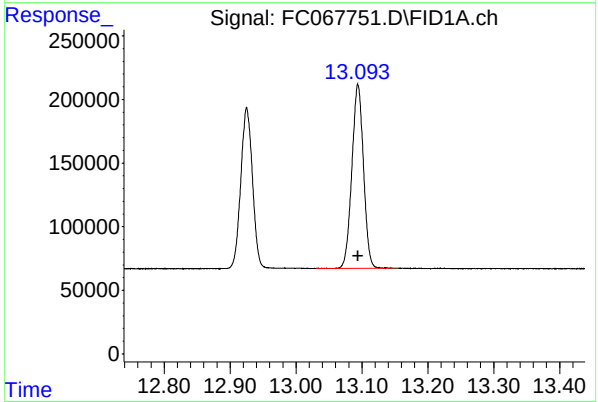
R.T.: 11.487 min
Delta R.T.: 0.000 min
Response: 2050947
Conc: 10.69 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
10 PPM ALIHPHATIC HC STD4



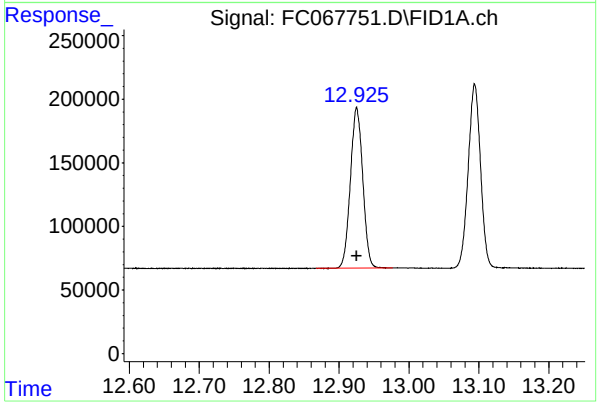

#10 n-Eicosane (C20)

R.T.: 12.483 min
Delta R.T.: 0.000 min
Response: 1808575
Conc: 10.89 ug/ml



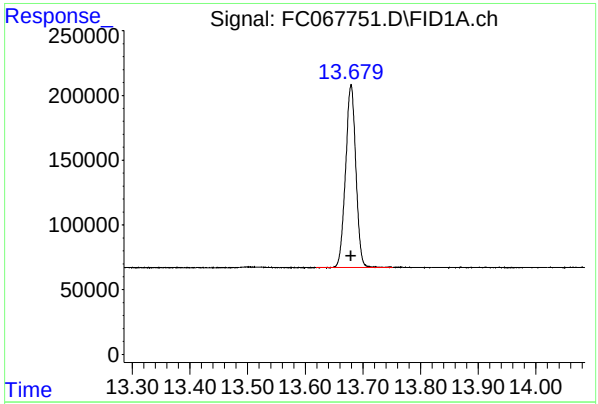

#11 n-Heneicosane (C21)

R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 1769034
Conc: 10.92 ug/ml




#12 1-chlorooctadecane (SURR)

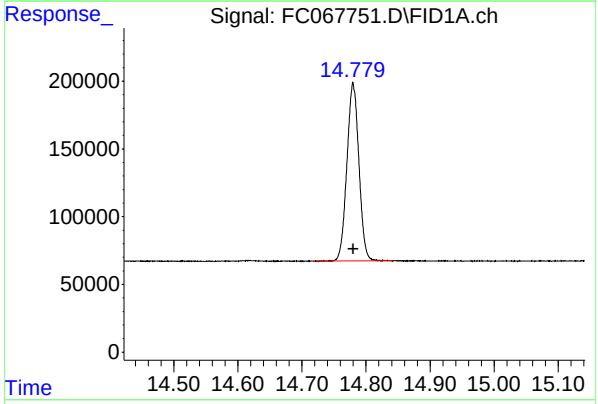
R.T.: 12.925 min
Delta R.T.: 0.000 min
Response: 1552495
Conc: 10.82 ug/ml




#13 n-Docosane (C22)

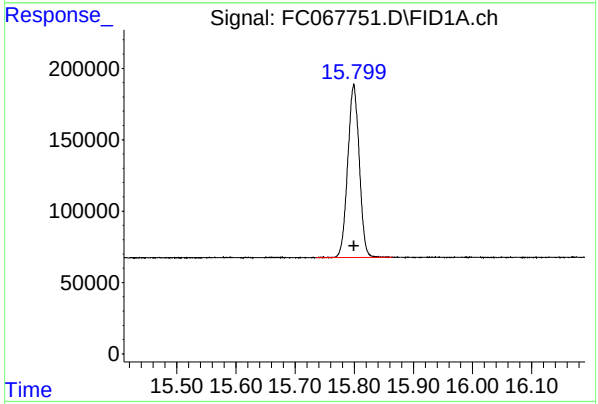
R.T.: 13.679 min
Delta R.T.: 0.000 min
Response: 1749101
Conc: 10.95 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
10 PPM ALIHPHATIC HC STD4



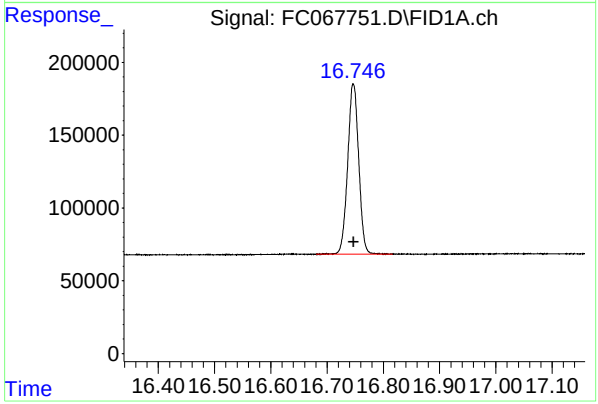

#14 n-Tetracosane (C24)

R.T.: 14.780 min
Delta R.T.: 0.000 min
Response: 1707779
Conc: 10.95 ug/ml



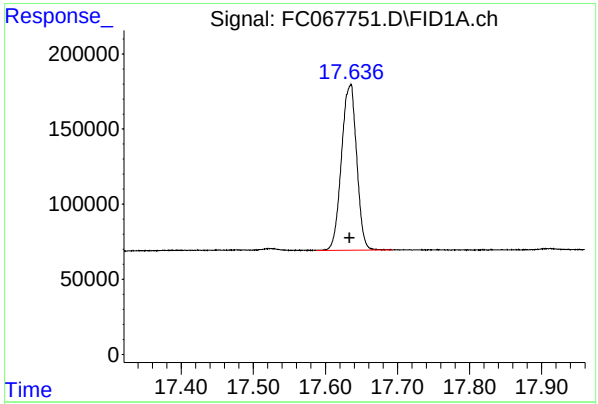

#15 n-Hexacosane (C26)

R.T.: 15.799 min
Delta R.T.: 0.000 min
Response: 1641995
Conc: 10.92 ug/ml




#16 n-Octacosane (C28)

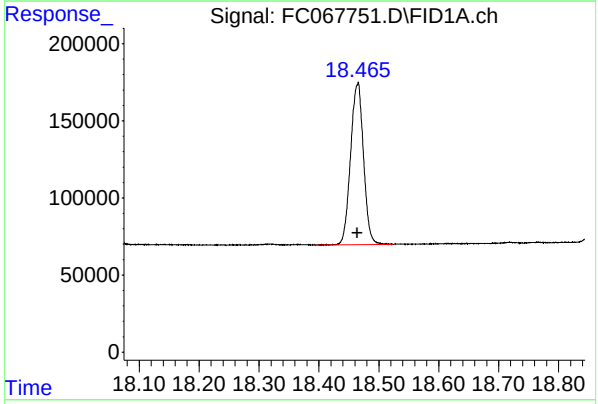
R.T.: 16.747 min
Delta R.T.: 0.000 min
Response: 1593212
Conc: 10.92 ug/ml




#17 n-Tricontane (C30)

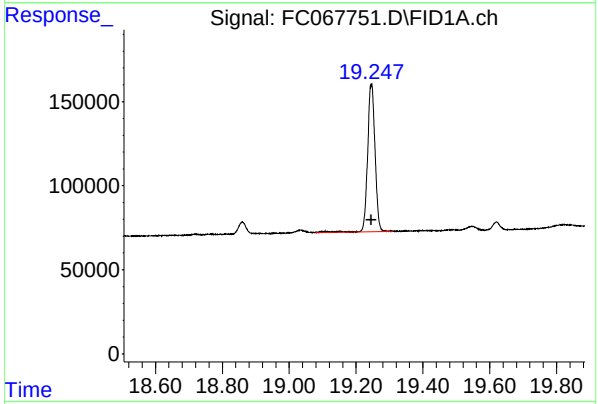
R.T.: 17.634 min
Delta R.T.: 0.000 min
Response: 1615415
Conc: 11.01 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
10 PPM ALIHPHATIC HC STD4



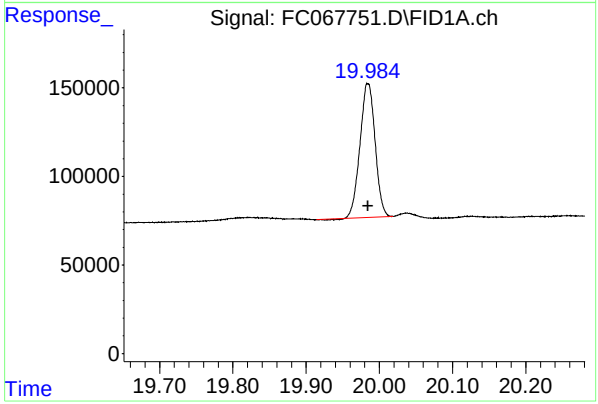

#18 n-Dotriacontane (C32)

R.T.: 18.464 min
Delta R.T.: 0.000 min
Response: 1566436
Conc: 11.13 ug/ml



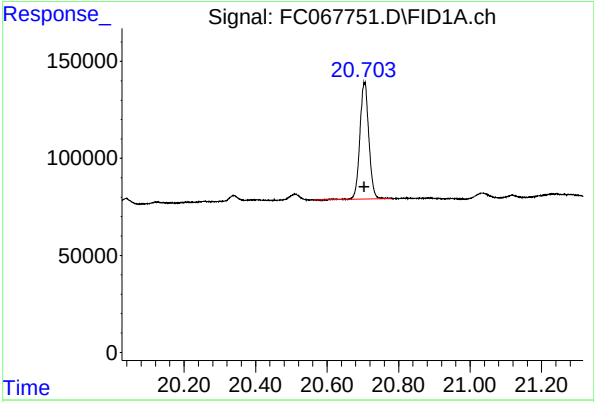

#19 n-Tetratriacontane (C34)

R.T.: 19.246 min
Delta R.T.: 0.000 min
Response: 1350731
Conc: 11.13 ug/ml




#20 n-Hexatriacontane (C36)

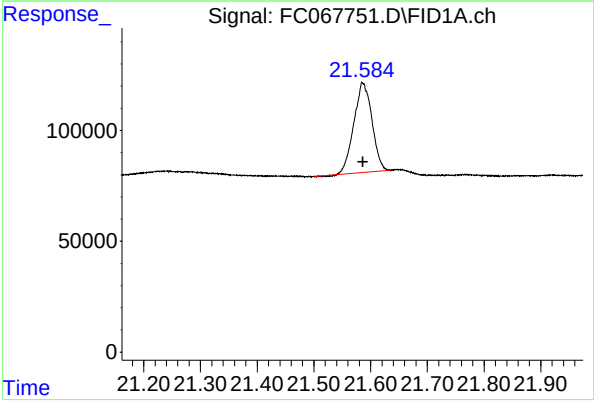
R.T.: 19.985 min
Delta R.T.: 0.000 min
Response: 1081784
Conc: 10.65 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 20.705 min
Delta R.T.: 0.000 min
Response: 1043301
Conc: 10.91 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
10 PPM ALIHPHATIC HC STD4




#22 n-Tetracontane (C40)

R.T.: 21.587 min
Delta R.T.: 0.000 min
Response: 898236
Conc: 9.62 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067751.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 12:27
Sample : 10 PPM ALIHPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.272 | 3.245 | 3.315 | BB | 201392 | 1699554 | 82.87% | 4.750% |
| 2 | 4.334 | 4.282 | 4.395 | BB | 184772 | 1727323 | 84.22% | 4.827% |
| 3 | 5.910 | 5.857 | 5.997 | BB | 200085 | 1904344 | 92.85% | 5.322% |
| 4 | 6.348 | 6.290 | 6.412 | BB | 179174 | 1755770 | 85.61% | 4.907% |
| 5 | 6.964 | 6.919 | 7.064 | BB | 178091 | 1839874 | 89.71% | 5.142% |
| 6 | 8.139 | 8.079 | 8.200 | BB | 162189 | 1744653 | 85.07% | 4.876% |
| 7 | 9.737 | 9.677 | 9.809 | BB | 160226 | 1816587 | 88.57% | 5.077% |
| 8 | 11.176 | 11.115 | 11.242 | BB | 161006 | 1866614 | 91.01% | 5.216% |
| 9 | 11.487 | 11.432 | 11.549 | BB | 188405 | 2050947 | 100.00% | 5.732% |
| 10 | 12.483 | 12.419 | 12.547 | BB | 147330 | 1808575 | 88.18% | 5.054% |
| 11 | 12.925 | 12.867 | 12.977 | BB | 126208 | 1552495 | 75.70% | 4.339% |
| 12 | 13.094 | 13.030 | 13.147 | BB | 144889 | 1769034 | 86.25% | 4.944% |
| 13 | 13.679 | 13.619 | 13.752 | BB | 140684 | 1749101 | 85.28% | 4.888% |
| 14 | 14.780 | 14.722 | 14.842 | BB | 130778 | 1707779 | 83.27% | 4.772% |
| 15 | 15.799 | 15.735 | 15.865 | BB | 120759 | 1641995 | 80.06% | 4.589% |
| 16 | 16.747 | 16.680 | 16.817 | BB | 116868 | 1593212 | 77.68% | 4.452% |
| 17 | 17.634 | 17.587 | 17.694 | BB | 109291 | 1615415 | 78.76% | 4.514% |
| 18 | 18.464 | 18.395 | 18.524 | BB | 103977 | 1566436 | 76.38% | 4.378% |
| 19 | 19.246 | 19.080 | 19.310 | BB | 87049 | 1350731 | 65.86% | 3.775% |
| 20 | 19.985 | 19.914 | 20.019 | BV | 75557 | 1081784 | 52.75% | 3.023% |
| 21 | 20.705 | 20.564 | 20.779 | BB | 59219 | 1043301 | 50.87% | 2.916% |
| 22 | 21.587 | 21.500 | 21.636 | BV | 39943 | 898236 | 43.80% | 2.510% |
| | | | Sum of corrected areas: | | | 35783760 | | |

Aliphatic EPH 111424.M Fri Nov 15 03:30:12 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067752.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:03
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 14:12:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:12:01 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.486 | 1011043 | 5.215 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 10.43% |
| 12) S | 1-chlorooctadecane (S... | 12.926 | 759794 | 5.234 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 10.47% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.272 | 843654 | 5.172 ug/ml |
| 2) T | n-Decane (C10) | 4.334 | 849229 | 5.121 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 5.911 | 932344 | 5.090 ug/ml |
| 4) T | n-Dodecane (C12) | 6.348 | 863286 | 5.126 ug/ml |
| 5) T | A~2-methylnaphthalene... | 6.965 | 888961 | 5.012 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.139 | 856517 | 5.114 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.737 | 887432 | 5.121 ug/ml |
| 8) T | n-Octadecane (C18) | 11.176 | 913982 | 5.195 ug/ml |
| 10) T | n-Eicosane (C20) | 12.482 | 889327 | 5.281 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.094 | 873353 | 5.308 ug/ml |
| 13) T | n-Docosane (C22) | 13.679 | 876194 | 5.380 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.780 | 890863 | 5.555 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.799 | 863791 | 5.578 ug/ml |
| 16) T | n-Octacosane (C28) | 16.747 | 857935 | 5.681 ug/ml |
| 17) T | n-Tricontane (C30) | 17.633 | 893915 | 5.838 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.465 | 878383 | 5.947 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.245 | 725252 | 5.750 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.986 | 583478 | 5.580 ug/mlm |
| 21) T | n-Octatriacontane (C38) | 20.705 | 529758 | 5.423 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.585 | 569616 | 5.844 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067752.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:03
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
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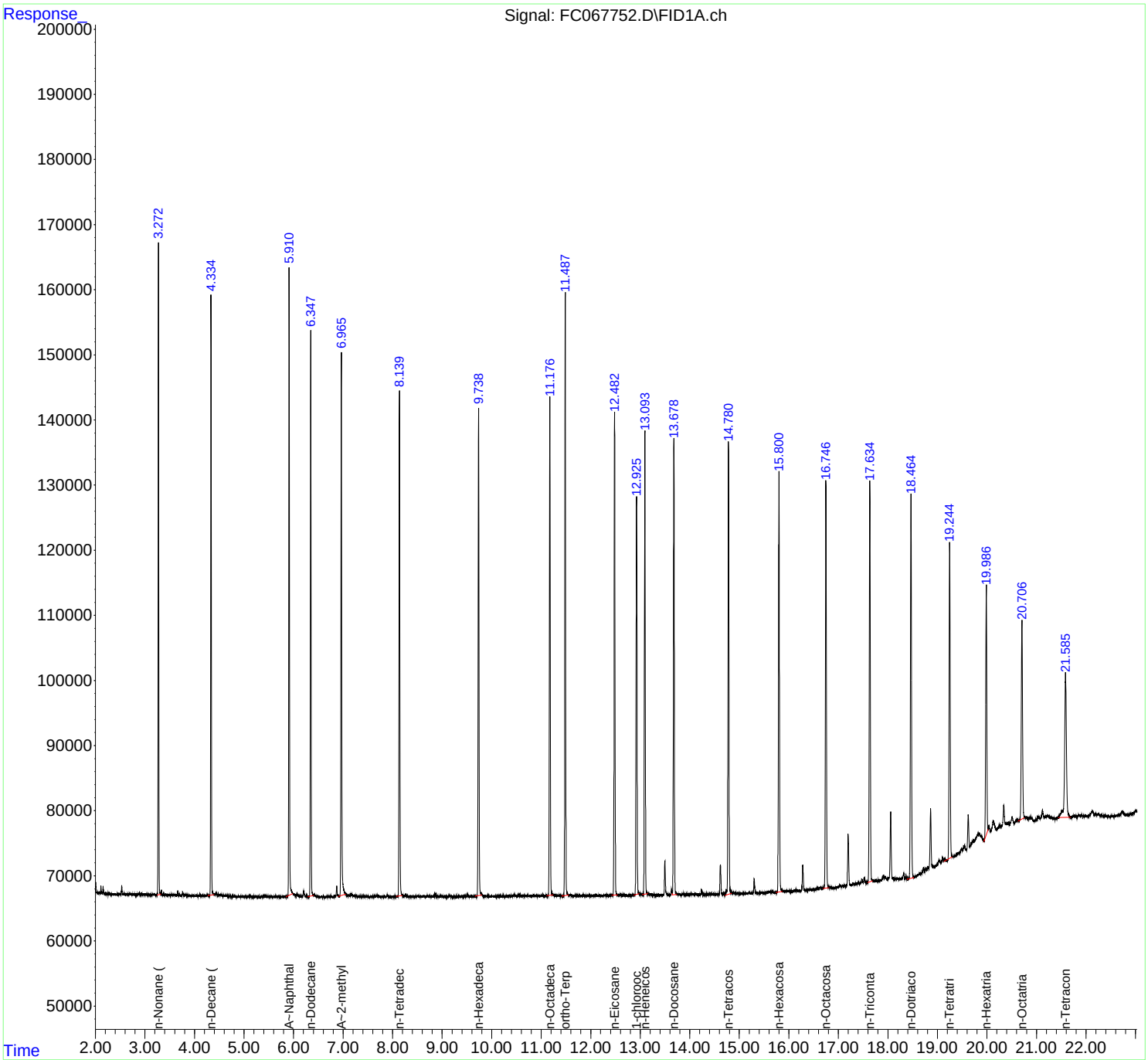
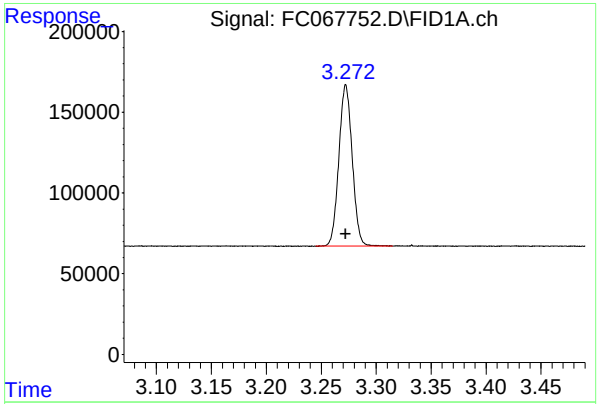
Integration File: autoint1.e
Quant Time: Nov 14 14:12:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:12:01 2024
Response via : Initial Calibration
Integrator: ChemStation

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






#1 n-Nonane (C9)

R.T.: 3.272 min
Delta R.T.: 0.000 min
Response: 843654
Conc: 5.17 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5

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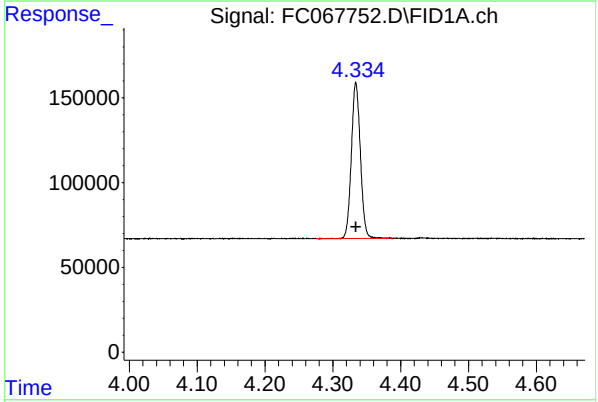
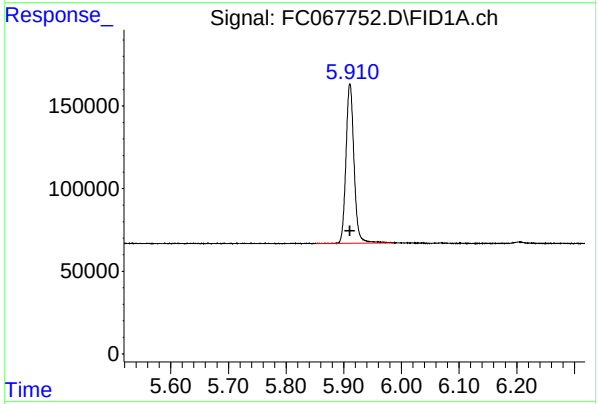


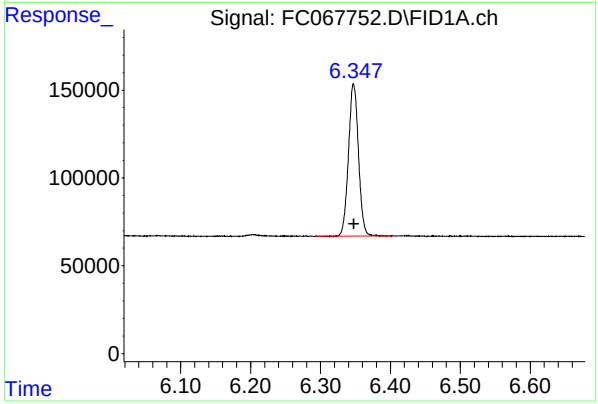

#2 n-Decane (C10)

R.T.: 4.334 min
Delta R.T.: 0.000 min
Response: 849229
Conc: 5.12 ug/ml



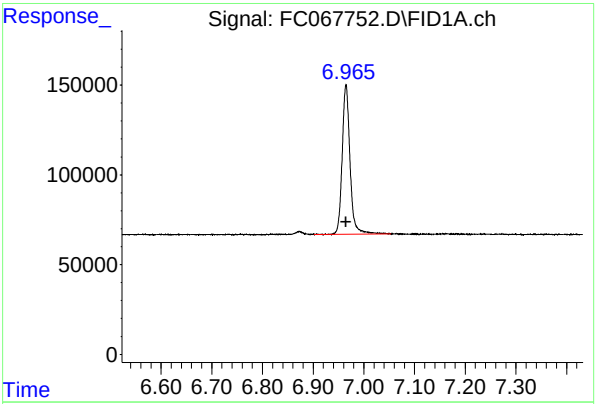

#3 A~Naphthalene (C11.7)

R.T.: 5.911 min
Delta R.T.: 0.000 min
Response: 932344
Conc: 5.09 ug/ml




#4 n-Dodecane (C12)

R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 863286
Conc: 5.13 ug/ml




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

R.T.: 6.965 min
Delta R.T.: 0.000 min
Response: 888961
Conc: 5.01 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5

**Manual Integrations APPROVED**

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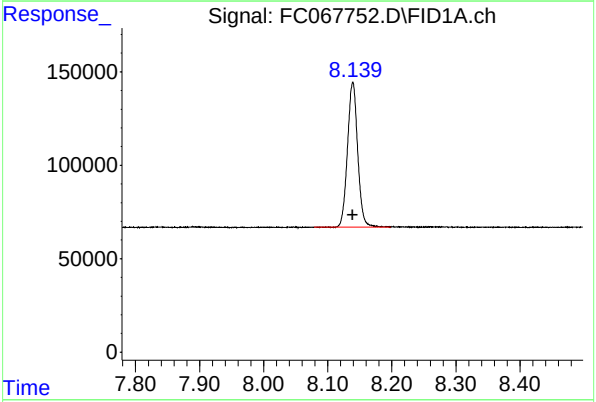
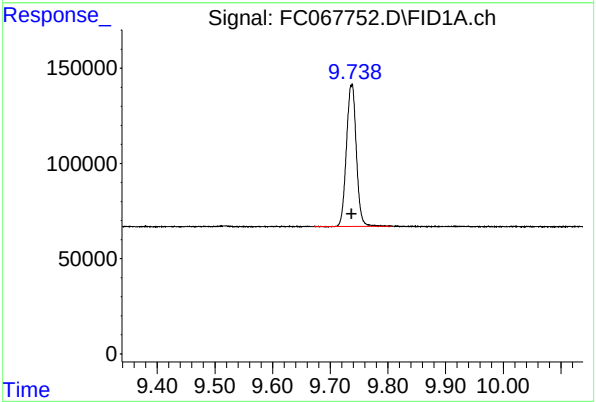
Supervised By :Ankita Jodhani 11/15/2024



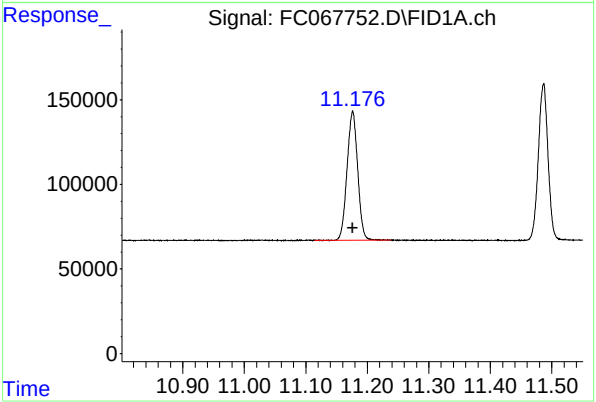

#6 n-Tetradecane (C14)

R.T.: 8.139 min
Delta R.T.: 0.000 min
Response: 856517
Conc: 5.11 ug/ml



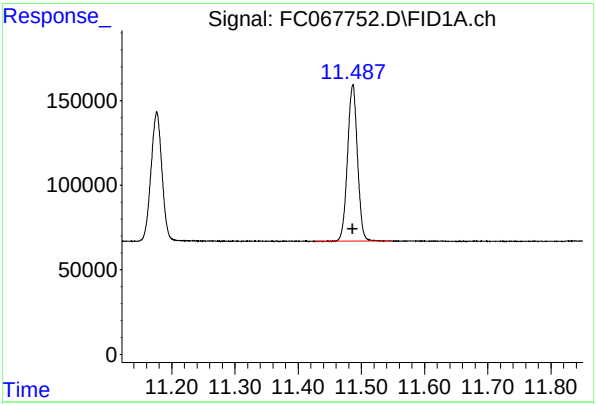

#7 n-Hexadecane (C16)

R.T.: 9.737 min
Delta R.T.: 0.000 min
Response: 887432
Conc: 5.12 ug/ml




#8 n-Octadecane (C18)

R.T.: 11.176 min
Delta R.T.: 0.000 min
Response: 913982
Conc: 5.19 ug/ml



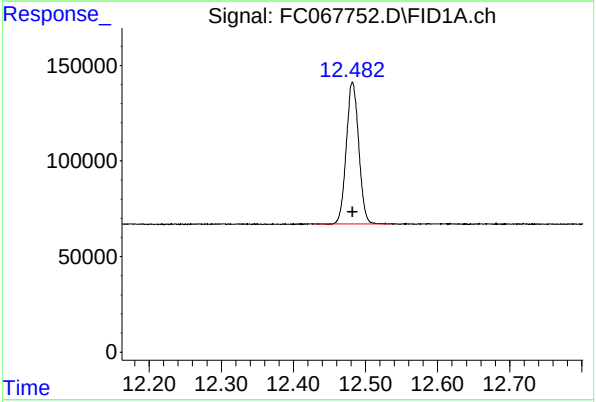

#9 ortho-Terphenyl (SURR)

R.T.: 11.486 min
Delta R.T.: 0.000 min
Response: 1011043
Conc: 5.21 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5

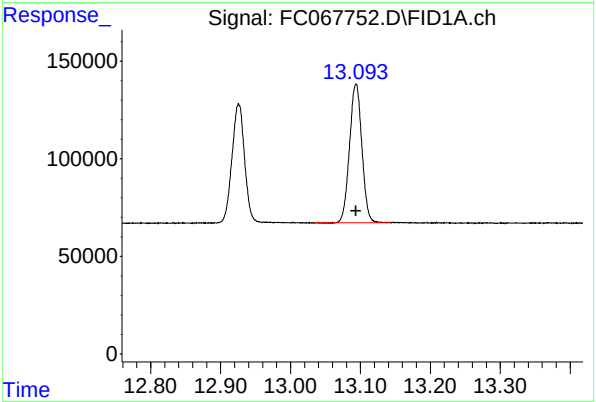
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



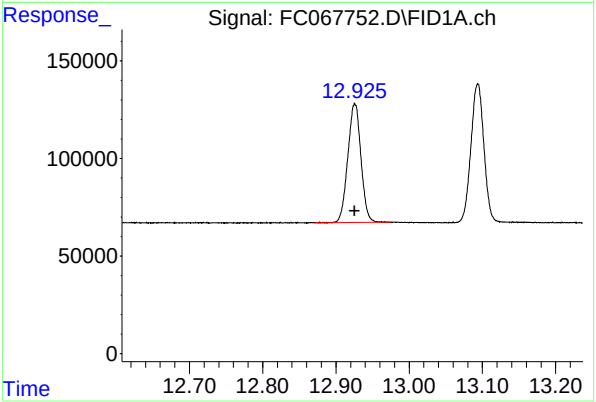

#10 n-Eicosane (C20)

R.T.: 12.482 min
Delta R.T.: 0.000 min
Response: 889327
Conc: 5.28 ug/ml



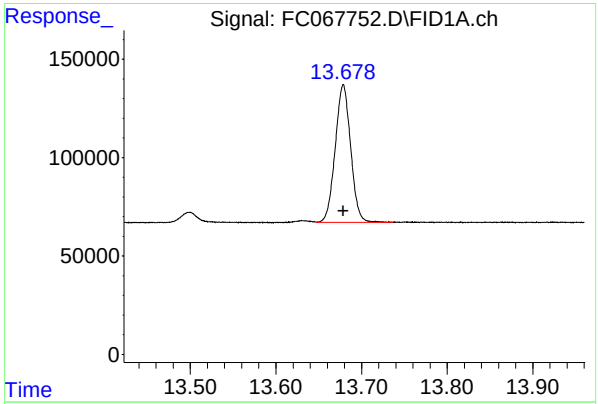

#11 n-Heneicosane (C21)

R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 873353
Conc: 5.31 ug/ml




#12 1-chlorooctadecane (SURR)

R.T.: 12.926 min
Delta R.T.: 0.000 min
Response: 759794
Conc: 5.23 ug/ml




#13 n-Docosane (C22)

R.T.: 13.679 min
Delta R.T.: 0.000 min
Response: 876194
Conc: 5.38 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5

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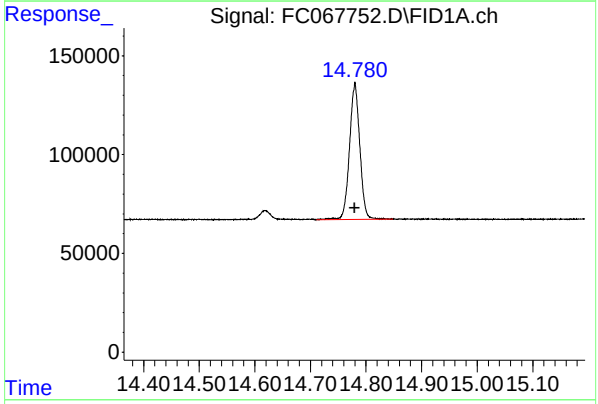
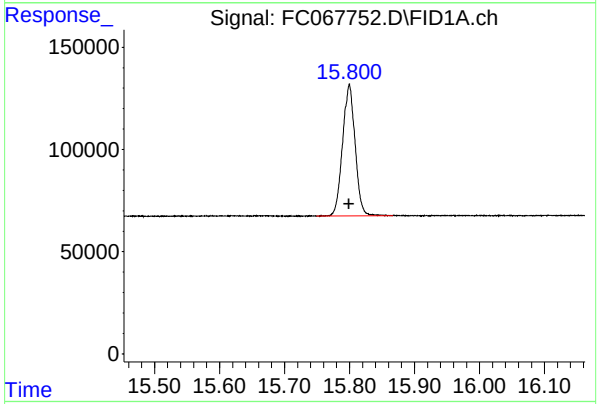


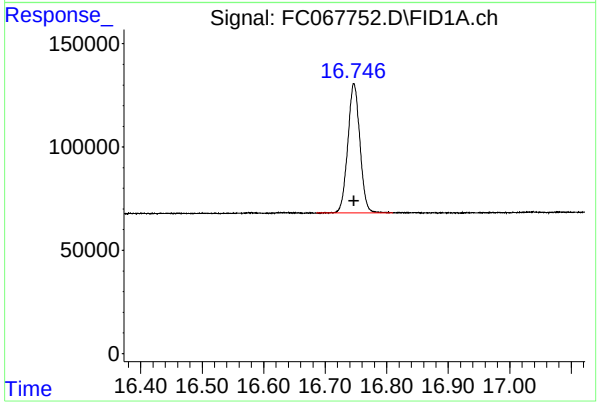

#14 n-Tetracosane (C24)

R.T.: 14.780 min
Delta R.T.: 0.000 min
Response: 890863
Conc: 5.55 ug/ml



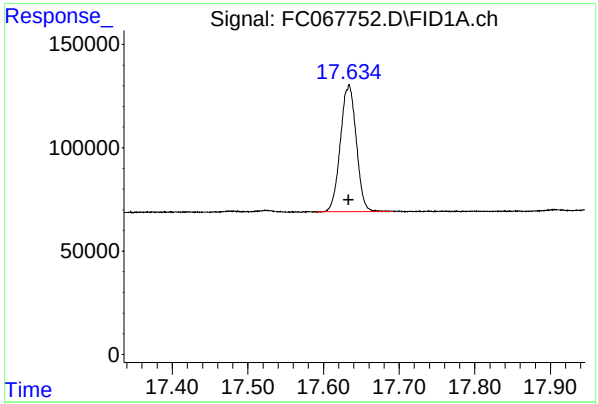

#15 n-Hexacosane (C26)

R.T.: 15.799 min
Delta R.T.: 0.000 min
Response: 863791
Conc: 5.58 ug/ml




#16 n-Octacosane (C28)

R.T.: 16.747 min
Delta R.T.: 0.000 min
Response: 857935
Conc: 5.68 ug/ml




#17 n-Tricontane (C30)

R.T.: 17.633 min
Delta R.T.: 0.000 mi
Response: 893915
Conc: 5.84 ug/m

**Instrument :**
FID_C
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5

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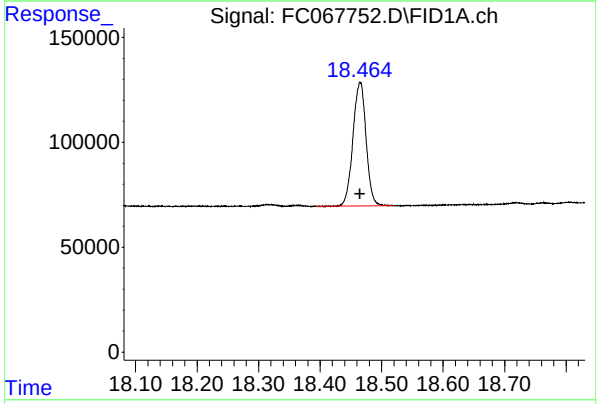
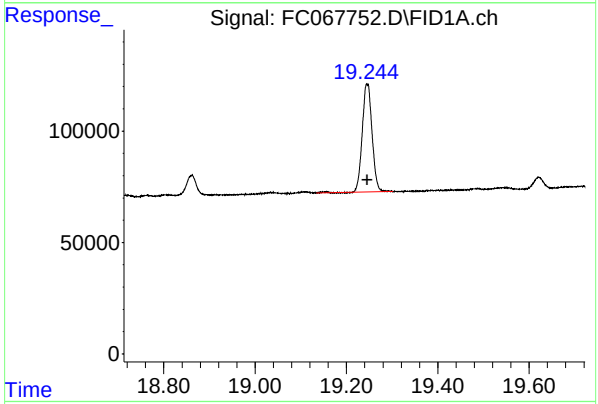


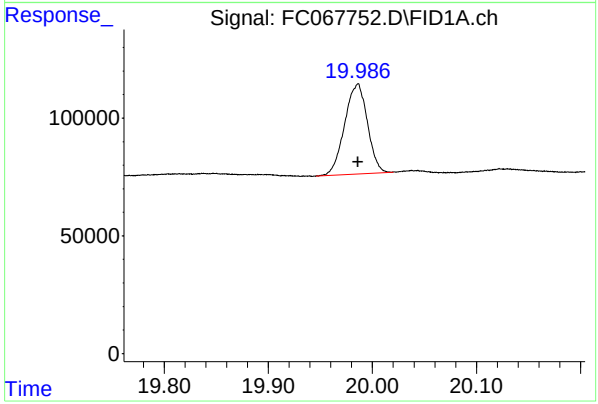

#18 n-Dotriacontane (C32)

R.T.: 18.465 min
Delta R.T.: 0.000 min
Response: 878383
Conc: 5.95 ug/ml



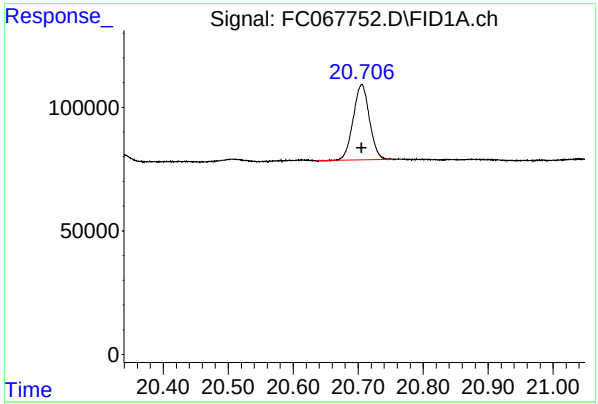

#19 n-Tetratriacontane (C34)

R.T.: 19.245 min
Delta R.T.: 0.000 min
Response: 725252
Conc: 5.75 ug/ml




#20 n-Hexatriacontane (C36)

R.T.: 19.986 min
Delta R.T.: 0.000 min
Response: 583478
Conc: 5.58 ug/ml m




#21 n-Octatriacontane (C38)

R.T.: 20.705 min
Delta R.T.: 0.000 min
Response: 529758
Conc: 5.42 ug/ml

**Instrument :**
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5 PPM ALIPHATIC HC STD5

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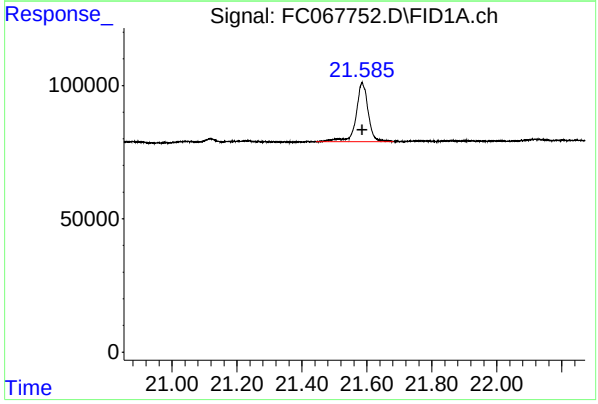



#22 n-Tetracontane (C40)

R.T.: 21.585 min
Delta R.T.: 0.000 min
Response: 569616
Conc: 5.84 ug/ml

rteres

**Instrument :**
FID_C
**LabSampleId :**
5 PPM ALIPHATIC HC STD5

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11142
Data File : FC067752.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:03
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.272 | 3.245 | 3.315 | BB | 99725 | 843654 | 83.44% | 4.631% |
| 2 | 4.334 | 4.275 | 4.389 | BB | 91882 | 849229 | 84.00% | 4.661% |
| 3 | 5.911 | 5.852 | 5.985 | BB | 96582 | 932344 | 92.22% | 5.118% |
| 4 | 6.348 | 6.294 | 6.404 | BB | 86656 | 863286 | 85.39% | 4.739% |
| 5 | 6.965 | 6.902 | 7.054 | BB | 83408 | 888961 | 87.93% | 4.880% |
| 6 | 8.139 | 8.079 | 8.199 | BB | 77381 | 856517 | 84.72% | 4.701% |
| 7 | 9.737 | 9.672 | 9.805 | BB | 74117 | 887432 | 87.77% | 4.871% |
| 8 | 11.176 | 11.114 | 11.239 | BB | 76599 | 913982 | 90.40% | 5.017% |
| 9 | 11.486 | 11.425 | 11.547 | BB | 92885 | 1011043 | 100.00% | 5.550% |
| 10 | 12.482 | 12.429 | 12.535 | BB | 73997 | 889327 | 87.96% | 4.882% |
| 11 | 12.926 | 12.870 | 12.975 | BB | 60743 | 759794 | 75.15% | 4.171% |
| 12 | 13.094 | 13.034 | 13.144 | BB | 71100 | 873353 | 86.38% | 4.794% |
| 13 | 13.679 | 13.647 | 13.737 | VB | 69955 | 876194 | 86.66% | 4.809% |
| 14 | 14.780 | 14.710 | 14.849 | BB | 69378 | 890863 | 88.11% | 4.890% |
| 15 | 15.799 | 15.749 | 15.867 | BB | 64631 | 863791 | 85.44% | 4.741% |
| 16 | 16.747 | 16.685 | 16.810 | BB | 62562 | 857935 | 84.86% | 4.709% |
| 17 | 17.633 | 17.590 | 17.692 | BB | 61372 | 893915 | 88.42% | 4.907% |
| 18 | 18.465 | 18.394 | 18.519 | BB | 59084 | 878383 | 86.88% | 4.822% |
| 19 | 19.245 | 19.134 | 19.302 | BB | 48182 | 725252 | 71.73% | 3.981% |
| 20 | 19.985 | 19.915 | 20.019 | BV | 37829 | 563385 | 55.72% | 3.092% |
| 21 | 20.705 | 20.635 | 20.754 | BB | 30516 | 529758 | 52.40% | 2.908% |
| 22 | 21.585 | 21.444 | 21.680 | BB | 22241 | 569616 | 56.34% | 3.127% |
| | | | Sum of corrected areas: | | | 18218016 | | |

Aliphatic EPH 111424.M Fri Nov 15 03:30:38 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067753.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:49
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 14 16:43:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.490 | 3947572 | 20.361 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.72% |
| 12) S | 1-chlorooctadecane (S... | 12.928 | 2977474 | 20.512 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 41.02% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.272 | 3273252 | 20.067 ug/ml |
| 2) T | n-Decane (C10) | 4.334 | 3340748 | 20.145 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 5.911 | 3690809 | 20.151 ug/ml |
| 4) T | n-Dodecane (C12) | 6.348 | 3400656 | 20.191 ug/ml |
| 5) T | A~2-methylnaphthalene... | 6.965 | 3590183 | 20.243 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.140 | 3396495 | 20.281 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.738 | 3529343 | 20.366 ug/ml |
| 8) T | n-Octadecane (C18) | 11.179 | 3598310 | 20.452 ug/ml |
| 10) T | n-Eicosane (C20) | 12.485 | 3453724 | 20.511 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.097 | 3372726 | 20.498 ug/ml |
| 13) T | n-Docosane (C22) | 13.682 | 3336664 | 20.489 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.782 | 3259223 | 20.322 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.801 | 3138531 | 20.267 ug/ml |
| 16) T | n-Octacosane (C28) | 16.750 | 3091639 | 20.471 ug/ml |
| 17) T | n-Tricontane (C30) | 17.635 | 3156621 | 20.617 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.466 | 3113422 | 21.081 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.248 | 2614033 | 20.725 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.986 | 2189342 | 20.933 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.708 | 1993396 | 20.407 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.591 | 1922623 | 19.726 ug/ml |

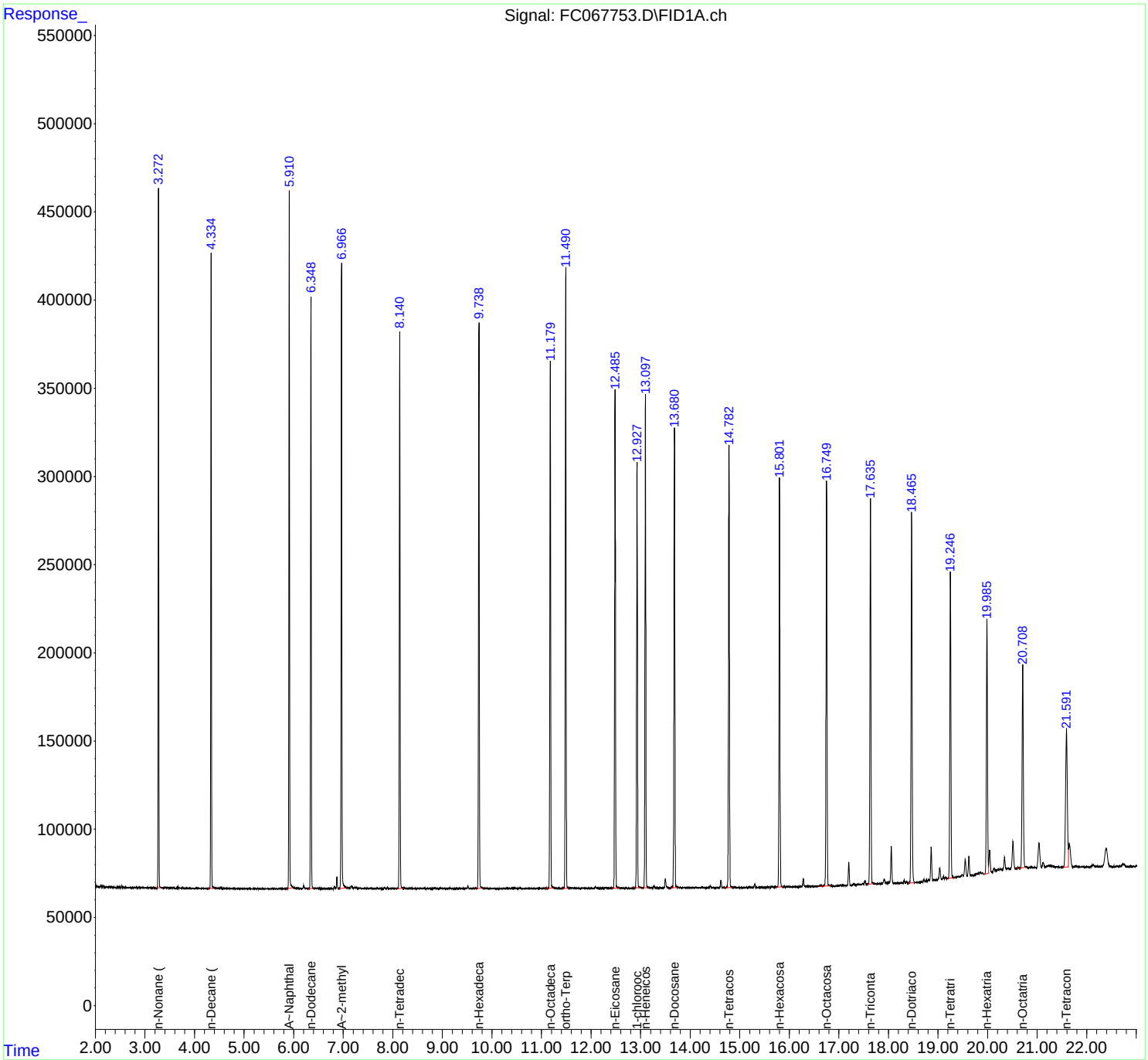
(f)=RT Delta > 1/2 Window (m)=manual int.

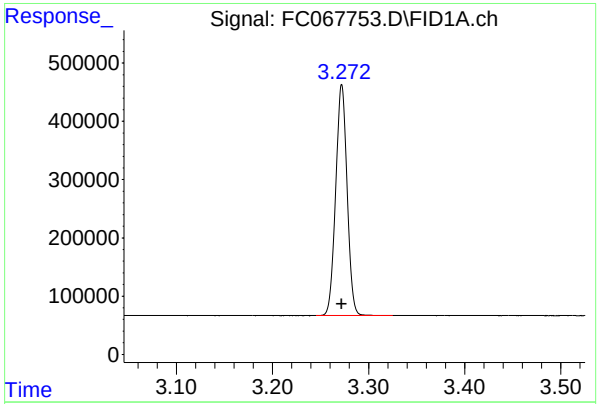
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067753.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:49
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 14 16:43:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

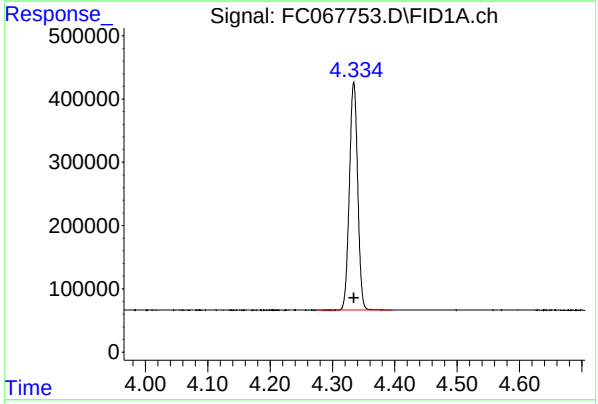





#1 n-Nonane (C9)

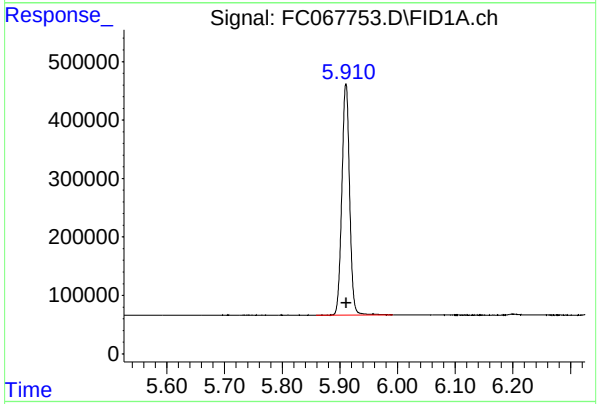
R.T.: 3.272 min
Delta R.T.: 0.000 min
Response: 3273252
Conc: 20.07 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV



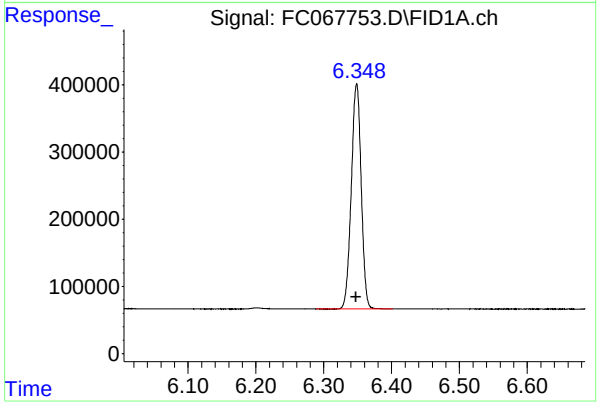

#2 n-Decane (C10)

R.T.: 4.334 min
Delta R.T.: 0.000 min
Response: 3340748
Conc: 20.15 ug/ml



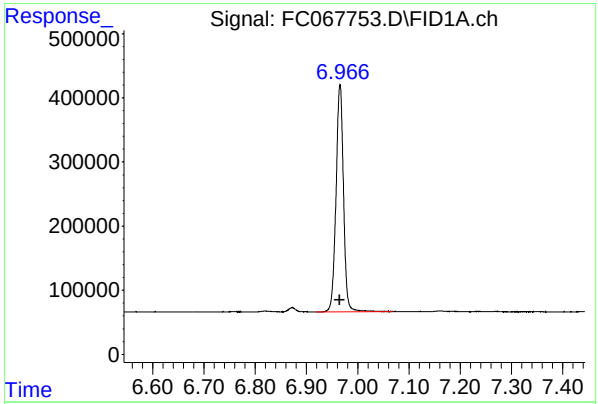

#3 A~Naphthalene (C11.7)

R.T.: 5.911 min
Delta R.T.: 0.000 min
Response: 3690809
Conc: 20.15 ug/ml




#4 n-Dodecane (C12)

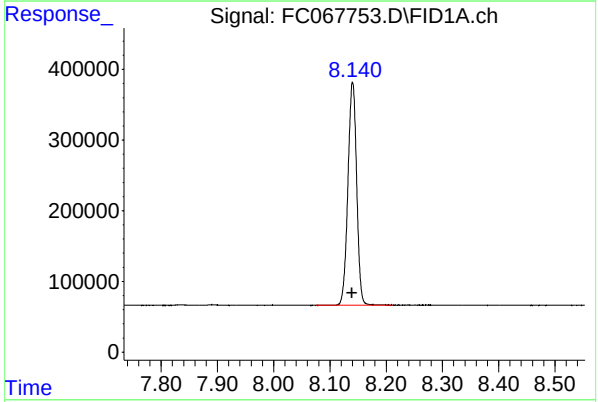
R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 3400656
Conc: 20.19 ug/ml




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

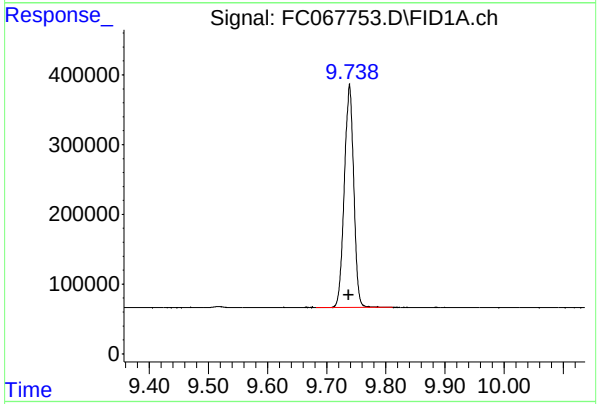
R.T.: 6.965 min
Delta R.T.: 0.000 min
Response: 3590183
Conc: 20.24 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV



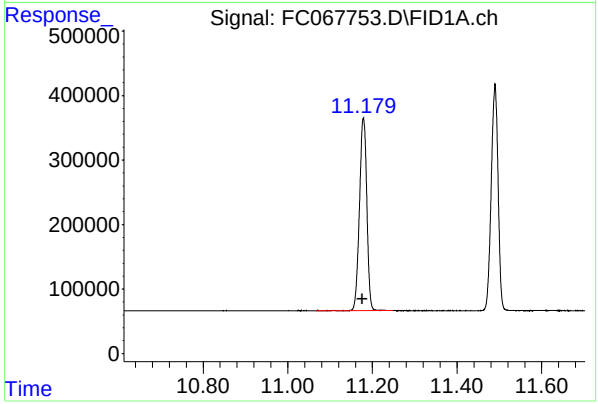

#6 n-Tetradecane (C14)

R.T.: 8.140 min
Delta R.T.: 0.001 min
Response: 3396495
Conc: 20.28 ug/ml



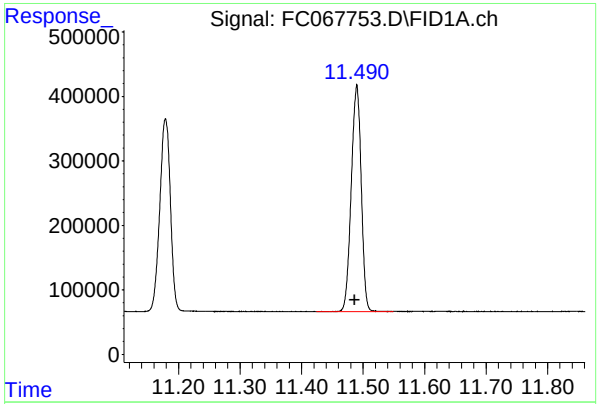

#7 n-Hexadecane (C16)

R.T.: 9.738 min
Delta R.T.: 0.001 min
Response: 3529343
Conc: 20.37 ug/ml




#8 n-Octadecane (C18)

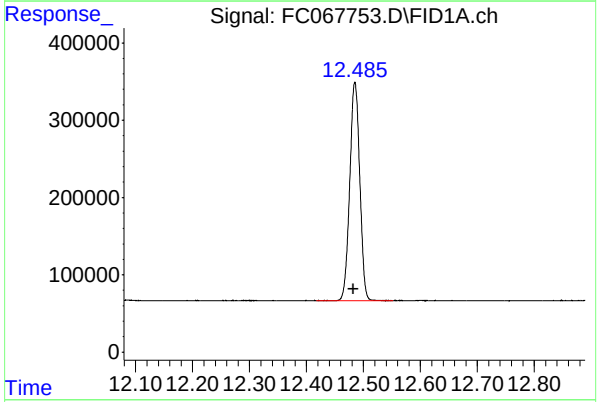
R.T.: 11.179 min
Delta R.T.: 0.003 min
Response: 3598310
Conc: 20.45 ug/ml




#9 ortho-Terphenyl (SURR)

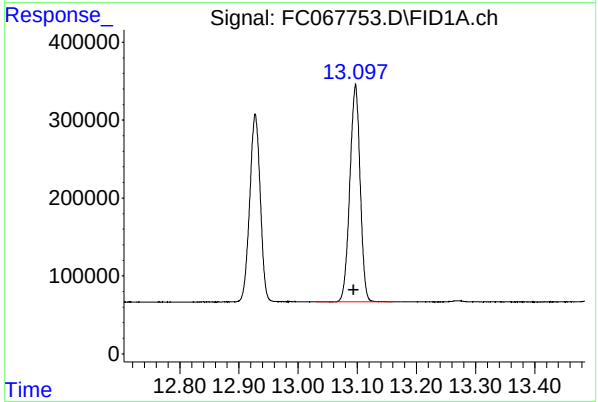
R.T.: 11.490 min
Delta R.T.: 0.003 min
Response: 3947572
Conc: 20.36 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV



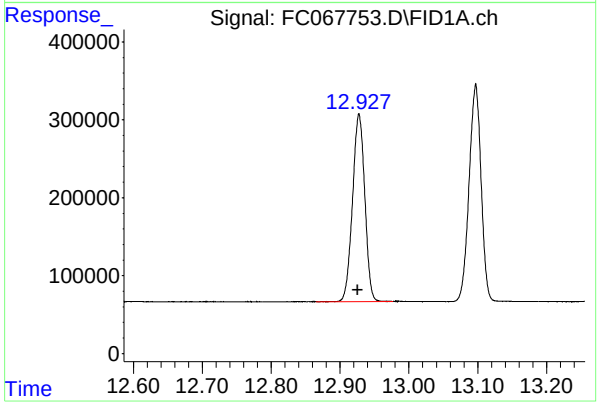

#10 n-Eicosane (C20)

R.T.: 12.485 min
Delta R.T.: 0.003 min
Response: 3453724
Conc: 20.51 ug/ml



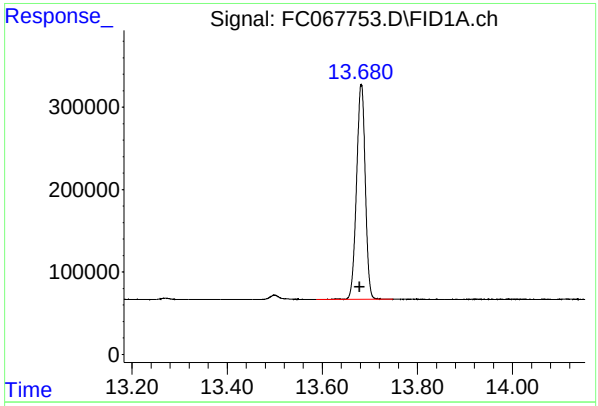

#11 n-Heneicosane (C21)

R.T.: 13.097 min
Delta R.T.: 0.003 min
Response: 3372726
Conc: 20.50 ug/ml




#12 1-chlorooctadecane (SURR)

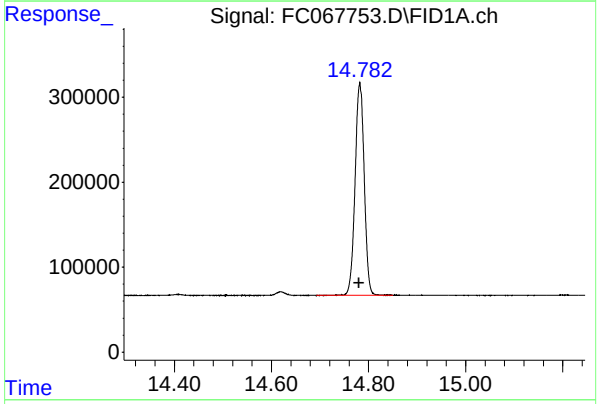
R.T.: 12.928 min
Delta R.T.: 0.002 min
Response: 2977474
Conc: 20.51 ug/ml




#13 n-Docosane (C22)

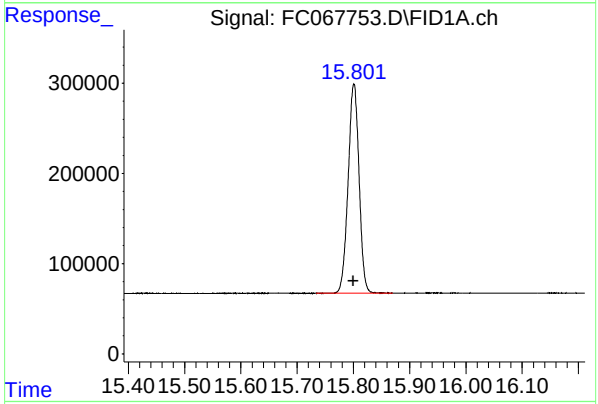
R.T.: 13.682 min
Delta R.T.: 0.003 min
Response: 3336664
Conc: 20.49 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV



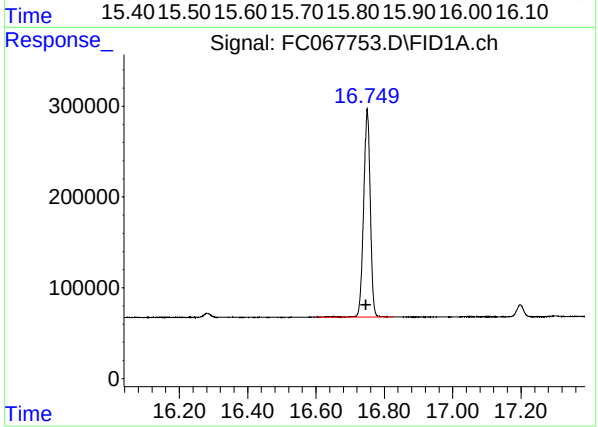

#14 n-Tetracosane (C24)

R.T.: 14.782 min
Delta R.T.: 0.002 min
Response: 3259223
Conc: 20.32 ug/ml



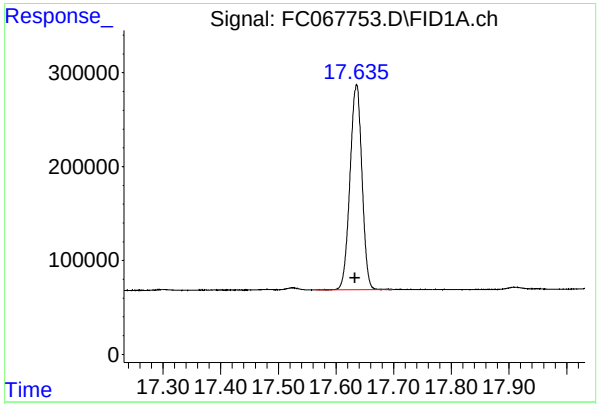

#15 n-Hexacosane (C26)

R.T.: 15.801 min
Delta R.T.: 0.001 min
Response: 3138531
Conc: 20.27 ug/ml




#16 n-Octacosane (C28)

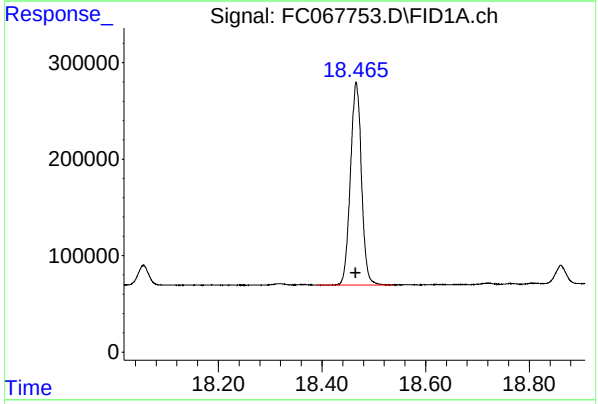
R.T.: 16.750 min
Delta R.T.: 0.003 min
Response: 3091639
Conc: 20.47 ug/ml




#17 n-Tricontane (C30)

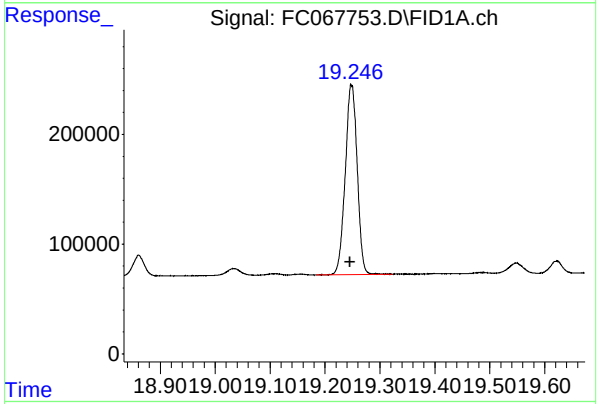
R.T.: 17.635 min
Delta R.T.: 0.002 min
Response: 3156621
Conc: 20.62 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV



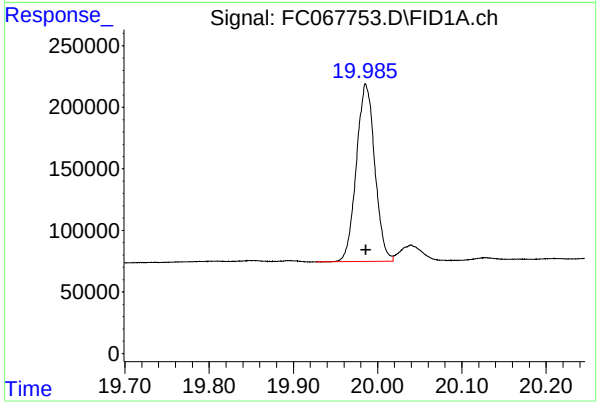

#18 n-Dotriacontane (C32)

R.T.: 18.466 min
Delta R.T.: 0.001 min
Response: 3113422
Conc: 21.08 ug/ml



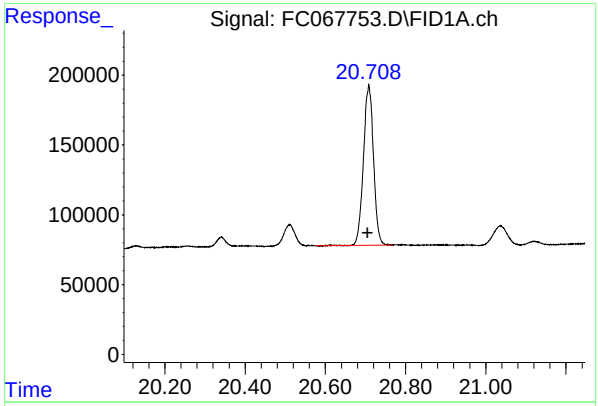

#19 n-Tetratriacontane (C34)

R.T.: 19.248 min
Delta R.T.: 0.003 min
Response: 2614033
Conc: 20.72 ug/ml




#20 n-Hexatriacontane (C36)

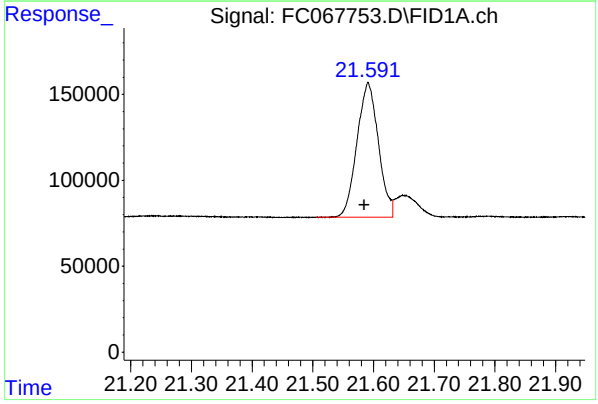
R.T.: 19.986 min
Delta R.T.: 0.000 min
Response: 2189342
Conc: 20.93 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 20.708 min
Delta R.T.: 0.003 min
Response: 1993396
Conc: 20.41 ug/ml

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV




#22 n-Tetracontane (C40)

R.T.: 21.591 min
Delta R.T.: 0.006 min
Response: 1922623
Conc: 19.73 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067753.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:49
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.272 | 3.245 | 3.325 | BB | 397207 | 3273252 | 82.92% | 4.717% |
| 2 | 4.334 | 4.274 | 4.397 | BB | 359161 | 3340748 | 84.63% | 4.815% |
| 3 | 5.911 | 5.859 | 5.992 | BB | 395819 | 3690809 | 93.50% | 5.319% |
| 4 | 6.349 | 6.289 | 6.402 | BB | 335407 | 3400656 | 86.15% | 4.901% |
| 5 | 6.965 | 6.919 | 7.069 | BB | 354092 | 3590183 | 90.95% | 5.174% |
| 6 | 8.140 | 8.075 | 8.212 | BB | 315820 | 3396495 | 86.04% | 4.895% |
| 7 | 9.738 | 9.682 | 9.812 | BB | 320549 | 3529343 | 89.41% | 5.086% |
| 8 | 11.179 | 11.067 | 11.249 | BB | 298392 | 3598310 | 91.15% | 5.186% |
| 9 | 11.490 | 11.424 | 11.549 | BB | 353294 | 3947572 | 100.00% | 5.689% |
| 10 | 12.485 | 12.417 | 12.552 | BB | 282430 | 3453724 | 87.49% | 4.977% |
| 11 | 12.928 | 12.865 | 12.977 | BB | 241045 | 2977474 | 75.43% | 4.291% |
| 12 | 13.097 | 13.030 | 13.160 | BB | 278431 | 3372726 | 85.44% | 4.861% |
| 13 | 13.682 | 13.587 | 13.749 | BB | 259524 | 3336664 | 84.52% | 4.809% |
| 14 | 14.782 | 14.692 | 14.850 | BB | 249647 | 3259223 | 82.56% | 4.697% |
| 15 | 15.801 | 15.734 | 15.870 | BB | 232224 | 3138531 | 79.51% | 4.523% |
| 16 | 16.750 | 16.600 | 16.825 | BB | 228528 | 3091639 | 78.32% | 4.456% |
| 17 | 17.635 | 17.565 | 17.699 | BB | 218395 | 3156621 | 79.96% | 4.549% |
| 18 | 18.466 | 18.389 | 18.537 | BB | 209581 | 3113422 | 78.87% | 4.487% |
| 19 | 19.248 | 19.184 | 19.324 | BB | 171350 | 2614033 | 66.22% | 3.767% |
| 20 | 19.986 | 19.927 | 20.018 | BV | 142350 | 2189342 | 55.46% | 3.155% |
| 21 | 20.708 | 20.577 | 20.769 | BB | 115321 | 1993396 | 50.50% | 2.873% |
| 22 | 21.591 | 21.505 | 21.632 | BV | 78477 | 1922623 | 48.70% | 2.771% |
| | | | Sum of corrected areas: | | | 69386786 | | |

Aliphatic EPH 111424.M Fri Nov 15 03:31:23 2024

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

# Inital Calibration Report for SequenceID : FD111424AR

**AreaCount**

| Parameter Range | FD048729.D | FD048730.D | FD048731.D | FD048732.D | FD048733.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 35969884.000 | 18267930.000 | 7601024.000 | 4048482.000 | 2051093.000 | |
| Aromatic C12-C16 | 53799266.000 | 27329767.000 | 11363305.000 | 6130468.000 | 3105423.000 | |
| Aromatic C16-C21 | 68956735.000 | 35122486.000 | 14626807.000 | 7814027.000 | 4056681.000 | |
| Aromatic C21-C36 | 129641639.000 | 66976017.000 | 28128596.000 | 14930708.000 | 7699801.000 | |
| Aromatic EPH | 288367524.000 | 147696200.000 | 61719732.000 | 32923685.000 | 16912998.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 192017.544 | 5.932 | | | | |
| Aromatic C12-C16 | 192458.9766662 | 6.576 | | | | |
| Aromatic C16-C21 | 185804.816 | 6.985 | | | | |
| Aromatic C21-C36 | 157231.0562216 | 7.202 | | | | |
| Aromatic EPH | 173317.2659998 | 6.861 | | | | |

**Concentration**

| Parameter Range | FD048729.D | FD048730.D | FD048731.D | FD048732.D | FD048733.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 200.000 | 100.000 | 40.000 | 20.000 | 10.000 | |
| Aromatic C12-C16 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aromatic C16-C21 | 400.000 | 200.000 | 80.000 | 40.000 | 20.000 | |
| Aromatic C21-C36 | 900.000 | 450.000 | 180.000 | 90.000 | 45.000 | |
| Aromatic EPH | 1800.000 | 900.000 | 360.000 | 180.000 | 90.000 | |

**Response Factor**

| Parameter Range | FD048729.D | FD048730.D | FD048731.D | FD048732.D | FD048733.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 179849.420000 | 182679.300000 | 190025.600000 | 202424.100000 | 205109.300000 | |
| Aromatic C12-C16 | 179330.886666 | 182198.446666 | 189388.416666 | 204348.933333 | 207028.200000 | |
| Aromatic C16-C21 | 172391.837500 | 175612.430000 | 182835.087500 | 195350.675000 | 202834.050000 | |
| Aromatic C21-C36 | 144046.265555 | 148835.593333 | 156269.977777 | 165896.755555 | 171106.688888 | |
| Aromatic EPH | 160204.180000 | 164106.888888 | 171443.700000 | 182909.361111 | 187922.200000 | |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048729.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 10:39
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 14 12:42:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.373 | 16279710 | 96.638 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 193.28% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.224 | 10978429 | 98.038 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 196.08%# |
| 11) S | ortho-Terphenyl (SURR) | 11.261 | 17593385 | 96.618 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 193.24% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.194 | 17620031 | 97.215 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.713 | 18349853 | 97.281 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.761 | 17920924 | 97.298 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.028 | 18165782 | 97.718 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.324 | 17712560 | 96.795 ug/ml |
| 8) T | Flouorene (C16.55) | 9.102 | 17936029 | 97.266 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.490 | 17155776 | 97.334 ug/ml |
| 10) T | Anthracene (C19.43) | 10.567 | 17179222 | 96.460 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.296 | 16826726 | 96.772 ug/ml |
| 13) T | Pyrene (C20.8) | 12.590 | 16685708 | 97.181 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.460 | 15682702 | 97.315 ug/ml |
| 15) T | Chrysene (C27.41) | 14.507 | 15579339 | 95.080 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.009 | 14749238 | 96.630 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.047 | 14449844 | 95.199 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.387 | 13748521 | 95.913 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.753 | 12754859 | 101.169 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.793 | 12899293 | 92.101 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.010 | 12951117 | 95.291 ug/ml |

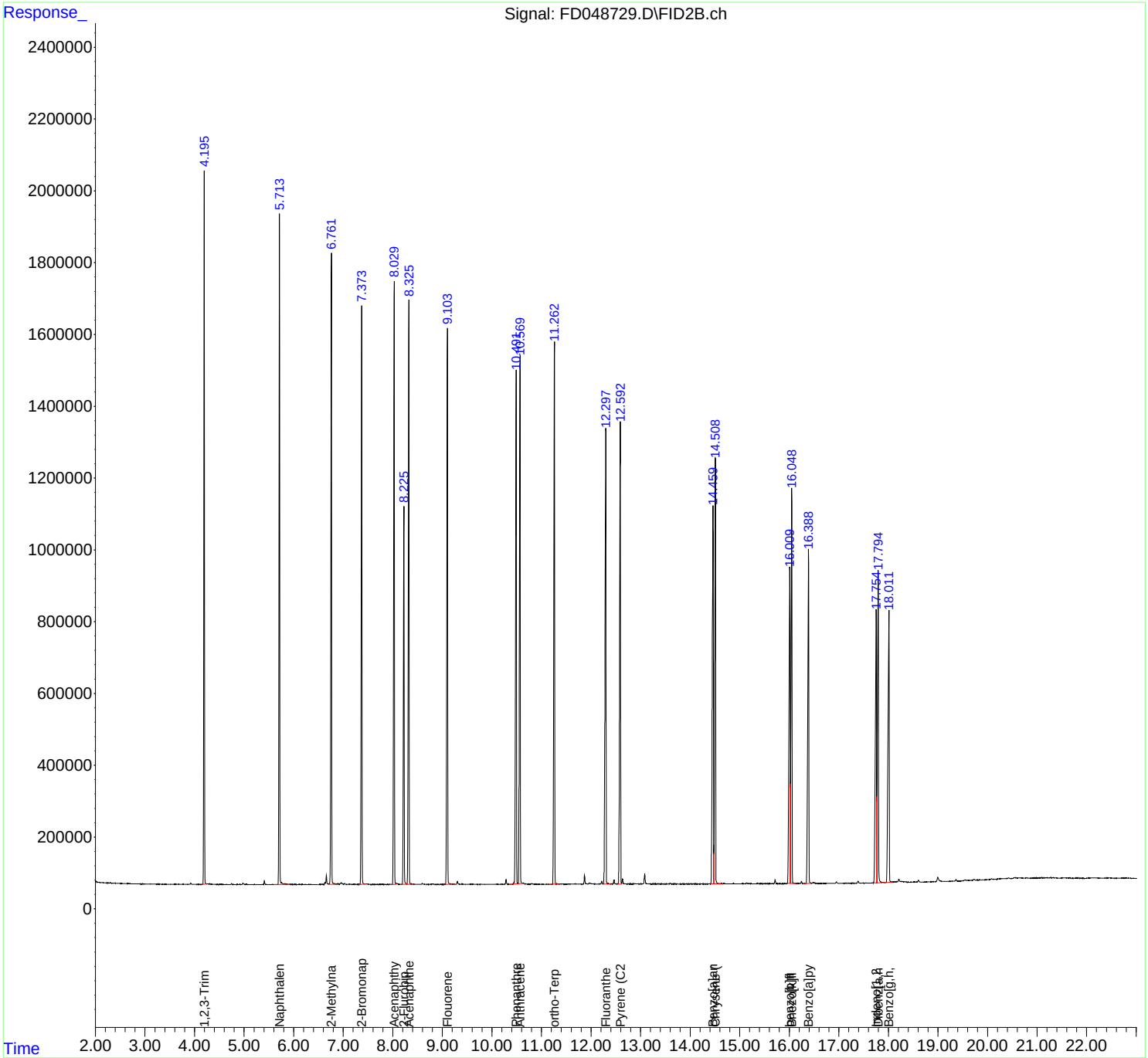
(f)=RT Delta > 1/2 Window (m)=manual int.

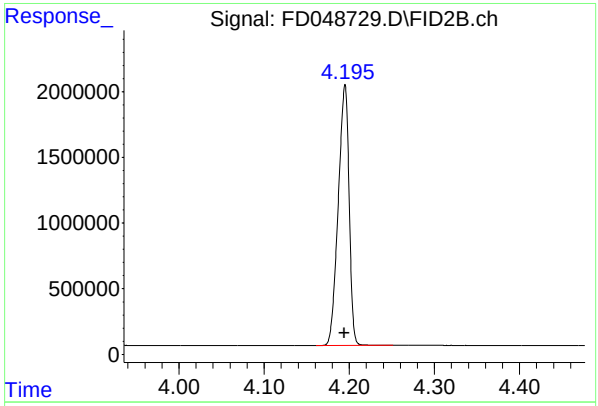
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048729.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 10:39
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 14 12:42:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

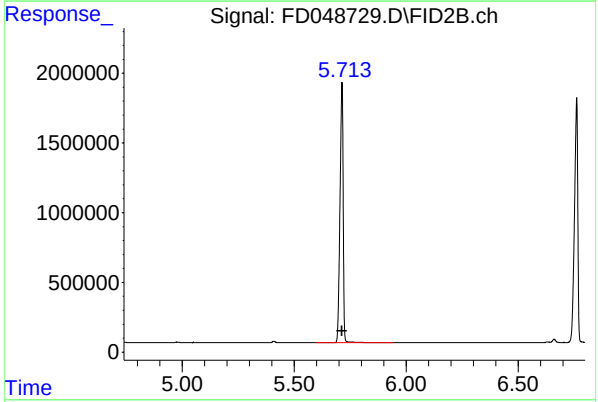





#1 1,2,3-Trimethylbenzene (C10.1)

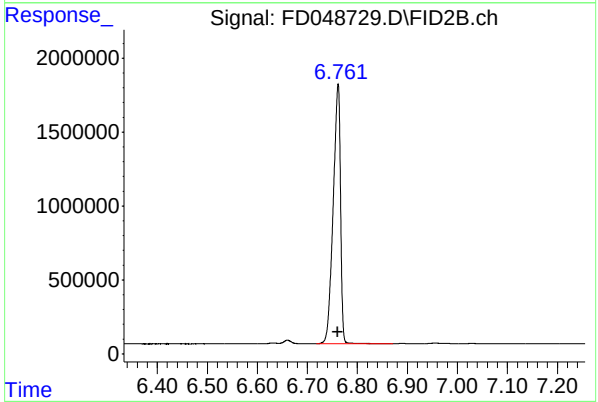
R.T.: 4.194 min
Delta R.T.: 0.000 min
Response: 17620031
Conc: 97.22 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
100 PPM AROMATIC HC STD1



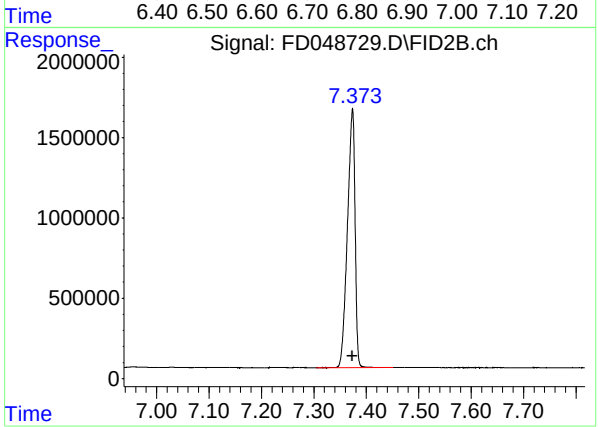

#2 Naphthalene (C11.7)

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 18349853
Conc: 97.28 ug/ml



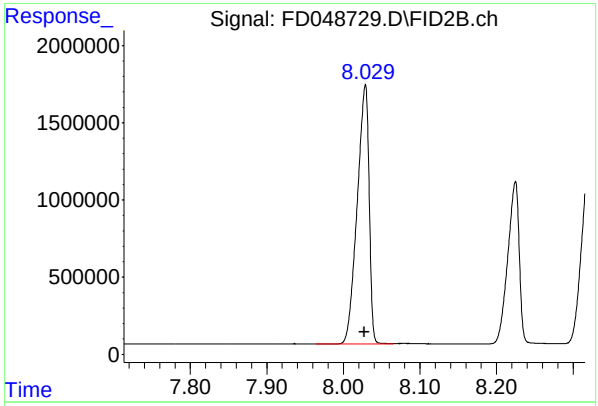

#3 2-Methylnaphthalene (C12.89)

R.T.: 6.761 min
Delta R.T.: 0.000 min
Response: 17920924
Conc: 97.30 ug/ml




#4 2-Bromonaphthalene (SURR)

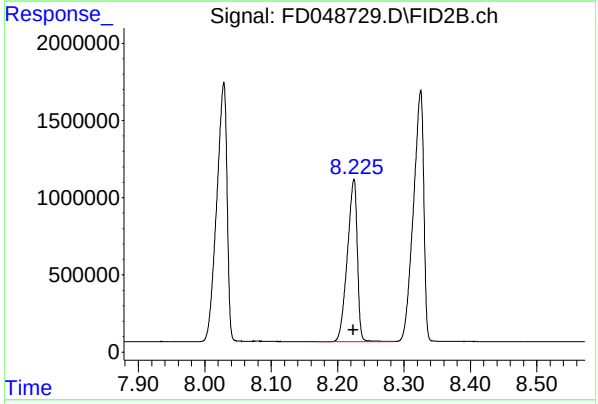
R.T.: 7.373 min
Delta R.T.: 0.000 min
Response: 16279710
Conc: 96.64 ug/ml




#5 Acenaphthylene (C15.06)

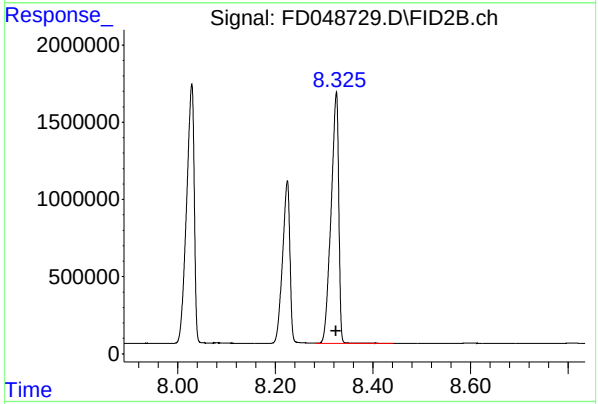
R.T.: 8.028 min
Delta R.T.: 0.000 min
Response: 18165782
Conc: 97.72 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
100 PPM AROMATIC HC STD1



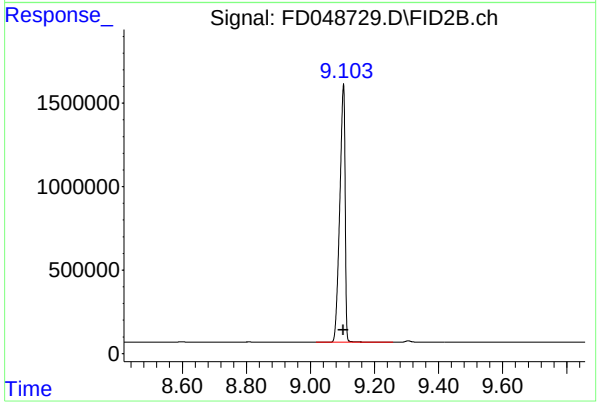

#6 2-Flurobiphenyl (SURR)

R.T.: 8.224 min
Delta R.T.: 0.000 min
Response: 10978429
Conc: 98.04 ug/ml



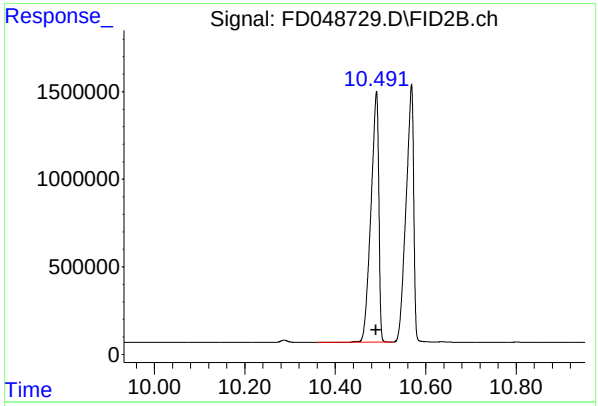

#7 Acenaphthene (C15.5)

R.T.: 8.324 min
Delta R.T.: 0.000 min
Response: 17712560
Conc: 96.79 ug/ml




#8 Flouorene (C16.55)

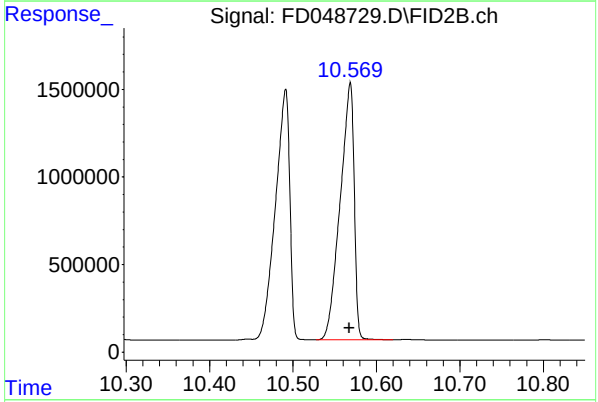
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 17936029
Conc: 97.27 ug/ml




#9 Phenanthrene (C19.36)

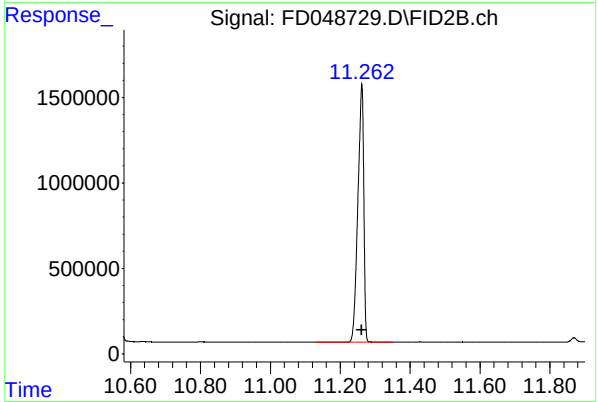
R.T.: 10.490 min
Delta R.T.: 0.000 min
Response: 17155776
Conc: 97.33 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
100 PPM AROMATIC HC STD1



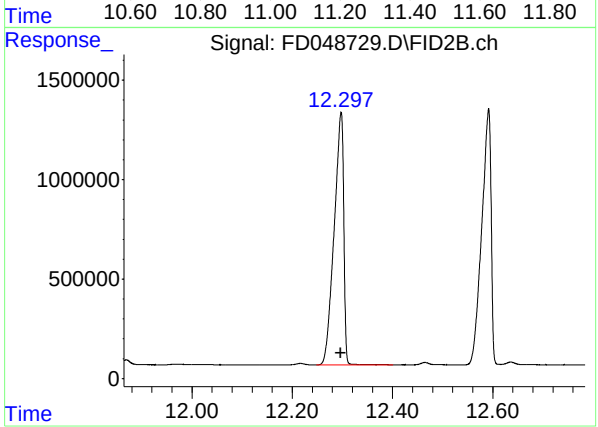

#10 Anthracene (C19.43)

R.T.: 10.567 min
Delta R.T.: 0.000 min
Response: 17179222
Conc: 96.46 ug/ml



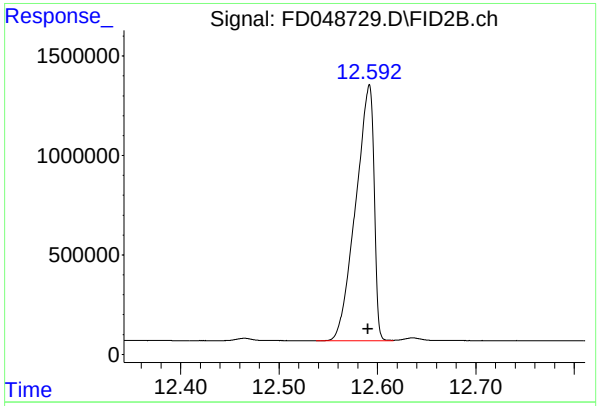

#11 ortho-Terphenyl (SURR)

R.T.: 11.261 min
Delta R.T.: 0.000 min
Response: 17593385
Conc: 96.62 ug/ml




#12 Fluoranthene (C21.85)

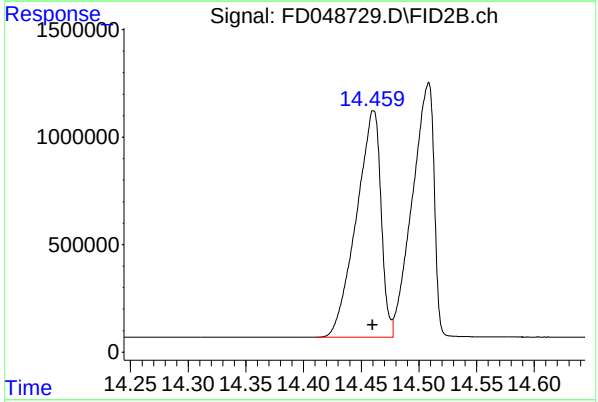
R.T.: 12.296 min
Delta R.T.: 0.000 min
Response: 16826726
Conc: 96.77 ug/ml




#13 Pyrene (C20.8)

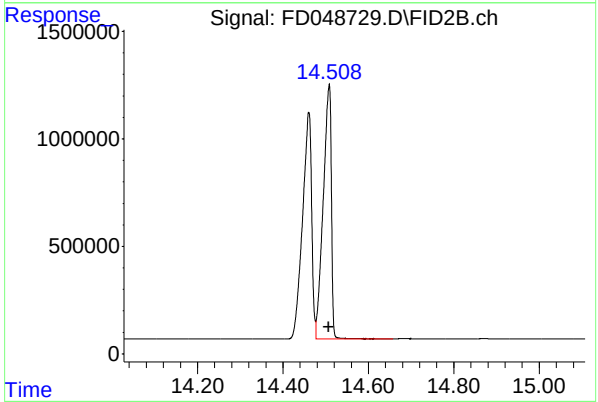
R.T.: 12.590 min
Delta R.T.: 0.000 min
Response: 16685708
Conc: 97.18 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
100 PPM AROMATIC HC STD1



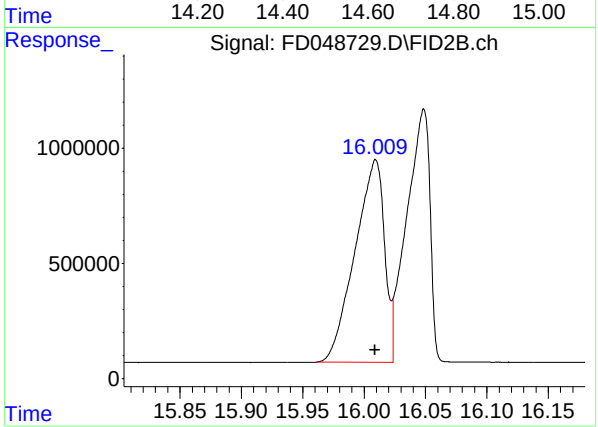

#14 Benzo[a]anthracene (C26.37)

R.T.: 14.460 min
Delta R.T.: 0.000 min
Response: 15682702
Conc: 97.32 ug/ml



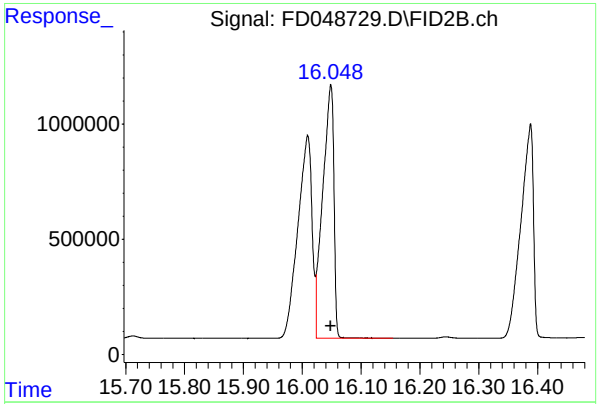

#15 Chrysene (C27.41)

R.T.: 14.507 min
Delta R.T.: 0.000 min
Response: 15579339
Conc: 95.08 ug/ml




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

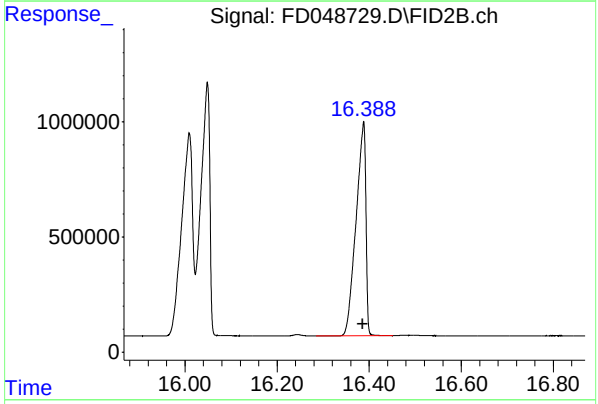
R.T.: 16.009 min
Delta R.T.: 0.000 min
Response: 14749238
Conc: 96.63 ug/ml




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

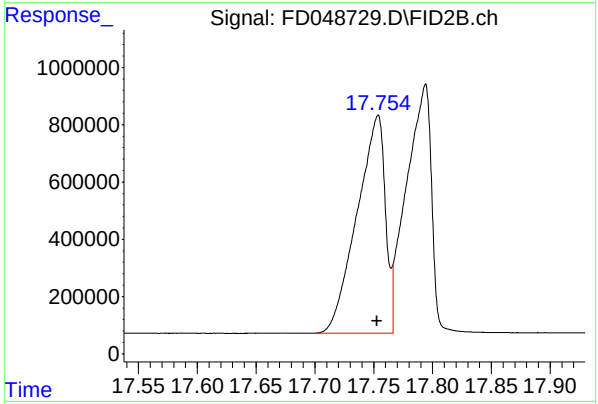
R.T.: 16.047 min
Delta R.T.: 0.000 min
Response: 14449844
Conc: 95.20 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
100 PPM AROMATIC HC STD1



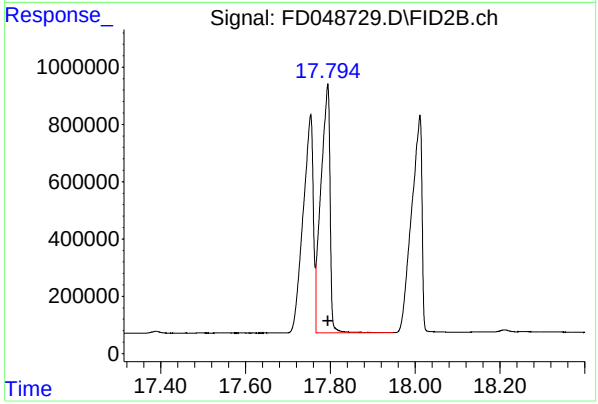

#18 Benzo[a]pyrene (C31.34)

R.T.: 16.387 min
Delta R.T.: 0.000 min
Response: 13748521
Conc: 95.91 ug/ml



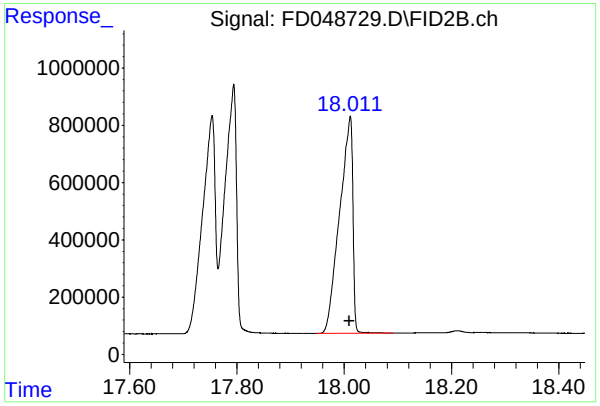

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.753 min
Delta R.T.: 0.000 min
Response: 12754859
Conc: 101.17 ug/ml




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

R.T.: 17.793 min
Delta R.T.: -0.001 min
Response: 12899293
Conc: 92.10 ug/ml




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

R.T.: 18.010 min
Delta R.T.: 0.000 mi
Response: 12951117
Conc: 95.29 ug/m

**Instrument :**
FID_D
**ClientSampleId :**
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048729.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 10:39
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.194 | 4.161 | 4.251 | BV | 1968987 | 17620031 | 96.02% | 5.288% |
| 2 | 5.713 | 5.598 | 5.941 | BB | 1911565 | 18349853 | 100.00% | 5.507% |
| 3 | 6.761 | 6.718 | 6.871 | VV | 1752861 | 17920924 | 97.66% | 5.378% |
| 4 | 7.373 | 7.304 | 7.451 | BV | 1649420 | 16279710 | 88.72% | 4.886% |
| 5 | 8.028 | 7.964 | 8.065 | VV | 1662481 | 18165782 | 99.00% | 5.452% |
| 6 | 8.224 | 8.168 | 8.283 | PV | 1055066 | 10978429 | 59.83% | 3.295% |
| 7 | 8.324 | 8.283 | 8.441 | VB | 1619247 | 17712560 | 96.53% | 5.316% |
| 8 | 9.102 | 9.018 | 9.258 | BB | 1516197 | 17936029 | 97.74% | 5.383% |
| 9 | 10.490 | 10.358 | 10.528 | PV | 1445226 | 17155776 | 93.49% | 5.148% |
| 10 | 10.567 | 10.528 | 10.620 | VV | 1455857 | 17179222 | 93.62% | 5.156% |
| 11 | 11.261 | 11.131 | 11.351 | BV | 1503276 | 17593385 | 95.88% | 5.280% |
| 12 | 12.296 | 12.248 | 12.401 | PV | 1287669 | 16826726 | 91.70% | 5.050% |
| 13 | 12.590 | 12.538 | 12.616 | PV | 1284099 | 16685708 | 90.93% | 5.007% |
| 14 | 14.460 | 14.411 | 14.478 | BV | 1066457 | 15682702 | 85.47% | 4.706% |
| 15 | 14.507 | 14.478 | 14.658 | VV | 1184558 | 15579339 | 84.90% | 4.675% |
| 16 | 16.009 | 15.961 | 16.024 | BV | 870846 | 14749238 | 80.38% | 4.426% |
| 17 | 16.047 | 16.024 | 16.154 | VB | 1095885 | 14449844 | 78.75% | 4.336% |
| 18 | 16.387 | 16.285 | 16.452 | PV | 935309 | 13748521 | 74.92% | 4.126% |
| 19 | 17.753 | 17.701 | 17.766 | BV | 775079 | 12754859 | 69.51% | 3.828% |
| 20 | 17.793 | 17.766 | 17.948 | VV | 889008 | 12899293 | 70.30% | 3.871% |
| 21 | 18.010 | 17.948 | 18.091 | PV | 765798 | 12951117 | 70.58% | 3.887% |
| | | | Sum of corrected areas: | | | 333219047 | | |

Aromatic EPH 111424.M Fri Nov 15 02:36:20 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048730.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:15
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 14 12:44:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 4) S 2-Bromonaphthalene (S... | 7.368 | 8283088 | 49.443 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 98.89% |
| 6) S 2-Flurobiphenyl (SURR) | 8.218 | 5559238 | 49.762 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = | 99.52% |
| 11) S ortho-Terphenyl (SURR) | 11.254 | 8996437 | 49.602 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 99.20% |
| Target Compounds | | | |
| 1) T 1,2,3-Trimethylbenzen... | 4.190 | 8939308 | 49.545 ug/ml |
| 2) T Naphthalene (C11.7) | 5.708 | 9328622 | 49.636 ug/ml |
| 3) T 2-Methylnaphthalene (... | 6.755 | 9099861 | 49.602 ug/ml |
| 5) T Acenaphthylene (C15.06) | 8.022 | 9189135 | 49.619 ug/ml |
| 7) T Acenaphthene (C15.5) | 8.317 | 9040771 | 49.602 ug/ml |
| 8) T Flouorene (C16.55) | 9.095 | 9136727 | 49.698 ug/ml |
| 9) T Phenanthrene (C19.36) | 10.482 | 8716439 | 49.634 ug/ml |
| 10) T Anthracene (C19.43) | 10.558 | 8726580 | 49.328 ug/ml |
| 12) T Fluoranthene (C21.85) | 12.287 | 8602468 | 49.648 ug/ml |
| 13) T Pyrene (C20.8) | 12.581 | 8542740 | 49.836 ug/ml |
| 14) T Benzo[a]anthracene (C... | 14.450 | 8014439 | 49.821 ug/ml |
| 15) T Chrysene (C27.41) | 14.494 | 8069480 | 49.496 ug/ml |
| 16) T benzo[b]fluoranthene ... | 15.999 | 7563737 | 49.702 ug/ml |
| 17) T Bnezo[k]fluoranthene ... | 16.034 | 7564689 | 49.676 ug/ml |
| 18) T Benzo[a]pyrene (C31.34) | 16.375 | 7116324 | 49.763 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren... | 17.740 | 6332404 | 50.151 ug/ml |
| 20) T Dibenz[a,h]anthracene... | 17.778 | 6967880 | 49.424 ug/ml |
| 21) T Benzo[g,h,i]perylene ... | 17.993 | 6744596 | 49.749 ug/ml |

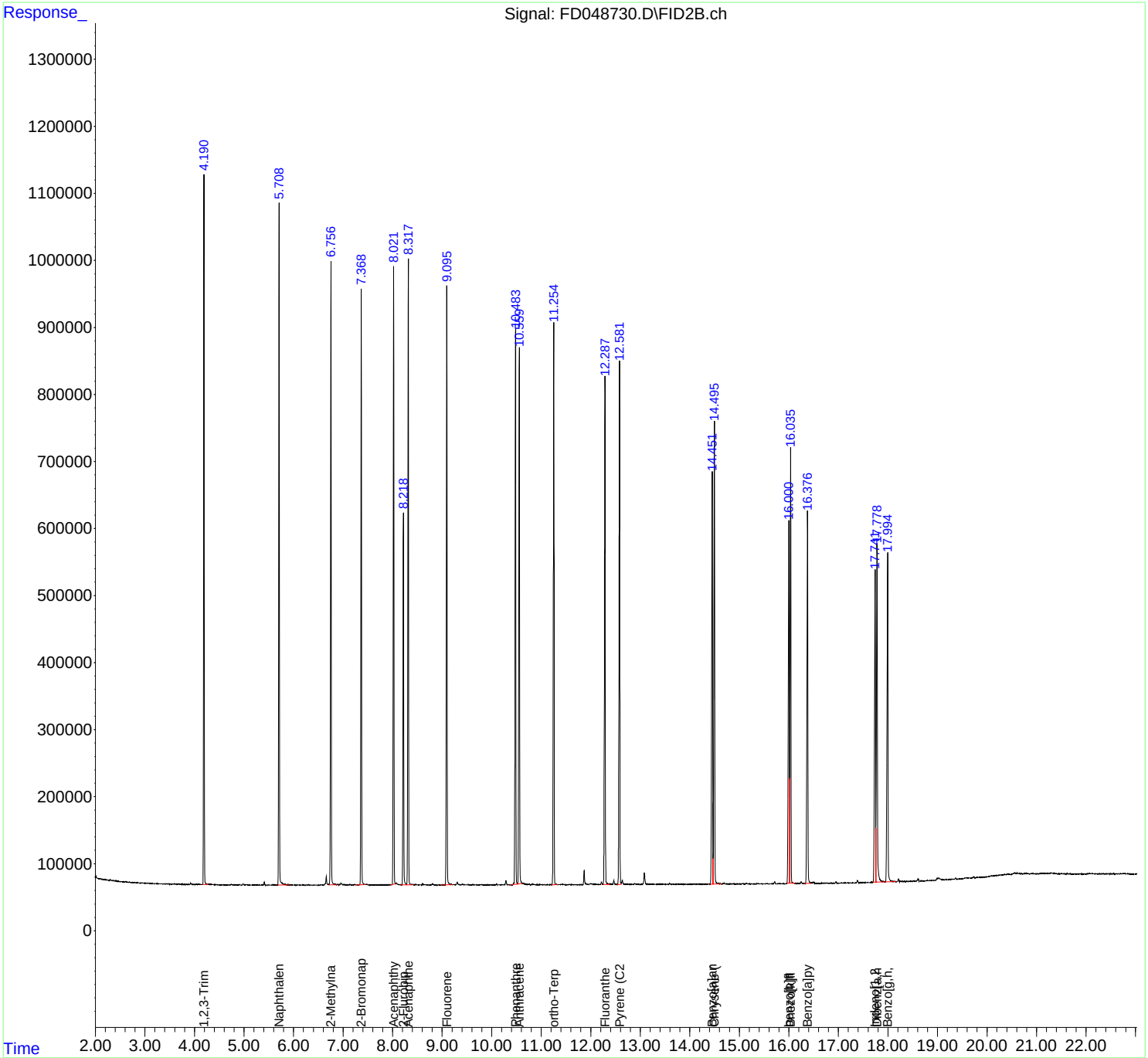
(f)=RT Delta > 1/2 Window (m)=manual int.

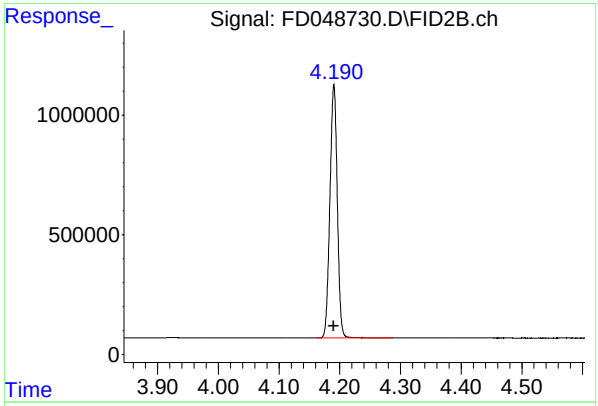
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048730.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:15
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 14 12:44:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

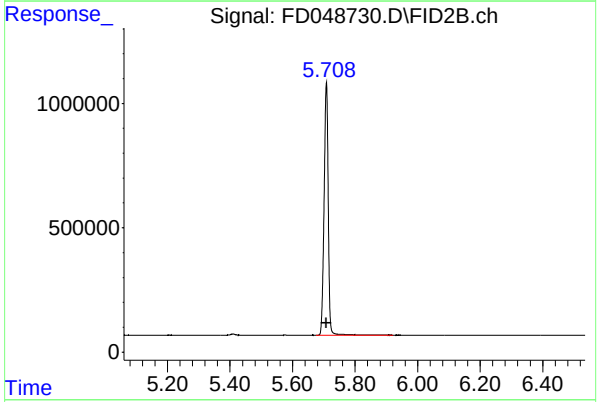





#1 1,2,3-Trimethylbenzene (C10.1)

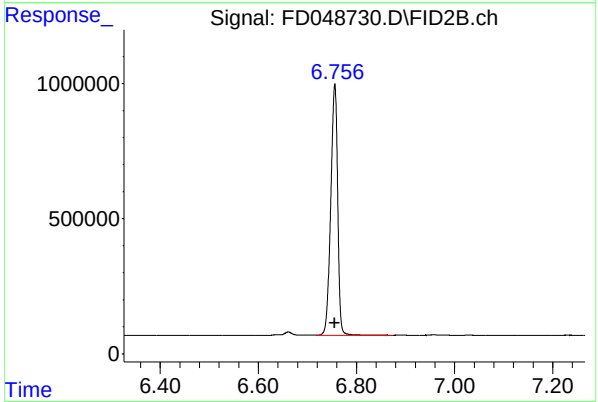
R.T.: 4.190 min
Delta R.T.: 0.000 min
Response: 8939308
Conc: 49.55 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
50 PPM AROMATIC HC STD2



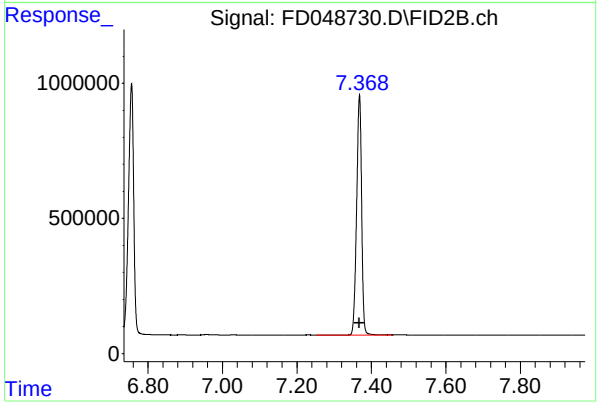

#2 Naphthalene (C11.7)

R.T.: 5.708 min
Delta R.T.: 0.000 min
Response: 9328622
Conc: 49.64 ug/ml



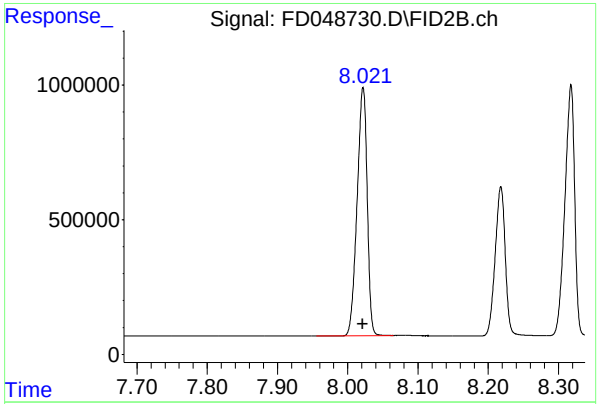

#3 2-Methylnaphthalene (C12.89)

R.T.: 6.755 min
Delta R.T.: 0.000 min
Response: 9099861
Conc: 49.60 ug/ml




#4 2-Bromonaphthalene (SURR)

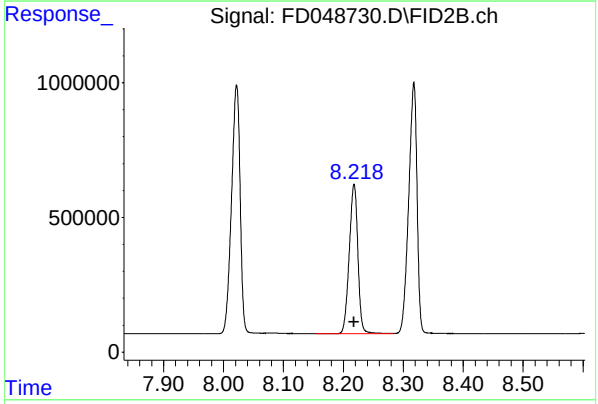
R.T.: 7.368 min
Delta R.T.: 0.000 min
Response: 8283088
Conc: 49.44 ug/ml




#5 Acenaphthylene (C15.06)

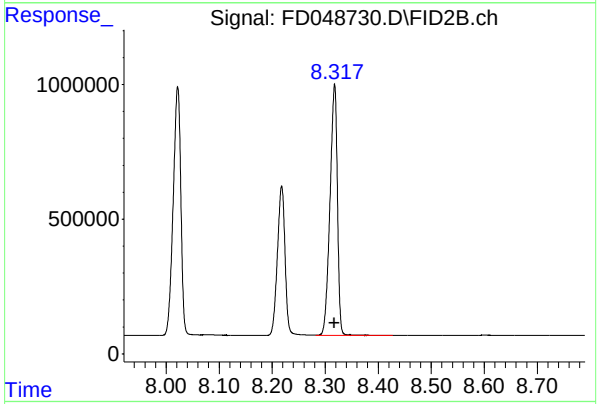
R.T.: 8.022 min
Delta R.T.: 0.000 min
Response: 9189135
Conc: 49.62 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
50 PPM AROMATIC HC STD2



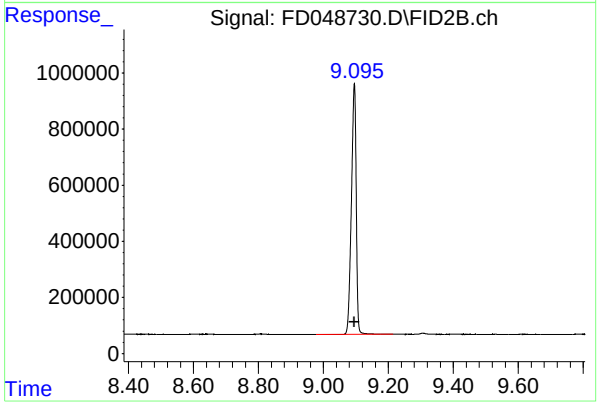

#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 5559238
Conc: 49.76 ug/ml



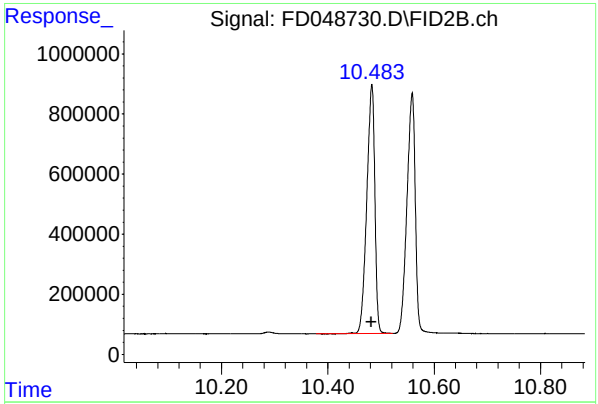

#7 Acenaphthene (C15.5)

R.T.: 8.317 min
Delta R.T.: 0.000 min
Response: 9040771
Conc: 49.60 ug/ml




#8 Flouorene (C16.55)

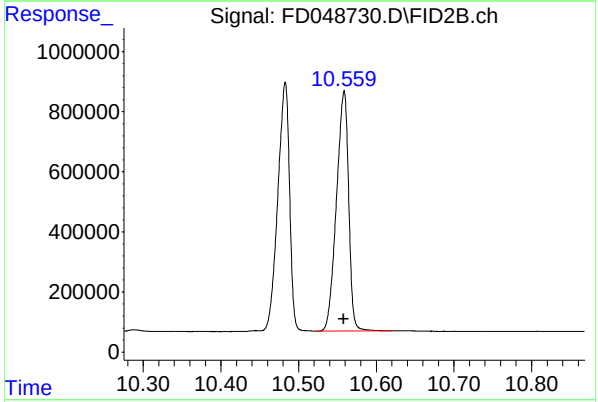
R.T.: 9.095 min
Delta R.T.: 0.000 min
Response: 9136727
Conc: 49.70 ug/ml




#9 Phenanthrene (C19.36)

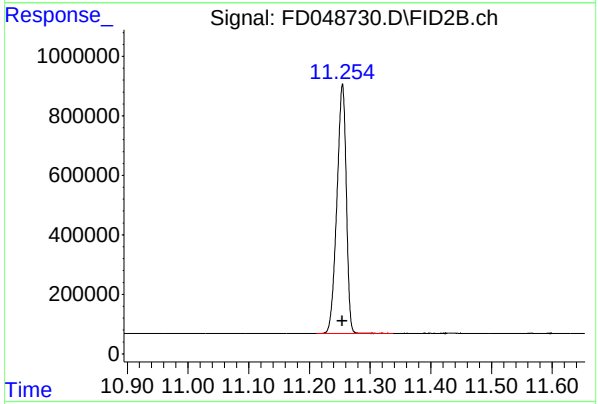
R.T.: 10.482 min
Delta R.T.: 0.000 min
Response: 8716439
Conc: 49.63 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
50 PPM AROMATIC HC STD2



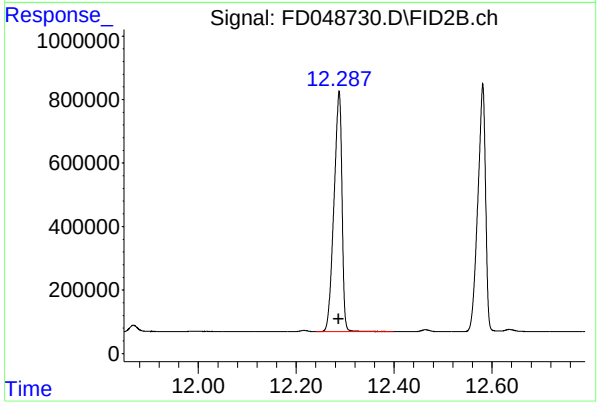

#10 Anthracene (C19.43)

R.T.: 10.558 min
Delta R.T.: 0.000 min
Response: 8726580
Conc: 49.33 ug/ml



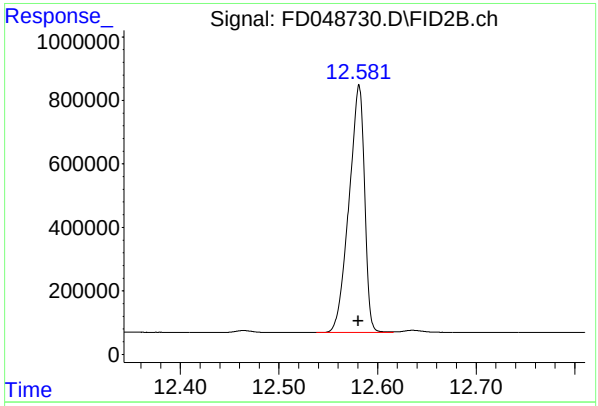

#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: 0.000 min
Response: 8996437
Conc: 49.60 ug/ml




#12 Fluoranthene (C21.85)

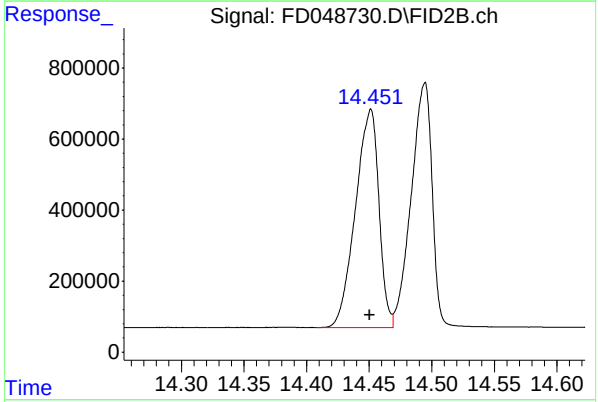
R.T.: 12.287 min
Delta R.T.: 0.000 min
Response: 8602468
Conc: 49.65 ug/ml




#13 Pyrene (C20.8)

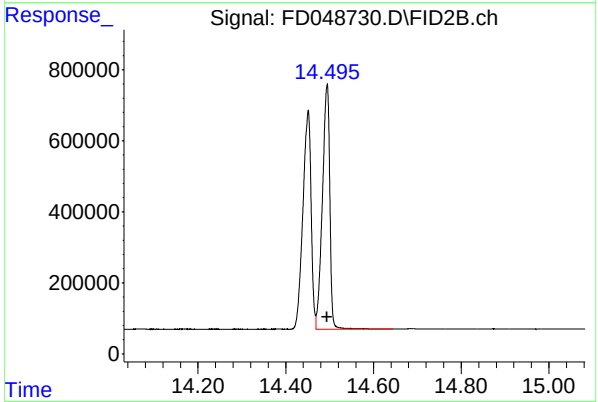
R.T.: 12.581 min
Delta R.T.: 0.000 min
Response: 8542740
Conc: 49.84 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
50 PPM AROMATIC HC STD2



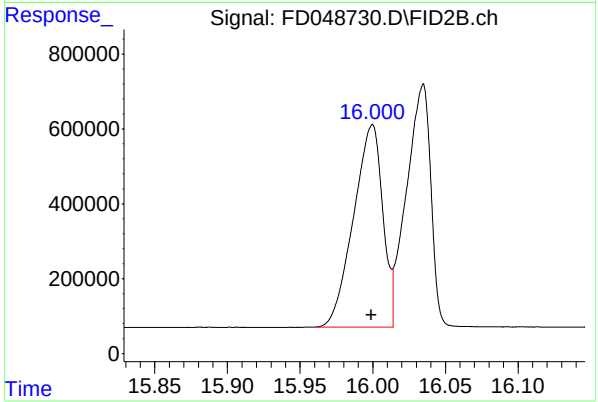

#14 Benzo[a]anthracene (C26.37)

R.T.: 14.450 min
Delta R.T.: 0.000 min
Response: 8014439
Conc: 49.82 ug/ml



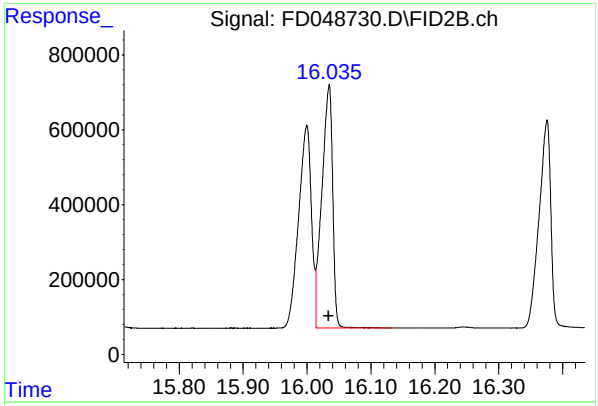

#15 Chrysene (C27.41)

R.T.: 14.494 min
Delta R.T.: 0.000 min
Response: 8069480
Conc: 49.50 ug/ml




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

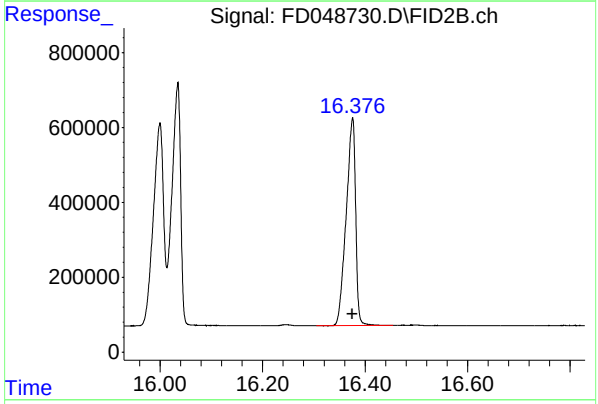
R.T.: 15.999 min
Delta R.T.: 0.000 min
Response: 7563737
Conc: 49.70 ug/ml




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

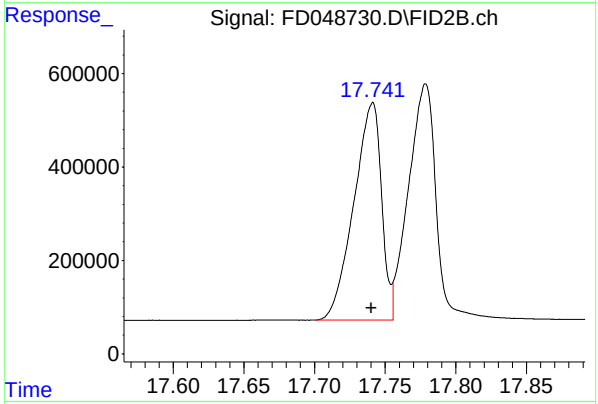
R.T.: 16.034 min
Delta R.T.: 0.000 min
Response: 7564689
Conc: 49.68 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
50 PPM AROMATIC HC STD2



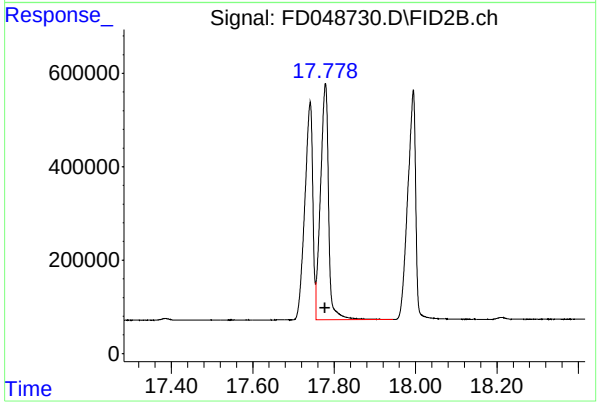

#18 Benzo[a]pyrene (C31.34)

R.T.: 16.375 min
Delta R.T.: 0.000 min
Response: 7116324
Conc: 49.76 ug/ml



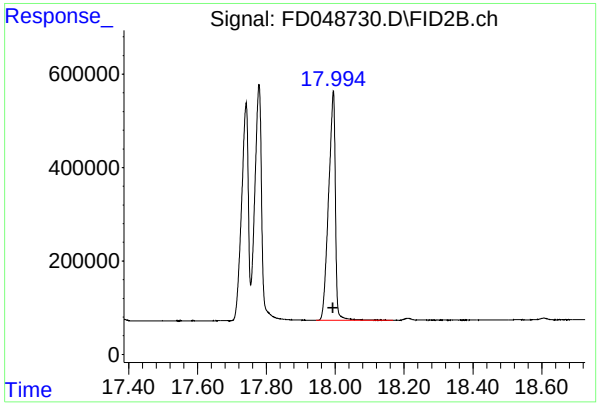

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.740 min
Delta R.T.: 0.000 min
Response: 6332404
Conc: 50.15 ug/ml




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

R.T.: 17.778 min
Delta R.T.: 0.000 min
Response: 6967880
Conc: 49.42 ug/ml




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

R.T.: 17.993 min
Delta R.T.: 0.000 mi
Response: 6744596
Conc: 49.75 ug/m

**Instrument :**
FID_D
**ClientSampleId :**
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048730.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:15
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.190 | 4.161 | 4.288 | BB | 1058435 | 8939308 | 95.83% | 5.242% |
| 2 | 5.708 | 5.675 | 5.921 | PB | 1013202 | 9328622 | 100.00% | 5.470% |
| 3 | 6.756 | 6.718 | 6.874 | VV | 916108 | 9099861 | 97.55% | 5.336% |
| 4 | 7.368 | 7.251 | 7.458 | PV | 886378 | 8283088 | 88.79% | 4.857% |
| 5 | 8.022 | 7.955 | 8.064 | PV | 921926 | 9189135 | 98.50% | 5.388% |
| 6 | 8.218 | 8.154 | 8.283 | BV | 555239 | 5559238 | 59.59% | 3.260% |
| 7 | 8.317 | 8.283 | 8.428 | VB | 936635 | 9040771 | 96.91% | 5.301% |
| 8 | 9.095 | 8.978 | 9.214 | BV | 884094 | 9136727 | 97.94% | 5.358% |
| 9 | 10.482 | 10.378 | 10.522 | BV | 814217 | 8716439 | 93.44% | 5.111% |
| 10 | 10.558 | 10.522 | 10.621 | VV | 794255 | 8726580 | 93.55% | 5.117% |
| 11 | 11.254 | 11.211 | 11.338 | BB | 838716 | 8996437 | 96.44% | 5.275% |
| 12 | 12.287 | 12.241 | 12.398 | PB | 761177 | 8602468 | 92.22% | 5.044% |
| 13 | 12.581 | 12.538 | 12.616 | BV | 781058 | 8542740 | 91.58% | 5.009% |
| 14 | 14.450 | 14.408 | 14.469 | BV | 616472 | 8014439 | 85.91% | 4.700% |
| 15 | 14.494 | 14.469 | 14.644 | VB | 694071 | 8069480 | 86.50% | 4.732% |
| 16 | 15.999 | 15.961 | 16.014 | BV | 535600 | 7563737 | 81.08% | 4.435% |
| 17 | 16.034 | 16.014 | 16.134 | VB | 652251 | 7564689 | 81.09% | 4.436% |
| 18 | 16.375 | 16.304 | 16.454 | BV | 549270 | 7116324 | 76.28% | 4.173% |
| 19 | 17.740 | 17.701 | 17.755 | BV | 468119 | 6332404 | 67.88% | 3.713% |
| 20 | 17.778 | 17.755 | 17.944 | VV | 504433 | 6967880 | 74.69% | 4.086% |
| 21 | 17.993 | 17.944 | 18.168 | VV | 496008 | 6744596 | 72.30% | 3.955% |
| | | | Sum of corrected areas: | | | 170534960 | | |

Aromatic EPH 111424.M Fri Nov 15 02:36:53 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048731.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:51
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 14 12:40:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.365 | 3482492 | 20.000 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.00% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.215 | 2283559 | 20.000 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 40.00% |
| 11) S | ortho-Terphenyl (SURR) | 11.250 | 3765042 | 20.000 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.00% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.189 | 3725913 | 20.000 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.706 | 3875111 | 20.000 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.752 | 3783290 | 20.000 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.018 | 3802878 | 20.000 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.312 | 3777137 | 20.000 ug/ml |
| 8) T | Flouorene (C16.55) | 9.091 | 3788895 | 20.000 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.478 | 3619123 | 20.000 ug/ml |
| 10) T | Anthracene (C19.43) | 10.553 | 3688027 | 20.000 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.282 | 3589859 | 20.000 ug/ml |
| 13) T | Pyrene (C20.8) | 12.574 | 3530762 | 20.000 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.443 | 3309617 | 20.000 ug/ml |
| 15) T | Chrysene (C27.41) | 14.485 | 3438362 | 20.000 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 15.990 | 3155598 | 20.000 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.022 | 3220964 | 20.000 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.366 | 2984019 | 20.000 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.730 | 2492029 | 20.000 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.770 | 3091940 | 20.000 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.980 | 2846208 | 20.000 ug/ml |

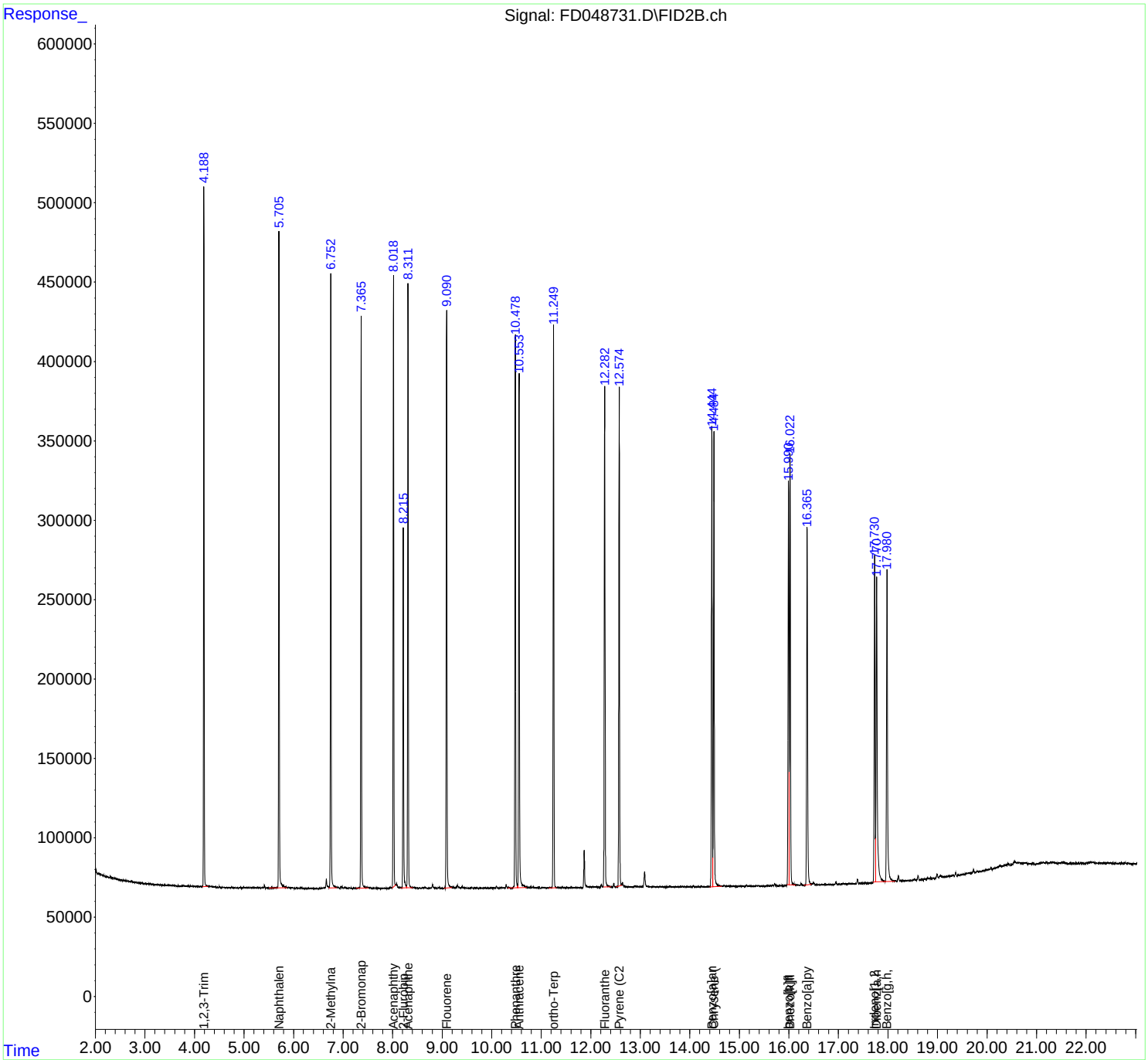
(f)=RT Delta > 1/2 Window (m)=manual int.

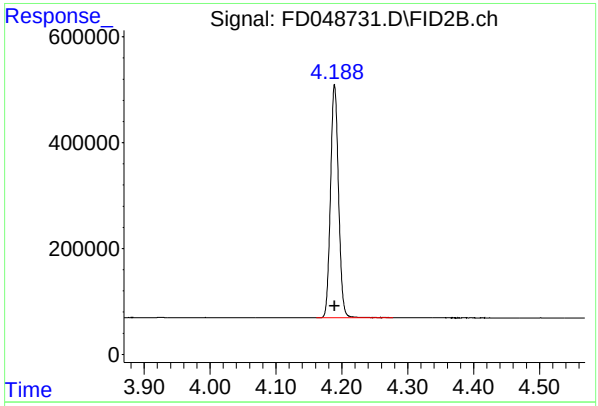
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048731.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:51
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 14 12:40:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

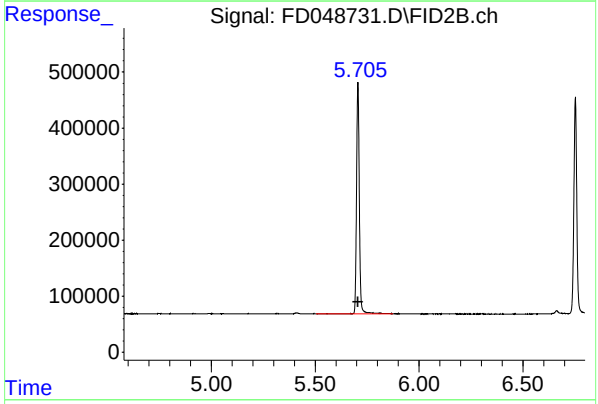





#1 1,2,3-Trimethylbenzene (C10.1)

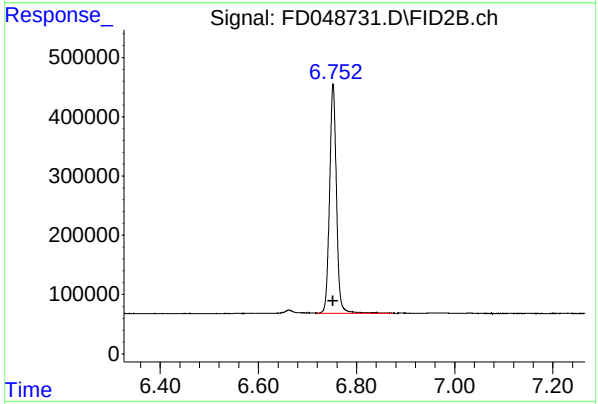
R.T.: 4.189 min
Delta R.T.: 0.000 min
Response: 3725913
Conc: 20.00 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD3



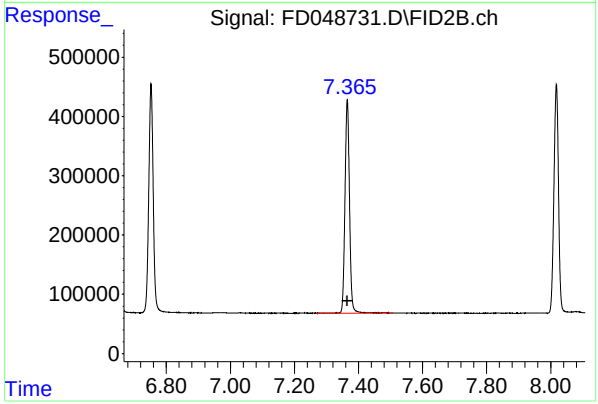

#2 Naphthalene (C11.7)

R.T.: 5.706 min
Delta R.T.: 0.000 min
Response: 3875111
Conc: 20.00 ug/ml



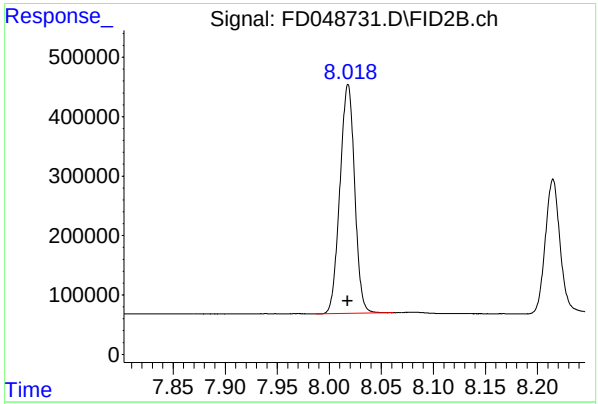

#3 2-Methylnaphthalene (C12.89)

R.T.: 6.752 min
Delta R.T.: 0.000 min
Response: 3783290
Conc: 20.00 ug/ml




#4 2-Bromonaphthalene (SURR)

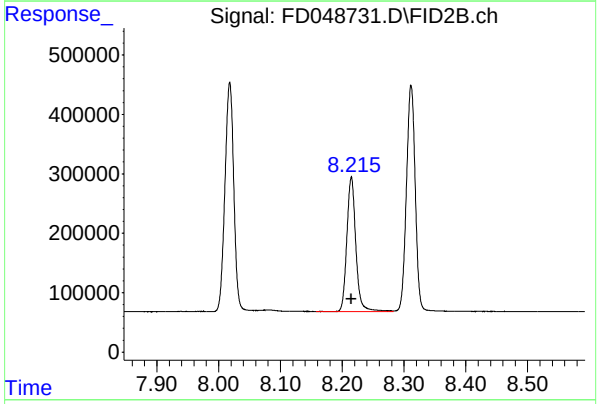
R.T.: 7.365 min
Delta R.T.: 0.000 min
Response: 3482492
Conc: 20.00 ug/ml




#5 Acenaphthylene (C15.06)

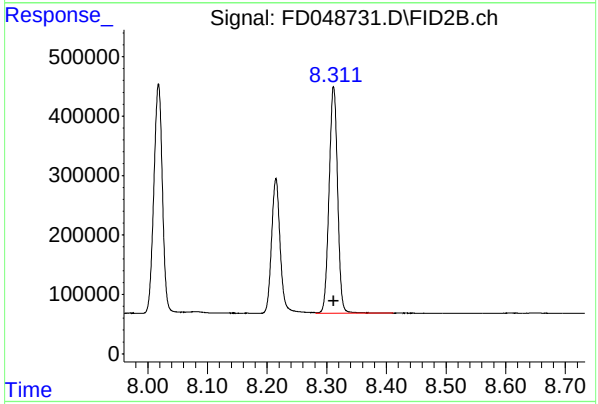
R.T.: 8.018 min
Delta R.T.: 0.000 min
Response: 3802878
Conc: 20.00 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD3



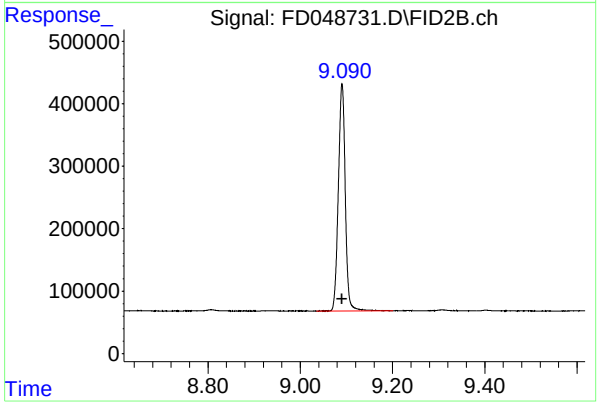

#6 2-Flurobiphenyl (SURR)

R.T.: 8.215 min
Delta R.T.: 0.000 min
Response: 2283559
Conc: 20.00 ug/ml



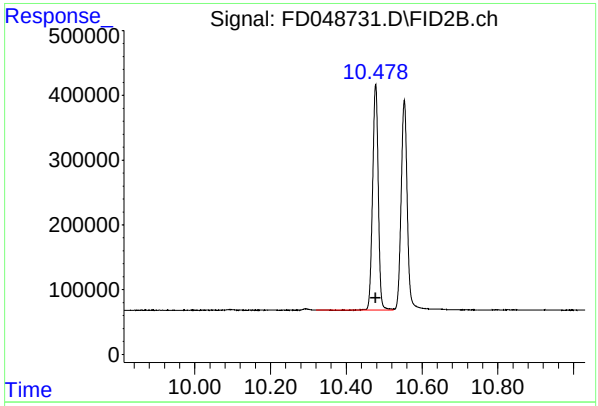

#7 Acenaphthene (C15.5)

R.T.: 8.312 min
Delta R.T.: 0.000 min
Response: 3777137
Conc: 20.00 ug/ml




#8 Flouorene (C16.55)

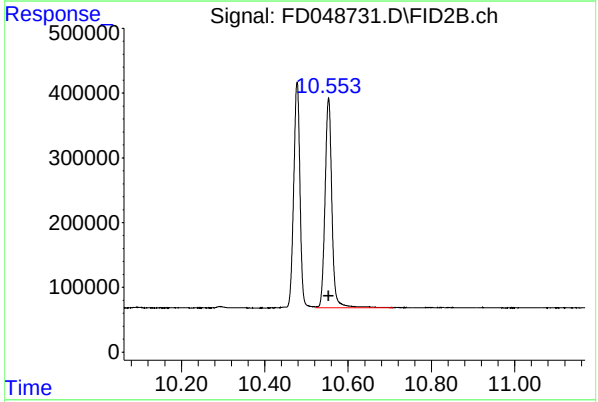
R.T.: 9.091 min
Delta R.T.: 0.000 min
Response: 3788895
Conc: 20.00 ug/ml




#9 Phenanthrene (C19.36)

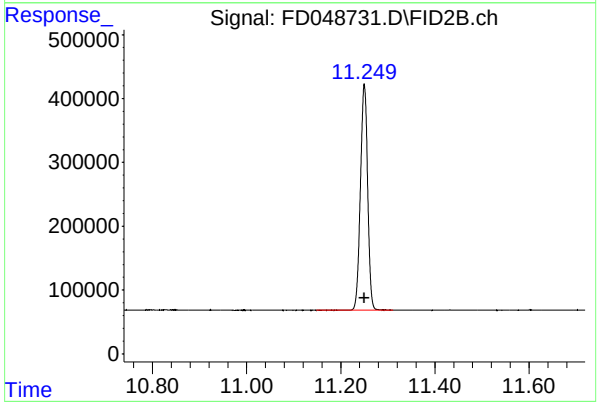
R.T.: 10.478 min
Delta R.T.: 0.000 min
Response: 3619123
Conc: 20.00 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD3



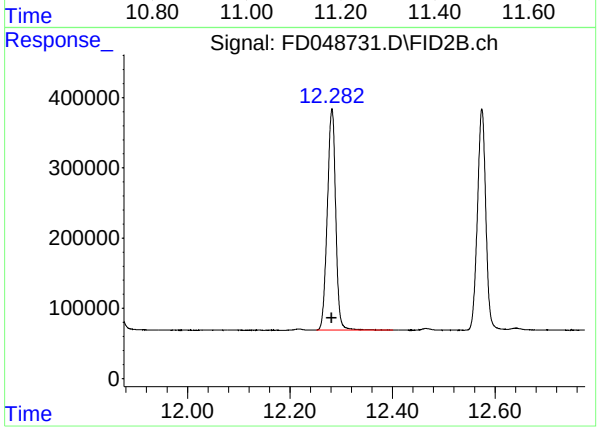

#10 Anthracene (C19.43)

R.T.: 10.553 min
Delta R.T.: 0.000 min
Response: 3688027
Conc: 20.00 ug/ml



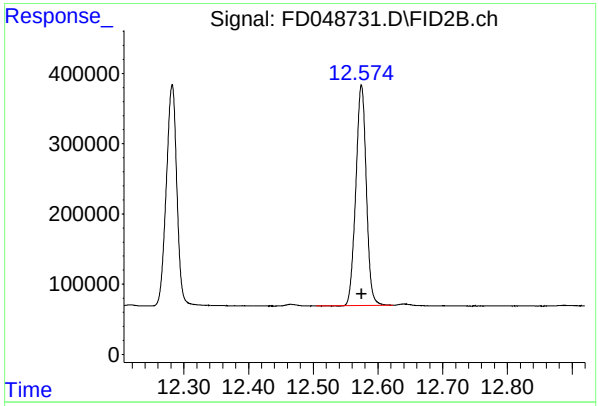

#11 ortho-Terphenyl (SURR)

R.T.: 11.250 min
Delta R.T.: 0.000 min
Response: 3765042
Conc: 20.00 ug/ml




#12 Fluoranthene (C21.85)

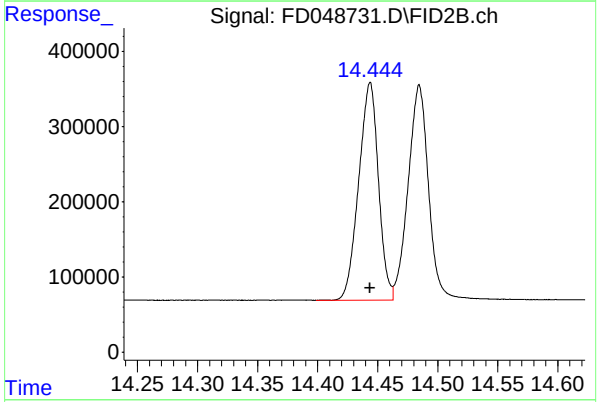
R.T.: 12.282 min
Delta R.T.: 0.000 min
Response: 3589859
Conc: 20.00 ug/ml




#13 Pyrene (C20.8)

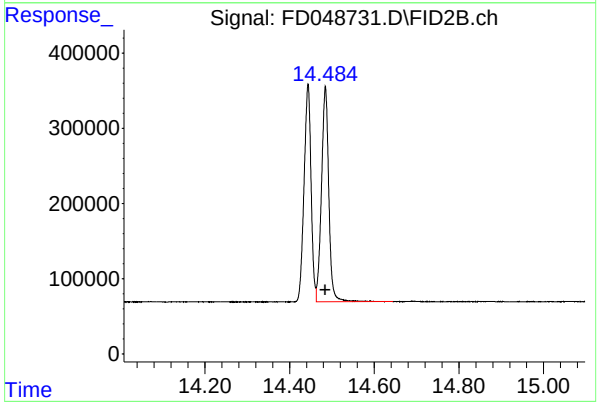
R.T.: 12.574 min
Delta R.T.: 0.000 min
Response: 3530762
Conc: 20.00 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD3



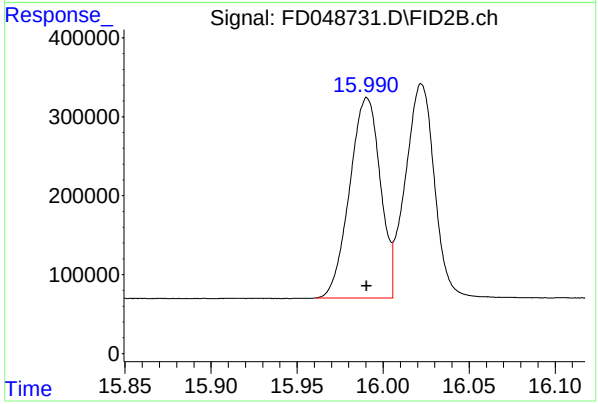

#14 Benzo[a]anthracene (C26.37)

R.T.: 14.443 min
Delta R.T.: 0.000 min
Response: 3309617
Conc: 20.00 ug/ml



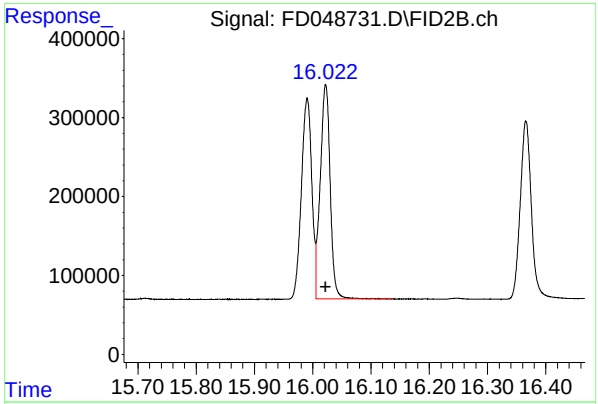

#15 Chrysene (C27.41)

R.T.: 14.485 min
Delta R.T.: 0.000 min
Response: 3438362
Conc: 20.00 ug/ml




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

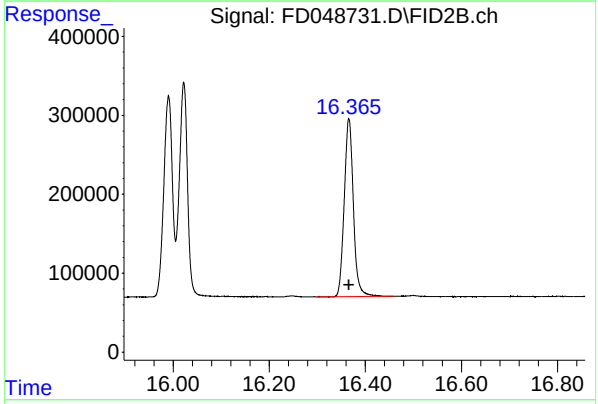
R.T.: 15.990 min
Delta R.T.: 0.000 min
Response: 3155598
Conc: 20.00 ug/ml




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

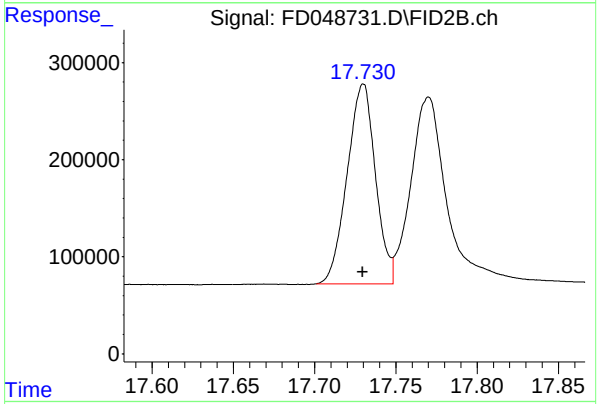
R.T.: 16.022 min
Delta R.T.: 0.000 min
Response: 3220964
Conc: 20.00 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD3



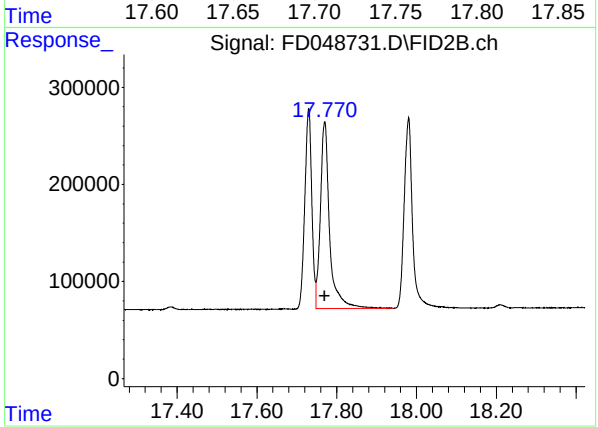

#18 Benzo[a]pyrene (C31.34)

R.T.: 16.366 min
Delta R.T.: 0.000 min
Response: 2984019
Conc: 20.00 ug/ml



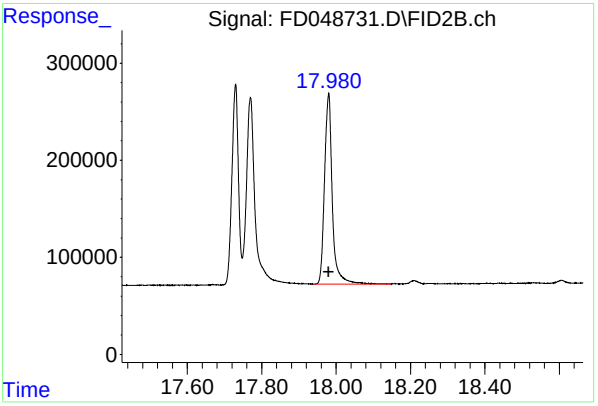

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.730 min
Delta R.T.: 0.000 min
Response: 2492029
Conc: 20.00 ug/ml




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

R.T.: 17.770 min
Delta R.T.: 0.000 min
Response: 3091940
Conc: 20.00 ug/ml




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

R.T.: 17.980 min
Delta R.T.: 0.000 mi
Response: 2846208
Conc: 20.00 ug/m

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048731.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:51
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.189 | 4.161 | 4.278 | BB | 437777 | 3725913 | 96.15% | 5.229% |
| 2 | 5.706 | 5.504 | 5.874 | BB | 410892 | 3875111 | 100.00% | 5.439% |
| 3 | 6.752 | 6.718 | 6.874 | VV | 383306 | 3783290 | 97.63% | 5.310% |
| 4 | 7.365 | 7.268 | 7.508 | BB | 358504 | 3482492 | 89.87% | 4.888% |
| 5 | 8.018 | 7.987 | 8.061 | PV | 385080 | 3802878 | 98.14% | 5.337% |
| 6 | 8.215 | 8.158 | 8.282 | BV | 225425 | 2283559 | 58.93% | 3.205% |
| 7 | 8.312 | 8.282 | 8.411 | VV | 381333 | 3777137 | 97.47% | 5.301% |
| 8 | 9.091 | 9.034 | 9.201 | BV | 364311 | 3788895 | 97.78% | 5.318% |
| 9 | 10.478 | 10.320 | 10.523 | VV | 349456 | 3619123 | 93.39% | 5.079% |
| 10 | 10.553 | 10.523 | 10.708 | VV | 325247 | 3688027 | 95.17% | 5.176% |
| 11 | 11.250 | 11.148 | 11.311 | BB | 352977 | 3765042 | 97.16% | 5.284% |
| 12 | 12.282 | 12.251 | 12.401 | PB | 314199 | 3589859 | 92.64% | 5.038% |
| 13 | 12.574 | 12.504 | 12.623 | BV | 314367 | 3530762 | 91.11% | 4.955% |
| 14 | 14.443 | 14.399 | 14.463 | PV | 291252 | 3309617 | 85.41% | 4.645% |
| 15 | 14.485 | 14.463 | 14.644 | VB | 285404 | 3438362 | 88.73% | 4.826% |
| 16 | 15.990 | 15.961 | 16.006 | BV | 254269 | 3155598 | 81.43% | 4.429% |
| 17 | 16.022 | 16.006 | 16.138 | VB | 270938 | 3220964 | 83.12% | 4.521% |
| 18 | 16.366 | 16.298 | 16.458 | BV | 225537 | 2984019 | 77.00% | 4.188% |
| 19 | 17.730 | 17.701 | 17.748 | BV | 208499 | 2492029 | 64.31% | 3.498% |
| 20 | 17.770 | 17.748 | 17.941 | VV | 193652 | 3091940 | 79.79% | 4.340% |
| 21 | 17.980 | 17.941 | 18.148 | VB | 198480 | 2846208 | 73.45% | 3.995% |
| | | | Sum of corrected areas: | | | 71250824 | | |

Aromatic EPH 111424.M Fri Nov 15 02:37:36 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048732.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 12:27
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
10 PPM AROMATIC HC STD4

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 13:17:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 13:17:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.365 | 1863801 | 10.821 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 21.64% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.215 | 1201178 | 10.554 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 21.11% |
| 11) S | ortho-Terphenyl (SURR) | 11.249 | 2040759 | 10.910 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 21.82% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.189 | 1983747 | 10.728 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.706 | 2064735 | 10.722 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.752 | 2042165 | 10.825 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.017 | 2046764 | 10.849 ug/mlm |
| 7) T | Acenaphthene (C15.5) | 8.311 | 2041539 | 10.874 ug/ml |
| 8) T | Flouorene (C16.55) | 9.090 | 2022487 | 10.732 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.476 | 1926152 | 10.709 ug/ml |
| 10) T | Anthracene (C19.43) | 10.552 | 1984238 | 10.885 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.281 | 1932115 | 10.839 ug/ml |
| 13) T | Pyrene (C20.8) | 12.574 | 1881150 | 10.713 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.443 | 1716582 | 10.495 ug/ml |
| 15) T | Chrysene (C27.41) | 14.484 | 1873731 | 11.079 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 15.988 | 1642501 | 10.583 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.019 | 1721554 | 10.948 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.368 | 1568595 | 10.709 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.732 | 1231117 | 9.811 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.772 | 1732686 | 11.625 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.981 | 1511827 | 10.839 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048732.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 12:27
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

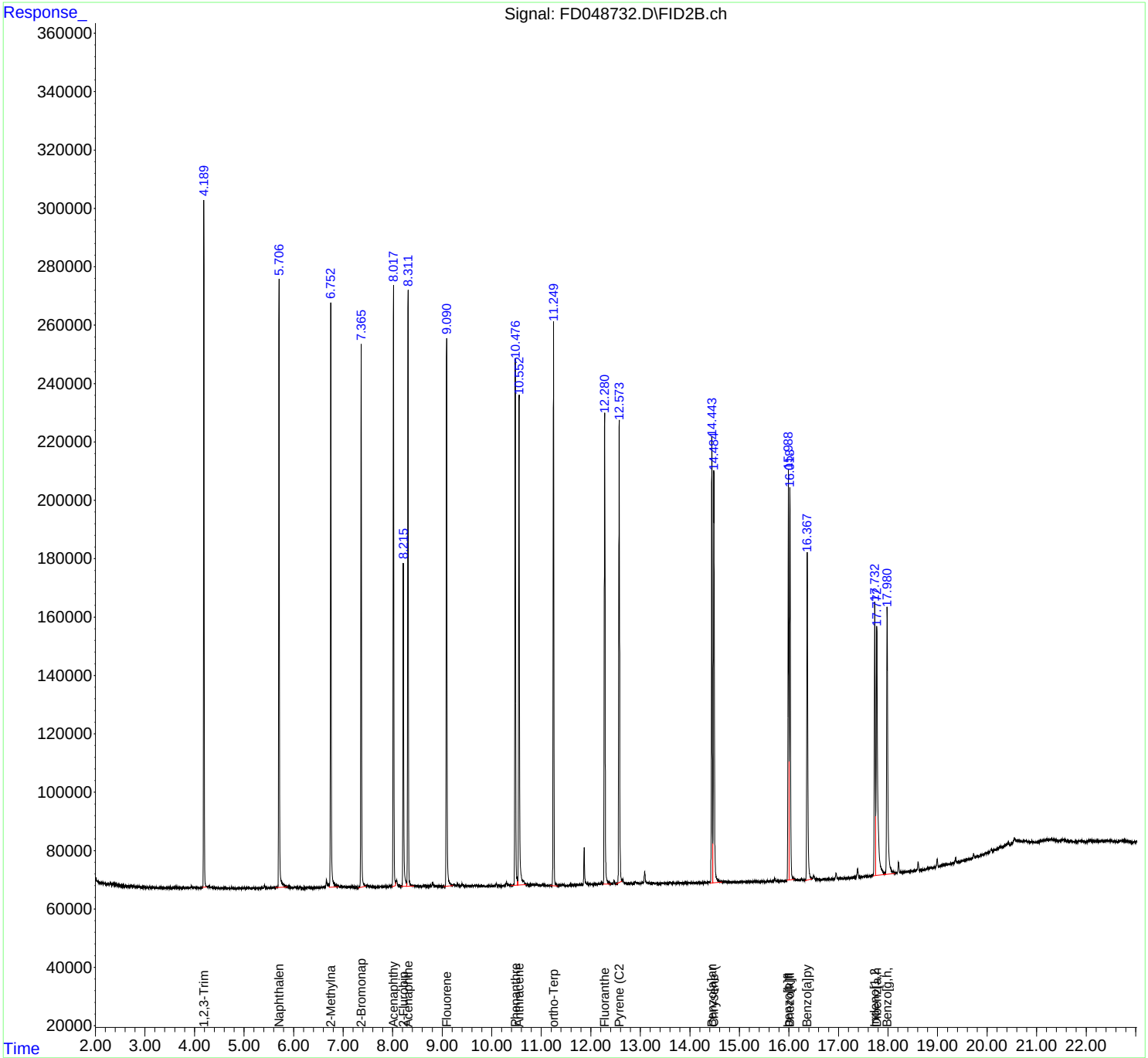
**Instrument :**
FID_D
**ClientSampleId :**
10 PPM AROMATIC HC STD4

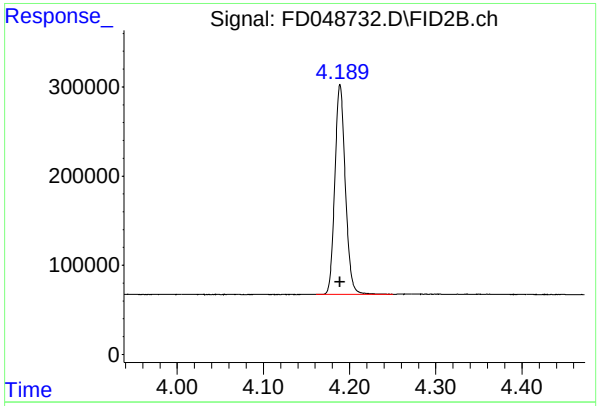
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 13:17:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 13:17:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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





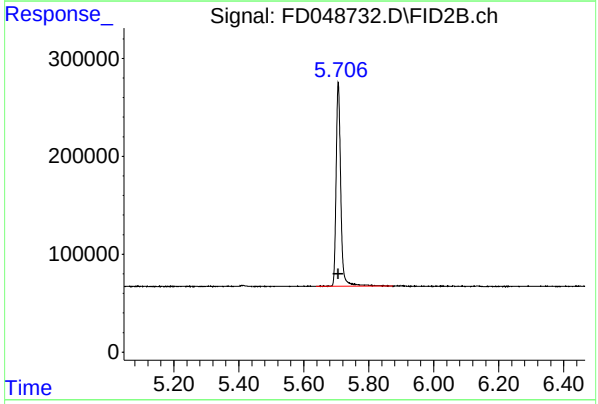

#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.189 min
Delta R.T.: 0.000 min
Response: 1983747
Conc: 10.73 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
10 PPM AROMATIC HC STD4

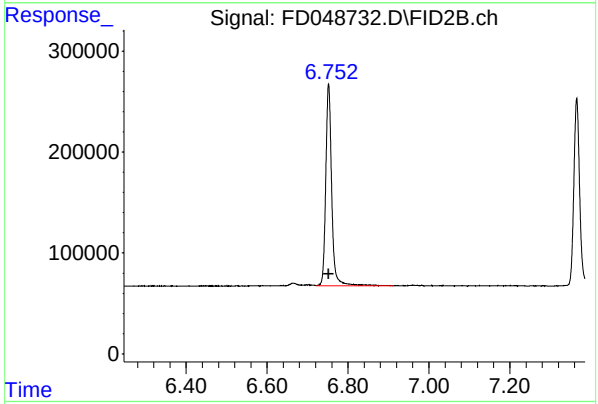
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



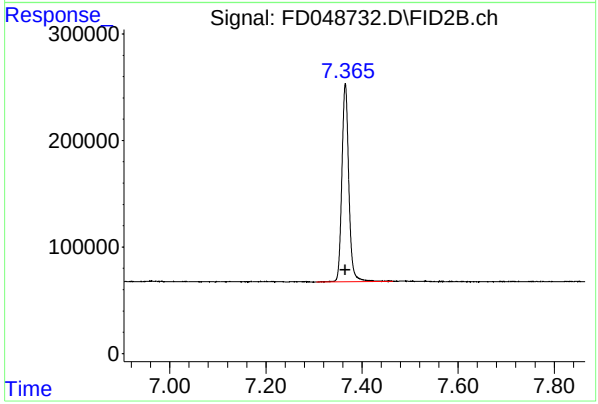

#2 Naphthalene (C11.7)

R.T.: 5.706 min
Delta R.T.: 0.000 min
Response: 2064735
Conc: 10.72 ug/ml



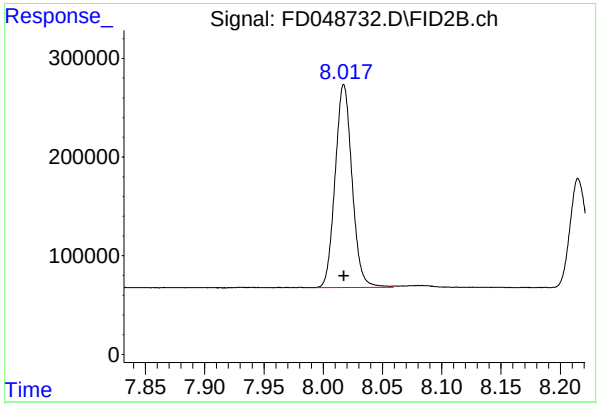

#3 2-Methylnaphthalene (C12.89)

R.T.: 6.752 min
Delta R.T.: 0.000 min
Response: 2042165
Conc: 10.83 ug/ml




#4 2-Bromonaphthalene (SURR)

R.T.: 7.365 min
Delta R.T.: 0.000 min
Response: 1863801
Conc: 10.82 ug/ml



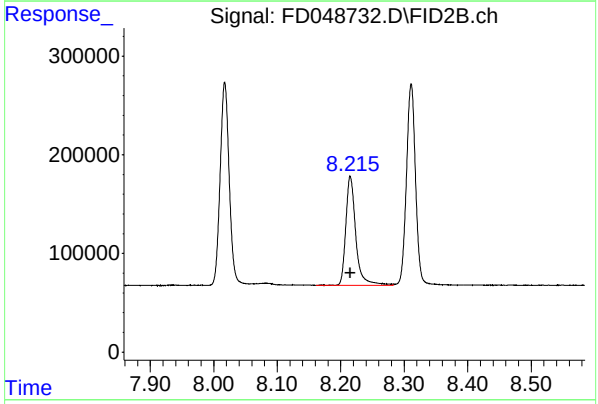

#5 Acenaphthylene (C15.06)

R.T.: 8.017 min
Delta R.T.: 0.000 min
Response: 2046764
Conc: 10.85 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
10 PPM AROMATIC HC STD4

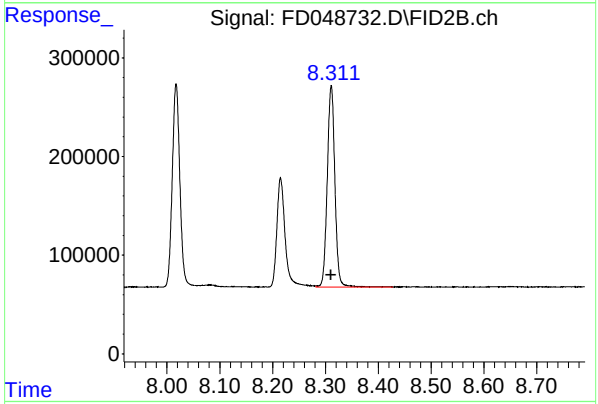
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



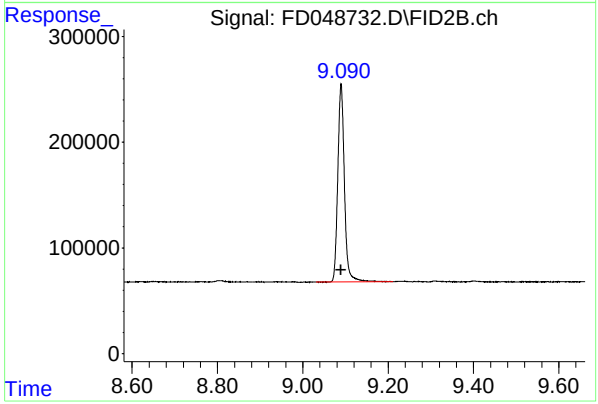

#6 2-Flurobiphenyl (SURR)

R.T.: 8.215 min
Delta R.T.: 0.000 min
Response: 1201178
Conc: 10.55 ug/ml



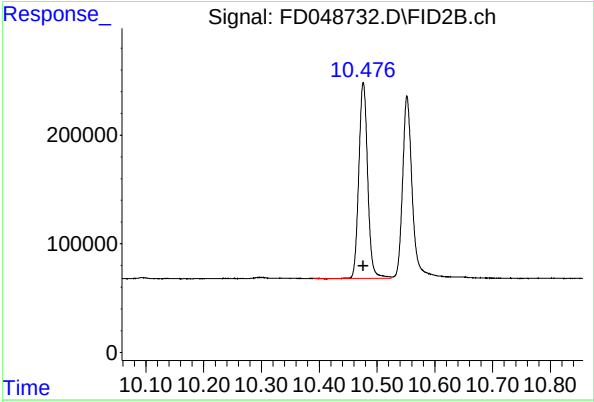

#7 Acenaphthene (C15.5)

R.T.: 8.311 min
Delta R.T.: 0.000 min
Response: 2041539
Conc: 10.87 ug/ml




#8 Flouorene (C16.55)

R.T.: 9.090 min
Delta R.T.: 0.000 min
Response: 2022487
Conc: 10.73 ug/ml



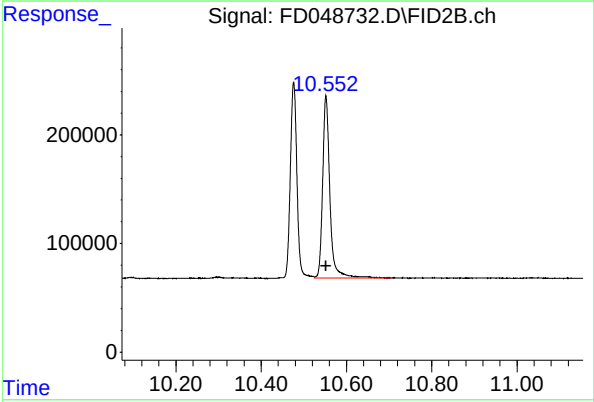

#9 Phenanthrene (C19.36)

R.T.: 10.476 min
Delta R.T.: 0.000 min
Response: 1926152
Conc: 10.71 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
10 PPM AROMATIC HC STD4

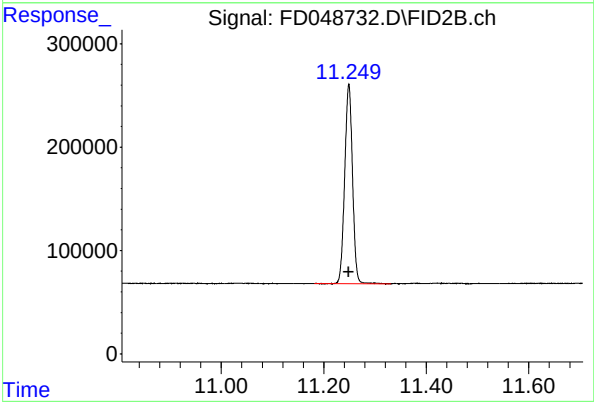
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



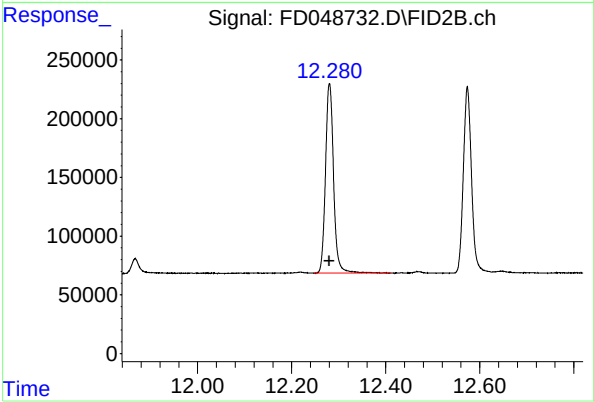

#10 Anthracene (C19.43)

R.T.: 10.552 min
Delta R.T.: 0.000 min
Response: 1984238
Conc: 10.89 ug/ml



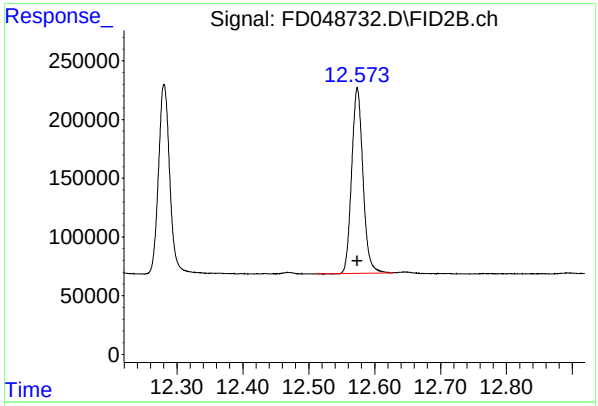

#11 ortho-Terphenyl (SURR)

R.T.: 11.249 min
Delta R.T.: 0.000 min
Response: 2040759
Conc: 10.91 ug/ml




#12 Fluoranthene (C21.85)

R.T.: 12.281 min
Delta R.T.: 0.000 min
Response: 1932115
Conc: 10.84 ug/ml



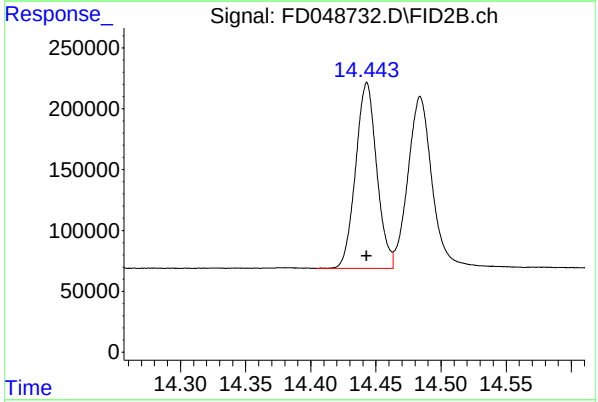

#13 Pyrene (C20.8)

R.T.: 12.574 min
Delta R.T.: 0.000 min
Response: 1881150
Conc: 10.71 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
10 PPM AROMATIC HC STD4

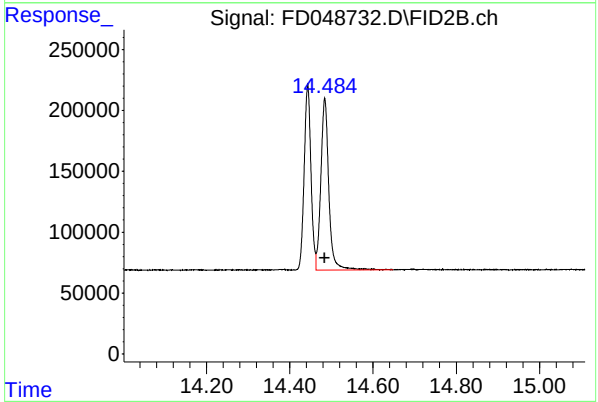
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



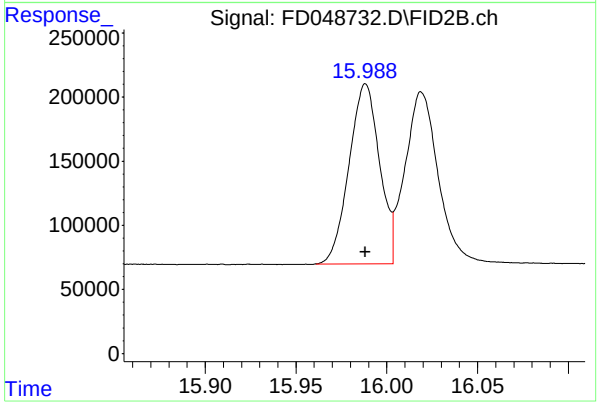

#14 Benzo[a]anthracene (C26.37)

R.T.: 14.443 min
Delta R.T.: 0.000 min
Response: 1716582
Conc: 10.49 ug/ml



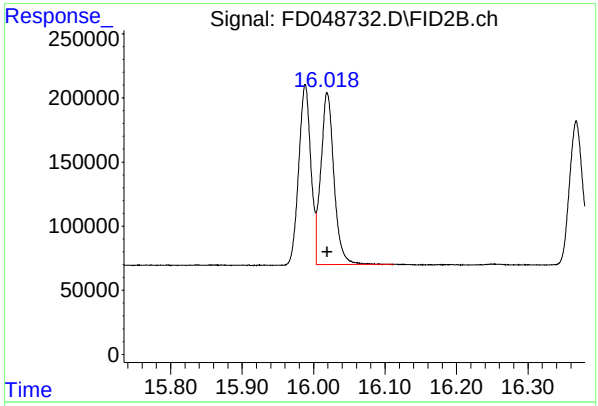

#15 Chrysene (C27.41)

R.T.: 14.484 min
Delta R.T.: 0.000 min
Response: 1873731
Conc: 11.08 ug/ml




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

R.T.: 15.988 min
Delta R.T.: 0.000 min
Response: 1642501
Conc: 10.58 ug/ml



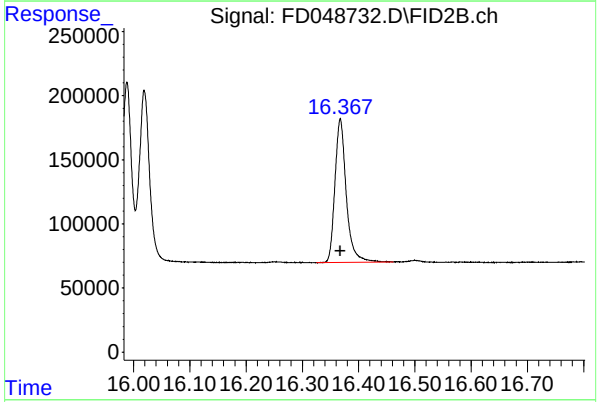

#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.019 min
Delta R.T.: 0.000 min
Response: 1721554
Conc: 10.95 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
10 PPM AROMATIC HC STD4

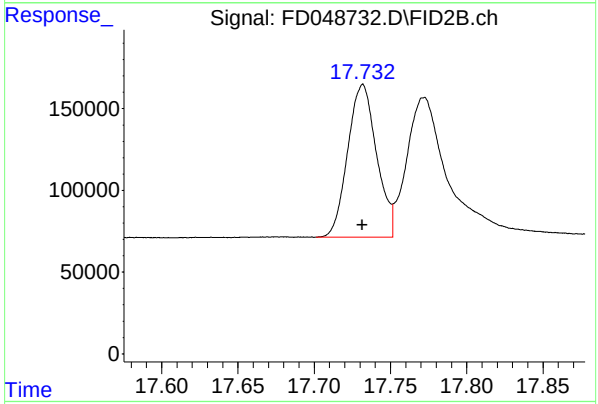
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



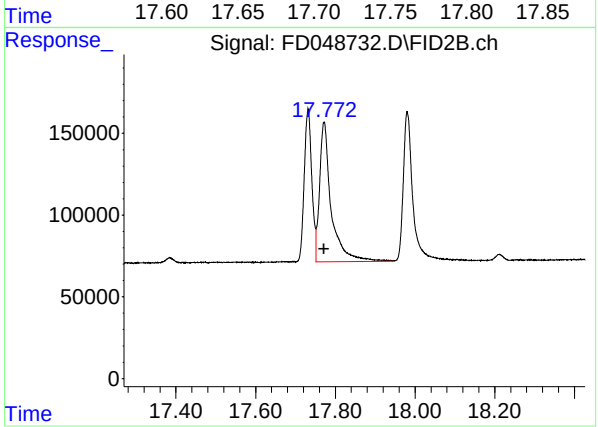

#18 Benzo[a]pyrene (C31.34)

R.T.: 16.368 min
Delta R.T.: 0.000 min
Response: 1568595
Conc: 10.71 ug/ml



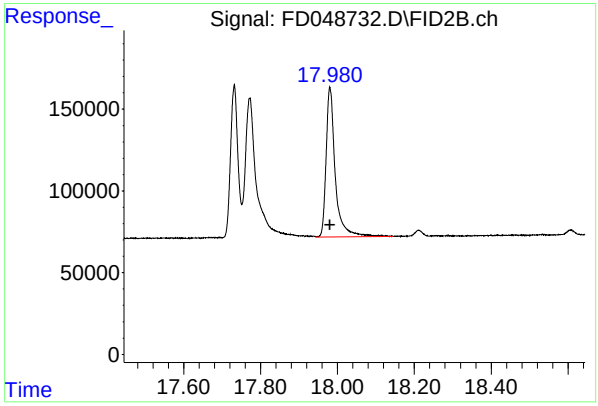

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.732 min
Delta R.T.: 0.000 min
Response: 1231117
Conc: 9.81 ug/ml




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

R.T.: 17.772 min
Delta R.T.: 0.000 min
Response: 1732686
Conc: 11.62 ug/ml




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

R.T.: 17.981 min
Delta R.T.: 0.000 mi
Response: 1511827
Conc: 10.84 ug/m

**Instrument :**
FID_D
**ClientSampleId :**
10 PPM AROMATIC HC STD4

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

**Instrument :**
FID_D
**LabSampleId :**
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11142
Data File : FD048732.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 12:27
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.189 | 4.161 | 4.250 | BV | 233609 | 1983747 | 96.08% | 5.224% |
| 2 | 5.706 | 5.638 | 5.874 | BB | 205733 | 2064735 | 100.00% | 5.437% |
| 3 | 6.752 | 6.721 | 6.911 | VB | 199787 | 2042165 | 98.91% | 5.378% |
| 4 | 7.365 | 7.304 | 7.464 | BV | 185172 | 1863801 | 90.27% | 4.908% |
| 5 | 8.017 | 7.908 | 8.058 | BV | 204705 | 1990251 | 96.39% | 5.241% |
| 6 | 8.215 | 8.161 | 8.282 | BV | 110440 | 1201178 | 58.18% | 3.163% |
| 7 | 8.311 | 8.282 | 8.428 | VB | 204004 | 2041539 | 98.88% | 5.376% |
| 8 | 9.090 | 9.031 | 9.211 | BV | 185906 | 2022487 | 97.95% | 5.326% |
| 9 | 10.476 | 10.391 | 10.524 | BV | 179662 | 1926152 | 93.29% | 5.072% |
| 10 | 10.552 | 10.524 | 10.704 | VB | 167359 | 1984238 | 96.10% | 5.225% |
| 11 | 11.249 | 11.181 | 11.331 | BB | 191260 | 2040759 | 98.84% | 5.374% |
| 12 | 12.281 | 12.248 | 12.411 | PB | 161313 | 1932115 | 93.58% | 5.088% |
| 13 | 12.574 | 12.511 | 12.628 | BV | 157685 | 1881150 | 91.11% | 4.954% |
| 14 | 14.443 | 14.404 | 14.463 | PV | 152971 | 1716582 | 83.14% | 4.521% |
| 15 | 14.484 | 14.463 | 14.648 | VB | 141132 | 1873731 | 90.75% | 4.934% |
| 16 | 15.988 | 15.961 | 16.004 | BV | 140342 | 1642501 | 79.55% | 4.325% |
| 17 | 16.019 | 16.004 | 16.111 | VB | 134248 | 1721554 | 83.38% | 4.534% |
| 18 | 16.368 | 16.324 | 16.461 | BV | 112062 | 1568595 | 75.97% | 4.131% |
| 19 | 17.732 | 17.701 | 17.752 | BV | 92959 | 1231117 | 59.63% | 3.242% |
| 20 | 17.772 | 17.752 | 17.944 | VV | 85540 | 1732686 | 83.92% | 4.563% |
| 21 | 17.981 | 17.944 | 18.144 | VB | 90909 | 1511827 | 73.22% | 3.981% |
| | | | Sum of corrected areas: | | | 37972909 | | |

Aromatic EPH 111424.M Fri Nov 15 02:38:18 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048733.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:03
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
5 PPM AROMATIC HC STD5

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 14:15:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.366 | 956649 | 5.434 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 10.87% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.218 | 602930 | 5.235 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 10.47% |
| 11) S | ortho-Terphenyl (SURR) | 11.249 | 1067441 | 5.550 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 11.10% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.191 | 1013256 | 5.376 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.708 | 1037837 | 5.307 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.754 | 1004705 | 5.257 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.018 | 1046849 | 5.401 ug/mlm |
| 7) T | Acenaphthene (C15.5) | 8.311 | 1053869 | 5.479 ug/ml |
| 8) T | Flouorene (C16.55) | 9.091 | 1027378 | 5.355 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.478 | 985284 | 5.375 ug/ml |
| 10) T | Anthracene (C19.43) | 10.555 | 1036004 | 5.532 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.283 | 1012953 | 5.532 ug/ml |
| 13) T | Pyrene (C20.8) | 12.575 | 1008015 | 5.576 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.445 | 841277 | 5.114 ug/ml |
| 15) T | Chrysene (C27.41) | 14.484 | 992963 | 5.674 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 15.991 | 823966 | 5.244 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.023 | 934929 | 5.729 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.373 | 798077 | 5.353 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.737 | 578696 | 4.685 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.779 | 939261 | 5.990 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.984 | 777679 | 5.450 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048733.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:03
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

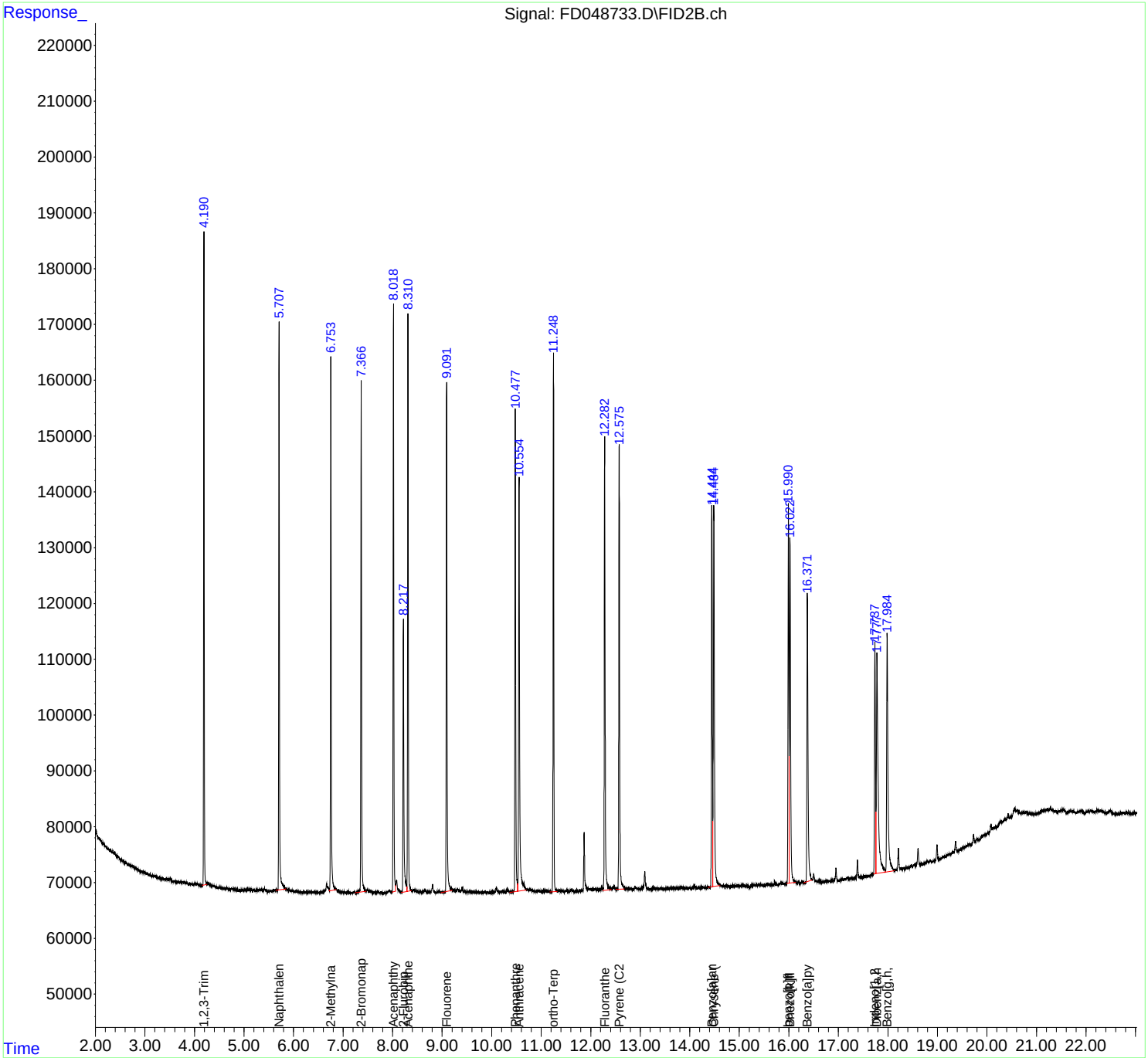
**Instrument :**
FID_D
**ClientSampleId :**
5 PPM AROMATIC HC STD5

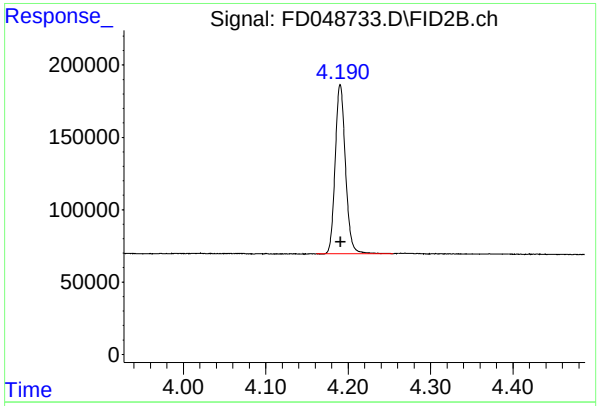
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 14:15:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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





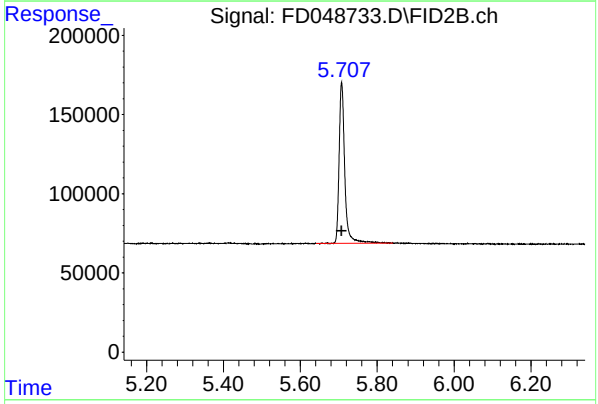

#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.191 min
Delta R.T.: 0.000 min
Response: 1013256
Conc: 5.38 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
5 PPM AROMATIC HC STD5

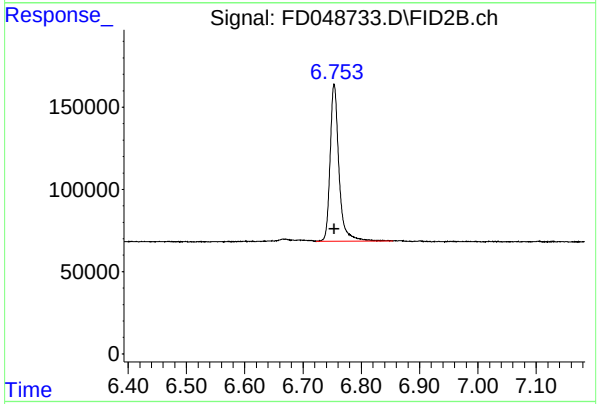
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



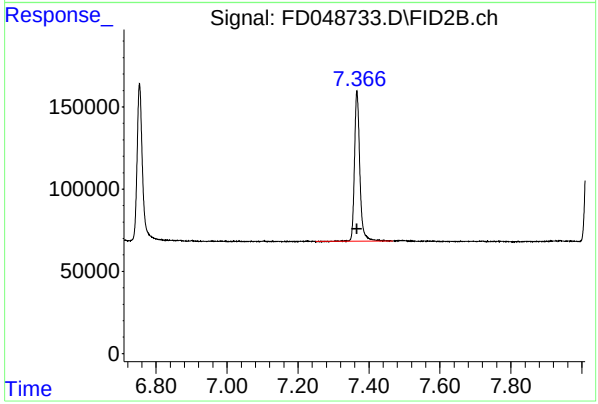

#2 Naphthalene (C11.7)

R.T.: 5.708 min
Delta R.T.: 0.000 min
Response: 1037837
Conc: 5.31 ug/ml



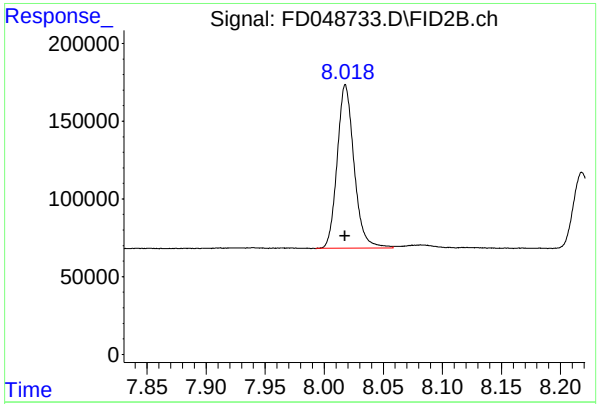

#3 2-Methylnaphthalene (C12.89)

R.T.: 6.754 min
Delta R.T.: 0.000 min
Response: 1004705
Conc: 5.26 ug/ml




#4 2-Bromonaphthalene (SURR)

R.T.: 7.366 min
Delta R.T.: 0.000 min
Response: 956649
Conc: 5.43 ug/ml



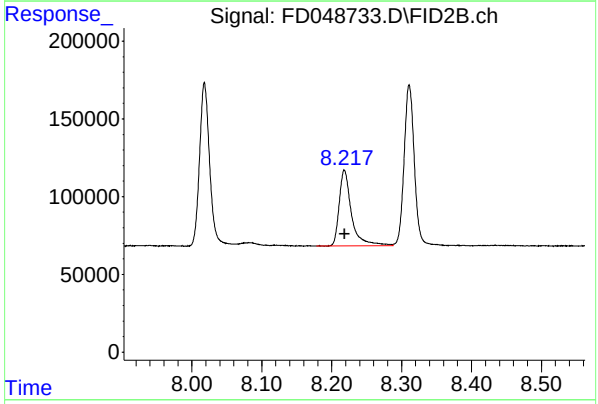

#5 Acenaphthylene (C15.06)

R.T.: 8.018 min
Delta R.T.: 0.000 min
Response: 1046849
Conc: 5.40 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
5 PPM AROMATIC HC STD5

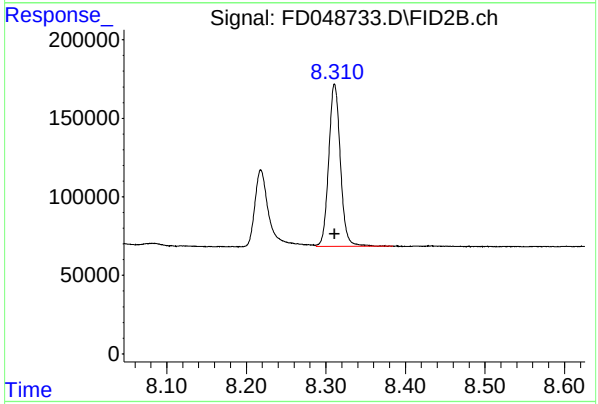
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



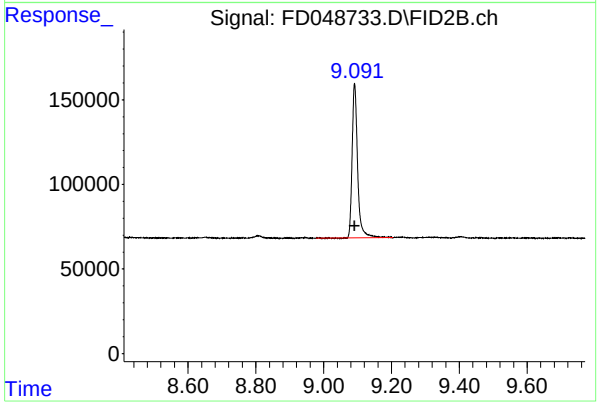

#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 602930
Conc: 5.24 ug/ml



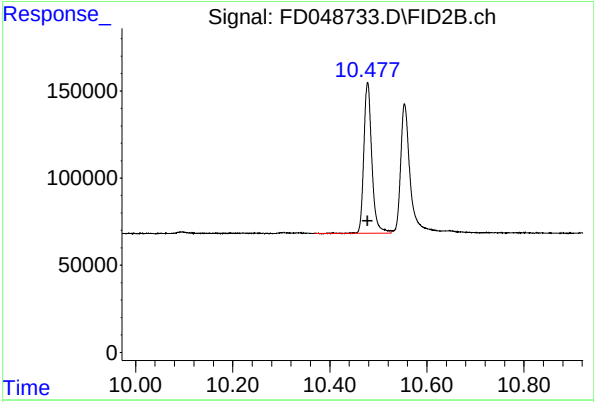

#7 Acenaphthene (C15.5)

R.T.: 8.311 min
Delta R.T.: 0.000 min
Response: 1053869
Conc: 5.48 ug/ml




#8 Flouorene (C16.55)

R.T.: 9.091 min
Delta R.T.: 0.000 min
Response: 1027378
Conc: 5.36 ug/ml



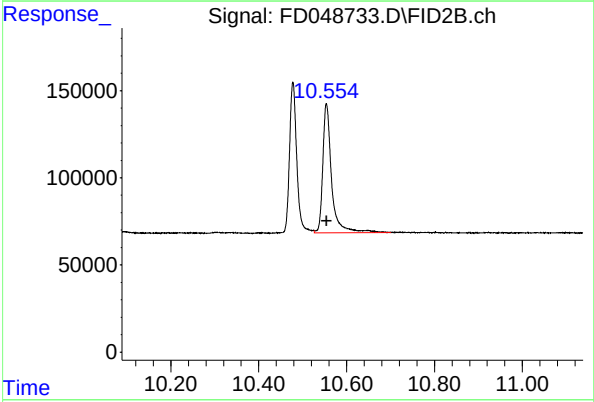

#9 Phenanthrene (C19.36)

R.T.: 10.478 min
Delta R.T.: 0.000 min
Response: 985284
Conc: 5.38 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
5 PPM AROMATIC HC STD5

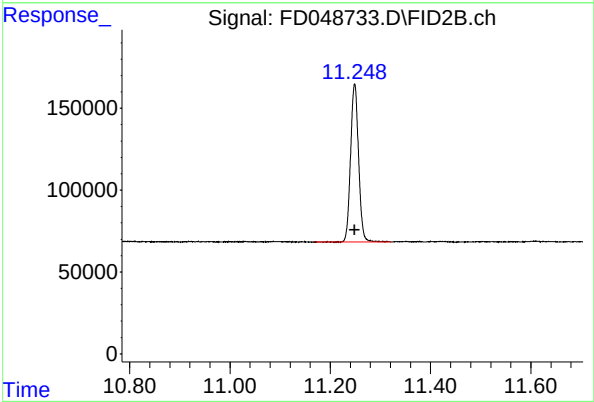
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



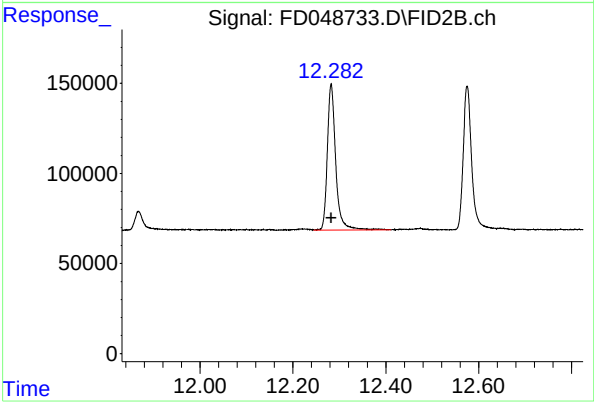

#10 Anthracene (C19.43)

R.T.: 10.555 min
Delta R.T.: 0.000 min
Response: 1036004
Conc: 5.53 ug/ml



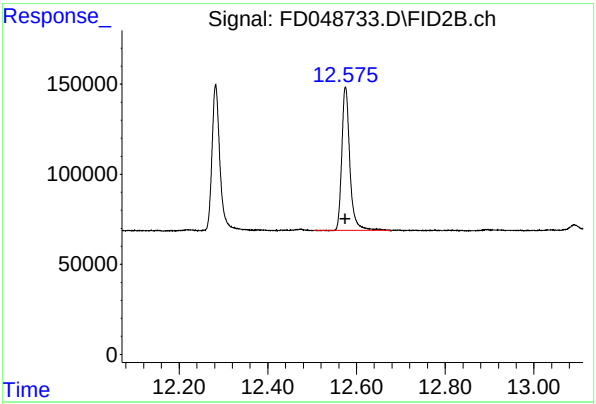

#11 ortho-Terphenyl (SURR)

R.T.: 11.249 min
Delta R.T.: 0.000 min
Response: 1067441
Conc: 5.55 ug/ml




#12 Fluoranthene (C21.85)

R.T.: 12.283 min
Delta R.T.: 0.000 min
Response: 1012953
Conc: 5.53 ug/ml



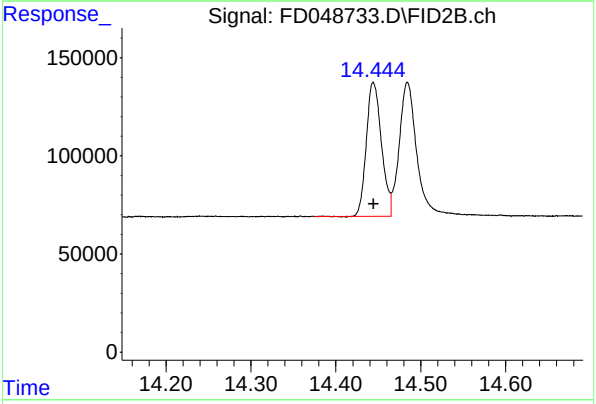

#13 Pyrene (C20.8)

R.T.: 12.575 min
Delta R.T.: 0.000 min
Response: 1008015
Conc: 5.58 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
5 PPM AROMATIC HC STD5

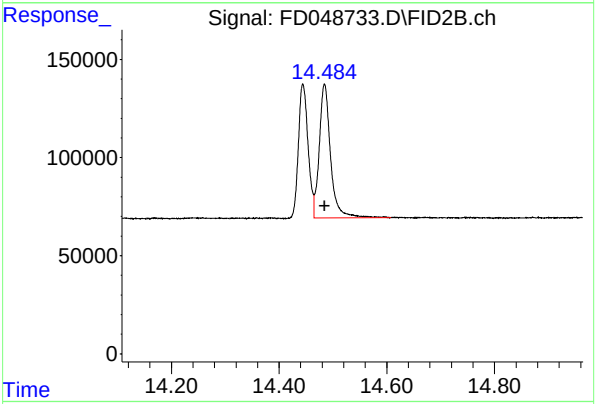
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



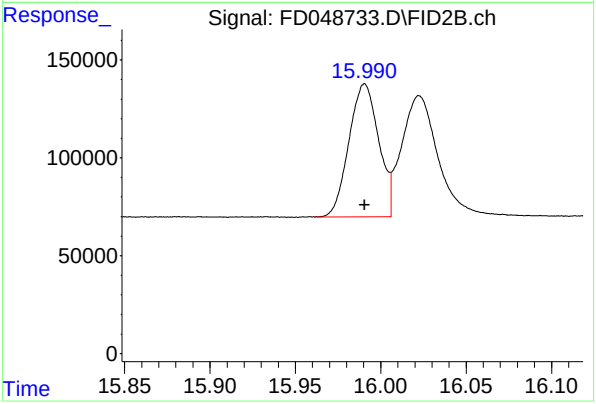

#14 Benzo[a]anthracene (C26.37)

R.T.: 14.445 min
Delta R.T.: 0.000 min
Response: 841277
Conc: 5.11 ug/ml



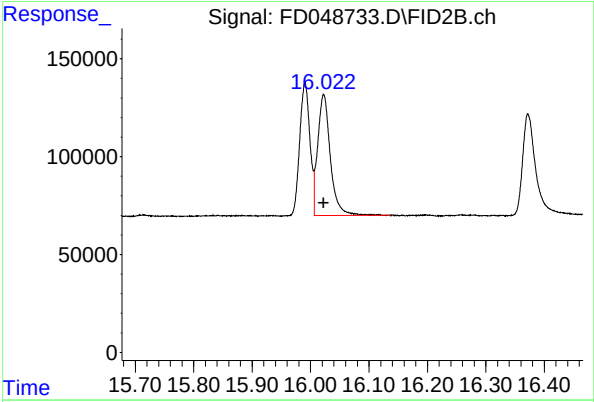

#15 Chrysene (C27.41)

R.T.: 14.484 min
Delta R.T.: 0.000 min
Response: 992963
Conc: 5.67 ug/ml




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

R.T.: 15.991 min
Delta R.T.: 0.000 min
Response: 823966
Conc: 5.24 ug/ml



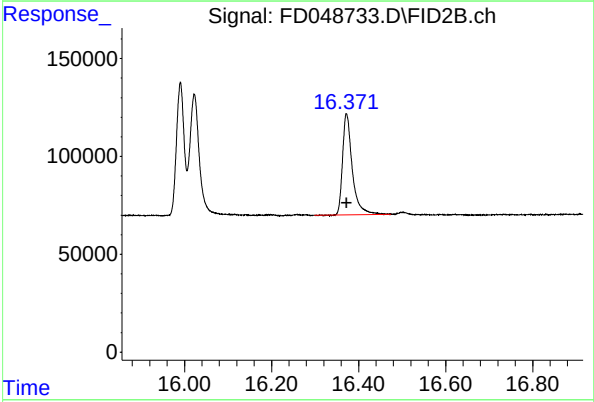

#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.023 min
Delta R.T.: 0.000 min
Response: 934929
Conc: 5.73 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
5 PPM AROMATIC HC STD5

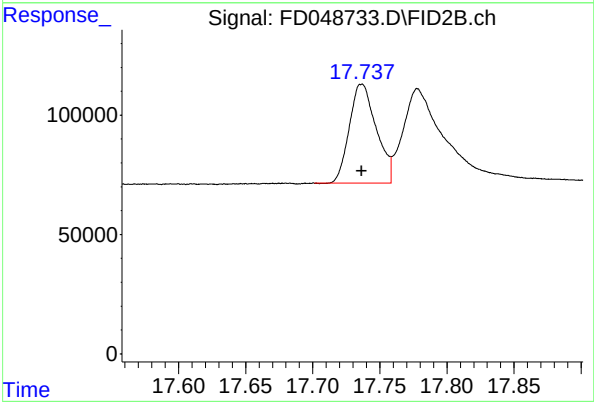
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



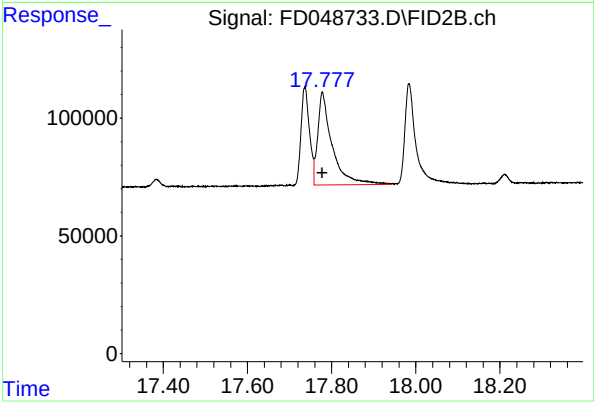

#18 Benzo[a]pyrene (C31.34)

R.T.: 16.373 min
Delta R.T.: 0.000 min
Response: 798077
Conc: 5.35 ug/ml



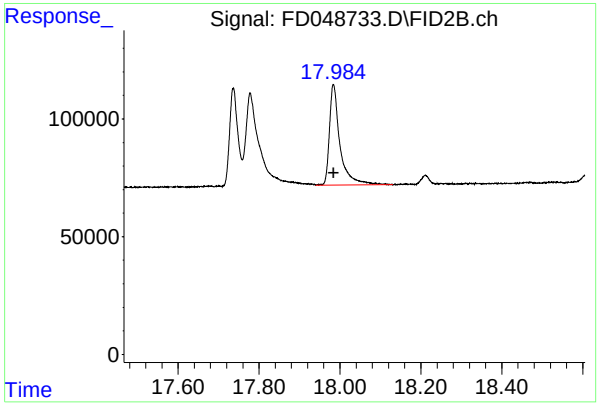

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: 0.000 min
Response: 578696
Conc: 4.68 ug/ml




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

R.T.: 17.779 min
Delta R.T.: 0.000 min
Response: 939261
Conc: 5.99 ug/ml




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

R.T.: 17.984 min
Delta R.T.: 0.000 mi
Response: 777679
Conc: 5.45 ug/m

**Instrument :**
FID_D
**ClientSampleId :**
5 PPM AROMATIC HC STD5

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

rteres

**Instrument :**
FID_D
**LabSampleId :**
5 PPM AROMATIC HC STD5

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11142
Data File : FD048733.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:03
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.191 | 4.161 | 4.254 | BV | 116503 | 1013460 | 94.97% | 5.156% |
| 2 | 5.708 | 5.468 | 5.881 | BB | 101464 | 1062095 | 99.53% | 5.404% |
| 3 | 6.754 | 6.722 | 6.888 | VV | 95110 | 1033950 | 96.89% | 5.261% |
| 4 | 7.366 | 7.254 | 7.468 | PV | 90022 | 967818 | 90.70% | 4.924% |
| 5 | 8.018 | 7.991 | 8.061 | BV | 105007 | 1055306 | 98.90% | 5.369% |
| 6 | 8.218 | 8.188 | 8.288 | BV | 48864 | 605370 | 56.73% | 3.080% |
| 7 | 8.311 | 8.288 | 8.401 | VV | 103482 | 1061536 | 99.48% | 5.401% |
| 8 | 9.091 | 9.061 | 9.204 | BV | 91282 | 1037710 | 97.25% | 5.280% |
| 9 | 10.478 | 10.423 | 10.526 | PV | 86515 | 986679 | 92.46% | 5.020% |
| 10 | 10.555 | 10.526 | 10.701 | VB | 73924 | 1038026 | 97.28% | 5.281% |
| 11 | 11.249 | 11.161 | 11.321 | BV | 96018 | 1067091 | 100.00% | 5.429% |
| 12 | 12.283 | 12.245 | 12.366 | PV | 80793 | 992105 | 92.97% | 5.048% |
| 13 | 12.575 | 12.544 | 12.678 | PV | 79897 | 1010468 | 94.69% | 5.141% |
| 14 | 14.445 | 14.410 | 14.465 | PV | 68221 | 849481 | 79.61% | 4.322% |
| 15 | 14.484 | 14.465 | 14.621 | VB | 68412 | 1002369 | 93.93% | 5.100% |
| 16 | 15.991 | 15.961 | 16.006 | BV | 68030 | 824535 | 77.27% | 4.195% |
| 17 | 16.023 | 16.006 | 16.151 | VV | 61813 | 944585 | 88.52% | 4.806% |
| 18 | 16.373 | 16.308 | 16.474 | BV | 51971 | 804914 | 75.43% | 4.095% |
| 19 | 17.737 | 17.701 | 17.758 | BV | 41491 | 578719 | 54.23% | 2.944% |
| 20 | 17.779 | 17.758 | 17.948 | VV | 39405 | 940654 | 88.15% | 4.786% |
| 21 | 17.984 | 17.948 | 18.132 | VV | 42709 | 777552 | 72.87% | 3.956% |
| | | | Sum of corrected areas: | | | 19654423 | | |

Aromatic EPH 111424.M Fri Nov 15 02:40:01 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048734.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:49
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 14 16:39:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.364 | 3456068 | 19.630 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 39.26% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.214 | 2270429 | 19.714 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 39.43% |
| 11) S | ortho-Terphenyl (SURR) | 11.250 | 3749525 | 19.495 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 38.99% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.187 | 3665797 | 19.451 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.704 | 3806037 | 19.461 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.751 | 3747892 | 19.612 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.017 | 3882404 | 20.020 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.311 | 3740654 | 19.448 ug/ml |
| 8) T | Flouorene (C16.55) | 9.090 | 3756678 | 19.581 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.477 | 3562885 | 19.437 ug/ml |
| 10) T | Anthracene (C19.43) | 10.553 | 3563171 | 19.027 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.282 | 3573927 | 19.517 ug/ml |
| 13) T | Pyrene (C20.8) | 12.575 | 3507964 | 19.403 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.445 | 3271243 | 19.886 ug/ml |
| 15) T | Chrysene (C27.41) | 14.486 | 3405535 | 19.459 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 15.991 | 3111443 | 19.803 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.022 | 3204860 | 19.638 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.367 | 2937931 | 19.705 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.731 | 2442922 | 19.776 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.771 | 3068383 | 19.567 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.981 | 2827163 | 19.814 ug/ml |

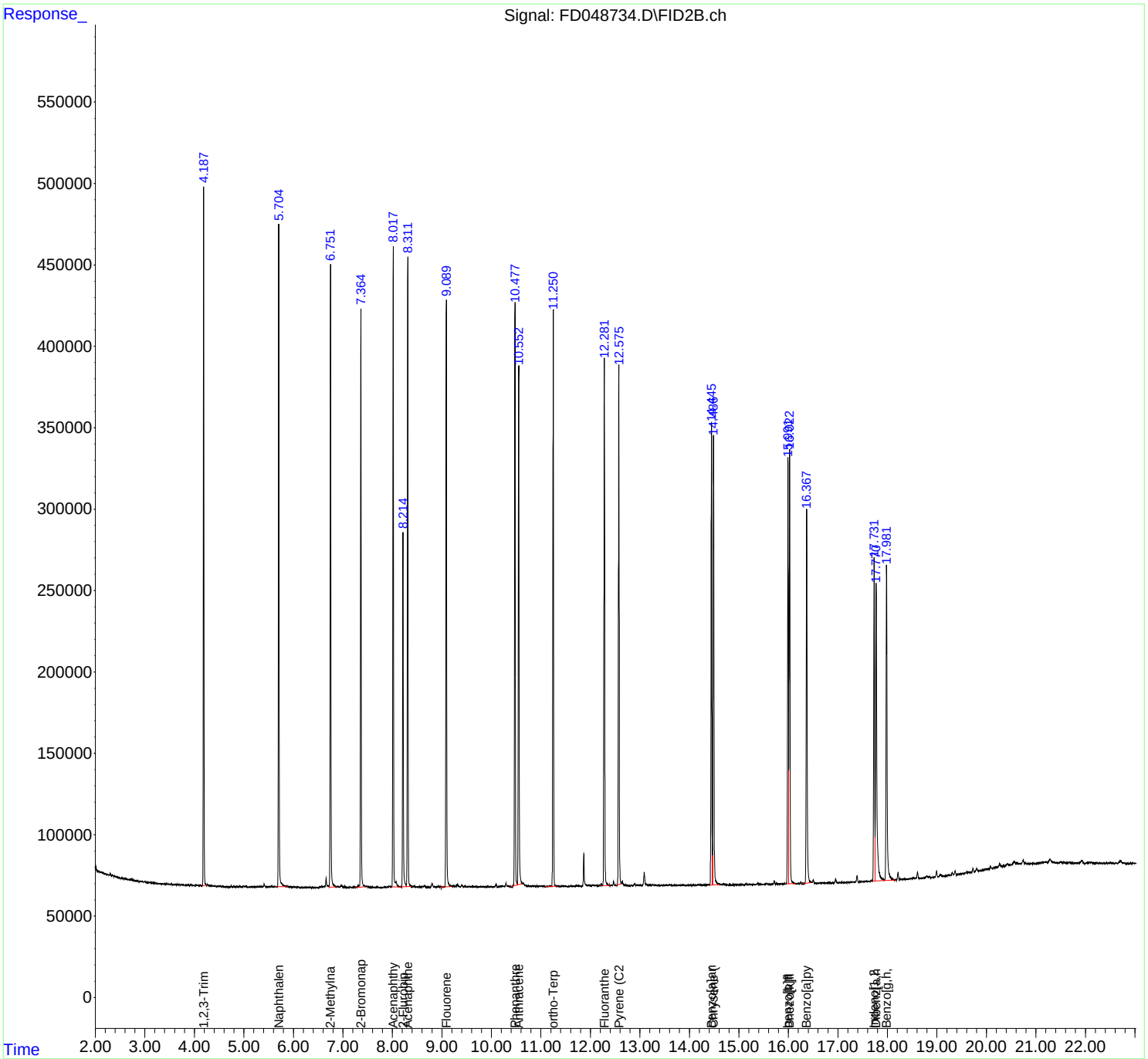
(f)=RT Delta > 1/2 Window (m)=manual int.

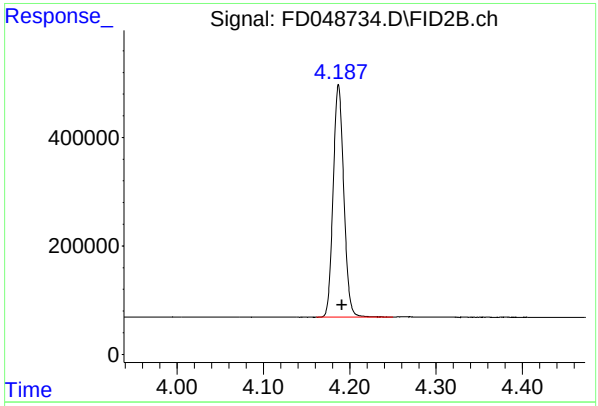
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048734.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:49
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 14 16:39:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

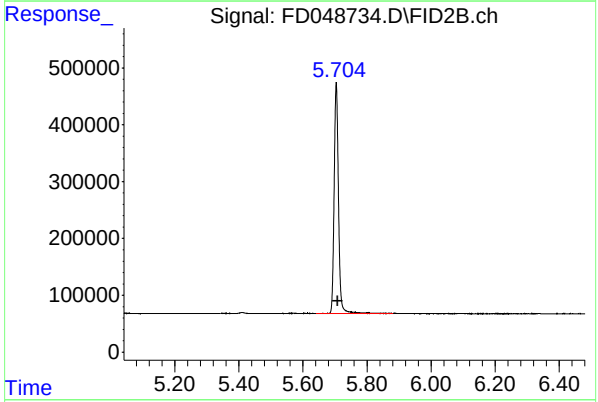





#1 1,2,3-Trimethylbenzene (C10.1)

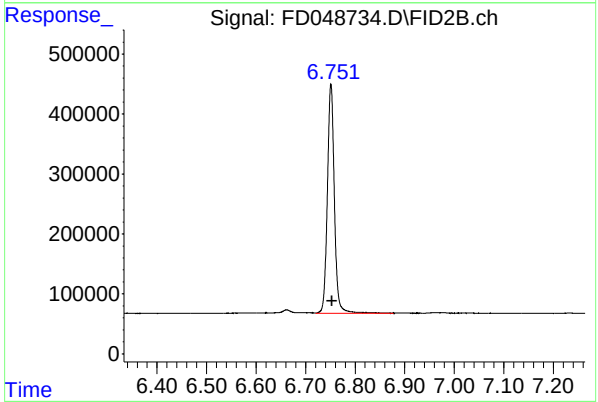
R.T.: 4.187 min
Delta R.T.: -0.004 min
Response: 3665797
Conc: 19.45 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV



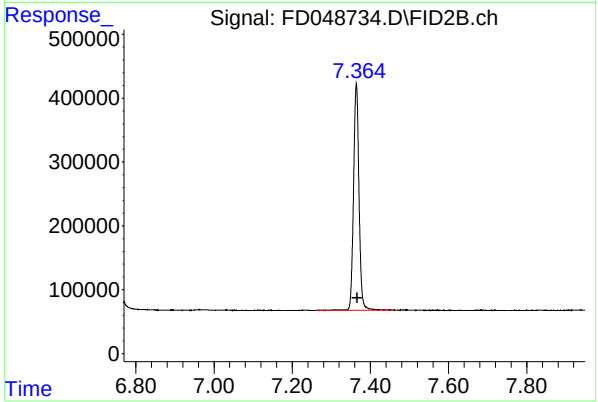

#2 Naphthalene (C11.7)

R.T.: 5.704 min
Delta R.T.: -0.003 min
Response: 3806037
Conc: 19.46 ug/ml



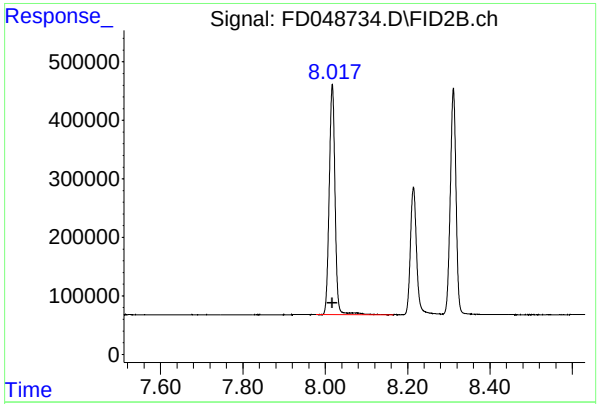

#3 2-Methylnaphthalene (C12.89)

R.T.: 6.751 min
Delta R.T.: -0.002 min
Response: 3747892
Conc: 19.61 ug/ml




#4 2-Bromonaphthalene (SURR)

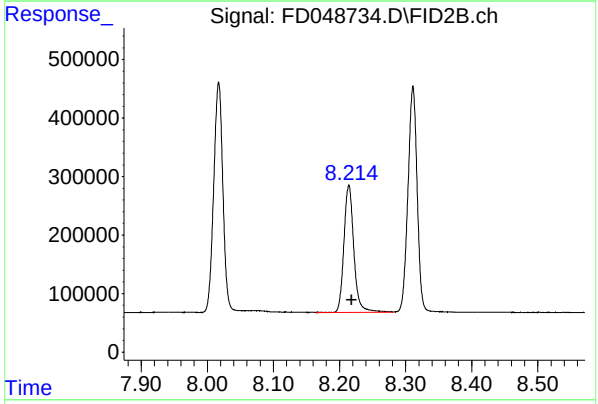
R.T.: 7.364 min
Delta R.T.: -0.002 min
Response: 3456068
Conc: 19.63 ug/ml




#5 Acenaphthylene (C15.06)

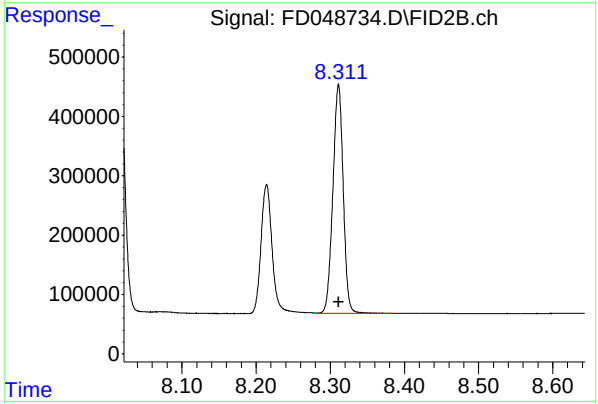
R.T.: 8.017 min
Delta R.T.: 0.000 min
Response: 3882404
Conc: 20.02 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV



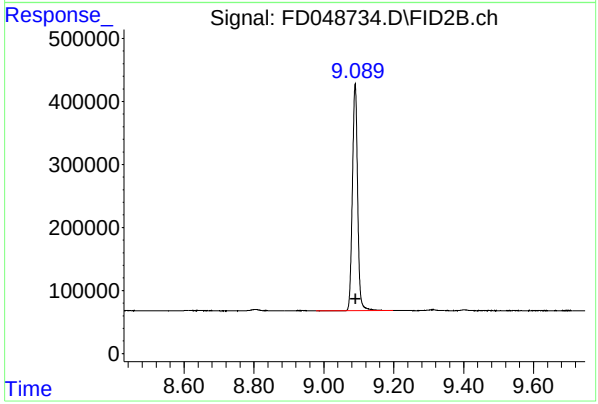

#6 2-Flurobiphenyl (SURR)

R.T.: 8.214 min
Delta R.T.: -0.004 min
Response: 2270429
Conc: 19.71 ug/ml



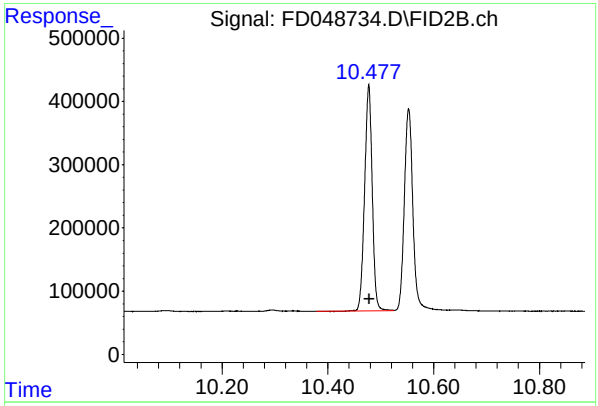

#7 Acenaphthene (C15.5)

R.T.: 8.311 min
Delta R.T.: 0.000 min
Response: 3740654
Conc: 19.45 ug/ml




#8 Flouorene (C16.55)

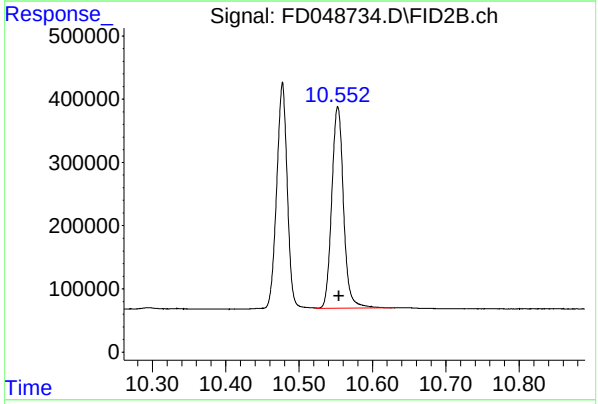
R.T.: 9.090 min
Delta R.T.: -0.002 min
Response: 3756678
Conc: 19.58 ug/ml




#9 Phenanthrene (C19.36)

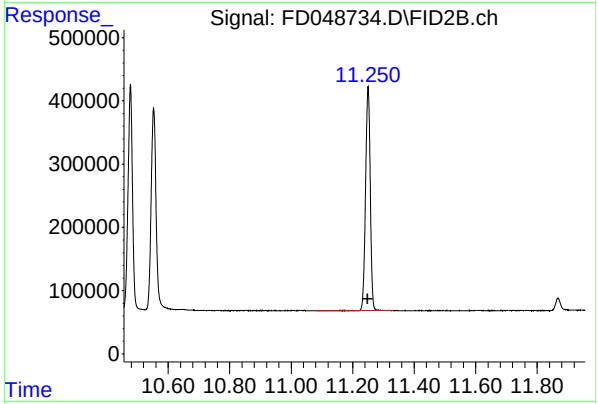
R.T.: 10.477 min
Delta R.T.: 0.000 min
Response: 3562885
Conc: 19.44 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV



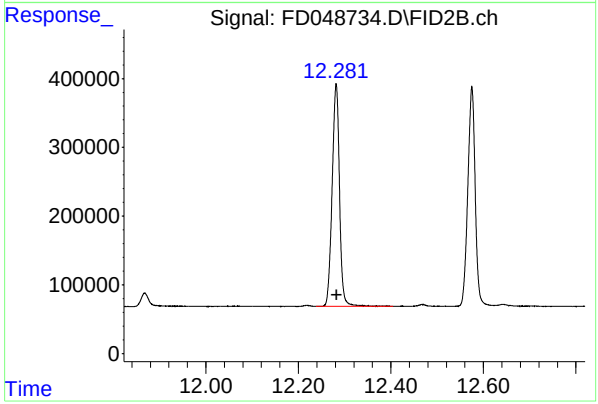

#10 Anthracene (C19.43)

R.T.: 10.553 min
Delta R.T.: -0.002 min
Response: 3563171
Conc: 19.03 ug/ml



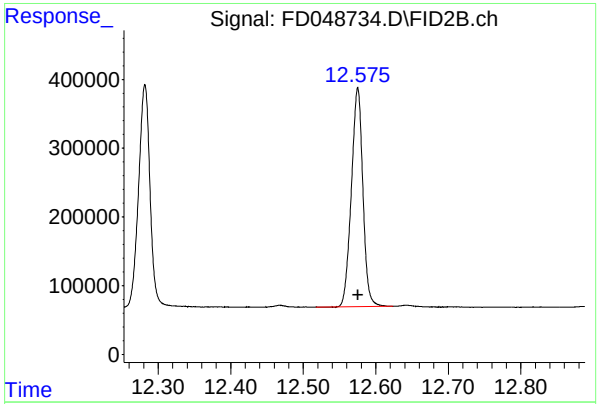

#11 ortho-Terphenyl (SURR)

R.T.: 11.250 min
Delta R.T.: 0.002 min
Response: 3749525
Conc: 19.49 ug/ml




#12 Fluoranthene (C21.85)

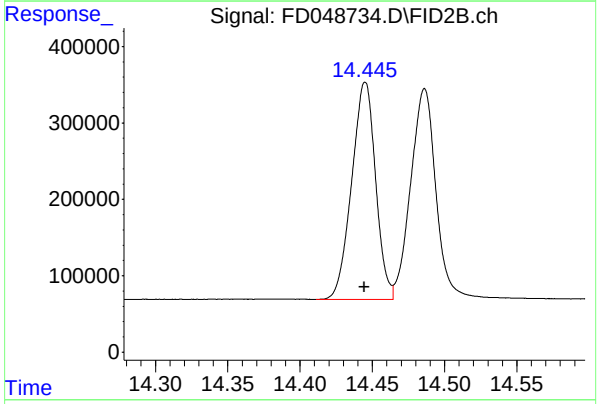
R.T.: 12.282 min
Delta R.T.: 0.000 min
Response: 3573927
Conc: 19.52 ug/ml




#13 Pyrene (C20.8)

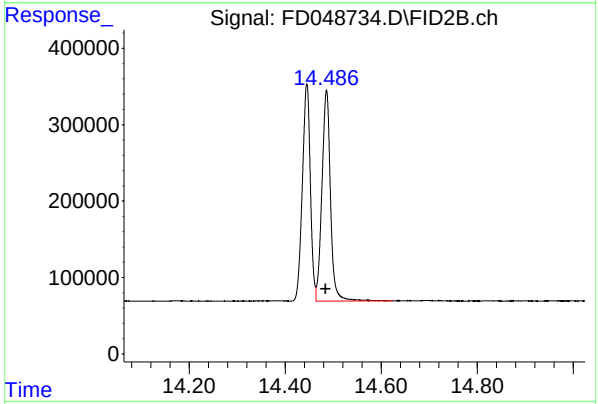
R.T.: 12.575 min
Delta R.T.: 0.000 min
Response: 3507964
Conc: 19.40 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV



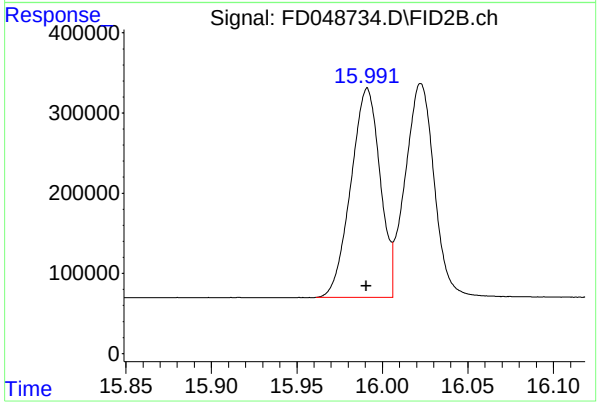

#14 Benzo[a]anthracene (C26.37)

R.T.: 14.445 min
Delta R.T.: 0.000 min
Response: 3271243
Conc: 19.89 ug/ml



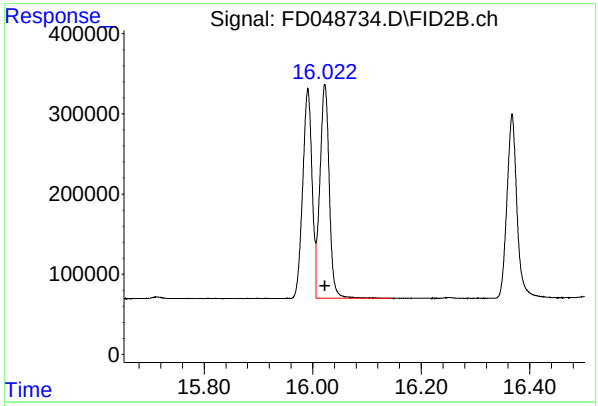

#15 Chrysene (C27.41)

R.T.: 14.486 min
Delta R.T.: 0.002 min
Response: 3405535
Conc: 19.46 ug/ml




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

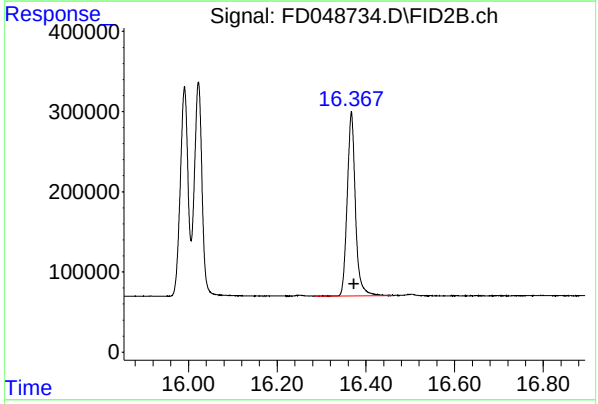
R.T.: 15.991 min
Delta R.T.: 0.000 min
Response: 3111443
Conc: 19.80 ug/ml




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

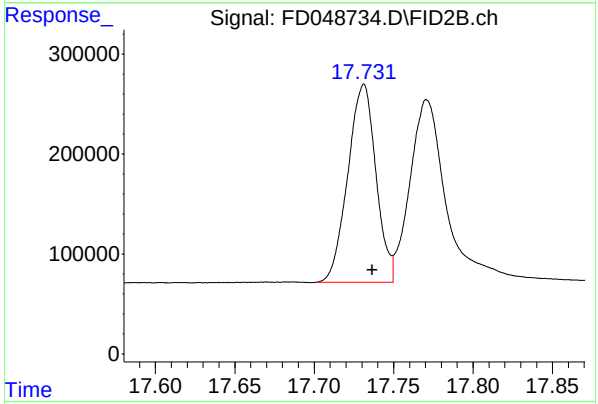
R.T.: 16.022 min
Delta R.T.: 0.000 min
Response: 3204860
Conc: 19.64 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV



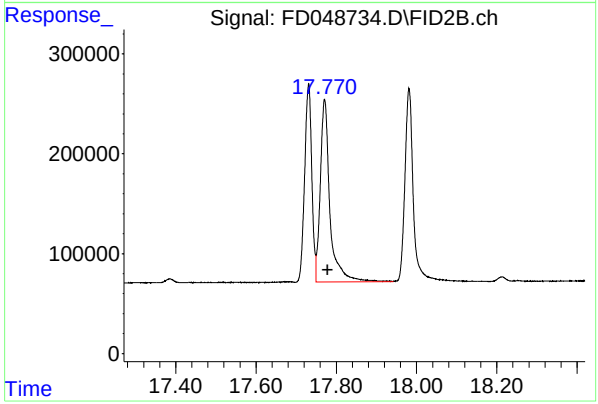

#18 Benzo[a]pyrene (C31.34)

R.T.: 16.367 min
Delta R.T.: -0.005 min
Response: 2937931
Conc: 19.70 ug/ml



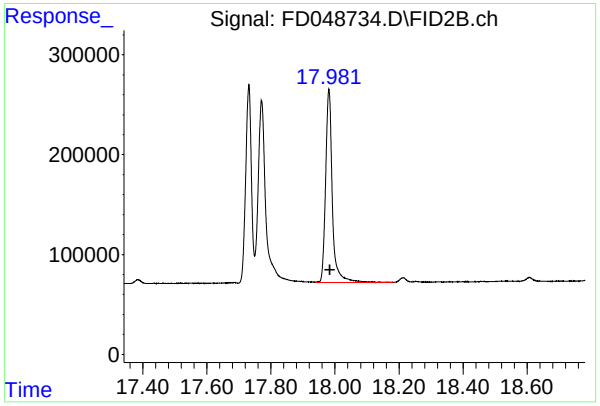

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.731 min
Delta R.T.: -0.006 min
Response: 2442922
Conc: 19.78 ug/ml




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

R.T.: 17.771 min
Delta R.T.: -0.008 min
Response: 3068383
Conc: 19.57 ug/ml




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

R.T.: 17.981 min
Delta R.T.: -0.003 mi
Response: 2827163
Conc: 19.81 ug/m

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048734.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:49
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.187 | 4.161 | 4.250 | BV | 425503 | 3665797 | 94.88% | 5.186% |
| 2 | 5.704 | 5.588 | 5.968 | VV | 405009 | 3863463 | 100.00% | 5.466% |
| 3 | 6.751 | 6.721 | 6.876 | VV | 381698 | 3750038 | 97.06% | 5.305% |
| 4 | 7.364 | 7.251 | 7.464 | PV | 354635 | 3457496 | 89.49% | 4.891% |
| 5 | 8.017 | 7.991 | 8.058 | BV | 394327 | 3815860 | 98.77% | 5.398% |
| 6 | 8.214 | 8.178 | 8.281 | PV | 217413 | 2274269 | 58.87% | 3.217% |
| 7 | 8.311 | 8.281 | 8.414 | VV | 385706 | 3749263 | 97.04% | 5.304% |
| 8 | 9.090 | 9.031 | 9.198 | BV | 361595 | 3781745 | 97.88% | 5.350% |
| 9 | 10.477 | 10.384 | 10.523 | BV | 357565 | 3565194 | 92.28% | 5.044% |
| 10 | 10.553 | 10.523 | 10.628 | VV | 318873 | 3563635 | 92.24% | 5.042% |
| 11 | 11.250 | 11.214 | 11.361 | VV | 354612 | 3772014 | 97.63% | 5.336% |
| 12 | 12.282 | 12.238 | 12.404 | PV | 323586 | 3579166 | 92.64% | 5.064% |
| 13 | 12.575 | 12.534 | 12.624 | PV | 317906 | 3544162 | 91.74% | 5.014% |
| 14 | 14.445 | 14.409 | 14.464 | PV | 285007 | 3271223 | 84.67% | 4.628% |
| 15 | 14.486 | 14.464 | 14.623 | VV | 274350 | 3405868 | 88.16% | 4.818% |
| 16 | 15.991 | 15.961 | 16.006 | BV | 260711 | 3111443 | 80.54% | 4.402% |
| 17 | 16.022 | 16.006 | 16.148 | VB | 266747 | 3204860 | 82.95% | 4.534% |
| 18 | 16.367 | 16.294 | 16.461 | BV | 229745 | 2970535 | 76.89% | 4.203% |
| 19 | 17.731 | 17.701 | 17.750 | BV | 198575 | 2442922 | 63.23% | 3.456% |
| 20 | 17.771 | 17.750 | 17.940 | VV | 182974 | 3068171 | 79.42% | 4.341% |
| 21 | 17.981 | 17.940 | 18.181 | VV | 193617 | 2827375 | 73.18% | 4.000% |
| | | | Sum of corrected areas: | | | 70684497 | | |

Aromatic EPH 111424.M Fri Nov 15 02:40:45 2024

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

# Inital Calibration Report for SequenceID : FF111524AR

**AreaCount**

| Parameter Range | FF015043.D | FF015044.D | FF015045.D | FF015046.D | FF015047.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 25624619.000 | 12840457.000 | 5431334.000 | 2862696.000 | 1484837.000 | |
| Aromatic C12-C16 | 38044279.000 | 19112981.000 | 8004546.000 | 4224718.000 | 2199658.000 | |
| Aromatic C16-C21 | 48194073.000 | 24139876.000 | 10075602.000 | 5320691.000 | 2786424.000 | |
| Aromatic C21-C36 | 101218315.000 | 51088854.000 | 21647169.000 | 11444761.000 | 6117333.000 | |
| Aromatic EPH | 213081286.000 | 107182168.000 | 45158651.000 | 23852866.000 | 12588252.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 136785.903 | 6.574 | | | | |
| Aromatic C12-C16 | 135022.207333 | 6.376 | | | | |
| Aromatic C16-C21 | 127893.6125 | 6.392 | | | | |
| Aromatic C21-C36 | 121872.4751108 | 8.067 | | | | |
| Aromatic EPH | 127059.1752218 | 7.206 | | | | |

**Concentration**

| Parameter Range | FF015043.D | FF015044.D | FF015045.D | FF015046.D | FF015047.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 200.000 | 100.000 | 40.000 | 20.000 | 10.000 | |
| Aromatic C12-C16 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aromatic C16-C21 | 400.000 | 200.000 | 80.000 | 40.000 | 20.000 | |
| Aromatic C21-C36 | 900.000 | 450.000 | 180.000 | 90.000 | 45.000 | |
| Aromatic EPH | 1800.000 | 900.000 | 360.000 | 180.000 | 90.000 | |

**Response Factor**

| Parameter Range | FF015043.D | FF015044.D | FF015045.D | FF015046.D | FF015047.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 128123.095000 | 128404.570000 | 135783.350000 | 143134.800000 | 148483.700000 | |
| Aromatic C12-C16 | 126814.263333 | 127419.873333 | 133409.100000 | 140823.933333 | 146643.866666 | |
| Aromatic C16-C21 | 120485.182500 | 120699.380000 | 125945.025000 | 133017.275000 | 139321.200000 | |
| Aromatic C21-C36 | 112464.794444 | 113530.786666 | 120262.050000 | 127164.011111 | 135940.733333 | |
| Aromatic EPH | 118378.492222 | 119091.297777 | 125440.697222 | 132515.922222 | 139869.466666 | |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015043.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 17:34
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 15 01:56:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.996 | 11473751 | 97.402 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 194.80% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.872 | 7700926 | 97.623 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 195.25%# |
| 11) S | ortho-Terphenyl (SURR) | 11.933 | 12529781 | 97.422 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 194.84% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.611 | 12653641 | 97.015 ug/ml |
| 2) T | Naphthalene (C11.7) | 6.277 | 12970978 | 97.178 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 7.372 | 12685111 | 97.428 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.673 | 12831816 | 97.542 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.973 | 12527352 | 97.426 ug/ml |
| 8) T | Flouorene (C16.55) | 9.762 | 12585943 | 97.843 ug/ml |
| 9) T | Phenanthrene (C19.36) | 11.168 | 12110587 | 97.903 ug/ml |
| 10) T | Anthracene (C19.43) | 11.244 | 11843161 | 97.652 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.989 | 11780977 | 97.826 ug/ml |
| 13) T | Pyrene (C20.8) | 13.289 | 11654382 | 97.733 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 15.167 | 11099011 | 97.341 ug/ml |
| 15) T | Chrysene (C27.41) | 15.215 | 11068748 | 96.994 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.728 | 11328975 | 97.482 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.766 | 11022543 | 96.870 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 17.111 | 10798930 | 96.467 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 18.485 | 11304809 | 98.151 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 18.525 | 10851164 | 94.079 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.750 | 11963158 | 96.417 ug/ml |

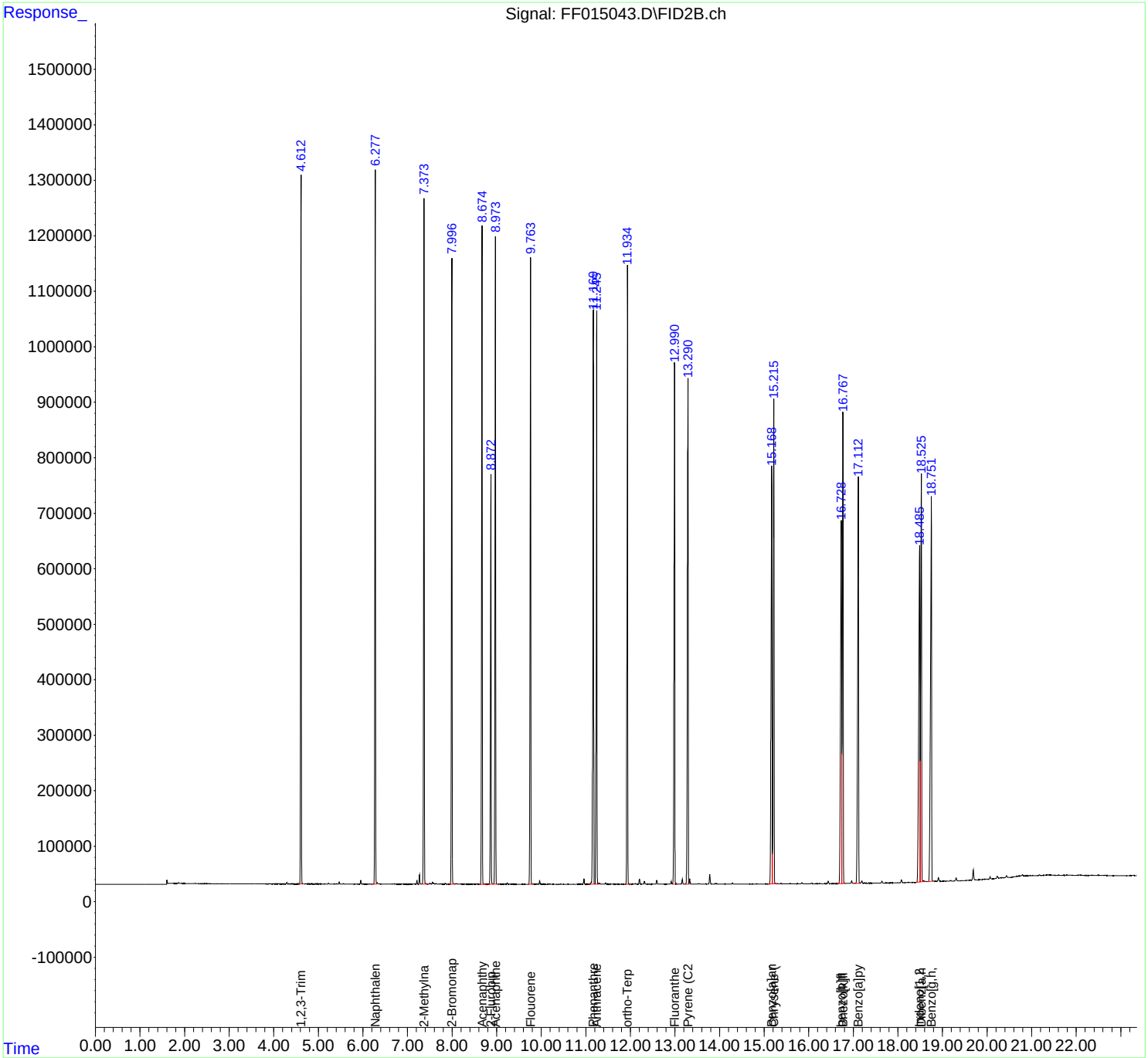
(f)=RT Delta > 1/2 Window (m)=manual int.

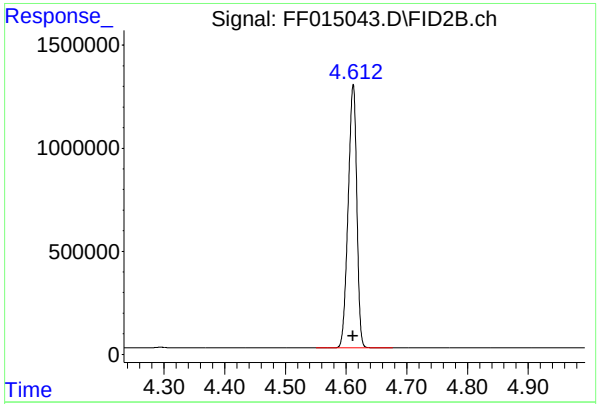
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015043.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 17:34
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 15 01:56:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

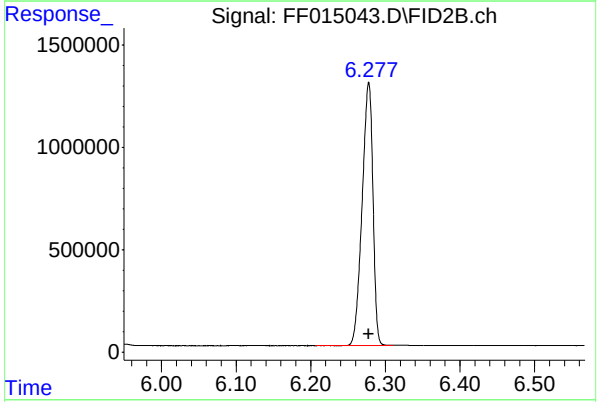





#1 1,2,3-Trimethylbenzene (C10.1)

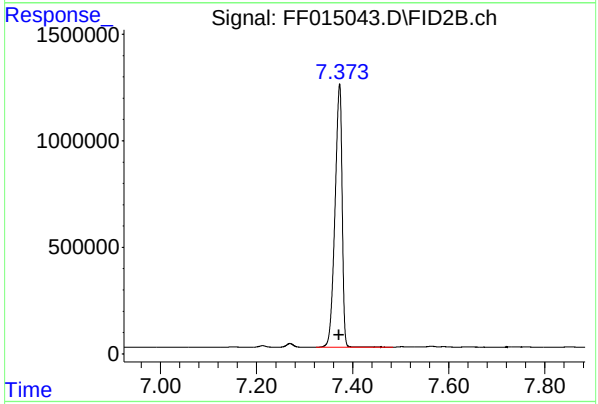
R.T.: 4.611 min
Delta R.T.: 0.000 min
Response: 12653641
Conc: 97.02 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
100 PPM AROMATIC HC STD1



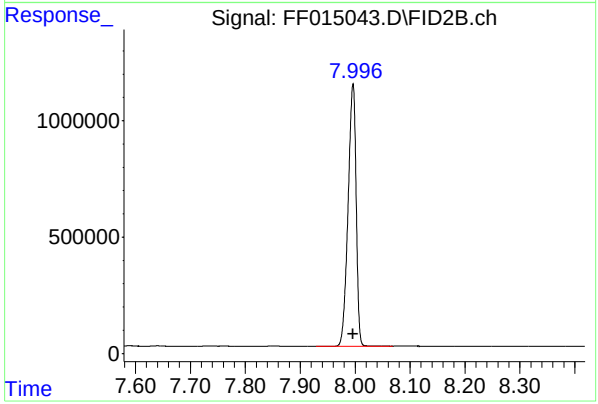

#2 Naphthalene (C11.7)

R.T.: 6.277 min
Delta R.T.: 0.000 min
Response: 12970978
Conc: 97.18 ug/ml



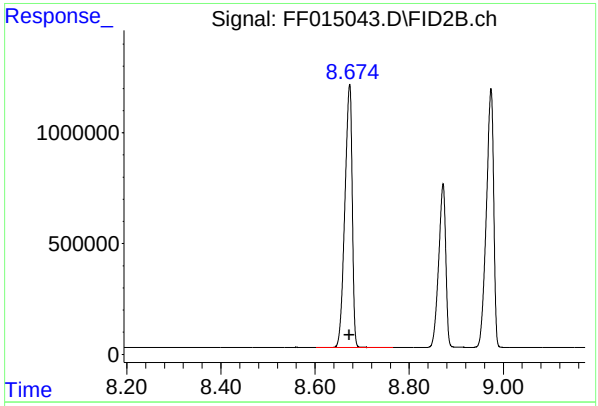

#3 2-Methylnaphthalene (C12.89)

R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 12685111
Conc: 97.43 ug/ml




#4 2-Bromonaphthalene (SURR)

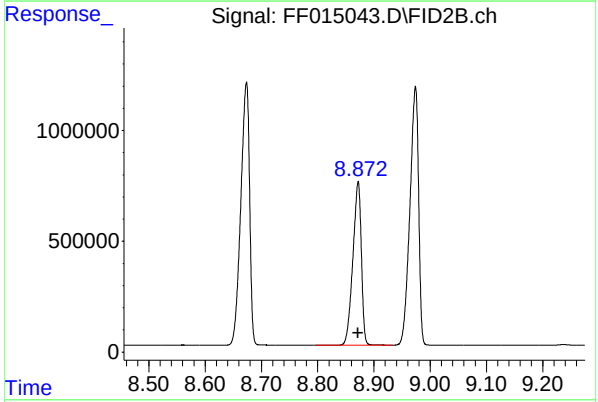
R.T.: 7.996 min
Delta R.T.: 0.000 min
Response: 11473751
Conc: 97.40 ug/ml




#5 Acenaphthylene (C15.06)

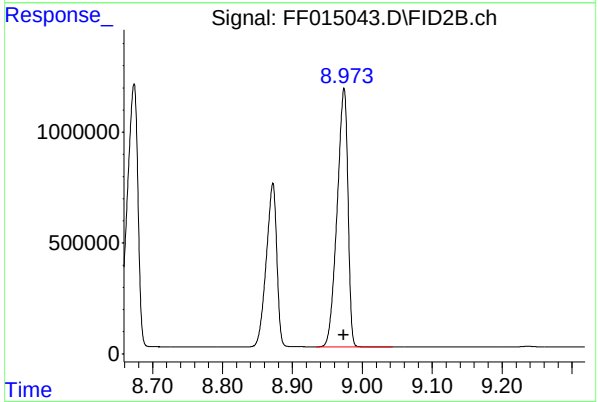
R.T.: 8.673 min
Delta R.T.: 0.000 min
Response: 12831816
Conc: 97.54 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
100 PPM AROMATIC HC STD1



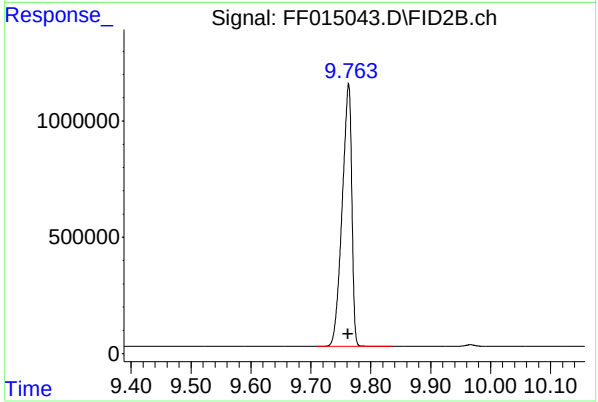

#6 2-Flurobiphenyl (SURR)

R.T.: 8.872 min
Delta R.T.: 0.000 min
Response: 7700926
Conc: 97.62 ug/ml



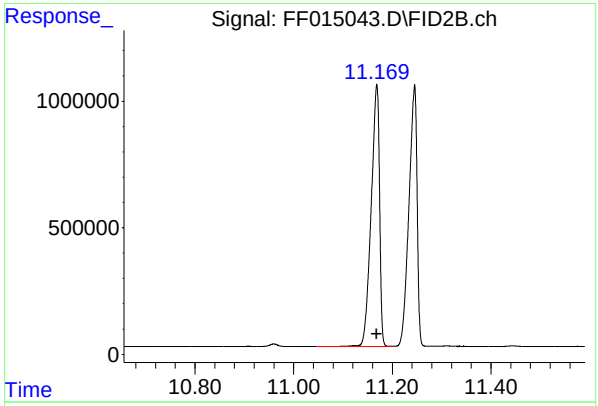

#7 Acenaphthene (C15.5)

R.T.: 8.973 min
Delta R.T.: 0.000 min
Response: 12527352
Conc: 97.43 ug/ml




#8 Flouorene (C16.55)

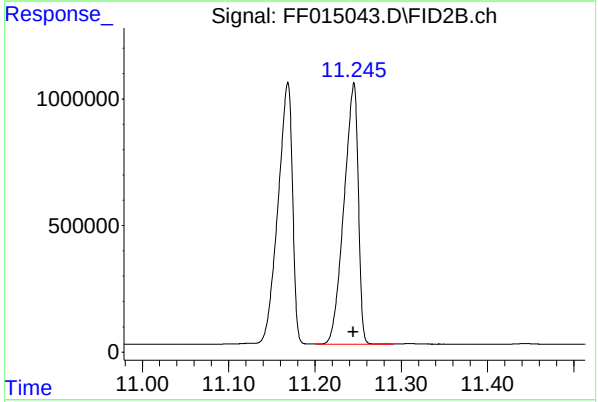
R.T.: 9.762 min
Delta R.T.: 0.000 min
Response: 12585943
Conc: 97.84 ug/ml




#9 Phenanthrene (C19.36)

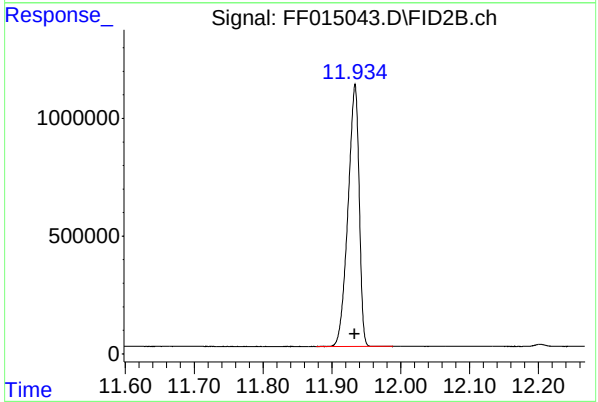
R.T.: 11.168 min
Delta R.T.: 0.000 min
Response: 12110587
Conc: 97.90 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
100 PPM AROMATIC HC STD1



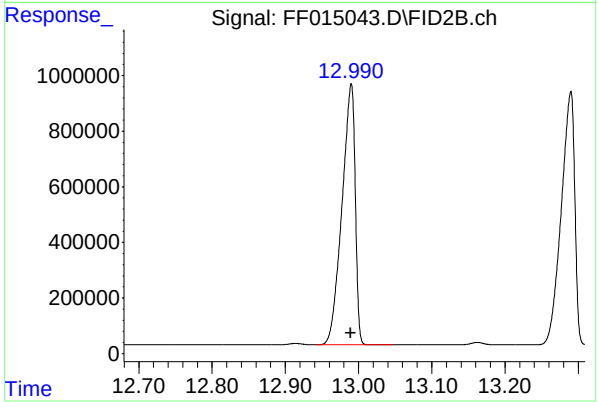

#10 Anthracene (C19.43)

R.T.: 11.244 min
Delta R.T.: 0.000 min
Response: 11843161
Conc: 97.65 ug/ml



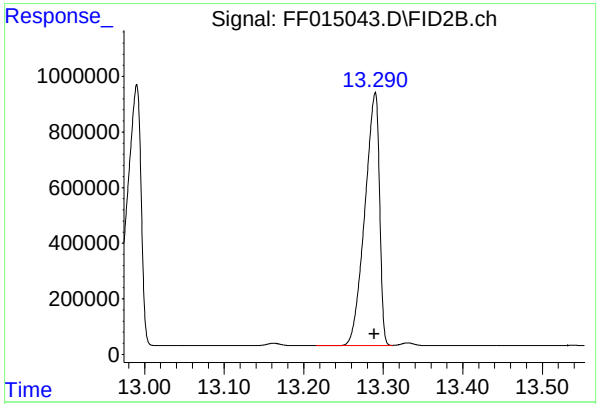

#11 ortho-Terphenyl (SURR)

R.T.: 11.933 min
Delta R.T.: 0.000 min
Response: 12529781
Conc: 97.42 ug/ml




#12 Fluoranthene (C21.85)

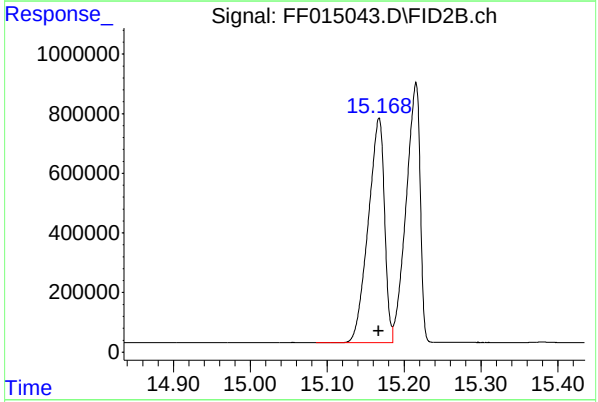
R.T.: 12.989 min
Delta R.T.: 0.000 min
Response: 11780977
Conc: 97.83 ug/ml




#13 Pyrene (C20.8)

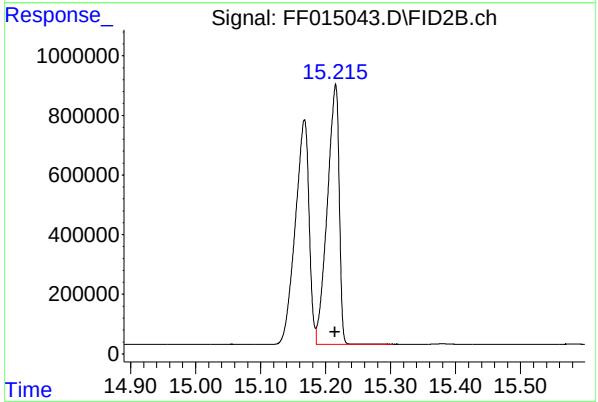
R.T.: 13.289 min
Delta R.T.: 0.000 min
Response: 11654382
Conc: 97.73 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
100 PPM AROMATIC HC STD1



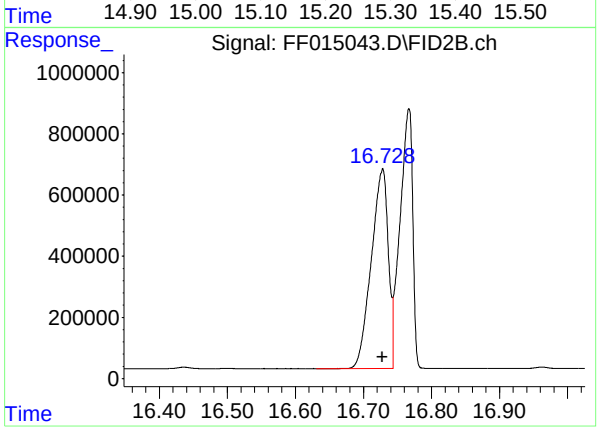

#14 Benzo[a]anthracene (C26.37)

R.T.: 15.167 min
Delta R.T.: 0.000 min
Response: 11099011
Conc: 97.34 ug/ml



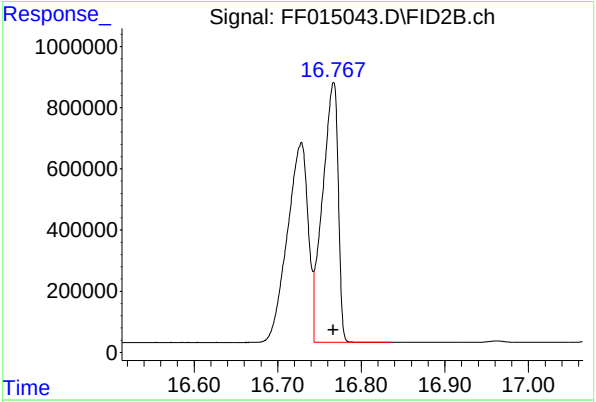

#15 Chrysene (C27.41)

R.T.: 15.215 min
Delta R.T.: 0.000 min
Response: 11068748
Conc: 96.99 ug/ml




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

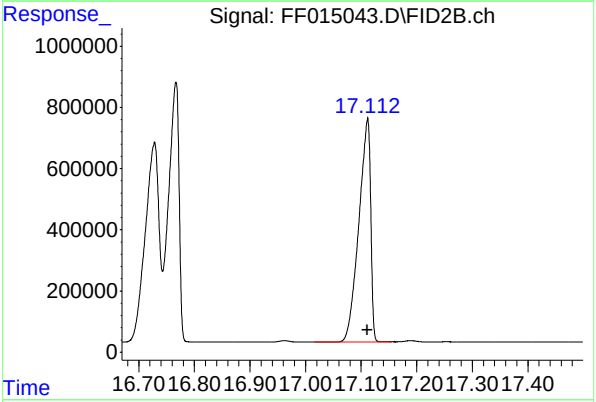
R.T.: 16.728 min
Delta R.T.: 0.000 min
Response: 11328975
Conc: 97.48 ug/ml




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

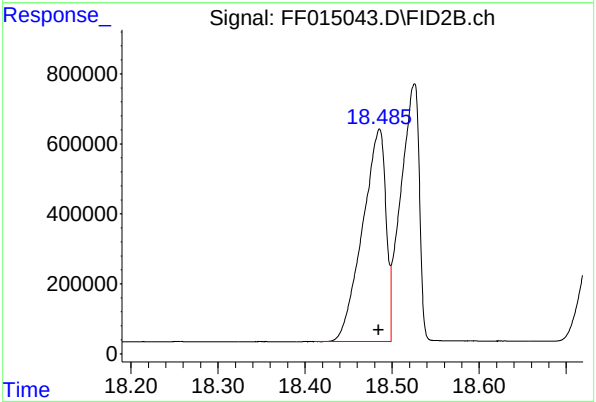
R.T.: 16.766 min
Delta R.T.: 0.000 min
Response: 11022543
Conc: 96.87 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
100 PPM AROMATIC HC STD1



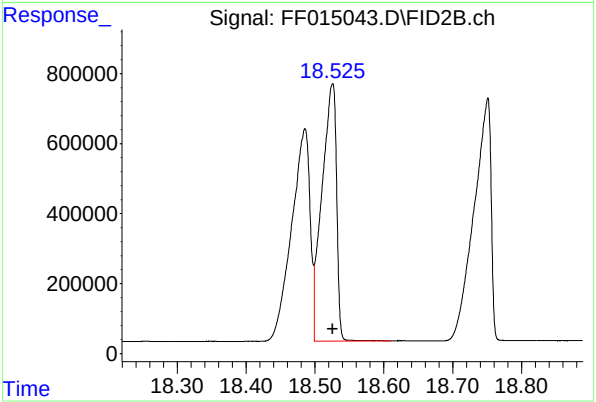

#18 Benzo[a]pyrene (C31.34)

R.T.: 17.111 min
Delta R.T.: 0.000 min
Response: 10798930
Conc: 96.47 ug/ml



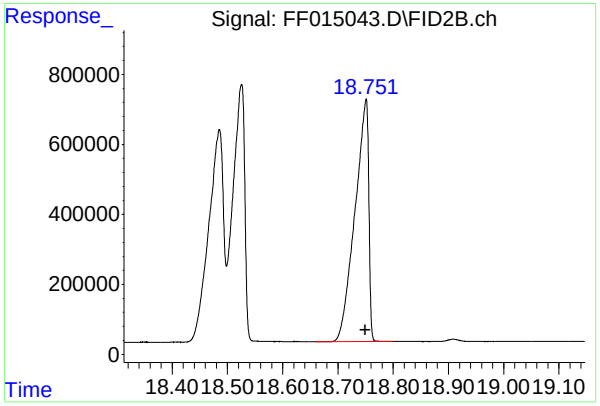

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.485 min
Delta R.T.: 0.000 min
Response: 11304809
Conc: 98.15 ug/ml




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

R.T.: 18.525 min
Delta R.T.: 0.000 min
Response: 10851164
Conc: 94.08 ug/ml




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

R.T.: 18.750 min
Delta R.T.: 0.000 mi
Response: 11963158
Conc: 96.42 ug/m

**Instrument :**
FID_F
**ClientSampleId :**
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015043.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 17:34
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.611 | 4.550 | 4.677 | BB | 1284200 | 12653641 | 97.55% | 5.169% |
| 2 | 6.277 | 6.207 | 6.310 | BV | 1286353 | 12970978 | 100.00% | 5.299% |
| 3 | 7.372 | 7.324 | 7.484 | BV | 1230776 | 12685111 | 97.80% | 5.182% |
| 4 | 7.996 | 7.929 | 8.069 | BV | 1124821 | 11473751 | 88.46% | 4.687% |
| 5 | 8.673 | 8.602 | 8.765 | BB | 1194733 | 12831816 | 98.93% | 5.242% |
| 6 | 8.872 | 8.797 | 8.934 | BV | 741497 | 7700926 | 59.37% | 3.146% |
| 7 | 8.973 | 8.934 | 9.044 | VB | 1170876 | 12527352 | 96.58% | 5.118% |
| 8 | 9.762 | 9.709 | 9.837 | BB | 1122587 | 12585943 | 97.03% | 5.142% |
| 9 | 11.168 | 11.045 | 11.201 | BV | 1041522 | 12110587 | 93.37% | 4.947% |
| 10 | 11.244 | 11.201 | 11.290 | VV | 1015365 | 11843161 | 91.31% | 4.838% |
| 11 | 11.933 | 11.877 | 11.989 | BB | 1119738 | 12529781 | 96.60% | 5.119% |
| 12 | 12.989 | 12.942 | 13.047 | VB | 930228 | 11780977 | 90.83% | 4.813% |
| 13 | 13.289 | 13.215 | 13.312 | BV | 903212 | 11654382 | 89.85% | 4.761% |
| 14 | 15.167 | 15.085 | 15.185 | BV | 754291 | 11099011 | 85.57% | 4.534% |
| 15 | 15.215 | 15.185 | 15.304 | VB | 877088 | 11068748 | 85.33% | 4.522% |
| 16 | 16.728 | 16.630 | 16.743 | BV | 647696 | 11328975 | 87.34% | 4.628% |
| 17 | 16.766 | 16.743 | 16.835 | VB | 845306 | 11022543 | 84.98% | 4.503% |
| 18 | 17.111 | 17.015 | 17.154 | BV | 724064 | 10798930 | 83.25% | 4.412% |
| 19 | 18.485 | 18.410 | 18.499 | BV | 608707 | 11304809 | 87.15% | 4.618% |
| 20 | 18.525 | 18.499 | 18.610 | VV | 736604 | 10851164 | 83.66% | 4.433% |
| 21 | 18.750 | 18.660 | 18.800 | BBA | 678133 | 11963158 | 92.23% | 4.887% |

Sum of corrected areas: 244785745

Aromatic EPH 111524.M Fri Nov 15 02:09:41 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015044.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:02
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 15 01:58:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.992 | 5765850 | 49.293 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 98.59% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.866 | 3868085 | 49.352 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 98.70% |
| 11) S | ortho-Terphenyl (SURR) | 11.928 | 6294210 | 49.288 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 98.58% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.608 | 6355993 | 49.147 ug/ml |
| 2) T | Naphthalene (C11.7) | 6.274 | 6484464 | 49.045 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 7.368 | 6373402 | 49.296 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.668 | 6441909 | 49.308 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.967 | 6297670 | 49.314 ug/ml |
| 8) T | Flouorene (C16.55) | 9.756 | 6306624 | 49.348 ug/ml |
| 9) T | Phenanthrene (C19.36) | 11.161 | 6059037 | 49.316 ug/ml |
| 10) T | Anthracene (C19.43) | 11.237 | 5940822 | 49.318 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.982 | 5898275 | 49.314 ug/ml |
| 13) T | Pyrene (C20.8) | 13.281 | 5833393 | 49.274 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 15.159 | 5586128 | 49.323 ug/ml |
| 15) T | Chrysene (C27.41) | 15.204 | 5577543 | 49.245 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.717 | 5647519 | 49.055 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.753 | 5603055 | 49.249 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 17.099 | 5462604 | 49.192 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 18.470 | 5577932 | 48.942 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 18.510 | 5689684 | 49.173 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.730 | 6046114 | 49.145 ug/ml |

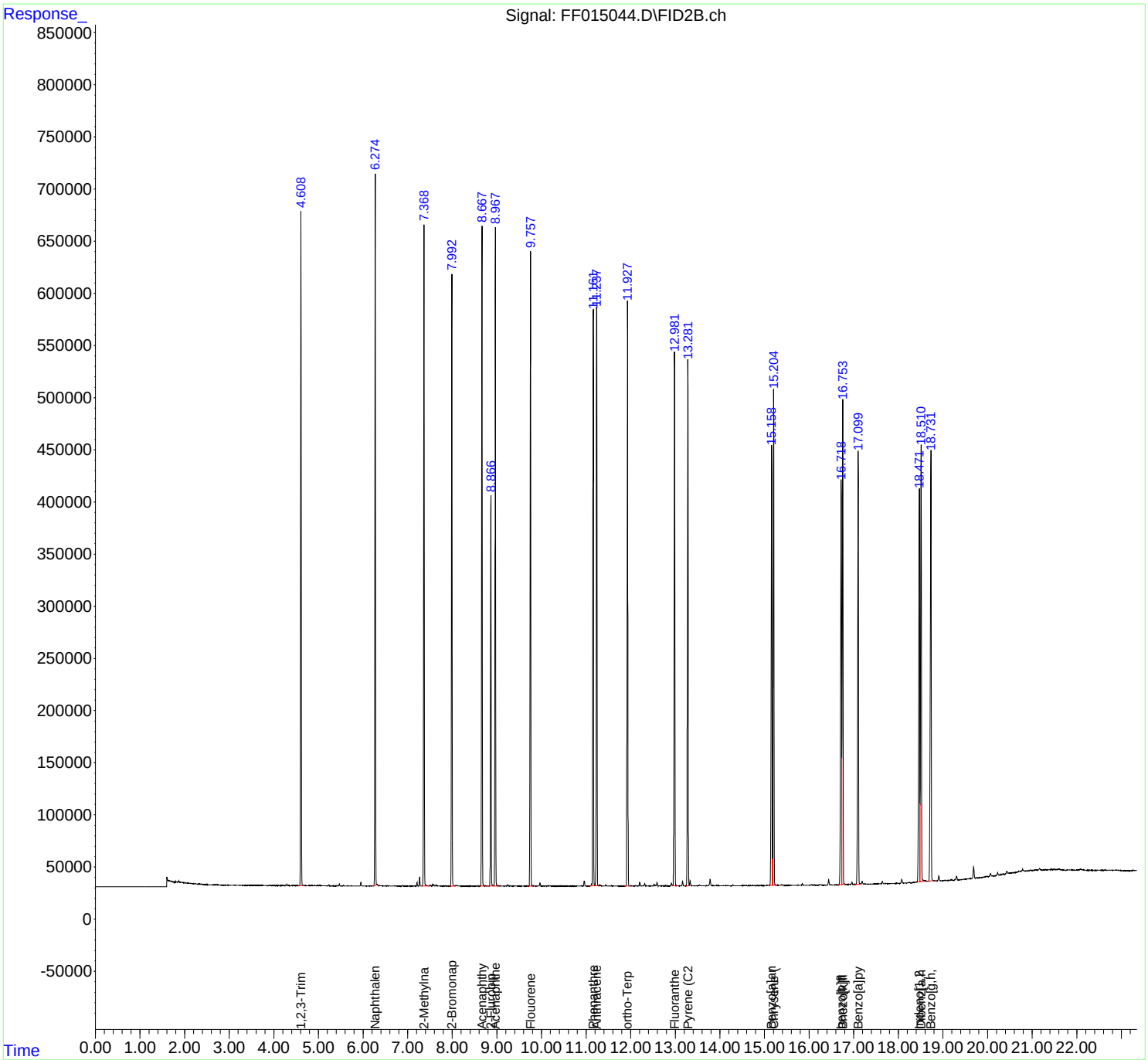
(f)=RT Delta > 1/2 Window (m)=manual int.

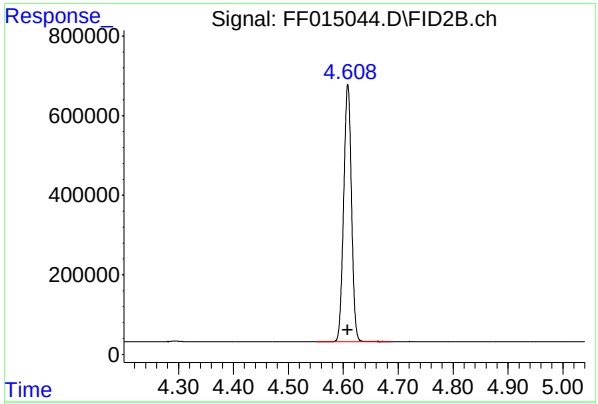
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015044.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:02
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 15 01:58:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

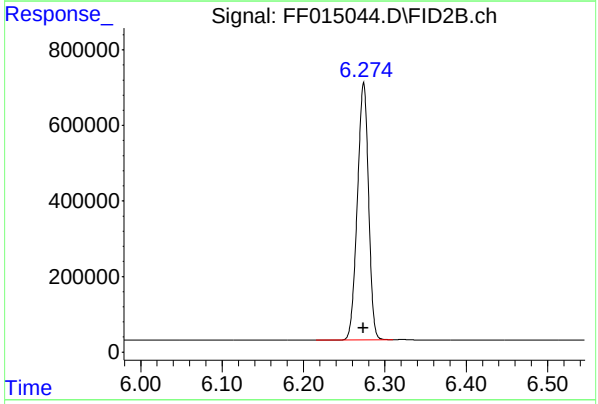





#1 1,2,3-Trimethylbenzene (C10.1)

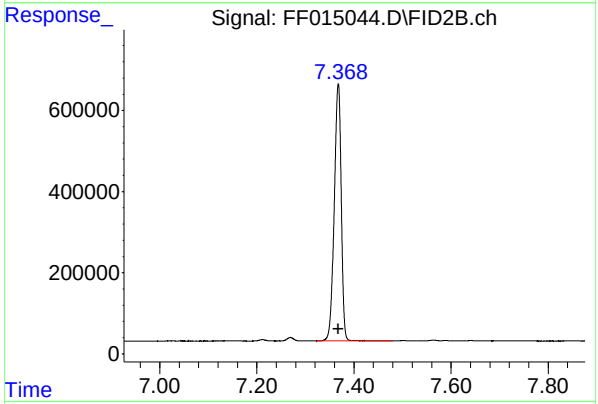
R.T.: 4.608 min
Delta R.T.: 0.000 min
Response: 6355993
Conc: 49.15 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
50 PPM AROMATIC HC STD2



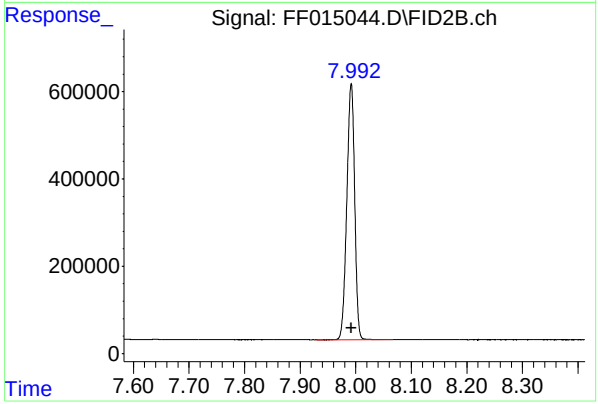

#2 Naphthalene (C11.7)

R.T.: 6.274 min
Delta R.T.: 0.000 min
Response: 6484464
Conc: 49.05 ug/ml



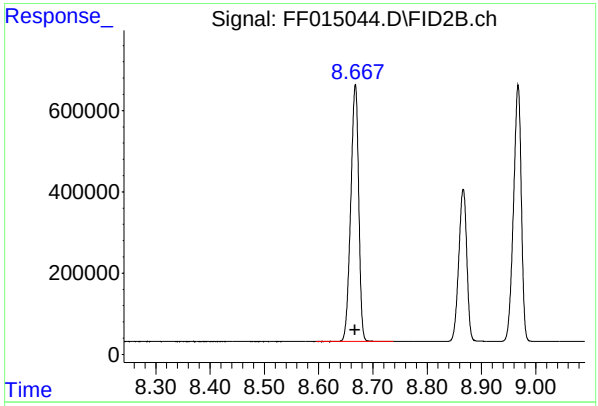

#3 2-Methylnaphthalene (C12.89)

R.T.: 7.368 min
Delta R.T.: 0.000 min
Response: 6373402
Conc: 49.30 ug/ml




#4 2-Bromonaphthalene (SURR)

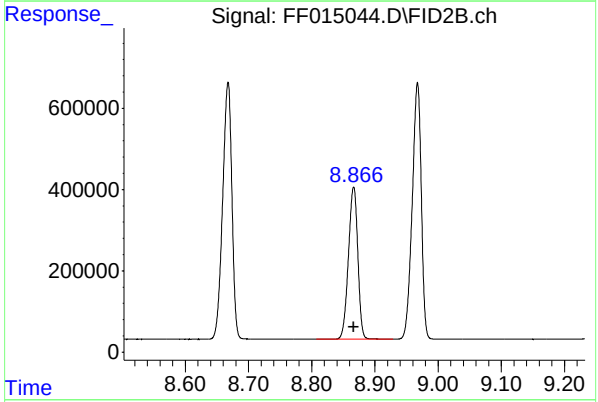
R.T.: 7.992 min
Delta R.T.: 0.000 min
Response: 5765850
Conc: 49.29 ug/ml




#5 Acenaphthylene (C15.06)

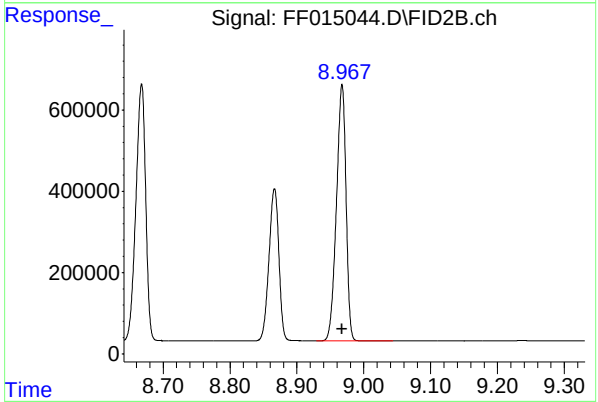
R.T.: 8.668 min
Delta R.T.: 0.000 min
Response: 6441909
Conc: 49.31 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
50 PPM AROMATIC HC STD2



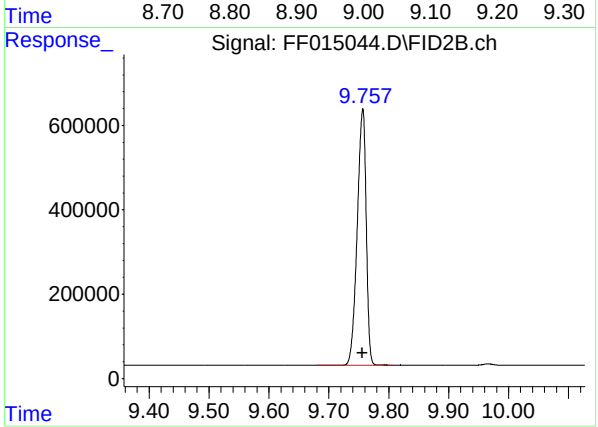

#6 2-Flurobiphenyl (SURR)

R.T.: 8.866 min
Delta R.T.: 0.000 min
Response: 3868085
Conc: 49.35 ug/ml



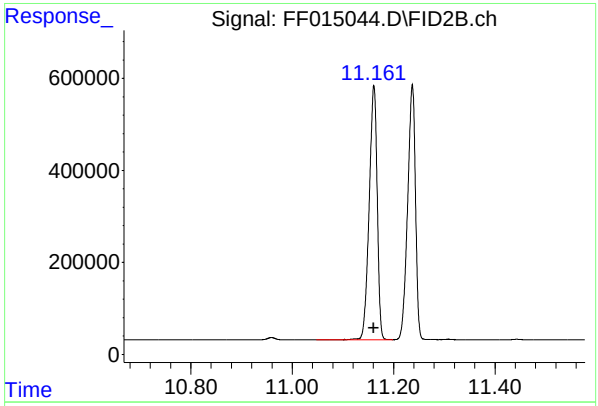

#7 Acenaphthene (C15.5)

R.T.: 8.967 min
Delta R.T.: 0.000 min
Response: 6297670
Conc: 49.31 ug/ml




#8 Flouorene (C16.55)

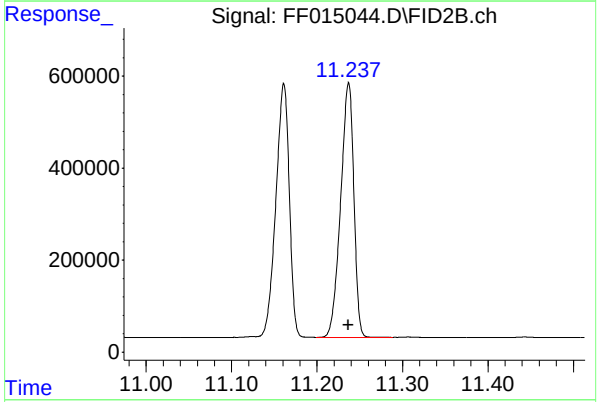
R.T.: 9.756 min
Delta R.T.: 0.000 min
Response: 6306624
Conc: 49.35 ug/ml




#9 Phenanthrene (C19.36)

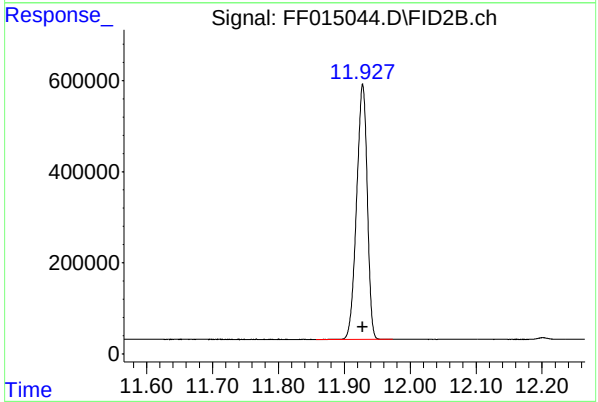
R.T.: 11.161 min
Delta R.T.: 0.000 min
Response: 6059037
Conc: 49.32 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
50 PPM AROMATIC HC STD2



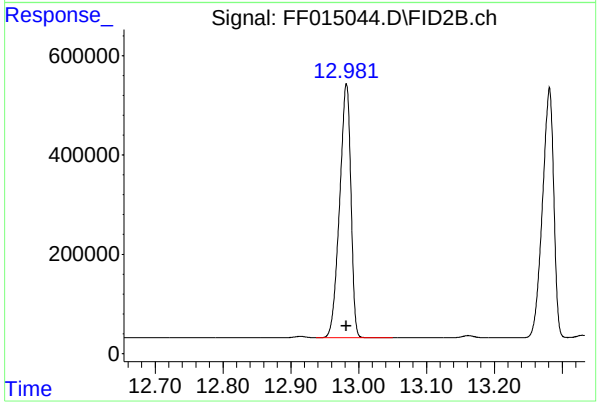

#10 Anthracene (C19.43)

R.T.: 11.237 min
Delta R.T.: 0.000 min
Response: 5940822
Conc: 49.32 ug/ml



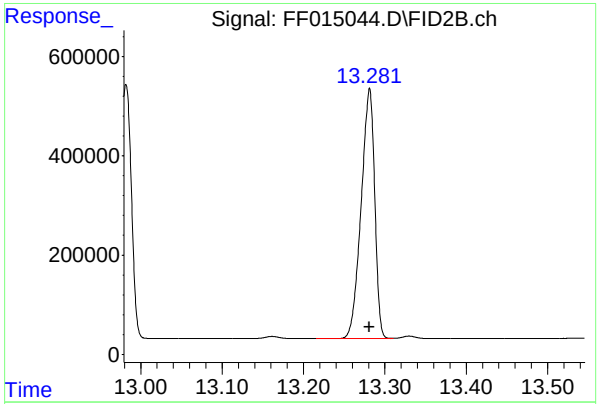

#11 ortho-Terphenyl (SURR)

R.T.: 11.928 min
Delta R.T.: 0.000 min
Response: 6294210
Conc: 49.29 ug/ml




#12 Fluoranthene (C21.85)

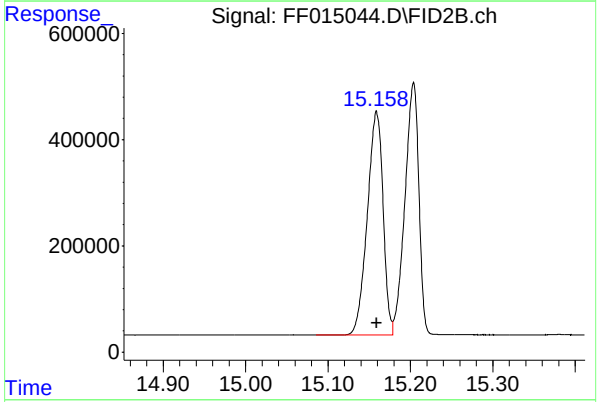
R.T.: 12.982 min
Delta R.T.: 0.000 min
Response: 5898275
Conc: 49.31 ug/ml




#13 Pyrene (C20.8)

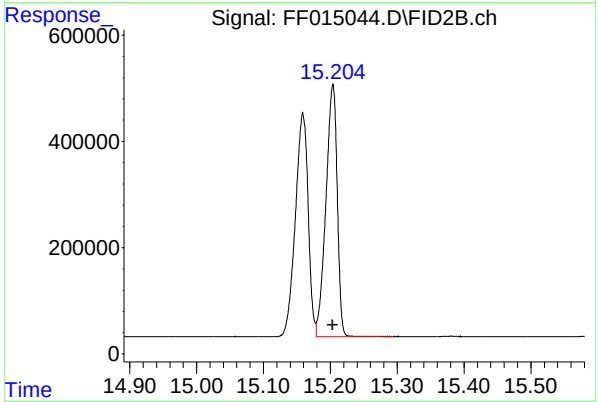
R.T.: 13.281 min
Delta R.T.: 0.000 min
Response: 5833393
Conc: 49.27 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
50 PPM AROMATIC HC STD2



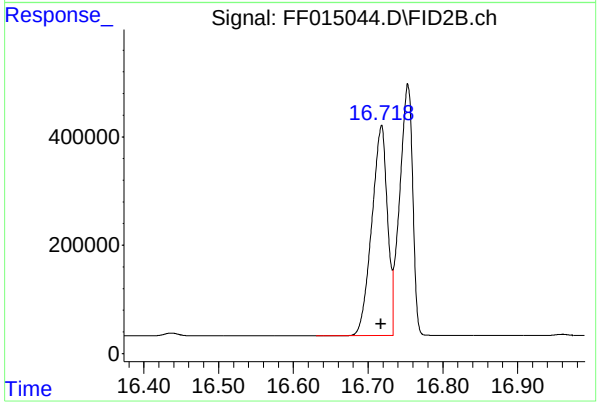

#14 Benzo[a]anthracene (C26.37)

R.T.: 15.159 min
Delta R.T.: 0.000 min
Response: 5586128
Conc: 49.32 ug/ml



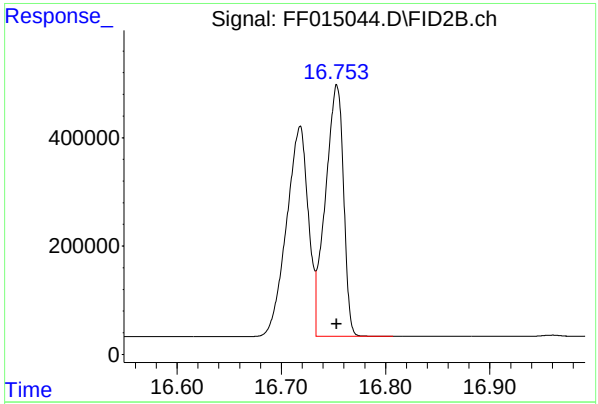

#15 Chrysene (C27.41)

R.T.: 15.204 min
Delta R.T.: 0.000 min
Response: 5577543
Conc: 49.24 ug/ml




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

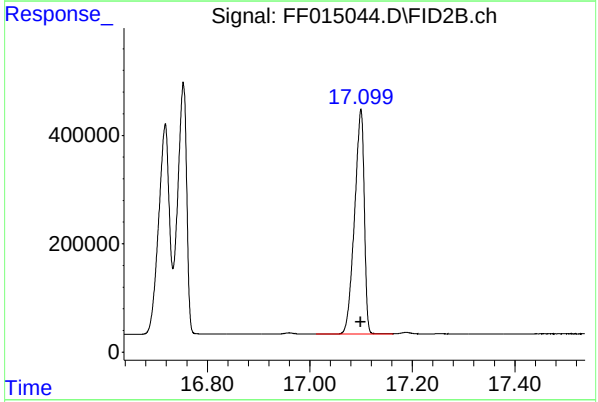
R.T.: 16.717 min
Delta R.T.: 0.000 min
Response: 5647519
Conc: 49.05 ug/ml




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

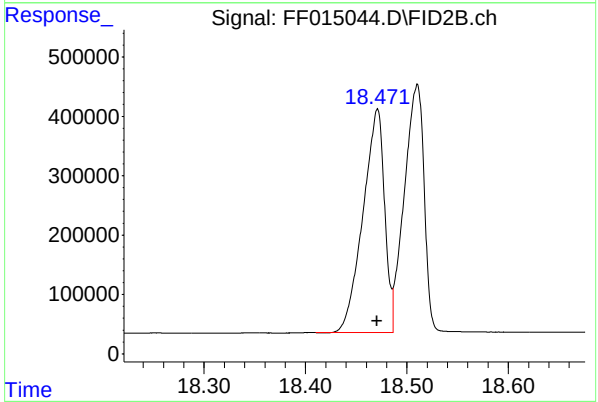
R.T.: 16.753 min
Delta R.T.: 0.000 min
Response: 5603055
Conc: 49.25 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
50 PPM AROMATIC HC STD2



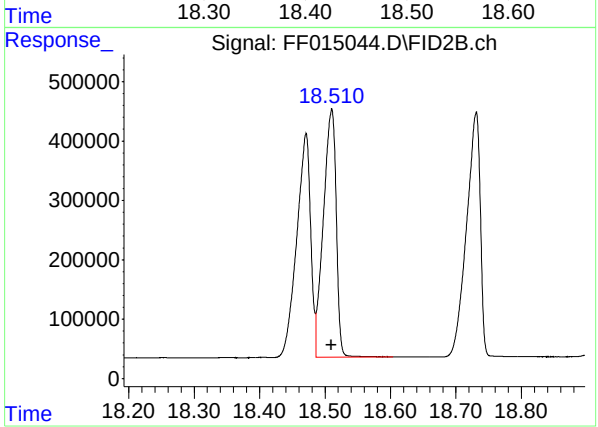

#18 Benzo[a]pyrene (C31.34)

R.T.: 17.099 min
Delta R.T.: 0.000 min
Response: 5462604
Conc: 49.19 ug/ml



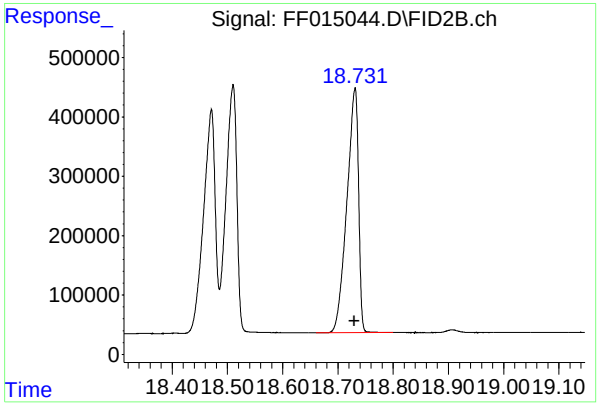

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.470 min
Delta R.T.: 0.000 min
Response: 5577932
Conc: 48.94 ug/ml




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

R.T.: 18.510 min
Delta R.T.: 0.000 min
Response: 5689684
Conc: 49.17 ug/ml




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

R.T.: 18.730 min
Delta R.T.: 0.000 mi
Response: 6046114
Conc: 49.15 ug/m

**Instrument :**
FID_F
**ClientSampleId :**
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015044.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:02
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.608 | 4.550 | 4.690 | BB | 646640 | 6355993 | 98.02% | 5.163% |
| 2 | 6.274 | 6.215 | 6.310 | BV | 681760 | 6484464 | 100.00% | 5.267% |
| 3 | 7.368 | 7.322 | 7.480 | BB | 634040 | 6373402 | 98.29% | 5.177% |
| 4 | 7.992 | 7.929 | 8.067 | BV | 587856 | 5765850 | 88.92% | 4.683% |
| 5 | 8.668 | 8.595 | 8.737 | BB | 631948 | 6441909 | 99.34% | 5.233% |
| 6 | 8.866 | 8.807 | 8.929 | BV | 375889 | 3868085 | 59.65% | 3.142% |
| 7 | 8.967 | 8.929 | 9.044 | VB | 631421 | 6297670 | 97.12% | 5.115% |
| 8 | 9.756 | 9.679 | 9.807 | BB | 602459 | 6306624 | 97.26% | 5.123% |
| 9 | 11.161 | 11.047 | 11.199 | BV | 552931 | 6059037 | 93.44% | 4.922% |
| 10 | 11.237 | 11.199 | 11.289 | VV | 555809 | 5940822 | 91.62% | 4.826% |
| 11 | 11.928 | 11.857 | 11.974 | BB | 560091 | 6294210 | 97.07% | 5.113% |
| 12 | 12.982 | 12.937 | 13.050 | PB | 512884 | 5898275 | 90.96% | 4.791% |
| 13 | 13.281 | 13.215 | 13.310 | BV | 502442 | 5833393 | 89.96% | 4.738% |
| 14 | 15.159 | 15.085 | 15.179 | BV | 421346 | 5586128 | 86.15% | 4.537% |
| 15 | 15.204 | 15.179 | 15.294 | VB | 476258 | 5577543 | 86.01% | 4.531% |
| 16 | 16.717 | 16.630 | 16.733 | BV | 386343 | 5647519 | 87.09% | 4.587% |
| 17 | 16.753 | 16.733 | 16.807 | VB | 462660 | 5603055 | 86.41% | 4.551% |
| 18 | 17.099 | 17.012 | 17.162 | BV | 413089 | 5462604 | 84.24% | 4.437% |
| 19 | 18.470 | 18.410 | 18.486 | BV | 376224 | 5577932 | 86.02% | 4.531% |
| 20 | 18.510 | 18.486 | 18.604 | VB | 420291 | 5689684 | 87.74% | 4.622% |
| 21 | 18.730 | 18.660 | 18.800 | BBA | 410563 | 6046114 | 93.24% | 4.911% |

Sum of corrected areas: 123110313

Aromatic EPH 111524.M Fri Nov 15 02:10:42 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015045.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:30
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 15 01:54:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.990 | 2417165 | 20.000 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.00% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.864 | 1615201 | 20.000 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 40.00% |
| 11) S | ortho-Terphenyl (SURR) | 11.925 | 2638586 | 20.000 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.00% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.608 | 2686457 | 20.000 ug/ml |
| 2) T | Naphthalene (C11.7) | 6.272 | 2744877 | 20.000 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 7.365 | 2670985 | 20.000 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.665 | 2695701 | 20.000 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.964 | 2637860 | 20.000 ug/ml |
| 8) T | Flouorene (C16.55) | 9.752 | 2628156 | 20.000 ug/ml |
| 9) T | Phenanthrene (C19.36) | 11.157 | 2525902 | 20.000 ug/ml |
| 10) T | Anthracene (C19.43) | 11.232 | 2482553 | 20.000 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.976 | 2460902 | 20.000 ug/ml |
| 13) T | Pyrene (C20.8) | 13.275 | 2438991 | 20.000 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 15.152 | 2341059 | 20.000 ug/ml |
| 15) T | Chrysene (C27.41) | 15.195 | 2350968 | 20.000 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.709 | 2382838 | 20.000 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.742 | 2380446 | 20.000 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 17.089 | 2318007 | 20.000 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 18.460 | 2346148 | 20.000 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 18.500 | 2496360 | 20.000 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.717 | 2570441 | 20.000 ug/ml |

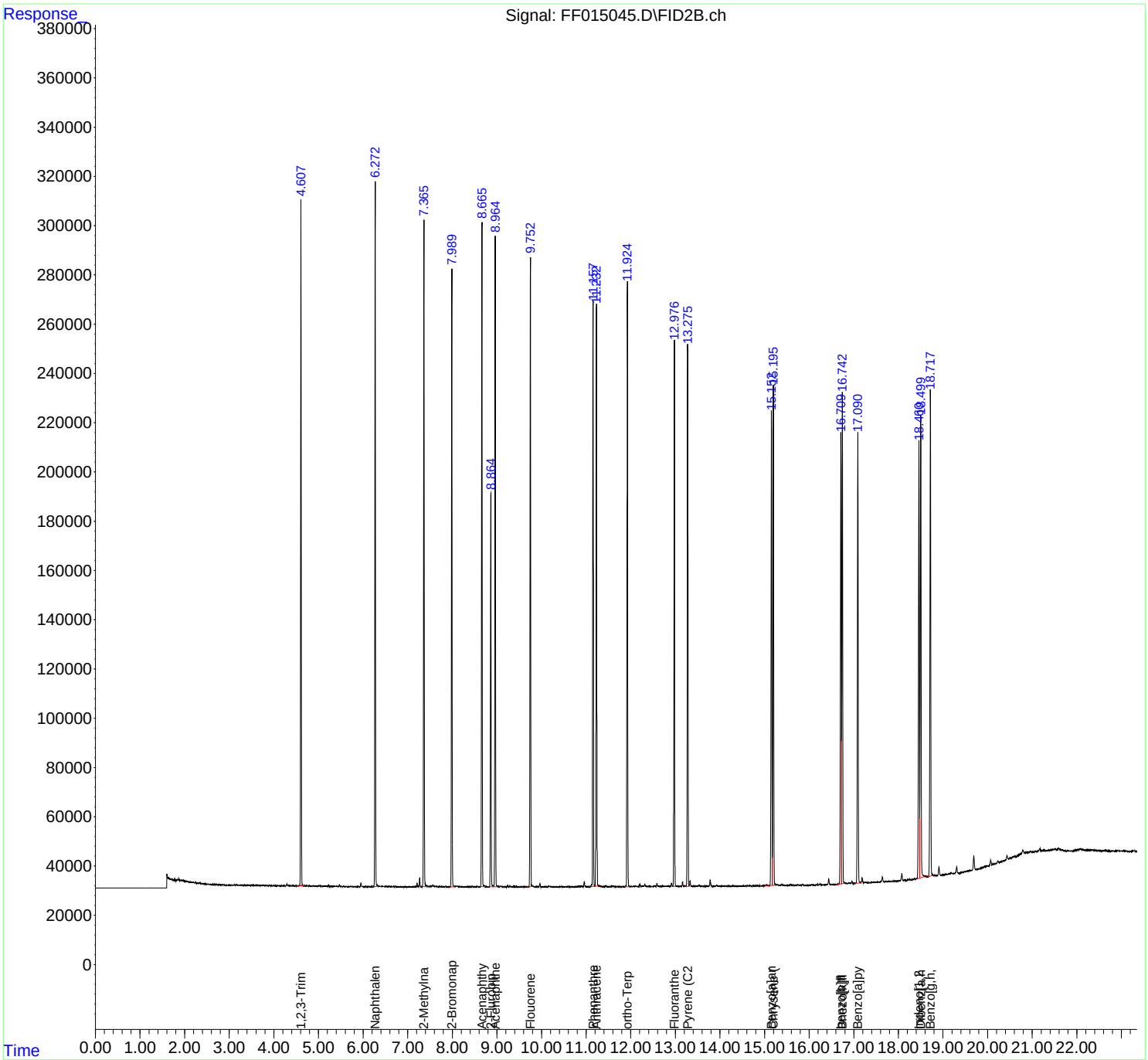
(f)=RT Delta > 1/2 Window (m)=manual int.

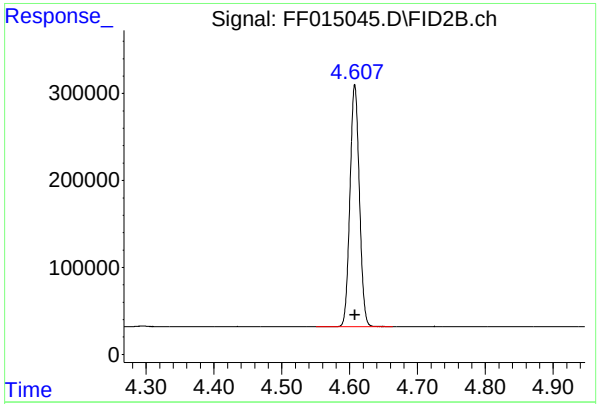
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015045.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:30
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 15 01:54:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

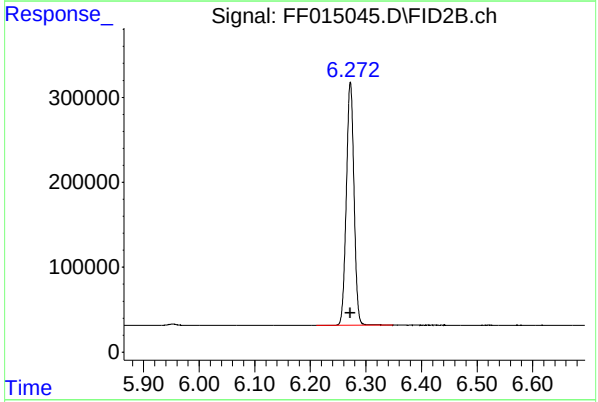





#1 1,2,3-Trimethylbenzene (C10.1)

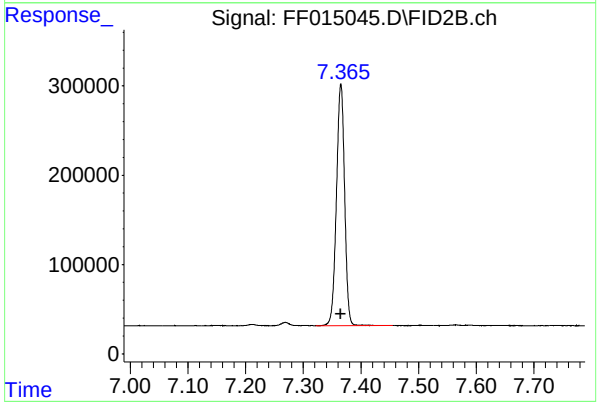
R.T.: 4.608 min
Delta R.T.: 0.000 min
Response: 2686457
Conc: 20.00 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD3



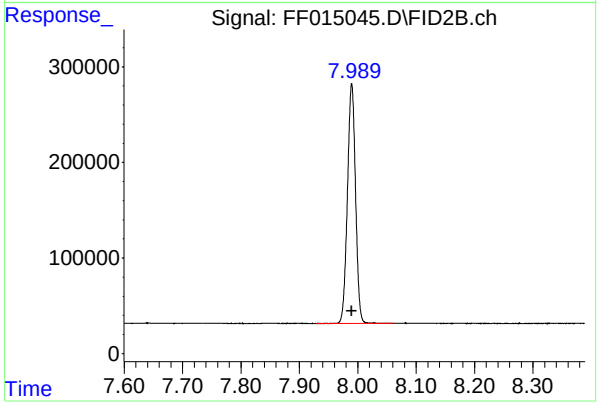

#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.000 min
Response: 2744877
Conc: 20.00 ug/ml



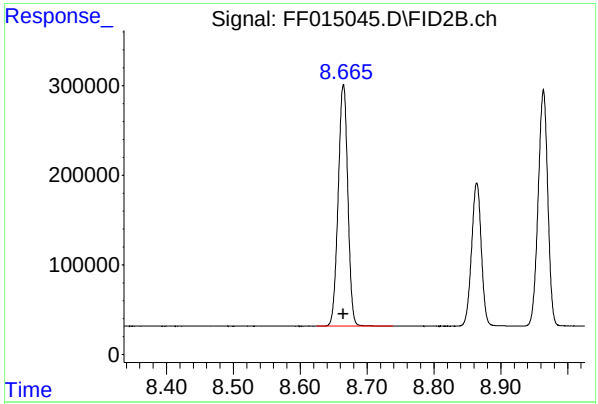

#3 2-Methylnaphthalene (C12.89)

R.T.: 7.365 min
Delta R.T.: 0.000 min
Response: 2670985
Conc: 20.00 ug/ml




#4 2-Bromonaphthalene (SURR)

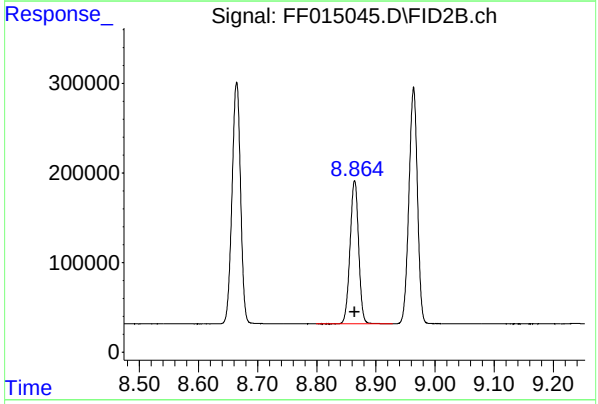
R.T.: 7.990 min
Delta R.T.: 0.000 min
Response: 2417165
Conc: 20.00 ug/ml




#5 Acenaphthylene (C15.06)

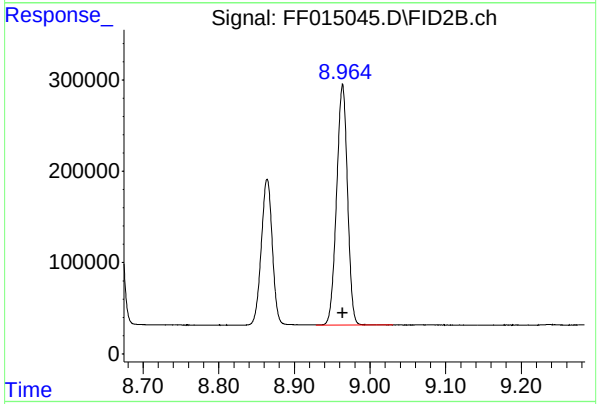
R.T.: 8.665 min
Delta R.T.: 0.000 min
Response: 2695701
Conc: 20.00 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD3



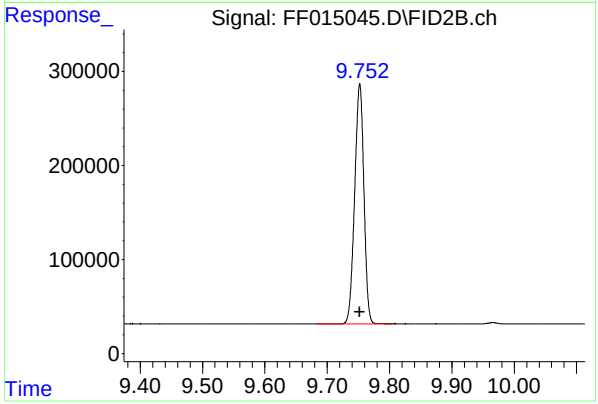

#6 2-Flurobiphenyl (SURR)

R.T.: 8.864 min
Delta R.T.: 0.000 min
Response: 1615201
Conc: 20.00 ug/ml



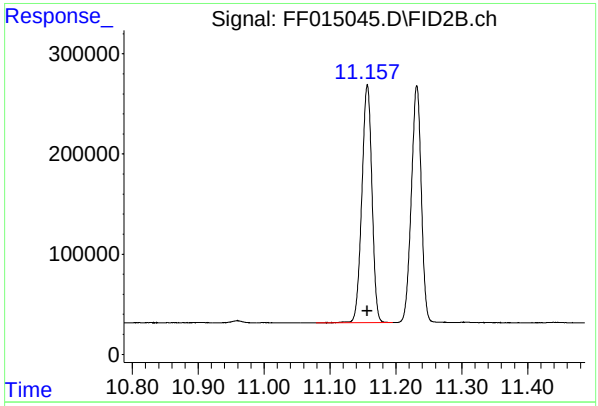

#7 Acenaphthene (C15.5)

R.T.: 8.964 min
Delta R.T.: 0.000 min
Response: 2637860
Conc: 20.00 ug/ml




#8 Flouorene (C16.55)

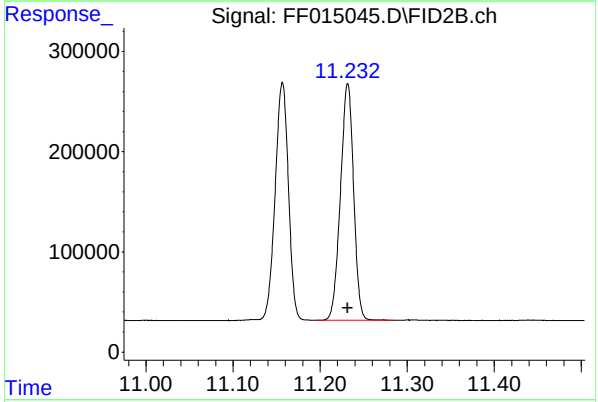
R.T.: 9.752 min
Delta R.T.: 0.000 min
Response: 2628156
Conc: 20.00 ug/ml




#9 Phenanthrene (C19.36)

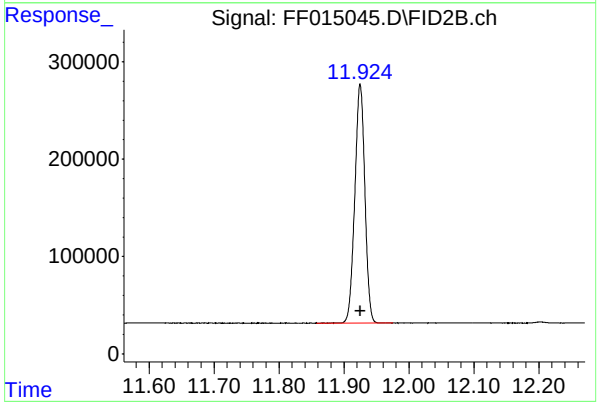
R.T.: 11.157 min
Delta R.T.: 0.000 min
Response: 2525902
Conc: 20.00 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD3



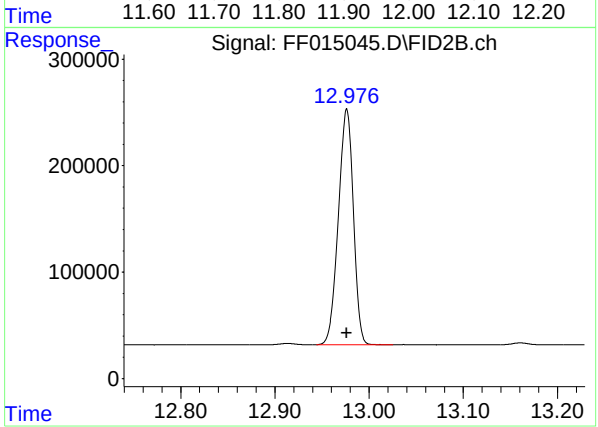

#10 Anthracene (C19.43)

R.T.: 11.232 min
Delta R.T.: 0.000 min
Response: 2482553
Conc: 20.00 ug/ml



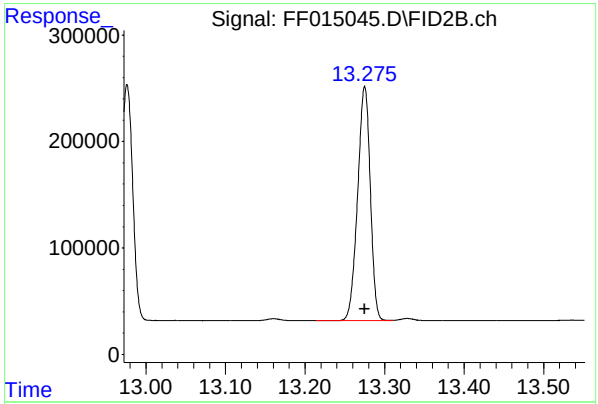

#11 ortho-Terphenyl (SURR)

R.T.: 11.925 min
Delta R.T.: 0.000 min
Response: 2638586
Conc: 20.00 ug/ml




#12 Fluoranthene (C21.85)

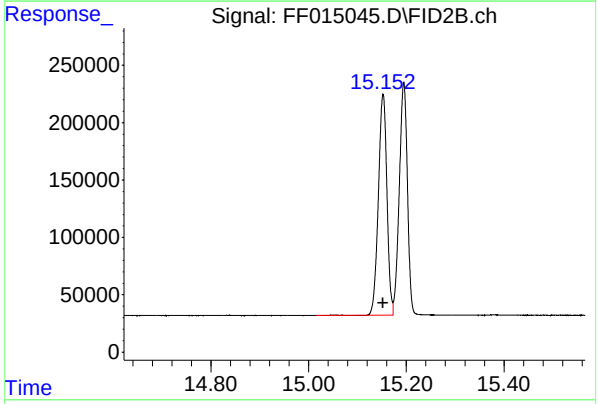
R.T.: 12.976 min
Delta R.T.: 0.000 min
Response: 2460902
Conc: 20.00 ug/ml




#13 Pyrene (C20.8)

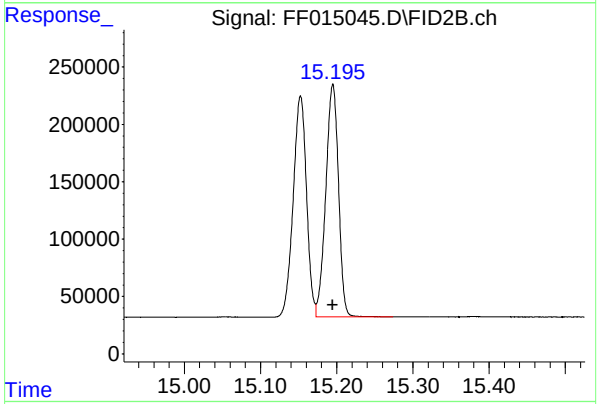
R.T.: 13.275 min
Delta R.T.: 0.000 min
Response: 2438991
Conc: 20.00 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD3



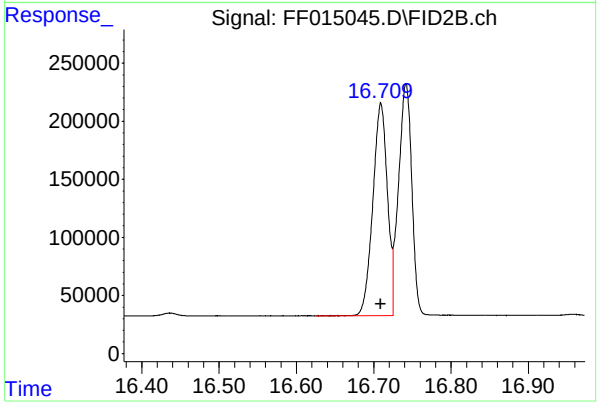

#14 Benzo[a]anthracene (C26.37)

R.T.: 15.152 min
Delta R.T.: 0.000 min
Response: 2341059
Conc: 20.00 ug/ml



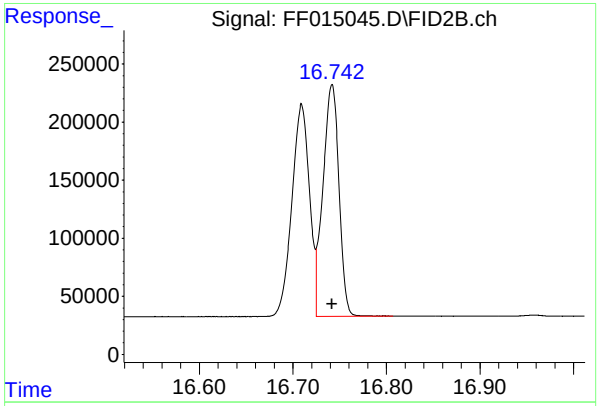

#15 Chrysene (C27.41)

R.T.: 15.195 min
Delta R.T.: 0.000 min
Response: 2350968
Conc: 20.00 ug/ml




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

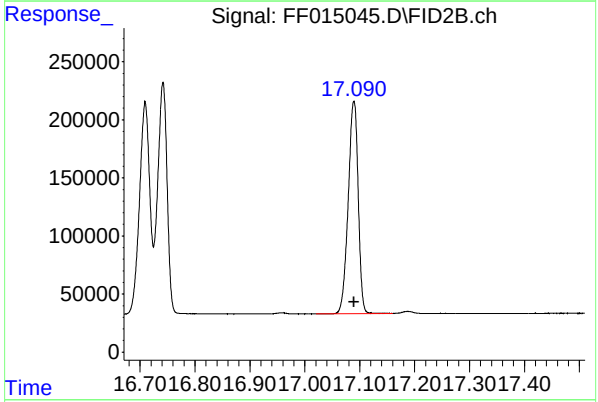
R.T.: 16.709 min
Delta R.T.: 0.000 min
Response: 2382838
Conc: 20.00 ug/ml




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

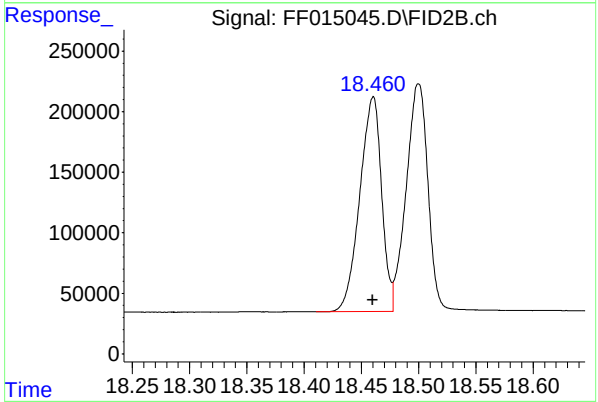
R.T.: 16.742 min
Delta R.T.: 0.000 min
Response: 2380446
Conc: 20.00 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD3



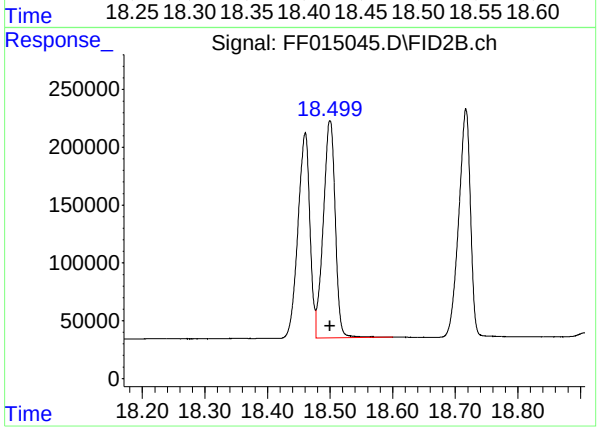

#18 Benzo[a]pyrene (C31.34)

R.T.: 17.089 min
Delta R.T.: 0.000 min
Response: 2318007
Conc: 20.00 ug/ml



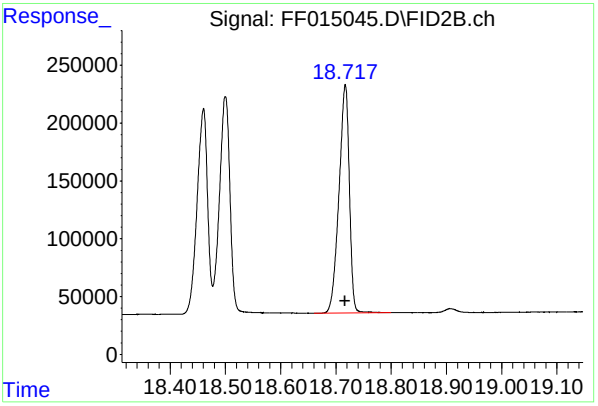

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.460 min
Delta R.T.: 0.000 min
Response: 2346148
Conc: 20.00 ug/ml




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

R.T.: 18.500 min
Delta R.T.: 0.000 min
Response: 2496360
Conc: 20.00 ug/ml




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

R.T.: 18.717 min
Delta R.T.: 0.000 mi
Response: 2570441
Conc: 20.00 ug/m

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015045.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:30
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.608 | 4.550 | 4.664 | BB | 278083 | 2686457 | 97.87% | 5.183% |
| 2 | 6.272 | 6.210 | 6.349 | BB | 286433 | 2744877 | 100.00% | 5.296% |
| 3 | 7.365 | 7.322 | 7.455 | BB | 271004 | 2670985 | 97.31% | 5.153% |
| 4 | 7.990 | 7.929 | 8.060 | BB | 250828 | 2417165 | 88.06% | 4.664% |
| 5 | 8.665 | 8.624 | 8.739 | BB | 269367 | 2695701 | 98.21% | 5.201% |
| 6 | 8.864 | 8.799 | 8.929 | BV | 159884 | 1615201 | 58.84% | 3.116% |
| 7 | 8.964 | 8.929 | 9.030 | VB | 264030 | 2637860 | 96.10% | 5.089% |
| 8 | 9.752 | 9.682 | 9.805 | BB | 255350 | 2628156 | 95.75% | 5.071% |
| 9 | 11.157 | 11.079 | 11.195 | BV | 237971 | 2525902 | 92.02% | 4.873% |
| 10 | 11.232 | 11.195 | 11.284 | VV | 236771 | 2482553 | 90.44% | 4.790% |
| 11 | 11.925 | 11.857 | 11.975 | BB | 245351 | 2638586 | 96.13% | 5.091% |
| 12 | 12.976 | 12.944 | 13.025 | PB | 221846 | 2460902 | 89.65% | 4.748% |
| 13 | 13.275 | 13.214 | 13.310 | BV | 220371 | 2438991 | 88.86% | 4.706% |
| 14 | 15.152 | 15.015 | 15.173 | BV | 192575 | 2341059 | 85.29% | 4.517% |
| 15 | 15.195 | 15.173 | 15.274 | VB | 203477 | 2350968 | 85.65% | 4.536% |
| 16 | 16.709 | 16.625 | 16.725 | BV | 183003 | 2382838 | 86.81% | 4.597% |
| 17 | 16.742 | 16.725 | 16.807 | VB | 199893 | 2380446 | 86.72% | 4.593% |
| 18 | 17.089 | 17.020 | 17.160 | BV | 183000 | 2318007 | 84.45% | 4.472% |
| 19 | 18.460 | 18.410 | 18.478 | BV | 177811 | 2346148 | 85.47% | 4.527% |
| 20 | 18.500 | 18.478 | 18.600 | VB | 187947 | 2496360 | 90.95% | 4.816% |
| 21 | 18.717 | 18.660 | 18.800 | BBA | 197873 | 2570441 | 93.65% | 4.959% |
| | | | Sum of corrected areas: | | | 51829604 | | |

Aromatic EPH 111524.M Fri Nov 15 02:11:15 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015046.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:58
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 15 02:00:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.989 | 1273061 | 10.648 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 21.30% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.863 | 850976 | 10.630 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 21.26% |
| 11) S | ortho-Terphenyl (SURR) | 11.924 | 1402058 | 10.717 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 21.43% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.608 | 1417126 | 10.702 ug/ml |
| 2) T | Naphthalene (C11.7) | 6.272 | 1445570 | 10.684 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 7.364 | 1404290 | 10.633 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.664 | 1423984 | 10.660 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.962 | 1396444 | 10.685 ug/ml |
| 8) T | Flouorene (C16.55) | 9.751 | 1389870 | 10.642 ug/ml |
| 9) T | Phenanthrene (C19.36) | 11.156 | 1335378 | 10.638 ug/ml |
| 10) T | Anthracene (C19.43) | 11.230 | 1313361 | 10.662 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.974 | 1299695 | 10.636 ug/ml |
| 13) T | Pyrene (C20.8) | 13.273 | 1282082 | 10.610 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 15.150 | 1232832 | 10.650 ug/ml |
| 15) T | Chrysene (C27.41) | 15.192 | 1246385 | 10.735 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.706 | 1255307 | 10.663 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.737 | 1262152 | 10.799 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 17.087 | 1212692 | 10.675 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 18.456 | 1218869 | 10.512 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 18.496 | 1363538 | 11.281 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.711 | 1353291 | 10.732 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

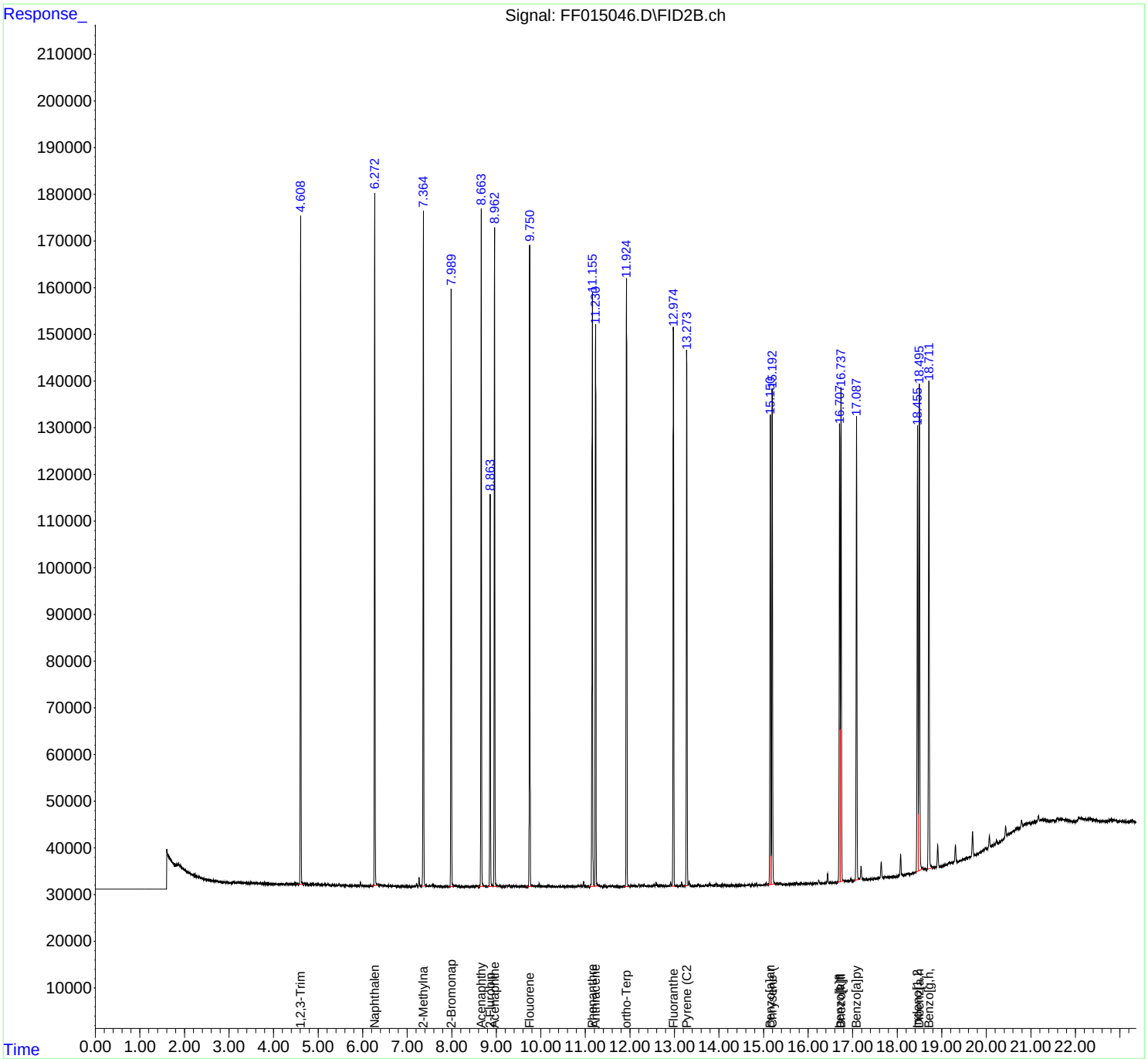
Quantitation Report (QT Reviewed)

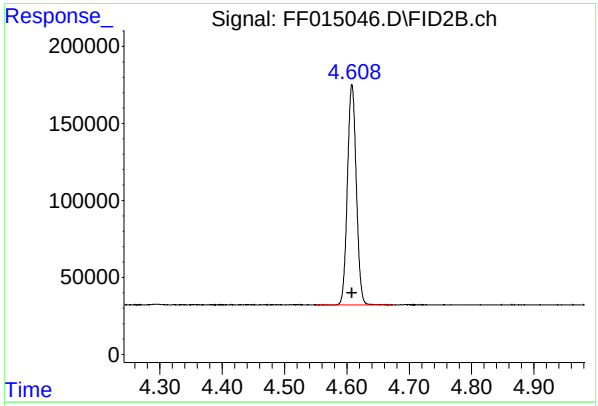
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015046.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:58
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 15 02:00:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

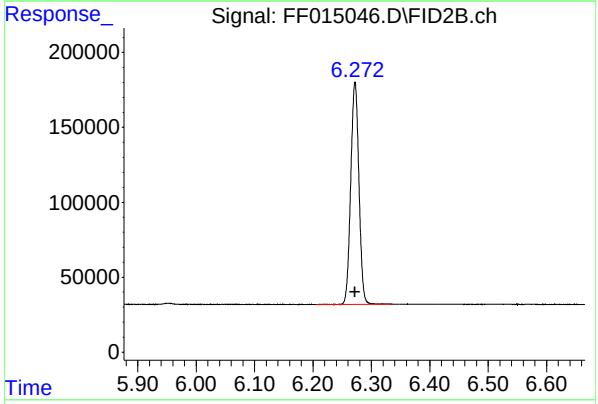





#1 1,2,3-Trimethylbenzene (C10.1)

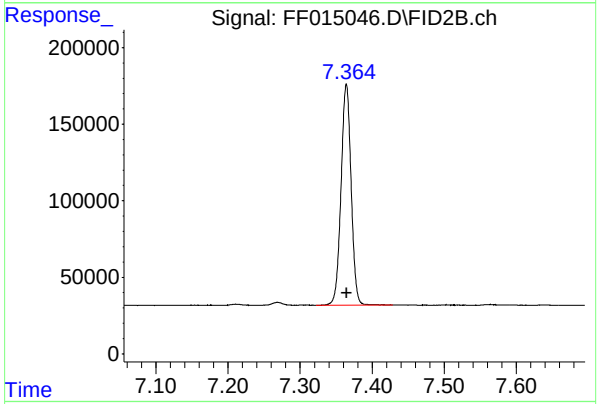
R.T.: 4.608 min
Delta R.T.: 0.000 min
Response: 1417126
Conc: 10.70 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
10 PPM AROMATIC HC STD4



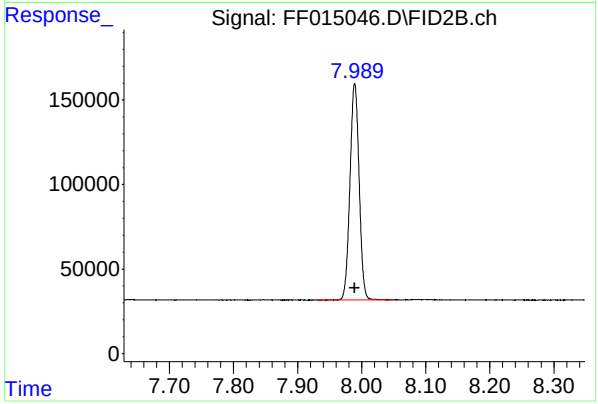

#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.000 min
Response: 1445570
Conc: 10.68 ug/ml



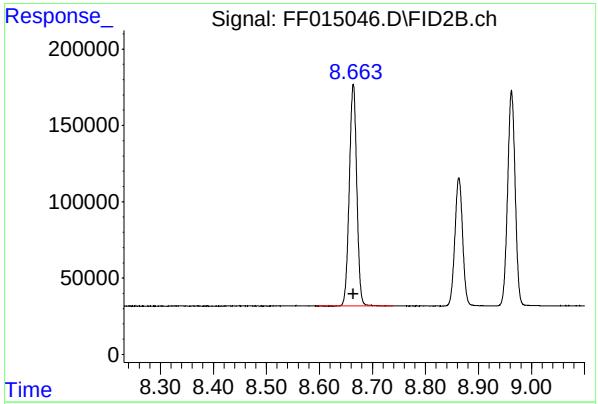

#3 2-Methylnaphthalene (C12.89)

R.T.: 7.364 min
Delta R.T.: 0.000 min
Response: 1404290
Conc: 10.63 ug/ml




#4 2-Bromonaphthalene (SURR)

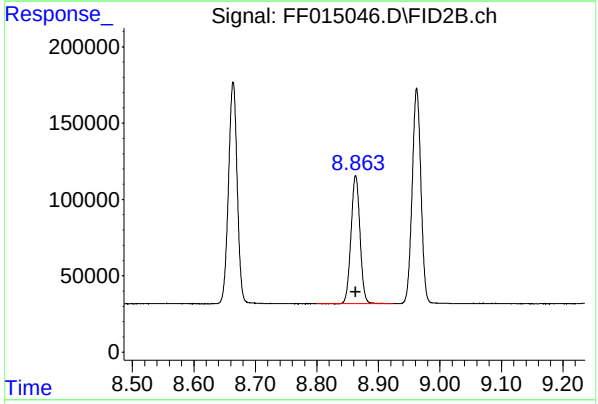
R.T.: 7.989 min
Delta R.T.: 0.000 min
Response: 1273061
Conc: 10.65 ug/ml




#5 Acenaphthylene (C15.06)

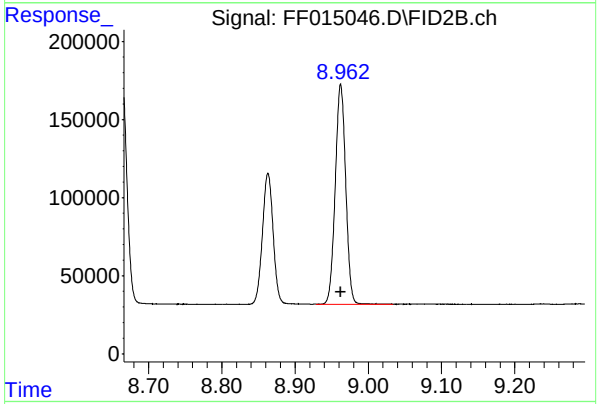
R.T.: 8.664 min
Delta R.T.: 0.000 min
Response: 1423984
Conc: 10.66 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
10 PPM AROMATIC HC STD4



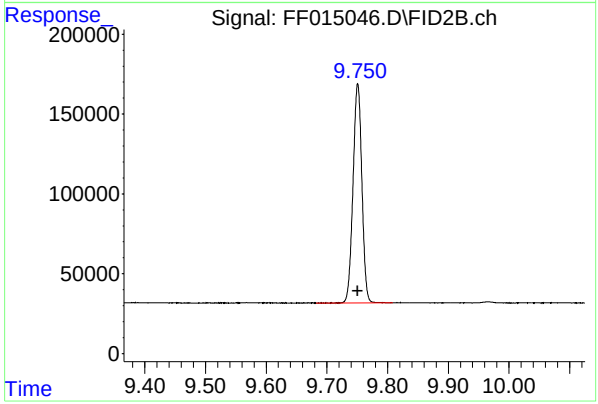

#6 2-Flurobiphenyl (SURR)

R.T.: 8.863 min
Delta R.T.: 0.000 min
Response: 850976
Conc: 10.63 ug/ml



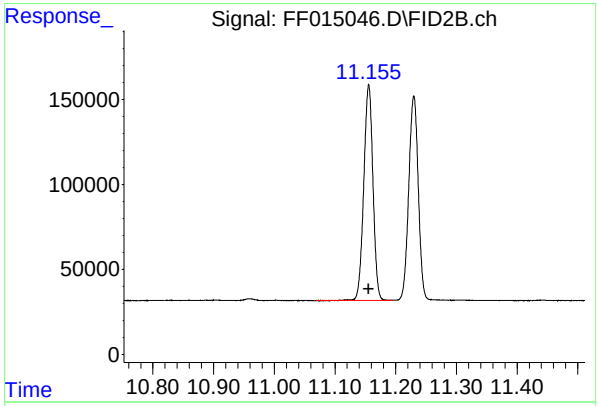

#7 Acenaphthene (C15.5)

R.T.: 8.962 min
Delta R.T.: 0.000 min
Response: 1396444
Conc: 10.69 ug/ml




#8 Flouorene (C16.55)

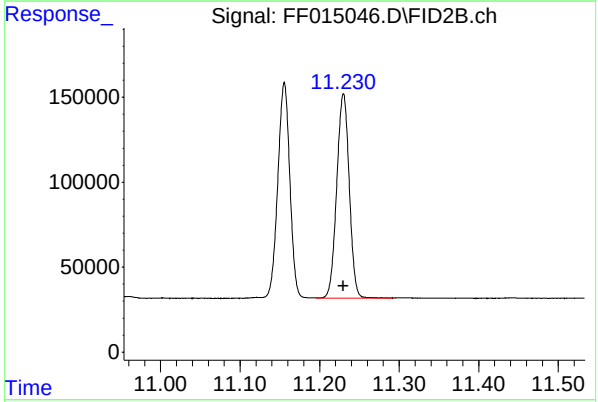
R.T.: 9.751 min
Delta R.T.: 0.000 min
Response: 1389870
Conc: 10.64 ug/ml




#9 Phenanthrene (C19.36)

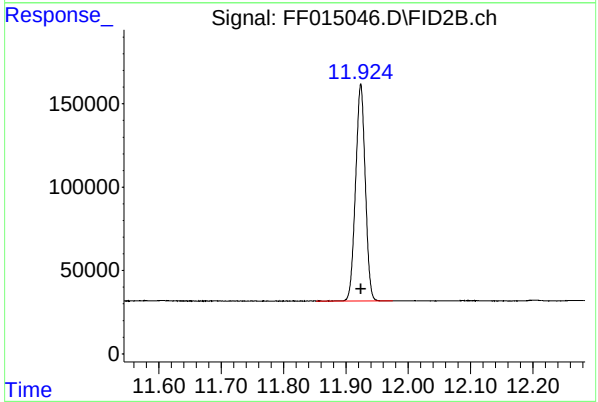
R.T.: 11.156 min
Delta R.T.: 0.000 min
Response: 1335378
Conc: 10.64 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
10 PPM AROMATIC HC STD4



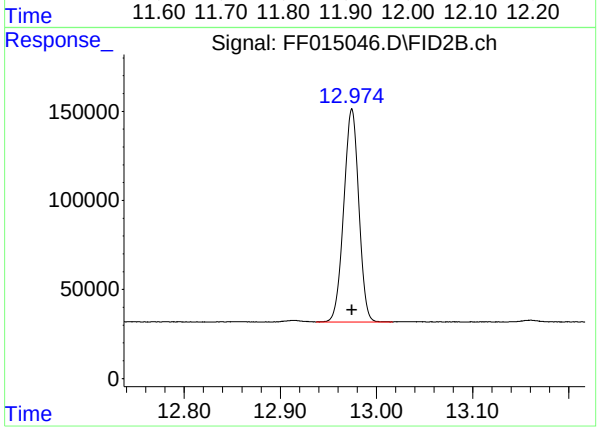

#10 Anthracene (C19.43)

R.T.: 11.230 min
Delta R.T.: 0.000 min
Response: 1313361
Conc: 10.66 ug/ml



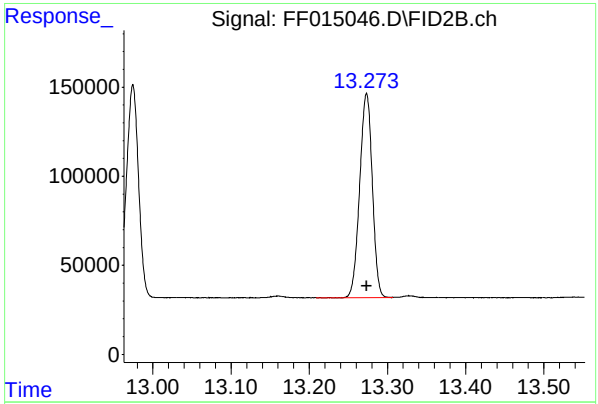

#11 ortho-Terphenyl (SURR)

R.T.: 11.924 min
Delta R.T.: 0.000 min
Response: 1402058
Conc: 10.72 ug/ml




#12 Fluoranthene (C21.85)

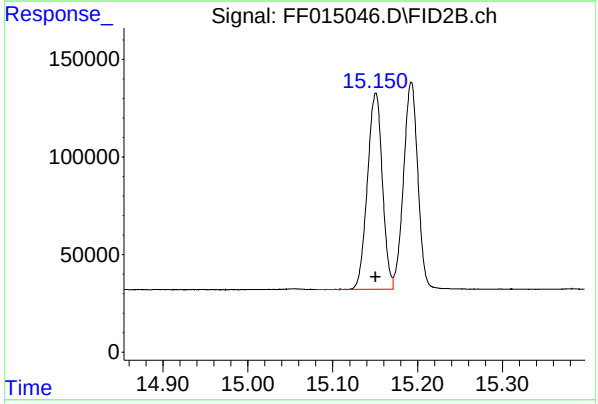
R.T.: 12.974 min
Delta R.T.: 0.000 min
Response: 1299695
Conc: 10.64 ug/ml




#13 Pyrene (C20.8)

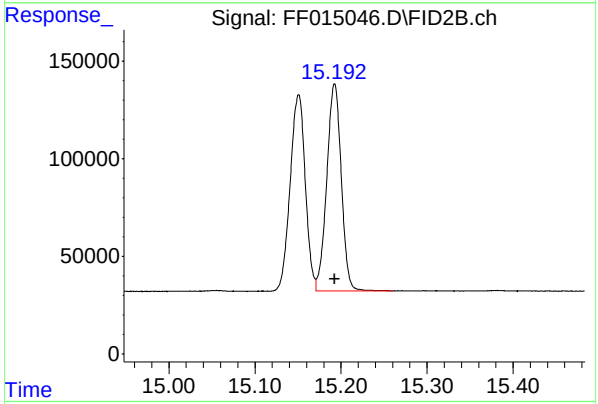
R.T.: 13.273 min
Delta R.T.: 0.000 min
Response: 1282082
Conc: 10.61 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
10 PPM AROMATIC HC STD4



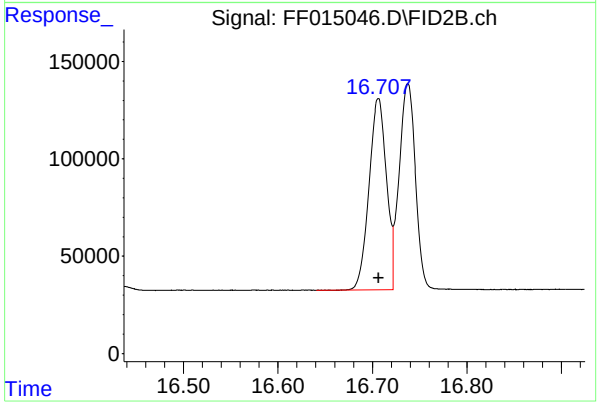

#14 Benzo[a]anthracene (C26.37)

R.T.: 15.150 min
Delta R.T.: 0.000 min
Response: 1232832
Conc: 10.65 ug/ml



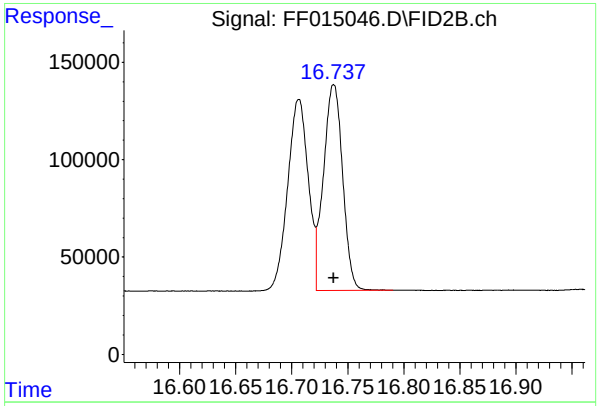

#15 Chrysene (C27.41)

R.T.: 15.192 min
Delta R.T.: 0.000 min
Response: 1246385
Conc: 10.73 ug/ml




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

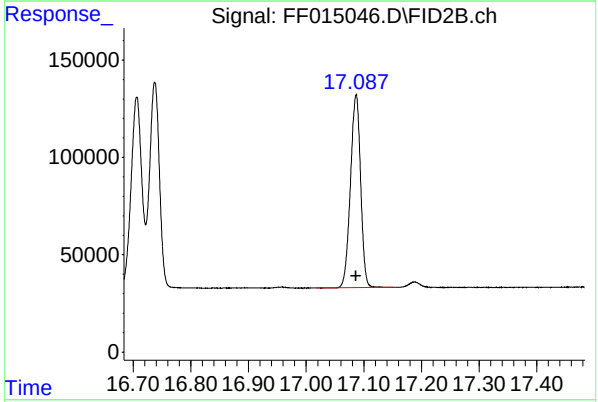
R.T.: 16.706 min
Delta R.T.: 0.000 min
Response: 1255307
Conc: 10.66 ug/ml




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

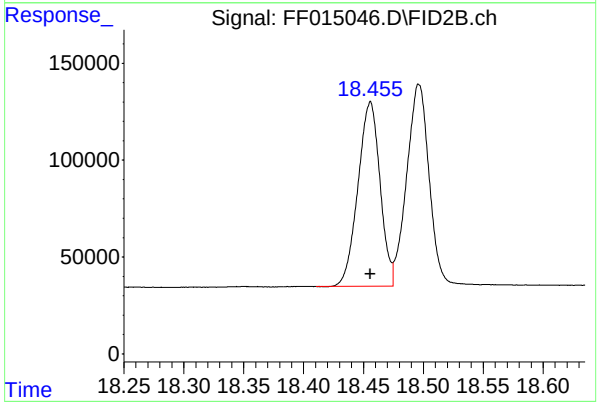
R.T.: 16.737 min
Delta R.T.: 0.000 mi
Response: 1262152
Conc: 10.80 ug/m

**Instrument :**
FID_F
**ClientSampleId :**
10 PPM AROMATIC HC STD4



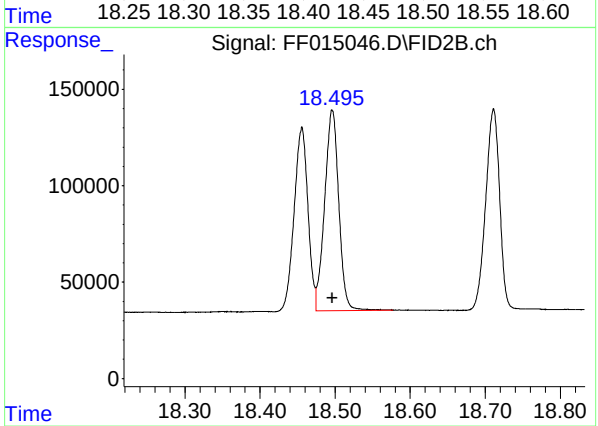

#18 Benzo[a]pyrene (C31.34)

R.T.: 17.087 min
Delta R.T.: 0.000 min
Response: 1212692
Conc: 10.67 ug/ml



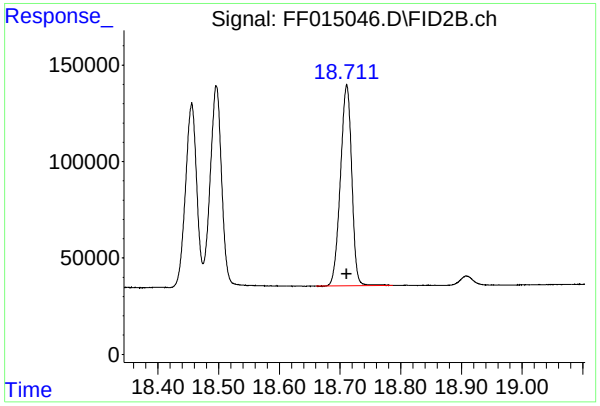

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.456 min
Delta R.T.: 0.000 min
Response: 1218869
Conc: 10.51 ug/ml




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

R.T.: 18.496 min
Delta R.T.: 0.000 min
Response: 1363538
Conc: 11.28 ug/ml




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

R.T.: 18.711 min
Delta R.T.: 0.000 mi
Response: 1353291
Conc: 10.73 ug/m

**Instrument :**
FID_F
**ClientSampleId :**
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015046.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:58
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.608 | 4.550 | 4.674 | BB | 143251 | 1417126 | 98.03% | 5.176% |
| 2 | 6.272 | 6.205 | 6.337 | BB | 148542 | 1445570 | 100.00% | 5.280% |
| 3 | 7.364 | 7.322 | 7.429 | BB | 144290 | 1404290 | 97.14% | 5.129% |
| 4 | 7.989 | 7.929 | 8.049 | BB | 128159 | 1273061 | 88.07% | 4.650% |
| 5 | 8.664 | 8.594 | 8.739 | BB | 145479 | 1423984 | 98.51% | 5.201% |
| 6 | 8.863 | 8.799 | 8.924 | BB | 83829 | 850976 | 58.87% | 3.108% |
| 7 | 8.962 | 8.929 | 9.034 | BB | 140967 | 1396444 | 96.60% | 5.100% |
| 8 | 9.751 | 9.682 | 9.809 | BB | 137386 | 1389870 | 96.15% | 5.076% |
| 9 | 11.156 | 11.069 | 11.195 | BV | 127059 | 1335378 | 92.38% | 4.877% |
| 10 | 11.230 | 11.195 | 11.292 | VB | 120584 | 1313361 | 90.85% | 4.797% |
| 11 | 11.924 | 11.852 | 11.975 | BB | 130126 | 1402058 | 96.99% | 5.121% |
| 12 | 12.974 | 12.937 | 13.017 | PB | 119410 | 1299695 | 89.91% | 4.747% |
| 13 | 13.273 | 13.209 | 13.307 | BV | 114816 | 1282082 | 88.69% | 4.683% |
| 14 | 15.151 | 15.080 | 15.171 | BV | 100824 | 1232832 | 85.28% | 4.503% |
| 15 | 15.192 | 15.171 | 15.260 | VB | 106359 | 1246385 | 86.22% | 4.552% |
| 16 | 16.706 | 16.640 | 16.722 | BV | 98587 | 1255307 | 86.84% | 4.585% |
| 17 | 16.737 | 16.722 | 16.790 | VB | 105922 | 1262152 | 87.31% | 4.610% |
| 18 | 17.087 | 17.017 | 17.150 | BB | 99434 | 1212692 | 83.89% | 4.429% |
| 19 | 18.456 | 18.410 | 18.475 | BV | 95099 | 1218869 | 84.32% | 4.452% |
| 20 | 18.496 | 18.475 | 18.577 | VB | 104040 | 1363538 | 94.33% | 4.980% |
| 21 | 18.711 | 18.660 | 18.787 | BB | 104146 | 1353291 | 93.62% | 4.943% |
| | | | Sum of corrected areas: | | | 27378959 | | |

Aromatic EPH 111524.M Fri Nov 15 02:11:44 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015047.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:27
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Nov 15 02:01:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.989 | 661811 | 5.420 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 10.84% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.862 | 439890 | 5.388 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 10.78% |
| 11) S | ortho-Terphenyl (SURR) | 11.923 | 737041 | 5.494 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 10.99% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.608 | 738465 | 5.451 ug/ml |
| 2) T | Naphthalene (C11.7) | 6.272 | 746372 | 5.405 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 7.364 | 730162 | 5.414 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.663 | 742151 | 5.435 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.961 | 727345 | 5.442 ug/ml |
| 8) T | Flouorene (C16.55) | 9.749 | 725199 | 5.433 ug/ml |
| 9) T | Phenanthrene (C19.36) | 11.155 | 699717 | 5.449 ug/ml |
| 10) T | Anthracene (C19.43) | 11.229 | 690077 | 5.470 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.974 | 682318 | 5.456 ug/ml |
| 13) T | Pyrene (C20.8) | 13.272 | 671431 | 5.435 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 15.149 | 648569 | 5.471 ug/ml |
| 15) T | Chrysene (C27.41) | 15.191 | 663253 | 5.554 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.704 | 665220 | 5.507 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.736 | 672090 | 5.583 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 17.084 | 641313 | 5.503 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 18.452 | 644590 | 5.438 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 18.494 | 778478 | 6.090 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.707 | 721502 | 5.561 ug/ml |

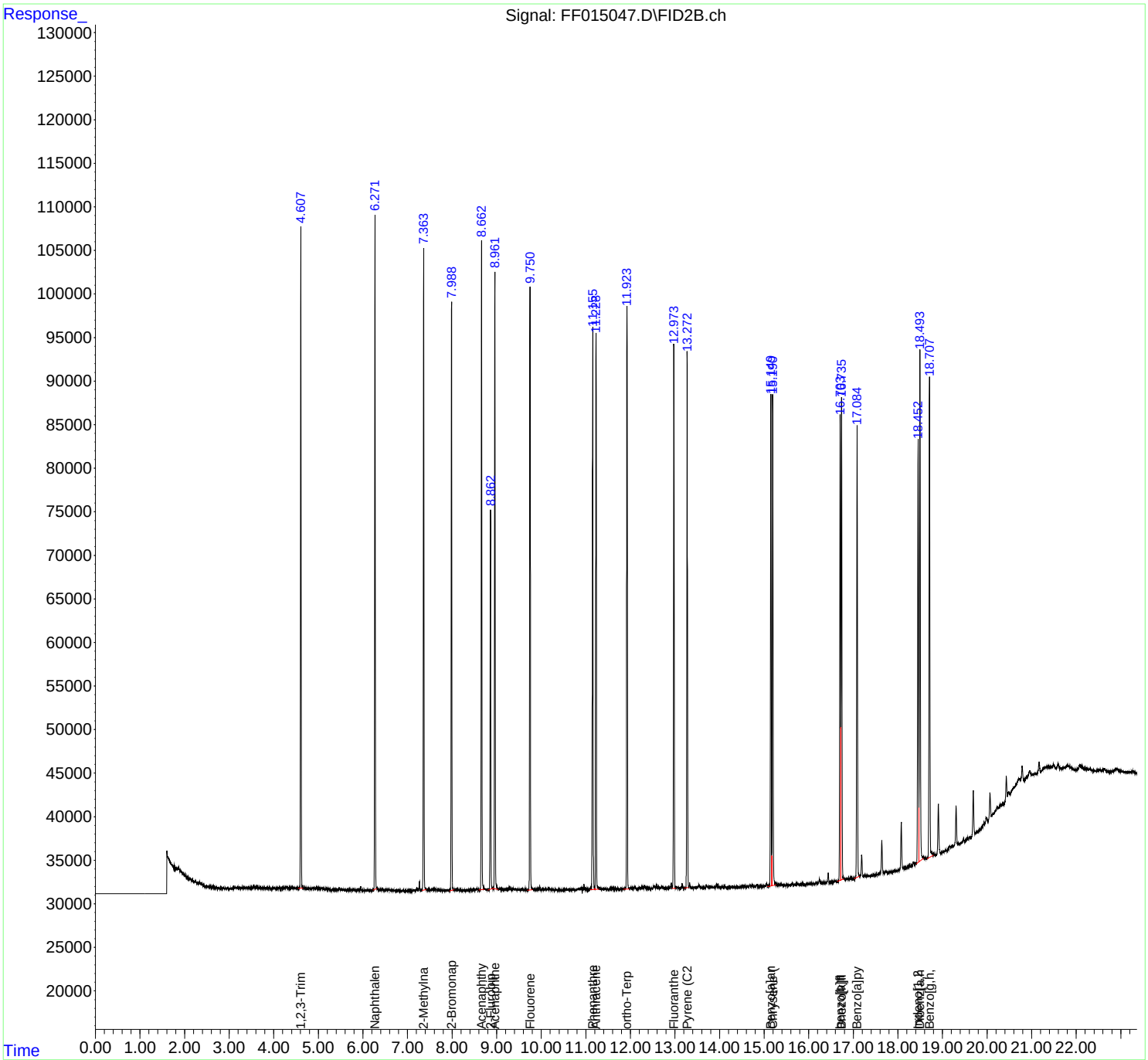
(f)=RT Delta > 1/2 Window (m)=manual int.

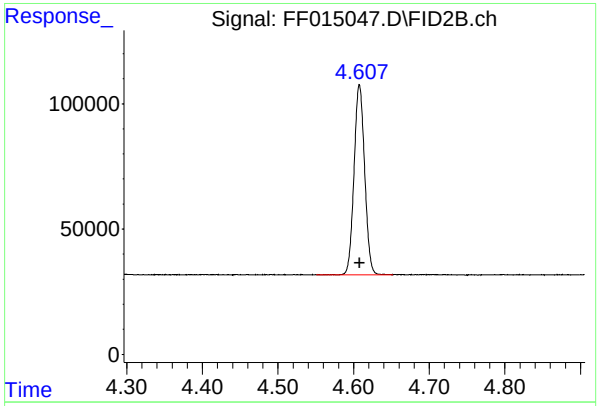
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015047.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:27
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Nov 15 02:01:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

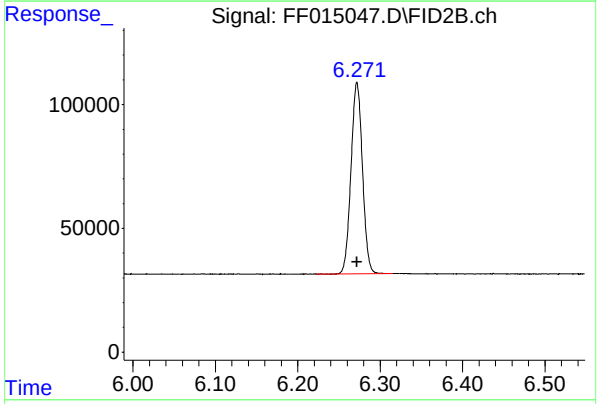





#1 1,2,3-Trimethylbenzene (C10.1)

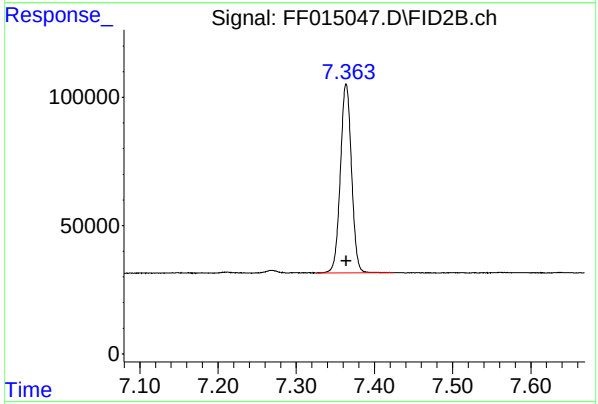
R.T.: 4.608 min
Delta R.T.: 0.000 min
Response: 738465
Conc: 5.45 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
5 PPM AROMATIC HC STD5



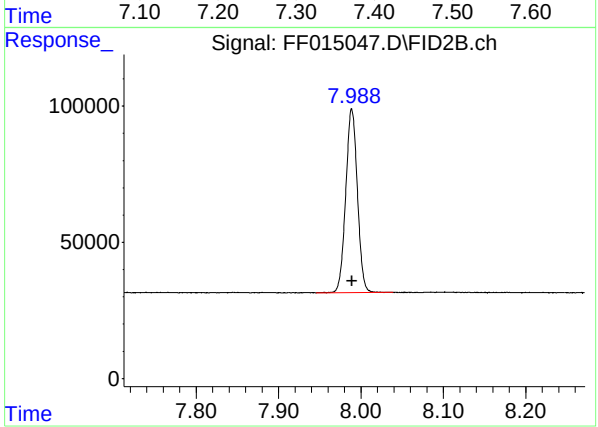

#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.000 min
Response: 746372
Conc: 5.40 ug/ml



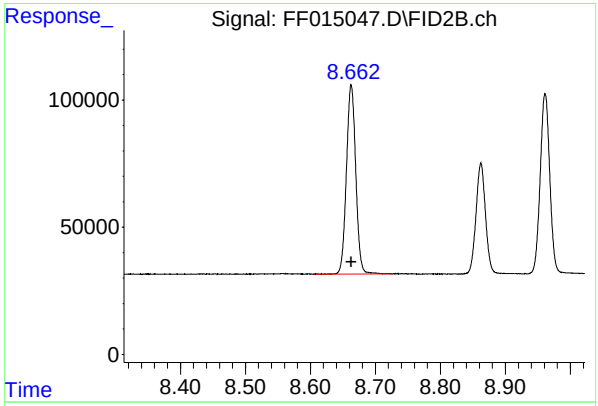

#3 2-Methylnaphthalene (C12.89)

R.T.: 7.364 min
Delta R.T.: 0.000 min
Response: 730162
Conc: 5.41 ug/ml




#4 2-Bromonaphthalene (SURR)

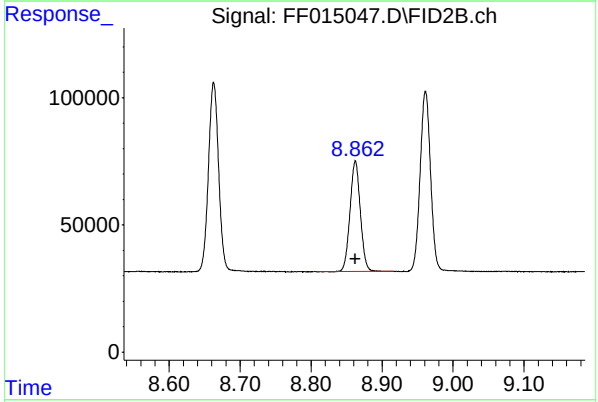
R.T.: 7.989 min
Delta R.T.: 0.000 min
Response: 661811
Conc: 5.42 ug/ml




#5 Acenaphthylene (C15.06)

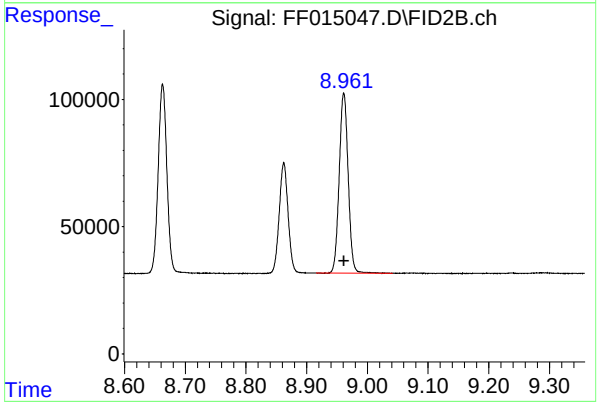
R.T.: 8.663 min
Delta R.T.: 0.000 min
Response: 742151
Conc: 5.43 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
5 PPM AROMATIC HC STD5



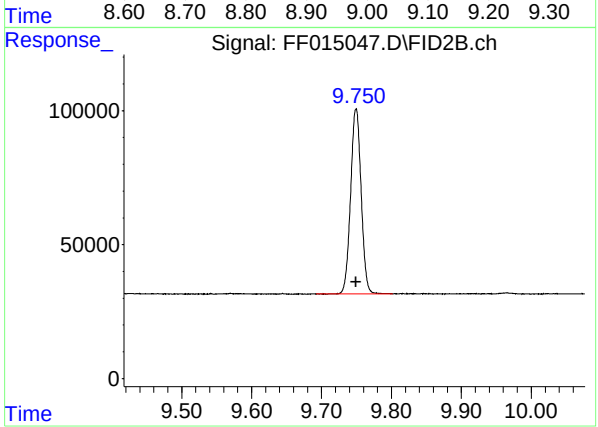

#6 2-Flurobiphenyl (SURR)

R.T.: 8.862 min
Delta R.T.: 0.000 min
Response: 439890
Conc: 5.39 ug/ml



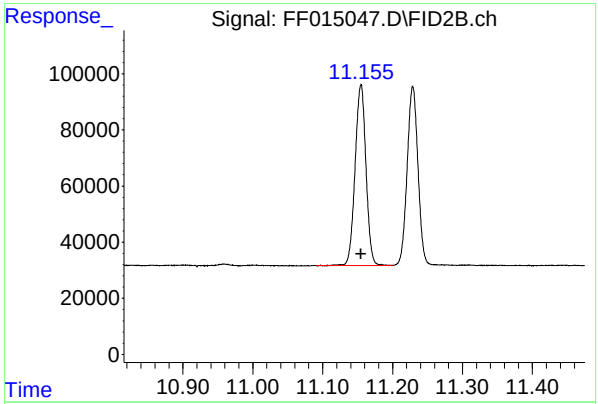

#7 Acenaphthene (C15.5)

R.T.: 8.961 min
Delta R.T.: 0.000 min
Response: 727345
Conc: 5.44 ug/ml




#8 Flouorene (C16.55)

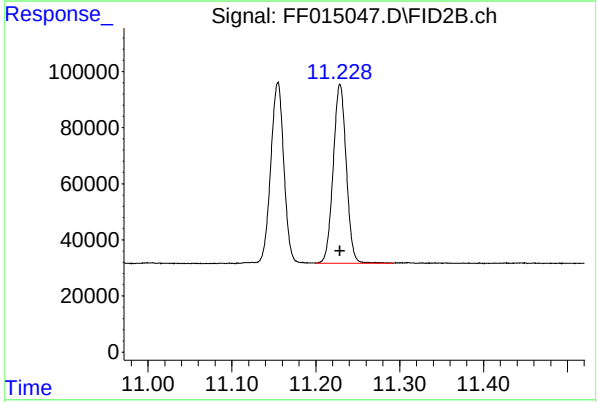
R.T.: 9.749 min
Delta R.T.: 0.000 min
Response: 725199
Conc: 5.43 ug/ml




#9 Phenanthrene (C19.36)

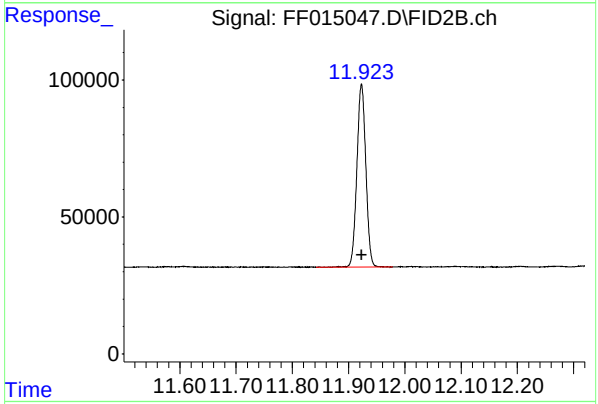
R.T.: 11.155 min
Delta R.T.: 0.000 min
Response: 699717
Conc: 5.45 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
5 PPM AROMATIC HC STD5



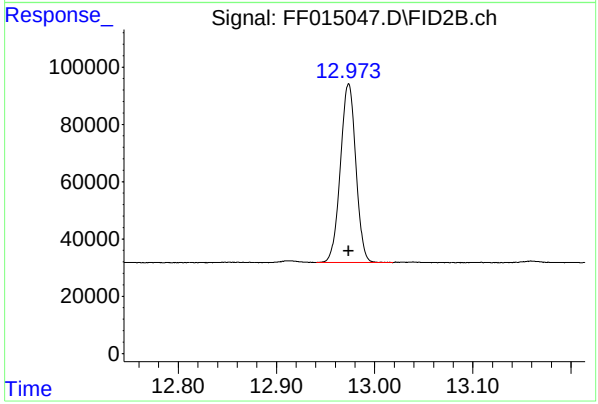

#10 Anthracene (C19.43)

R.T.: 11.229 min
Delta R.T.: 0.000 min
Response: 690077
Conc: 5.47 ug/ml



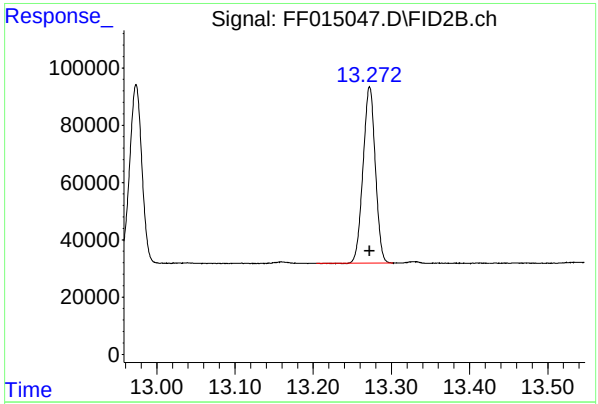

#11 ortho-Terphenyl (SURR)

R.T.: 11.923 min
Delta R.T.: 0.000 min
Response: 737041
Conc: 5.49 ug/ml




#12 Fluoranthene (C21.85)

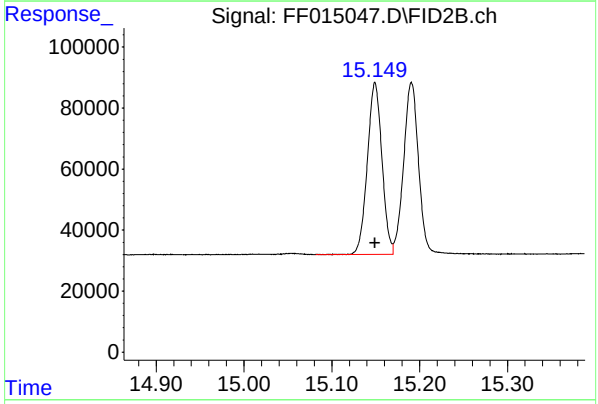
R.T.: 12.974 min
Delta R.T.: 0.000 min
Response: 682318
Conc: 5.46 ug/ml




#13 Pyrene (C20.8)

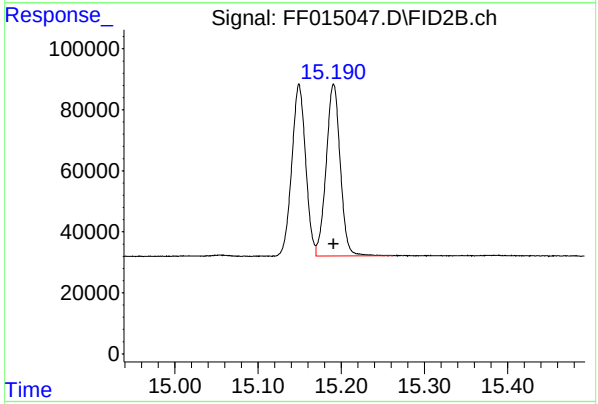
R.T.: 13.272 min
Delta R.T.: 0.000 min
Response: 671431
Conc: 5.44 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
5 PPM AROMATIC HC STD5



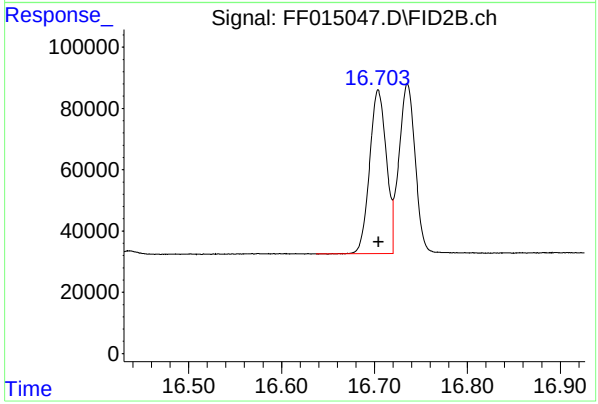

#14 Benzo[a]anthracene (C26.37)

R.T.: 15.149 min
Delta R.T.: 0.000 min
Response: 648569
Conc: 5.47 ug/ml



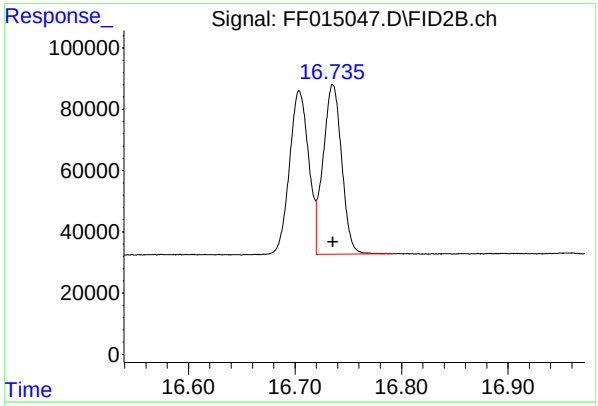

#15 Chrysene (C27.41)

R.T.: 15.191 min
Delta R.T.: 0.000 min
Response: 663253
Conc: 5.55 ug/ml




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

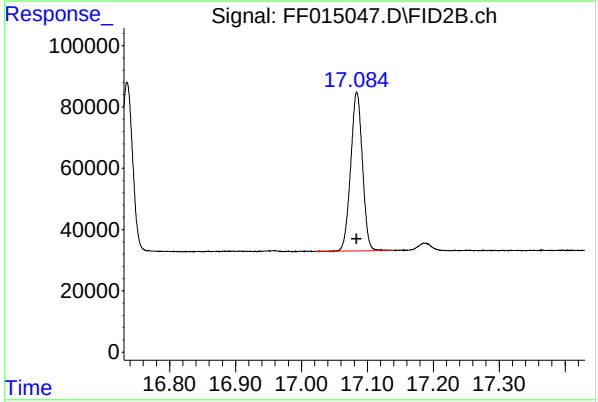
R.T.: 16.704 min
Delta R.T.: 0.000 min
Response: 665220
Conc: 5.51 ug/ml




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

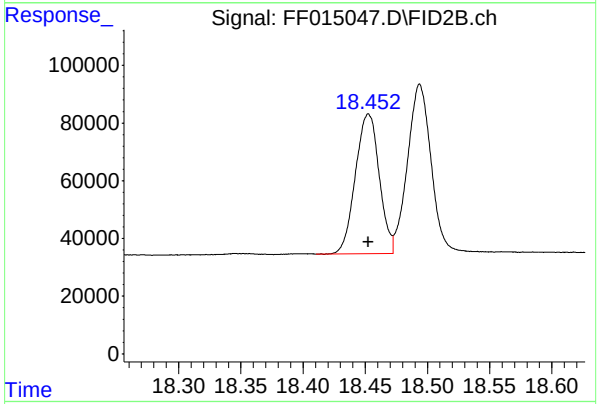
R.T.: 16.736 min
Delta R.T.: 0.000 min
Response: 672090
Conc: 5.58 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
5 PPM AROMATIC HC STD5



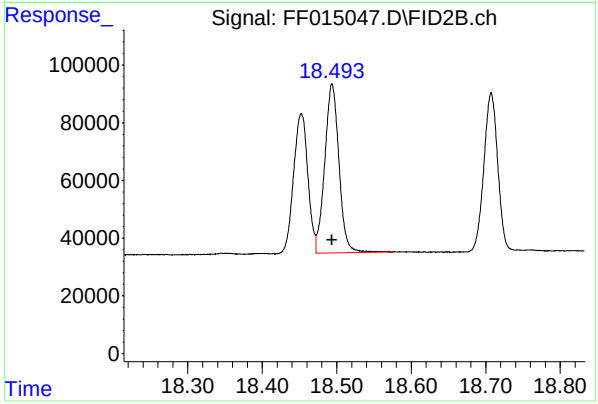

#18 Benzo[a]pyrene (C31.34)

R.T.: 17.084 min
Delta R.T.: 0.000 min
Response: 641313
Conc: 5.50 ug/ml



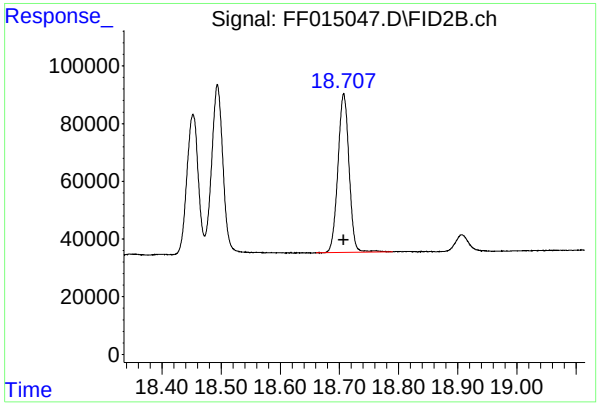

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.452 min
Delta R.T.: 0.000 min
Response: 644590
Conc: 5.44 ug/ml




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

R.T.: 18.494 min
Delta R.T.: 0.000 min
Response: 778478
Conc: 6.09 ug/ml




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

R.T.: 18.707 min
Delta R.T.: 0.000 mi
Response: 721502
Conc: 5.56 ug/m

**Instrument :**
FID_F
**ClientSampleId :**
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015047.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:27
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.608 | 4.550 | 4.652 | BB | 75923 | 738465 | 94.86% | 5.119% |
| 2 | 6.272 | 6.222 | 6.315 | BB | 77254 | 746372 | 95.88% | 5.173% |
| 3 | 7.364 | 7.325 | 7.424 | BB | 73619 | 730162 | 93.79% | 5.061% |
| 4 | 7.989 | 7.945 | 8.039 | BB | 67438 | 661811 | 85.01% | 4.587% |
| 5 | 8.663 | 8.609 | 8.727 | BB | 74481 | 742151 | 95.33% | 5.144% |
| 6 | 8.862 | 8.807 | 8.915 | BB | 43387 | 439890 | 56.51% | 3.049% |
| 7 | 8.961 | 8.915 | 9.042 | BB | 70819 | 727345 | 93.43% | 5.042% |
| 8 | 9.750 | 9.692 | 9.802 | BB | 69210 | 725199 | 93.16% | 5.027% |
| 9 | 11.155 | 11.090 | 11.200 | BV | 64931 | 699717 | 89.88% | 4.850% |
| 10 | 11.229 | 11.200 | 11.292 | VB | 63887 | 690077 | 88.64% | 4.783% |
| 11 | 11.923 | 11.842 | 11.979 | BB | 66831 | 737041 | 94.68% | 5.109% |
| 12 | 12.974 | 12.940 | 13.019 | VB | 62484 | 682318 | 87.65% | 4.729% |
| 13 | 13.272 | 13.204 | 13.302 | BV | 61667 | 671431 | 86.25% | 4.654% |
| 14 | 15.149 | 15.082 | 15.170 | BV | 56296 | 648569 | 83.31% | 4.496% |
| 15 | 15.191 | 15.170 | 15.262 | VB | 56376 | 663253 | 85.20% | 4.597% |
| 16 | 16.704 | 16.637 | 16.720 | BV | 53410 | 665220 | 85.45% | 4.611% |
| 17 | 16.736 | 16.720 | 16.792 | VB | 55357 | 672090 | 86.33% | 4.659% |
| 18 | 17.084 | 17.022 | 17.139 | BB | 51827 | 641313 | 82.38% | 4.445% |
| 19 | 18.452 | 18.410 | 18.472 | BV | 48458 | 644590 | 82.80% | 4.468% |
| 20 | 18.494 | 18.472 | 18.575 | VB | 58621 | 778478 | 100.00% | 5.396% |
| 21 | 18.707 | 18.660 | 18.790 | BB | 55077 | 721502 | 92.68% | 5.001% |
| | | | Sum of corrected areas: | | | 14426996 | | |

Aromatic EPH 111524.M Fri Nov 15 02:12:05 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015048.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:55
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 15 02:04:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.990 | 2307596 | 18.897 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 37.79% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.863 | 1548832 | 18.971 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 37.94% |
| 11) S | ortho-Terphenyl (SURR) | 11.924 | 2541843 | 18.948 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 37.90% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.608 | 2544338 | 18.781 ug/ml |
| 2) T | Naphthalene (C11.7) | 6.272 | 2614528 | 18.933 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 7.365 | 2547059 | 18.886 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.664 | 2585134 | 18.931 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.963 | 2529120 | 18.924 ug/ml |
| 8) T | Flouorene (C16.55) | 9.751 | 2528998 | 18.946 ug/ml |
| 9) T | Phenanthrene (C19.36) | 11.156 | 2429410 | 18.919 ug/ml |
| 10) T | Anthracene (C19.43) | 11.231 | 2382894 | 18.890 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.975 | 2366132 | 18.921 ug/ml |
| 13) T | Pyrene (C20.8) | 13.274 | 2342086 | 18.959 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 15.151 | 2224057 | 18.760 ug/ml |
| 15) T | Chrysene (C27.41) | 15.194 | 2235234 | 18.718 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.709 | 2259609 | 18.707 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.741 | 2254846 | 18.730 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 17.089 | 2178925 | 18.698 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 18.458 | 2181342 | 18.401 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 18.498 | 2329278 | 18.221 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.715 | 2422583 | 18.672 ug/ml |

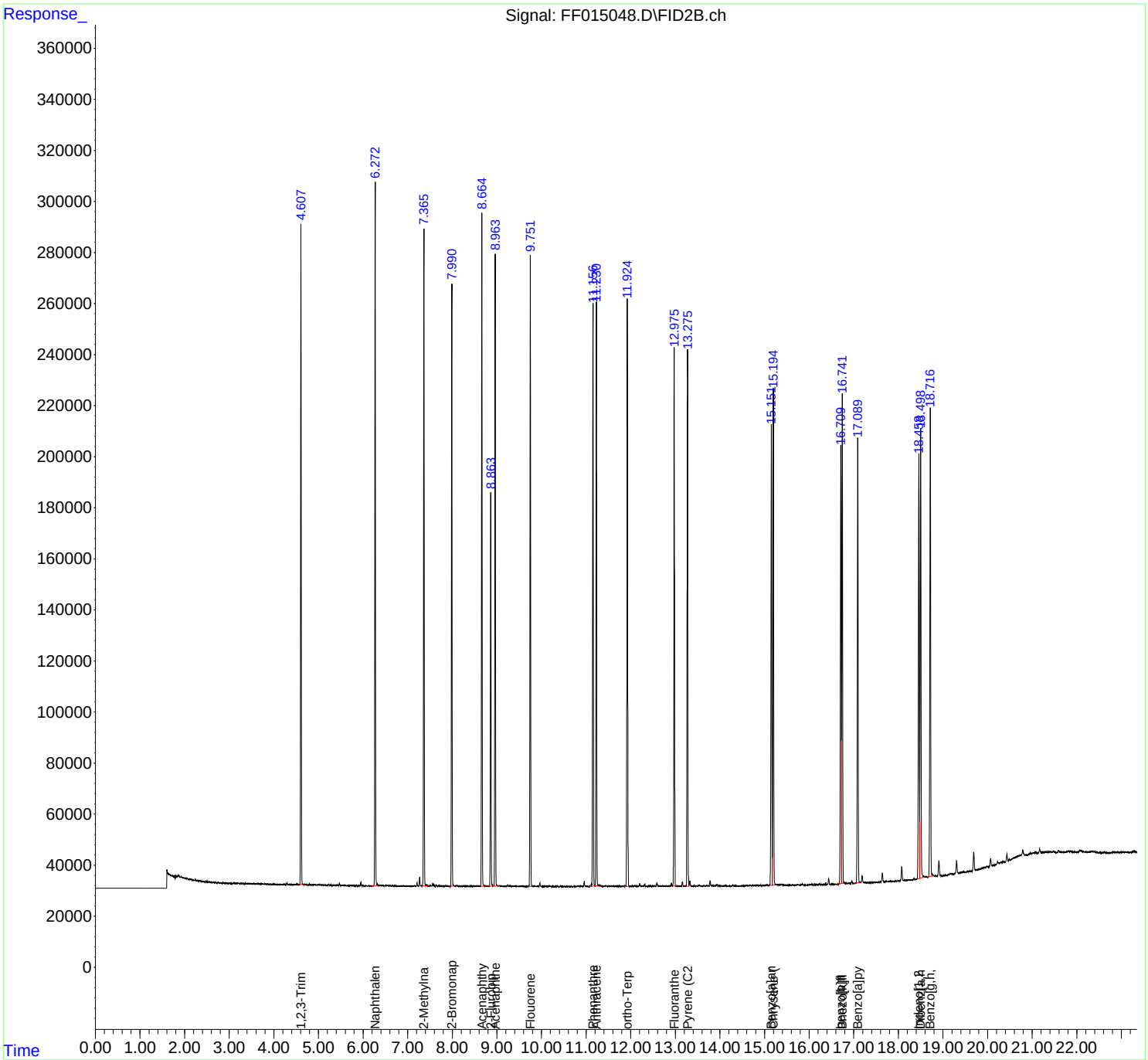
(f)=RT Delta > 1/2 Window (m)=manual int.

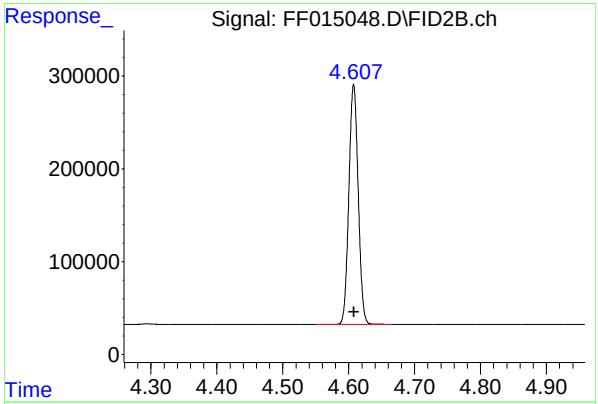
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015048.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:55
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 15 02:04:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

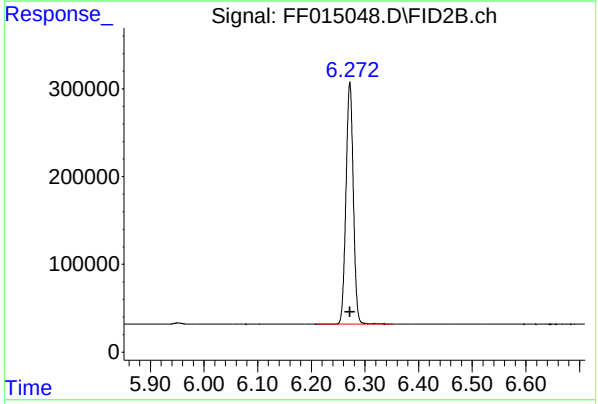





#1 1,2,3-Trimethylbenzene (C10.1)

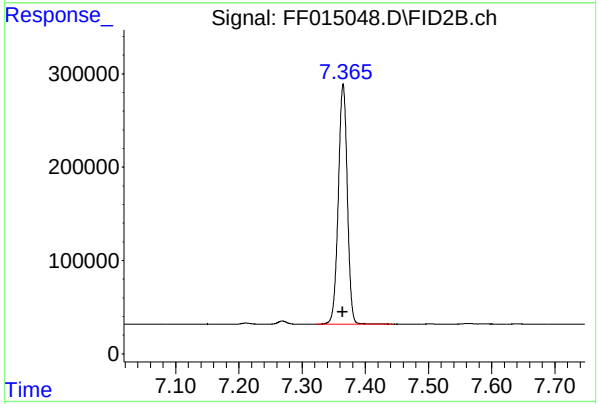
R.T.: 4.608 min
Delta R.T.: 0.000 min
Response: 2544338
Conc: 18.78 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV



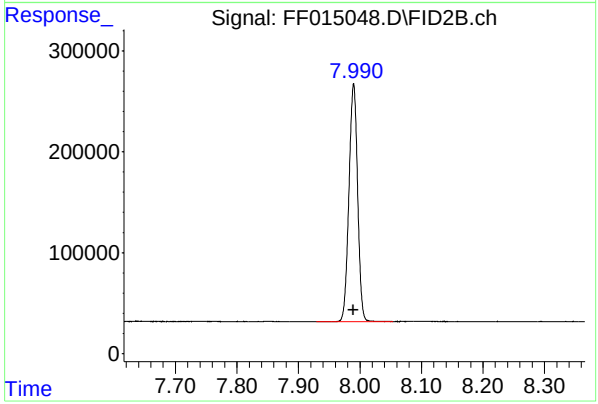

#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.000 min
Response: 2614528
Conc: 18.93 ug/ml



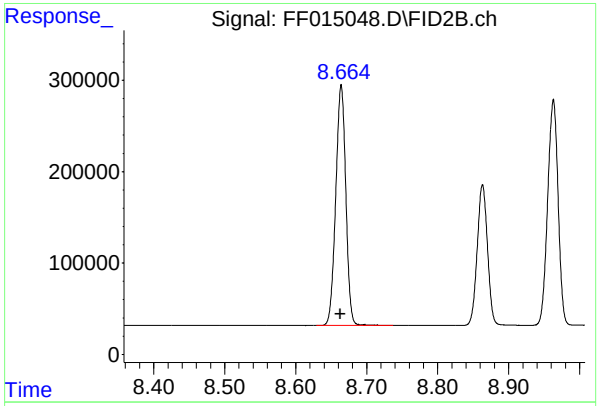

#3 2-Methylnaphthalene (C12.89)

R.T.: 7.365 min
Delta R.T.: 0.000 min
Response: 2547059
Conc: 18.89 ug/ml




#4 2-Bromonaphthalene (SURR)

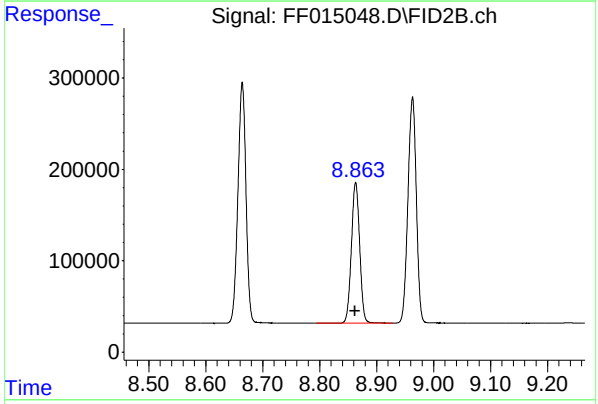
R.T.: 7.990 min
Delta R.T.: 0.000 min
Response: 2307596
Conc: 18.90 ug/ml




#5 Acenaphthylene (C15.06)

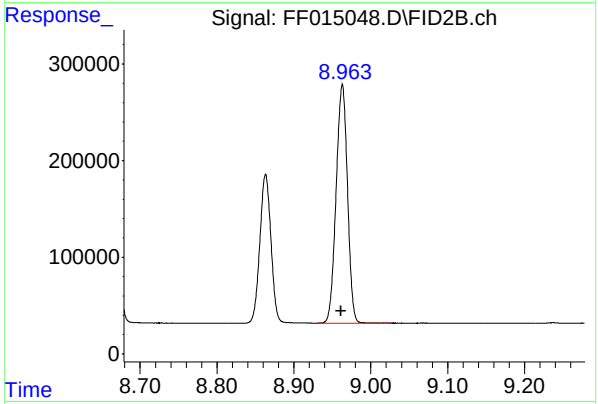
R.T.: 8.664 min
Delta R.T.: 0.001 min
Response: 2585134
Conc: 18.93 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV



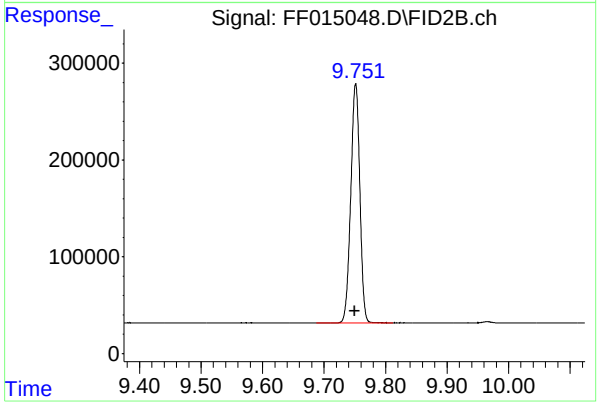

#6 2-Flurobiphenyl (SURR)

R.T.: 8.863 min
Delta R.T.: 0.000 min
Response: 1548832
Conc: 18.97 ug/ml



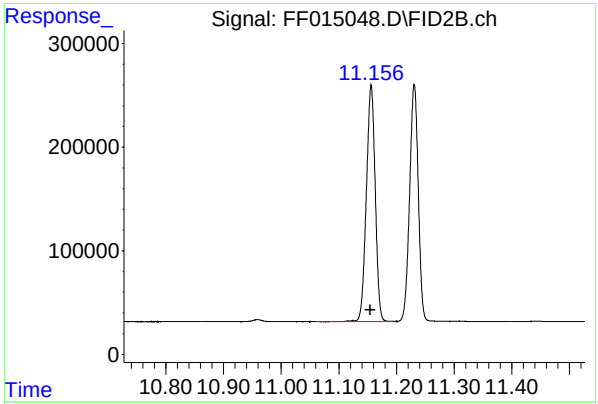

#7 Acenaphthene (C15.5)

R.T.: 8.963 min
Delta R.T.: 0.002 min
Response: 2529120
Conc: 18.92 ug/ml




#8 Flouorene (C16.55)

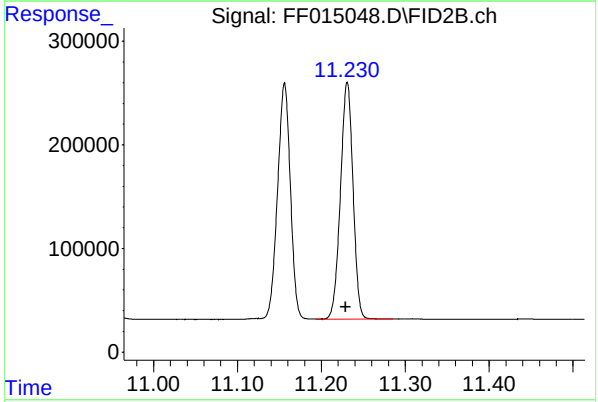
R.T.: 9.751 min
Delta R.T.: 0.002 min
Response: 2528998
Conc: 18.95 ug/ml




#9 Phenanthrene (C19.36)

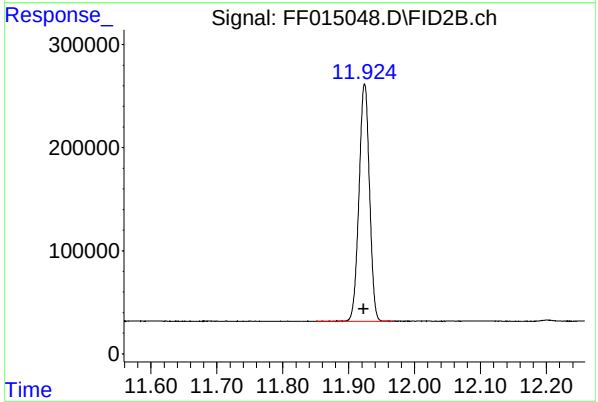
R.T.: 11.156 min
Delta R.T.: 0.001 min
Response: 2429410
Conc: 18.92 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV



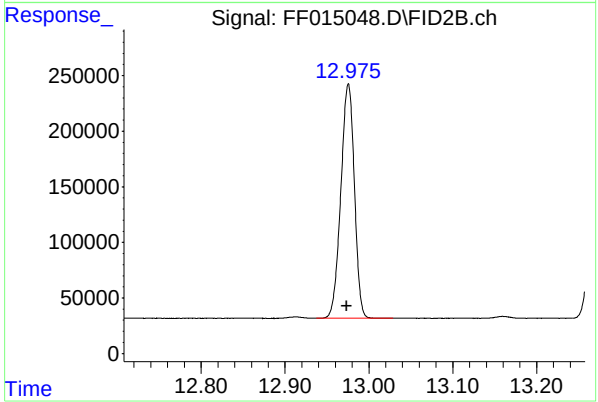

#10 Anthracene (C19.43)

R.T.: 11.231 min
Delta R.T.: 0.002 min
Response: 2382894
Conc: 18.89 ug/ml



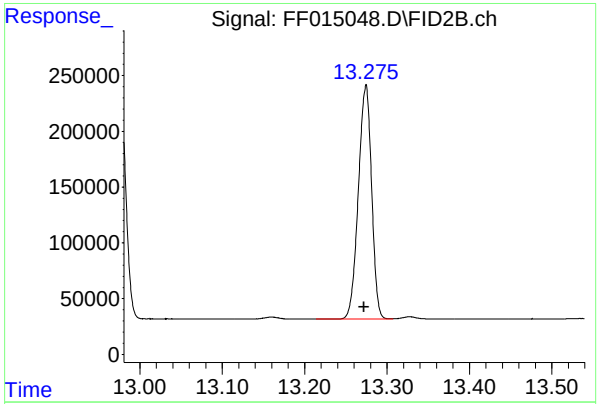

#11 ortho-Terphenyl (SURR)

R.T.: 11.924 min
Delta R.T.: 0.001 min
Response: 2541843
Conc: 18.95 ug/ml




#12 Fluoranthene (C21.85)

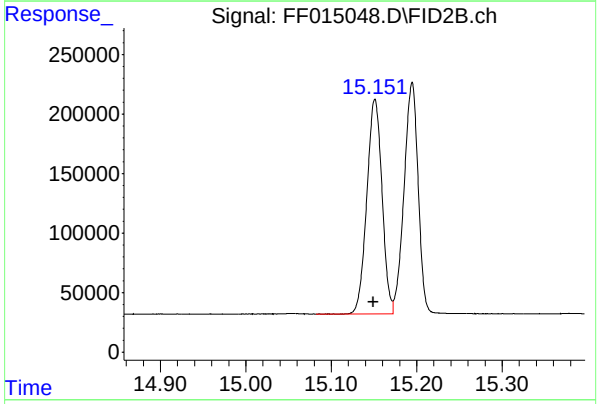
R.T.: 12.975 min
Delta R.T.: 0.002 min
Response: 2366132
Conc: 18.92 ug/ml




#13 Pyrene (C20.8)

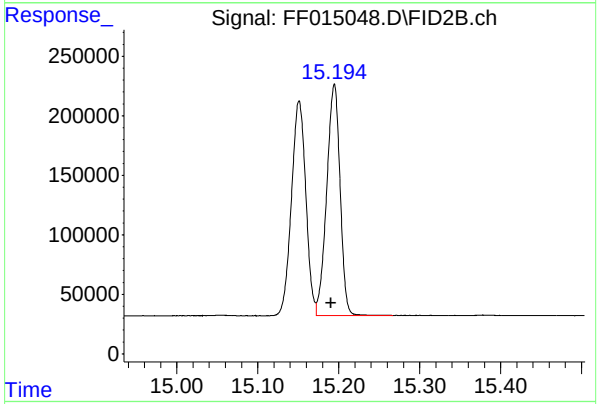
R.T.: 13.274 min
Delta R.T.: 0.002 min
Response: 2342086
Conc: 18.96 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV



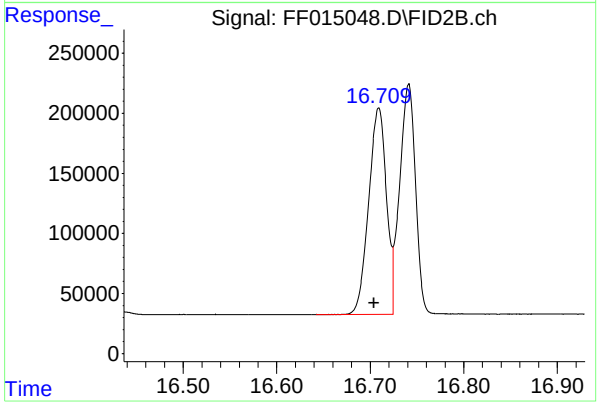

#14 Benzo[a]anthracene (C26.37)

R.T.: 15.151 min
Delta R.T.: 0.002 min
Response: 2224057
Conc: 18.76 ug/ml



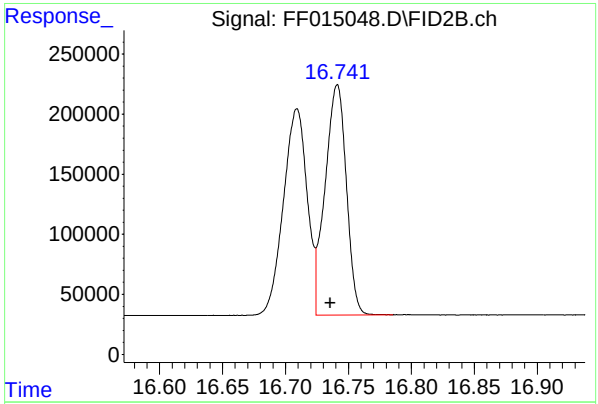

#15 Chrysene (C27.41)

R.T.: 15.194 min
Delta R.T.: 0.004 min
Response: 2235234
Conc: 18.72 ug/ml




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

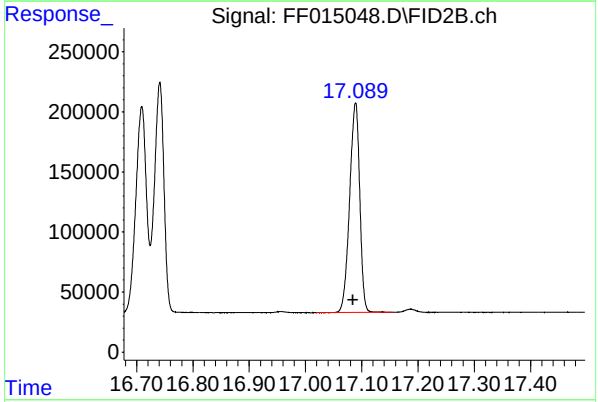
R.T.: 16.709 min
Delta R.T.: 0.005 min
Response: 2259609
Conc: 18.71 ug/ml




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

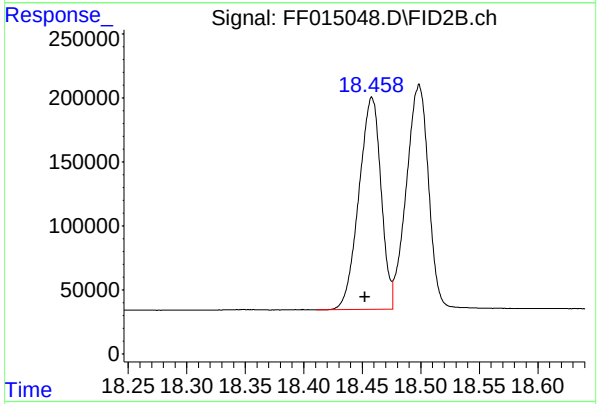
R.T.: 16.741 min
Delta R.T.: 0.005 min
Response: 2254846
Conc: 18.73 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV



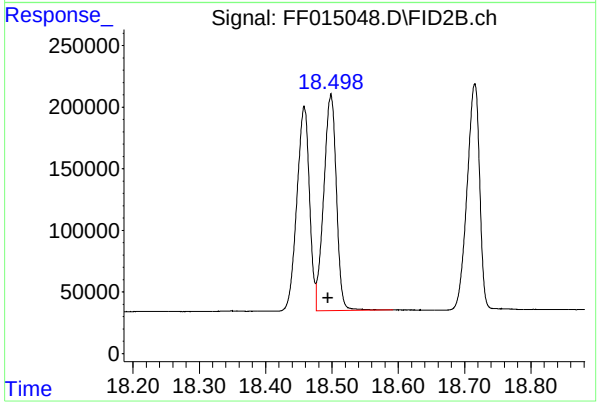

#18 Benzo[a]pyrene (C31.34)

R.T.: 17.089 min
Delta R.T.: 0.005 min
Response: 2178925
Conc: 18.70 ug/ml



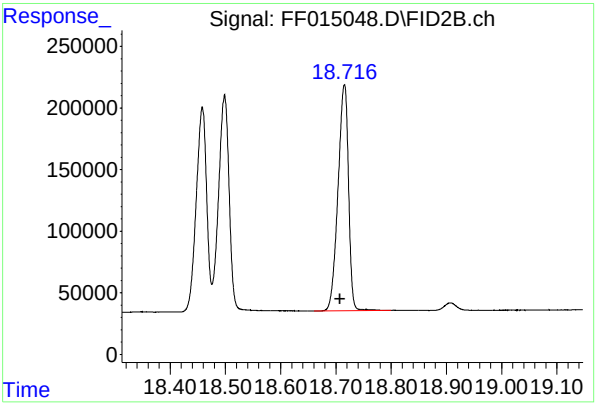

#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.458 min
Delta R.T.: 0.006 min
Response: 2181342
Conc: 18.40 ug/ml




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

R.T.: 18.498 min
Delta R.T.: 0.004 min
Response: 2329278
Conc: 18.22 ug/ml




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

R.T.: 18.715 min
Delta R.T.: 0.008 mi
Response: 2422583
Conc: 18.67 ug/m

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD ICV

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015048.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:55
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.608 | 4.550 | 4.667 | BB | 258575 | 2544338 | 97.32% | 5.155% |
| 2 | 6.272 | 6.209 | 6.352 | BB | 275773 | 2614528 | 100.00% | 5.298% |
| 3 | 7.365 | 7.322 | 7.444 | BB | 257550 | 2547059 | 97.42% | 5.161% |
| 4 | 7.990 | 7.929 | 8.054 | BB | 236476 | 2307596 | 88.26% | 4.676% |
| 5 | 8.664 | 8.629 | 8.737 | BB | 263369 | 2585134 | 98.88% | 5.238% |
| 6 | 8.863 | 8.794 | 8.929 | BV | 154270 | 1548832 | 59.24% | 3.138% |
| 7 | 8.963 | 8.929 | 9.029 | VB | 248366 | 2529120 | 96.73% | 5.124% |
| 8 | 9.751 | 9.687 | 9.812 | BB | 247596 | 2528998 | 96.73% | 5.124% |
| 9 | 11.156 | 11.060 | 11.194 | BV | 227736 | 2429410 | 92.92% | 4.922% |
| 10 | 11.231 | 11.194 | 11.285 | VV | 229138 | 2382894 | 91.14% | 4.828% |
| 11 | 11.924 | 11.850 | 11.967 | BB | 230385 | 2541843 | 97.22% | 5.150% |
| 12 | 12.975 | 12.937 | 13.029 | PB | 210905 | 2366132 | 90.50% | 4.794% |
| 13 | 13.274 | 13.214 | 13.307 | BV | 208374 | 2342086 | 89.58% | 4.745% |
| 14 | 15.151 | 15.082 | 15.172 | BV | 180316 | 2224057 | 85.07% | 4.506% |
| 15 | 15.194 | 15.172 | 15.267 | VB | 193738 | 2235234 | 85.49% | 4.529% |
| 16 | 16.709 | 16.642 | 16.724 | BV | 171969 | 2259609 | 86.43% | 4.578% |
| 17 | 16.741 | 16.724 | 16.785 | VB | 191629 | 2254846 | 86.24% | 4.569% |
| 18 | 17.089 | 17.019 | 17.155 | BB | 174820 | 2178925 | 83.34% | 4.415% |
| 19 | 18.458 | 18.410 | 18.476 | BV | 165865 | 2181342 | 83.43% | 4.420% |
| 20 | 18.498 | 18.476 | 18.592 | VB | 176177 | 2329278 | 89.09% | 4.720% |
| 21 | 18.715 | 18.660 | 18.800 | BBA | 183756 | 2422583 | 92.66% | 4.909% |
| | | | Sum of corrected areas: | | | 49353842 | | |

Aromatic EPH 111524.M Fri Nov 15 02:12:43 2024

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

# Inital Calibration Report for SequenceID : FG111424AL

**AreaCount**

| Parameter Range | FG014781.D | FG014782.D | FG014783.D | FG014784.D | FG014785.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 38805094.000 | 20087988.000 | 8323102.000 | 4325002.000 | 2172741.000 | |
| Aliphatic C12-C16 | 26315857.000 | 13655201.000 | 5635513.000 | 2924710.000 | 1455701.000 | |
| Aliphatic C16-C21 | 37884451.000 | 19728051.000 | 8108918.000 | 4211614.000 | 2081364.000 | |
| Aliphatic C21-C28 | 46060625.000 | 23943174.000 | 9959110.000 | 5094088.000 | 2618725.000 | |
| Aliphatic C28-C40 | 54036142.000 | 28551913.000 | 12655939.000 | 6548947.000 | 3558141.000 | |
| Aliphatic EPH | 203102169.000 | 105966327.000 | 44682582.000 | 23104361.000 | 11886672.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 138200.9466664 | 4.81 | | | | |
| Aliphatic C12-C16 | 140164.944 | 4.418 | | | | |
| Aliphatic C16-C21 | 134419.0419998 | 4.235 | | | | |
| Aliphatic C21-C28 | 123528.9515 | 5.041 | | | | |
| Aliphatic C28-C40 | 103690.6509996 | 10.929 | | | | |
| Aliphatic EPH | 123024.9758886 | 6.339 | | | | |

**Concentration**

| Parameter Range | FG014781.D | FG014782.D | FG014783.D | FG014784.D | FG014785.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aliphatic C12-C16 | 200.000 | 100.000 | 40.000 | 20.000 | 10.000 | |
| Aliphatic C16-C21 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aliphatic C21-C28 | 400.000 | 200.000 | 80.000 | 40.000 | 20.000 | |
| Aliphatic C28-C40 | 600.000 | 300.000 | 120.000 | 60.000 | 30.000 | |
| Aliphatic EPH | 1800.000 | 900.000 | 360.000 | 180.000 | 90.000 | |

**Response Factor**

| Parameter Range | FG014781.D | FG014782.D | FG014783.D | FG014784.D | FG014785.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 129350.313333 | 133919.920000 | 138718.366666 | 144166.733333 | 144849.400000 | |
| Aliphatic C12-C16 | 131579.285000 | 136552.010000 | 140887.825000 | 146235.500000 | 145570.100000 | |
| Aliphatic C16-C21 | 126281.503333 | 131520.340000 | 135148.633333 | 140387.133333 | 138757.600000 | |

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

# Inital Calibration Report for SequenceID : FG111424AL

| | | | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C21-C28 | 115151.562500 | 119715.870000 | 124488.875000 | 127352.200000 | 130936.250000 | |
| Aliphatic C28-C40 | 90060.236666 | 95173.043333 | 105466.158333 | 109149.116666 | 118604.700000 | |
| Aliphatic EPH | 112834.538333 | 117740.363333 | 124118.283333 | 128357.561111 | 132074.133333 | |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014781.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 14:16
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 14 16:27:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.956 | 13891170 | 96.698 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 193.40% |
| 12) S | 1-chlorooctadecane (S... | 13.393 | 10591812 | 97.306 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 194.61% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.325 | 12687441 | 96.445 ug/ml |
| 2) T | n-Decane (C10) | 4.576 | 12974818 | 96.476 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 6.280 | 13927909 | 96.697 ug/ml |
| 4) T | n-Dodecane (C12) | 6.746 | 13142835 | 96.593 ug/ml |
| 5) T | A~2-methylnaphthalene... | 7.379 | 13449166 | 96.781 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.578 | 13018939 | 96.611 ug/ml |
| 7) T | n-Hexadecane (C16) | 10.190 | 13296918 | 96.556 ug/ml |
| 8) T | n-Octadecane (C18) | 11.638 | 13210637 | 96.578 ug/ml |
| 10) T | n-Eicosane (C20) | 12.949 | 12487559 | 96.650 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.561 | 12186255 | 96.598 ug/ml |
| 13) T | n-Docosane (C22) | 14.149 | 12005437 | 96.599 ug/ml |
| 14) T | n-Tetracosane (C24) | 15.252 | 11741065 | 96.536 ug/ml |
| 15) T | n-Hexacosane (C26) | 16.275 | 11342932 | 96.126 ug/ml |
| 16) T | n-Octacosane (C28) | 17.226 | 10971191 | 95.092 ug/ml |
| 17) T | n-Tricontane (C30) | 18.114 | 10964719 | 92.375 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.945 | 10483317 | 90.519 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.729 | 9216474 | 91.454 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.469 | 8076907 | 92.711 ug/ml |
| 21) T | n-Octatriacontane (C38) | 21.218 | 7767545 | 93.348 ug/ml |
| 22) T | n-Tetracontane (C40) | 22.154 | 7527180 | 92.974 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

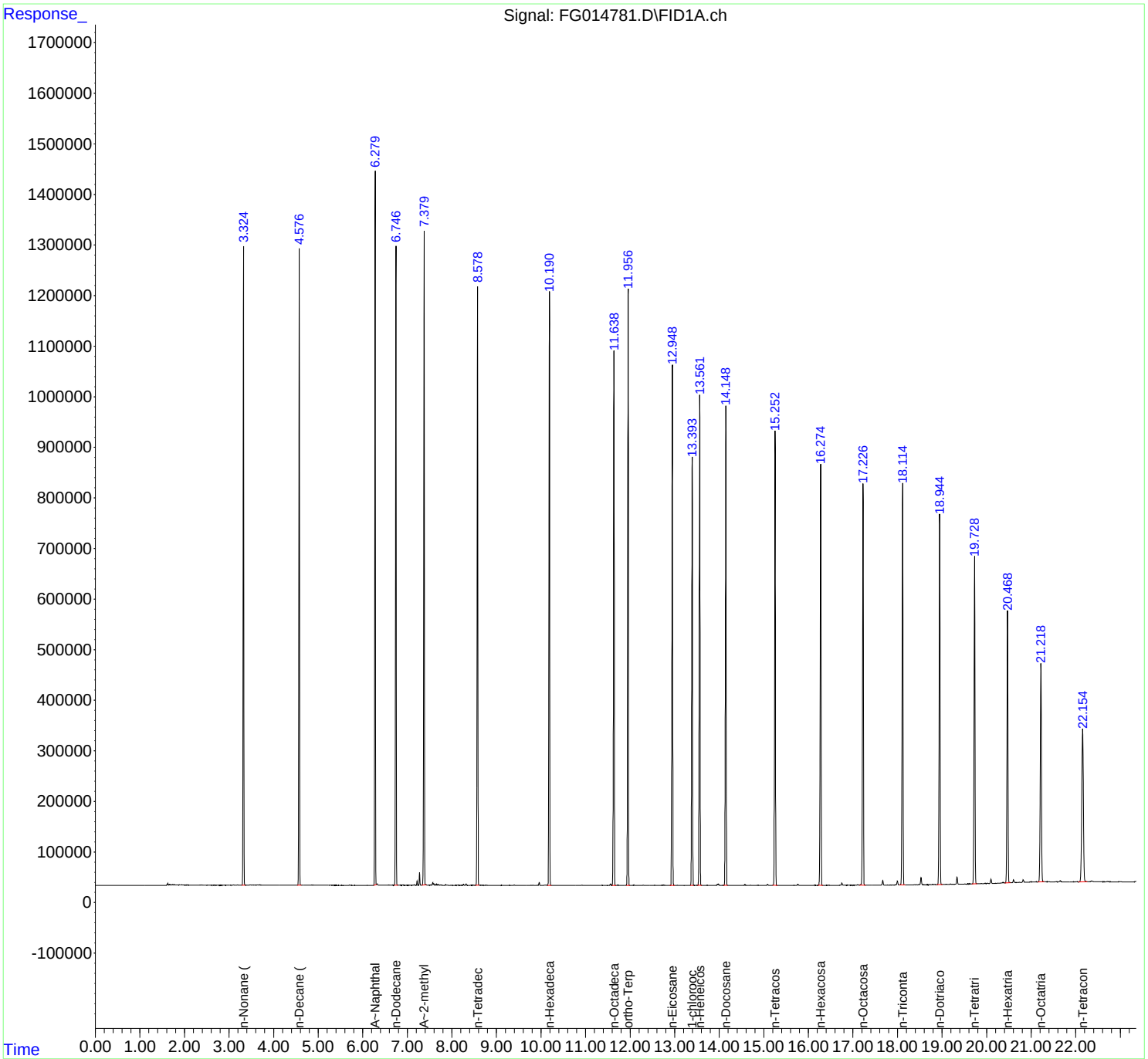
Quantitation Report (QT Reviewed)

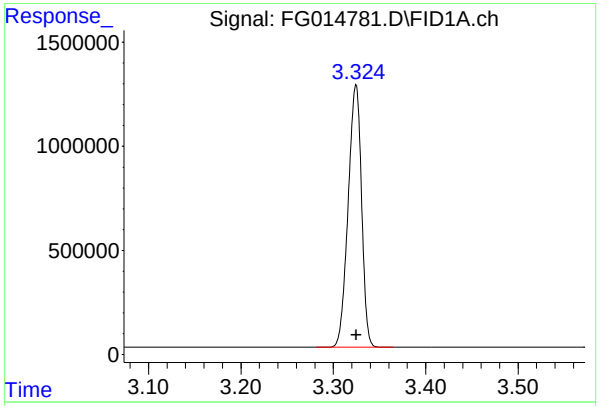
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014781.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 14:16
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 14 16:27:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

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

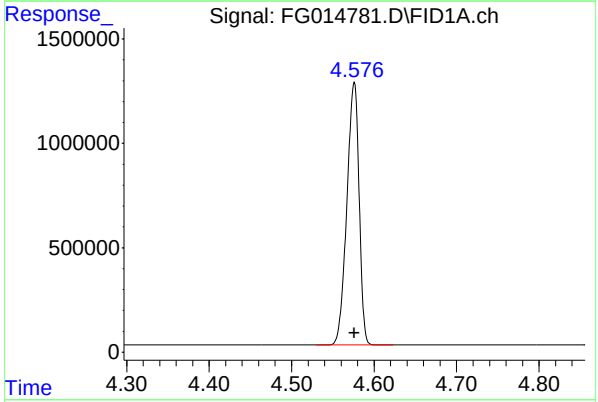





#1 n-Nonane (C9)

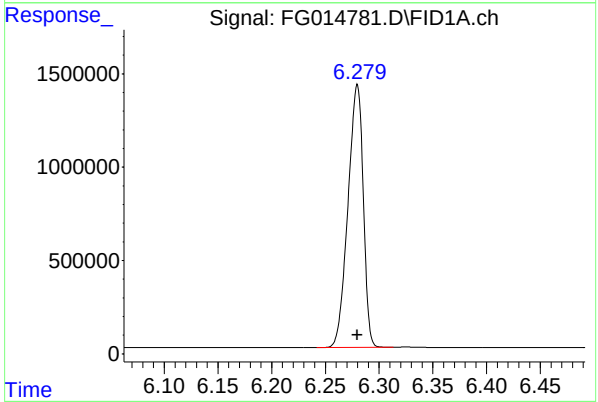
R.T.: 3.325 min
Delta R.T.: 0.000 min
Response: 12687441
Conc: 96.44 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1



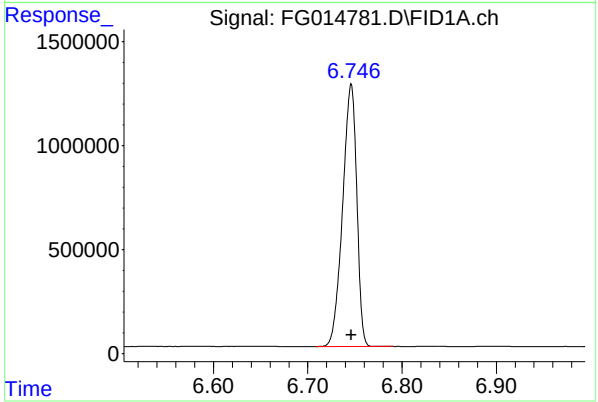

#2 n-Decane (C10)

R.T.: 4.576 min
Delta R.T.: 0.000 min
Response: 12974818
Conc: 96.48 ug/ml



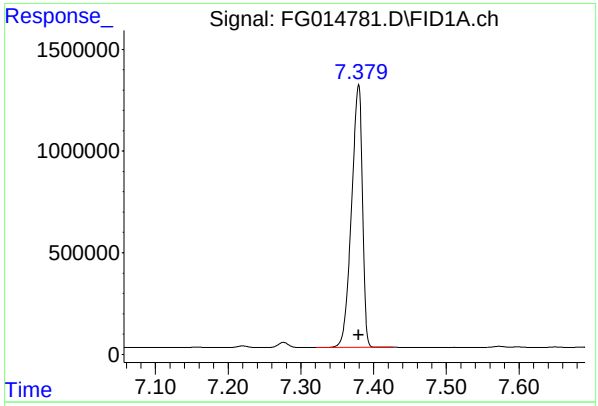

#3 A~Naphthalene (C11.7)

R.T.: 6.280 min
Delta R.T.: 0.000 min
Response: 13927909
Conc: 96.70 ug/ml




#4 n-Dodecane (C12)

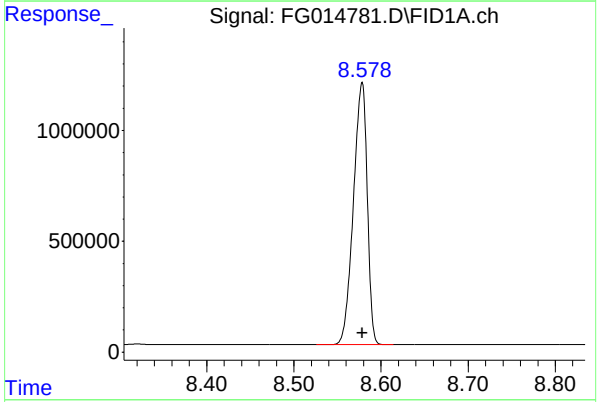
R.T.: 6.746 min
Delta R.T.: 0.000 min
Response: 13142835
Conc: 96.59 ug/ml




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

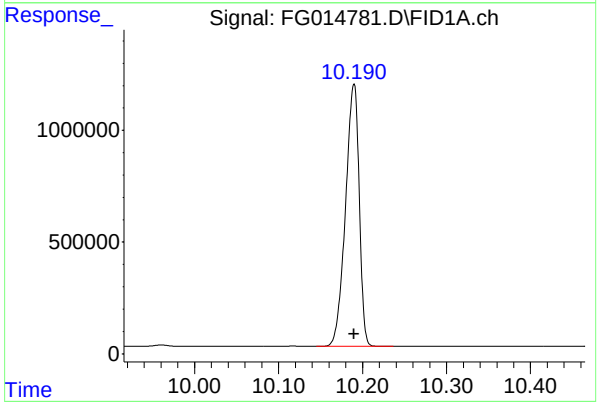
R.T.: 7.379 min
Delta R.T.: 0.000 min
Response: 13449166
Conc: 96.78 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1



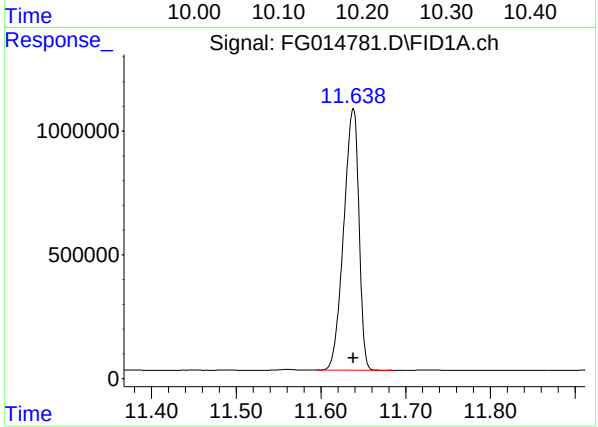

#6 n-Tetradecane (C14)

R.T.: 8.578 min
Delta R.T.: 0.000 min
Response: 13018939
Conc: 96.61 ug/ml



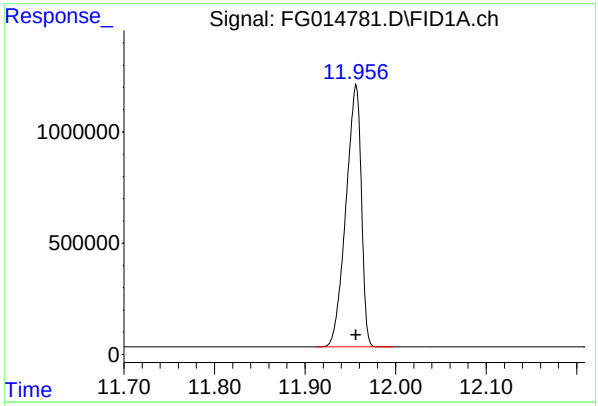

#7 n-Hexadecane (C16)

R.T.: 10.190 min
Delta R.T.: 0.000 min
Response: 13296918
Conc: 96.56 ug/ml




#8 n-Octadecane (C18)

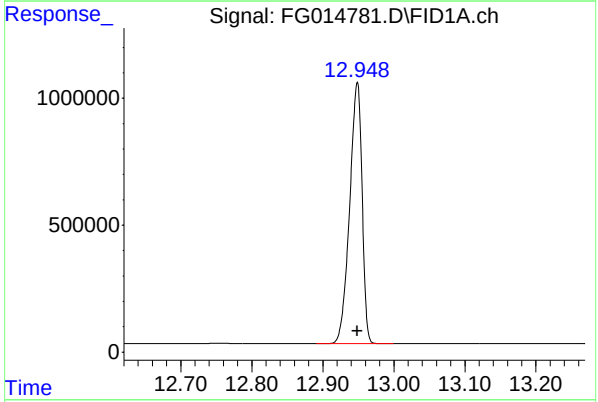
R.T.: 11.638 min
Delta R.T.: 0.000 min
Response: 13210637
Conc: 96.58 ug/ml




#9 ortho-Terphenyl (SURR)

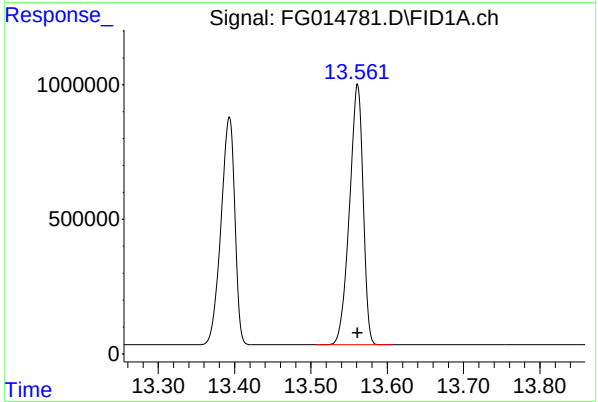
R.T.: 11.956 min
Delta R.T.: 0.000 min
Response: 13891170
Conc: 96.70 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1



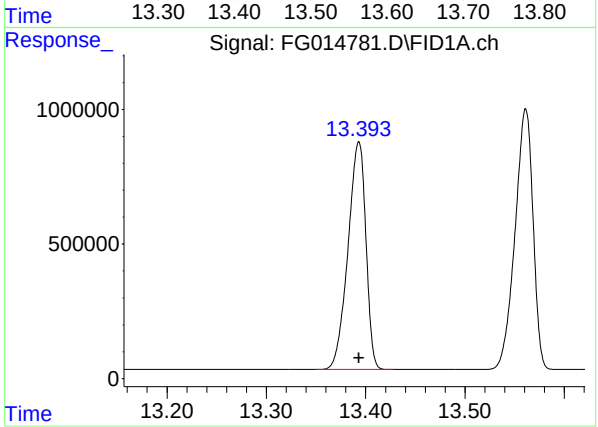

#10 n-Eicosane (C20)

R.T.: 12.949 min
Delta R.T.: 0.000 min
Response: 12487559
Conc: 96.65 ug/ml



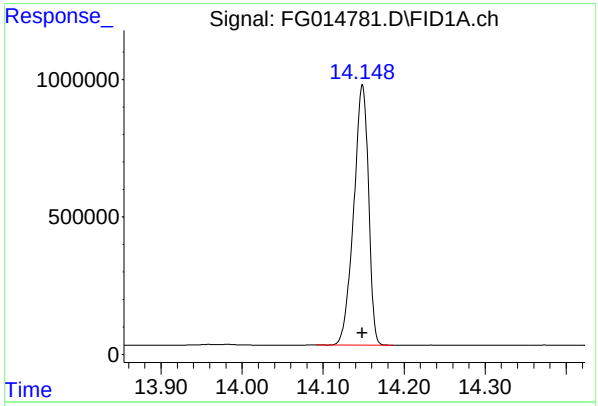

#11 n-Heneicosane (C21)

R.T.: 13.561 min
Delta R.T.: 0.000 min
Response: 12186255
Conc: 96.60 ug/ml




#12 1-chlorooctadecane (SURR)

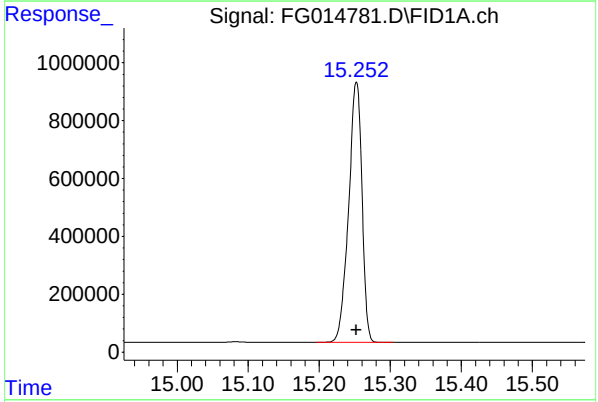
R.T.: 13.393 min
Delta R.T.: 0.000 min
Response: 10591812
Conc: 97.31 ug/ml




#13 n-Docosane (C22)

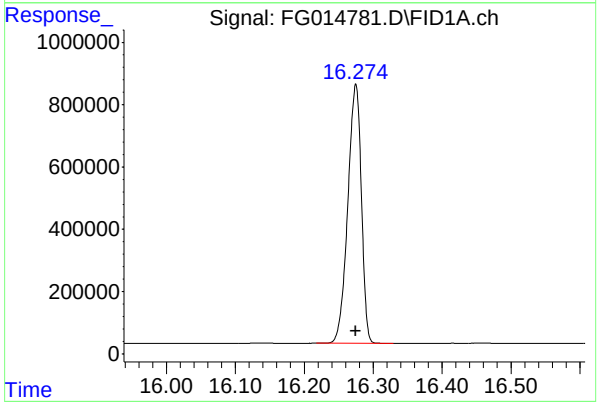
R.T.: 14.149 min
Delta R.T.: 0.000 min
Response: 12005437
Conc: 96.60 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1



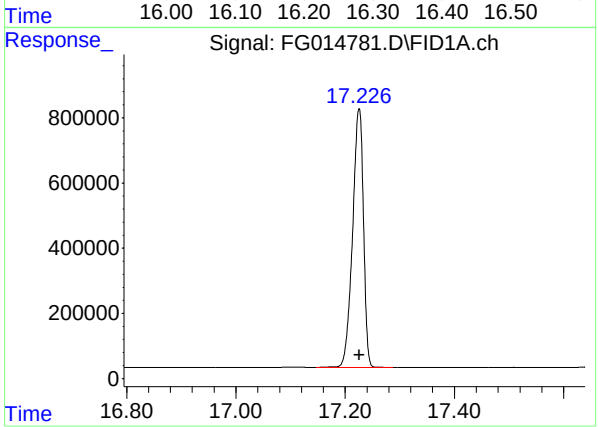

#14 n-Tetracosane (C24)

R.T.: 15.252 min
Delta R.T.: 0.000 min
Response: 11741065
Conc: 96.54 ug/ml



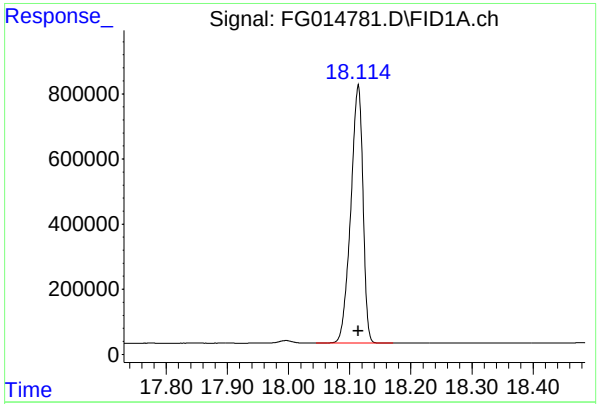

#15 n-Hexacosane (C26)

R.T.: 16.275 min
Delta R.T.: 0.000 min
Response: 11342932
Conc: 96.13 ug/ml




#16 n-Octacosane (C28)

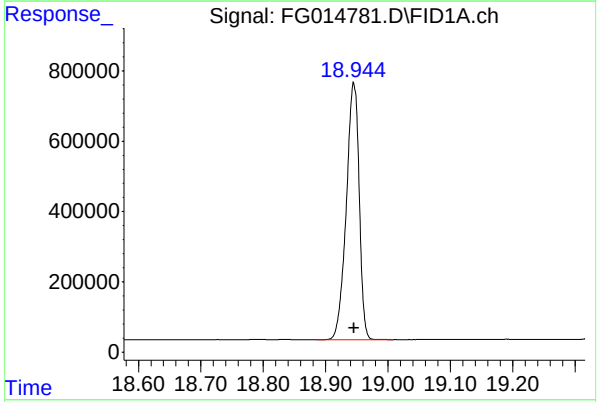
R.T.: 17.226 min
Delta R.T.: 0.000 min
Response: 10971191
Conc: 95.09 ug/ml




#17 n-Tricontane (C30)

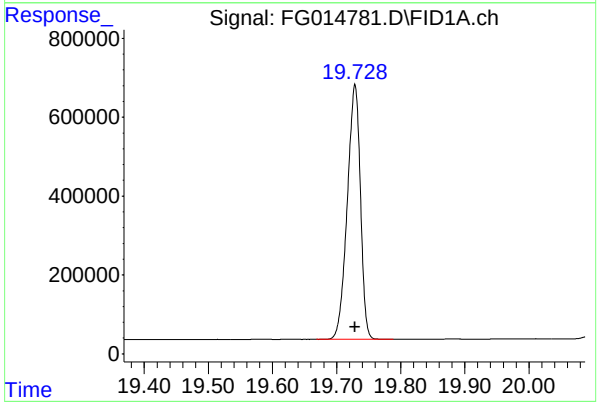
R.T.: 18.114 min
Delta R.T.: 0.000 min
Response: 10964719
Conc: 92.38 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1



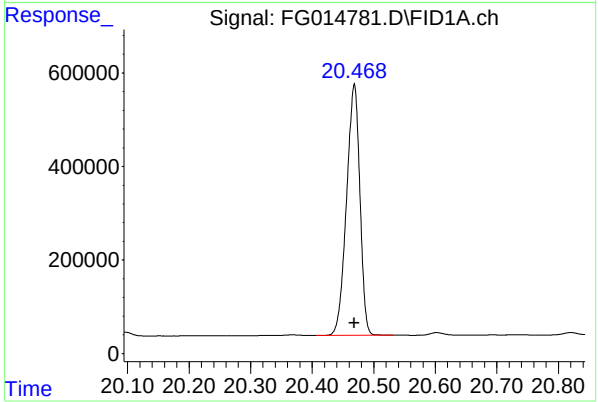

#18 n-Dotriacontane (C32)

R.T.: 18.945 min
Delta R.T.: 0.000 min
Response: 10483317
Conc: 90.52 ug/ml



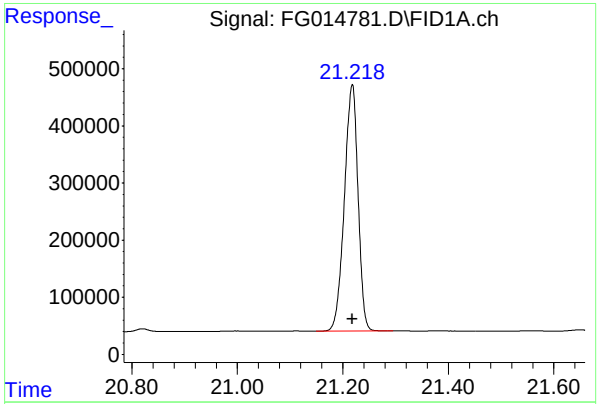

#19 n-Tetratriacontane (C34)

R.T.: 19.729 min
Delta R.T.: 0.000 min
Response: 9216474
Conc: 91.45 ug/ml




#20 n-Hexatriacontane (C36)

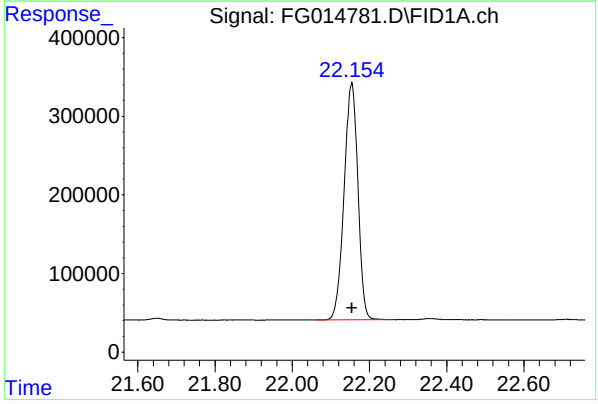
R.T.: 20.469 min
Delta R.T.: 0.000 min
Response: 8076907
Conc: 92.71 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 21.218 min
Delta R.T.: 0.000 min
Response: 7767545
Conc: 93.35 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
100 PPM ALIPHATIC HC STD1




#22 n-Tetracontane (C40)

R.T.: 22.154 min
Delta R.T.: 0.000 min
Response: 7527180
Conc: 92.97 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014781.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 14:16
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.325 | 3.282 | 3.365 | BB | 1261500 | 12687441 | 91.09% | 4.976% |
| 2 | 4.576 | 4.530 | 4.623 | BB | 1256738 | 12974818 | 93.16% | 5.089% |
| 3 | 6.280 | 6.242 | 6.313 | BV | 1409981 | 13927909 | 100.00% | 5.463% |
| 4 | 6.746 | 6.709 | 6.791 | BB | 1262266 | 13142835 | 94.36% | 5.155% |
| 5 | 7.379 | 7.321 | 7.427 | BB | 1290960 | 13449166 | 96.56% | 5.275% |
| 6 | 8.578 | 8.526 | 8.614 | BB | 1183015 | 13018939 | 93.47% | 5.106% |
| 7 | 10.190 | 10.145 | 10.237 | BB | 1173787 | 13296918 | 95.47% | 5.215% |
| 8 | 11.638 | 11.594 | 11.685 | BB | 1057663 | 13210637 | 94.85% | 5.181% |
| 9 | 11.956 | 11.913 | 11.998 | BB | 1178949 | 13891170 | 99.74% | 5.448% |
| 10 | 12.949 | 12.891 | 12.999 | BB | 1028918 | 12487559 | 89.66% | 4.898% |
| 11 | 13.393 | 13.350 | 13.428 | BB | 847148 | 10591812 | 76.05% | 4.154% |
| 12 | 13.561 | 13.507 | 13.608 | BB | 969740 | 12186255 | 87.50% | 4.780% |
| 13 | 14.149 | 14.092 | 14.187 | BB | 947911 | 12005437 | 86.20% | 4.709% |
| 14 | 15.252 | 15.196 | 15.304 | BB | 899451 | 11741065 | 84.30% | 4.605% |
| 15 | 16.275 | 16.218 | 16.329 | BB | 832466 | 11342932 | 81.44% | 4.449% |
| 16 | 17.226 | 17.147 | 17.288 | BB | 794239 | 10971191 | 78.77% | 4.303% |
| 17 | 18.114 | 18.045 | 18.171 | BB | 793438 | 10964719 | 78.72% | 4.301% |
| 18 | 18.945 | 18.885 | 19.008 | BB | 730495 | 10483317 | 75.27% | 4.112% |
| 19 | 19.729 | 19.668 | 19.788 | BB | 647123 | 9216474 | 66.17% | 3.615% |
| 20 | 20.469 | 20.407 | 20.532 | BB | 537451 | 8076907 | 57.99% | 3.168% |
| 21 | 21.218 | 21.149 | 21.295 | BB | 431862 | 7767545 | 55.77% | 3.047% |
| 22 | 22.154 | 22.062 | 22.261 | BB | 301999 | 7527180 | 54.04% | 2.952% |
| | | | Sum of corrected areas: | | | 254962224 | | |

Aliphatic EPH 111424.M Fri Nov 15 02:20:49 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014782.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 14:44
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 14 16:29:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) | S ortho-Terphenyl (SURR) | 11.950 | 7214550 | 50.147 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 100.29% |
| 12) | S 1-chlorooctadecane (S... | 13.389 | 5489508 | 50.287 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 100.57% |
| | Target Compounds | | | |
| 1) | T n-Nonane (C9) | 3.322 | 6570826 | 49.966 ug/ml |
| 2) | T n-Decane (C10) | 4.573 | 6717685 | 49.967 ug/ml |
| 3) | T A~Naphthalene (C11.7) | 6.276 | 7212186 | 50.048 ug/ml |
| 4) | T n-Dodecane (C12) | 6.742 | 6799477 | 49.982 ug/ml |
| 5) | T A~2-methylnaphthalene... | 7.374 | 6961926 | 50.066 ug/ml |
| 6) | T n-Tetradecane (C14) | 8.574 | 6747097 | 50.046 ug/ml |
| 7) | T n-Hexadecane (C16) | 10.185 | 6908104 | 50.109 ug/ml |
| 8) | T n-Octadecane (C18) | 11.633 | 6878882 | 50.192 ug/ml |
| 10) | T n-Eicosane (C20) | 12.944 | 6500189 | 50.206 ug/ml |
| 11) | T n-Heneicosane (C21) | 13.557 | 6348980 | 50.217 ug/ml |
| 13) | T n-Docosane (C22) | 14.144 | 6248068 | 50.182 ug/ml |
| 14) | T n-Tetracosane (C24) | 15.248 | 6099239 | 50.099 ug/ml |
| 15) | T n-Hexacosane (C26) | 16.270 | 5886485 | 49.923 ug/ml |
| 16) | T n-Octacosane (C28) | 17.221 | 5709382 | 49.656 ug/ml |
| 17) | T n-Tricontane (C30) | 18.108 | 5747616 | 48.937 ug/ml |
| 18) | T n-Dotriacontane (C32) | 18.941 | 5537417 | 48.520 ug/ml |
| 19) | T n-Tetratriacontane (C34) | 19.725 | 4863654 | 48.827 ug/ml |
| 20) | T n-Hexatriacontane (C36) | 20.466 | 4255608 | 49.226 ug/ml |
| 21) | T n-Octatriacontane (C38) | 21.214 | 4116484 | 49.646 ug/ml |
| 22) | T n-Tetracontane (C40) | 22.149 | 4031134 | 49.861 ug/ml |

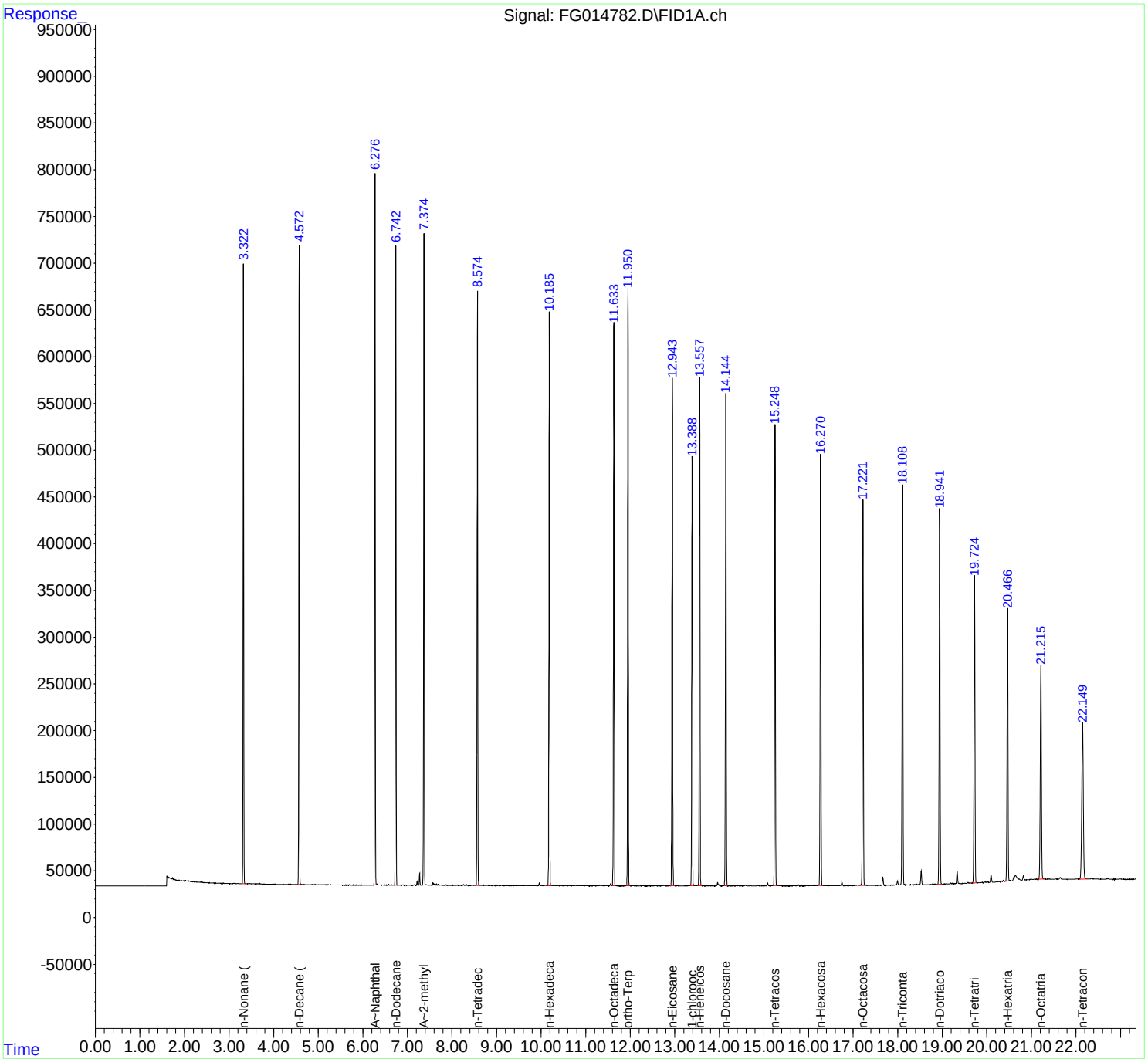
(f)=RT Delta > 1/2 Window (m)=manual int.

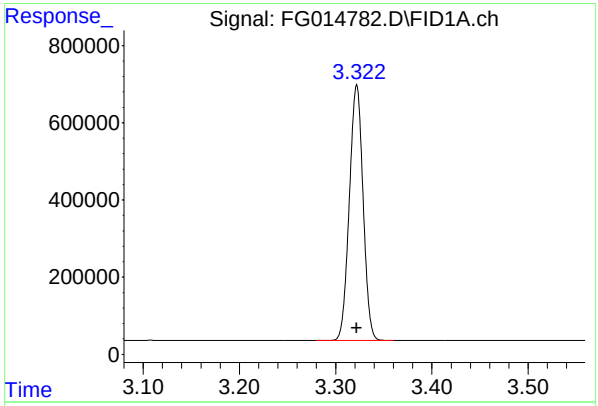
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014782.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 14:44
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 14 16:29:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

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

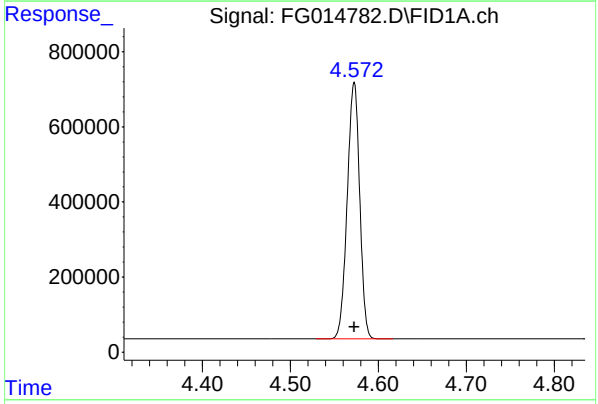





#1 n-Nonane (C9)

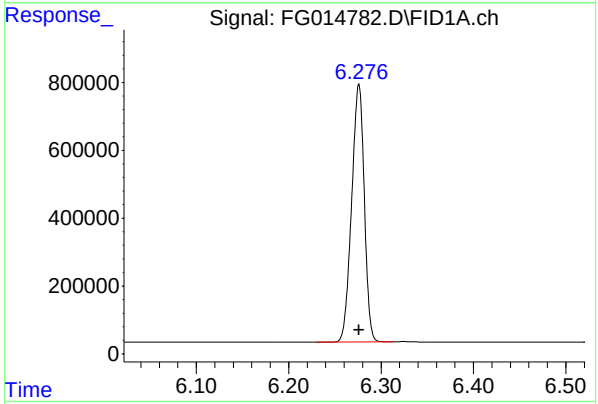
R.T.: 3.322 min
Delta R.T.: 0.000 min
Response: 6570826
Conc: 49.97 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2



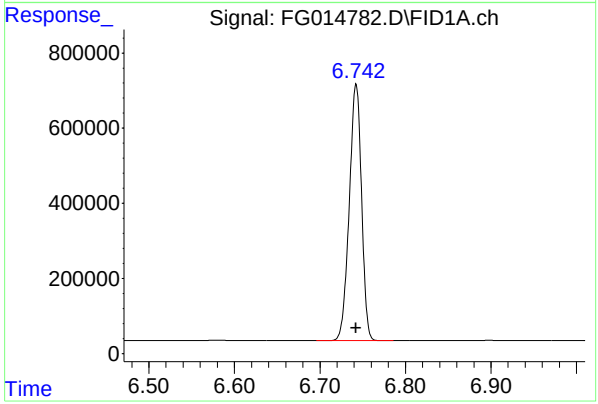

#2 n-Decane (C10)

R.T.: 4.573 min
Delta R.T.: 0.000 min
Response: 6717685
Conc: 49.97 ug/ml



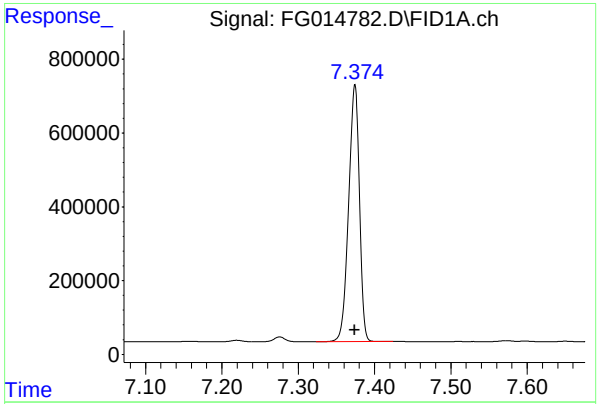

#3 A~Naphthalene (C11.7)

R.T.: 6.276 min
Delta R.T.: 0.000 min
Response: 7212186
Conc: 50.05 ug/ml




#4 n-Dodecane (C12)

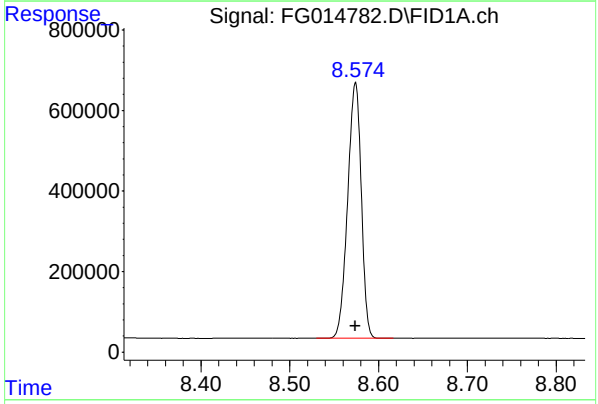
R.T.: 6.742 min
Delta R.T.: 0.000 min
Response: 6799477
Conc: 49.98 ug/ml




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

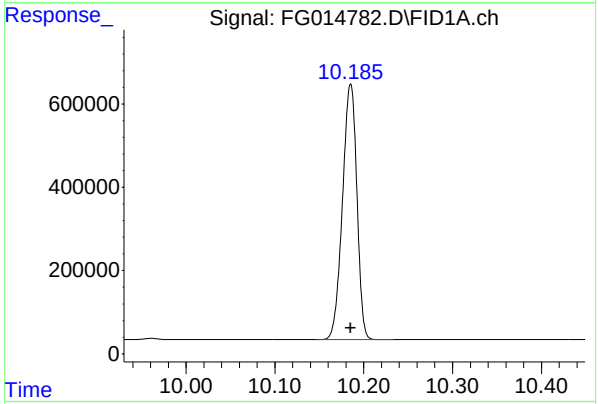
R.T.: 7.374 min
Delta R.T.: 0.000 min
Response: 6961926
Conc: 50.07 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2



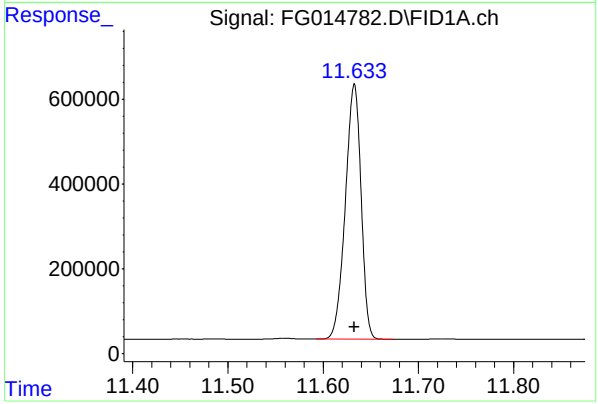

#6 n-Tetradecane (C14)

R.T.: 8.574 min
Delta R.T.: 0.000 min
Response: 6747097
Conc: 50.05 ug/ml



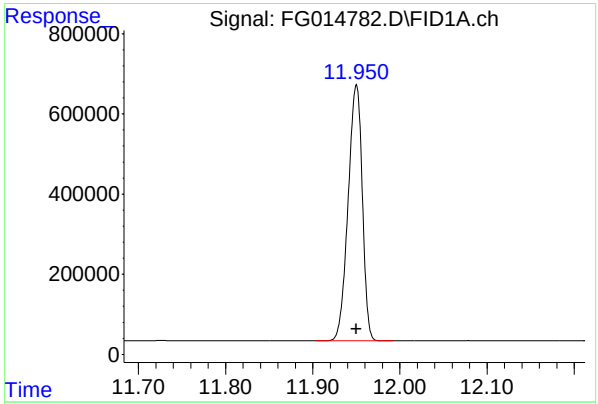

#7 n-Hexadecane (C16)

R.T.: 10.185 min
Delta R.T.: 0.000 min
Response: 6908104
Conc: 50.11 ug/ml




#8 n-Octadecane (C18)

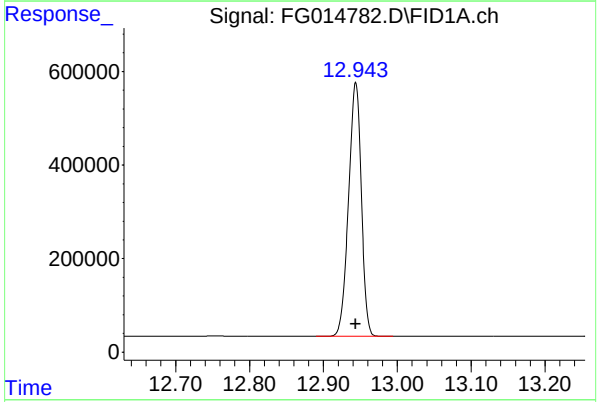
R.T.: 11.633 min
Delta R.T.: 0.000 min
Response: 6878882
Conc: 50.19 ug/ml




#9 ortho-Terphenyl (SURR)

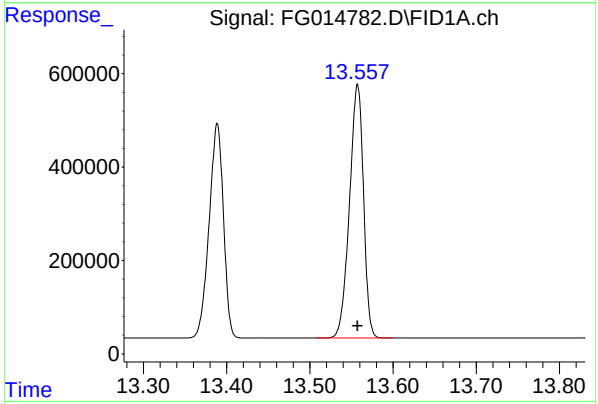
R.T.: 11.950 min
Delta R.T.: 0.000 min
Response: 7214550
Conc: 50.15 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2



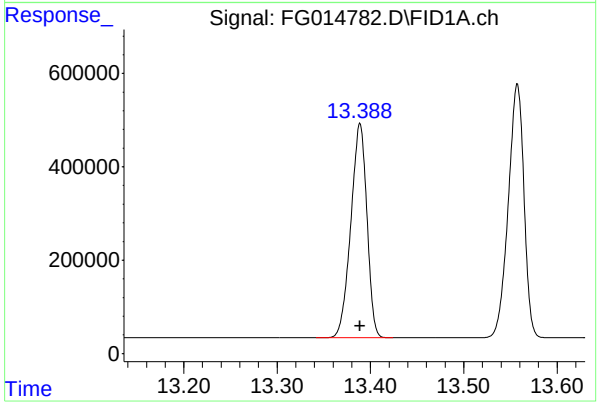

#10 n-Eicosane (C20)

R.T.: 12.944 min
Delta R.T.: 0.000 min
Response: 6500189
Conc: 50.21 ug/ml



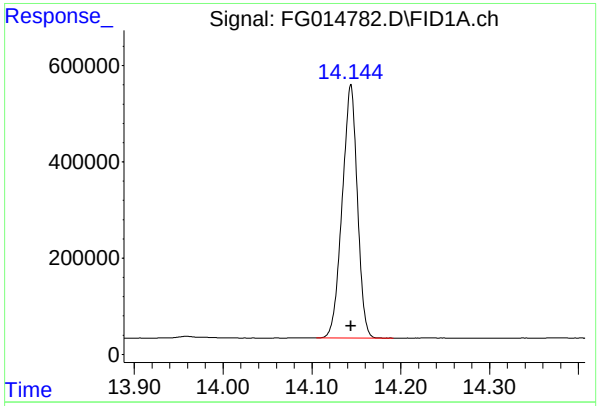

#11 n-Heneicosane (C21)

R.T.: 13.557 min
Delta R.T.: 0.000 min
Response: 6348980
Conc: 50.22 ug/ml




#12 1-chlorooctadecane (SURR)

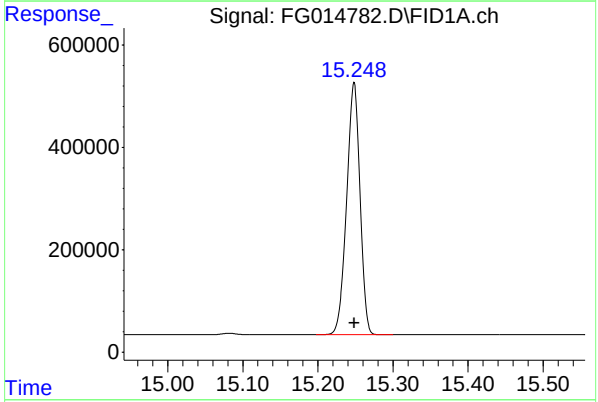
R.T.: 13.389 min
Delta R.T.: 0.000 min
Response: 5489508
Conc: 50.29 ug/ml




#13 n-Docosane (C22)

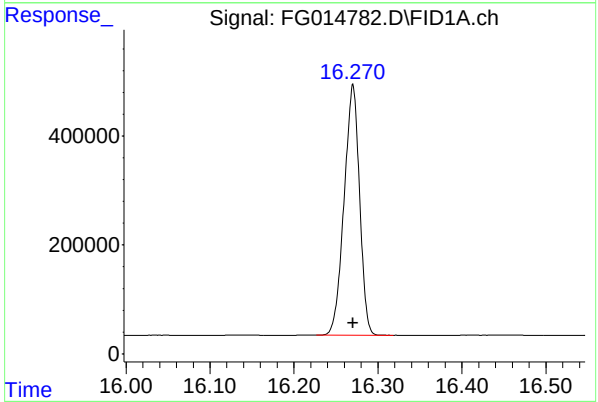
R.T.: 14.144 min
Delta R.T.: 0.000 min
Response: 6248068
Conc: 50.18 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2



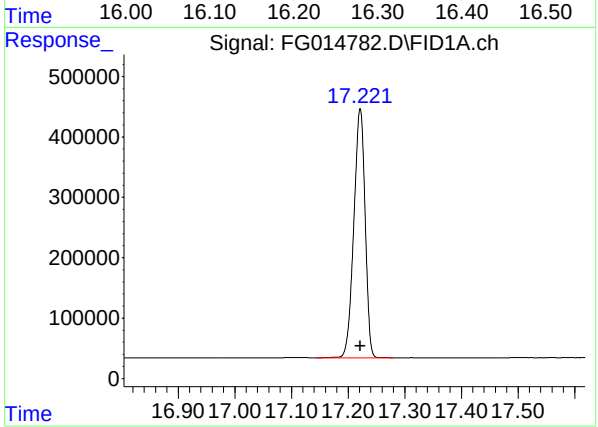

#14 n-Tetracosane (C24)

R.T.: 15.248 min
Delta R.T.: 0.000 min
Response: 6099239
Conc: 50.10 ug/ml



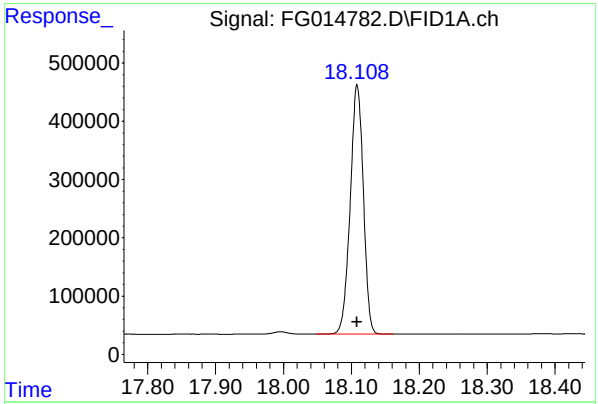

#15 n-Hexacosane (C26)

R.T.: 16.270 min
Delta R.T.: 0.000 min
Response: 5886485
Conc: 49.92 ug/ml




#16 n-Octacosane (C28)

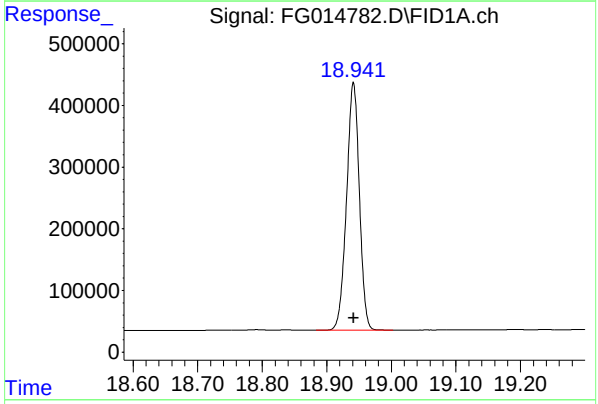
R.T.: 17.221 min
Delta R.T.: 0.000 min
Response: 5709382
Conc: 49.66 ug/ml




#17 n-Tricontane (C30)

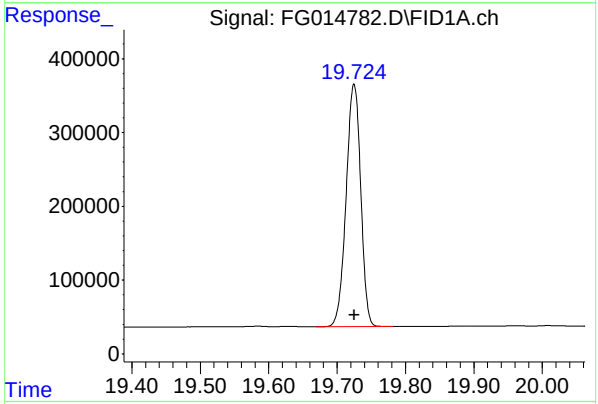
R.T.: 18.108 min
Delta R.T.: 0.000 min
Response: 5747616
Conc: 48.94 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2



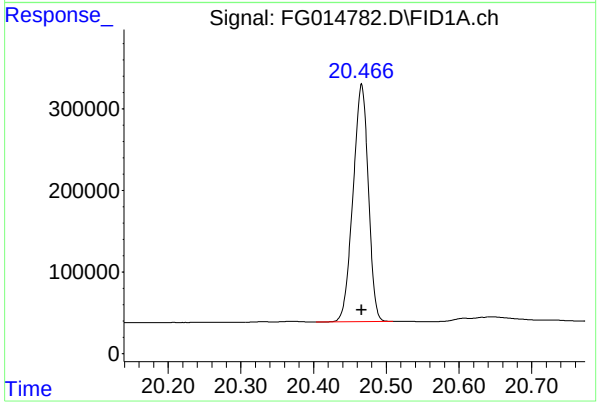

#18 n-Dotriacontane (C32)

R.T.: 18.941 min
Delta R.T.: 0.000 min
Response: 5537417
Conc: 48.52 ug/ml



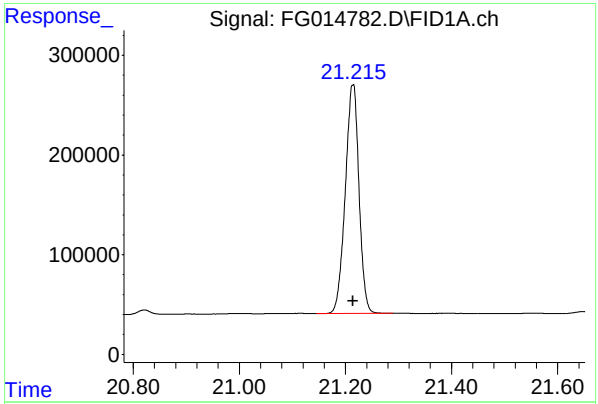

#19 n-Tetratriacontane (C34)

R.T.: 19.725 min
Delta R.T.: 0.000 min
Response: 4863654
Conc: 48.83 ug/ml




#20 n-Hexatriacontane (C36)

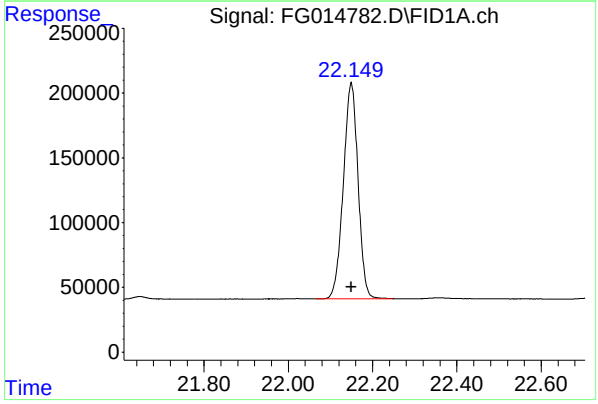
R.T.: 20.466 min
Delta R.T.: 0.000 min
Response: 4255608
Conc: 49.23 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 21.214 min
Delta R.T.: 0.000 min
Response: 4116484
Conc: 49.65 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
50 PPM ALIPHATIC HC STD2




#22 n-Tetracontane (C40)

R.T.: 22.149 min
Delta R.T.: 0.000 min
Response: 4031134
Conc: 49.86 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014782.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 14:44
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.322 | 3.280 | 3.360 | BB | 662240 | 6570826 | 91.08% | 4.946% |
| 2 | 4.573 | 4.529 | 4.617 | BB | 682974 | 6717685 | 93.11% | 5.057% |
| 3 | 6.276 | 6.230 | 6.313 | BV | 759835 | 7212186 | 99.97% | 5.429% |
| 4 | 6.742 | 6.696 | 6.786 | BB | 683297 | 6799477 | 94.25% | 5.118% |
| 5 | 7.374 | 7.323 | 7.424 | BB | 696792 | 6961926 | 96.50% | 5.241% |
| 6 | 8.574 | 8.530 | 8.617 | BB | 635912 | 6747097 | 93.52% | 5.079% |
| 7 | 10.185 | 10.147 | 10.233 | BB | 613790 | 6908104 | 95.75% | 5.200% |
| 8 | 11.633 | 11.593 | 11.673 | BB | 601646 | 6878882 | 95.35% | 5.178% |
| 9 | 11.950 | 11.904 | 11.993 | BB | 639312 | 7214550 | 100.00% | 5.431% |
| 10 | 12.944 | 12.890 | 12.994 | BB | 542933 | 6500189 | 90.10% | 4.893% |
| 11 | 13.389 | 13.342 | 13.424 | BB | 459122 | 5489508 | 76.09% | 4.132% |
| 12 | 13.558 | 13.508 | 13.600 | BB | 544034 | 6348980 | 88.00% | 4.779% |
| 13 | 14.144 | 14.105 | 14.192 | BB | 527890 | 6248068 | 86.60% | 4.703% |
| 14 | 15.248 | 15.198 | 15.300 | BB | 493693 | 6099239 | 84.54% | 4.591% |
| 15 | 16.270 | 16.227 | 16.318 | BB | 461317 | 5886485 | 81.59% | 4.431% |
| 16 | 17.221 | 17.143 | 17.279 | BB | 412480 | 5709382 | 79.14% | 4.298% |
| 17 | 18.108 | 18.048 | 18.162 | BB | 428140 | 5747616 | 79.67% | 4.327% |
| 18 | 18.941 | 18.883 | 19.003 | BB | 401769 | 5537417 | 76.75% | 4.168% |
| 19 | 19.725 | 19.669 | 19.782 | BB | 328734 | 4863654 | 67.41% | 3.661% |
| 20 | 20.466 | 20.403 | 20.509 | BB | 291660 | 4255608 | 58.99% | 3.203% |
| 21 | 21.214 | 21.145 | 21.290 | BB | 229196 | 4116484 | 57.06% | 3.099% |
| 22 | 22.149 | 22.066 | 22.248 | BB | 167193 | 4031134 | 55.88% | 3.034% |

Sum of corrected areas: 132844496

Aliphatic EPH 111424.M Fri Nov 15 02:21:33 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014783.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 15:12
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 14 16:25:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) | S ortho-Terphenyl (SURR) | 11.946 | 2967987 | 20.000 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.00% |
| 12) | S 1-chlorooctadecane (S... | 13.385 | 2235676 | 20.000 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.00% |
| | Target Compounds | | | |
| 1) | T n-Nonane (C9) | 3.321 | 2724556 | 20.000 ug/ml |
| 2) | T n-Decane (C10) | 4.571 | 2784544 | 20.000 ug/ml |
| 3) | T A~Naphthalene (C11.7) | 6.274 | 2975901 | 20.000 ug/ml |
| 4) | T n-Dodecane (C12) | 6.740 | 2814002 | 20.000 ug/ml |
| 5) | T A~2-methylnaphthalene... | 7.372 | 2868763 | 20.000 ug/ml |
| 6) | T n-Tetradecane (C14) | 8.571 | 2786444 | 20.000 ug/ml |
| 7) | T n-Hexadecane (C16) | 10.183 | 2849069 | 20.000 ug/ml |
| 8) | T n-Octadecane (C18) | 11.629 | 2829344 | 20.000 ug/ml |
| 10) | T n-Eicosane (C20) | 12.940 | 2670632 | 20.000 ug/ml |
| 11) | T n-Heneicosane (C21) | 13.554 | 2608942 | 20.000 ug/ml |
| 13) | T n-Docosane (C22) | 14.141 | 2570175 | 20.000 ug/ml |
| 14) | T n-Tetracosane (C24) | 15.245 | 2516756 | 20.000 ug/ml |
| 15) | T n-Hexacosane (C26) | 16.267 | 2451433 | 20.000 ug/ml |
| 16) | T n-Octacosane (C28) | 17.219 | 2420746 | 20.000 ug/ml |
| 17) | T n-Tricontane (C30) | 18.106 | 2554968 | 20.000 ug/ml |
| 18) | T n-Dotriacontane (C32) | 18.940 | 2535899 | 20.000 ug/ml |
| 19) | T n-Tetratriacontane (C34) | 19.724 | 2187786 | 20.000 ug/ml |
| 20) | T n-Hexatriacontane (C36) | 20.463 | 1869394 | 20.000 ug/ml |
| 21) | T n-Octatriacontane (C38) | 21.212 | 1774909 | 20.000 ug/ml |
| 22) | T n-Tetracontane (C40) | 22.148 | 1732983 | 20.000 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

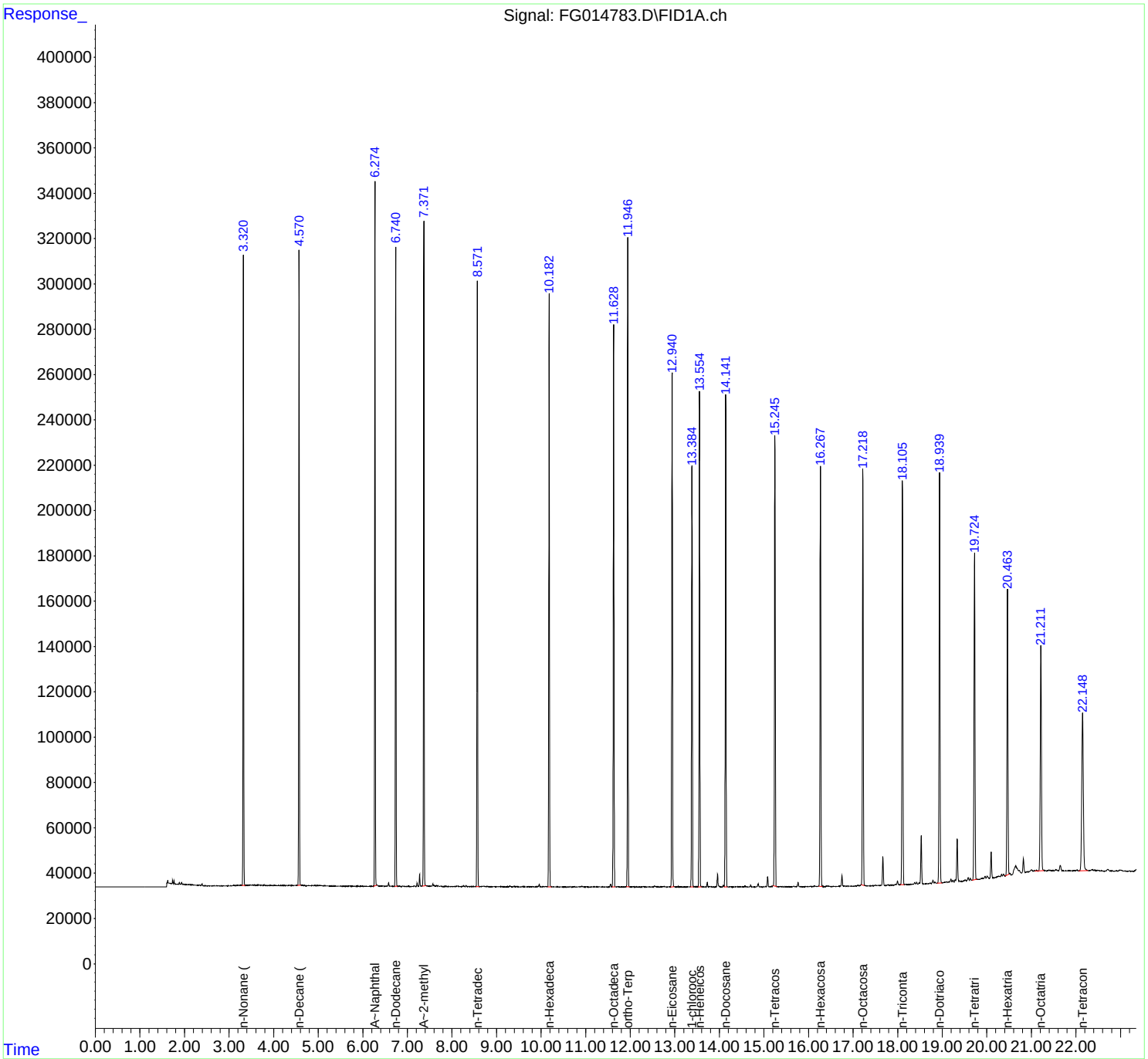
Quantitation Report (QT Reviewed)

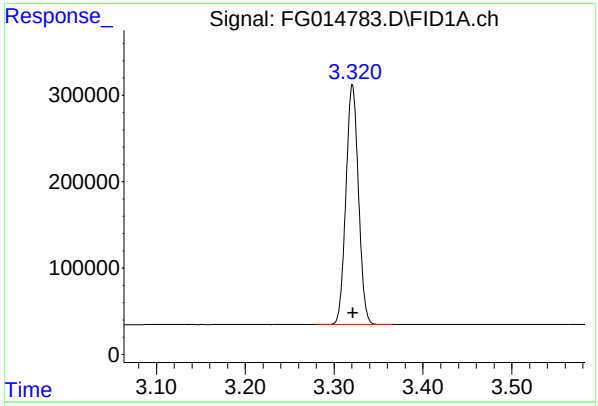
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014783.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 15:12
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 14 16:25:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

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

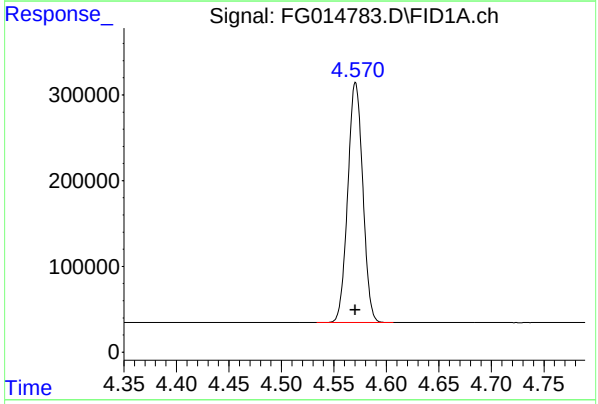





#1 n-Nonane (C9)

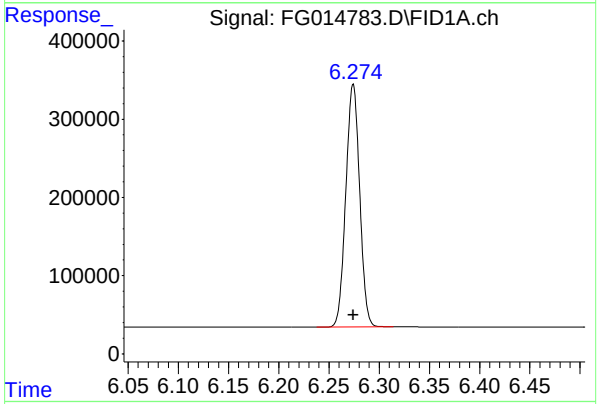
R.T.: 3.321 min
Delta R.T.: 0.000 min
Response: 2724556
Conc: 20.00 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3



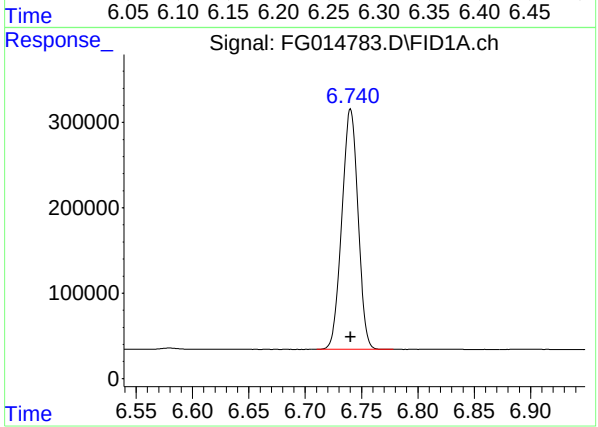

#2 n-Decane (C10)

R.T.: 4.571 min
Delta R.T.: 0.000 min
Response: 2784544
Conc: 20.00 ug/ml



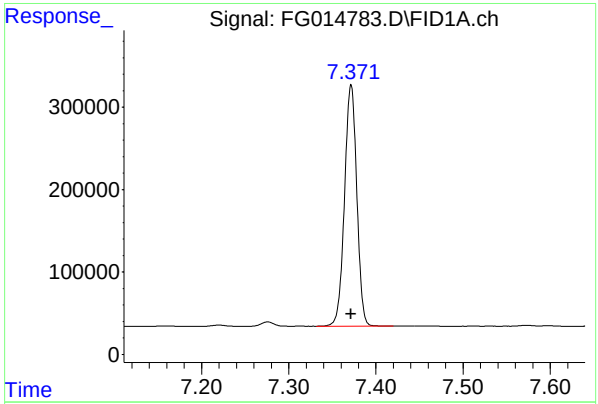

#3 A~Naphthalene (C11.7)

R.T.: 6.274 min
Delta R.T.: 0.000 min
Response: 2975901
Conc: 20.00 ug/ml




#4 n-Dodecane (C12)

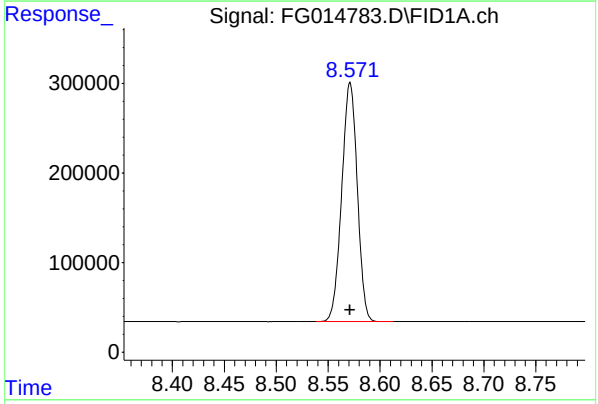
R.T.: 6.740 min
Delta R.T.: 0.000 min
Response: 2814002
Conc: 20.00 ug/ml




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

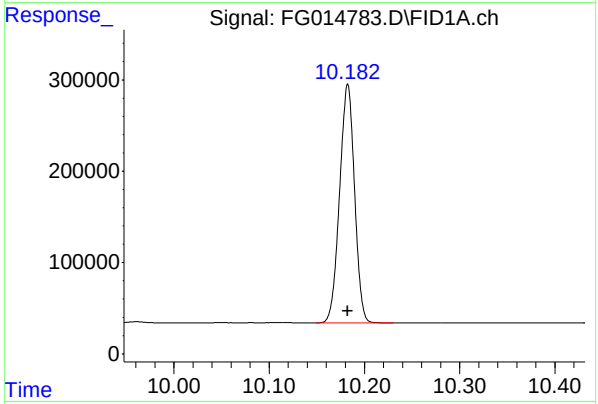
R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 2868763
Conc: 20.00 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3



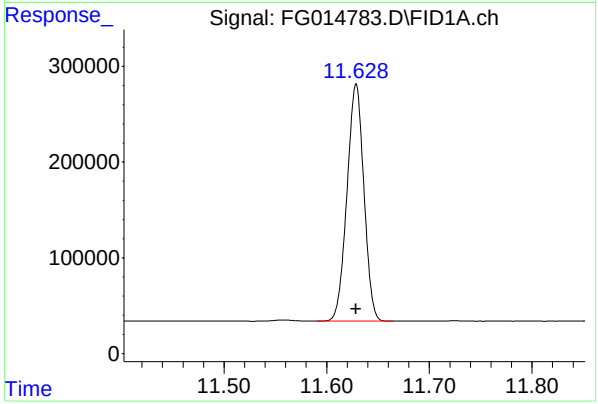

#6 n-Tetradecane (C14)

R.T.: 8.571 min
Delta R.T.: 0.000 min
Response: 2786444
Conc: 20.00 ug/ml



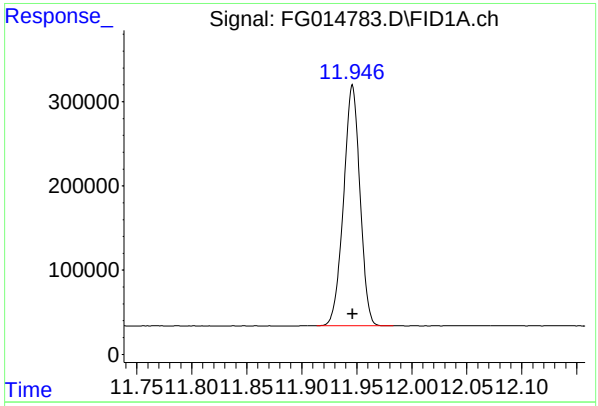

#7 n-Hexadecane (C16)

R.T.: 10.183 min
Delta R.T.: 0.000 min
Response: 2849069
Conc: 20.00 ug/ml




#8 n-Octadecane (C18)

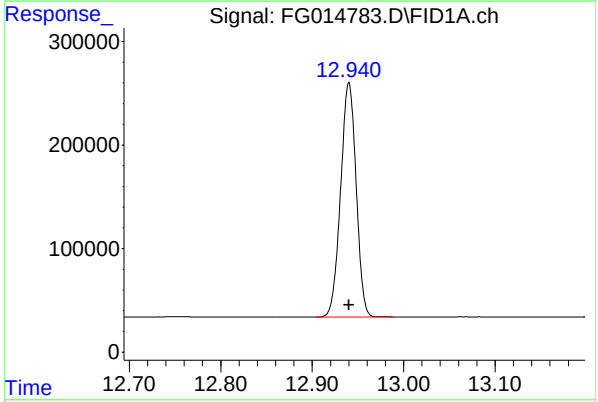
R.T.: 11.629 min
Delta R.T.: 0.000 min
Response: 2829344
Conc: 20.00 ug/ml




#9 ortho-Terphenyl (SURR)

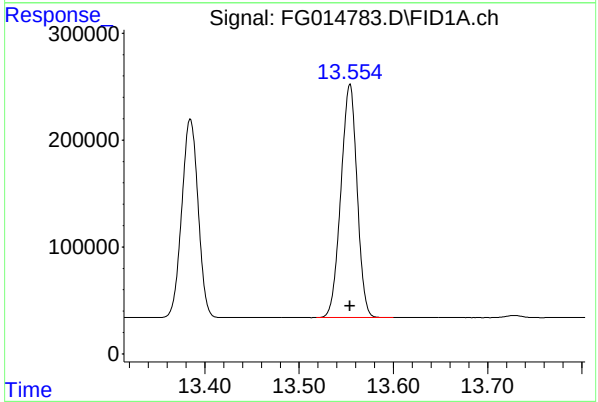
R.T.: 11.946 min
Delta R.T.: 0.000 min
Response: 2967987
Conc: 20.00 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3



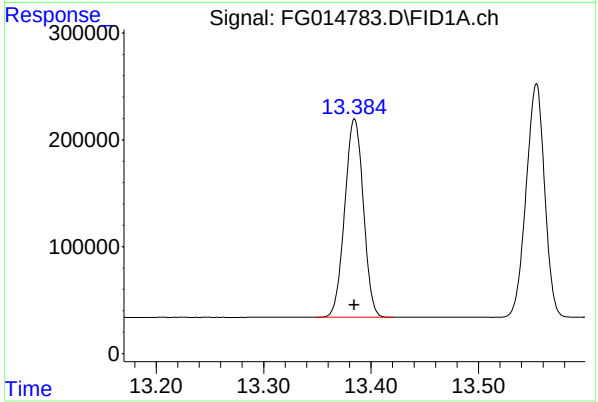

#10 n-Eicosane (C20)

R.T.: 12.940 min
Delta R.T.: 0.000 min
Response: 2670632
Conc: 20.00 ug/ml



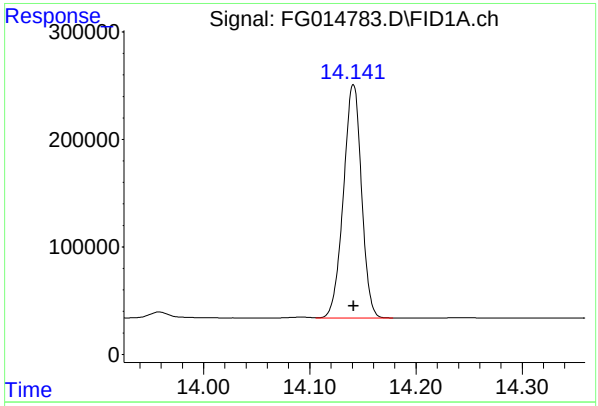

#11 n-Heneicosane (C21)

R.T.: 13.554 min
Delta R.T.: 0.000 min
Response: 2608942
Conc: 20.00 ug/ml




#12 1-chlorooctadecane (SURR)

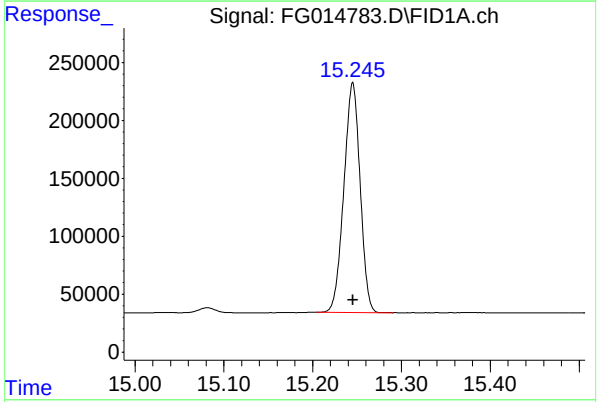
R.T.: 13.385 min
Delta R.T.: 0.000 min
Response: 2235676
Conc: 20.00 ug/ml




#13 n-Docosane (C22)

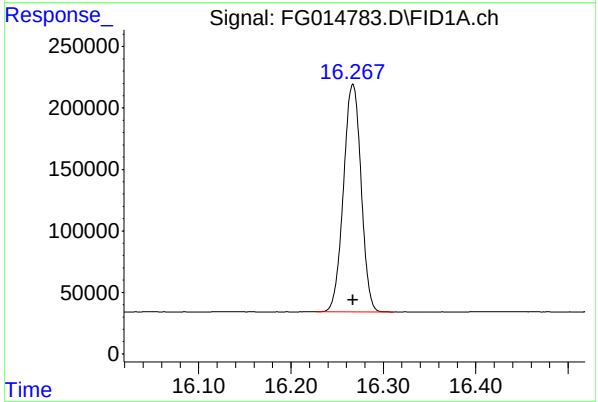
R.T.: 14.141 min
Delta R.T.: 0.000 min
Response: 2570175
Conc: 20.00 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3



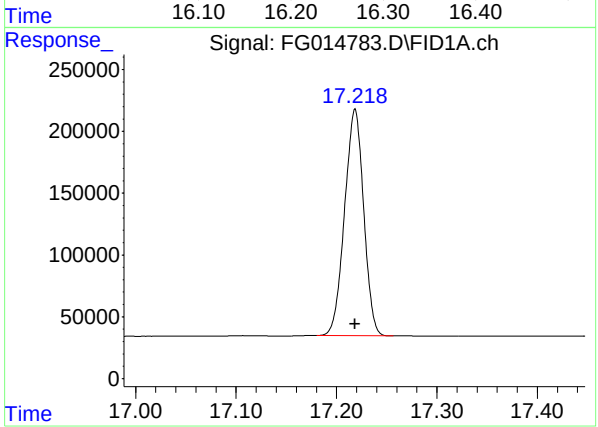

#14 n-Tetracosane (C24)

R.T.: 15.245 min
Delta R.T.: 0.000 min
Response: 2516756
Conc: 20.00 ug/ml



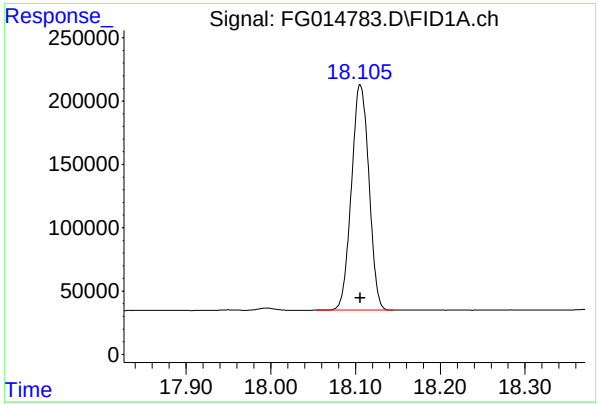

#15 n-Hexacosane (C26)

R.T.: 16.267 min
Delta R.T.: 0.000 min
Response: 2451433
Conc: 20.00 ug/ml




#16 n-Octacosane (C28)

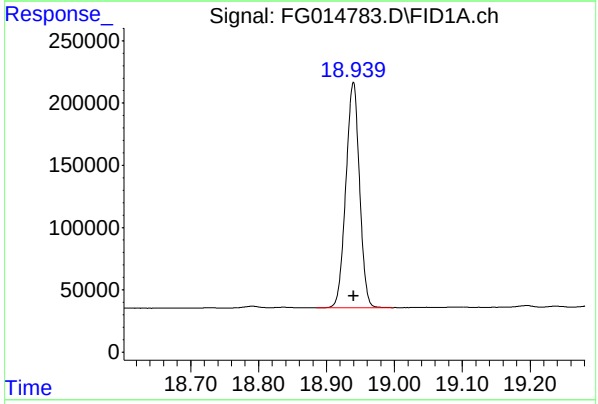
R.T.: 17.219 min
Delta R.T.: 0.000 min
Response: 2420746
Conc: 20.00 ug/ml




#17 n-Tricontane (C30)

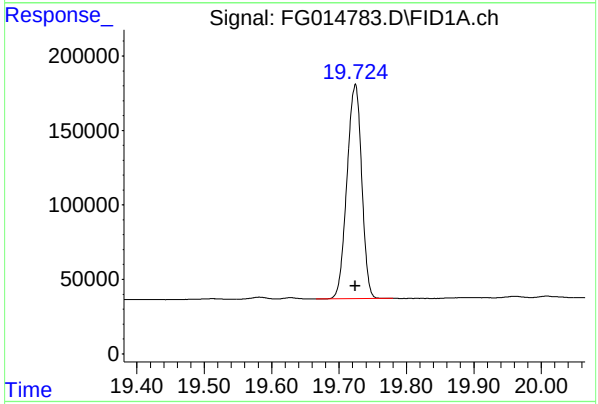
R.T.: 18.106 min
Delta R.T.: 0.000 min
Response: 2554968
Conc: 20.00 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3



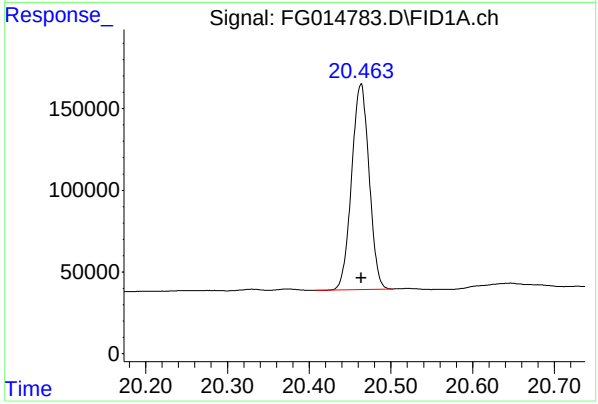

#18 n-Dotriacontane (C32)

R.T.: 18.940 min
Delta R.T.: 0.000 min
Response: 2535899
Conc: 20.00 ug/ml



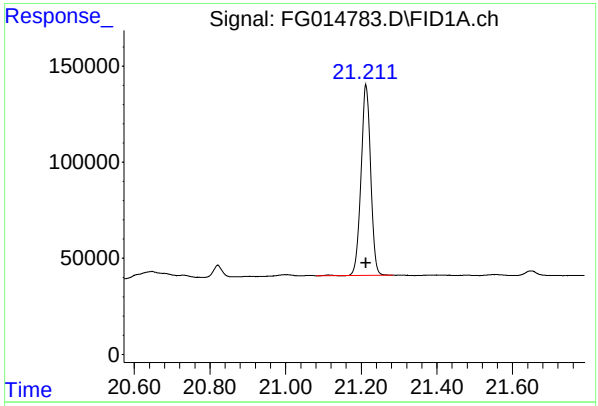

#19 n-Tetratriacontane (C34)

R.T.: 19.724 min
Delta R.T.: 0.000 min
Response: 2187786
Conc: 20.00 ug/ml




#20 n-Hexatriacontane (C36)

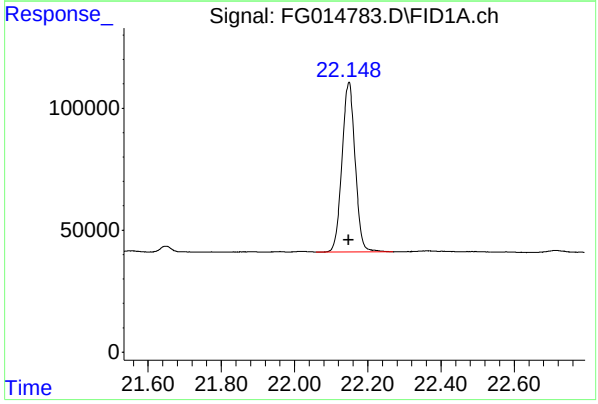
R.T.: 20.463 min
Delta R.T.: 0.000 min
Response: 1869394
Conc: 20.00 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 21.212 min
Delta R.T.: 0.000 min
Response: 1774909
Conc: 20.00 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD3




#22 n-Tetracontane (C40)

R.T.: 22.148 min
Delta R.T.: 0.000 min
Response: 1732983
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014783.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 15:12
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.321 | 3.280 | 3.367 | BB | 277805 | 2724556 | 91.55% | 4.889% |
| 2 | 4.571 | 4.533 | 4.607 | BB | 279977 | 2784544 | 93.57% | 4.996% |
| 3 | 6.274 | 6.238 | 6.314 | BB | 310817 | 2975901 | 100.00% | 5.340% |
| 4 | 6.740 | 6.710 | 6.778 | BB | 281821 | 2814002 | 94.56% | 5.049% |
| 5 | 7.372 | 7.332 | 7.420 | BB | 293533 | 2868763 | 96.40% | 5.148% |
| 6 | 8.571 | 8.538 | 8.613 | BB | 266970 | 2786444 | 93.63% | 5.000% |
| 7 | 10.183 | 10.149 | 10.230 | BB | 261670 | 2849069 | 95.74% | 5.112% |
| 8 | 11.629 | 11.590 | 11.665 | BB | 247842 | 2829344 | 95.08% | 5.077% |
| 9 | 11.946 | 11.913 | 11.983 | BB | 286305 | 2967987 | 99.73% | 5.326% |
| 10 | 12.940 | 12.904 | 12.988 | BB | 226575 | 2670632 | 89.74% | 4.792% |
| 11 | 13.385 | 13.349 | 13.421 | BB | 185780 | 2235676 | 75.13% | 4.012% |
| 12 | 13.554 | 13.518 | 13.600 | BB | 218772 | 2608942 | 87.67% | 4.681% |
| 13 | 14.141 | 14.106 | 14.178 | VB | 217263 | 2570175 | 86.37% | 4.612% |
| 14 | 15.245 | 15.204 | 15.291 | BB | 198582 | 2516756 | 84.57% | 4.516% |
| 15 | 16.267 | 16.227 | 16.311 | BB | 185299 | 2451433 | 82.38% | 4.399% |
| 16 | 17.219 | 17.180 | 17.257 | BB | 183568 | 2420746 | 81.35% | 4.344% |
| 17 | 18.106 | 18.053 | 18.144 | BB | 177925 | 2554968 | 85.86% | 4.584% |
| 18 | 18.940 | 18.885 | 18.998 | BB | 181135 | 2535899 | 85.21% | 4.550% |
| 19 | 19.724 | 19.666 | 19.780 | BB | 144009 | 2187786 | 73.52% | 3.926% |
| 20 | 20.463 | 20.408 | 20.503 | BB | 125997 | 1869394 | 62.82% | 3.354% |
| 21 | 21.212 | 21.080 | 21.284 | BB | 99004 | 1774909 | 59.64% | 3.185% |
| 22 | 22.148 | 22.059 | 22.269 | BB | 69685 | 1732983 | 58.23% | 3.110% |
| | | | Sum of corrected areas: | | | 55730909 | | |

Aliphatic EPH 111424.M Fri Nov 15 02:22:03 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014784.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 15:41
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 14 16:30:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) | S ortho-Terphenyl (SURR) | 11.945 | 1539960 | 10.519 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 21.04% |
| 12) | S 1-chlorooctadecane (S... | 13.384 | 1152530 | 10.413 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 20.83% |
| | Target Compounds | | | |
| 1) | T n-Nonane (C9) | 3.320 | 1417556 | 10.573 ug/ml |
| 2) | T n-Decane (C10) | 4.570 | 1446466 | 10.559 ug/ml |
| 3) | T A~Naphthalene (C11.7) | 6.274 | 1547727 | 10.545 ug/ml |
| 4) | T n-Dodecane (C12) | 6.740 | 1460980 | 10.544 ug/ml |
| 5) | T A~2-methylnaphthalene... | 7.371 | 1485875 | 10.505 ug/ml |
| 6) | T n-Tetradecane (C14) | 8.570 | 1444303 | 10.525 ug/ml |
| 7) | T n-Hexadecane (C16) | 10.182 | 1480407 | 10.544 ug/ml |
| 8) | T n-Octadecane (C18) | 11.627 | 1470337 | 10.537 ug/ml |
| 10) | T n-Eicosane (C20) | 12.939 | 1384214 | 10.510 ug/ml |
| 11) | T n-Heneicosane (C21) | 13.553 | 1357063 | 10.540 ug/ml |
| 13) | T n-Docosane (C22) | 14.140 | 1325753 | 10.478 ug/ml |
| 14) | T n-Tetracosane (C24) | 15.244 | 1293487 | 10.461 ug/ml |
| 15) | T n-Hexacosane (C26) | 16.265 | 1247151 | 10.427 ug/ml |
| 16) | T n-Octacosane (C28) | 17.217 | 1227697 | 10.500 ug/ml |
| 17) | T n-Tricontane (C30) | 18.105 | 1296881 | 10.762 ug/ml |
| 18) | T n-Dotriacontane (C32) | 18.938 | 1309185 | 11.064 ug/ml |
| 19) | T n-Tetratriacontane (C34) | 19.721 | 1142200 | 11.061 ug/ml |
| 20) | T n-Hexatriacontane (C36) | 20.463 | 978340 | 10.956 ug/ml |
| 21) | T n-Octatriacontane (C38) | 21.210 | 926201 | 10.853 ug/ml |
| 22) | T n-Tetracontane (C40) | 22.147 | 896140 | 10.792 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

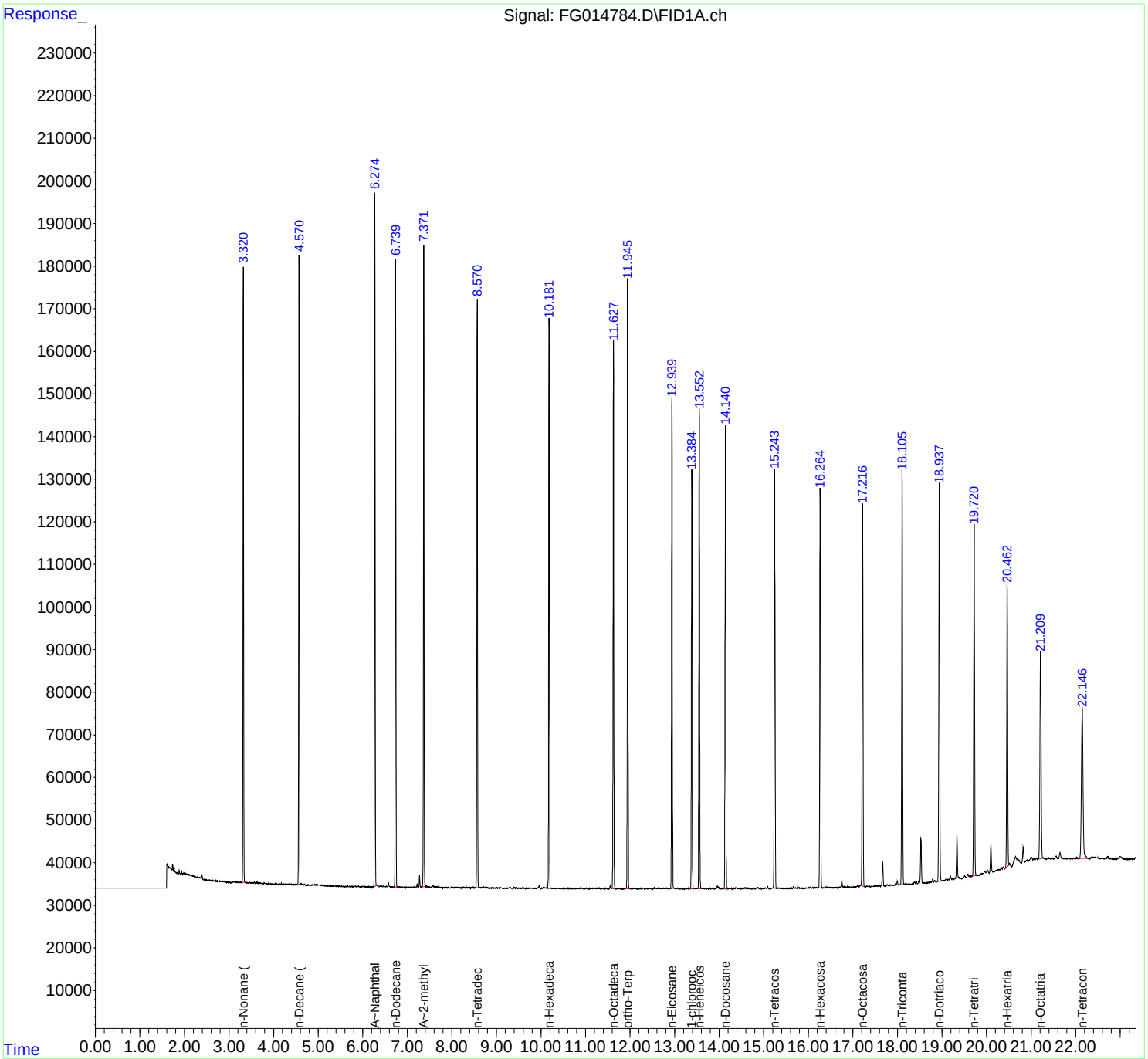
Quantitation Report (QT Reviewed)

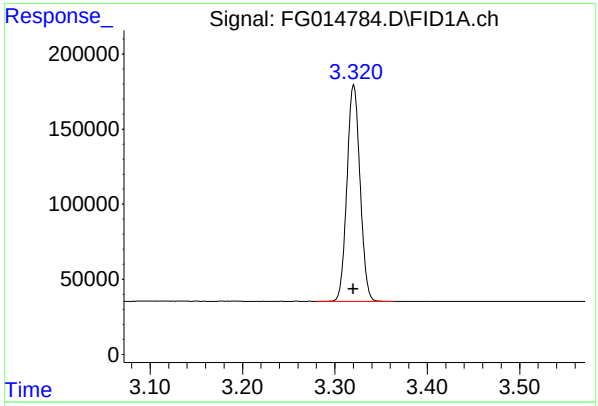
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014784.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 15:41
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 14 16:30:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

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

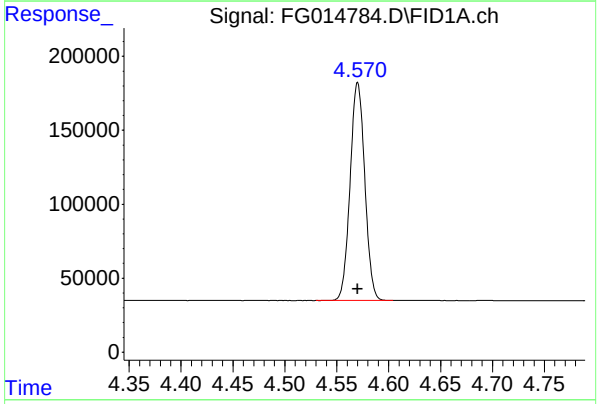





#1 n-Nonane (C9)

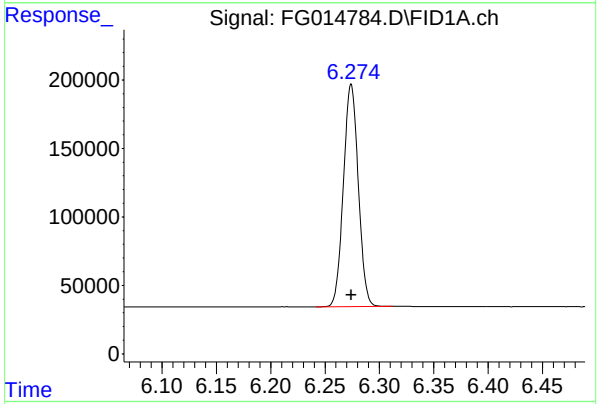
R.T.: 3.320 min
Delta R.T.: 0.000 min
Response: 1417556
Conc: 10.57 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
10 PPM ALIPHATIC HC STD4



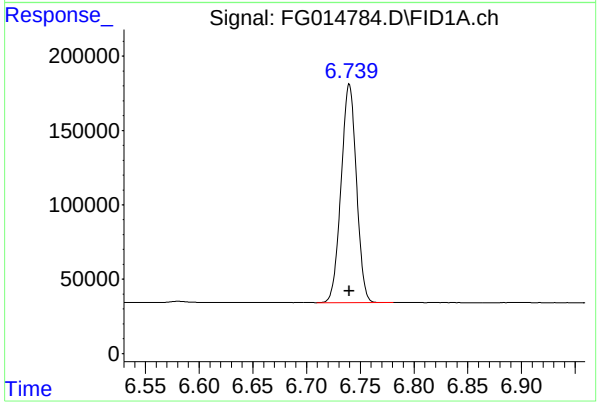

#2 n-Decane (C10)

R.T.: 4.570 min
Delta R.T.: 0.000 min
Response: 1446466
Conc: 10.56 ug/ml



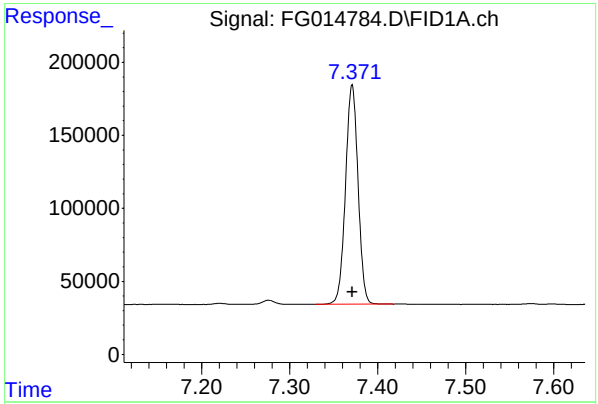

#3 A~Naphthalene (C11.7)

R.T.: 6.274 min
Delta R.T.: 0.000 min
Response: 1547727
Conc: 10.55 ug/ml




#4 n-Dodecane (C12)

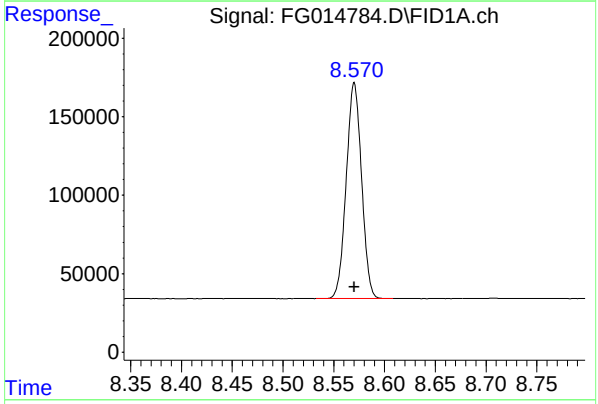
R.T.: 6.740 min
Delta R.T.: 0.000 min
Response: 1460980
Conc: 10.54 ug/ml




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

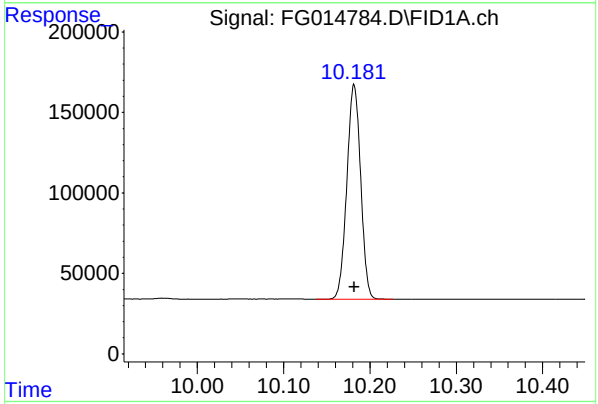
R.T.: 7.371 min
Delta R.T.: 0.000 min
Response: 1485875
Conc: 10.51 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
10 PPM ALIPHATIC HC STD4



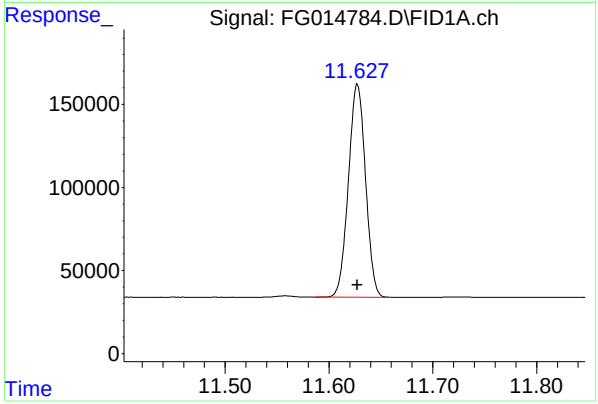

#6 n-Tetradecane (C14)

R.T.: 8.570 min
Delta R.T.: 0.000 min
Response: 1444303
Conc: 10.53 ug/ml



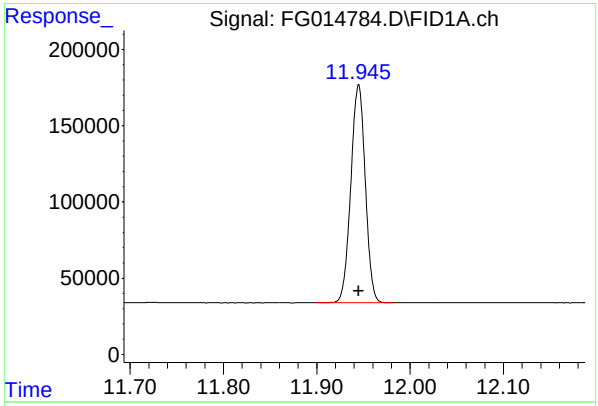

#7 n-Hexadecane (C16)

R.T.: 10.182 min
Delta R.T.: 0.000 min
Response: 1480407
Conc: 10.54 ug/ml




#8 n-Octadecane (C18)

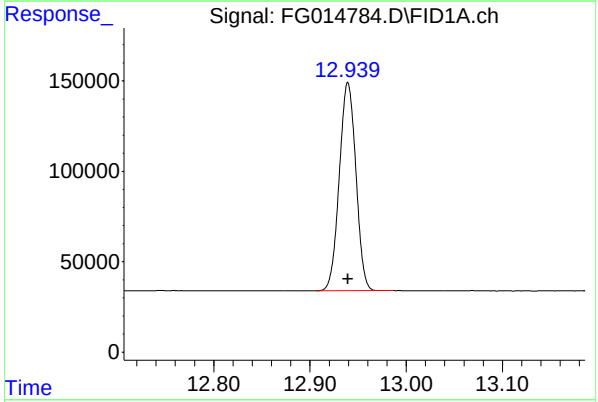
R.T.: 11.627 min
Delta R.T.: 0.000 min
Response: 1470337
Conc: 10.54 ug/ml




#9 ortho-Terphenyl (SURR)

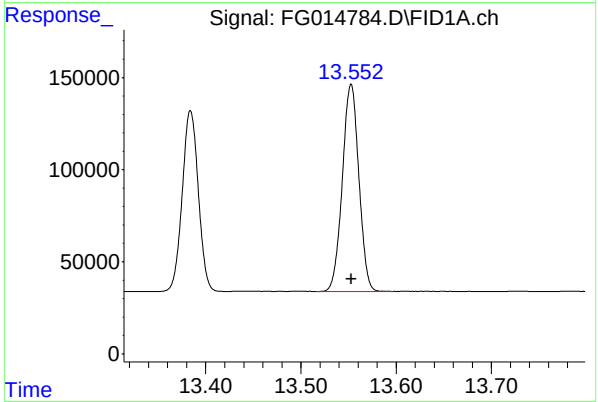
R.T.: 11.945 min
Delta R.T.: 0.000 min
Response: 1539960
Conc: 10.52 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
10 PPM ALIPHATIC HC STD4



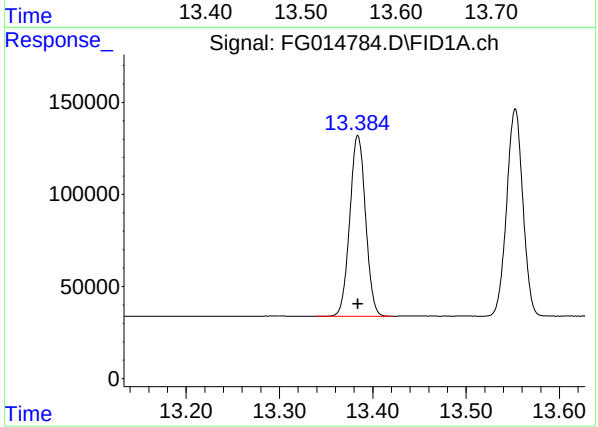

#10 n-Eicosane (C20)

R.T.: 12.939 min
Delta R.T.: 0.000 min
Response: 1384214
Conc: 10.51 ug/ml



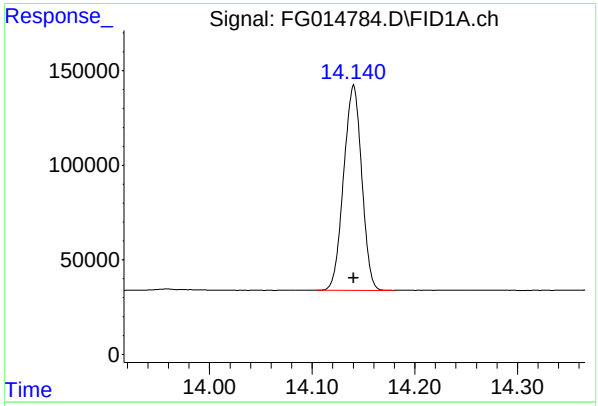

#11 n-Heneicosane (C21)

R.T.: 13.553 min
Delta R.T.: 0.000 min
Response: 1357063
Conc: 10.54 ug/ml




#12 1-chlorooctadecane (SURR)

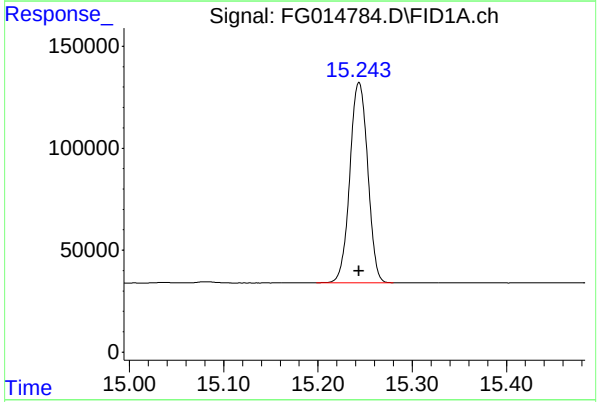
R.T.: 13.384 min
Delta R.T.: 0.000 min
Response: 1152530
Conc: 10.41 ug/ml




#13 n-Docosane (C22)

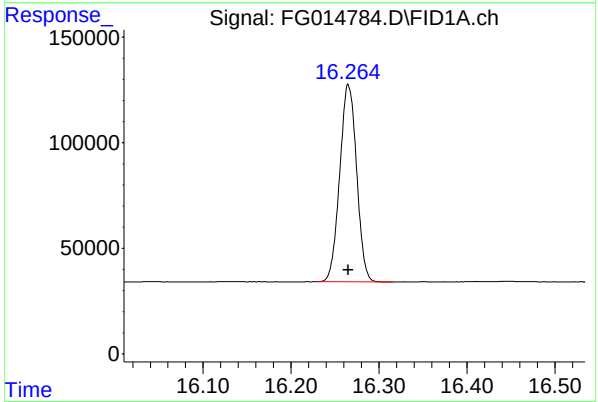
R.T.: 14.140 min
Delta R.T.: 0.000 min
Response: 1325753
Conc: 10.48 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
10 PPM ALIPHATIC HC STD4



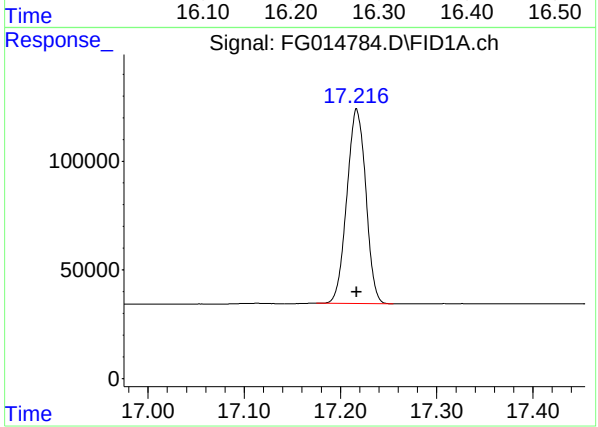

#14 n-Tetracosane (C24)

R.T.: 15.244 min
Delta R.T.: 0.000 min
Response: 1293487
Conc: 10.46 ug/ml



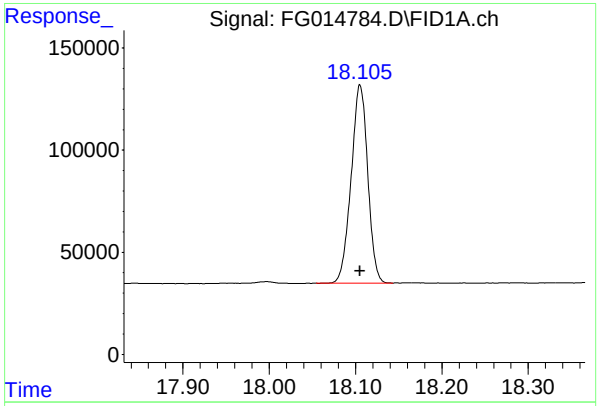

#15 n-Hexacosane (C26)

R.T.: 16.265 min
Delta R.T.: 0.000 min
Response: 1247151
Conc: 10.43 ug/ml




#16 n-Octacosane (C28)

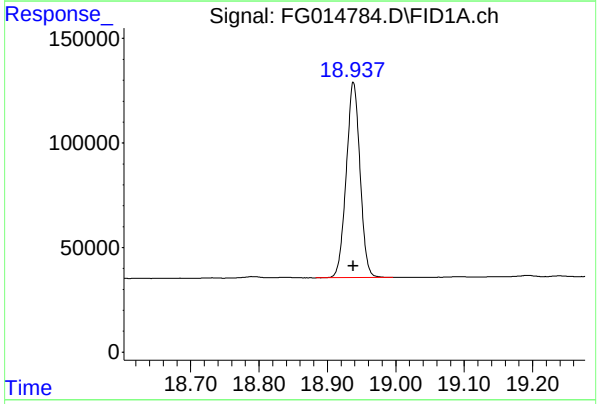
R.T.: 17.217 min
Delta R.T.: 0.000 min
Response: 1227697
Conc: 10.50 ug/ml




#17 n-Tricontane (C30)

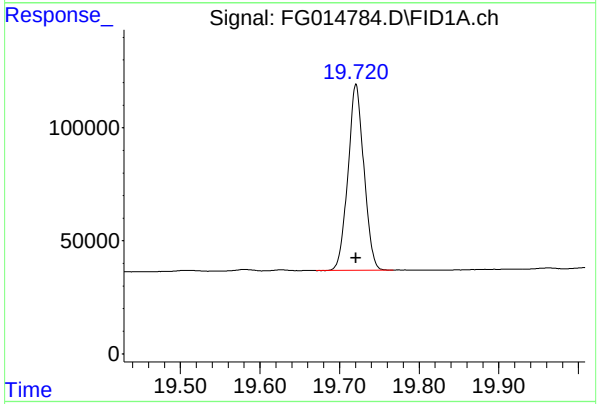
R.T.: 18.105 min
Delta R.T.: 0.000 min
Response: 1296881
Conc: 10.76 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
10 PPM ALIPHATIC HC STD4



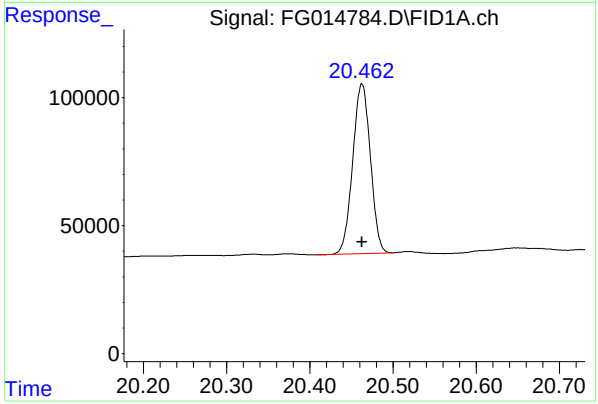

#18 n-Dotriacontane (C32)

R.T.: 18.938 min
Delta R.T.: 0.000 min
Response: 1309185
Conc: 11.06 ug/ml



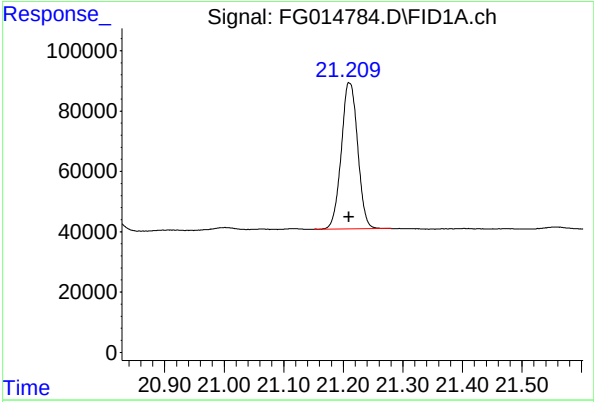

#19 n-Tetratriacontane (C34)

R.T.: 19.721 min
Delta R.T.: 0.000 min
Response: 1142200
Conc: 11.06 ug/ml




#20 n-Hexatriacontane (C36)

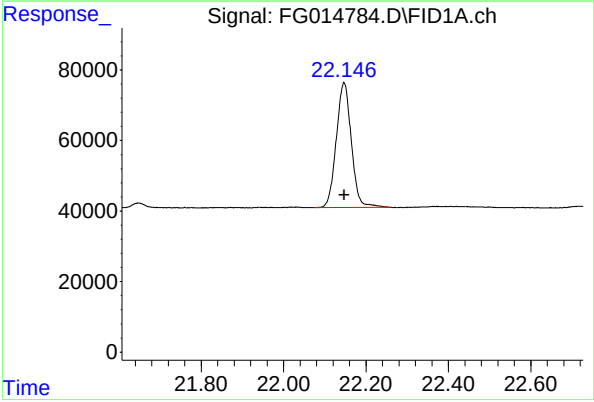
R.T.: 20.463 min
Delta R.T.: 0.000 min
Response: 978340
Conc: 10.96 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 21.210 min
Delta R.T.: 0.000 min
Response: 926201
Conc: 10.85 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
10 PPM ALIPHATIC HC STD4




#22 n-Tetracontane (C40)

R.T.: 22.147 min
Delta R.T.: 0.000 min
Response: 896140
Conc: 10.79 ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014785.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 16:09
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Nov 14 16:32:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) | S ortho-Terphenyl (SURR) | 11.944 | 760995 | 5.157 ug/ml |
| Spiked Amount | 50.000 | Recovery = | 10.31% | |
| 12) | S 1-chlorooctadecane (S... | 13.384 | 564494 | 5.080 ug/ml |
| Spiked Amount | 50.000 | Recovery = | 10.16% | |
| | Target Compounds | | | |
| 1) | T n-Nonane (C9) | 3.321 | 712930 | 5.251 ug/ml |
| 2) | T n-Decane (C10) | 4.570 | 726917 | 5.242 ug/ml |
| 3) | T A~Naphthalene (C11.7) | 6.274 | 773521 | 5.214 ug/ml |
| 4) | T n-Dodecane (C12) | 6.739 | 732894 | 5.229 ug/ml |
| 5) | T A~2-methylnaphthalene... | 7.371 | 739819 | 5.183 ug/ml |
| 6) | T n-Tetradecane (C14) | 8.571 | 721550 | 5.205 ug/ml |
| 7) | T n-Hexadecane (C16) | 10.181 | 734151 | 5.181 ug/ml |
| 8) | T n-Octadecane (C18) | 11.627 | 727935 | 5.172 ug/ml |
| 10) | T n-Eicosane (C20) | 12.939 | 682898 | 5.147 ug/ml |
| 11) | T n-Heneicosane (C21) | 13.552 | 670531 | 5.165 ug/ml |
| 13) | T n-Docosane (C22) | 14.140 | 657075 | 5.153 ug/ml |
| 14) | T n-Tetracosane (C24) | 15.244 | 651417 | 5.212 ug/ml |
| 15) | T n-Hexacosane (C26) | 16.265 | 649397 | 5.338 ug/ml |
| 16) | T n-Octacosane (C28) | 17.216 | 660836 | 5.508 ug/ml |
| 17) | T n-Tricontane (C30) | 18.104 | 724645 | 5.779 ug/ml |
| 18) | T n-Dotriacontane (C32) | 18.936 | 747307 | 6.000 ug/ml |
| 19) | T n-Tetratriacontane (C34) | 19.722 | 635279 | 5.881 ug/ml |
| 20) | T n-Hexatriacontane (C36) | 20.461 | 528474 | 5.709 ug/ml |
| 21) | T n-Octatriacontane (C38) | 21.209 | 483395 | 5.518 ug/ml |
| 22) | T n-Tetracontane (C40) | 22.146 | 439041 | 5.227 ug/ml |

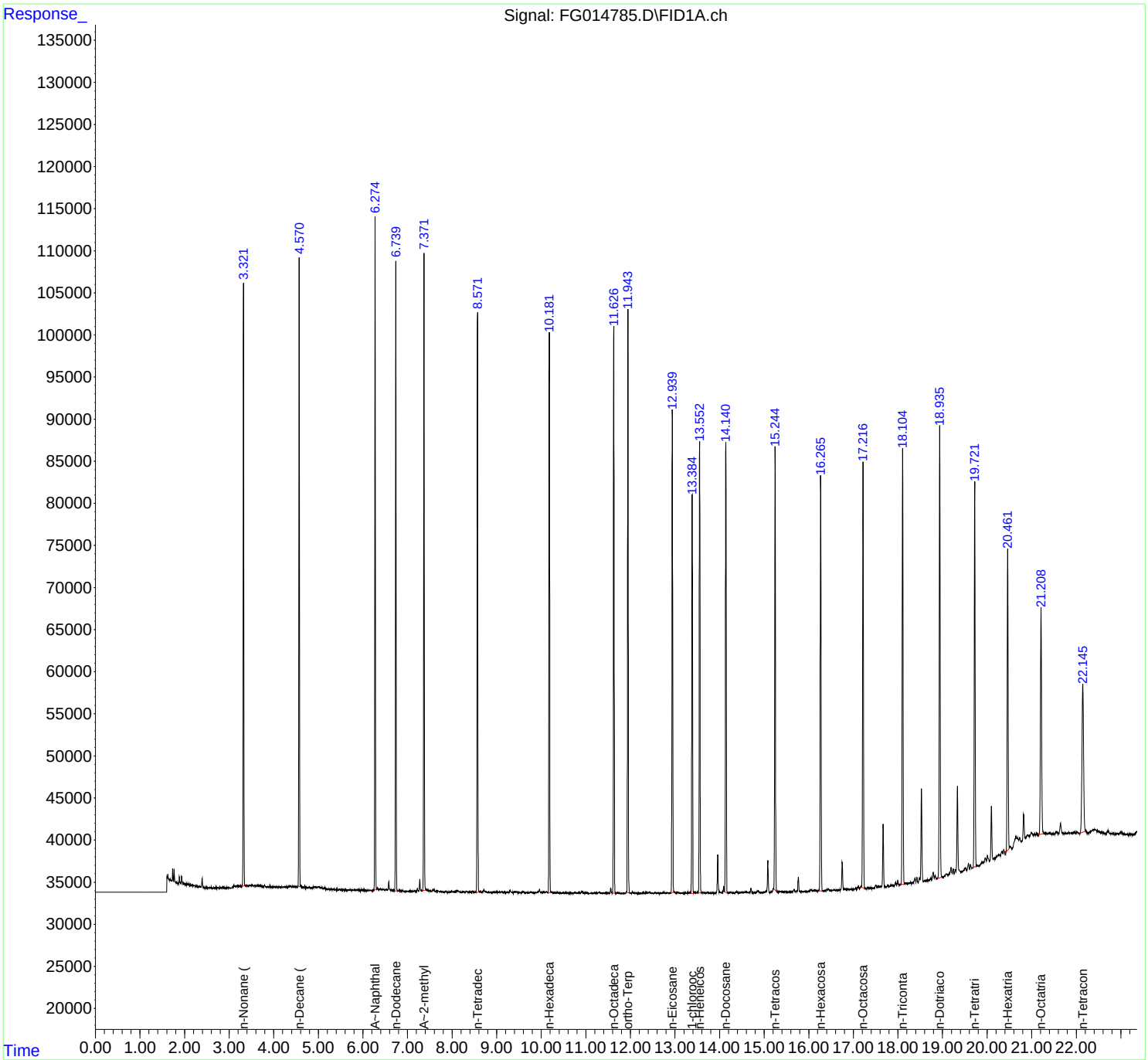
(f)=RT Delta > 1/2 Window (m)=manual int.

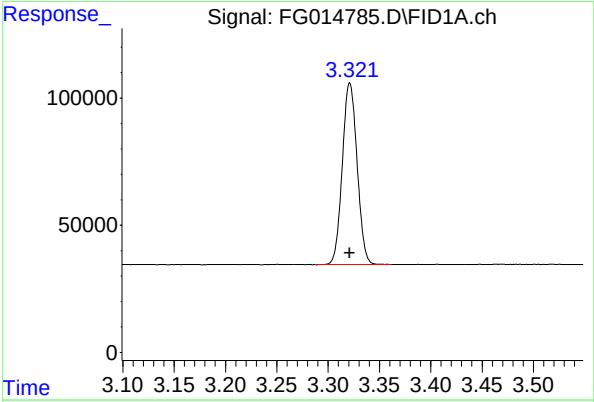
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014785.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 16:09
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Nov 14 16:32:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

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

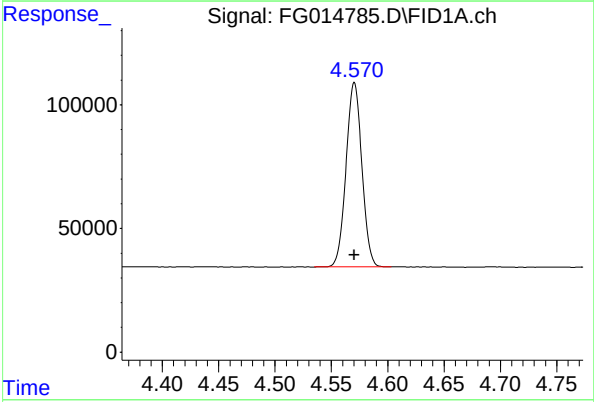





#1 n-Nonane (C9)

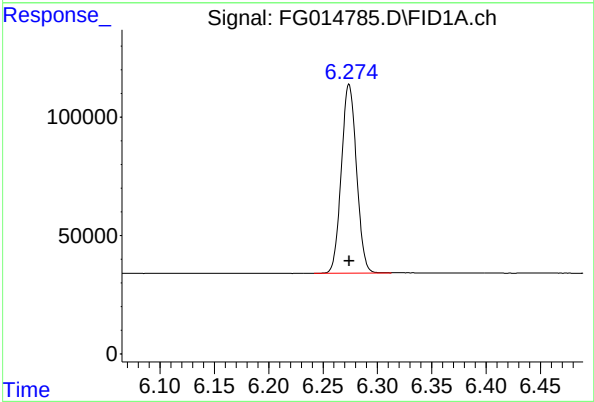
R.T.: 3.321 min
Delta R.T.: 0.000 min
Response: 712930
Conc: 5.25 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5



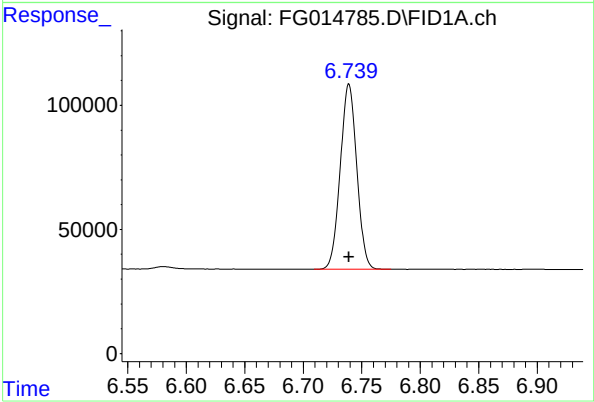

#2 n-Decane (C10)

R.T.: 4.570 min
Delta R.T.: 0.000 min
Response: 726917
Conc: 5.24 ug/ml



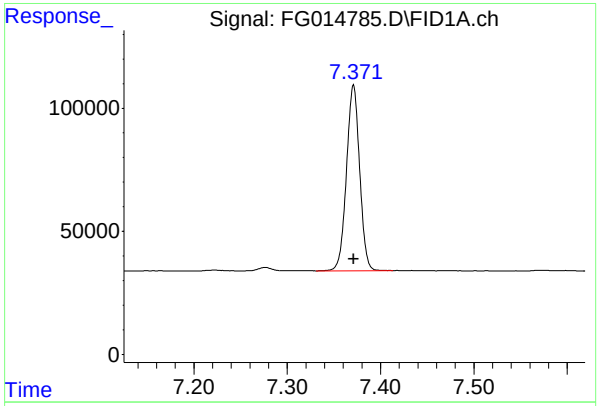

#3 A~Naphthalene (C11.7)

R.T.: 6.274 min
Delta R.T.: 0.000 min
Response: 773521
Conc: 5.21 ug/ml




#4 n-Dodecane (C12)

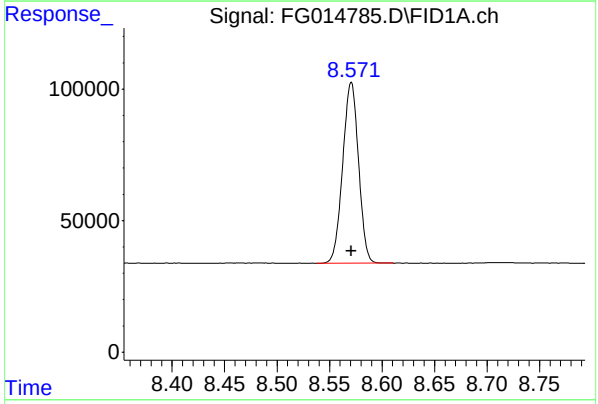
R.T.: 6.739 min
Delta R.T.: 0.000 min
Response: 732894
Conc: 5.23 ug/ml




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

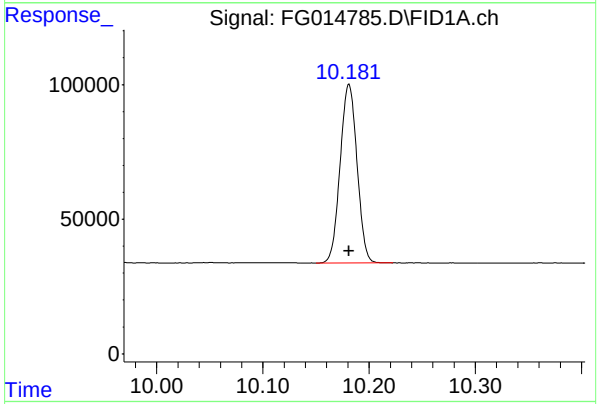
R.T.: 7.371 min
Delta R.T.: 0.000 min
Response: 739819
Conc: 5.18 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5



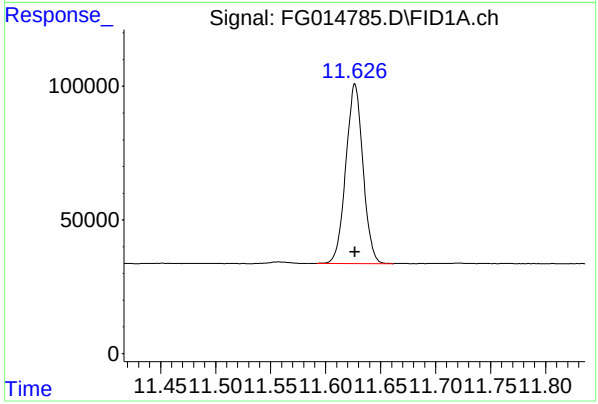

#6 n-Tetradecane (C14)

R.T.: 8.571 min
Delta R.T.: 0.000 min
Response: 721550
Conc: 5.20 ug/ml



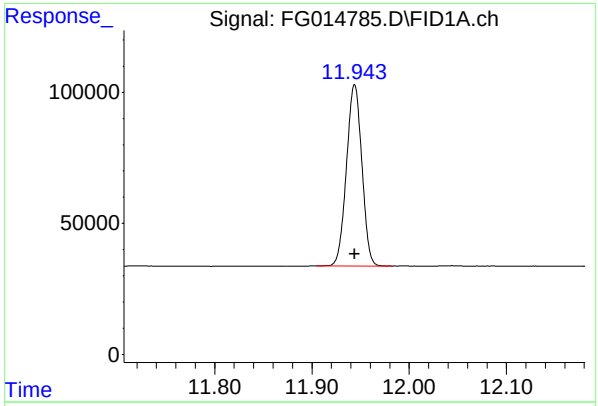

#7 n-Hexadecane (C16)

R.T.: 10.181 min
Delta R.T.: 0.000 min
Response: 734151
Conc: 5.18 ug/ml




#8 n-Octadecane (C18)

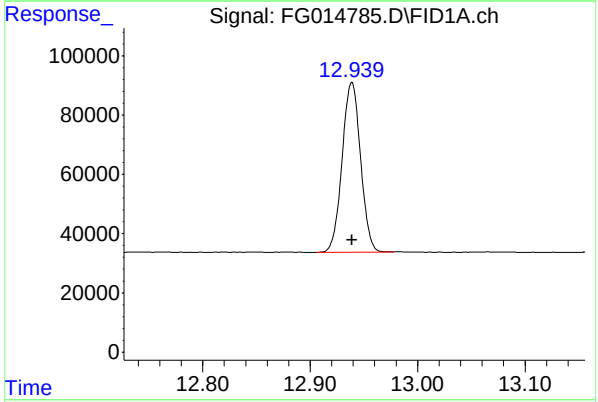
R.T.: 11.627 min
Delta R.T.: 0.000 min
Response: 727935
Conc: 5.17 ug/ml




#9 ortho-Terphenyl (SURR)

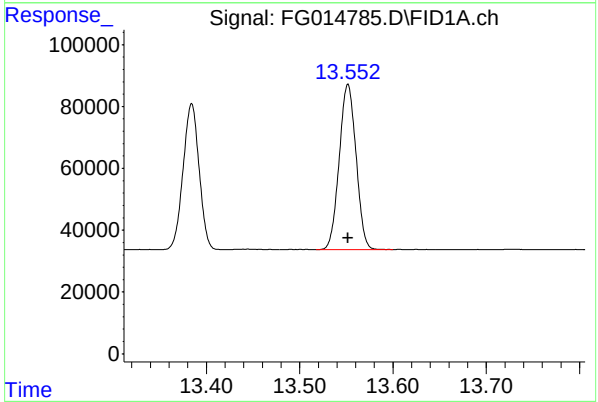
R.T.: 11.944 min
Delta R.T.: 0.000 min
Response: 760995
Conc: 5.16 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5



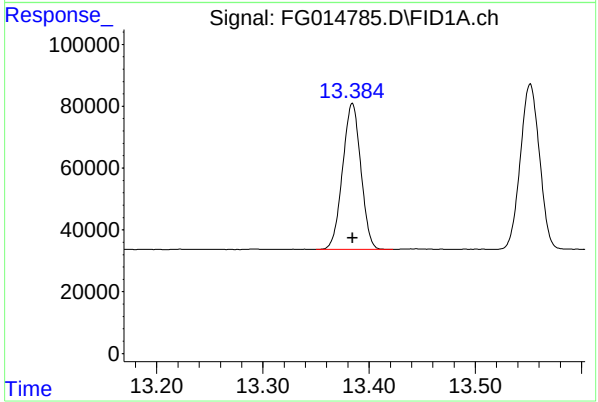

#10 n-Eicosane (C20)

R.T.: 12.939 min
Delta R.T.: 0.000 min
Response: 682898
Conc: 5.15 ug/ml



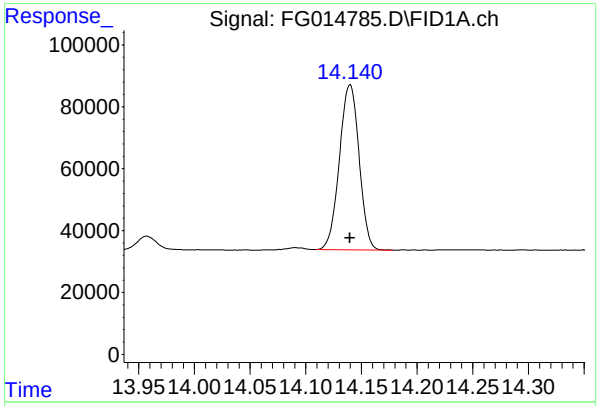

#11 n-Heneicosane (C21)

R.T.: 13.552 min
Delta R.T.: 0.000 min
Response: 670531
Conc: 5.17 ug/ml




#12 1-chlorooctadecane (SURR)

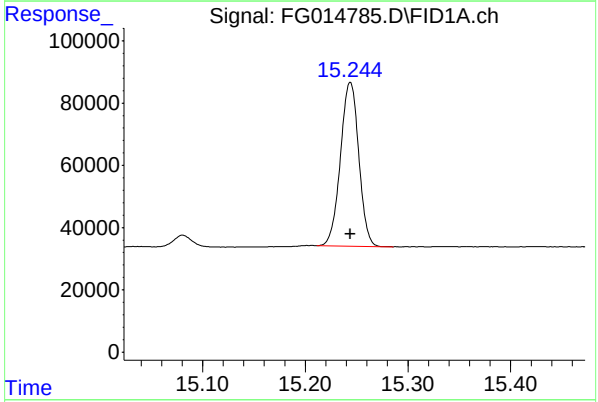
R.T.: 13.384 min
Delta R.T.: 0.000 min
Response: 564494
Conc: 5.08 ug/ml




#13 n-Docosane (C22)

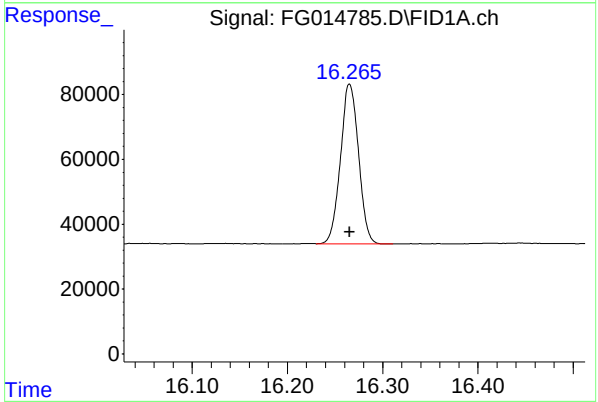
R.T.: 14.140 min
Delta R.T.: 0.000 min
Response: 657075
Conc: 5.15 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5



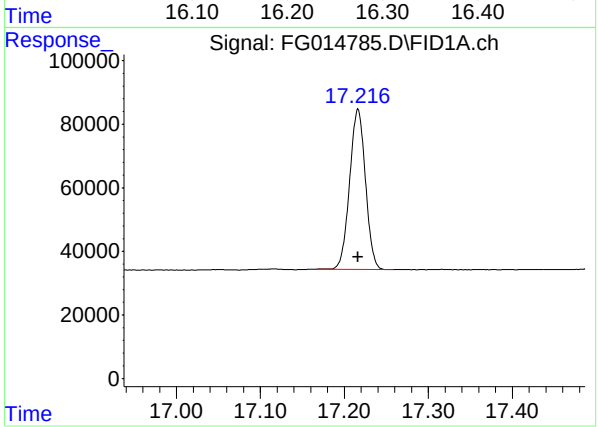

#14 n-Tetracosane (C24)

R.T.: 15.244 min
Delta R.T.: 0.000 min
Response: 651417
Conc: 5.21 ug/ml



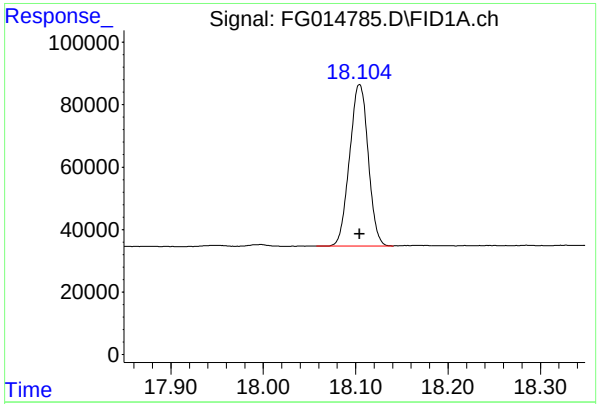

#15 n-Hexacosane (C26)

R.T.: 16.265 min
Delta R.T.: 0.000 min
Response: 649397
Conc: 5.34 ug/ml




#16 n-Octacosane (C28)

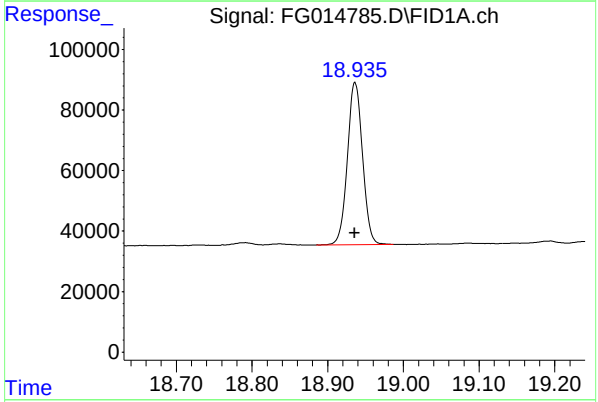
R.T.: 17.216 min
Delta R.T.: 0.000 min
Response: 660836
Conc: 5.51 ug/ml




#17 n-Tricontane (C30)

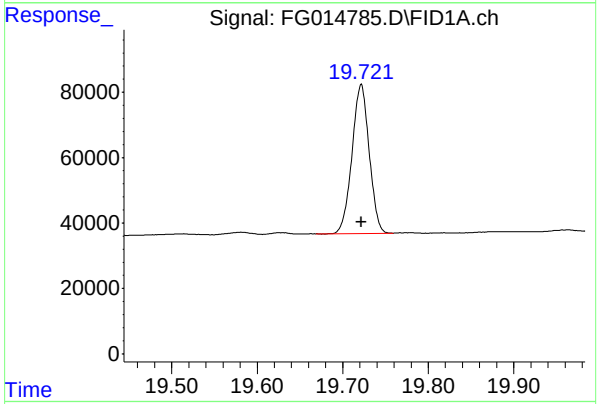
R.T.: 18.104 min
Delta R.T.: 0.000 min
Response: 724645
Conc: 5.78 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5



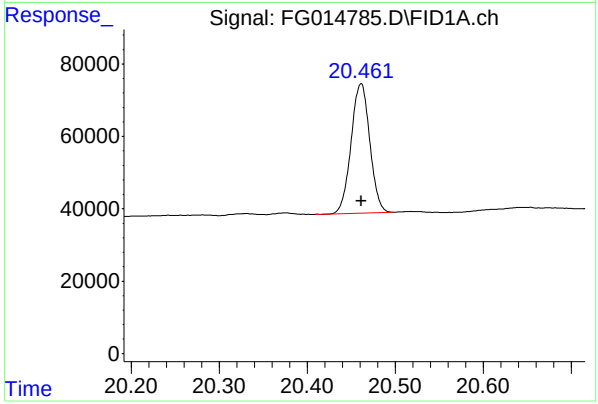

#18 n-Dotriacontane (C32)

R.T.: 18.936 min
Delta R.T.: 0.000 min
Response: 747307
Conc: 6.00 ug/ml



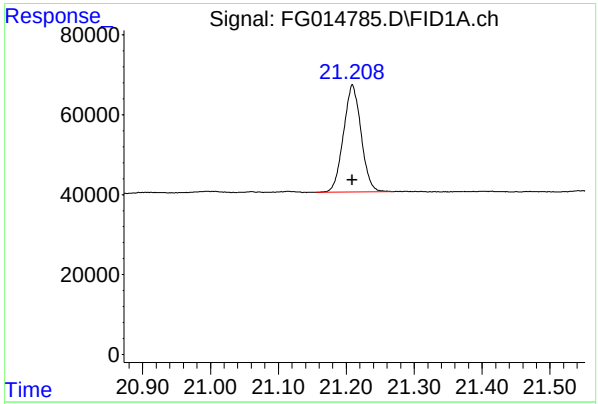

#19 n-Tetratriacontane (C34)

R.T.: 19.722 min
Delta R.T.: 0.000 min
Response: 635279
Conc: 5.88 ug/ml




#20 n-Hexatriacontane (C36)

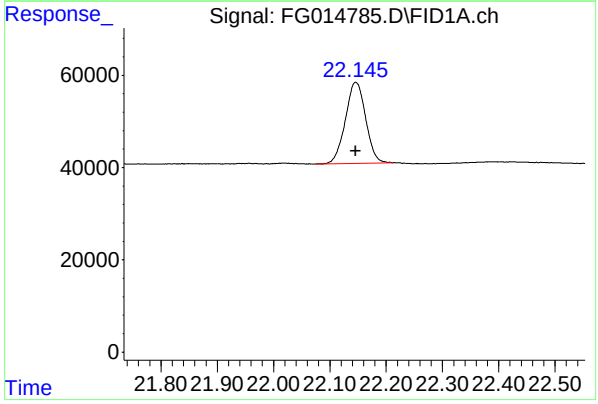
R.T.: 20.461 min
Delta R.T.: 0.000 min
Response: 528474
Conc: 5.71 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 21.209 min
Delta R.T.: 0.000 mi
Response: 483395
Conc: 5.52 ug/m

**Instrument :**
FID_G
**ClientSampleId :**
5 PPM ALIPHATIC HC STD5




#22 n-Tetracontane (C40)

R.T.: 22.146 min
Delta R.T.: 0.000 min
Response: 439041
Conc: 5.23 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014785.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 16:09
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.321 | 3.287 | 3.362 | BB | 71541 | 712930 | 92.17% | 4.841% |
| 2 | 4.570 | 4.535 | 4.603 | BB | 74604 | 726917 | 93.98% | 4.936% |
| 3 | 6.274 | 6.242 | 6.313 | BB | 79822 | 773521 | 100.00% | 5.253% |
| 4 | 6.739 | 6.709 | 6.775 | BB | 74757 | 732894 | 94.75% | 4.977% |
| 5 | 7.371 | 7.331 | 7.413 | BB | 75546 | 739819 | 95.64% | 5.024% |
| 6 | 8.571 | 8.537 | 8.611 | BB | 68887 | 721550 | 93.28% | 4.900% |
| 7 | 10.181 | 10.150 | 10.223 | BB | 66523 | 734151 | 94.91% | 4.986% |
| 8 | 11.627 | 11.592 | 11.662 | BB | 67304 | 727935 | 94.11% | 4.943% |
| 9 | 11.944 | 11.904 | 11.983 | BB | 69219 | 760995 | 98.38% | 5.168% |
| 10 | 12.939 | 12.906 | 12.978 | BB | 57411 | 682898 | 88.28% | 4.638% |
| 11 | 13.384 | 13.350 | 13.423 | BB | 47348 | 564494 | 72.98% | 3.833% |
| 12 | 13.552 | 13.518 | 13.600 | BB | 53579 | 670531 | 86.69% | 4.554% |
| 13 | 14.140 | 14.109 | 14.178 | BB | 53482 | 657075 | 84.95% | 4.462% |
| 14 | 15.244 | 15.211 | 15.286 | BB | 52694 | 651417 | 84.21% | 4.424% |
| 15 | 16.265 | 16.230 | 16.311 | BB | 49334 | 649397 | 83.95% | 4.410% |
| 16 | 17.216 | 17.167 | 17.258 | BB | 50511 | 660836 | 85.43% | 4.488% |
| 17 | 18.104 | 18.058 | 18.141 | BB | 51747 | 724645 | 93.68% | 4.921% |
| 18 | 18.936 | 18.885 | 18.987 | BB | 53683 | 747307 | 96.61% | 5.075% |
| 19 | 19.722 | 19.669 | 19.759 | BB | 45734 | 635279 | 82.13% | 4.314% |
| 20 | 20.461 | 20.410 | 20.498 | BB | 35824 | 528474 | 68.32% | 3.589% |
| 21 | 21.209 | 21.156 | 21.269 | BB | 26908 | 483395 | 62.49% | 3.283% |
| 22 | 22.146 | 22.076 | 22.213 | BB | 17611 | 439041 | 56.76% | 2.982% |
| | | | Sum of corrected areas: | | | 14725497 | | |

Aliphatic EPH 111424.M Fri Nov 15 02:23:21 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014786.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 16:37
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 14 16:59:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.946 | 2955748 | 20.031 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.06% |
| 12) S | 1-chlorooctadecane (S... | 13.386 | 2232608 | 20.090 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.18% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.321 | 2698835 | 19.878 ug/ml |
| 2) T | n-Decane (C10) | 4.571 | 2778669 | 20.038 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 6.274 | 2957643 | 19.936 ug/ml |
| 4) T | n-Dodecane (C12) | 6.740 | 2805464 | 20.016 ug/ml |
| 5) T | A~2-methylnaphthalene... | 7.371 | 2848929 | 19.958 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.572 | 2776560 | 20.027 ug/ml |
| 7) T | n-Hexadecane (C16) | 10.182 | 2839858 | 20.043 ug/ml |
| 8) T | n-Octadecane (C18) | 11.629 | 2825604 | 20.075 ug/ml |
| 10) T | n-Eicosane (C20) | 12.942 | 2672790 | 20.144 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.554 | 2608049 | 20.090 ug/ml |
| 13) T | n-Docosane (C22) | 14.141 | 2588986 | 20.305 ug/ml |
| 14) T | n-Tetracosane (C24) | 15.245 | 2588683 | 20.714 ug/ml |
| 15) T | n-Hexacosane (C26) | 16.266 | 2535077 | 20.837 ug/ml |
| 16) T | n-Octacosane (C28) | 17.217 | 2535934 | 21.137 ug/ml |
| 17) T | n-Tricontane (C30) | 18.106 | 2683094 | 21.397 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.938 | 2651917 | 21.292 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.723 | 2271212 | 21.026 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.463 | 1940132 | 20.957 ug/ml |
| 21) T | n-Octatriacontane (C38) | 21.212 | 1805135 | 20.604 ug/ml |
| 22) T | n-Tetracontane (C40) | 22.146 | 1706028 | 20.312 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

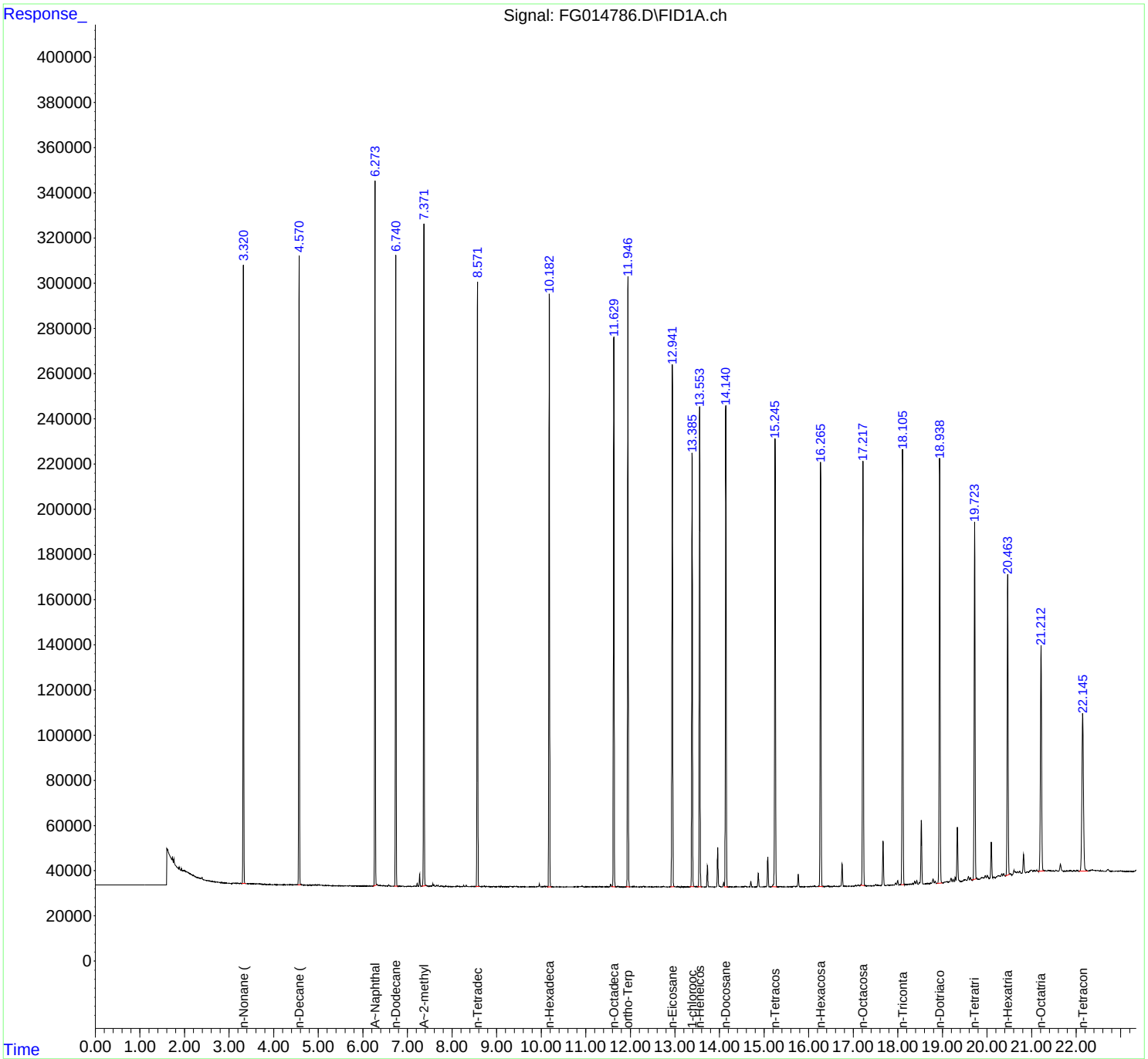
Quantitation Report (QT Reviewed)

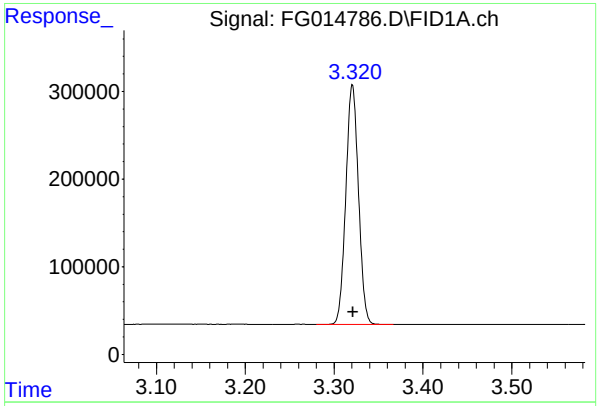
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014786.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 16:37
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 14 16:59:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

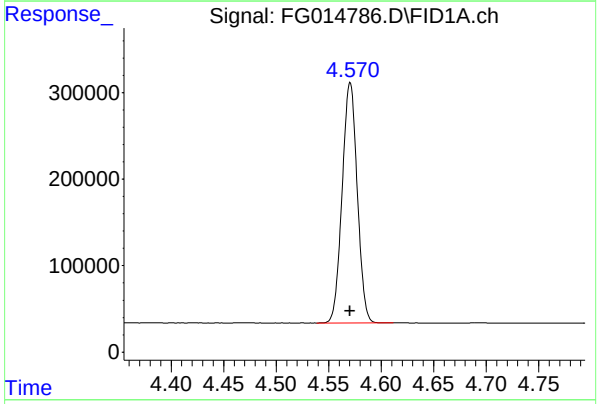





#1 n-Nonane (C9)

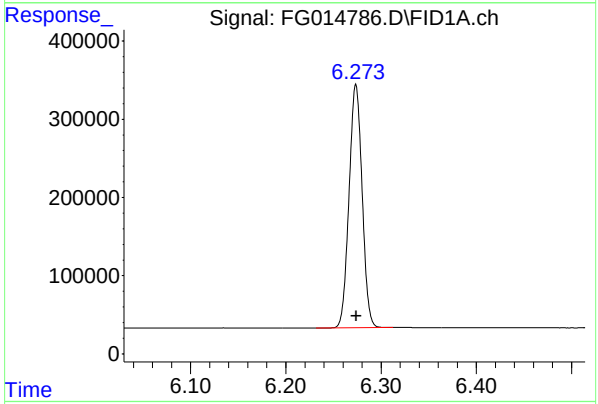
R.T.: 3.321 min
Delta R.T.: 0.000 min
Response: 2698835
Conc: 19.88 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV



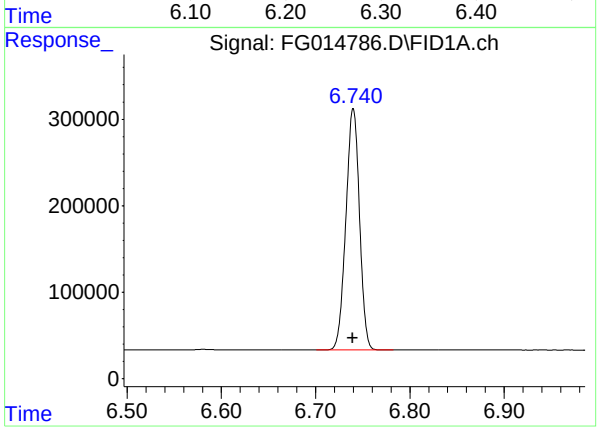

#2 n-Decane (C10)

R.T.: 4.571 min
Delta R.T.: 0.000 min
Response: 2778669
Conc: 20.04 ug/ml



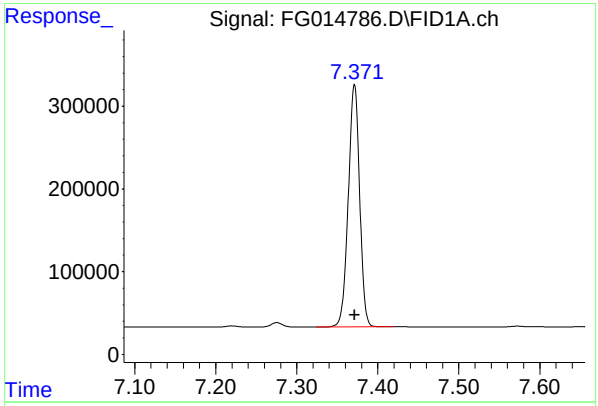

#3 A~Naphthalene (C11.7)

R.T.: 6.274 min
Delta R.T.: 0.000 min
Response: 2957643
Conc: 19.94 ug/ml




#4 n-Dodecane (C12)

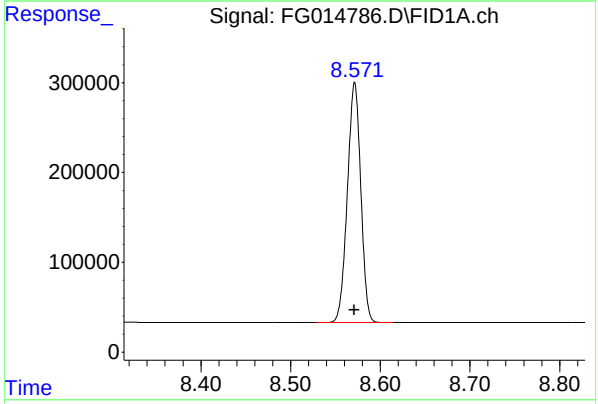
R.T.: 6.740 min
Delta R.T.: 0.000 min
Response: 2805464
Conc: 20.02 ug/ml




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

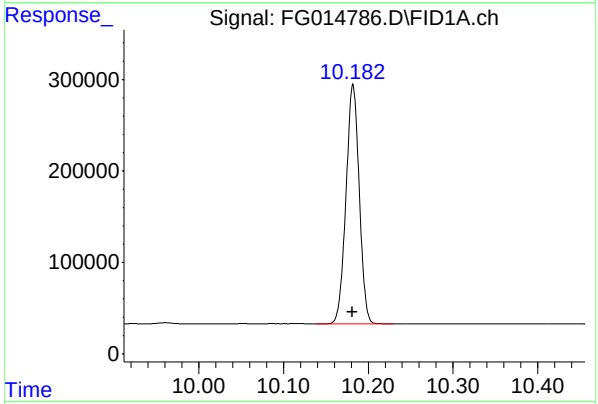
R.T.: 7.371 min
Delta R.T.: 0.000 min
Response: 2848929
Conc: 19.96 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV



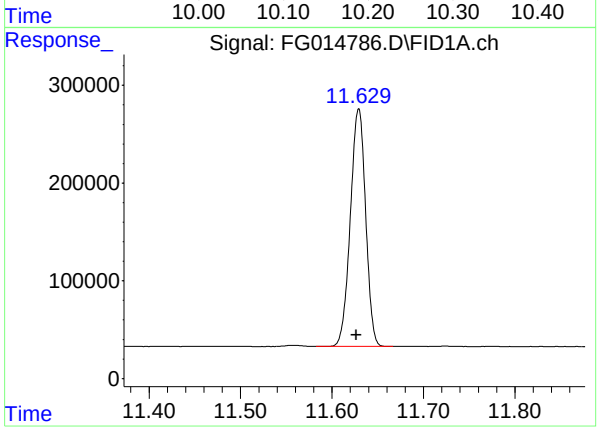

#6 n-Tetradecane (C14)

R.T.: 8.572 min
Delta R.T.: 0.000 min
Response: 2776560
Conc: 20.03 ug/ml



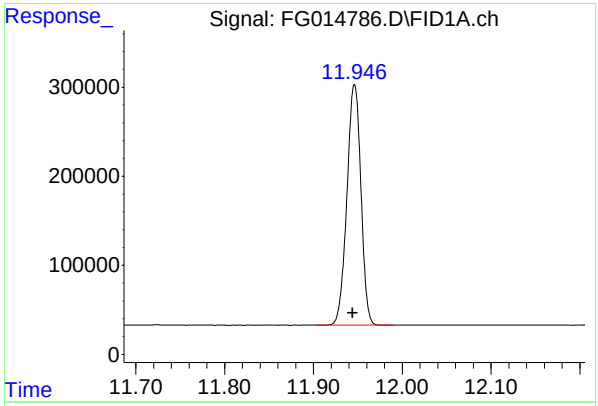

#7 n-Hexadecane (C16)

R.T.: 10.182 min
Delta R.T.: 0.000 min
Response: 2839858
Conc: 20.04 ug/ml




#8 n-Octadecane (C18)

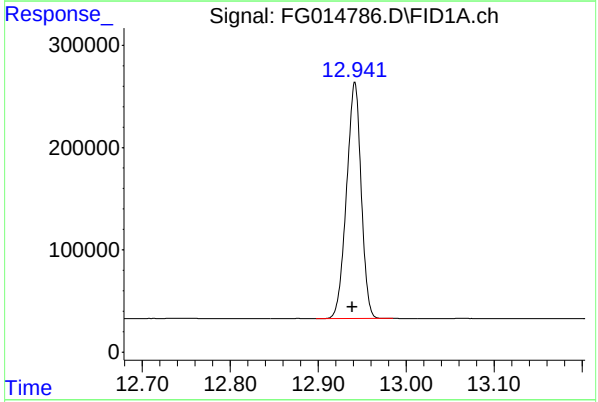
R.T.: 11.629 min
Delta R.T.: 0.003 min
Response: 2825604
Conc: 20.07 ug/ml




#9 ortho-Terphenyl (SURR)

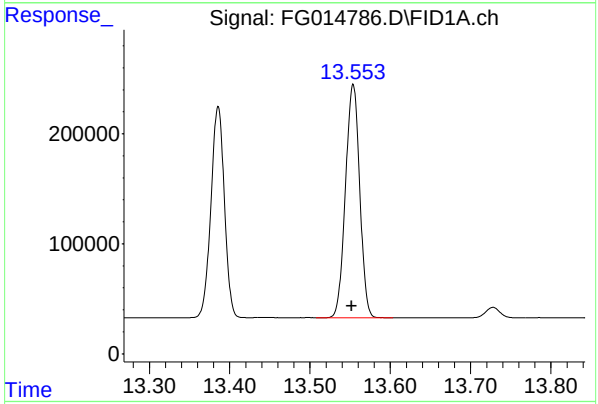
R.T.: 11.946 min
Delta R.T.: 0.002 min
Response: 2955748
Conc: 20.03 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV



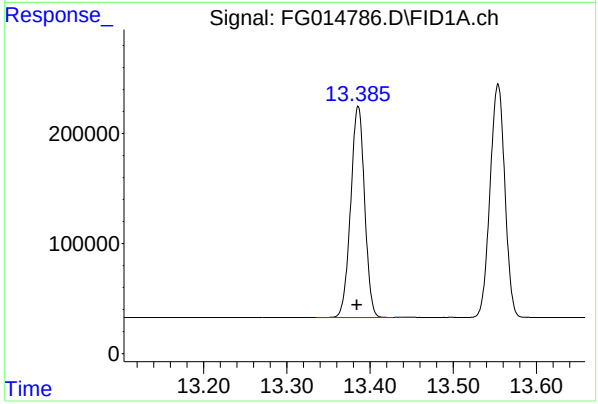

#10 n-Eicosane (C20)

R.T.: 12.942 min
Delta R.T.: 0.003 min
Response: 2672790
Conc: 20.14 ug/ml



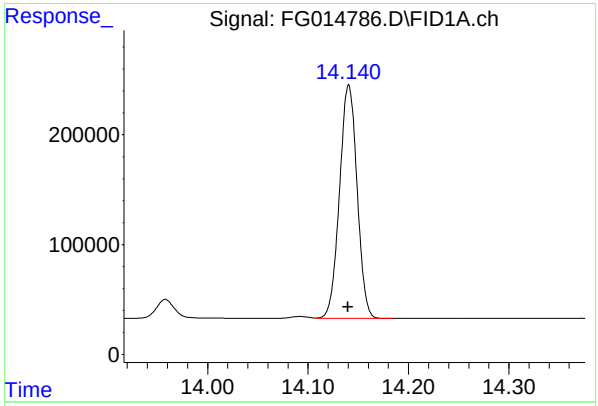

#11 n-Heneicosane (C21)

R.T.: 13.554 min
Delta R.T.: 0.002 min
Response: 2608049
Conc: 20.09 ug/ml




#12 1-chlorooctadecane (SURR)

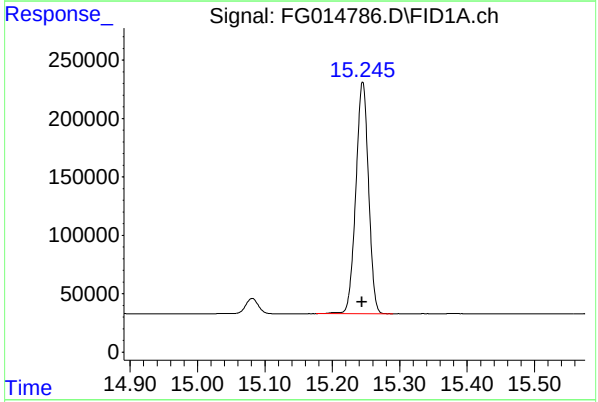
R.T.: 13.386 min
Delta R.T.: 0.001 min
Response: 2232608
Conc: 20.09 ug/ml




#13 n-Docosane (C22)

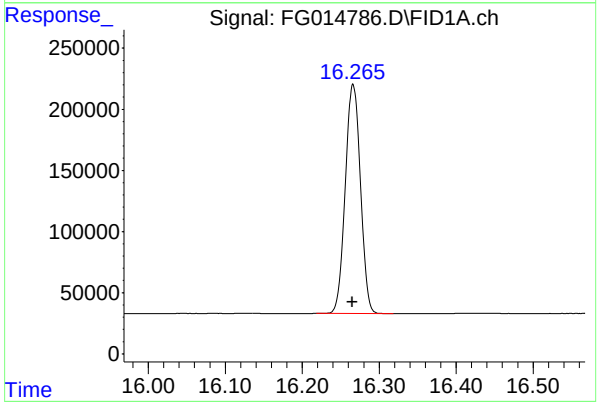
R.T.: 14.141 min
Delta R.T.: 0.000 min
Response: 2588986
Conc: 20.31 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV



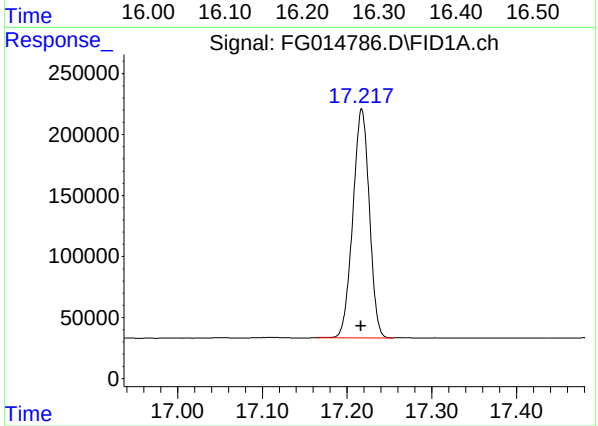

#14 n-Tetracosane (C24)

R.T.: 15.245 min
Delta R.T.: 0.001 min
Response: 2588683
Conc: 20.71 ug/ml



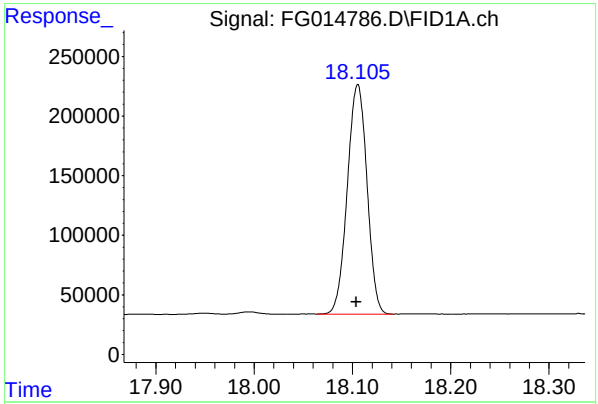

#15 n-Hexacosane (C26)

R.T.: 16.266 min
Delta R.T.: 0.000 min
Response: 2535077
Conc: 20.84 ug/ml




#16 n-Octacosane (C28)

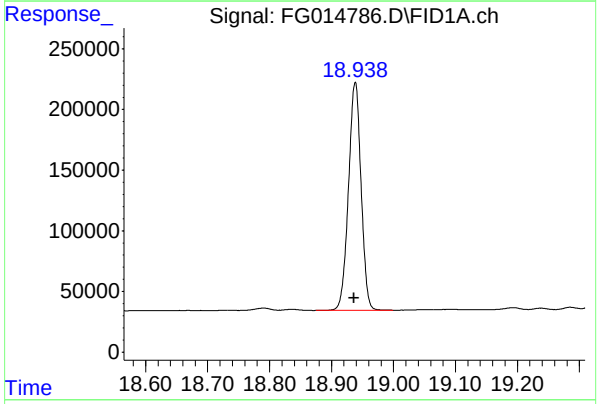
R.T.: 17.217 min
Delta R.T.: 0.001 min
Response: 2535934
Conc: 21.14 ug/ml




#17 n-Tricontane (C30)

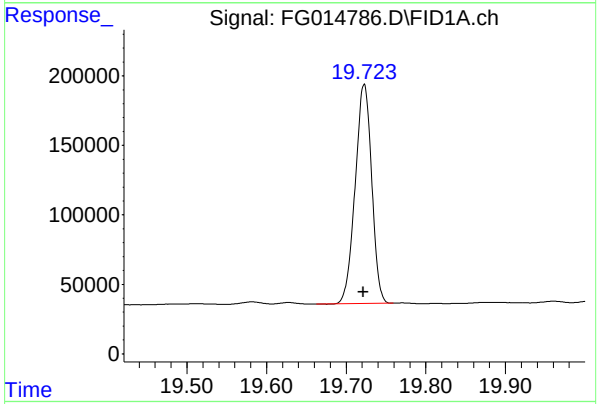
R.T.: 18.106 min
Delta R.T.: 0.001 min
Response: 2683094
Conc: 21.40 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV



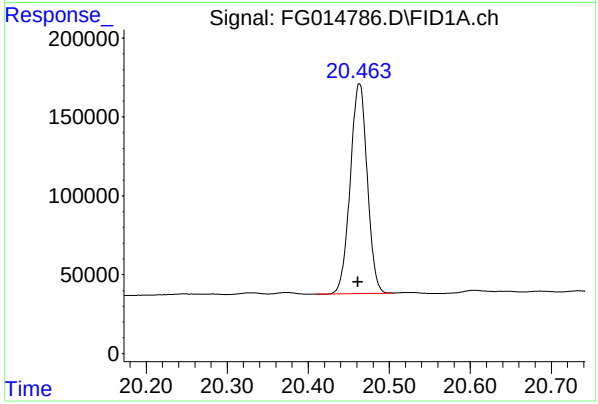

#18 n-Dotriacontane (C32)

R.T.: 18.938 min
Delta R.T.: 0.002 min
Response: 2651917
Conc: 21.29 ug/ml



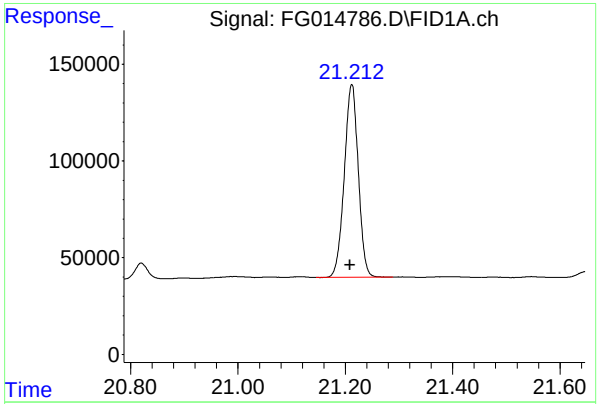

#19 n-Tetratriacontane (C34)

R.T.: 19.723 min
Delta R.T.: 0.000 min
Response: 2271212
Conc: 21.03 ug/ml




#20 n-Hexatriacontane (C36)

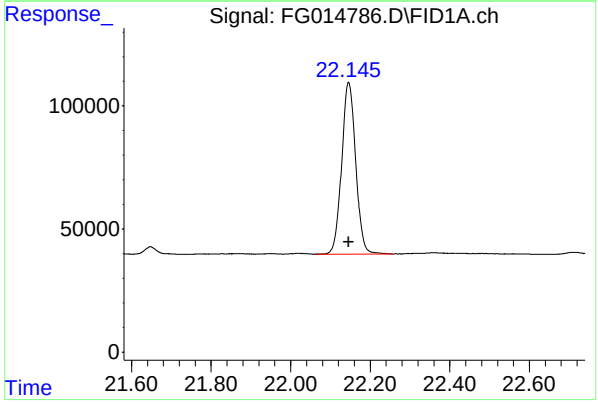
R.T.: 20.463 min
Delta R.T.: 0.002 min
Response: 1940132
Conc: 20.96 ug/ml




#21 n-Octatriacontane (C38)

R.T.: 21.212 min
Delta R.T.: 0.003 min
Response: 1805135
Conc: 20.60 ug/ml

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD ICV




#22 n-Tetracontane (C40)

R.T.: 22.146 min
Delta R.T.: 0.000 min
Response: 1706028
Conc: 20.31 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111424AL\
Data File : FG014786.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 16:37
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.321 | 3.280 | 3.367 | BB | 273571 | 2698835 | 91.25% | 4.793% |
| 2 | 4.571 | 4.538 | 4.612 | BB | 278309 | 2778669 | 93.95% | 4.935% |
| 3 | 6.274 | 6.232 | 6.313 | BB | 311512 | 2957643 | 100.00% | 5.253% |
| 4 | 6.740 | 6.701 | 6.783 | BB | 279469 | 2805464 | 94.85% | 4.982% |
| 5 | 7.371 | 7.324 | 7.419 | BB | 292861 | 2848929 | 96.32% | 5.060% |
| 6 | 8.572 | 8.528 | 8.614 | BB | 267512 | 2776560 | 93.88% | 4.931% |
| 7 | 10.182 | 10.138 | 10.229 | BB | 262075 | 2839858 | 96.02% | 5.044% |
| 8 | 11.629 | 11.583 | 11.667 | BB | 243265 | 2825604 | 95.54% | 5.018% |
| 9 | 11.946 | 11.903 | 11.990 | BB | 269881 | 2955748 | 99.94% | 5.249% |
| 10 | 12.942 | 12.898 | 12.985 | BB | 231285 | 2672790 | 90.37% | 4.747% |
| 11 | 13.386 | 13.335 | 13.428 | BB | 192100 | 2232608 | 75.49% | 3.965% |
| 12 | 13.554 | 13.508 | 13.603 | BB | 212384 | 2608049 | 88.18% | 4.632% |
| 13 | 14.141 | 14.108 | 14.185 | VB | 213103 | 2588986 | 87.54% | 4.598% |
| 14 | 15.245 | 15.176 | 15.290 | BB | 198336 | 2588683 | 87.53% | 4.597% |
| 15 | 16.266 | 16.218 | 16.318 | BB | 187591 | 2535077 | 85.71% | 4.502% |
| 16 | 17.217 | 17.163 | 17.254 | BB | 187603 | 2535934 | 85.74% | 4.504% |
| 17 | 18.106 | 18.063 | 18.142 | BB | 192887 | 2683094 | 90.72% | 4.765% |
| 18 | 18.938 | 18.875 | 18.999 | BB | 188012 | 2651917 | 89.66% | 4.710% |
| 19 | 19.723 | 19.663 | 19.759 | BB | 157886 | 2271212 | 76.79% | 4.034% |
| 20 | 20.463 | 20.410 | 20.505 | BB | 133073 | 1940132 | 65.60% | 3.446% |
| 21 | 21.212 | 21.145 | 21.289 | BB | 99759 | 1805135 | 61.03% | 3.206% |
| 22 | 22.146 | 22.064 | 22.257 | BB | 69870 | 1706028 | 57.68% | 3.030% |
| | | | Sum of corrected areas: | | | 56306954 | | |

Aliphatic EPH 111424.M Fri Nov 15 02:23:59 2024

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

# Continuing Calibration Report for SequenceID : FC111824AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC067806.D** | | | | | | |
| Aliphatic C9-C12 | 10808106.000 | 60.000 | 3.172 | 6.448 | 180135.100 | 165791.359 | -8.652 |
| Aliphatic C12-C16 | 7299351.000 | 40.000 | 6.449 | 9.838 | 182483.775 | 170384.422 | -7.101 |
| Aliphatic C16-C21 | 10410399.000 | 60.000 | 9.839 | 13.196 | 173506.650 | 169621.553 | -2.290 |
| Aliphatic C21-C28 | 13177298.000 | 80.000 | 13.197 | 16.850 | 164716.225 | 157280.060 | -4.728 |
| Aliphatic C28-C40 | 14787957.000 | 120.000 | 16.851 | 21.691 | 123232.975 | 121111.336 | -1.752 |
| Aliphatic EPH | 56483111.000 | 360.000 | 3.172 | 21.691 | 156897.531 | 150155.324 | -4.490 |

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

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 18 Nov 2024 14:50 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC067806.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 10808106.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 7299351.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 10410399.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 13177298.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 14787957.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 56483111.000 | 360.000 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067806.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 04:54:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.489 | 3928762 | 20.264 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.53% |
| 12) S | 1-chlorooctadecane (S... | 12.928 | 2906772 | 20.024 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.05% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.272 | 3527057 | 21.623 ug/ml |
| 2) T | n-Decane (C10) | 4.333 | 3613318 | 21.789 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 5.910 | 3994788 | 21.811 ug/ml |
| 4) T | n-Dodecane (C12) | 6.348 | 3667731 | 21.776 ug/ml |
| 5) T | A~2-methylnaphthalene... | 6.965 | 3868475 | 21.812 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.140 | 3621768 | 21.626 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.738 | 3677583 | 21.221 ug/ml |
| 8) T | n-Octadecane (C18) | 11.179 | 3655843 | 20.779 ug/ml |
| 10) T | n-Eicosane (C20) | 12.486 | 3436942 | 20.411 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.096 | 3317614 | 20.163 ug/ml |
| 13) T | n-Docosane (C22) | 13.682 | 3322411 | 20.401 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.783 | 3368929 | 21.006 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.803 | 3278945 | 21.173 ug/ml |
| 16) T | n-Octacosane (C28) | 16.750 | 3207013 | 21.235 ug/ml |
| 17) T | n-Tricontane (C30) | 17.636 | 3150388 | 20.576 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.468 | 2930222 | 19.840 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.249 | 2515757 | 19.946 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.988 | 2146611 | 20.525 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.711 | 2105835 | 21.558 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.594 | 1939144 | 19.895 ug/ml |

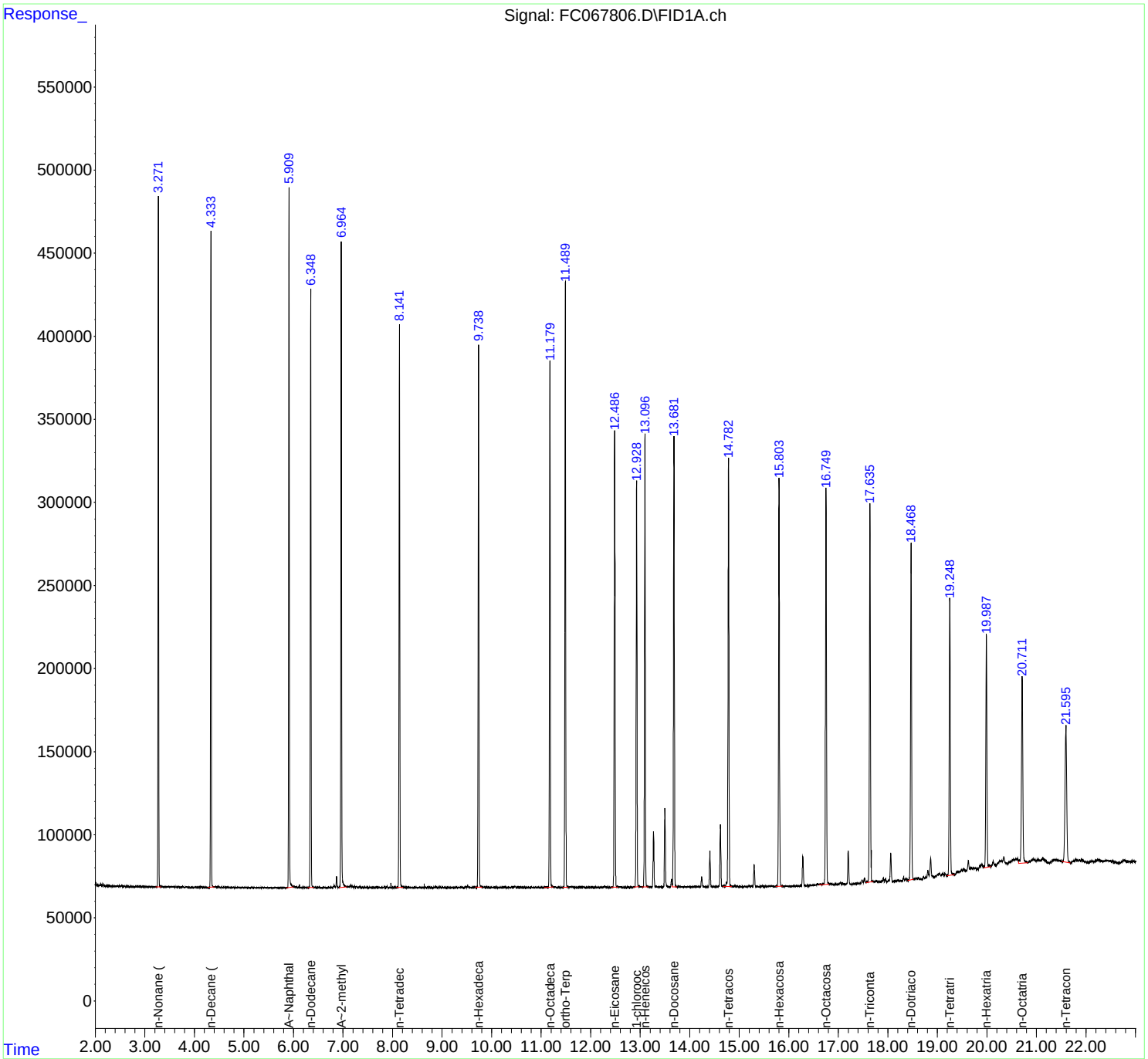
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067806.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 04:54:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067806.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:50
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.272 | 3.217 | 3.327 | BB | 415114 | 3527057 | 88.29% | 4.955% |
| 2 | 4.333 | 4.275 | 4.397 | BB | 395291 | 3613318 | 90.45% | 5.076% |
| 3 | 5.910 | 5.852 | 6.000 | BB | 421273 | 3994788 | 100.00% | 5.612% |
| 4 | 6.348 | 6.285 | 6.405 | BB | 361415 | 3667731 | 91.81% | 5.153% |
| 5 | 6.965 | 6.917 | 7.079 | BB | 389357 | 3868475 | 96.84% | 5.435% |
| 6 | 8.140 | 8.077 | 8.210 | BB | 336907 | 3621768 | 90.66% | 5.088% |
| 7 | 9.738 | 9.670 | 9.814 | BB | 326650 | 3677583 | 92.06% | 5.166% |
| 8 | 11.179 | 11.070 | 11.245 | BB | 315784 | 3655843 | 91.52% | 5.136% |
| 9 | 11.489 | 11.432 | 11.544 | BB | 365777 | 3928762 | 98.35% | 5.519% |
| 10 | 12.486 | 12.420 | 12.552 | BB | 274668 | 3436942 | 86.04% | 4.828% |
| 11 | 12.928 | 12.865 | 12.979 | BB | 245212 | 2906772 | 72.76% | 4.084% |
| 12 | 13.096 | 13.027 | 13.155 | BB | 271962 | 3317614 | 83.05% | 4.661% |
| 13 | 13.682 | 13.649 | 13.747 | VB | 271136 | 3322411 | 83.17% | 4.667% |
| 14 | 14.783 | 14.675 | 14.850 | BB | 255672 | 3368929 | 84.33% | 4.733% |
| 15 | 15.803 | 15.739 | 15.870 | BB | 244860 | 3278945 | 82.08% | 4.606% |
| 16 | 16.750 | 16.610 | 16.820 | BB | 237178 | 3207013 | 80.28% | 4.505% |
| 17 | 17.636 | 17.557 | 17.705 | VB | 223726 | 3150388 | 78.86% | 4.426% |
| 18 | 18.468 | 18.400 | 18.522 | BB | 202694 | 2930222 | 73.35% | 4.117% |
| 19 | 19.249 | 19.200 | 19.347 | BB | 166720 | 2515757 | 62.98% | 3.534% |
| 20 | 19.988 | 19.942 | 20.074 | VB | 139648 | 2146611 | 53.74% | 3.016% |
| 21 | 20.711 | 20.642 | 20.827 | VB | 111940 | 2105835 | 52.71% | 2.958% |
| 22 | 21.594 | 21.510 | 21.687 | BV | 81004 | 1939144 | 48.54% | 2.724% |
| | | | Sum of corrected areas: | | | 71181908 | | |

Aliphatic EPH 111424.M Tue Nov 19 05:23:02 2024

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

# Continuing Calibration Report for SequenceID : FC111824AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC067818.D** | | | | | | |
| Aliphatic C9-C12 | 9264897.000 | 60.000 | 3.172 | 6.448 | 154414.950 | 165791.359 | 6.862 |
| Aliphatic C12-C16 | 6368128.000 | 40.000 | 6.449 | 9.838 | 159203.200 | 170384.422 | 6.562 |
| Aliphatic C16-C21 | 9355867.000 | 60.000 | 9.839 | 13.196 | 155931.117 | 169621.553 | 8.071 |
| Aliphatic C21-C28 | 11909221.000 | 80.000 | 13.197 | 16.850 | 148865.263 | 157280.060 | 5.350 |
| Aliphatic C28-C40 | 13299776.000 | 120.000 | 16.851 | 21.691 | 110831.467 | 121111.336 | 8.488 |
| Aliphatic EPH | 50197889.000 | 360.000 | 3.172 | 21.691 | 139438.581 | 150155.324 | 7.137 |

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Fax : 908 789 8922

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 19 Nov 2024 10:04 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC067818.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 9264897.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 6368128.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 9355867.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 11909221.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 13299776.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 50197889.000 | 360.000 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067818.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:04
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 10:48:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) | S ortho-Terphenyl (SURR) | 11.503 | 3528318 | 18.199 ug/ml |
| | Spiked Amount 50.000 | | Recovery = 36.40% | |
| 12) | S 1-chlorooctadecane (S... | 12.940 | 2626453 | 18.093 ug/ml |
| | Spiked Amount 50.000 | | Recovery = 36.19% | |
| | Target Compounds | | | |
| 1) | T n-Nonane (C9) | 3.287 | 3012585 | 18.469 ug/ml |
| 2) | T n-Decane (C10) | 4.350 | 3095808 | 18.668 ug/ml |
| 3) | T A~Naphthalene (C11.7) | 5.927 | 3406903 | 18.601 ug/ml |
| 4) | T n-Dodecane (C12) | 6.363 | 3156504 | 18.741 ug/ml |
| 5) | T A~2-methylnaphthalene... | 6.981 | 3313148 | 18.681 ug/ml |
| 6) | T n-Tetradecane (C14) | 8.155 | 3138909 | 18.743 ug/ml |
| 7) | T n-Hexadecane (C16) | 9.752 | 3229219 | 18.634 ug/ml |
| 8) | T n-Octadecane (C18) | 11.192 | 3263722 | 18.550 ug/ml |
| 10) | T n-Eicosane (C20) | 12.497 | 3100325 | 18.412 ug/ml |
| 11) | T n-Heneicosane (C21) | 13.108 | 2991820 | 18.183 ug/ml |
| 13) | T n-Docosane (C22) | 13.693 | 3011155 | 18.490 ug/ml |
| 14) | T n-Tetracosane (C24) | 14.794 | 3024154 | 18.856 ug/ml |
| 15) | T n-Hexacosane (C26) | 15.813 | 2974203 | 19.206 ug/ml |
| 16) | T n-Octacosane (C28) | 16.761 | 2899709 | 19.200 ug/ml |
| 17) | T n-Tricontane (C30) | 17.646 | 2851187 | 18.622 ug/ml |
| 18) | T n-Dotriacontane (C32) | 18.477 | 2699699 | 18.279 ug/ml |
| 19) | T n-Tetratriacontane (C34) | 19.259 | 2285731 | 18.122 ug/ml |
| 20) | T n-Hexatriacontane (C36) | 19.997 | 1895069 | 18.120 ug/ml |
| 21) | T n-Octatriacontane (C38) | 20.720 | 1778652 | 18.208 ug/ml |
| 22) | T n-Tetracontane (C40) | 21.607 | 1789438 | 18.359 ug/ml |

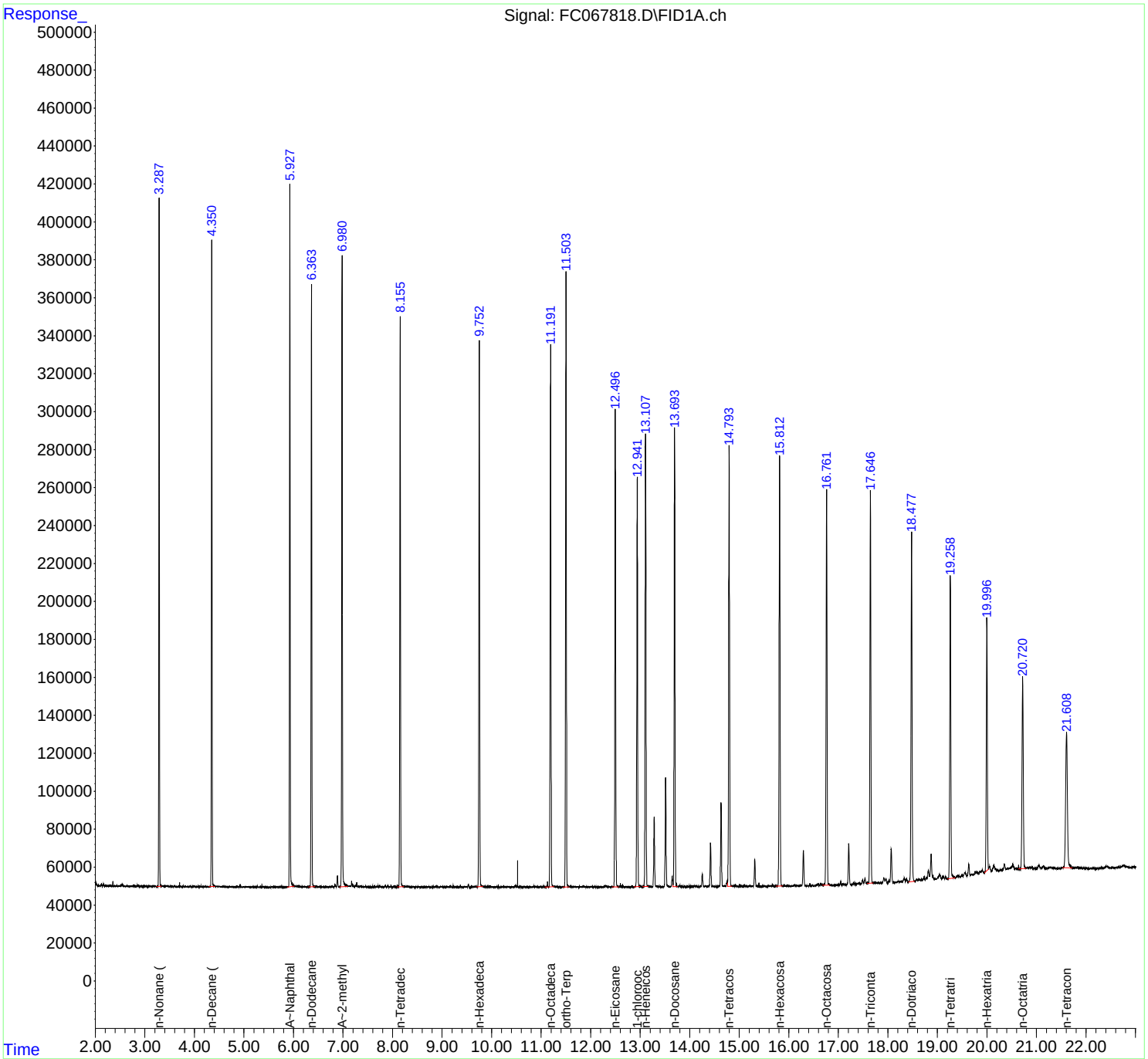
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067818.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:04
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 10:48:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067818.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:04
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.287 | 3.232 | 3.339 | BB | 362499 | 3012585 | 85.38% | 4.776% |
| 2 | 4.350 | 4.294 | 4.410 | BB | 340252 | 3095808 | 87.74% | 4.908% |
| 3 | 5.927 | 5.869 | 6.020 | BB | 368947 | 3406903 | 96.56% | 5.402% |
| 4 | 6.363 | 6.300 | 6.430 | BB | 317719 | 3156504 | 89.46% | 5.005% |
| 5 | 6.981 | 6.934 | 7.097 | BB | 328693 | 3313148 | 93.90% | 5.253% |
| 6 | 8.155 | 8.095 | 8.225 | BB | 301753 | 3138909 | 88.96% | 4.977% |
| 7 | 9.752 | 9.695 | 9.822 | BB | 286934 | 3229219 | 91.52% | 5.120% |
| 8 | 11.192 | 11.072 | 11.264 | BB | 286127 | 3263722 | 92.50% | 5.175% |
| 9 | 11.503 | 11.437 | 11.562 | BB | 325579 | 3528318 | 100.00% | 5.594% |
| 10 | 12.497 | 12.439 | 12.567 | BB | 251270 | 3100325 | 87.87% | 4.915% |
| 11 | 12.940 | 12.874 | 12.999 | BB | 214236 | 2626453 | 74.44% | 4.164% |
| 12 | 13.108 | 13.042 | 13.165 | BB | 235940 | 2991820 | 84.79% | 4.743% |
| 13 | 13.693 | 13.661 | 13.757 | VB | 241142 | 3011155 | 85.34% | 4.774% |
| 14 | 14.794 | 14.762 | 14.849 | VB | 232587 | 3024154 | 85.71% | 4.795% |
| 15 | 15.813 | 15.744 | 15.877 | BB | 227688 | 2974203 | 84.30% | 4.716% |
| 16 | 16.761 | 16.675 | 16.832 | BB | 208873 | 2899709 | 82.18% | 4.597% |
| 17 | 17.646 | 17.574 | 17.700 | BB | 205769 | 2851187 | 80.81% | 4.520% |
| 18 | 18.477 | 18.414 | 18.545 | BV | 184447 | 2699699 | 76.52% | 4.280% |
| 19 | 19.259 | 19.195 | 19.357 | BB | 158486 | 2285731 | 64.78% | 3.624% |
| 20 | 19.997 | 19.954 | 20.033 | BV | 132513 | 1895069 | 53.71% | 3.005% |
| 21 | 20.720 | 20.640 | 20.789 | BB | 100767 | 1778652 | 50.41% | 2.820% |
| 22 | 21.607 | 21.522 | 21.722 | BB | 70817 | 1789438 | 50.72% | 2.837% |
| | | | Sum of corrected areas: | | | 63072709 | | |

Aliphatic EPH 111424.M Tue Nov 19 10:52:02 2024

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

# Continuing Calibration Report for SequenceID : FD111824AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD048757.D** | | | | | | |
| Aromatic EPH | 69408621.000 | 360.000 | 4.088 | 18.081 | 192801.725 | 173317.266 | -11.242 |
| Aromatic C10-C12 | 8631046.000 | 40.000 | 4.088 | 5.805 | 215776.150 | 192017.544 | -12.373 |
| Aromatic C12-C16 | 12868534.000 | 60.000 | 5.806 | 8.411 | 214475.567 | 192458.977 | -11.440 |
| Aromatic C16-C21 | 16327633.000 | 80.000 | 8.412 | 12.674 | 204095.413 | 185804.816 | -9.844 |
| Aromatic C21-C36 | 31581408.000 | 180.000 | 12.675 | 18.081 | 175452.267 | 157231.056 | -11.589 |

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Fax : 908 789 8922

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 18 Nov 2024 08:49 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD048757.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 8631046.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 12868534.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 16327633.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 31581408.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 69408621.000 | 360.000 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048757.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 08:49
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:54:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.365 | 3864258 | 21.949 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 43.90% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.215 | 2550819 | 22.148 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 44.30% |
| 11) S | ortho-Terphenyl (SURR) | 11.249 | 4252381 | 22.109 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 44.22% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.188 | 4269062 | 22.652 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.705 | 4361984 | 22.304 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.752 | 4258994 | 22.286 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.017 | 4347374 | 22.418 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.311 | 4262166 | 22.159 ug/ml |
| 8) T | Flouorene (C16.55) | 9.090 | 4250474 | 22.155 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.477 | 4069911 | 22.203 ug/ml |
| 10) T | Anthracene (C19.43) | 10.553 | 4014865 | 21.439 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.281 | 4104132 | 22.412 ug/ml |
| 13) T | Pyrene (C20.8) | 12.574 | 3992383 | 22.083 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.444 | 3698445 | 22.483 ug/ml |
| 15) T | Chrysene (C27.41) | 14.486 | 3850730 | 22.002 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 15.991 | 3516932 | 22.384 ug/mlm |
| 17) T | Bnezo[k]fluoranthene ... | 16.022 | 3782863 | 23.180 ug/mlm |
| 18) T | Benzo[a]pyrene (C31.34) | 16.367 | 3319405 | 22.263 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.731 | 2680453 | 21.699 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.771 | 3533401 | 22.532 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.981 | 3095047 | 21.691 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048757.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 08:49
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

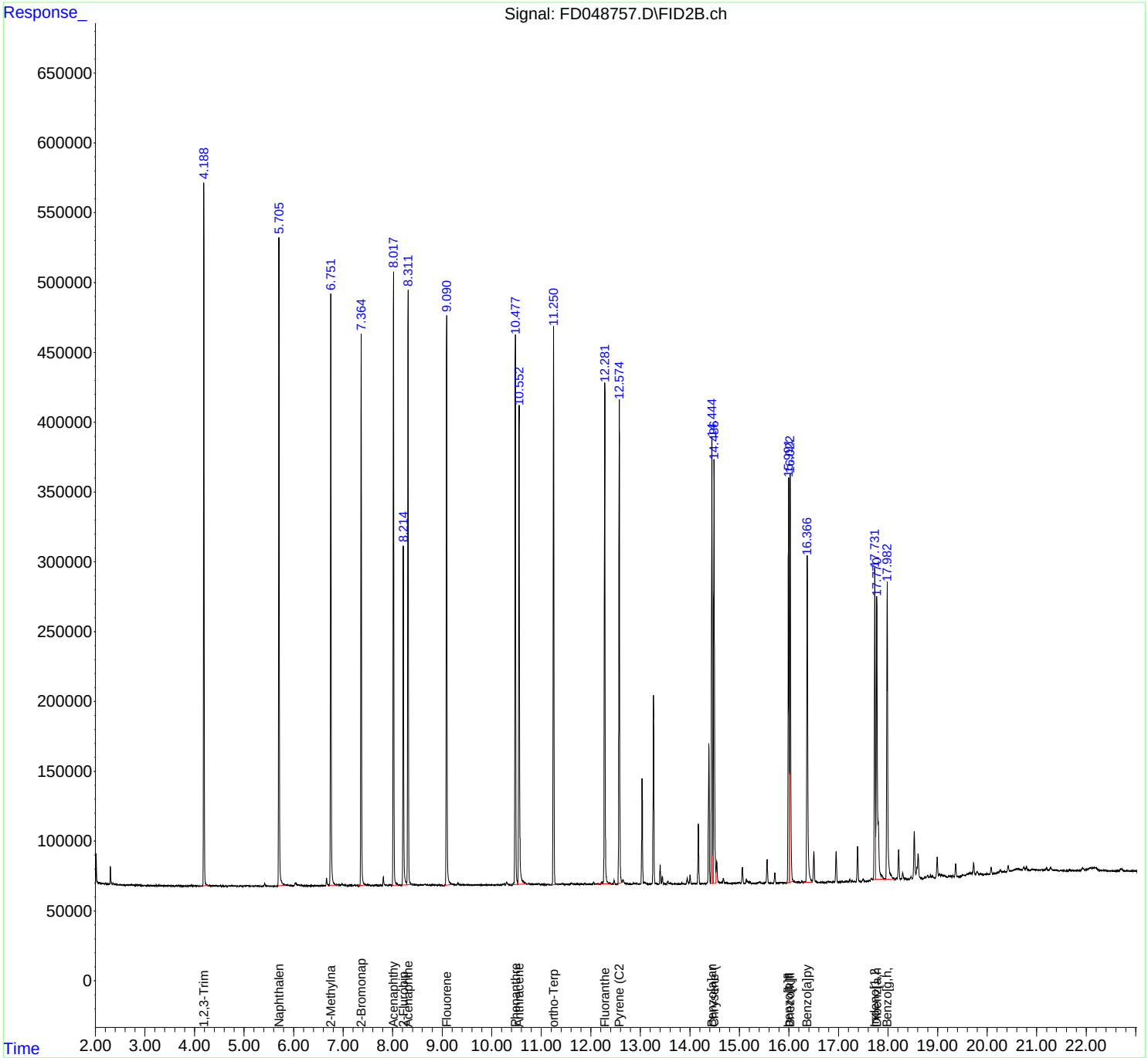
**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:54:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



**Instrument :**
FID_D
**LabSampleId :**
20 PPM AROMATIC HC STD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048757.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 08:49
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.188 | 4.141 | 4.264 | BB | 500945 | 4269062 | 97.87% | 5.335% |
| 2 | 5.705 | 5.651 | 5.841 | BB | 461881 | 4361984 | 100.00% | 5.451% |
| 3 | 6.752 | 6.718 | 6.878 | BV | 421069 | 4258994 | 97.64% | 5.323% |
| 4 | 7.365 | 7.301 | 7.461 | BB | 395389 | 3864258 | 88.59% | 4.829% |
| 5 | 8.017 | 7.991 | 8.128 | BB | 439454 | 4347374 | 99.67% | 5.433% |
| 6 | 8.215 | 8.161 | 8.284 | BV | 242551 | 2550819 | 58.48% | 3.188% |
| 7 | 8.311 | 8.284 | 8.408 | VB | 425204 | 4262166 | 97.71% | 5.327% |
| 8 | 9.090 | 9.024 | 9.204 | BB | 409963 | 4250474 | 97.44% | 5.312% |
| 9 | 10.477 | 10.371 | 10.523 | BV | 392924 | 4069911 | 93.30% | 5.086% |
| 10 | 10.553 | 10.523 | 10.701 | VB | 340033 | 4014865 | 92.04% | 5.018% |
| 11 | 11.249 | 11.181 | 11.344 | BB | 405231 | 4252381 | 97.49% | 5.314% |
| 12 | 12.281 | 12.138 | 12.404 | BB | 359877 | 4104132 | 94.09% | 5.129% |
| 13 | 12.574 | 12.514 | 12.629 | BV | 348189 | 3992383 | 91.53% | 4.989% |
| 14 | 14.444 | 14.411 | 14.464 | PV | 321742 | 3698445 | 84.79% | 4.622% |
| 15 | 14.486 | 14.464 | 14.524 | VV | 298970 | 3850730 | 88.28% | 4.812% |
| 16 | 15.991 | 15.958 | 16.004 | M | 289952 | 3422466 | 78.46% | 4.277% |
| 17 | 16.022 | 16.005 | 16.097 | M | 292418 | 3816996 | 87.51% | 4.770% |
| 18 | 16.367 | 16.298 | 16.468 | BV | 233680 | 3319405 | 76.10% | 4.148% |
| 19 | 17.731 | 17.701 | 17.750 | BV | 223035 | 2680453 | 61.45% | 3.350% |
| 20 | 17.771 | 17.750 | 17.948 | VB | 202888 | 3533401 | 81.00% | 4.416% |
| 21 | 17.981 | 17.948 | 18.138 | BV | 212689 | 3095047 | 70.96% | 3.868% |
| | | | Sum of corrected areas: | | | 80015745 | | |

Aromatic EPH 111424.M Tue Nov 19 06:13:08 2024

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

# Continuing Calibration Report for SequenceID : FD111824AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD048765.D** | | | | | | |
| Aromatic EPH | 63335238.000 | 360.000 | 4.088 | 18.081 | 175931.217 | 173317.266 | -1.508 |
| Aromatic C10-C12 | 7925969.000 | 40.000 | 4.088 | 5.805 | 198149.225 | 192017.544 | -3.193 |
| Aromatic C12-C16 | 11827424.000 | 60.000 | 5.806 | 8.411 | 197123.733 | 192458.977 | -2.424 |
| Aromatic C16-C21 | 14986986.000 | 80.000 | 8.412 | 12.674 | 187337.325 | 185804.816 | -0.825 |
| Aromatic C21-C36 | 28594859.000 | 180.000 | 12.675 | 18.081 | 158860.328 | 157231.056 | -1.036 |

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

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 18 Nov 2024 14:50 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD048765.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 7925969.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 11827424.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 14986986.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 28594859.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 63335238.000 | 360.000 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048765.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:50
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 05:55:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.364 | 3556539 | 20.201 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.40% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.214 | 2354468 | 20.443 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 40.89% |
| 11) S | ortho-Terphenyl (SURR) | 11.251 | 3916513 | 20.363 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 40.73% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.188 | 3920054 | 20.800 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.705 | 4005915 | 20.483 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.751 | 3914147 | 20.482 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.017 | 3984402 | 20.546 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.311 | 3928875 | 20.426 ug/ml |
| 8) T | Flouorene (C16.55) | 9.090 | 3907781 | 20.369 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.477 | 3752894 | 20.474 ug/ml |
| 10) T | Anthracene (C19.43) | 10.553 | 3667901 | 19.586 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.281 | 3762981 | 20.549 ug/ml |
| 13) T | Pyrene (C20.8) | 12.575 | 3658410 | 20.235 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.445 | 3379117 | 20.541 ug/ml |
| 15) T | Chrysene (C27.41) | 14.486 | 3529051 | 20.164 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 15.991 | 3161804 | 20.124 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.023 | 3424577 | 20.984 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.368 | 2978912 | 19.980 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.732 | 2460908 | 19.922 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.772 | 3185393 | 20.313 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.983 | 2712116 | 19.008 ug/ml |

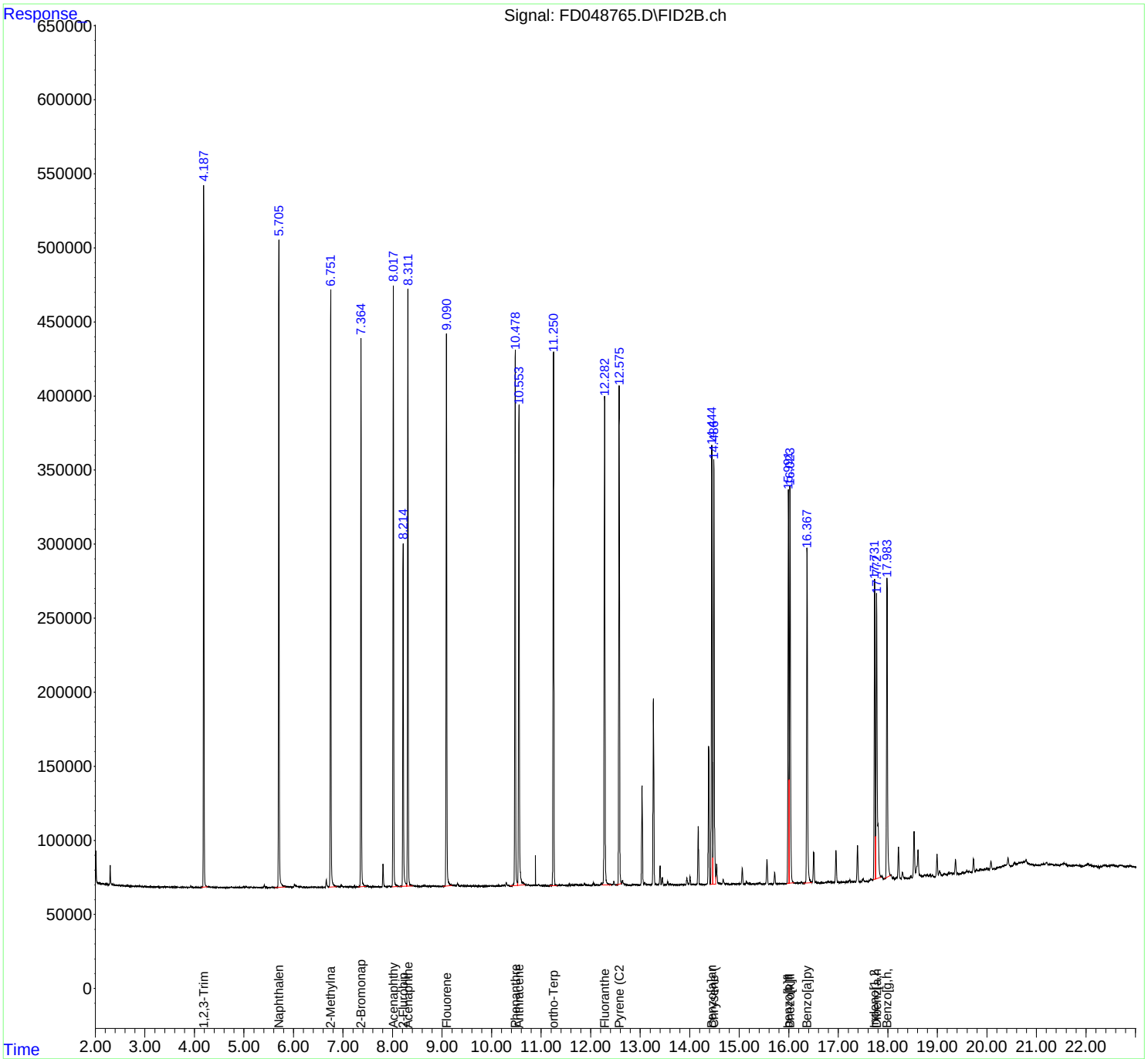
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048765.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:50
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 05:55:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048765.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:50
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.188 | 4.141 | 4.271 | BB | 471623 | 3920054 | 97.86% | 5.358% |
| 2 | 5.705 | 5.628 | 5.838 | BB | 434723 | 4005915 | 100.00% | 5.475% |
| 3 | 6.751 | 6.714 | 6.871 | PB | 402254 | 3914147 | 97.71% | 5.350% |
| 4 | 7.364 | 7.301 | 7.464 | BB | 368807 | 3556539 | 88.78% | 4.861% |
| 5 | 8.017 | 7.991 | 8.108 | BB | 404019 | 3984402 | 99.46% | 5.446% |
| 6 | 8.214 | 8.138 | 8.284 | BV | 231241 | 2354468 | 58.77% | 3.218% |
| 7 | 8.311 | 8.284 | 8.408 | VB | 403355 | 3928875 | 98.08% | 5.370% |
| 8 | 9.090 | 9.018 | 9.201 | BB | 374744 | 3907781 | 97.55% | 5.341% |
| 9 | 10.477 | 10.371 | 10.524 | BV | 362404 | 3752894 | 93.68% | 5.130% |
| 10 | 10.553 | 10.524 | 10.678 | VB | 323653 | 3667901 | 91.56% | 5.013% |
| 11 | 11.251 | 11.174 | 11.321 | BB | 361289 | 3916513 | 97.77% | 5.353% |
| 12 | 12.281 | 12.236 | 12.421 | VB | 329195 | 3762981 | 93.94% | 5.143% |
| 13 | 12.575 | 12.508 | 12.623 | BV | 334200 | 3658410 | 91.33% | 5.000% |
| 14 | 14.445 | 14.413 | 14.464 | PV | 296593 | 3379117 | 84.35% | 4.619% |
| 15 | 14.486 | 14.464 | 14.523 | VV | 286852 | 3529051 | 88.10% | 4.824% |
| 16 | 15.991 | 15.961 | 16.007 | BV | 265342 | 3161804 | 78.93% | 4.322% |
| 17 | 16.023 | 16.007 | 16.111 | VB | 266641 | 3424577 | 85.49% | 4.681% |
| 18 | 16.368 | 16.291 | 16.458 | BV | 225980 | 2978912 | 74.36% | 4.072% |
| 19 | 17.732 | 17.701 | 17.751 | BV | 202897 | 2460908 | 61.43% | 3.364% |
| 20 | 17.772 | 17.751 | 17.864 | VV | 190662 | 3185393 | 79.52% | 4.354% |
| 21 | 17.983 | 17.928 | 18.054 | BV | 199910 | 2712116 | 67.70% | 3.707% |
| | | | Sum of corrected areas: | | | 73162758 | | |

Aromatic EPH 111424.M Tue Nov 19 06:15:58 2024

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

# Continuing Calibration Report for SequenceID : FD111824AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD048777.D** | | | | | | |
| Aromatic EPH | 63794665.000 | 360.000 | 4.088 | 18.081 | 177207.403 | 173317.266 | -2.245 |
| Aromatic C10-C12 | 8114088.000 | 40.000 | 4.088 | 5.805 | 202852.200 | 192017.544 | -5.643 |
| Aromatic C12-C16 | 12005896.000 | 60.000 | 5.806 | 8.411 | 200098.267 | 192458.977 | -3.969 |
| Aromatic C16-C21 | 15169934.000 | 80.000 | 8.412 | 12.674 | 189624.175 | 185804.816 | -2.056 |
| Aromatic C21-C36 | 28504747.000 | 180.000 | 12.675 | 18.081 | 158359.706 | 157231.056 | -0.718 |

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Fax : 908 789 8922

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 19 Nov 2024 10:04 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD048777.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 8114088.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 12005896.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 15169934.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 28504747.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 63794665.000 | 360.000 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048777.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:04
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 11:00:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.363 | 3623936 | 20.584 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 41.17% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.214 | 2381527 | 20.678 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 41.36% |
| 11) S | ortho-Terphenyl (SURR) | 11.250 | 3963181 | 20.606 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 41.21% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.186 | 4019346 | 21.327 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.703 | 4094742 | 20.937 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.750 | 3995141 | 20.905 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.017 | 4040322 | 20.834 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.311 | 3970433 | 20.642 ug/ml |
| 8) T | Flouorene (C16.55) | 9.089 | 3967991 | 20.682 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.477 | 3818348 | 20.831 ug/ml |
| 10) T | Anthracene (C19.43) | 10.553 | 3672924 | 19.613 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.281 | 3810231 | 20.807 ug/ml |
| 13) T | Pyrene (C20.8) | 12.574 | 3710671 | 20.524 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.445 | 3436154 | 20.888 ug/ml |
| 15) T | Chrysene (C27.41) | 14.486 | 3608190 | 20.617 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 15.992 | 3202884 | 20.385 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.024 | 3497339 | 21.430 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.368 | 2988445 | 20.044 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.733 | 2485949 | 20.124 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.771 | 2737762 | 17.459 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.983 | 2737793 | 19.187 ug/ml |

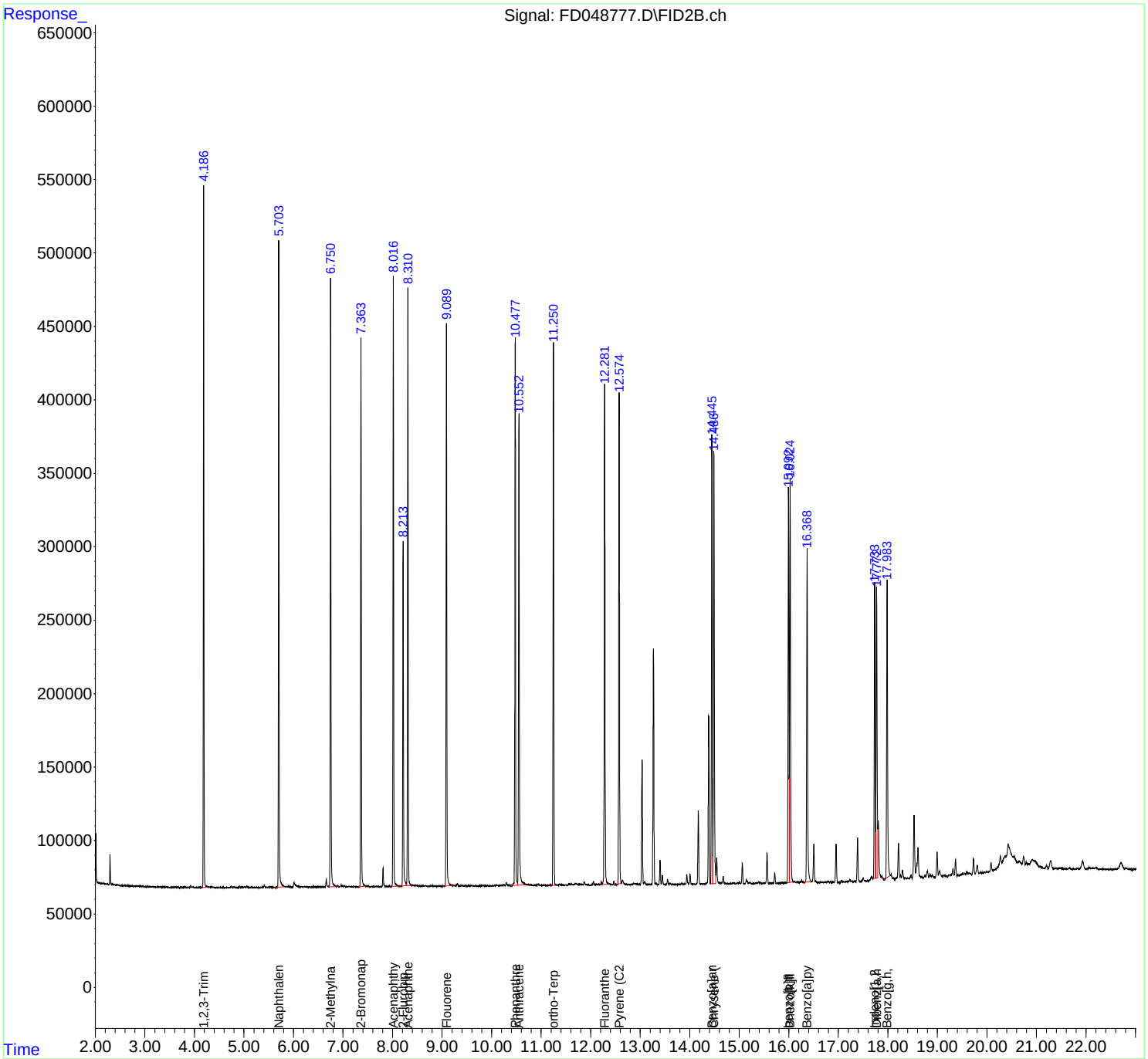
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048777.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:04
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 11:00:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048777.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:04
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.186 | 4.141 | 4.278 | BB | 474938 | 4019346 | 98.16% | 5.449% |
| 2 | 5.703 | 5.641 | 5.831 | BB | 435987 | 4094742 | 100.00% | 5.551% |
| 3 | 6.750 | 6.718 | 6.881 | PB | 415462 | 3995141 | 97.57% | 5.416% |
| 4 | 7.363 | 7.294 | 7.458 | BB | 373199 | 3623936 | 88.50% | 4.913% |
| 5 | 8.017 | 7.991 | 8.118 | BB | 414541 | 4040322 | 98.67% | 5.477% |
| 6 | 8.214 | 8.144 | 8.281 | BV | 233376 | 2381527 | 58.16% | 3.229% |
| 7 | 8.311 | 8.281 | 8.391 | VB | 407129 | 3970433 | 96.96% | 5.383% |
| 8 | 9.089 | 9.008 | 9.204 | BB | 379770 | 3967991 | 96.90% | 5.379% |
| 9 | 10.477 | 10.374 | 10.523 | BV | 373417 | 3818348 | 93.25% | 5.176% |
| 10 | 10.553 | 10.523 | 10.694 | VB | 319259 | 3672924 | 89.70% | 4.979% |
| 11 | 11.250 | 11.178 | 11.324 | BB | 369840 | 3963181 | 96.79% | 5.373% |
| 12 | 12.281 | 12.234 | 12.361 | PB | 340696 | 3810231 | 93.05% | 5.165% |
| 13 | 12.574 | 12.504 | 12.623 | BV | 335118 | 3710671 | 90.62% | 5.031% |
| 14 | 14.445 | 14.413 | 14.465 | PV | 303187 | 3436154 | 83.92% | 4.658% |
| 15 | 14.486 | 14.465 | 14.524 | VV | 295175 | 3608190 | 88.12% | 4.892% |
| 16 | 15.992 | 15.961 | 16.007 | BV | 264177 | 3202884 | 78.22% | 4.342% |
| 17 | 16.024 | 16.007 | 16.101 | VB | 275058 | 3497339 | 85.41% | 4.741% |
| 18 | 16.368 | 16.288 | 16.454 | BV | 226604 | 2988445 | 72.98% | 4.051% |
| 19 | 17.733 | 17.701 | 17.751 | BV | 201090 | 2485949 | 60.71% | 3.370% |
| 20 | 17.771 | 17.751 | 17.796 | VV | 197415 | 2737762 | 66.86% | 3.712% |
| 21 | 17.983 | 17.921 | 18.050 | BV | 203222 | 2737793 | 66.86% | 3.712% |
| | | | Sum of corrected areas: | | | 73763309 | | |

Aromatic EPH 111424.M Tue Nov 19 11:04:36 2024

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

# Continuing Calibration Report for SequenceID : FF111924AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FF015093.D** | | | | | | |
| Aromatic C10-C12 | 6013023.000 | 40.000 | 4.496 | 6.362 | 150325.575 | 136785.903 | -9.898 |
| Aromatic C12-C16 | 8810960.000 | 60.000 | 6.363 | 9.056 | 146849.333 | 135022.207 | -8.759 |
| Aromatic C16-C21 | 10961897.000 | 80.000 | 9.057 | 13.369 | 137023.713 | 127893.613 | -7.139 |
| Aromatic C21-C36 | 22610114.000 | 180.000 | 13.370 | 18.810 | 125611.744 | 121872.475 | -3.068 |
| Aromatic EPH | 48395994.000 | 360.000 | 4.496 | 18.810 | 134433.317 | 127059.175 | -5.804 |

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

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 19 Nov 2024 10:15 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FF015093.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 61 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 6013023.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 8810960.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 10961897.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 22610114.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 48395994.000 | 360.000 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015093.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:15
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 20 01:46:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) | S 2-Bromonaphthalene (S... | 7.983 | 2658209 | 21.768 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 43.54% |
| 6) | S 2-Flurobiphenyl (SURR) | 8.856 | 1756555 | 21.516 ug/ml |
| | Spiked Amount 50.000 Range 0 - 131 | | Recovery = | 43.03% |
| 11) | S ortho-Terphenyl (SURR) | 11.919 | 2928878 | 21.834 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 43.67% |
| | **Target Compounds** | | | |
| 1) | T 1,2,3-Trimethylbenzen... | 4.596 | 2988153 | 22.057 ug/ml |
| 2) | T Naphthalene (C11.7) | 6.262 | 3024870 | 21.904 ug/ml |
| 3) | T 2-Methylnaphthalene (... | 7.357 | 2928904 | 21.717 ug/ml |
| 5) | T Acenaphthylene (C15.06) | 8.657 | 2977879 | 21.807 ug/ml |
| 7) | T Acenaphthene (C15.5) | 8.956 | 2904177 | 21.730 ug/ml |
| 8) | T Flouorene (C16.55) | 9.745 | 2851998 | 21.366 ug/ml |
| 9) | T Phenanthrene (C19.36) | 11.150 | 2743609 | 21.366 ug/ml |
| 10) | T Anthracene (C19.43) | 11.225 | 2674922 | 21.205 ug/ml |
| 12) | T Fluoranthene (C21.85) | 12.970 | 2717168 | 21.729 ug/ml |
| 13) | T Pyrene (C20.8) | 13.269 | 2691368 | 21.787 ug/ml |
| 14) | T Benzo[a]anthracene (C... | 15.146 | 2471675 | 20.849 ug/ml |
| 15) | T Chrysene (C27.41) | 15.189 | 2553108 | 21.380 ug/ml |
| 16) | T benzo[b]fluoranthene ... | 16.704 | 2626797 | 21.747 ug/ml |
| 17) | T Bnezo[k]fluoranthene ... | 16.736 | 2602683 | 21.619 ug/ml |
| 18) | T Benzo[a]pyrene (C31.34) | 17.083 | 2488930 | 21.358 ug/ml |
| 19) | T Indeno[1,2,3-cd]pyren... | 18.453 | 2256057 | 19.031 ug/ml |
| 20) | T Dibenz[a,h]anthracene... | 18.492 | 2248593 | 17.590 ug/ml |
| 21) | T Benzo[g,h,i]perylene ... | 18.710 | 2645103 | 20.388 ug/ml |

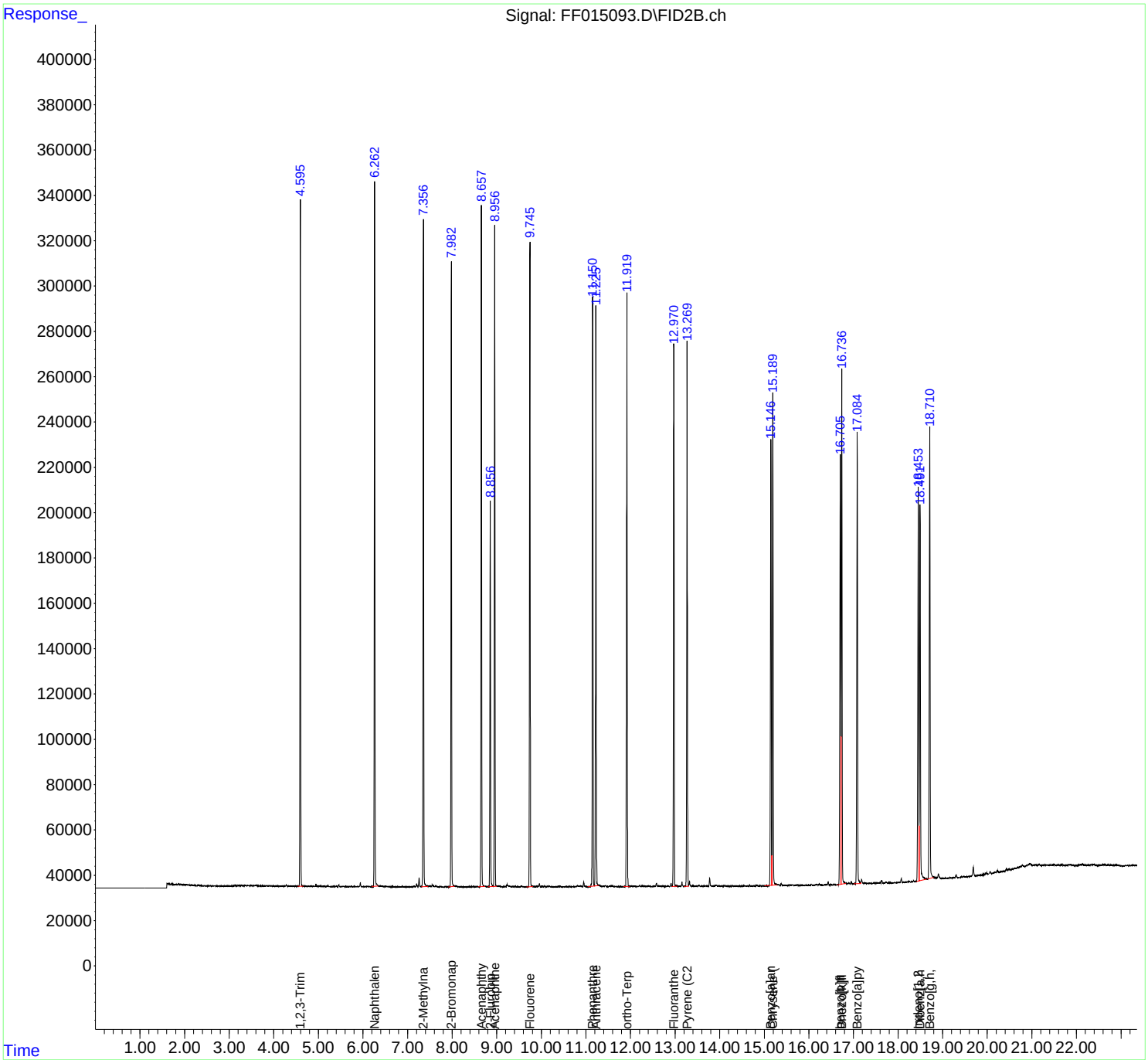
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015093.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:15
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 20 01:46:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015093.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:15
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.596 | 4.536 | 4.664 | BB | 302204 | 2988153 | 98.79% | 5.361% |
| 2 | 6.262 | 6.206 | 6.344 | BB | 310832 | 3024870 | 100.00% | 5.427% |
| 3 | 7.357 | 7.314 | 7.464 | BB | 293574 | 2928904 | 96.83% | 5.255% |
| 4 | 7.983 | 7.914 | 8.057 | BB | 275747 | 2658209 | 87.88% | 4.769% |
| 5 | 8.657 | 8.584 | 8.739 | BB | 300807 | 2977879 | 98.45% | 5.342% |
| 6 | 8.856 | 8.801 | 8.920 | BV | 170080 | 1756555 | 58.07% | 3.151% |
| 7 | 8.956 | 8.920 | 9.006 | VB | 290996 | 2904177 | 96.01% | 5.210% |
| 8 | 9.745 | 9.674 | 9.816 | BB | 282951 | 2851998 | 94.28% | 5.117% |
| 9 | 11.150 | 11.039 | 11.192 | BV | 260444 | 2743609 | 90.70% | 4.922% |
| 10 | 11.225 | 11.192 | 11.287 | VV | 254730 | 2674922 | 88.43% | 4.799% |
| 11 | 11.919 | 11.851 | 11.976 | BB | 262300 | 2928878 | 96.83% | 5.255% |
| 12 | 12.970 | 12.932 | 13.049 | VB | 239900 | 2717168 | 89.83% | 4.875% |
| 13 | 13.269 | 13.207 | 13.302 | BV | 241025 | 2691368 | 88.97% | 4.828% |
| 14 | 15.146 | 15.002 | 15.167 | BV | 196137 | 2471675 | 81.71% | 4.434% |
| 15 | 15.189 | 15.167 | 15.292 | VB | 217315 | 2553108 | 84.40% | 4.580% |
| 16 | 16.704 | 16.632 | 16.719 | BV | 189396 | 2626797 | 86.84% | 4.713% |
| 17 | 16.736 | 16.719 | 16.832 | VB | 227471 | 2602683 | 86.04% | 4.669% |
| 18 | 17.083 | 17.002 | 17.162 | BV | 200072 | 2488930 | 82.28% | 4.465% |
| 19 | 18.453 | 18.411 | 18.471 | BV | 172607 | 2256057 | 74.58% | 4.047% |
| 20 | 18.492 | 18.471 | 18.644 | VB | 164629 | 2248593 | 74.34% | 4.034% |
| 21 | 18.710 | 18.661 | 18.800 | BBA | 198844 | 2645103 | 87.45% | 4.745% |
| | | | Sum of corrected areas: | | | 55739636 | | |

Aromatic EPH 111524.M Wed Nov 20 02:21:07 2024

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# Continuing Calibration Report for SequenceID : FF111924AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FF015100.D** | | | | | | |
| Aromatic C10-C12 | 6030567.000 | 40.000 | 4.496 | 6.362 | 150764.175 | 136785.903 | -10.219 |
| Aromatic C12-C16 | 8822475.000 | 60.000 | 6.363 | 9.056 | 147041.250 | 135022.207 | -8.902 |
| Aromatic C16-C21 | 10964920.000 | 80.000 | 9.057 | 13.369 | 137061.500 | 127893.613 | -7.168 |
| Aromatic C21-C36 | 22282513.000 | 180.000 | 13.370 | 18.810 | 123791.739 | 121872.475 | -1.575 |
| Aromatic EPH | 48100475.000 | 360.000 | 4.496 | 18.810 | 133612.431 | 127059.175 | -5.158 |

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Fax : 908 789 8922

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 19 Nov 2024 14:11 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FF015100.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 61 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 6030567.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 8822475.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 10964920.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 22282513.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 48100475.000 | 360.000 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015100.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 14:11
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 20 01:48:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) | S 2-Bromonaphthalene (S... | 7.987 | 2665602 | 21.828 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 43.66% |
| 6) | S 2-Flurobiphenyl (SURR) | 8.860 | 1763336 | 21.599 ug/ml |
| | Spiked Amount 50.000 Range 0 - 131 | | Recovery = | 43.20% |
| 11) | S ortho-Terphenyl (SURR) | 11.921 | 2916286 | 21.740 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 43.48% |
| | **Target Compounds** | | | |
| 1) | T 1,2,3-Trimethylbenzen... | 4.605 | 2998947 | 22.136 ug/ml |
| 2) | T Naphthalene (C11.7) | 6.269 | 3031620 | 21.953 ug/ml |
| 3) | T 2-Methylnaphthalene (... | 7.361 | 2938672 | 21.790 ug/ml |
| 5) | T Acenaphthylene (C15.06) | 8.661 | 2976649 | 21.798 ug/ml |
| 7) | T Acenaphthene (C15.5) | 8.959 | 2907154 | 21.753 ug/ml |
| 8) | T Flouorene (C16.55) | 9.748 | 2865145 | 21.464 ug/ml |
| 9) | T Phenanthrene (C19.36) | 11.152 | 2744211 | 21.370 ug/ml |
| 10) | T Anthracene (C19.43) | 11.227 | 2677082 | 21.222 ug/ml |
| 12) | T Fluoranthene (C21.85) | 12.971 | 2694916 | 21.551 ug/ml |
| 13) | T Pyrene (C20.8) | 13.270 | 2678482 | 21.683 ug/ml |
| 14) | T Benzo[a]anthracene (C... | 15.147 | 2472687 | 20.857 ug/ml |
| 15) | T Chrysene (C27.41) | 15.190 | 2531277 | 21.197 ug/ml |
| 16) | T benzo[b]fluoranthene ... | 16.703 | 2603600 | 21.555 ug/ml |
| 17) | T Bnezo[k]fluoranthene ... | 16.736 | 2569470 | 21.343 ug/ml |
| 18) | T Benzo[a]pyrene (C31.34) | 17.083 | 2458898 | 21.100 ug/ml |
| 19) | T Indeno[1,2,3-cd]pyren... | 18.453 | 2179765 | 18.388 ug/ml |
| 20) | T Dibenz[a,h]anthracene... | 18.492 | 2215466 | 17.331 ug/ml |
| 21) | T Benzo[g,h,i]perylene ... | 18.709 | 2556434 | 19.704 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

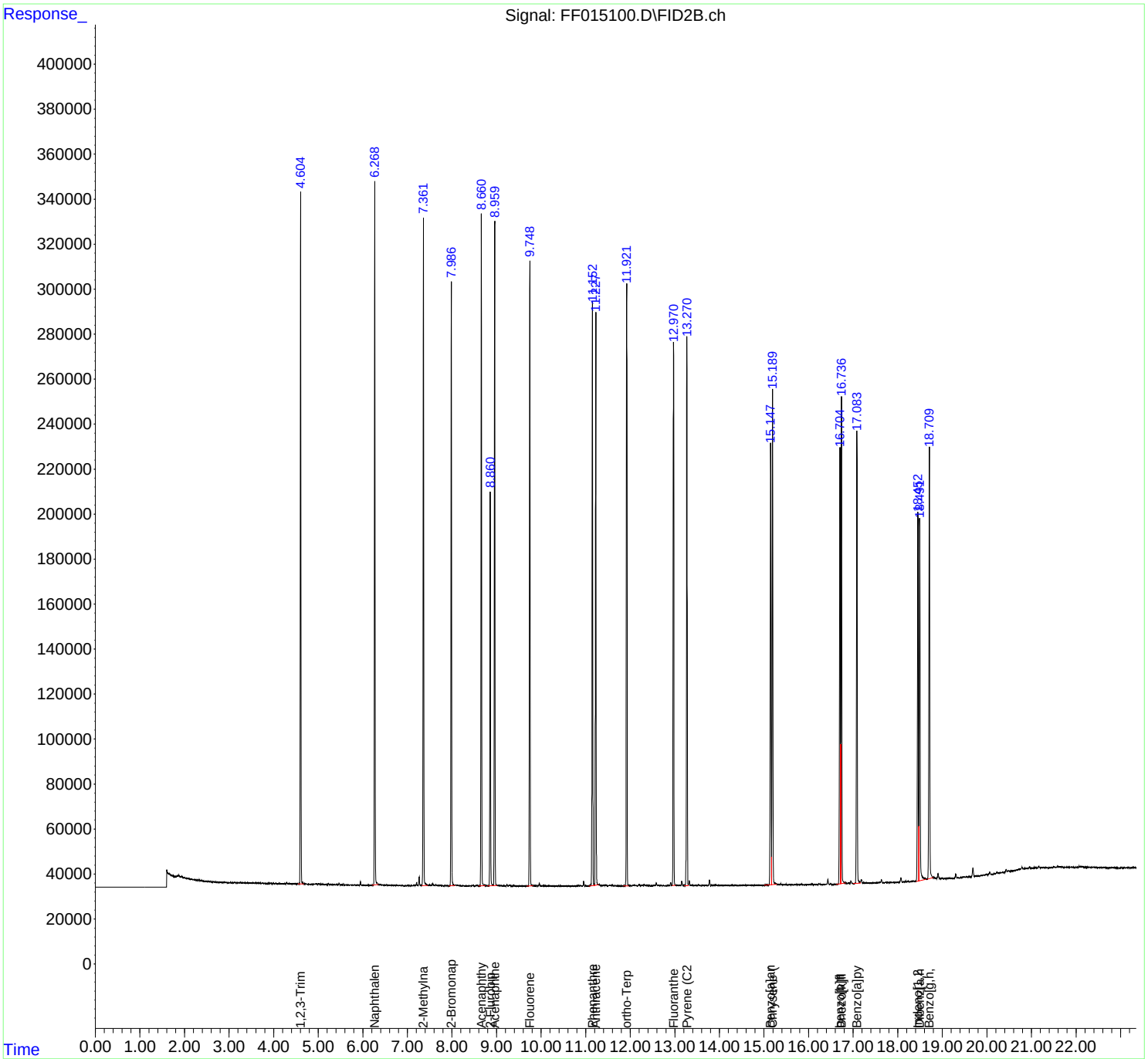
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015100.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 14:11
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 20 01:48:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015100.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 14:11
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.605 | 4.550 | 4.675 | BB | 307560 | 2998947 | 98.92% | 5.409% |
| 2 | 6.269 | 6.210 | 6.354 | BB | 312942 | 3031620 | 100.00% | 5.468% |
| 3 | 7.361 | 7.319 | 7.459 | BB | 296552 | 2938672 | 96.93% | 5.300% |
| 4 | 7.987 | 7.929 | 8.067 | BV | 269524 | 2665602 | 87.93% | 4.808% |
| 5 | 8.661 | 8.594 | 8.754 | BB | 298750 | 2976649 | 98.19% | 5.369% |
| 6 | 8.860 | 8.799 | 8.929 | BV | 175500 | 1763336 | 58.16% | 3.180% |
| 7 | 8.959 | 8.929 | 9.019 | VB | 294939 | 2907154 | 95.89% | 5.243% |
| 8 | 9.748 | 9.679 | 9.815 | BB | 277409 | 2865145 | 94.51% | 5.167% |
| 9 | 11.152 | 11.069 | 11.195 | BV | 258852 | 2744211 | 90.52% | 4.949% |
| 10 | 11.227 | 11.195 | 11.292 | VV | 254980 | 2677082 | 88.31% | 4.828% |
| 11 | 11.921 | 11.847 | 11.969 | BB | 267239 | 2916286 | 96.20% | 5.260% |
| 12 | 12.971 | 12.934 | 13.020 | PB | 241477 | 2694916 | 88.89% | 4.860% |
| 13 | 13.270 | 13.209 | 13.302 | BV | 243562 | 2678482 | 88.35% | 4.831% |
| 14 | 15.147 | 15.009 | 15.168 | BV | 196468 | 2472687 | 81.56% | 4.460% |
| 15 | 15.190 | 15.168 | 15.292 | VB | 221087 | 2531277 | 83.50% | 4.565% |
| 16 | 16.703 | 16.624 | 16.719 | BV | 194494 | 2603600 | 85.88% | 4.696% |
| 17 | 16.736 | 16.719 | 16.825 | VB | 215947 | 2569470 | 84.76% | 4.634% |
| 18 | 17.083 | 17.004 | 17.157 | BV | 201192 | 2458898 | 81.11% | 4.435% |
| 19 | 18.453 | 18.410 | 18.470 | BV | 164168 | 2179765 | 71.90% | 3.931% |
| 20 | 18.492 | 18.470 | 18.639 | VB | 160890 | 2215466 | 73.08% | 3.996% |
| 21 | 18.709 | 18.660 | 18.800 | BBA | 191766 | 2556434 | 84.33% | 4.611% |
| | | | Sum of corrected areas: | | | 55445700 | | |

Aromatic EPH 111524.M Wed Nov 20 02:24:51 2024

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# Continuing Calibration Report for SequenceID : FG111924AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FG014862.D** | | | | | | |
| Aliphatic C9-C12 | 7716226.000 | 60.000 | 3.218 | 6.839 | 128603.767 | 138200.947 | 6.944 |
| Aliphatic C12-C16 | 5227929.000 | 40.000 | 6.840 | 10.283 | 130698.225 | 140164.944 | 6.754 |
| Aliphatic C16-C21 | 7732718.000 | 60.000 | 10.284 | 13.654 | 128878.633 | 134419.042 | 4.122 |
| Aliphatic C21-C28 | 9435176.000 | 80.000 | 13.655 | 17.319 | 117939.700 | 123528.952 | 4.525 |
| Aliphatic C28-C40 | 10421500.000 | 120.000 | 17.320 | 22.248 | 86845.833 | 103690.651 | 16.245 |
| Aliphatic EPH | 40533549.000 | 360.000 | 3.218 | 22.248 | 112593.192 | 123024.976 | 8.479 |

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Fax : 908 789 8922

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 19 Nov 2024 10:15 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FG014862.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 11 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 7716226.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 5227929.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 7732718.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 9435176.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 10421500.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 40533549.000 | 360.000 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014862.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:15
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 20 00:35:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) | S ortho-Terphenyl (SURR) | 11.947 | 2814831 | 19.076 ug/ml |
| | Spiked Amount 50.000 | | Recovery = 38.15% | |
| 12) | S 1-chlorooctadecane (S... | 13.386 | 2116099 | 19.042 ug/ml |
| | Spiked Amount 50.000 | | Recovery = 38.08% | |
| | Target Compounds | | | |
| 1) | T n-Nonane (C9) | 3.318 | 2534674 | 18.669 ug/ml |
| 2) | T n-Decane (C10) | 4.569 | 2581507 | 18.616 ug/ml |
| 3) | T A~Naphthalene (C11.7) | 6.273 | 2744923 | 18.502 ug/ml |
| 4) | T n-Dodecane (C12) | 6.739 | 2600045 | 18.551 ug/ml |
| 5) | T A~2-methylnaphthalene... | 7.371 | 2634039 | 18.453 ug/ml |
| 6) | T n-Tetradecane (C14) | 8.572 | 2575912 | 18.580 ug/ml |
| 7) | T n-Hexadecane (C16) | 10.183 | 2652017 | 18.717 ug/ml |
| 8) | T n-Octadecane (C18) | 11.629 | 2675111 | 19.006 ug/ml |
| 10) | T n-Eicosane (C20) | 12.942 | 2554173 | 19.250 ug/ml |
| 11) | T n-Heneicosane (C21) | 13.554 | 2503434 | 19.284 ug/ml |
| 13) | T n-Docosane (C22) | 14.142 | 2470343 | 19.375 ug/ml |
| 14) | T n-Tetracosane (C24) | 15.246 | 2422441 | 19.384 ug/ml |
| 15) | T n-Hexacosane (C26) | 16.269 | 2326143 | 19.119 ug/ml |
| 16) | T n-Octacosane (C28) | 17.219 | 2216249 | 18.473 ug/ml |
| 17) | T n-Tricontane (C30) | 18.107 | 2188243 | 17.451 ug/ml |
| 18) | T n-Dotriacontane (C32) | 18.939 | 2066996 | 16.596 ug/ml |
| 19) | T n-Tetratriacontane (C34) | 19.724 | 1787778 | 16.550 ug/ml |
| 20) | T n-Hexatriacontane (C36) | 20.465 | 1537026 | 16.603 ug/ml |
| 21) | T n-Octatriacontane (C38) | 21.211 | 1451561 | 16.568 ug/ml |
| 22) | T n-Tetracontane (C40) | 22.148 | 1389896 | 16.548 ug/ml |

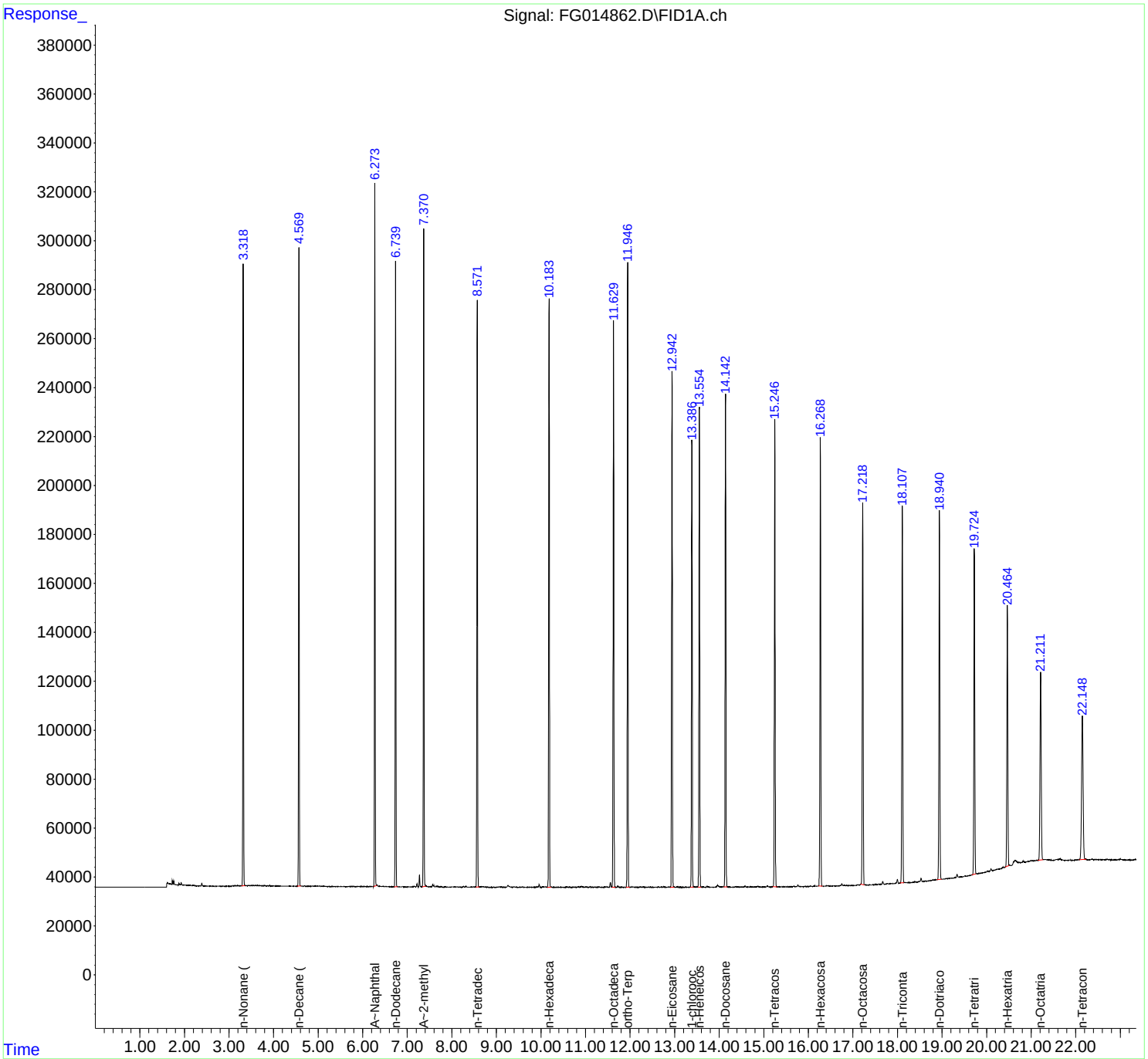
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014862.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:15
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 20 00:35:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014862.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:15
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.318 | 3.280 | 3.363 | BB | 254196 | 2534674 | 90.05% | 4.985% |
| 2 | 4.569 | 4.530 | 4.612 | BB | 260558 | 2581507 | 91.71% | 5.077% |
| 3 | 6.273 | 6.244 | 6.315 | BB | 287144 | 2744923 | 97.52% | 5.399% |
| 4 | 6.739 | 6.706 | 6.779 | BB | 255579 | 2600045 | 92.37% | 5.114% |
| 5 | 7.371 | 7.333 | 7.421 | BB | 268879 | 2634039 | 93.58% | 5.181% |
| 6 | 8.572 | 8.538 | 8.612 | BB | 239743 | 2575912 | 91.51% | 5.066% |
| 7 | 10.183 | 10.143 | 10.228 | BB | 240235 | 2652017 | 94.22% | 5.216% |
| 8 | 11.629 | 11.591 | 11.670 | BB | 231642 | 2675111 | 95.04% | 5.261% |
| 9 | 11.947 | 11.912 | 11.989 | BB | 255331 | 2814831 | 100.00% | 5.536% |
| 10 | 12.942 | 12.904 | 12.990 | BB | 210612 | 2554173 | 90.74% | 5.024% |
| 11 | 13.386 | 13.353 | 13.427 | BB | 182658 | 2116099 | 75.18% | 4.162% |
| 12 | 13.554 | 13.520 | 13.596 | BB | 196125 | 2503434 | 88.94% | 4.924% |
| 13 | 14.142 | 14.097 | 14.182 | BB | 201083 | 2470343 | 87.76% | 4.859% |
| 14 | 15.246 | 15.200 | 15.299 | BB | 190967 | 2422441 | 86.06% | 4.765% |
| 15 | 16.269 | 16.225 | 16.316 | BB | 183388 | 2326143 | 82.64% | 4.575% |
| 16 | 17.219 | 17.170 | 17.258 | BB | 156002 | 2216249 | 78.73% | 4.359% |
| 17 | 18.107 | 18.054 | 18.148 | BB | 153888 | 2188243 | 77.74% | 4.304% |
| 18 | 18.940 | 18.885 | 18.991 | BB | 150767 | 2066996 | 73.43% | 4.065% |
| 19 | 19.724 | 19.668 | 19.761 | BB | 133194 | 1787778 | 63.51% | 3.516% |
| 20 | 20.465 | 20.412 | 20.505 | BB | 106672 | 1537026 | 54.60% | 3.023% |
| 21 | 21.211 | 21.153 | 21.265 | BB | 76869 | 1451561 | 51.57% | 2.855% |
| 22 | 22.148 | 22.076 | 22.236 | BB | 58737 | 1389896 | 49.38% | 2.734% |
| | | | Sum of corrected areas: | | | 50843441 | | |

Aliphatic EPH 111424.M Wed Nov 20 01:12:21 2024

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

# Continuing Calibration Report for SequenceID : FG111924AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FG014871.D** | | | | | | |
| Aliphatic C9-C12 | 7754881.000 | 60.000 | 3.218 | 6.839 | 129248.017 | 138200.947 | 6.478 |
| Aliphatic C12-C16 | 5244895.000 | 40.000 | 6.840 | 10.283 | 131122.375 | 140164.944 | 6.451 |
| Aliphatic C16-C21 | 7664939.000 | 60.000 | 10.284 | 13.654 | 127748.983 | 134419.042 | 4.962 |
| Aliphatic C21-C28 | 9297761.000 | 80.000 | 13.655 | 17.319 | 116222.013 | 123528.952 | 5.915 |
| Aliphatic C28-C40 | 10532125.000 | 120.000 | 17.320 | 22.248 | 87767.708 | 103690.651 | 15.356 |
| Aliphatic EPH | 40494601.000 | 360.000 | 3.218 | 22.248 | 112485.003 | 123024.976 | 8.567 |

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Fax : 908 789 8922

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 19 Nov 2024 14:40 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FG014871.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 11 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 7754881.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 5244895.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 7664939.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 9297761.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 10532125.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 40494601.000 | 360.000 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014871.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 14:40
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 20 00:36:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.945 | 2796616 | 18.952 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 37.90% |
| 12) S | 1-chlorooctadecane (S... | 13.385 | 2104260 | 18.935 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 37.87% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.318 | 2547677 | 18.764 ug/ml |
| 2) T | n-Decane (C10) | 4.568 | 2593093 | 18.699 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 6.271 | 2753922 | 18.563 ug/ml |
| 4) T | n-Dodecane (C12) | 6.738 | 2614111 | 18.651 ug/ml |
| 5) T | A~2-methylnaphthalene... | 7.369 | 2643885 | 18.522 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.570 | 2589513 | 18.678 ug/ml |
| 7) T | n-Hexadecane (C16) | 10.181 | 2655382 | 18.741 ug/ml |
| 8) T | n-Octadecane (C18) | 11.628 | 2662903 | 18.919 ug/ml |
| 10) T | n-Eicosane (C20) | 12.940 | 2528928 | 19.060 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.553 | 2473108 | 19.050 ug/ml |
| 13) T | n-Docosane (C22) | 14.139 | 2439359 | 19.132 ug/ml |
| 14) T | n-Tetracosane (C24) | 15.244 | 2380973 | 19.052 ug/ml |
| 15) T | n-Hexacosane (C26) | 16.266 | 2287936 | 18.805 ug/ml |
| 16) T | n-Octacosane (C28) | 17.217 | 2189493 | 18.250 ug/ml |
| 17) T | n-Tricontane (C30) | 18.103 | 2174495 | 17.341 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.938 | 2064684 | 16.577 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.720 | 1800493 | 16.668 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.460 | 1564694 | 16.902 ug/ml |
| 21) T | n-Octatriacontane (C38) | 21.208 | 1481489 | 16.910 ug/ml |
| 22) T | n-Tetracontane (C40) | 22.143 | 1446270 | 17.219 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

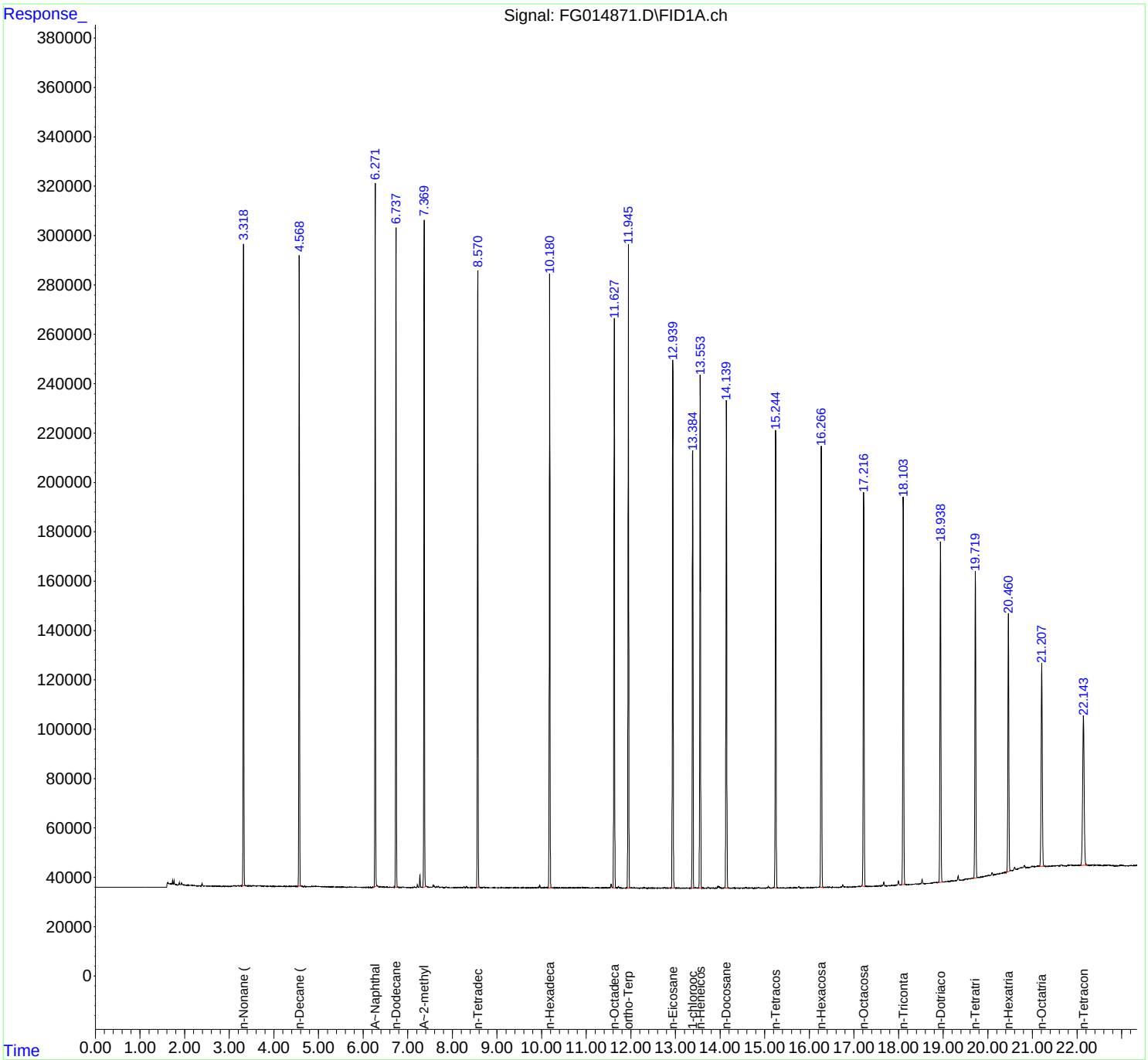
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014871.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 14:40
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 20 00:36:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014871.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 14:40
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.318 | 3.280 | 3.353 | BB | 260073 | 2547677 | 91.10% | 5.016% |
| 2 | 4.568 | 4.539 | 4.612 | BB | 255628 | 2593093 | 92.72% | 5.105% |
| 3 | 6.271 | 6.235 | 6.313 | BB | 284921 | 2753922 | 98.47% | 5.422% |
| 4 | 6.738 | 6.707 | 6.782 | BB | 266701 | 2614111 | 93.47% | 5.147% |
| 5 | 7.369 | 7.330 | 7.420 | BB | 270105 | 2643885 | 94.54% | 5.205% |
| 6 | 8.570 | 8.536 | 8.610 | BB | 250301 | 2589513 | 92.59% | 5.098% |
| 7 | 10.181 | 10.140 | 10.220 | BB | 248625 | 2655382 | 94.95% | 5.228% |
| 8 | 11.628 | 11.590 | 11.664 | BB | 230498 | 2662903 | 95.22% | 5.243% |
| 9 | 11.945 | 11.909 | 11.989 | BB | 260342 | 2796616 | 100.00% | 5.506% |
| 10 | 12.940 | 12.898 | 12.978 | BB | 213724 | 2528928 | 90.43% | 4.979% |
| 11 | 13.385 | 13.347 | 13.416 | BB | 176991 | 2104260 | 75.24% | 4.143% |
| 12 | 13.553 | 13.515 | 13.598 | BB | 207790 | 2473108 | 88.43% | 4.869% |
| 13 | 14.139 | 14.103 | 14.190 | BB | 197483 | 2439359 | 87.23% | 4.803% |
| 14 | 15.244 | 15.208 | 15.283 | BB | 185443 | 2380973 | 85.14% | 4.688% |
| 15 | 16.266 | 16.227 | 16.316 | BB | 178912 | 2287936 | 81.81% | 4.504% |
| 16 | 17.217 | 17.167 | 17.254 | BB | 159236 | 2189493 | 78.29% | 4.311% |
| 17 | 18.103 | 18.053 | 18.152 | BB | 157070 | 2174495 | 77.75% | 4.281% |
| 18 | 18.938 | 18.884 | 18.993 | BB | 137917 | 2064684 | 73.83% | 4.065% |
| 19 | 19.720 | 19.671 | 19.760 | BB | 124258 | 1800493 | 64.38% | 3.545% |
| 20 | 20.460 | 20.407 | 20.506 | BB | 104551 | 1564694 | 55.95% | 3.081% |
| 21 | 21.208 | 21.144 | 21.265 | BB | 82307 | 1481489 | 52.97% | 2.917% |
| 22 | 22.143 | 22.064 | 22.235 | BB | 60714 | 1446270 | 51.72% | 2.847% |
| | | | Sum of corrected areas: | | | 50793282 | | |

Aliphatic EPH 111424.M Wed Nov 20 01:16:32 2024

# QC SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165032BL | SDG No.: | P4860 |
| Lab Sample ID: | PB165032BL | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/18/24 15:27 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.38 | U | 1 | 0.38 | 1.00 | mg/kg | FC067807.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.24 | U | 1 | 0.24 | 0.67 | mg/kg | FC067807.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.30 | U | 1 | 0.30 | 1.00 | mg/kg | FC067807.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.80 | U | 1 | 0.80 | 1.33 | mg/kg | FC067807.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.80 | U | 1 | 1.80 | 2.00 | mg/kg | FC067807.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.30 | U | 1 | 0.30 | 0.67 | mg/kg | FD048766.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.34 | U | 1 | 0.34 | 1.00 | mg/kg | FD048766.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.96 | U | 1 | 0.96 | 1.67 | mg/kg | FD048766.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.00 | U | 1 | 2.00 | 2.67 | mg/kg | FD048766.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.52 | U | | 3.52 | 6.00 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.60 | U | | 3.60 | 6.01 | mg/kg | |
| Total EPH | Total EPH | 7.12 | U | | 7.12 | 12.0 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | PB165032BL | | SDG No.: | P4860 | |
| Lab Sample ID: | PB165032BL | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 100 | |
| Sample Wt/Vol: | 30.01 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067807.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.38 | U | 0.38 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.24 | U | 0.24 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.30 | U | 0.30 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.80 | U | 0.80 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 1.80 | U | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 37.7 | | 40 - 140 | 75% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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

# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BL | Acq On: | 18 Nov 2024 15:27 |
| Client Sample ID: | PB165032BL | Operator: | YP/AJ |
| Data file: | FC067807.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 17 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 0 | 0 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 0 | 0 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 0 | 0 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 0 | 0 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.930 | 12.930 | 5471332 | 37.69 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 0 | 0 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067807.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 04:55:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 12.930 | 5471332 | 37.691 ug/ml |
| Spiked Amount 50.000 | | Recovery = 75.38% | |
| Target Compounds | | | |

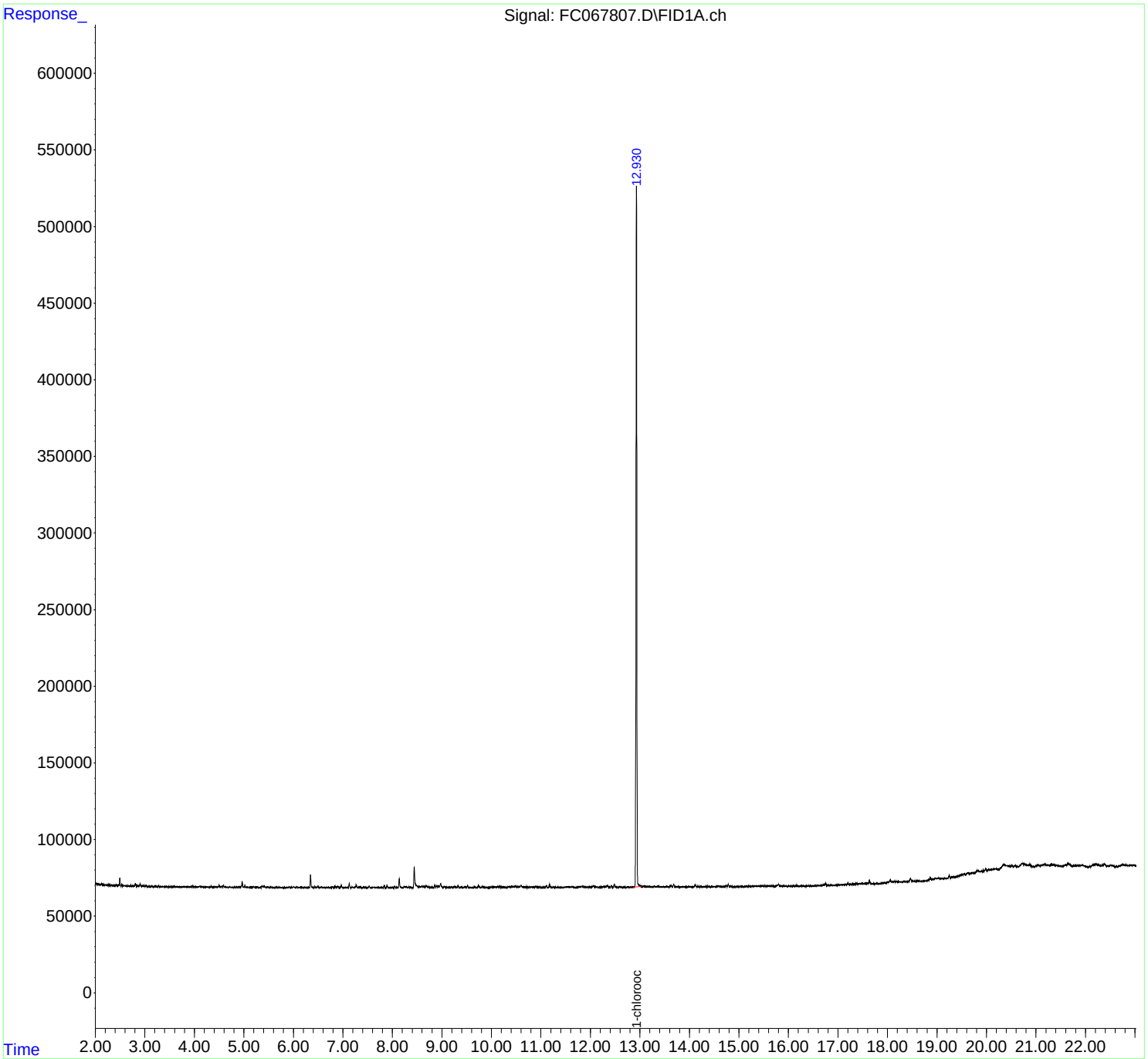
(f)=RT Delta > 1/2 Window (m)=manual int.

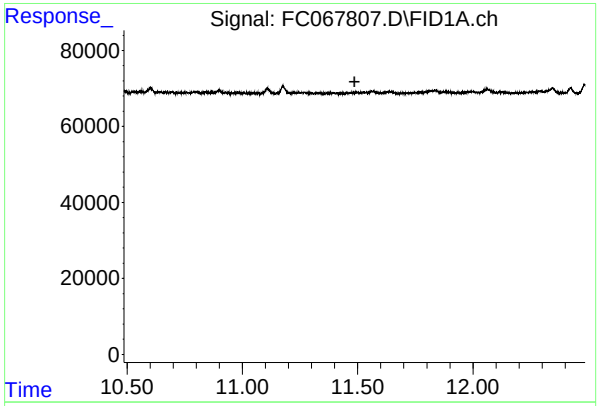
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067807.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 04:55:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

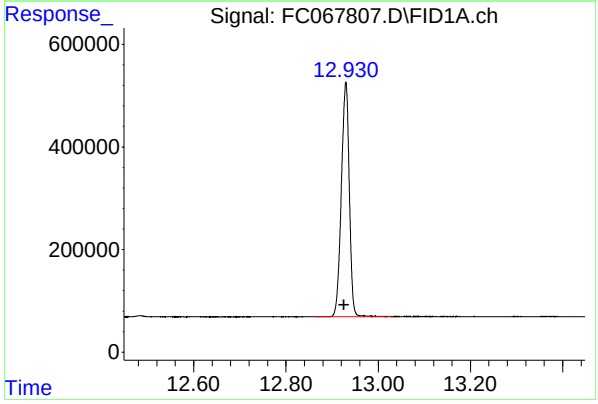





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BL




#12 1-chlorooctadecane (SURR)

R.T.: 12.930 min
Delta R.T.: 0.004 min
Response: 5471332
Conc: 37.69 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067807.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:27
Sample : PB165032BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 12.930 | 12.865 | 13.032 | BB | 459778 | 5471332 | 100.00% | 100.000% |

Sum of corrected areas: 5471332

Aliphatic EPH 111424.M Tue Nov 19 05:23:19 2024

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | PB165032BL | | SDG No.: | P4860 | |
| Lab Sample ID: | PB165032BL | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 100 | |
| Sample Wt/Vol: | 30.01 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048766.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.30 | U | 0.30 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.34 | U | 0.34 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.96 | U | 0.96 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.00 | U | 2.00 | 2.67 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 52.1 | | 40 - 140 | 104% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 51.2 | | 40 - 140 | 102% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 47.9 | | 40 - 140 | 96% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BL | Acq On: | 18 Nov 2024 15:27 |
| Client Sample ID: | PB165032BL | Operator: | YP/AJ |
| Data file: | FD048766.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 67 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 0 | 0 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 0 | 0 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 0 | 0 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 0 | 0 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 0 | 0 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.367 | 7.367 | 9167743 | 52.07 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.216 | 8.216 | 5897989 | 51.21 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.255 | 11.255 | 9202508 | 47.85 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048766.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 67 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 05:55:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 4) S 2-Bromonaphthalene (S... | 7.367 | 9167743 | 52.072 ug/ml |
| Spiked Amount 50.000 | | Recovery = 104.14% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.216 | 5897989 | 51.211 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 102.42% | |
| 11) S ortho-Terphenyl (SURR) | 11.255 | 9202508 | 47.846 ug/ml |
| Spiked Amount 50.000 | | Recovery = 95.69% | |
| Target Compounds | | | |

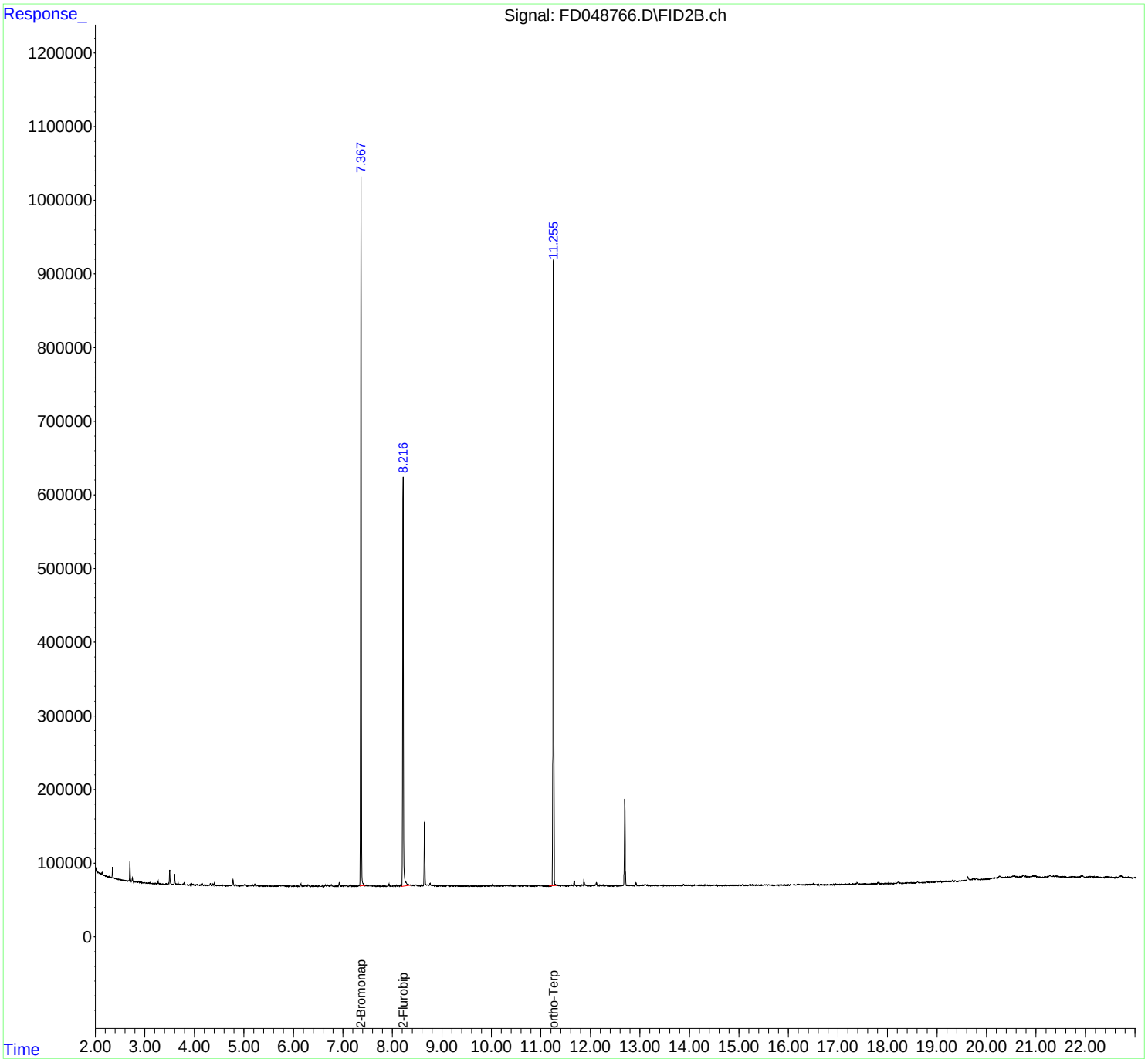
(f)=RT Delta > 1/2 Window (m)=manual int.

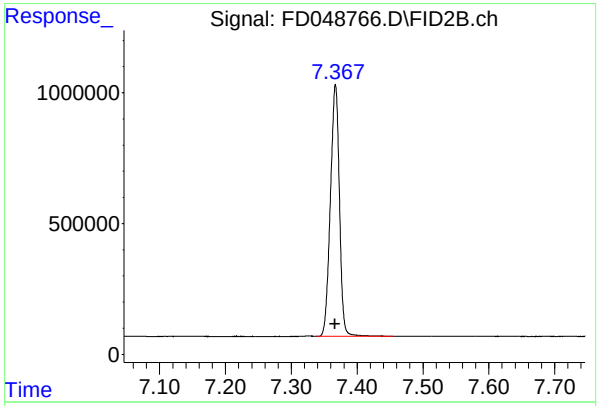
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048766.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 67 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 05:55:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

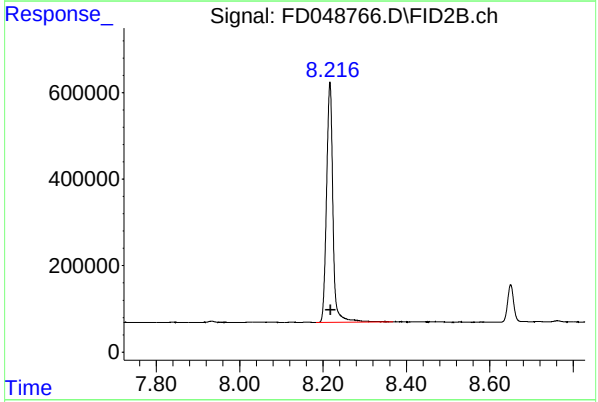





#4 2-Bromonaphthalene (SURR)

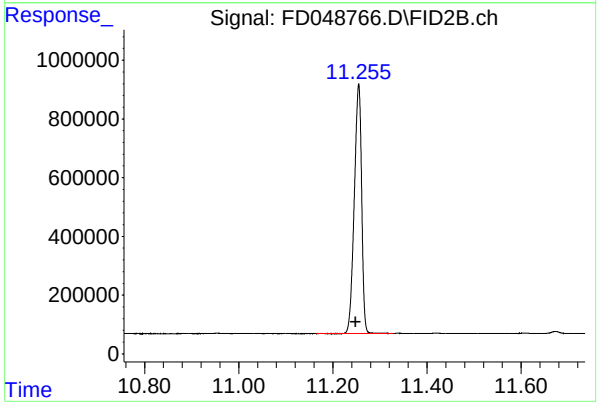
R.T.: 7.367 min
Delta R.T.: 0.000 min
Response: 9167743
Conc: 52.07 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BL




#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.002 min
Response: 5897989
Conc: 51.21 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: 0.006 min
Response: 9202508
Conc: 47.85 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048766.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:27
Sample : PB165032BL
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 7.367 | 7.338 | 7.454 | VB | 966257 | 9167743 | 99.62% | 37.777% |
| 2 | 8.216 | 8.183 | 8.368 | PB | 559678 | 5897989 | 64.09% | 24.303% |
| 3 | 11.255 | 11.164 | 11.328 | BV | 849454 | 9202508 | 100.00% | 37.920% |
| | | | Sum of corrected areas: | | | 24268241 | | |

Aromatic EPH 111424.M Tue Nov 19 06:16:19 2024

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | PB165032BS | | SDG No.: | P4860 | |
| Lab Sample ID: | PB165032BS | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 100 | |
| Sample Wt/Vol: | 30.02 Units: | g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/18/24 16:03 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.39 | | 1 | 0.38 | 1.00 | mg/kg | FC067808.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.31 | | 1 | 0.24 | 0.67 | mg/kg | FC067808.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.07 | | 1 | 0.30 | 1.00 | mg/kg | FC067808.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.4 | | 1 | 0.80 | 1.33 | mg/kg | FC067808.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 17.7 | | 1 | 1.80 | 2.00 | mg/kg | FC067808.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 5.16 | | 1 | 0.30 | 0.67 | mg/kg | FD048767.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 9.14 | | 1 | 0.34 | 1.00 | mg/kg | FD048767.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 16.7 | | 1 | 0.96 | 1.67 | mg/kg | FD048767.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 26.3 | | 1 | 2.00 | 2.66 | mg/kg | FD048767.D |
| Total AliphaticEPH | Total AliphaticEPH | 47.9 | | | 3.52 | 5.99 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 57.3 | | | 3.60 | 6.00 | mg/kg | |
| Total EPH | Total EPH | 105 | | | 7.12 | 12.0 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | PB165032BS | | SDG No.: | P4860 | |
| Lab Sample ID: | PB165032BS | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 100 | |
| Sample Wt/Vol: | 30.02 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067808.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.39 | | 0.38 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.31 | | 0.24 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.07 | | 0.30 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.4 | | 0.80 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 17.7 | | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 32.6 | | 40 - 140 | 65% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BS | Acq On: | 18 Nov 2024 16:03 |
| Client Sample ID: | PB165032BS | Operator: | YP/AJ |
| Data file: | FC067808.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 18 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 15894235 | 95.869 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 13573417 | 79.663 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 20548561 | 121.144 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 24590035 | 156.346 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 32108741 | 265.118 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 106714989 | 718.139 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.930 | 12.930 | 4728305 | 32.57 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 74606248 | 453.022 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067808.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 12) S | 1-chlorooctadecane (S... | 12.930 | 4728305 | 32.573 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 65.15% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.275 | 4201336 | 25.757 ug/ml |
| 2) T | n-Decane (C10) | 4.336 | 5318827 | 32.074 ug/ml |
| 4) T | n-Dodecane (C12) | 6.350 | 6374072 | 37.845 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.143 | 6743982 | 40.269 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.741 | 6829435 | 39.409 ug/ml |
| 8) T | n-Octadecane (C18) | 11.181 | 6973343 | 39.635 ug/ml |
| 10) T | n-Eicosane (C20) | 12.489 | 6948691 | 41.266 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.099 | 6626527 | 40.273 ug/ml |
| 13) T | n-Docosane (C22) | 13.684 | 6516169 | 40.013 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.786 | 6265085 | 39.064 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.804 | 6001566 | 38.754 ug/ml |
| 16) T | n-Octacosane (C28) | 16.752 | 5807215 | 38.452 ug/ml |
| 17) T | n-Tricontane (C30) | 17.640 | 5683424 | 37.120 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.471 | 5539429 | 37.507 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.252 | 5319803 | 42.177 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.990 | 5069997 | 48.476 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.712 | 5099821 | 52.207 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.596 | 5079880 | 52.119 ug/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067808.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

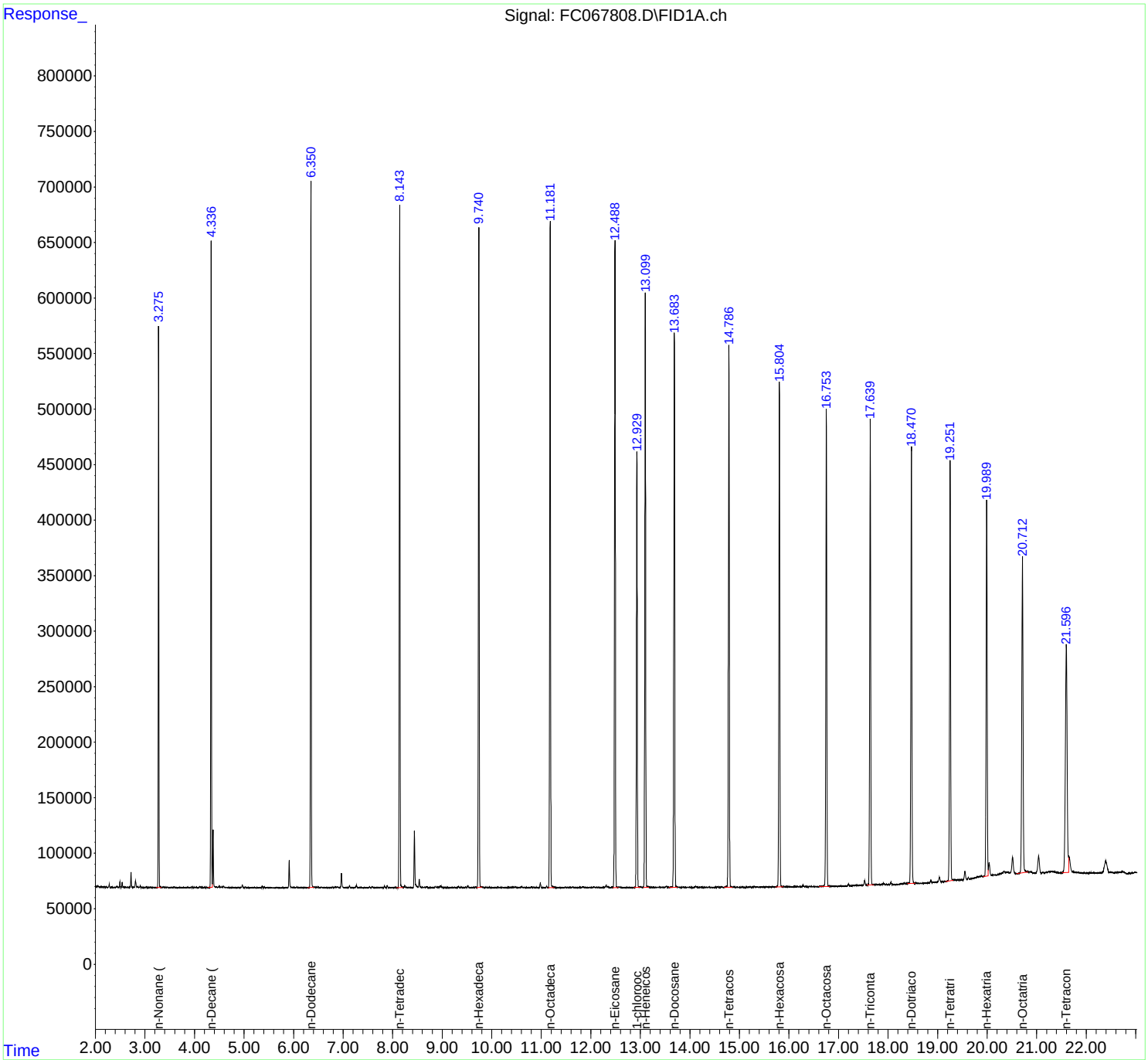
**Instrument :**
FID_C
**ClientSampleId :**
PB165032BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



**Instrument :**
FID_C
**ClientSampleId :**
PB165032BS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11182
Data File : FC067808.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:03
Sample : PB165032BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.275 | 3.222 | 3.335 | BB | 506407 | 4201336 | 60.25% | 3.770% |
| 2 | 4.336 | 4.273 | 4.359 | BV | 583096 | 5318827 | 76.27% | 4.773% |
| 3 | 6.350 | 6.283 | 6.412 | BV | 635505 | 6374072 | 91.41% | 5.720% |
| 4 | 8.143 | 8.083 | 8.208 | BB | 611882 | 6743982 | 96.71% | 6.051% |
| 5 | 9.741 | 9.690 | 9.802 | BB | 594045 | 6829435 | 97.94% | 6.128% |
| 6 | 11.181 | 11.137 | 11.262 | BB | 599999 | 6973343 | 100.00% | 6.257% |
| 7 | 12.489 | 12.447 | 12.557 | PB | 583904 | 6948691 | 99.65% | 6.235% |
| 8 | 12.930 | 12.867 | 12.990 | BB | 391881 | 4728305 | 67.81% | 4.243% |
| 9 | 13.099 | 13.058 | 13.173 | BB | 532866 | 6626527 | 95.03% | 5.946% |
| 10 | 13.684 | 13.575 | 13.752 | BB | 498791 | 6516169 | 93.44% | 5.847% |
| 11 | 14.786 | 14.697 | 14.857 | BB | 488980 | 6265085 | 89.84% | 5.622% |
| 12 | 15.804 | 15.727 | 15.878 | BB | 452909 | 6001566 | 86.06% | 5.385% |
| 13 | 16.752 | 16.603 | 16.828 | BB | 429238 | 5807215 | 83.28% | 5.211% |
| 14 | 17.640 | 17.572 | 17.713 | BB | 420967 | 5683424 | 81.50% | 5.100% |
| 15 | 18.471 | 18.390 | 18.550 | BB | 393599 | 5539429 | 79.44% | 4.971% |
| 16 | 19.252 | 19.158 | 19.313 | BV | 376107 | 5319803 | 76.29% | 4.774% |
| 17 | 19.990 | 19.927 | 20.022 | BV | 334276 | 5069997 | 72.71% | 4.549% |
| 18 | 20.712 | 20.597 | 20.830 | BB | 283632 | 5099821 | 73.13% | 4.576% |
| 19 | 21.598 | 21.447 | 21.792 | BB | 204461 | 5396267 | 77.38% | 4.842% |
| | | | Sum of corrected areas: | | | 111443294 | | |

Aliphatic EPH 111424.M Tue Nov 19 05:23:55 2024

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | PB165032BS | | SDG No.: | P4860 | |
| Lab Sample ID: | PB165032BS | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 100 | |
| Sample Wt/Vol: | 30.02 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048767.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 5.16 | | 0.30 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 9.14 | | 0.34 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 16.7 | | 0.96 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 26.3 | | 2.00 | 2.66 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 46.1 | | 40 - 140 | 92% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 41.8 | | 40 - 140 | 84% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 39.3 | | 40 - 140 | 79% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BS | Acq On: | 18 Nov 2024 16:03 |
| Client Sample ID: | PB165032BS | Operator: | YP/AJ |
| Data file: | FD048767.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 68 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 14872614 | 77.454 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 26402895 | 137.187 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 46569863 | 250.639 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 62025703 | 394.488 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 149871075 | 859.768 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.367 | 7.367 | 8116373 | 46.1 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.217 | 8.217 | 4810184 | 41.77 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.254 | 11.254 | 7565444 | 39.33 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048767.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 68 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.367 | 8116373 | 46.100 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 92.20% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.217 | 4810184 | 41.766 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 83.53% |
| 11) S | ortho-Terphenyl (SURR) | 11.254 | 7565444 | 39.335 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 78.67% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.191 | 6776592 | 35.957 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.707 | 8096022 | 41.396 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.754 | 7937438 | 41.534 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.021 | 9048934 | 46.662 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.317 | 9416523 | 48.956 ug/ml |
| 8) T | Flouorene (C16.55) | 9.095 | 9287223 | 48.408 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.483 | 9151486 | 49.925 ug/ml |
| 10) T | Anthracene (C19.43) | 10.560 | 9193681 | 49.093 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.289 | 9152055 | 49.978 ug/mlm |
| 13) T | Pyrene (C20.8) | 12.583 | 8960843 | 49.564 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.453 | 8425160 | 51.216 ug/ml |
| 15) T | Chrysene (C27.41) | 14.496 | 8326129 | 47.574 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.001 | 8027372 | 51.091 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.036 | 7963511 | 48.797 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.377 | 7583422 | 50.862 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.744 | 7431556 | 60.160 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.781 | 7116213 | 45.380 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.996 | 7152340 | 50.126 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048767.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 68 Sample Multiplier: 1

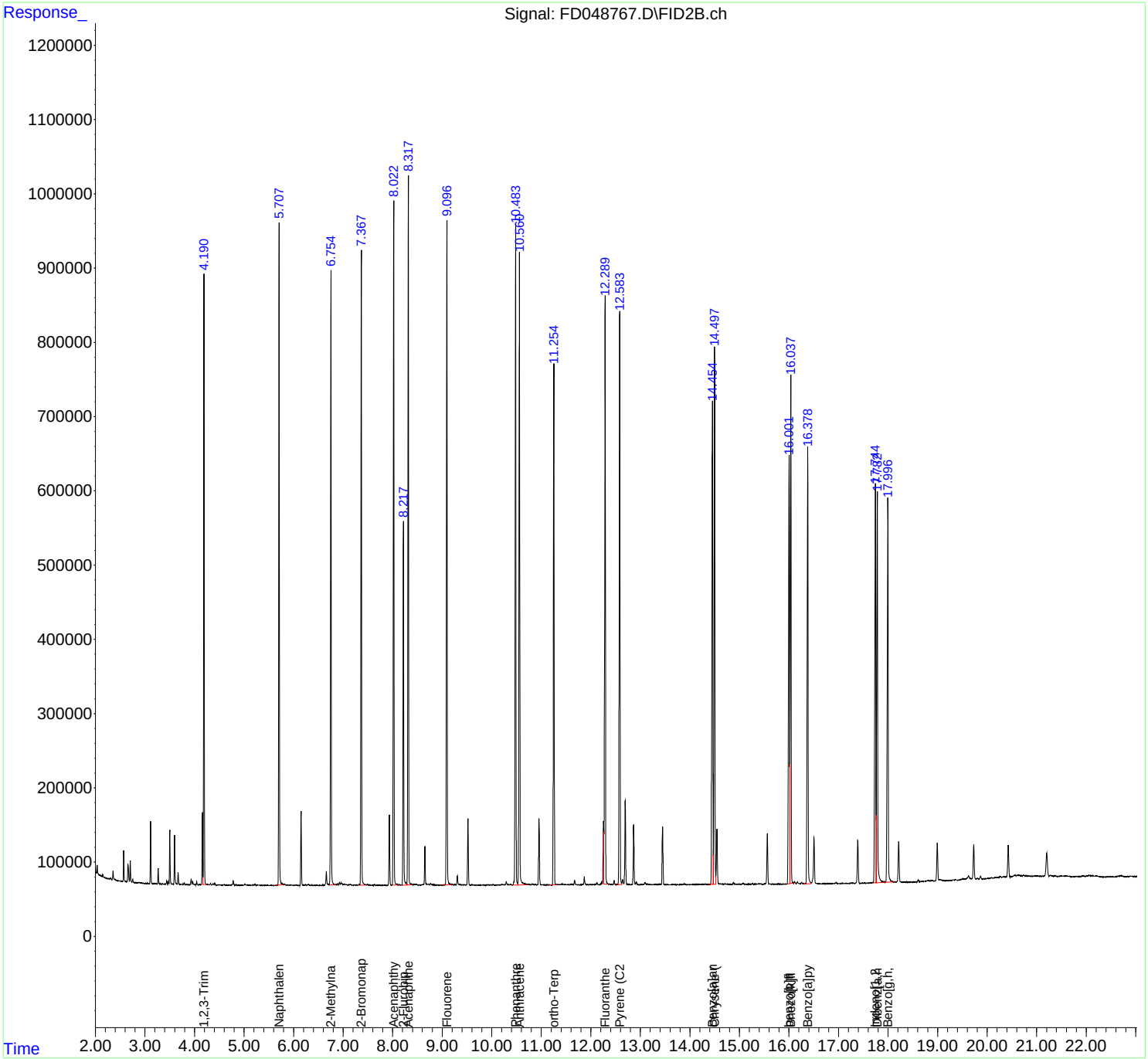
**Instrument :**
FID_D
**ClientSampleId :**
PB165032BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



**Instrument :**
FID_D
**ClientSampleId :**
PB165032BS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048767.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:03
Sample : PB165032BS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.191 | 4.172 | 4.258 | VV | 821858 | 6776592 | 67.92% | 3.978% |
| 2 | 5.707 | 5.638 | 5.798 | BV | 893368 | 8096022 | 81.15% | 4.752% |
| 3 | 6.754 | 6.721 | 6.858 | VB | 827460 | 7937438 | 79.56% | 4.659% |
| 4 | 7.367 | 7.338 | 7.458 | VB | 857947 | 8116373 | 81.35% | 4.764% |
| 5 | 8.021 | 7.991 | 8.111 | BB | 917429 | 9048934 | 90.70% | 5.312% |
| 6 | 8.217 | 8.184 | 8.288 | PV | 489784 | 4810184 | 48.21% | 2.823% |
| 7 | 8.317 | 8.288 | 8.404 | VB | 961795 | 9416523 | 94.39% | 5.527% |
| 8 | 9.095 | 8.974 | 9.201 | BB | 876354 | 9287223 | 93.09% | 5.451% |
| 9 | 10.483 | 10.418 | 10.528 | BV | 900664 | 9151486 | 91.73% | 5.372% |
| 10 | 10.560 | 10.528 | 10.728 | VB | 864022 | 9193681 | 92.15% | 5.397% |
| 11 | 11.254 | 11.168 | 11.324 | BV | 702134 | 7565444 | 75.83% | 4.441% |
| 12 | 12.289 | 12.230 | 12.384 | VB | 783198 | 9976630 | 100.00% | 5.856% |
| 13 | 12.583 | 12.514 | 12.622 | BV | 758395 | 8960843 | 89.82% | 5.260% |
| 14 | 14.453 | 14.374 | 14.472 | BV | 658669 | 8425160 | 84.45% | 4.945% |
| 15 | 14.496 | 14.472 | 14.522 | VV | 729574 | 8326129 | 83.46% | 4.887% |
| 16 | 16.001 | 15.961 | 16.016 | BV | 578832 | 8027372 | 80.46% | 4.712% |
| 17 | 16.036 | 16.016 | 16.095 | VV | 668081 | 7963511 | 79.82% | 4.674% |
| 18 | 16.377 | 16.288 | 16.450 | BV | 589233 | 7583422 | 76.01% | 4.451% |
| 19 | 17.744 | 17.701 | 17.759 | BV | 540528 | 7431556 | 74.49% | 4.362% |
| 20 | 17.781 | 17.759 | 17.951 | VB | 520450 | 7116213 | 71.33% | 4.177% |
| 21 | 17.996 | 17.951 | 18.131 | BB | 504256 | 7152340 | 71.69% | 4.198% |

Sum of corrected areas: 170363077

Aromatic EPH 111424.M Tue Nov 19 06:16:55 2024

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | PB165032BSD | | SDG No.: | P4860 | |
| Lab Sample ID: | PB165032BSD | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 100 | |
| Sample Wt/Vol: | 30.03 Units: | g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/18/24 16:39 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.37 | | 1 | 0.38 | 1.00 | mg/kg | FC067809.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.32 | | 1 | 0.24 | 0.67 | mg/kg | FC067809.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.08 | | 1 | 0.30 | 1.00 | mg/kg | FC067809.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.4 | | 1 | 0.80 | 1.33 | mg/kg | FC067809.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 17.7 | | 1 | 1.80 | 2.00 | mg/kg | FC067809.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 5.24 | | 1 | 0.30 | 0.67 | mg/kg | FD048768.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 9.30 | | 1 | 0.34 | 1.00 | mg/kg | FD048768.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 17.0 | | 1 | 0.96 | 1.67 | mg/kg | FD048768.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 26.7 | | 1 | 2.00 | 2.66 | mg/kg | FD048768.D |
| Total AliphaticEPH | Total AliphaticEPH | 47.9 | | | 3.52 | 5.99 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 58.2 | | | 3.60 | 6.00 | mg/kg | |
| Total EPH | Total EPH | 106 | | | 7.12 | 12.0 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165032BSD | SDG No.: | P4860 |
| Lab Sample ID: | PB165032BSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067809.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.37 | | 0.38 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.32 | | 0.24 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.08 | | 0.30 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.4 | | 0.80 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 17.7 | | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 32.1 | | 40 - 140 | 64% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BSD | Acq On: | 18 Nov 2024 16:39 |
| Client Sample ID: | PB165032BSD | Operator: | YP/AJ |
| Data file: | FC067809.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 19 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 15845078 | 95.572 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 13606967 | 79.86 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 20569153 | 121.265 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 24547765 | 156.077 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 32153817 | 265.49 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 106722780 | 718.264 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.929 | 12.929 | 4658064 | 32.09 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 74568963 | 452.774 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067809.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BSD

Integration File: sample.E
Quant Time: Nov 19 04:55:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 12) S | 1-chlorooctadecane (S... | 12.929 | 4658064 | 32.089 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 64.18% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.274 | 4169652 | 25.563 ug/ml |
| 2) T | n-Decane (C10) | 4.336 | 5305498 | 31.993 ug/ml |
| 4) T | n-Dodecane (C12) | 6.350 | 6369928 | 37.820 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.142 | 6754862 | 40.334 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.741 | 6852105 | 39.540 ug/ml |
| 8) T | n-Octadecane (C18) | 11.180 | 6995625 | 39.761 ug/ml |
| 10) T | n-Eicosane (C20) | 12.487 | 6959191 | 41.329 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.099 | 6614337 | 40.199 ug/ml |
| 13) T | n-Docosane (C22) | 13.684 | 6501390 | 39.922 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.785 | 6244056 | 38.932 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.804 | 5987706 | 38.665 ug/ml |
| 16) T | n-Octacosane (C28) | 16.752 | 5814613 | 38.501 ug/ml |
| 17) T | n-Tricontane (C30) | 17.639 | 5730068 | 37.425 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.470 | 5565939 | 37.686 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.252 | 5412323 | 42.911 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.991 | 5119430 | 48.949 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.713 | 5039519 | 51.590 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.597 | 5286538 | 54.239 ug/ml |

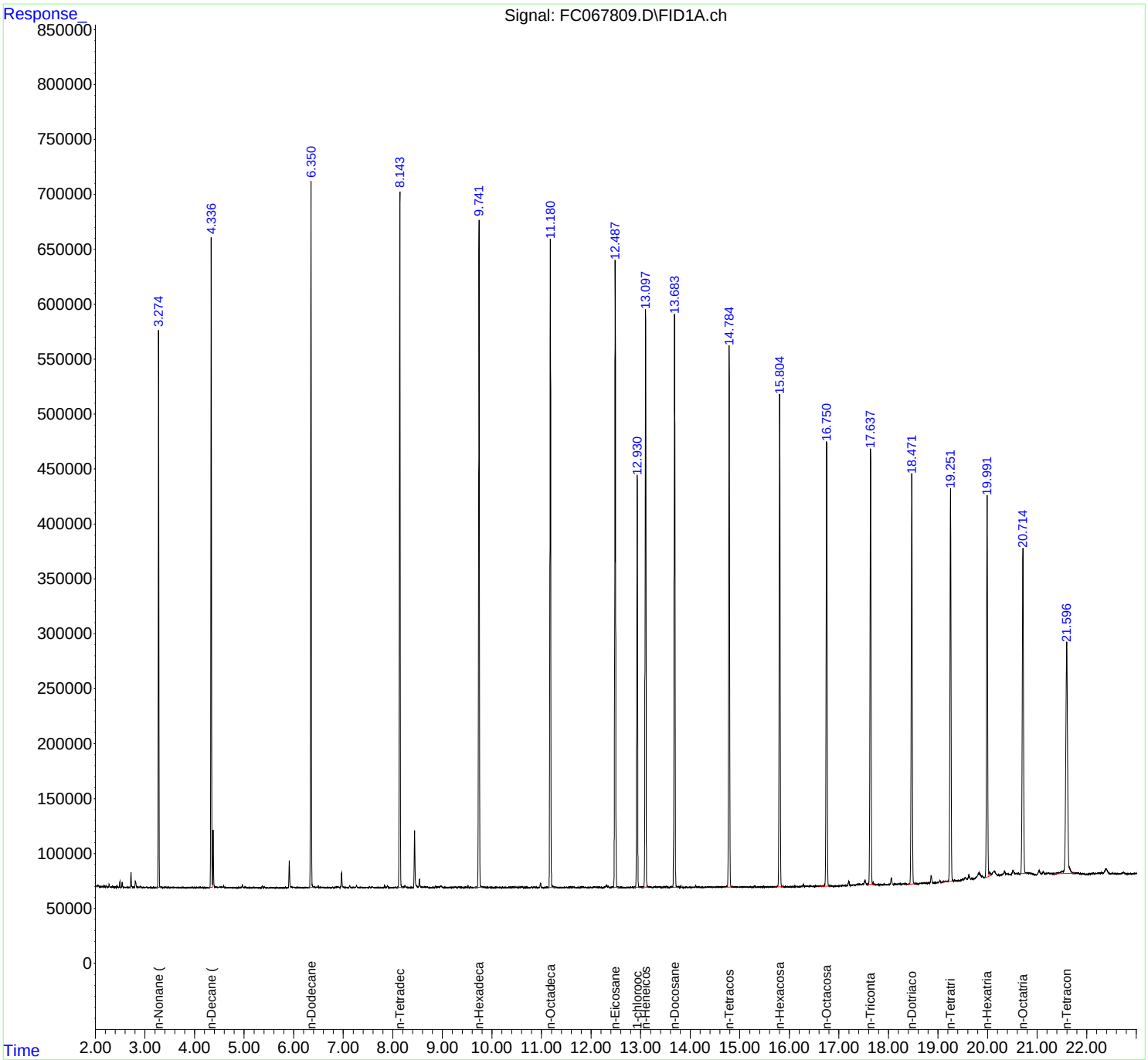
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067809.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BSD

Integration File: sample.E
Quant Time: Nov 19 04:55:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067809.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:39
Sample : PB165032BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.274 | 3.222 | 3.320 | BB | 509303 | 4169652 | 59.60% | 3.744% |
| 2 | 4.336 | 4.280 | 4.359 | BV | 588136 | 5305498 | 75.84% | 4.763% |
| 3 | 6.350 | 6.295 | 6.410 | BV | 644062 | 6369928 | 91.06% | 5.719% |
| 4 | 8.142 | 8.082 | 8.212 | BV | 630042 | 6754862 | 96.56% | 6.065% |
| 5 | 9.741 | 9.620 | 9.812 | BB | 608767 | 6852105 | 97.95% | 6.152% |
| 6 | 11.180 | 11.135 | 11.279 | BB | 589930 | 6995625 | 100.00% | 6.281% |
| 7 | 12.487 | 12.445 | 12.560 | PB | 570012 | 6959191 | 99.48% | 6.248% |
| 8 | 12.929 | 12.867 | 12.994 | BB | 376268 | 4658064 | 66.59% | 4.182% |
| 9 | 13.099 | 13.032 | 13.159 | BB | 521043 | 6614337 | 94.55% | 5.938% |
| 10 | 13.684 | 13.647 | 13.749 | PB | 516294 | 6501390 | 92.94% | 5.837% |
| 11 | 14.785 | 14.689 | 14.852 | BB | 492472 | 6244056 | 89.26% | 5.606% |
| 12 | 15.804 | 15.709 | 15.872 | BB | 446581 | 5987706 | 85.59% | 5.376% |
| 13 | 16.752 | 16.607 | 16.822 | BB | 400679 | 5814613 | 83.12% | 5.220% |
| 14 | 17.639 | 17.575 | 17.719 | BB | 391152 | 5730068 | 81.91% | 5.145% |
| 15 | 18.470 | 18.395 | 18.540 | BB | 369876 | 5565939 | 79.56% | 4.997% |
| 16 | 19.252 | 19.075 | 19.320 | BB | 355187 | 5412323 | 77.37% | 4.859% |
| 17 | 19.991 | 19.935 | 20.027 | BV | 345474 | 5119430 | 73.18% | 4.596% |
| 18 | 20.713 | 20.634 | 20.794 | BB | 292044 | 5039519 | 72.04% | 4.525% |
| 19 | 21.597 | 21.337 | 21.759 | BB | 208166 | 5286538 | 75.57% | 4.746% |

Sum of corrected areas: 111380844

Aliphatic EPH 111424.M Tue Nov 19 05:24:34 2024

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | PB165032BSD | | SDG No.: | P4860 | |
| Lab Sample ID: | PB165032BSD | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 100 | |
| Sample Wt/Vol: | 30.03 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048768.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 5.24 | | 0.30 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 9.30 | | 0.34 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 17.0 | | 0.96 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 26.7 | | 2.00 | 2.66 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 46.9 | | 40 - 140 | 94% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 42.3 | | 40 - 140 | 85% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 40.1 | | 40 - 140 | 80% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BSD | Acq On: | 18 Nov 2024 16:39 |
| Client Sample ID: | PB165032BSD | Operator: | YP/AJ |
| Data file: | FD048768.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 69 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 15119363 | 78.739 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 26863944 | 139.583 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 47409765 | 255.159 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 62943746 | 400.326 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 152336818 | 873.808 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.367 | 7.367 | 8248787 | 46.85 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.217 | 8.217 | 4866638 | 42.26 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.254 | 11.254 | 7710147 | 40.09 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048768.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.367 | 8248787 | 46.852 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 93.70% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.217 | 4866638 | 42.256 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 84.51% |
| 11) S | ortho-Terphenyl (SURR) | 11.254 | 7710147 | 40.087 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 80.17% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.191 | 6884236 | 36.529 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.707 | 8235127 | 42.108 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.754 | 8081250 | 42.287 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.021 | 9210211 | 47.493 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.317 | 9572483 | 49.767 ug/ml |
| 8) T | Flouorene (C16.55) | 9.095 | 9473016 | 49.376 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.483 | 9312497 | 50.804 ug/ml |
| 10) T | Anthracene (C19.43) | 10.559 | 9333900 | 49.842 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.288 | 9382920 | 51.239 ug/mlm |
| 13) T | Pyrene (C20.8) | 12.581 | 9123016 | 50.461 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.452 | 8572046 | 52.109 ug/ml |
| 15) T | Chrysene (C27.41) | 14.496 | 8471962 | 48.408 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.000 | 8158287 | 51.925 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.035 | 8077973 | 49.498 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.376 | 7709837 | 51.710 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.743 | 7523442 | 60.904 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.781 | 7186137 | 45.826 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.996 | 7244062 | 50.769 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048768.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

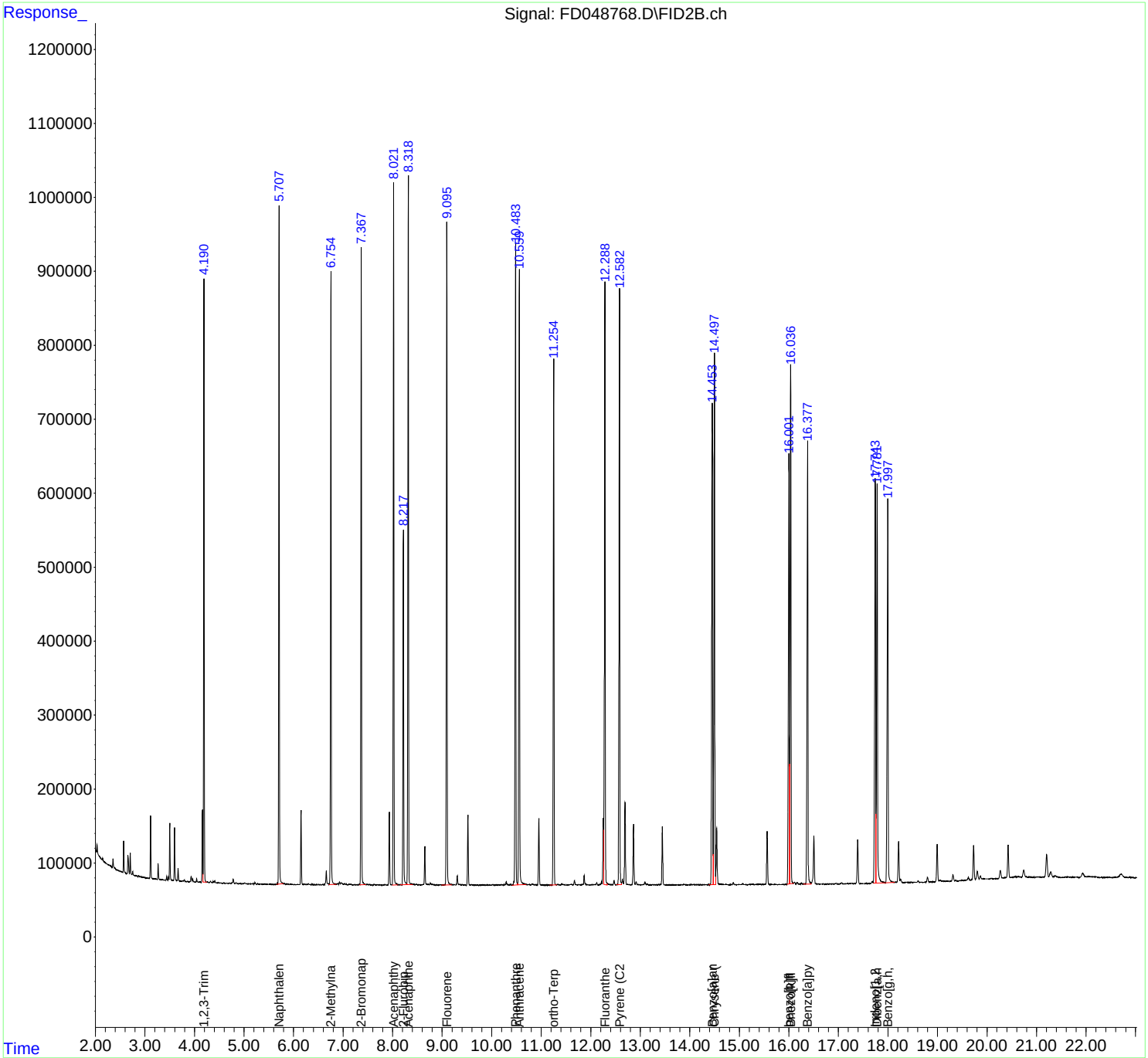
**Instrument :**
FID_D
**ClientSampleId :**
PB165032BSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



**Instrument :**
FID_D
**ClientSampleId :**
PB165032BSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048768.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:39
Sample : PB165032BSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.191 | 4.172 | 4.251 | VV | 815043 | 6884236 | 67.71% | 3.976% |
| 2 | 5.707 | 5.651 | 5.798 | BV | 918482 | 8235127 | 81.00% | 4.756% |
| 3 | 6.754 | 6.718 | 6.864 | VB | 829545 | 8081250 | 79.48% | 4.667% |
| 4 | 7.367 | 7.337 | 7.461 | VB | 862646 | 8248787 | 81.13% | 4.764% |
| 5 | 8.021 | 7.991 | 8.111 | BV | 947566 | 9210211 | 90.59% | 5.319% |
| 6 | 8.217 | 8.151 | 8.288 | BV | 481492 | 4866638 | 47.87% | 2.810% |
| 7 | 8.317 | 8.288 | 8.408 | VB | 964072 | 9572483 | 94.15% | 5.528% |
| 8 | 9.095 | 8.991 | 9.198 | BB | 893210 | 9473016 | 93.17% | 5.471% |
| 9 | 10.483 | 10.404 | 10.524 | PV | 880701 | 9312497 | 91.59% | 5.378% |
| 10 | 10.559 | 10.524 | 10.698 | VB | 826296 | 9333900 | 91.80% | 5.390% |
| 11 | 11.254 | 11.168 | 11.321 | BV | 715840 | 7710147 | 75.83% | 4.453% |
| 12 | 12.287 | 12.230 | 12.374 | VV | 815932 | 10167336 | 100.00% | 5.872% |
| 13 | 12.581 | 12.511 | 12.621 | BV | 800723 | 9123016 | 89.73% | 5.268% |
| 14 | 14.452 | 14.378 | 14.471 | BV | 638866 | 8572046 | 84.31% | 4.950% |
| 15 | 14.496 | 14.471 | 14.521 | VV | 704686 | 8471962 | 83.33% | 4.892% |
| 16 | 16.000 | 15.961 | 16.015 | BV | 584159 | 8158287 | 80.24% | 4.711% |
| 17 | 16.035 | 16.015 | 16.093 | VV | 693138 | 8077973 | 79.45% | 4.665% |
| 18 | 16.376 | 16.291 | 16.451 | BV | 609546 | 7709837 | 75.83% | 4.452% |
| 19 | 17.743 | 17.701 | 17.759 | BV | 552982 | 7523442 | 74.00% | 4.345% |
| 20 | 17.781 | 17.759 | 17.948 | VV | 542134 | 7186137 | 70.68% | 4.150% |
| 21 | 17.996 | 17.948 | 18.134 | PB | 513647 | 7244062 | 71.25% | 4.183% |

Sum of corrected areas: 173162391

Aromatic EPH 111424.M Tue Nov 19 06:17:35 2024

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | EX-4-TPH-6MS | | SDG No.: | P4860 | |
| Lab Sample ID: | P4839-22MS | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 89.5 | |
| Sample Wt/Vol: | 30.03 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/18/24 23:41 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.95 | | 1 | 0.42 | 1.12 | mg/kg | FC067811.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 7.89 | | 1 | 0.27 | 0.74 | mg/kg | FC067811.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 10.9 | | 1 | 0.34 | 1.12 | mg/kg | FC067811.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 14.1 | | 1 | 0.89 | 1.49 | mg/kg | FC067811.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 26.5 | | 1 | 2.01 | 2.23 | mg/kg | FC067811.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.32 | | 1 | 0.34 | 0.74 | mg/kg | FD048770.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 14.1 | | 1 | 0.38 | 1.12 | mg/kg | FD048770.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 23.4 | | 1 | 1.07 | 1.86 | mg/kg | FD048770.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 37.8 | | 1 | 2.23 | 2.98 | mg/kg | FD048770.D |
| Total AliphaticEPH | Total AliphaticEPH | 67.3 | | | 3.93 | 6.70 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 81.6 | | | 4.01 | 6.70 | mg/kg | |
| Total EPH | Total EPH | 149 | | | 7.95 | 13.4 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | EX-4-TPH-6MS | SDG No.: | P4860 |
| Lab Sample ID: | P4839-22MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 89.5 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067811.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.95 | | 0.42 | 1.12 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 7.89 | | 0.27 | 0.74 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 10.9 | | 0.34 | 1.12 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 14.1 | | 0.89 | 1.49 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 26.5 | | 2.01 | 2.23 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 38.8 | | 40 - 140 | 78% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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

# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4839-22MS | Acq On: | 18 Nov 2024 23:41 |
| Client Sample ID: | EX-4-TPH-6MS | Operator: | YP/AJ |
| Data file: | FC067811.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 21 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 17702305 | 106.775 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 18056102 | 105.973 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 24915252 | 146.887 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 29761226 | 189.224 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 43058796 | 355.531 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 133493681 | 904.39 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.931 | 12.931 | 5629921 | 38.78 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 90434885 | 548.859 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067811.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MS

Integration File: sample.E
Quant Time: Nov 19 04:55:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 12) S | 1-chlorooctadecane (S... | 12.931 | 5629921 | 38.784 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 77.57% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.272 | 4139513 | 25.378 ug/ml |
| 2) T | n-Decane (C10) | 4.335 | 5285048 | 31.870 ug/ml |
| 4) T | n-Dodecane (C12) | 6.350 | 6389245 | 37.935 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.142 | 7165044 | 42.784 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.742 | 7795696 | 44.985 ug/ml |
| 8) T | n-Octadecane (C18) | 11.182 | 8085825 | 45.958 ug/ml |
| 10) T | n-Eicosane (C20) | 12.490 | 8034177 | 47.713 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.101 | 7633285 | 46.392 ug/ml |
| 13) T | n-Docosane (C22) | 13.686 | 7496051 | 46.030 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.787 | 7291067 | 45.461 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.806 | 7014548 | 45.296 ug/ml |
| 16) T | n-Octacosane (C28) | 16.755 | 6783961 | 44.920 ug/ml |
| 17) T | n-Tricontane (C30) | 17.640 | 6603722 | 43.131 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.471 | 6402790 | 43.352 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.254 | 6267851 | 49.694 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.992 | 6058033 | 57.923 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.715 | 5995462 | 61.376 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.598 | 6045971 | 62.031 ug/ml |

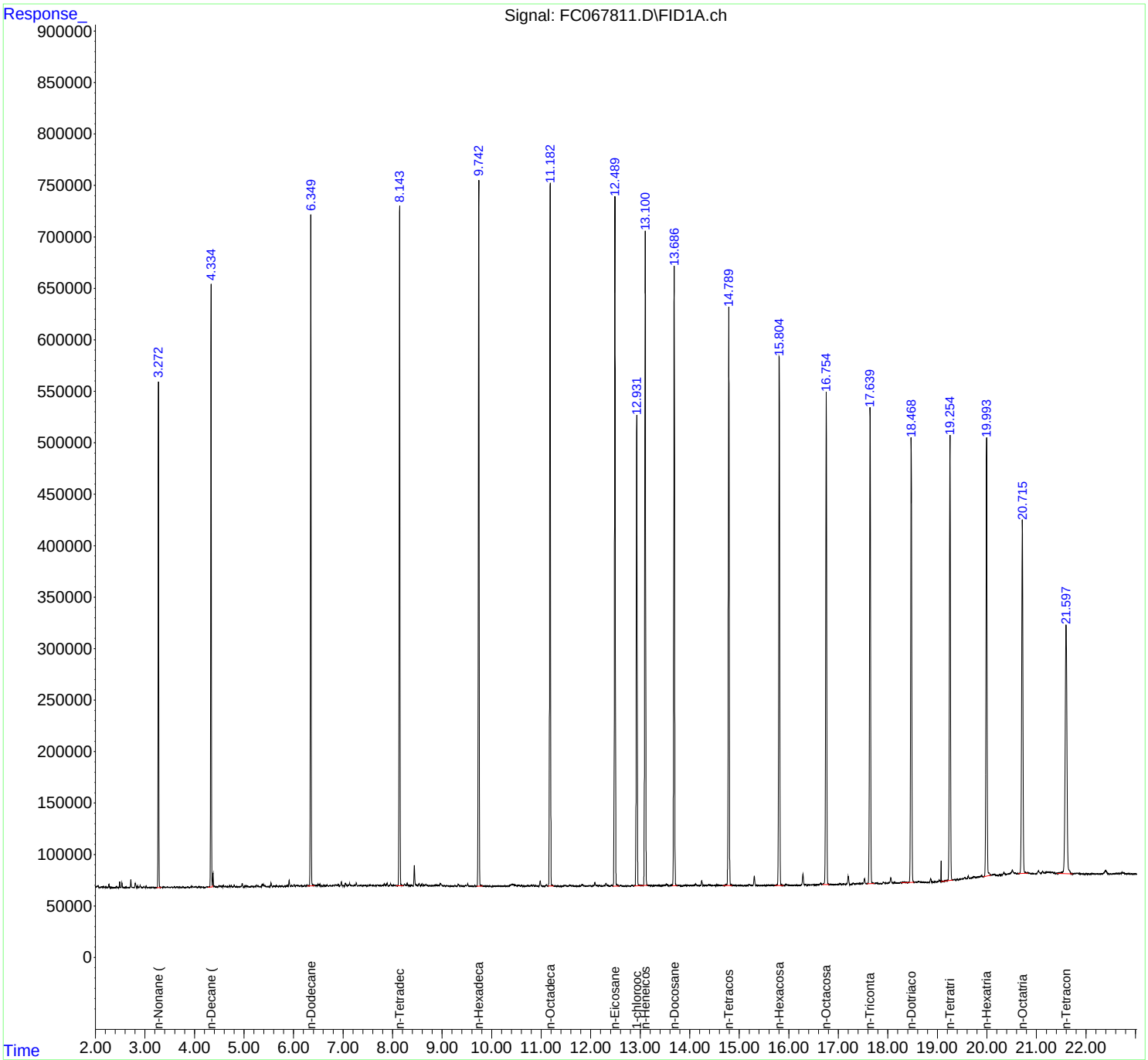
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067811.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MS

Integration File: sample.E
Quant Time: Nov 19 04:55:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067811.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 23:41
Sample : P4839-22MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.272 | 3.224 | 3.354 | BV | 486444 | 4145137 | 51.06% | 2.975% |
| 2 | 3.369 | 3.354 | 3.380 | VV | 203 | 2717 | 0.03% | 0.002% |
| 3 | 3.395 | 3.380 | 3.431 | VV | 566 | 9675 | 0.12% | 0.007% |
| 4 | 3.449 | 3.431 | 3.459 | VV | 458 | 4915 | 0.06% | 0.004% |
| 5 | 3.471 | 3.459 | 3.496 | VV | 469 | 5891 | 0.07% | 0.004% |
| 6 | 3.547 | 3.496 | 3.568 | VV | 717 | 13883 | 0.17% | 0.010% |
| 7 | 3.596 | 3.568 | 3.620 | VV | 656 | 11558 | 0.14% | 0.008% |
| 8 | 3.643 | 3.620 | 3.662 | VV | 601 | 9077 | 0.11% | 0.007% |
| 9 | 3.670 | 3.662 | 3.691 | VV | 484 | 5747 | 0.07% | 0.004% |
| 10 | 3.710 | 3.691 | 3.725 | VV | 471 | 7375 | 0.09% | 0.005% |
| 11 | 3.734 | 3.725 | 3.747 | VV | 325 | 2822 | 0.03% | 0.002% |
| 12 | 3.762 | 3.747 | 3.796 | VV | 580 | 8583 | 0.11% | 0.006% |
| 13 | 3.807 | 3.796 | 3.827 | PV | 226 | 2099 | 0.03% | 0.002% |
| 14 | 3.855 | 3.827 | 3.898 | VV | 488 | 12140 | 0.15% | 0.009% |
| 15 | 3.936 | 3.898 | 3.950 | VV | 1205 | 14976 | 0.18% | 0.011% |
| 16 | 3.964 | 3.950 | 3.984 | VV | 1387 | 14843 | 0.18% | 0.011% |
| 17 | 3.997 | 3.984 | 4.013 | VV | 559 | 7317 | 0.09% | 0.005% |
| 18 | 4.030 | 4.013 | 4.050 | VV | 913 | 11241 | 0.14% | 0.008% |
| 19 | 4.110 | 4.050 | 4.125 | VV | 983 | 22978 | 0.28% | 0.016% |
| 20 | 4.138 | 4.125 | 4.164 | VV | 526 | 9525 | 0.12% | 0.007% |
| 21 | 4.173 | 4.164 | 4.206 | VV | 410 | 6848 | 0.08% | 0.005% |
| 22 | 4.248 | 4.206 | 4.268 | PV | 807 | 13160 | 0.16% | 0.009% |
| 23 | 4.287 | 4.268 | 4.303 | VV | 621 | 10149 | 0.13% | 0.007% |
| 24 | 4.335 | 4.303 | 4.359 | VV | 583296 | 5295134 | 65.23% | 3.801% |
| 25 | 4.374 | 4.359 | 4.424 | VV | 13799 | 151965 | 1.87% | 0.109% |
| 26 | 4.435 | 4.424 | 4.465 | VV | 844 | 17250 | 0.21% | 0.012% |
| 27 | 4.501 | 4.465 | 4.516 | VV | 1705 | 32262 | 0.40% | 0.023% |
| 28 | 4.529 | 4.516 | 4.543 | VV | 1535 | 19486 | 0.24% | 0.014% |
| 29 | 4.556 | 4.543 | 4.570 | VV | 1611 | 18830 | 0.23% | 0.014% |
| 30 | 4.586 | 4.570 | 4.603 | VV | 2275 | 26507 | 0.33% | 0.019% |
| 31 | 4.615 | 4.603 | 4.628 | VV | 1093 | 13415 | 0.17% | 0.010% |
| 32 | 4.639 | 4.628 | 4.650 | VV | 944 | 11208 | 0.14% | 0.008% |
| 33 | 4.660 | 4.650 | 4.686 | VV | 996 | 17388 | 0.21% | 0.012% |
| 34 | 4.705 | 4.686 | 4.723 | VV | 1525 | 23202 | 0.29% | 0.017% |
| 35 | 4.741 | 4.723 | 4.781 | VV | 1424 | 31295 | 0.39% | 0.022% |
| 36 | 4.802 | 4.781 | 4.834 | VV | 2588 | 37494 | 0.46% | 0.027% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 4.852 | 4.834 | 4.874 | VV | 821 | 15603 | 0.19% | 0.011% |
| 38 | 4.888 | 4.874 | 4.904 | VV | 900 | 11853 | 0.15% | 0.009% |
| 39 | 4.964 | 4.904 | 4.996 | VV | 3856 | 76221 | 0.94% | 0.055% |
| 40 | 5.020 | 4.996 | 5.034 | VV | 1842 | 23945 | 0.29% | 0.017% |
| 41 | 5.048 | 5.034 | 5.062 | VV | 1690 | 20544 | 0.25% | 0.015% |
| 42 | 5.073 | 5.062 | 5.110 | VV | 1181 | 25210 | 0.31% | 0.018% |
| 43 | 5.134 | 5.110 | 5.151 | VV | 822 | 17164 | 0.21% | 0.012% |
| 44 | 5.165 | 5.151 | 5.176 | VV | 981 | 13571 | 0.17% | 0.010% |
| 45 | 5.188 | 5.176 | 5.214 | VV | 1024 | 19591 | 0.24% | 0.014% |
| 46 | 5.228 | 5.214 | 5.241 | VV | 984 | 13465 | 0.17% | 0.010% |
| 47 | 5.256 | 5.241 | 5.272 | VV | 2310 | 28597 | 0.35% | 0.021% |
| 48 | 5.284 | 5.272 | 5.324 | VV | 1321 | 31061 | 0.38% | 0.022% |
| 49 | 5.368 | 5.324 | 5.378 | VV | 3245 | 50908 | 0.63% | 0.037% |
| 50 | 5.388 | 5.378 | 5.472 | VV | 3177 | 86578 | 1.07% | 0.062% |
| 51 | 5.489 | 5.472 | 5.508 | VV | 1076 | 18172 | 0.22% | 0.013% |
| 52 | 5.546 | 5.508 | 5.575 | VV | 4355 | 70508 | 0.87% | 0.051% |
| 53 | 5.599 | 5.575 | 5.634 | VV | 1063 | 33668 | 0.41% | 0.024% |
| 54 | 5.655 | 5.634 | 5.691 | VV | 1412 | 36968 | 0.46% | 0.027% |
| 55 | 5.714 | 5.691 | 5.724 | VV | 1280 | 19432 | 0.24% | 0.014% |
| 56 | 5.735 | 5.724 | 5.744 | VV | 1102 | 11810 | 0.15% | 0.008% |
| 57 | 5.772 | 5.744 | 5.801 | VV | 1454 | 37035 | 0.46% | 0.027% |
| 58 | 5.821 | 5.801 | 5.841 | VV | 1410 | 23742 | 0.29% | 0.017% |
| 59 | 5.876 | 5.841 | 5.891 | VV | 1984 | 41688 | 0.51% | 0.030% |
| 60 | 5.912 | 5.891 | 5.948 | VV | 6943 | 97099 | 1.20% | 0.070% |
| 61 | 5.962 | 5.948 | 5.988 | VV | 1649 | 31216 | 0.38% | 0.022% |
| 62 | 6.009 | 5.988 | 6.034 | VV | 2647 | 47561 | 0.59% | 0.034% |
| 63 | 6.065 | 6.034 | 6.078 | VV | 1810 | 39765 | 0.49% | 0.029% |
| 64 | 6.092 | 6.078 | 6.118 | VV | 1699 | 35102 | 0.43% | 0.025% |
| 65 | 6.153 | 6.118 | 6.177 | VV | 1853 | 50650 | 0.62% | 0.036% |
| 66 | 6.187 | 6.177 | 6.205 | VV | 1257 | 19297 | 0.24% | 0.014% |
| 67 | 6.227 | 6.205 | 6.251 | VV | 1726 | 38156 | 0.47% | 0.027% |
| 68 | 6.272 | 6.251 | 6.289 | VV | 1849 | 34704 | 0.43% | 0.025% |
| 69 | 6.300 | 6.289 | 6.315 | VV | 1720 | 24313 | 0.30% | 0.017% |
| 70 | 6.350 | 6.315 | 6.419 | VV | 651501 | 6474388 | 79.76% | 4.647% |
| 71 | 6.434 | 6.419 | 6.451 | VV | 2094 | 34628 | 0.43% | 0.025% |
| 72 | 6.496 | 6.451 | 6.518 | VV | 3010 | 79524 | 0.98% | 0.057% |
| 73 | 6.534 | 6.518 | 6.555 | VV | 2793 | 45107 | 0.56% | 0.032% |
| 74 | 6.569 | 6.555 | 6.593 | VV | 1659 | 29762 | 0.37% | 0.021% |
| 75 | 6.611 | 6.593 | 6.641 | VV | 1638 | 41606 | 0.51% | 0.030% |
| 76 | 6.675 | 6.641 | 6.695 | VV | 1948 | 49368 | 0.61% | 0.035% |
| 77 | 6.732 | 6.695 | 6.764 | VV | 1681 | 56561 | 0.70% | 0.041% |
| 78 | 6.803 | 6.764 | 6.821 | VV | 1877 | 51150 | 0.63% | 0.037% |
| 79 | 6.841 | 6.821 | 6.855 | VV | 2456 | 38058 | 0.47% | 0.027% |
| 80 | 6.867 | 6.855 | 6.882 | VV | 2246 | 31924 | 0.39% | 0.023% |
| 81 | 6.903 | 6.882 | 6.932 | VV | 2349 | 53276 | 0.66% | 0.038% |
| 82 | 6.966 | 6.932 | 7.028 | VV | 5041 | 117856 | 1.45% | 0.085% |
| 83 | 7.048 | 7.028 | 7.087 | VV | 3815 | 80199 | 0.99% | 0.058% |
| 84 | 7.101 | 7.087 | 7.111 | VV | 1655 | 22029 | 0.27% | 0.016% |
| 85 | 7.130 | 7.111 | 7.164 | VV | 3384 | 67563 | 0.83% | 0.048% |
| 86 | 7.175 | 7.164 | 7.203 | VV | 1528 | 33602 | 0.41% | 0.024% |
| 87 | 7.235 | 7.203 | 7.246 | VV | 1969 | 41543 | 0.51% | 0.030% |
| 88 | 7.269 | 7.246 | 7.294 | VV | 3966 | 68067 | 0.84% | 0.049% |
| 89 | 7.338 | 7.294 | 7.345 | VV | 1497 | 42658 | 0.53% | 0.031% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.357 | 7.345 | 7.381 | VV | 1697 | 30444 | 0.38% | 0.022% |
| 91 | 7.440 | 7.381 | 7.469 | VV | 1699 | 73093 | 0.90% | 0.052% |
| 92 | 7.491 | 7.469 | 7.510 | VV | 1314 | 28744 | 0.35% | 0.021% |
| 93 | 7.531 | 7.510 | 7.544 | VV | 2209 | 35581 | 0.44% | 0.026% |
| 94 | 7.555 | 7.544 | 7.571 | VV | 1910 | 27829 | 0.34% | 0.020% |
| 95 | 7.584 | 7.571 | 7.595 | VV | 1588 | 21796 | 0.27% | 0.016% |
| 96 | 7.605 | 7.595 | 7.625 | VV | 1551 | 26369 | 0.32% | 0.019% |
| 97 | 7.645 | 7.625 | 7.661 | VV | 1451 | 28588 | 0.35% | 0.021% |
| 98 | 7.696 | 7.661 | 7.730 | VV | 2077 | 63201 | 0.78% | 0.045% |
| 99 | 7.746 | 7.730 | 7.766 | VV | 1513 | 29401 | 0.36% | 0.021% |
| 100 | 7.791 | 7.766 | 7.806 | VV | 1488 | 30962 | 0.38% | 0.022% |
| 101 | 7.836 | 7.806 | 7.857 | VV | 3293 | 61636 | 0.76% | 0.044% |
| 102 | 7.890 | 7.857 | 7.917 | VV | 3481 | 74325 | 0.92% | 0.053% |
| 103 | 7.961 | 7.917 | 7.996 | VV | 3077 | 82754 | 1.02% | 0.059% |
| 104 | 8.016 | 7.996 | 8.030 | VV | 1724 | 30526 | 0.38% | 0.022% |
| 105 | 8.046 | 8.030 | 8.075 | VV | 1921 | 39498 | 0.49% | 0.028% |
| 106 | 8.083 | 8.075 | 8.092 | VV | 1197 | 12283 | 0.15% | 0.009% |
| 107 | 8.098 | 8.092 | 8.108 | VV | 1234 | 10957 | 0.13% | 0.008% |
| 108 | 8.142 | 8.108 | 8.208 | VV | 667227 | 7237128 | 89.15% | 5.195% |
| 109 | 8.243 | 8.208 | 8.271 | VV | 2660 | 70941 | 0.87% | 0.051% |
| 110 | 8.295 | 8.271 | 8.358 | VV | 3987 | 98249 | 1.21% | 0.071% |
| 111 | 8.380 | 8.358 | 8.409 | VV | 1470 | 38662 | 0.48% | 0.028% |
| 112 | 8.441 | 8.409 | 8.504 | VV | 20904 | 290615 | 3.58% | 0.209% |
| 113 | 8.536 | 8.504 | 8.570 | VV | 3426 | 74467 | 0.92% | 0.053% |
| 114 | 8.592 | 8.570 | 8.614 | VV | 2704 | 47710 | 0.59% | 0.034% |
| 115 | 8.629 | 8.614 | 8.641 | VV | 1619 | 22367 | 0.28% | 0.016% |
| 116 | 8.675 | 8.641 | 8.715 | VV | 2731 | 74271 | 0.91% | 0.053% |
| 117 | 8.742 | 8.715 | 8.772 | VV | 1220 | 34793 | 0.43% | 0.025% |
| 118 | 8.794 | 8.772 | 8.811 | VV | 1307 | 25054 | 0.31% | 0.018% |
| 119 | 8.823 | 8.811 | 8.837 | VV | 1222 | 17700 | 0.22% | 0.013% |
| 120 | 8.858 | 8.837 | 8.875 | VV | 2003 | 34722 | 0.43% | 0.025% |
| 121 | 8.896 | 8.875 | 8.940 | VV | 1719 | 55484 | 0.68% | 0.040% |
| 122 | 8.973 | 8.940 | 9.028 | VV | 2906 | 92119 | 1.13% | 0.066% |
| 123 | 9.046 | 9.028 | 9.071 | VV | 1358 | 27100 | 0.33% | 0.019% |
| 124 | 9.095 | 9.071 | 9.129 | VV | 1104 | 29721 | 0.37% | 0.021% |
| 125 | 9.138 | 9.129 | 9.164 | VV | 777 | 14199 | 0.17% | 0.010% |
| 126 | 9.199 | 9.164 | 9.228 | VV | 701 | 22146 | 0.27% | 0.016% |
| 127 | 9.261 | 9.228 | 9.298 | VV | 1190 | 29885 | 0.37% | 0.021% |
| 128 | 9.326 | 9.298 | 9.361 | VV | 2449 | 50013 | 0.62% | 0.036% |
| 129 | 9.379 | 9.361 | 9.394 | VV | 1206 | 17409 | 0.21% | 0.012% |
| 130 | 9.416 | 9.394 | 9.448 | VV | 830 | 21364 | 0.26% | 0.015% |
| 131 | 9.473 | 9.448 | 9.491 | VV | 1290 | 25179 | 0.31% | 0.018% |
| 132 | 9.517 | 9.491 | 9.557 | VV | 2938 | 48401 | 0.60% | 0.035% |
| 133 | 9.577 | 9.557 | 9.641 | VV | 671 | 24098 | 0.30% | 0.017% |
| 134 | 9.657 | 9.641 | 9.699 | VV | 1040 | 23690 | 0.29% | 0.017% |
| 135 | 9.741 | 9.699 | 9.799 | VV | 685766 | 7823851 | 96.38% | 5.616% |
| 136 | 9.808 | 9.799 | 9.868 | VV | 878 | 26924 | 0.33% | 0.019% |
| 137 | 9.881 | 9.868 | 9.940 | VV | 662 | 18735 | 0.23% | 0.013% |
| 138 | 9.962 | 9.940 | 9.992 | VV | 694 | 11688 | 0.14% | 0.008% |
| 139 | 10.015 | 9.992 | 10.031 | VV | 398 | 6944 | 0.09% | 0.005% |
| 140 | 10.057 | 10.031 | 10.071 | VV | 522 | 9839 | 0.12% | 0.007% |
| 141 | 10.087 | 10.071 | 10.098 | VV | 456 | 6455 | 0.08% | 0.005% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.128 | 10.098 | 10.151 | VV | 819 | 18258 | 0.22% | 0.013% |
| 143 | 10.171 | 10.151 | 10.191 | VV | 602 | 12566 | 0.15% | 0.009% |
| 144 | 10.208 | 10.191 | 10.234 | VV | 522 | 11636 | 0.14% | 0.008% |
| 145 | 10.260 | 10.234 | 10.307 | VV | 640 | 22013 | 0.27% | 0.016% |
| 146 | 10.341 | 10.307 | 10.350 | VV | 745 | 14876 | 0.18% | 0.011% |
| 147 | 10.412 | 10.350 | 10.459 | VV | 2165 | 99996 | 1.23% | 0.072% |
| 148 | 10.474 | 10.459 | 10.510 | VV | 1442 | 32695 | 0.40% | 0.023% |
| 149 | 10.554 | 10.510 | 10.579 | VV | 1186 | 37785 | 0.47% | 0.027% |
| 150 | 10.602 | 10.579 | 10.641 | VV | 1180 | 24287 | 0.30% | 0.017% |
| 151 | 10.650 | 10.641 | 10.663 | VV | 370 | 4186 | 0.05% | 0.003% |
| 152 | 10.724 | 10.663 | 10.774 | VV | 1039 | 37194 | 0.46% | 0.027% |
| 153 | 10.799 | 10.774 | 10.821 | VV | 1274 | 22993 | 0.28% | 0.017% |
| 154 | 10.846 | 10.821 | 10.879 | VV | 1608 | 30635 | 0.38% | 0.022% |
| 155 | 10.895 | 10.879 | 10.917 | VV | 704 | 12625 | 0.16% | 0.009% |
| 156 | 10.928 | 10.917 | 10.956 | VV | 465 | 8420 | 0.10% | 0.006% |
| 157 | 10.982 | 10.956 | 11.025 | VV | 5256 | 71429 | 0.88% | 0.051% |
| 158 | 11.034 | 11.025 | 11.064 | VV | 239 | 4270 | 0.05% | 0.003% |
| 159 | 11.107 | 11.064 | 11.134 | VV | 1908 | 32015 | 0.39% | 0.023% |
| 160 | 11.182 | 11.134 | 11.264 | VV | 670975 | 8117595 | 100.00% | 5.827% |
| 161 | 11.270 | 11.264 | 11.348 | VV | 700 | 14397 | 0.18% | 0.010% |
| 162 | 11.358 | 11.348 | 11.388 | VV | 135 | 2328 | 0.03% | 0.002% |
| 163 | 11.410 | 11.388 | 11.428 | VV | 231 | 3209 | 0.04% | 0.002% |
| 164 | 11.461 | 11.428 | 11.472 | VV | 809 | 12922 | 0.16% | 0.009% |
| 165 | 11.488 | 11.472 | 11.514 | VV | 1160 | 17602 | 0.22% | 0.013% |
| 166 | 11.531 | 11.514 | 11.544 | VV | 421 | 5884 | 0.07% | 0.004% |
| 167 | 11.582 | 11.544 | 11.608 | VV | 1325 | 28452 | 0.35% | 0.020% |
| 168 | 11.630 | 11.608 | 11.713 | VV | 774 | 23384 | 0.29% | 0.017% |
| 169 | 11.724 | 11.713 | 11.731 | VV | 244 | 1989 | 0.02% | 0.001% |
| 170 | 11.741 | 11.731 | 11.754 | VV | 283 | 3457 | 0.04% | 0.002% |
| 171 | 11.775 | 11.754 | 11.797 | VV | 528 | 9784 | 0.12% | 0.007% |
| 172 | 11.828 | 11.797 | 11.880 | VV | 1620 | 43877 | 0.54% | 0.031% |
| 173 | 11.888 | 11.880 | 11.911 | VV | 458 | 6271 | 0.08% | 0.005% |
| 174 | 11.934 | 11.911 | 11.958 | VV | 511 | 10105 | 0.12% | 0.007% |
| 175 | 11.976 | 11.958 | 12.024 | VV | 750 | 17320 | 0.21% | 0.012% |
| 176 | 12.084 | 12.024 | 12.111 | VV | 3901 | 65999 | 0.81% | 0.047% |
| 177 | 12.122 | 12.111 | 12.153 | VV | 917 | 18052 | 0.22% | 0.013% |
| 178 | 12.179 | 12.153 | 12.234 | VV | 821 | 22652 | 0.28% | 0.016% |
| 179 | 12.310 | 12.234 | 12.333 | VV | 2877 | 58349 | 0.72% | 0.042% |
| 180 | 12.347 | 12.333 | 12.384 | VV | 1116 | 16803 | 0.21% | 0.012% |
| 181 | 12.425 | 12.384 | 12.447 | VV | 1170 | 20821 | 0.26% | 0.015% |
| 182 | 12.490 | 12.447 | 12.574 | VV | 677922 | 8045669 | 99.11% | 5.775% |
| 183 | 12.605 | 12.574 | 12.642 | VV | 1014 | 19331 | 0.24% | 0.014% |
| 184 | 12.653 | 12.642 | 12.678 | VV | 139 | 1656 | 0.02% | 0.001% |
| 185 | 12.685 | 12.678 | 12.692 | VV | 96 | 638 | 0.01% | 0.000% |
| 186 | 12.751 | 12.692 | 12.801 | VV | 351 | 13599 | 0.17% | 0.010% |
| 187 | 12.834 | 12.801 | 12.868 | VV | 1176 | 21329 | 0.26% | 0.015% |
| 188 | 12.931 | 12.868 | 12.971 | VV | 454035 | 5653231 | 69.64% | 4.058% |
| 189 | 12.986 | 12.971 | 13.018 | VV | 1130 | 23995 | 0.30% | 0.017% |
| 190 | 13.038 | 13.018 | 13.061 | VV | 787 | 14149 | 0.17% | 0.010% |
| 191 | 13.101 | 13.061 | 13.255 | VV | 625661 | 7702094 | 94.88% | 5.529% |
| 192 | 13.295 | 13.255 | 13.331 | VV | 597 | 19231 | 0.24% | 0.014% |
| 193 | 13.383 | 13.331 | 13.411 | VV | 598 | 22195 | 0.27% | 0.016% |
| 194 | 13.482 | 13.411 | 13.508 | VV | 888 | 31919 | 0.39% | 0.023% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.527 | 13.508 | 13.597 | VV | 1799 | 43778 | 0.54% | 0.031% |
| 196 | 13.629 | 13.597 | 13.645 | VV | 1253 | 19933 | 0.25% | 0.014% |
| 197 | 13.686 | 13.645 | 13.761 | VV | 601805 | 7523928 | 92.69% | 5.401% |
| 198 | 13.767 | 13.761 | 13.836 | VV | 611 | 15825 | 0.19% | 0.011% |
| 199 | 13.841 | 13.836 | 13.850 | VV | 259 | 1605 | 0.02% | 0.001% |
| 200 | 13.920 | 13.850 | 13.993 | VV | 801 | 37468 | 0.46% | 0.027% |
| 201 | 14.022 | 13.993 | 14.054 | VV | 608 | 16361 | 0.20% | 0.012% |
| 202 | 14.070 | 14.054 | 14.089 | VV | 761 | 11530 | 0.14% | 0.008% |
| 203 | 14.116 | 14.089 | 14.174 | VV | 1847 | 41329 | 0.51% | 0.030% |
| 204 | 14.183 | 14.174 | 14.203 | VV | 407 | 6061 | 0.07% | 0.004% |
| 205 | 14.243 | 14.203 | 14.278 | VV | 5213 | 75861 | 0.93% | 0.054% |
| 206 | 14.307 | 14.278 | 14.354 | VV | 579 | 20055 | 0.25% | 0.014% |
| 207 | 14.395 | 14.354 | 14.473 | VV | 1151 | 42789 | 0.53% | 0.031% |
| 208 | 14.489 | 14.473 | 14.508 | VV | 429 | 7907 | 0.10% | 0.006% |
| 209 | 14.532 | 14.508 | 14.551 | VV | 456 | 9881 | 0.12% | 0.007% |
| 210 | 14.578 | 14.551 | 14.608 | VV | 732 | 19214 | 0.24% | 0.014% |
| 211 | 14.628 | 14.608 | 14.684 | VV | 492 | 17158 | 0.21% | 0.012% |
| 212 | 14.787 | 14.684 | 14.938 | VV | 557858 | 7350951 | 90.56% | 5.276% |
| 213 | 14.979 | 14.938 | 15.014 | VV | 401 | 13592 | 0.17% | 0.010% |
| 214 | 15.023 | 15.014 | 15.038 | VV | 309 | 3786 | 0.05% | 0.003% |
| 215 | 15.047 | 15.038 | 15.091 | VV | 303 | 6068 | 0.07% | 0.004% |
| 216 | 15.125 | 15.091 | 15.153 | VV | 330 | 7422 | 0.09% | 0.005% |
| 217 | 15.199 | 15.153 | 15.239 | VV | 1131 | 30024 | 0.37% | 0.022% |
| 218 | 15.254 | 15.239 | 15.270 | VV | 467 | 6757 | 0.08% | 0.005% |
| 219 | 15.301 | 15.270 | 15.338 | VV | 9411 | 128360 | 1.58% | 0.092% |
| 220 | 15.349 | 15.338 | 15.394 | VV | 308 | 5209 | 0.06% | 0.004% |
| 221 | 15.424 | 15.394 | 15.462 | PV | 236 | 5573 | 0.07% | 0.004% |
| 222 | 15.487 | 15.462 | 15.547 | VV | 317 | 9707 | 0.12% | 0.007% |
| 223 | 15.583 | 15.547 | 15.614 | VV | 635 | 16350 | 0.20% | 0.012% |
| 224 | 15.622 | 15.614 | 15.641 | VV | 547 | 6630 | 0.08% | 0.005% |
| 225 | 15.672 | 15.641 | 15.724 | VV | 624 | 16828 | 0.21% | 0.012% |
| 226 | 15.806 | 15.724 | 15.911 | VV | 517549 | 7034290 | 86.65% | 5.049% |
| 227 | 15.942 | 15.911 | 15.963 | VV | 1004 | 17541 | 0.22% | 0.013% |
| 228 | 15.976 | 15.963 | 16.054 | VV | 561 | 13840 | 0.17% | 0.010% |
| 229 | 16.110 | 16.054 | 16.134 | VV | 422 | 9065 | 0.11% | 0.007% |
| 230 | 16.156 | 16.134 | 16.210 | VV | 278 | 5720 | 0.07% | 0.004% |
| 231 | 16.284 | 16.210 | 16.314 | PV | 11131 | 166696 | 2.05% | 0.120% |
| 232 | 16.328 | 16.314 | 16.384 | VV | 687 | 17092 | 0.21% | 0.012% |
| 233 | 16.427 | 16.384 | 16.498 | VV | 374 | 17640 | 0.22% | 0.013% |
| 234 | 16.504 | 16.498 | 16.527 | VV | 264 | 3244 | 0.04% | 0.002% |
| 235 | 16.584 | 16.527 | 16.607 | VV | 592 | 13961 | 0.17% | 0.010% |
| 236 | 16.641 | 16.607 | 16.674 | VV | 1619 | 36959 | 0.46% | 0.027% |
| 237 | 16.755 | 16.674 | 16.828 | VV | 478619 | 6818821 | 84.00% | 4.895% |
| 238 | 16.838 | 16.828 | 16.908 | VV | 493 | 15072 | 0.19% | 0.011% |
| 239 | 16.979 | 16.908 | 17.001 | VV | 438 | 14385 | 0.18% | 0.010% |
| 240 | 17.036 | 17.001 | 17.068 | VV | 1010 | 23362 | 0.29% | 0.017% |
| 241 | 17.093 | 17.068 | 17.141 | VV | 538 | 17477 | 0.22% | 0.013% |
| 242 | 17.151 | 17.141 | 17.158 | VV | 422 | 3572 | 0.04% | 0.003% |
| 243 | 17.200 | 17.158 | 17.251 | VV | 8222 | 123599 | 1.52% | 0.089% |
| 244 | 17.301 | 17.251 | 17.334 | PV | 1259 | 25643 | 0.32% | 0.018% |
| 245 | 17.386 | 17.334 | 17.414 | VV | 882 | 27595 | 0.34% | 0.020% |
| 246 | 17.430 | 17.414 | 17.447 | VV | 651 | 10498 | 0.13% | 0.008% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 17.478 | 17.447 | 17.499 | VV | 954 | 21058 | 0.26% | 0.015% |
| 248 | 17.527 | 17.499 | 17.558 | VV | 5307 | 79609 | 0.98% | 0.057% |
| 249 | 17.640 | 17.558 | 17.734 | VV | 462638 | 6633747 | 81.72% | 4.762% |
| 250 | 17.770 | 17.734 | 17.831 | VV | 788 | 25883 | 0.32% | 0.019% |
| 251 | 17.846 | 17.831 | 17.867 | VV | 212 | 3127 | 0.04% | 0.002% |
| 252 | 17.913 | 17.867 | 17.951 | VV | 1547 | 34431 | 0.42% | 0.025% |
| 253 | 17.953 | 17.951 | 17.984 | VV | 563 | 5902 | 0.07% | 0.004% |
| 254 | 18.016 | 17.984 | 18.030 | VV | 882 | 15208 | 0.19% | 0.011% |
| 255 | 18.058 | 18.030 | 18.088 | VV | 5759 | 89958 | 1.11% | 0.065% |
| 256 | 18.105 | 18.088 | 18.117 | VV | 639 | 10680 | 0.13% | 0.008% |
| 257 | 18.135 | 18.117 | 18.177 | VV | 926 | 21812 | 0.27% | 0.016% |
| 258 | 18.190 | 18.177 | 18.224 | VV | 490 | 10176 | 0.13% | 0.007% |
| 259 | 18.318 | 18.224 | 18.353 | VV | 1117 | 46583 | 0.57% | 0.033% |
| 260 | 18.366 | 18.353 | 18.416 | VV | 764 | 20241 | 0.25% | 0.015% |
| 261 | 18.471 | 18.416 | 18.534 | VV | 415056 | 6425719 | 79.16% | 4.612% |
| 262 | 18.562 | 18.534 | 18.578 | VV | 708 | 15417 | 0.19% | 0.011% |
| 263 | 18.621 | 18.578 | 18.703 | VV | 1189 | 52799 | 0.65% | 0.038% |
| 264 | 18.722 | 18.703 | 18.757 | VV | 523 | 13182 | 0.16% | 0.009% |
| 265 | 18.769 | 18.757 | 18.798 | VV | 359 | 4970 | 0.06% | 0.004% |
| 266 | 18.864 | 18.798 | 18.924 | PV | 3747 | 62882 | 0.77% | 0.045% |
| 267 | 18.959 | 18.924 | 18.981 | VV | 307 | 5577 | 0.07% | 0.004% |
| 268 | 18.992 | 18.981 | 18.997 | VV | 156 | 988 | 0.01% | 0.001% |
| 269 | 19.037 | 18.997 | 19.084 | VV | 1615 | 49167 | 0.61% | 0.035% |
| 270 | 19.116 | 19.084 | 19.127 | VV | 619 | 12138 | 0.15% | 0.009% |
| 271 | 19.254 | 19.127 | 19.316 | VV | 430272 | 6340453 | 78.11% | 4.551% |
| 272 | 19.344 | 19.316 | 19.373 | VV | 1523 | 44839 | 0.55% | 0.032% |
| 273 | 19.405 | 19.373 | 19.423 | VV | 1462 | 39008 | 0.48% | 0.028% |
| 274 | 19.552 | 19.423 | 19.587 | VV | 3214 | 184486 | 2.27% | 0.132% |
| 275 | 19.625 | 19.587 | 19.651 | VV | 3874 | 98623 | 1.21% | 0.071% |
| 276 | 19.738 | 19.651 | 19.784 | VV | 3115 | 204558 | 2.52% | 0.147% |
| 277 | 19.890 | 19.784 | 19.924 | VV | 4053 | 254280 | 3.13% | 0.183% |
| 278 | 19.992 | 19.924 | 20.031 | VV | 425633 | 6225554 | 76.69% | 4.469% |
| 279 | 20.040 | 20.031 | 20.081 | VV | 6470 | 157456 | 1.94% | 0.113% |
| 280 | 20.134 | 20.081 | 20.231 | VV | 4633 | 359404 | 4.43% | 0.258% |
| 281 | 20.258 | 20.231 | 20.281 | VV | 3992 | 111353 | 1.37% | 0.080% |
| 282 | 20.342 | 20.281 | 20.375 | VV | 5924 | 246138 | 3.03% | 0.177% |
| 283 | 20.384 | 20.375 | 20.392 | VV | 4162 | 41273 | 0.51% | 0.030% |
| 284 | 20.511 | 20.392 | 20.569 | VV | 7482 | 539885 | 6.65% | 0.388% |
| 285 | 20.577 | 20.569 | 20.617 | VV | 4679 | 125501 | 1.55% | 0.090% |
| 286 | 20.715 | 20.617 | 20.848 | VV | 345124 | 6562319 | 80.84% | 4.710% |
| 287 | 20.864 | 20.848 | 20.891 | VV | 3926 | 97960 | 1.21% | 0.070% |
| 288 | 20.906 | 20.891 | 20.984 | VV | 3566 | 181928 | 2.24% | 0.131% |
| 289 | 21.042 | 20.984 | 21.085 | VV | 5505 | 241708 | 2.98% | 0.173% |
| 290 | 21.122 | 21.085 | 21.161 | VV | 4641 | 180225 | 2.22% | 0.129% |
| 291 | 21.238 | 21.161 | 21.394 | VV | 4143 | 495351 | 6.10% | 0.356% |
| 292 | 21.410 | 21.394 | 21.444 | VV | 2643 | 75185 | 0.93% | 0.054% |
| 293 | 21.598 | 21.444 | 21.724 | VV | 243209 | 6343924 | 78.15% | 4.554% |
| 294 | 21.822 | 21.724 | 21.971 | VV | 1436 | 152341 | 1.88% | 0.109% |
| 295 | 21.984 | 21.971 | 22.024 | VV | 479 | 9436 | 0.12% | 0.007% |
| 296 | 22.042 | 22.024 | 22.050 | VV | 335 | 3835 | 0.05% | 0.003% |
| 297 | 22.060 | 22.050 | 22.081 | VV | 315 | 3136 | 0.04% | 0.002% |

Sum of corrected areas: 139315657

Aliphatic EPH 111424.M Tue Nov 19 05:25:30 2024

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | EX-4-TPH-6MS | | SDG No.: | P4860 | |
| Lab Sample ID: | P4839-22MS | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 89.5 | |
| Sample Wt/Vol: | 30.03 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048770.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.32 | | 0.34 | 0.74 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 14.1 | | 0.38 | 1.12 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 23.4 | | 1.07 | 1.86 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 37.8 | | 2.23 | 2.98 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 51.1 | | 40 - 140 | 102% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 50.7 | | 40 - 140 | 101% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 38.8 | | 40 - 140 | 78% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4839-22MS | Acq On: | 18 Nov 2024 23:41 |
| Client Sample ID: | EX-4-TPH-6MS | Operator: | YP/AJ |
| Data file: | FD048770.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 71 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 16308142 | 84.93 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 36396082 | 189.111 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 58340240 | 313.987 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 79817186 | 507.643 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 190861650 | 1100 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.364 | 7.364 | 9001948 | 51.13 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.214 | 8.214 | 5843108 | 50.73 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.251 | 11.251 | 7463900 | 38.81 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048770.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.364 | 9001948 | 51.130 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 102.26% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.214 | 5843108 | 50.735 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 101.47% |
| 11) S | ortho-Terphenyl (SURR) | 11.251 | 7463900 | 38.807 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 77.61% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.185 | 6948117 | 36.868 ug/mlm |
| 2) T | Naphthalene (C11.7) | 5.703 | 8101596 | 41.425 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.750 | 8006402 | 41.895 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.017 | 9255342 | 47.726 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.314 | 9891892 | 51.428 ug/ml |
| 8) T | Flouorene (C16.55) | 9.093 | 9942337 | 51.823 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.481 | 10157412 | 55.413 ug/ml |
| 10) T | Anthracene (C19.43) | 10.558 | 10090846 | 53.884 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.288 | 10604950 | 57.912 ug/mlm |
| 13) T | Pyrene (C20.8) | 12.582 | 10226486 | 56.564 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.451 | 9677620 | 58.830 ug/ml |
| 15) T | Chrysene (C27.41) | 14.495 | 9518979 | 54.390 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.000 | 9185774 | 58.464 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.035 | 9081131 | 55.645 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.377 | 8609948 | 57.747 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.744 | 8635216 | 69.904 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.781 | 8125990 | 51.819 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.997 | 8209382 | 57.534 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048770.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

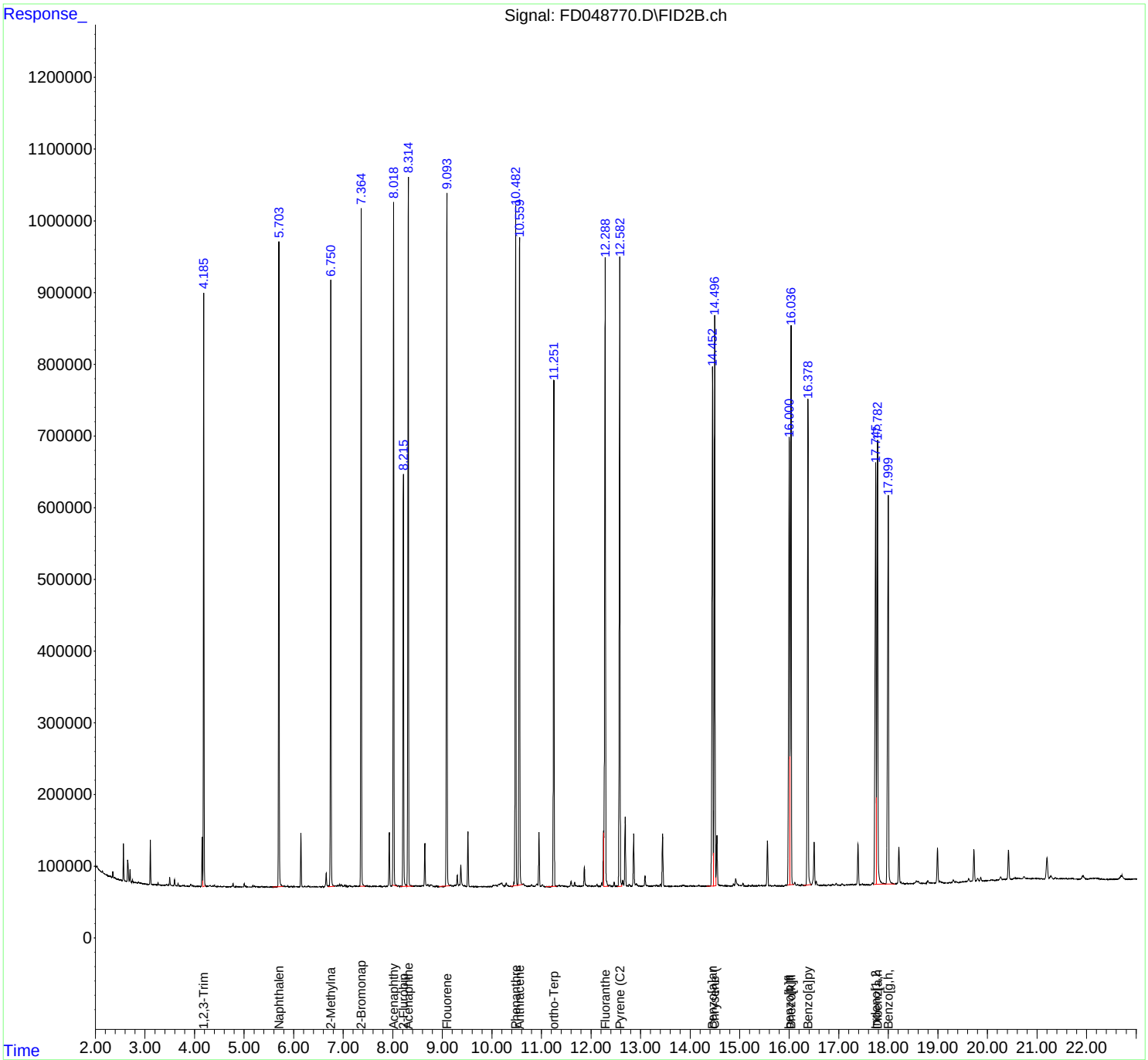
**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048770.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 23:41
Sample : P4839-22MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.106 | 4.091 | 4.127 | PV | 401 | 3987 | 0.04% | 0.002% |
| 2 | 4.154 | 4.127 | 4.167 | PV | 69382 | 599461 | 5.71% | 0.289% |
| 3 | 4.185 | 4.167 | 4.247 | VV | 826558 | 6990242 | 66.63% | 3.369% |
| 4 | 4.263 | 4.247 | 4.281 | VV | 1261 | 17627 | 0.17% | 0.008% |
| 5 | 4.316 | 4.281 | 4.339 | VV | 2051 | 42096 | 0.40% | 0.020% |
| 6 | 4.349 | 4.339 | 4.355 | VV | 544 | 4299 | 0.04% | 0.002% |
| 7 | 4.374 | 4.355 | 4.388 | VV | 1603 | 17276 | 0.16% | 0.008% |
| 8 | 4.403 | 4.388 | 4.422 | VV | 2314 | 22664 | 0.22% | 0.011% |
| 9 | 4.442 | 4.422 | 4.458 | VV | 409 | 5595 | 0.05% | 0.003% |
| 10 | 4.473 | 4.458 | 4.483 | VV | 725 | 6871 | 0.07% | 0.003% |
| 11 | 4.499 | 4.483 | 4.506 | VV | 601 | 6405 | 0.06% | 0.003% |
| 12 | 4.517 | 4.506 | 4.522 | VV | 711 | 5412 | 0.05% | 0.003% |
| 13 | 4.525 | 4.522 | 4.536 | VV | 583 | 3899 | 0.04% | 0.002% |
| 14 | 4.540 | 4.536 | 4.554 | VV | 317 | 2852 | 0.03% | 0.001% |
| 15 | 4.566 | 4.554 | 4.575 | VV | 457 | 4236 | 0.04% | 0.002% |
| 16 | 4.593 | 4.575 | 4.638 | VV | 1047 | 21116 | 0.20% | 0.010% |
| 17 | 4.676 | 4.651 | 4.681 | VV | 259 | 2776 | 0.03% | 0.001% |
| 18 | 4.705 | 4.681 | 4.729 | VV | 465 | 8344 | 0.08% | 0.004% |
| 19 | 4.753 | 4.729 | 4.758 | VV | 951 | 10165 | 0.10% | 0.005% |
| 20 | 4.777 | 4.758 | 4.804 | VV | 5146 | 60258 | 0.57% | 0.029% |
| 21 | 4.833 | 4.804 | 4.845 | PV | 1208 | 14544 | 0.14% | 0.007% |
| 22 | 4.858 | 4.845 | 4.879 | VV | 1107 | 13584 | 0.13% | 0.007% |
| 23 | 4.881 | 4.879 | 4.905 | VV | 475 | 5617 | 0.05% | 0.003% |
| 24 | 4.911 | 4.905 | 4.929 | VV | 388 | 3483 | 0.03% | 0.002% |
| 25 | 4.940 | 4.929 | 4.953 | VV | 344 | 3198 | 0.03% | 0.002% |
| 26 | 4.967 | 4.953 | 4.979 | VV | 524 | 5337 | 0.05% | 0.003% |
| 27 | 5.002 | 4.979 | 5.029 | VV | 4786 | 56144 | 0.54% | 0.027% |
| 28 | 5.037 | 5.029 | 5.071 | VV | 1020 | 15611 | 0.15% | 0.008% |
| 29 | 5.077 | 5.071 | 5.091 | VV | 272 | 2848 | 0.03% | 0.001% |
| 30 | 5.097 | 5.091 | 5.103 | VV | 280 | 1523 | 0.01% | 0.001% |
| 31 | 5.108 | 5.103 | 5.116 | VV | 329 | 2009 | 0.02% | 0.001% |
| 32 | 5.120 | 5.116 | 5.128 | VV | 264 | 1175 | 0.01% | 0.001% |
| 33 | 5.141 | 5.128 | 5.147 | PV | 337 | 2455 | 0.02% | 0.001% |
| 34 | 5.150 | 5.147 | 5.157 | VV | 255 | 1277 | 0.01% | 0.001% |
| 35 | 5.176 | 5.157 | 5.195 | VV | 2503 | 31011 | 0.30% | 0.015% |
| 36 | 5.214 | 5.195 | 5.235 | VV | 2030 | 28551 | 0.27% | 0.014% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.244 | 5.235 | 5.250 | VV | 720 | 5094 | 0.05% | 0.002% |
| 38 | 5.255 | 5.250 | 5.262 | VV | 729 | 4097 | | |
| 39 | 5.271 | 5.262 | 5.303 | VV | 722 | 10024 | | |
| 40 | 5.364 | 5.303 | 5.390 | VV | 1143 | 28869 | | |
| 41 | 5.412 | 5.390 | 5.434 | VV | 741 | 10135 | | |
| 42 | 5.449 | 5.434 | 5.460 | VV | 855 | 10018 | | |
| 43 | 5.463 | 5.460 | 5.488 | VV | 711 | 5149 | 0.05% | 0.002% |
| 44 | 5.499 | 5.488 | 5.515 | PV | 321 | 3130 | 0.03% | 0.002% |
| 45 | 5.530 | 5.515 | 5.547 | VV | 515 | 6371 | 0.06% | 0.003% |
| 46 | 5.557 | 5.547 | 5.565 | VV | 352 | 2416 | 0.02% | 0.001% |
| 47 | 5.576 | 5.565 | 5.581 | VV | 385 | 2694 | 0.03% | 0.001% |
| 48 | 5.585 | 5.581 | 5.596 | VV | 290 | 1778 | 0.02% | 0.001% |
| 49 | 5.666 | 5.607 | 5.674 | VV | 726 | 17748 | 0.17% | 0.009% |
| 50 | 5.703 | 5.674 | 5.785 | VV | 902360 | 8170451 | 77.88% | 3.938% |
| 51 | 5.789 | 5.785 | 5.794 | VV | 1243 | 6220 | 0.06% | 0.003% |
| 52 | 5.811 | 5.794 | 5.829 | VV | 2020 | 30433 | 0.29% | 0.015% |
| 53 | 5.846 | 5.829 | 5.862 | VV | 1082 | 19271 | 0.18% | 0.009% |
| 54 | 5.882 | 5.862 | 5.903 | VV | 1878 | 30085 | 0.29% | 0.015% |
| 55 | 5.906 | 5.903 | 5.910 | VV | 536 | 2473 | 0.02% | 0.001% |
| 56 | 5.928 | 5.910 | 5.938 | VV | 1067 | 14166 | 0.14% | 0.007% |
| 57 | 5.947 | 5.938 | 5.960 | VV | 1208 | 13616 | 0.13% | 0.007% |
| 58 | 5.964 | 5.960 | 5.990 | VV | 968 | 13308 | 0.13% | 0.006% |
| 59 | 6.003 | 5.990 | 6.019 | VV | 1490 | 16295 | 0.16% | 0.008% |
| 60 | 6.026 | 6.019 | 6.035 | VV | 654 | 5875 | 0.06% | 0.003% |
| 61 | 6.039 | 6.035 | 6.054 | VV | 686 | 6677 | 0.06% | 0.003% |
| 62 | 6.070 | 6.054 | 6.110 | VV | 973 | 24851 | 0.24% | 0.012% |
| 63 | 6.148 | 6.110 | 6.200 | VV | 75643 | 726080 | 6.92% | 0.350% |
| 64 | 6.229 | 6.200 | 6.246 | VV | 1318 | 21812 | 0.21% | 0.011% |
| 65 | 6.267 | 6.246 | 6.278 | VV | 1037 | 12131 | 0.12% | 0.006% |
| 66 | 6.296 | 6.278 | 6.320 | VV | 1857 | 28419 | 0.27% | 0.014% |
| 67 | 6.331 | 6.320 | 6.348 | VV | 1106 | 10368 | 0.10% | 0.005% |
| 68 | 6.368 | 6.348 | 6.400 | VV | 1007 | 17384 | 0.17% | 0.008% |
| 69 | 6.415 | 6.400 | 6.436 | VV | 1280 | 15311 | 0.15% | 0.007% |
| 70 | 6.454 | 6.436 | 6.474 | VV | 712 | 11659 | 0.11% | 0.006% |
| 71 | 6.488 | 6.474 | 6.502 | VV | 581 | 6459 | 0.06% | 0.003% |
| 72 | 6.516 | 6.502 | 6.525 | VV | 736 | 7876 | 0.08% | 0.004% |
| 73 | 6.531 | 6.525 | 6.553 | VV | 811 | 7615 | 0.07% | 0.004% |
| 74 | 6.586 | 6.553 | 6.605 | VV | 1082 | 17217 | 0.16% | 0.008% |
| 75 | 6.657 | 6.605 | 6.697 | VV | 20052 | 255243 | 2.43% | 0.123% |
| 76 | 6.710 | 6.697 | 6.717 | VV | 2183 | 22637 | 0.22% | 0.011% |
| 77 | 6.751 | 6.717 | 6.829 | VV | 845127 | 8065523 | 76.88% | 3.888% |
| 78 | 6.843 | 6.829 | 6.863 | VV | 1945 | 32713 | 0.31% | 0.016% |
| 79 | 6.869 | 6.863 | 6.873 | VV | 1458 | 8589 | 0.08% | 0.004% |
| 80 | 6.888 | 6.873 | 6.907 | VV | 3035 | 43112 | 0.41% | 0.021% |
| 81 | 6.923 | 6.907 | 6.937 | VV | 3928 | 46220 | 0.44% | 0.022% |
| 82 | 6.953 | 6.937 | 6.967 | VV | 3625 | 48619 | 0.46% | 0.023% |
| 83 | 6.976 | 6.967 | 7.011 | VV | 2478 | 44882 | 0.43% | 0.022% |
| 84 | 7.031 | 7.011 | 7.050 | VV | 3406 | 48904 | 0.47% | 0.024% |
| 85 | 7.061 | 7.050 | 7.082 | VV | 1748 | 25971 | 0.25% | 0.013% |
| 86 | 7.094 | 7.082 | 7.098 | VV | 1153 | 10431 | 0.10% | 0.005% |
| 87 | 7.130 | 7.098 | 7.147 | VV | 2230 | 47519 | 0.45% | 0.023% |
| 88 | 7.153 | 7.147 | 7.195 | VV | 1479 | 28371 | 0.27% | 0.014% |
| 89 | 7.228 | 7.195 | 7.263 | VV | 2167 | 51811 | 0.49% | 0.025% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.278 | 7.263 | 7.304 | VV | 1680 | 30488 | 0.29% | 0.015% |
| 91 | 7.324 | 7.304 | 7.337 | VV | 2106 | 28664 | | |
| 92 | 7.364 | 7.337 | 7.448 | VV | 945613 | 9078064 | 86 | |
| 93 | 7.485 | 7.448 | 7.510 | VV | 1808 | 55622 | | |
| 94 | 7.519 | 7.510 | 7.541 | VV | 1446 | 21599 | | |
| 95 | 7.547 | 7.541 | 7.571 | VV | 1053 | 16606 | | |
| 96 | 7.598 | 7.571 | 7.606 | VV | 1144 | 21055 | 0.20% | 0.010% |
| 97 | 7.627 | 7.606 | 7.651 | VV | 1594 | 32202 | 0.31% | 0.016% |
| 98 | 7.655 | 7.651 | 7.665 | VV | 1030 | 7882 | 0.08% | 0.004% |
| 99 | 7.679 | 7.665 | 7.697 | VV | 1377 | 19269 | 0.18% | 0.009% |
| 100 | 7.721 | 7.697 | 7.735 | VV | 1140 | 22180 | 0.21% | 0.011% |
| 101 | 7.752 | 7.735 | 7.784 | VV | 1712 | 32908 | 0.31% | 0.016% |
| 102 | 7.788 | 7.784 | 7.790 | VV | 805 | 2948 | 0.03% | 0.001% |
| 103 | 7.796 | 7.790 | 7.803 | VV | 926 | 6648 | 0.06% | 0.003% |
| 104 | 7.829 | 7.803 | 7.859 | VV | 1535 | 37415 | 0.36% | 0.018% |
| 105 | 7.876 | 7.859 | 7.893 | VV | 1583 | 23654 | 0.23% | 0.011% |
| 106 | 7.931 | 7.893 | 7.969 | VV | 76410 | 815483 | 7.77% | 0.393% |
| 107 | 8.018 | 7.969 | 8.096 | VV | 958450 | 9408645 | 89.69% | 4.535% |
| 108 | 8.113 | 8.096 | 8.148 | VV | 2115 | 45106 | 0.43% | 0.022% |
| 109 | 8.164 | 8.148 | 8.184 | VV | 1441 | 22587 | 0.22% | 0.011% |
| 110 | 8.215 | 8.184 | 8.265 | VV | 576342 | 5865155 | 55.91% | 2.827% |
| 111 | 8.274 | 8.265 | 8.283 | VV | 3222 | 31571 | 0.30% | 0.015% |
| 112 | 8.315 | 8.283 | 8.370 | VV | 992455 | 9950280 | 94.85% | 4.796% |
| 113 | 8.383 | 8.370 | 8.407 | VV | 1744 | 34868 | 0.33% | 0.017% |
| 114 | 8.411 | 8.407 | 8.435 | VV | 1497 | 23321 | 0.22% | 0.011% |
| 115 | 8.437 | 8.435 | 8.446 | VV | 1441 | 8304 | 0.08% | 0.004% |
| 116 | 8.476 | 8.446 | 8.504 | VV | 2297 | 58719 | 0.56% | 0.028% |
| 117 | 8.526 | 8.504 | 8.542 | VV | 1832 | 32709 | 0.31% | 0.016% |
| 118 | 8.560 | 8.542 | 8.572 | VV | 1775 | 29345 | 0.28% | 0.014% |
| 119 | 8.575 | 8.572 | 8.584 | VV | 1736 | 11012 | 0.10% | 0.005% |
| 120 | 8.600 | 8.584 | 8.623 | VV | 2194 | 42750 | 0.41% | 0.021% |
| 121 | 8.648 | 8.623 | 8.677 | VV | 61339 | 640134 | 6.10% | 0.309% |
| 122 | 8.683 | 8.677 | 8.698 | VV | 2527 | 30386 | 0.29% | 0.015% |
| 123 | 8.711 | 8.698 | 8.734 | VV | 3801 | 58761 | 0.56% | 0.028% |
| 124 | 8.761 | 8.734 | 8.774 | VV | 3423 | 60819 | 0.58% | 0.029% |
| 125 | 8.787 | 8.774 | 8.820 | VV | 3346 | 56534 | 0.54% | 0.027% |
| 126 | 8.831 | 8.820 | 8.861 | VV | 1239 | 21161 | 0.20% | 0.010% |
| 127 | 8.881 | 8.861 | 8.907 | VV | 1615 | 26324 | 0.25% | 0.013% |
| 128 | 8.925 | 8.907 | 8.956 | VV | 843 | 18060 | 0.17% | 0.009% |
| 129 | 8.965 | 8.956 | 8.971 | VV | 524 | 4329 | 0.04% | 0.002% |
| 130 | 8.993 | 8.971 | 9.003 | VV | 867 | 12922 | 0.12% | 0.006% |
| 131 | 9.015 | 9.003 | 9.034 | VV | 874 | 12483 | 0.12% | 0.006% |
| 132 | 9.042 | 9.034 | 9.057 | VV | 839 | 10173 | 0.10% | 0.005% |
| 133 | 9.093 | 9.057 | 9.153 | VV | 969161 | 10065289 | 95.94% | 4.851% |
| 134 | 9.172 | 9.153 | 9.197 | VV | 2668 | 55708 | 0.53% | 0.027% |
| 135 | 9.203 | 9.197 | 9.217 | VV | 1538 | 17218 | 0.16% | 0.008% |
| 136 | 9.250 | 9.217 | 9.272 | VV | 2725 | 72275 | 0.69% | 0.035% |
| 137 | 9.302 | 9.272 | 9.332 | VV | 16623 | 230853 | 2.20% | 0.111% |
| 138 | 9.346 | 9.332 | 9.355 | VV | 3423 | 40744 | 0.39% | 0.020% |
| 139 | 9.375 | 9.355 | 9.437 | VV | 30992 | 435753 | 4.15% | 0.210% |
| 140 | 9.453 | 9.437 | 9.491 | VV | 2052 | 41210 | 0.39% | 0.020% |
| 141 | 9.518 | 9.491 | 9.553 | VV | 77426 | 821799 | 7.83% | 0.396% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 142 | 9.561 | 9.553 | 9.572 | VV | 494 | 5061 | 0.05% | 0.002% |
| 143 | 9.589 | 9.572 | 9.622 | VV | 832 | 19510 | | |
| 144 | 9.639 | 9.622 | 9.653 | VV | 706 | 10171 | | |
| 145 | 9.663 | 9.653 | 9.682 | VV | 755 | 9563 | | |
| 146 | 9.690 | 9.682 | 9.710 | VV | 709 | 7708 | | |
| 147 | 9.723 | 9.710 | 9.759 | VV | 689 | 13686 | | |
| 148 | 9.763 | 9.759 | 9.765 | VV | 423 | 1529 | 0.01% | 0.001% |
| 149 | 9.782 | 9.765 | 9.812 | VV | 736 | 14071 | 0.13% | 0.007% |
| 150 | 9.832 | 9.812 | 9.853 | VV | 707 | 12432 | 0.12% | 0.006% |
| 151 | 9.863 | 9.853 | 9.872 | VV | 576 | 5545 | 0.05% | 0.003% |
| 152 | 9.888 | 9.872 | 9.894 | VV | 682 | 6559 | 0.06% | 0.003% |
| 153 | 9.907 | 9.894 | 9.921 | VV | 805 | 9471 | 0.09% | 0.005% |
| 154 | 9.938 | 9.921 | 9.970 | VV | 947 | 19163 | 0.18% | 0.009% |
| 155 | 9.974 | 9.970 | 9.983 | VV | 685 | 3969 | 0.04% | 0.002% |
| 156 | 10.023 | 9.983 | 10.035 | VV | 2232 | 36489 | 0.35% | 0.018% |
| 157 | 10.047 | 10.035 | 10.052 | VV | 2180 | 20468 | 0.20% | 0.010% |
| 158 | 10.083 | 10.052 | 10.110 | VV | 2656 | 72313 | 0.69% | 0.035% |
| 159 | 10.139 | 10.110 | 10.152 | VV | 3896 | 72260 | 0.69% | 0.035% |
| 160 | 10.183 | 10.152 | 10.195 | VV | 5106 | 115933 | 1.11% | 0.056% |
| 161 | 10.203 | 10.195 | 10.265 | VV | 5348 | 111115 | 1.06% | 0.054% |
| 162 | 10.289 | 10.265 | 10.326 | VV | 5641 | 96873 | 0.92% | 0.047% |
| 163 | 10.330 | 10.326 | 10.355 | VV | 1612 | 19875 | 0.19% | 0.010% |
| 164 | 10.379 | 10.355 | 10.398 | VV | 1440 | 25456 | 0.24% | 0.012% |
| 165 | 10.407 | 10.398 | 10.412 | VV | 460 | 3659 | 0.03% | 0.002% |
| 166 | 10.445 | 10.412 | 10.450 | VV | 6746 | 62444 | 0.60% | 0.030% |
| 167 | 10.482 | 10.450 | 10.524 | VV | 949052 | 10228770 | 97.50% | 4.930% |
| 168 | 10.559 | 10.524 | 10.614 | VV | 904484 | 10254200 | 97.75% | 4.942% |
| 169 | 10.634 | 10.614 | 10.697 | VV | 4417 | 139797 | 1.33% | 0.067% |
| 170 | 10.703 | 10.697 | 10.721 | VV | 1255 | 15774 | 0.15% | 0.008% |
| 171 | 10.755 | 10.721 | 10.770 | VV | 1646 | 35215 | 0.34% | 0.017% |
| 172 | 10.802 | 10.770 | 10.850 | VV | 3316 | 76558 | 0.73% | 0.037% |
| 173 | 10.855 | 10.850 | 10.862 | VV | 741 | 5050 | 0.05% | 0.002% |
| 174 | 10.911 | 10.862 | 10.928 | VV | 4094 | 98886 | 0.94% | 0.048% |
| 175 | 10.952 | 10.928 | 10.986 | VV | 76320 | 866050 | 8.26% | 0.417% |
| 176 | 11.020 | 10.986 | 11.059 | VV | 3050 | 69060 | 0.66% | 0.033% |
| 177 | 11.068 | 11.059 | 11.085 | VV | 580 | 7512 | 0.07% | 0.004% |
| 178 | 11.096 | 11.085 | 11.123 | VV | 520 | 7527 | 0.07% | 0.004% |
| 179 | 11.139 | 11.123 | 11.159 | PV | 438 | 6344 | 0.06% | 0.003% |
| 180 | 11.251 | 11.172 | 11.310 | VV | 706139 | 7530784 | 71.79% | 3.630% |
| 181 | 11.331 | 11.310 | 11.342 | VV | 1666 | 24836 | 0.24% | 0.012% |
| 182 | 11.364 | 11.342 | 11.383 | VV | 2632 | 44803 | 0.43% | 0.022% |
| 183 | 11.418 | 11.383 | 11.446 | VV | 2011 | 52951 | 0.50% | 0.026% |
| 184 | 11.466 | 11.446 | 11.488 | VV | 1531 | 25397 | 0.24% | 0.012% |
| 185 | 11.496 | 11.488 | 11.537 | VV | 991 | 16185 | 0.15% | 0.008% |
| 186 | 11.544 | 11.537 | 11.549 | VV | 468 | 2752 | 0.03% | 0.001% |
| 187 | 11.599 | 11.549 | 11.648 | VV | 7474 | 136136 | 1.30% | 0.066% |
| 188 | 11.671 | 11.648 | 11.691 | VV | 6192 | 80794 | 0.77% | 0.039% |
| 189 | 11.698 | 11.691 | 11.699 | VV | 1551 | 7220 | 0.07% | 0.003% |
| 190 | 11.704 | 11.699 | 11.732 | VV | 1723 | 21768 | 0.21% | 0.010% |
| 191 | 11.771 | 11.732 | 11.795 | VV | 1358 | 35000 | 0.33% | 0.017% |
| 192 | 11.835 | 11.795 | 11.844 | VV | 1598 | 32405 | 0.31% | 0.016% |
| 193 | 11.867 | 11.844 | 11.932 | VV | 27773 | 376206 | 3.59% | 0.181% |
| 194 | 11.947 | 11.932 | 11.964 | VV | 1633 | 24832 | 0.24% | 0.012% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 195 | 11.972 | 11.964 | 12.003 | VV | 1302 | 23074 | 0.22% | 0.011% |
| 196 | 12.026 | 12.003 | 12.056 | VV | 1267 | 28779 | | |
| 197 | 12.083 | 12.056 | 12.102 | VV | 1145 | 23947 | | |
| 198 | 12.120 | 12.102 | 12.150 | VV | 3255 | 44598 | | |
| 199 | 12.155 | 12.150 | 12.171 | VV | 548 | 5478 | | |
| 200 | 12.194 | 12.171 | 12.199 | VV | 1239 | 14235 | | |
| 201 | 12.216 | 12.199 | 12.229 | VV | 5308 | 55867 | 0.53% | 0.027% |
| 202 | 12.255 | 12.229 | 12.260 | VV | 77809 | 737427 | 7.03% | 0.355% |
| 203 | 12.288 | 12.260 | 12.355 | VV | 881161 | 10490734 | 100.00% | 5.056% |
| 204 | 12.381 | 12.355 | 12.443 | VV | 2547 | 58116 | 0.55% | 0.028% |
| 205 | 12.467 | 12.443 | 12.493 | VV | 6318 | 77307 | 0.74% | 0.037% |
| 206 | 12.500 | 12.493 | 12.540 | VV | 1048 | 16513 | 0.16% | 0.008% |
| 207 | 12.582 | 12.540 | 12.620 | VV | 877382 | 10248363 | 97.69% | 4.940% |
| 208 | 12.639 | 12.620 | 12.663 | VV | 8697 | 132677 | 1.26% | 0.064% |
| 209 | 12.690 | 12.663 | 12.720 | VV | 97174 | 1123222 | 10.71% | 0.541% |
| 210 | 12.729 | 12.720 | 12.742 | VV | 1202 | 13977 | 0.13% | 0.007% |
| 211 | 12.773 | 12.742 | 12.816 | VV | 3361 | 68875 | 0.66% | 0.033% |
| 212 | 12.822 | 12.816 | 12.829 | VV | 830 | 5444 | 0.05% | 0.003% |
| 213 | 12.862 | 12.829 | 12.900 | VV | 73787 | 916597 | 8.74% | 0.442% |
| 214 | 12.915 | 12.900 | 12.966 | VV | 4082 | 86086 | 0.82% | 0.041% |
| 215 | 12.970 | 12.966 | 12.990 | VV | 953 | 12421 | 0.12% | 0.006% |
| 216 | 12.994 | 12.990 | 13.015 | VV | 760 | 9463 | 0.09% | 0.005% |
| 217 | 13.090 | 13.015 | 13.164 | VV | 15007 | 243786 | 2.32% | 0.118% |
| 218 | 13.171 | 13.164 | 13.190 | VV | 719 | 9987 | 0.10% | 0.005% |
| 219 | 13.202 | 13.190 | 13.208 | VV | 753 | 7674 | 0.07% | 0.004% |
| 220 | 13.213 | 13.208 | 13.224 | VV | 726 | 6377 | 0.06% | 0.003% |
| 221 | 13.231 | 13.224 | 13.247 | VV | 816 | 9908 | 0.09% | 0.005% |
| 222 | 13.266 | 13.247 | 13.278 | VV | 1350 | 19098 | 0.18% | 0.009% |
| 223 | 13.282 | 13.278 | 13.295 | VV | 1114 | 10429 | 0.10% | 0.005% |
| 224 | 13.316 | 13.295 | 13.345 | VV | 1906 | 35062 | 0.33% | 0.017% |
| 225 | 13.353 | 13.345 | 13.370 | VV | 922 | 11458 | 0.11% | 0.006% |
| 226 | 13.398 | 13.370 | 13.416 | VV | 3245 | 46327 | 0.44% | 0.022% |
| 227 | 13.444 | 13.416 | 13.499 | VV | 73733 | 874708 | 8.34% | 0.422% |
| 228 | 13.505 | 13.499 | 13.519 | VV | 445 | 3960 | 0.04% | 0.002% |
| 229 | 13.540 | 13.519 | 13.581 | VV | 626 | 12402 | 0.12% | 0.006% |
| 230 | 13.594 | 13.581 | 13.614 | VV | 201 | 2069 | 0.02% | 0.001% |
| 231 | 13.639 | 13.627 | 13.646 | VV | 284 | 2376 | 0.02% | 0.001% |
| 232 | 13.702 | 13.646 | 13.733 | VV | 564 | 17230 | 0.16% | 0.008% |
| 233 | 13.743 | 13.733 | 13.760 | VV | 309 | 2849 | 0.03% | 0.001% |
| 234 | 13.767 | 13.760 | 13.772 | VV | 267 | 1479 | 0.01% | 0.001% |
| 235 | 13.802 | 13.772 | 13.817 | VV | 925 | 15632 | 0.15% | 0.008% |
| 236 | 13.834 | 13.817 | 13.862 | VV | 1187 | 25343 | 0.24% | 0.012% |
| 237 | 13.877 | 13.862 | 13.914 | VV | 1676 | 32073 | 0.31% | 0.015% |
| 238 | 13.926 | 13.914 | 13.941 | VV | 466 | 4760 | 0.05% | 0.002% |
| 239 | 13.953 | 13.941 | 13.967 | VV | 409 | 3718 | 0.04% | 0.002% |
| 240 | 13.971 | 13.967 | 13.979 | VV | 318 | 1778 | 0.02% | 0.001% |
| 241 | 14.002 | 13.979 | 14.030 | VV | 1261 | 20468 | 0.20% | 0.010% |
| 242 | 14.034 | 14.030 | 14.052 | VV | 377 | 3919 | 0.04% | 0.002% |
| 243 | 14.066 | 14.052 | 14.111 | VV | 981 | 18626 | 0.18% | 0.009% |
| 244 | 14.125 | 14.111 | 14.147 | VV | 516 | 7335 | 0.07% | 0.004% |
| 245 | 14.172 | 14.147 | 14.199 | VV | 1348 | 22267 | 0.21% | 0.011% |
| 246 | 14.214 | 14.199 | 14.235 | VV | 505 | 8088 | 0.08% | 0.004% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual IntegrationsAPPROVED**

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Supervised By :Ankita Jodhani 11/19/2024

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 14.241 | 14.235 | 14.252 | VV | 456 | 3915 | 0.04% | 0.002% |
| 248 | 14.258 | 14.252 | 14.274 | VV | 368 | 3586 | | |
| 249 | 14.284 | 14.274 | 14.294 | VV | 332 | 3031 | | |
| 250 | 14.313 | 14.294 | 14.320 | VV | 462 | 5784 | | |
| 251 | 14.326 | 14.320 | 14.335 | VV | 411 | 2324 | | |
| 252 | 14.345 | 14.335 | 14.363 | VV | 590 | 6119 | | |
| 253 | 14.381 | 14.363 | 14.404 | VV | 816 | 12402 | 0.12% | 0.006% |
| 254 | 14.452 | 14.404 | 14.469 | VV | 723073 | 9677506 | 92.25% | 4.664% |
| 255 | 14.496 | 14.469 | 14.520 | VV | 799606 | 9543731 | 90.97% | 4.600% |
| 256 | 14.540 | 14.520 | 14.637 | VV | 70960 | 972858 | 9.27% | 0.469% |
| 257 | 14.648 | 14.637 | 14.652 | VV | 929 | 7347 | 0.07% | 0.004% |
| 258 | 14.655 | 14.652 | 14.677 | VV | 773 | 8260 | 0.08% | 0.004% |
| 259 | 14.686 | 14.677 | 14.699 | VV | 599 | 6543 | 0.06% | 0.003% |
| 260 | 14.716 | 14.699 | 14.756 | VV | 874 | 19824 | 0.19% | 0.010% |
| 261 | 14.782 | 14.756 | 14.813 | VV | 518 | 10958 | 0.10% | 0.005% |
| 262 | 14.837 | 14.813 | 14.844 | VV | 384 | 4370 | 0.04% | 0.002% |
| 263 | 14.873 | 14.844 | 14.893 | VV | 3461 | 44989 | 0.43% | 0.022% |
| 264 | 14.918 | 14.893 | 15.035 | VV | 10267 | 252802 | 2.41% | 0.122% |
| 265 | 15.067 | 15.035 | 15.091 | VV | 3985 | 64832 | 0.62% | 0.031% |
| 266 | 15.107 | 15.091 | 15.130 | VV | 502 | 7793 | 0.07% | 0.004% |
| 267 | 15.136 | 15.130 | 15.159 | VV | 245 | 2748 | 0.03% | 0.001% |
| 268 | 15.164 | 15.159 | 15.181 | VV | 609 | 4830 | 0.05% | 0.002% |
| 269 | 15.191 | 15.181 | 15.209 | VV | 664 | 7923 | 0.08% | 0.004% |
| 270 | 15.215 | 15.209 | 15.224 | VV | 552 | 4187 | 0.04% | 0.002% |
| 271 | 15.228 | 15.224 | 15.239 | VV | 488 | 3768 | 0.04% | 0.002% |
| 272 | 15.257 | 15.239 | 15.292 | VV | 903 | 16110 | 0.15% | 0.008% |
| 273 | 15.301 | 15.292 | 15.309 | VV | 448 | 3539 | 0.03% | 0.002% |
| 274 | 15.313 | 15.309 | 15.333 | VV | 421 | 3987 | 0.04% | 0.002% |
| 275 | 15.381 | 15.333 | 15.405 | VV | 1057 | 23584 | 0.22% | 0.011% |
| 276 | 15.427 | 15.405 | 15.431 | VV | 596 | 7654 | 0.07% | 0.004% |
| 277 | 15.437 | 15.431 | 15.450 | VV | 690 | 7151 | 0.07% | 0.003% |
| 278 | 15.451 | 15.450 | 15.466 | VV | 662 | 4547 | 0.04% | 0.002% |
| 279 | 15.481 | 15.466 | 15.500 | VV | 578 | 7695 | 0.07% | 0.004% |
| 280 | 15.559 | 15.500 | 15.594 | VV | 63222 | 817695 | 7.79% | 0.394% |
| 281 | 15.606 | 15.594 | 15.610 | VV | 488 | 4005 | 0.04% | 0.002% |
| 282 | 15.620 | 15.610 | 15.665 | VV | 515 | 8275 | 0.08% | 0.004% |
| 283 | 15.711 | 15.677 | 15.745 | VV | 1025 | 18422 | 0.18% | 0.009% |
| 284 | 15.760 | 15.753 | 15.780 | VV | 280 | 3357 | 0.03% | 0.002% |
| 285 | 15.796 | 15.790 | 15.802 | VV | 307 | 1311 | 0.01% | 0.001% |
| 286 | 15.822 | 15.802 | 15.828 | PV | 237 | 2414 | 0.02% | 0.001% |
| 287 | 15.837 | 15.828 | 15.850 | VV | 298 | 2318 | 0.02% | 0.001% |
| 288 | 15.859 | 15.850 | 15.895 | VV | 258 | 5315 | 0.05% | 0.003% |
| 289 | 15.933 | 15.895 | 15.955 | VV | 1537 | 31478 | 0.30% | 0.015% |
| 290 | 16.000 | 15.955 | 16.015 | VV | 626292 | 9192845 | 87.63% | 4.431% |
| 291 | 16.036 | 16.015 | 16.092 | VV | 784162 | 9199319 | 87.69% | 4.434% |
| 292 | 16.111 | 16.092 | 16.146 | VV | 5080 | 82759 | 0.79% | 0.040% |
| 293 | 16.167 | 16.146 | 16.207 | VV | 1988 | 41315 | 0.39% | 0.020% |
| 294 | 16.214 | 16.207 | 16.232 | VV | 692 | 9803 | 0.09% | 0.005% |
| 295 | 16.253 | 16.232 | 16.283 | VV | 1815 | 31541 | 0.30% | 0.015% |
| 296 | 16.286 | 16.283 | 16.314 | VV | 637 | 8322 | 0.08% | 0.004% |
| 297 | 16.378 | 16.314 | 16.445 | VV | 679661 | 8696987 | 82.90% | 4.192% |
| 298 | 16.501 | 16.445 | 16.527 | VV | 60893 | 895067 | 8.53% | 0.431% |
| 299 | 16.543 | 16.527 | 16.568 | VV | 6377 | 86402 | 0.82% | 0.042% |

**Instrument :**
FID_D
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EX-4-TPH-6MS

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rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 16.573 | 16.568 | 16.604 | VV | 981 | 13997 | 0.13% | 0.007% |
| 301 | 16.632 | 16.604 | 16.639 | VV | 500 | 8766 | | |
| 302 | 16.643 | 16.639 | 16.653 | VV | 514 | 3205 | | |
| 303 | 16.660 | 16.653 | 16.685 | VV | 539 | 7207 | | |
| 304 | 16.690 | 16.685 | 16.699 | VV | 548 | 3708 | | |
| 305 | 16.702 | 16.699 | 16.728 | VV | 464 | 4871 | | |
| 306 | 16.737 | 16.728 | 16.762 | PV | 273 | 2630 | 0.03% | 0.001% |
| 307 | 16.789 | 16.762 | 16.810 | VV | 1166 | 19818 | 0.19% | 0.010% |
| 308 | 16.815 | 16.810 | 16.839 | VV | 640 | 7426 | 0.07% | 0.004% |
| 309 | 16.870 | 16.839 | 16.895 | VV | 1407 | 28866 | 0.28% | 0.014% |
| 310 | 16.900 | 16.895 | 16.921 | VV | 674 | 8688 | 0.08% | 0.004% |
| 311 | 16.949 | 16.921 | 16.999 | VV | 2721 | 47100 | 0.45% | 0.023% |
| 312 | 17.003 | 16.999 | 17.009 | VV | 447 | 1402 | 0.01% | 0.001% |
| 313 | 17.031 | 17.009 | 17.039 | VV | 384 | 4517 | 0.04% | 0.002% |
| 314 | 17.068 | 17.039 | 17.114 | VV | 2132 | 38546 | 0.37% | 0.019% |
| 315 | 17.135 | 17.114 | 17.142 | VV | 490 | 5298 | 0.05% | 0.003% |
| 316 | 17.167 | 17.142 | 17.179 | VV | 577 | 9060 | 0.09% | 0.004% |
| 317 | 17.188 | 17.179 | 17.212 | VV | 474 | 6333 | 0.06% | 0.003% |
| 318 | 17.238 | 17.212 | 17.257 | VV | 725 | 14458 | 0.14% | 0.007% |
| 319 | 17.275 | 17.257 | 17.296 | VV | 1113 | 17439 | 0.17% | 0.008% |
| 320 | 17.303 | 17.296 | 17.321 | VV | 515 | 5958 | 0.06% | 0.003% |
| 321 | 17.334 | 17.321 | 17.341 | VV | 658 | 6076 | 0.06% | 0.003% |
| 322 | 17.387 | 17.341 | 17.448 | VV | 57183 | 768793 | 7.33% | 0.371% |
| 323 | 17.472 | 17.448 | 17.499 | VV | 1567 | 25283 | 0.24% | 0.012% |
| 324 | 17.505 | 17.499 | 17.517 | VV | 406 | 3331 | 0.03% | 0.002% |
| 325 | 17.526 | 17.517 | 17.546 | VV | 408 | 4244 | 0.04% | 0.002% |
| 326 | 17.569 | 17.546 | 17.610 | VV | 400 | 7396 | 0.07% | 0.004% |
| 327 | 17.617 | 17.610 | 17.632 | VV | 165 | 1103 | 0.01% | 0.001% |
| 328 | 17.680 | 17.645 | 17.700 | PV | 2906 | 45865 | 0.44% | 0.022% |
| 329 | 17.745 | 17.700 | 17.758 | VV | 588678 | 8606054 | 82.03% | 4.148% |
| 330 | 17.782 | 17.758 | 17.948 | VV | 620410 | 8235840 | 78.51% | 3.970% |
| 331 | 17.998 | 17.948 | 18.135 | VV | 542751 | 8240990 | 78.55% | 3.972% |
| 332 | 18.162 | 18.135 | 18.167 | PV | 100 | 1473 | 0.01% | 0.001% |

Sum of corrected areas: 207471975

Aromatic EPH 111424.M Tue Nov 19 06:20:54 2024

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | EX-4-TPH-6MSD | SDG No.: | P4860 |
| Lab Sample ID: | P4839-22MSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 89.5 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 0:17 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.66 | | 1 | 0.42 | 1.12 | mg/kg | FC067812.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 7.36 | | 1 | 0.27 | 0.74 | mg/kg | FC067812.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 10.6 | | 1 | 0.34 | 1.12 | mg/kg | FC067812.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 13.8 | | 1 | 0.89 | 1.49 | mg/kg | FC067812.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 26.0 | | 1 | 2.01 | 2.23 | mg/kg | FC067812.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.28 | | 1 | 0.34 | 0.74 | mg/kg | FD048771.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 15.1 | | 1 | 0.38 | 1.12 | mg/kg | FD048771.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 22.7 | | 1 | 1.07 | 1.86 | mg/kg | FD048771.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 37.6 | | 1 | 2.23 | 2.97 | mg/kg | FD048771.D |
| Total AliphaticEPH | Total AliphaticEPH | 65.4 | | | 3.93 | 6.70 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 81.7 | | | 4.01 | 6.69 | mg/kg | |
| Total EPH | Total EPH | 147 | | | 7.94 | 13.4 | mg/kg | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | EX-4-TPH-6MSD | SDG No.: | P4860 |
| Lab Sample ID: | P4839-22MSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 89.5 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067812.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.66 | | 0.42 | 1.12 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 7.36 | | 0.27 | 0.74 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 10.6 | | 0.34 | 1.12 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 13.8 | | 0.89 | 1.49 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 26.0 | | 2.01 | 2.23 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 38.3 | | 40 - 140 | 77% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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

# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4839-22MSD | Acq On: | 19 Nov 2024 00:17 |
| Client Sample ID: | EX-4-TPH-6MSD | Operator: | YP/AJ |
| Data file: | FC067812.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 22 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 17073606 | 102.982 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 16855603 | 98.927 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 24105998 | 142.116 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 29192307 | 185.607 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 42350168 | 349.68 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 129577682 | 879.313 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.929 | 12.929 | 5562605 | 38.32 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 87227514 | 529.632 | 1200 | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067812.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 12) S | 1-chlorooctadecane (S... | 12.929 | 5562605 | 38.320 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 76.64% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.273 | 4074678 | 24.981 ug/ml |
| 2) T | n-Decane (C10) | 4.335 | 5204612 | 31.385 ug/ml |
| 4) T | n-Dodecane (C12) | 6.349 | 6253642 | 37.129 ug/mlm |
| 6) T | n-Tetradecane (C14) | 8.141 | 7017284 | 41.901 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.740 | 7640714 | 44.090 ug/ml |
| 8) T | n-Octadecane (C18) | 11.180 | 7979596 | 45.354 ug/ml |
| 10) T | n-Eicosane (C20) | 12.488 | 7913424 | 46.996 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.099 | 7529880 | 45.764 ug/ml |
| 13) T | n-Docosane (C22) | 13.684 | 7418701 | 45.555 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.785 | 7224777 | 45.047 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.804 | 6985464 | 45.108 ug/ml |
| 16) T | n-Octacosane (C28) | 16.752 | 6781674 | 44.905 ug/ml |
| 17) T | n-Tricontane (C30) | 17.638 | 6578646 | 42.967 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.469 | 6357935 | 43.049 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.253 | 6213967 | 49.266 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.990 | 6022850 | 57.587 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.713 | 5944064 | 60.850 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.598 | 6006906 | 61.630 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067812.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

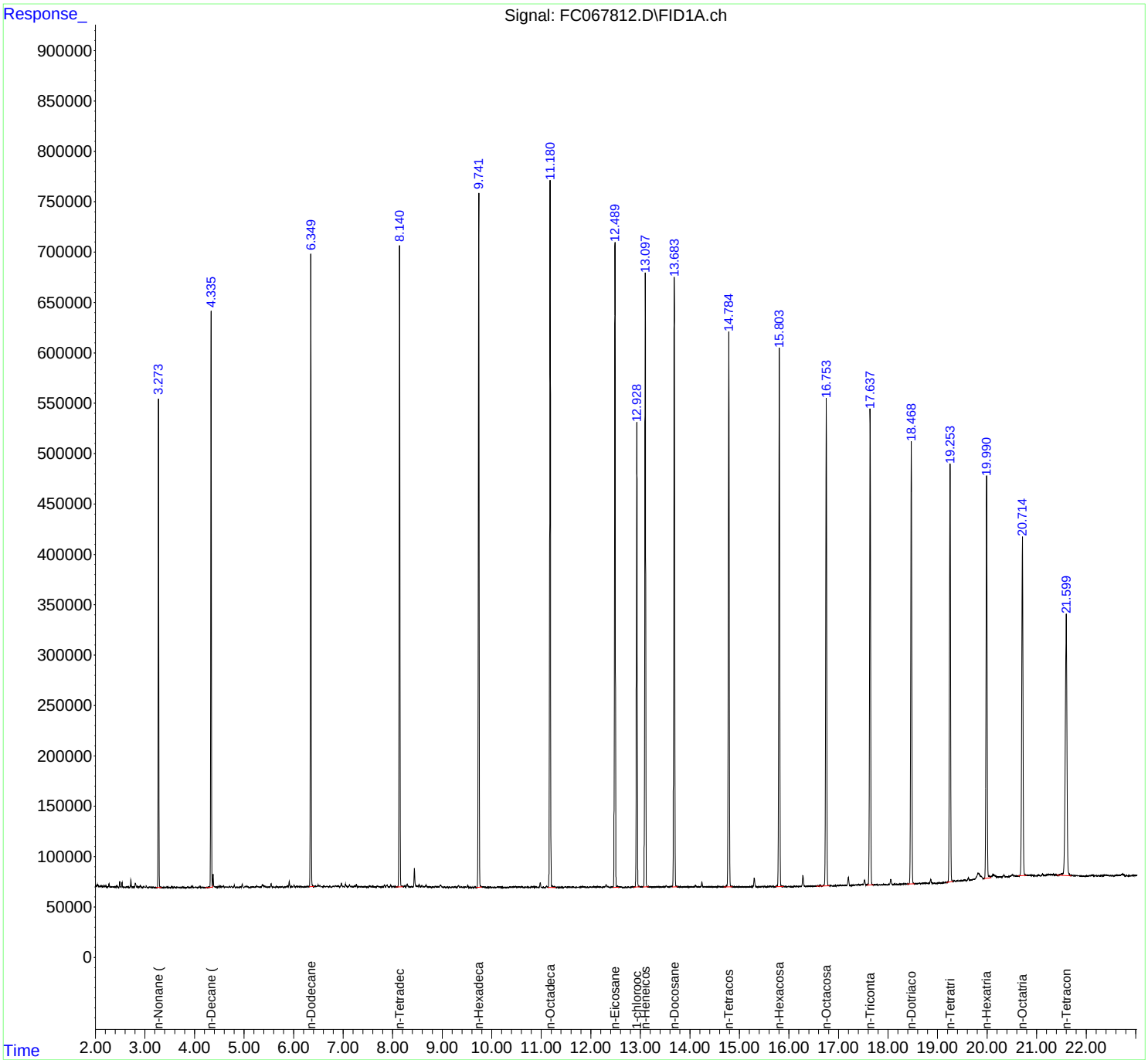
**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11182
Data File : FC067812.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:17
Sample : P4839-22MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.273 | 3.225 | 3.351 | BV | 481292 | 4079293 | 51.13% | 3.016% |
| 2 | 3.369 | 3.351 | 3.381 | VV | 269 | 2570 | 0.03% | 0.002% |
| 3 | 3.396 | 3.381 | 3.435 | VV | 541 | 8646 | 0.11% | 0.006% |
| 4 | 3.449 | 3.435 | 3.461 | VV | 413 | 4907 | 0.06% | 0.004% |
| 5 | 3.473 | 3.461 | 3.501 | VV | 515 | 5903 | 0.07% | 0.004% |
| 6 | 3.547 | 3.501 | 3.568 | VV | 726 | 12101 | 0.15% | 0.009% |
| 7 | 3.596 | 3.568 | 3.621 | VV | 636 | 11645 | 0.15% | 0.009% |
| 8 | 3.645 | 3.621 | 3.687 | VV | 494 | 13372 | 0.17% | 0.010% |
| 9 | 3.714 | 3.687 | 3.747 | VV | 412 | 11094 | 0.14% | 0.008% |
| 10 | 3.762 | 3.747 | 3.798 | VV | 561 | 9069 | 0.11% | 0.007% |
| 11 | 3.808 | 3.798 | 3.824 | VV | 271 | 2422 | 0.03% | 0.002% |
| 12 | 3.857 | 3.824 | 3.871 | PV | 505 | 8218 | 0.10% | 0.006% |
| 13 | 3.876 | 3.871 | 3.908 | VV | 416 | 4739 | 0.06% | 0.004% |
| 14 | 3.937 | 3.908 | 3.951 | VV | 1141 | 14598 | 0.18% | 0.011% |
| 15 | 3.964 | 3.951 | 3.985 | VV | 1341 | 14196 | 0.18% | 0.010% |
| 16 | 3.999 | 3.985 | 4.018 | VV | 546 | 7894 | 0.10% | 0.006% |
| 17 | 4.031 | 4.018 | 4.053 | VV | 928 | 10481 | 0.13% | 0.008% |
| 18 | 4.110 | 4.053 | 4.127 | VV | 845 | 20347 | 0.26% | 0.015% |
| 19 | 4.140 | 4.127 | 4.168 | VV | 541 | 9053 | 0.11% | 0.007% |
| 20 | 4.177 | 4.168 | 4.215 | VV | 443 | 6108 | 0.08% | 0.005% |
| 21 | 4.250 | 4.215 | 4.271 | VV | 676 | 11330 | 0.14% | 0.008% |
| 22 | 4.288 | 4.271 | 4.308 | VV | 515 | 8981 | 0.11% | 0.007% |
| 23 | 4.335 | 4.308 | 4.360 | VV | 566947 | 5201675 | 65.19% | 3.846% |
| 24 | 4.375 | 4.360 | 4.424 | VV | 13463 | 148720 | 1.86% | 0.110% |
| 25 | 4.440 | 4.424 | 4.461 | VV | 714 | 13398 | 0.17% | 0.010% |
| 26 | 4.502 | 4.461 | 4.517 | VV | 1459 | 30227 | 0.38% | 0.022% |
| 27 | 4.531 | 4.517 | 4.543 | VV | 1465 | 17356 | 0.22% | 0.013% |
| 28 | 4.556 | 4.543 | 4.572 | VV | 1554 | 18381 | 0.23% | 0.014% |
| 29 | 4.587 | 4.572 | 4.603 | VV | 2248 | 23741 | 0.30% | 0.018% |
| 30 | 4.615 | 4.603 | 4.628 | VV | 916 | 10618 | 0.13% | 0.008% |
| 31 | 4.643 | 4.628 | 4.651 | VV | 785 | 9885 | 0.12% | 0.007% |
| 32 | 4.661 | 4.651 | 4.674 | VV | 845 | 9430 | 0.12% | 0.007% |
| 33 | 4.706 | 4.674 | 4.723 | VV | 1262 | 23092 | 0.29% | 0.017% |
| 34 | 4.744 | 4.723 | 4.781 | VV | 1258 | 25973 | 0.33% | 0.019% |
| 35 | 4.802 | 4.781 | 4.835 | VV | 2365 | 32178 | 0.40% | 0.024% |
| 36 | 4.851 | 4.835 | 4.869 | VV | 547 | 9066 | 0.11% | 0.007% |

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 4.890 | 4.869 | 4.906 | VV | 599 | 9401 | 0.12% | 0.007% |
| 38 | 4.965 | 4.906 | 4.996 | VV | 3524 | 64356 | | |
| 39 | 5.020 | 4.996 | 5.035 | VV | 1529 | 19088 | | |
| 40 | 5.048 | 5.035 | 5.062 | VV | 1448 | 16492 | | |
| 41 | 5.073 | 5.062 | 5.115 | VV | 973 | 21151 | | |
| 42 | 5.139 | 5.115 | 5.149 | VV | 633 | 10795 | | |
| 43 | 5.165 | 5.149 | 5.211 | VV | 808 | 24099 | 0.30% | 0.018% |
| 44 | 5.227 | 5.211 | 5.238 | VV | 729 | 9648 | 0.12% | 0.007% |
| 45 | 5.257 | 5.238 | 5.273 | VV | 2087 | 25616 | 0.32% | 0.019% |
| 46 | 5.284 | 5.273 | 5.338 | VV | 1120 | 28690 | 0.36% | 0.021% |
| 47 | 5.368 | 5.338 | 5.378 | VV | 2964 | 37200 | 0.47% | 0.028% |
| 48 | 5.389 | 5.378 | 5.453 | VV | 2741 | 65639 | 0.82% | 0.049% |
| 49 | 5.460 | 5.453 | 5.474 | VV | 730 | 7947 | 0.10% | 0.006% |
| 50 | 5.488 | 5.474 | 5.517 | VV | 856 | 15912 | 0.20% | 0.012% |
| 51 | 5.546 | 5.517 | 5.578 | VV | 3947 | 55739 | 0.70% | 0.041% |
| 52 | 5.615 | 5.578 | 5.636 | VV | 779 | 23136 | 0.29% | 0.017% |
| 53 | 5.655 | 5.636 | 5.692 | VV | 1053 | 25789 | 0.32% | 0.019% |
| 54 | 5.715 | 5.692 | 5.744 | VV | 908 | 21657 | 0.27% | 0.016% |
| 55 | 5.772 | 5.744 | 5.801 | VV | 1175 | 26217 | 0.33% | 0.019% |
| 56 | 5.820 | 5.801 | 5.839 | VV | 880 | 14719 | 0.18% | 0.011% |
| 57 | 5.875 | 5.839 | 5.892 | VV | 1707 | 33617 | 0.42% | 0.025% |
| 58 | 5.913 | 5.892 | 5.945 | VV | 6152 | 81541 | 1.02% | 0.060% |
| 59 | 5.961 | 5.945 | 5.981 | VV | 1290 | 21627 | 0.27% | 0.016% |
| 60 | 6.009 | 5.981 | 6.033 | VV | 2246 | 40341 | 0.51% | 0.030% |
| 61 | 6.065 | 6.033 | 6.078 | VV | 1389 | 30078 | 0.38% | 0.022% |
| 62 | 6.093 | 6.078 | 6.118 | VV | 1284 | 25749 | 0.32% | 0.019% |
| 63 | 6.154 | 6.118 | 6.173 | VV | 1422 | 34726 | 0.44% | 0.026% |
| 64 | 6.180 | 6.173 | 6.202 | VV | 823 | 13096 | 0.16% | 0.010% |
| 65 | 6.228 | 6.202 | 6.245 | VV | 1295 | 25358 | 0.32% | 0.019% |
| 66 | 6.272 | 6.245 | 6.288 | VV | 1449 | 28841 | 0.36% | 0.021% |
| 67 | 6.300 | 6.288 | 6.314 | VV | 1351 | 18153 | 0.23% | 0.013% |
| 68 | 6.349 | 6.314 | 6.415 | VV | 621306 | 6316774 | 79.17% | 4.671% |
| 69 | 6.433 | 6.415 | 6.451 | VV | 1795 | 29707 | 0.37% | 0.022% |
| 70 | 6.496 | 6.451 | 6.517 | VV | 2583 | 63147 | 0.79% | 0.047% |
| 71 | 6.533 | 6.517 | 6.555 | VV | 2369 | 36928 | 0.46% | 0.027% |
| 72 | 6.569 | 6.555 | 6.592 | VV | 1196 | 20765 | 0.26% | 0.015% |
| 73 | 6.613 | 6.592 | 6.641 | VV | 1299 | 30247 | 0.38% | 0.022% |
| 74 | 6.674 | 6.641 | 6.694 | VV | 1641 | 36634 | 0.46% | 0.027% |
| 75 | 6.709 | 6.694 | 6.716 | VV | 936 | 11397 | 0.14% | 0.008% |
| 76 | 6.731 | 6.716 | 6.761 | VV | 1221 | 26165 | 0.33% | 0.019% |
| 77 | 6.801 | 6.761 | 6.822 | VV | 1442 | 37579 | 0.47% | 0.028% |
| 78 | 6.841 | 6.822 | 6.854 | VV | 2031 | 28790 | 0.36% | 0.021% |
| 79 | 6.867 | 6.854 | 6.880 | VV | 1674 | 23412 | 0.29% | 0.017% |
| 80 | 6.903 | 6.880 | 6.930 | VV | 1769 | 40414 | 0.51% | 0.030% |
| 81 | 6.966 | 6.930 | 7.024 | VV | 4220 | 91110 | 1.14% | 0.067% |
| 82 | 7.048 | 7.024 | 7.088 | VV | 3426 | 65823 | 0.82% | 0.049% |
| 83 | 7.101 | 7.088 | 7.111 | VV | 1164 | 13452 | 0.17% | 0.010% |
| 84 | 7.129 | 7.111 | 7.161 | VV | 2978 | 50834 | 0.64% | 0.038% |
| 85 | 7.176 | 7.161 | 7.201 | VV | 1048 | 22912 | 0.29% | 0.017% |
| 86 | 7.233 | 7.201 | 7.247 | VV | 1414 | 32085 | 0.40% | 0.024% |
| 87 | 7.269 | 7.247 | 7.295 | VV | 3348 | 52683 | 0.66% | 0.039% |
| 88 | 7.334 | 7.295 | 7.344 | VV | 1134 | 28737 | 0.36% | 0.021% |
| 89 | 7.357 | 7.344 | 7.378 | VV | 1277 | 20137 | 0.25% | 0.015% |

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.401 | 7.378 | 7.414 | VV | 897 | 18030 | 0.23% | 0.013% |
| 91 | 7.442 | 7.414 | 7.507 | VV | 1226 | 47106 | | |
| 92 | 7.529 | 7.507 | 7.543 | VV | 1704 | 24737 | | |
| 93 | 7.554 | 7.543 | 7.625 | VV | 1346 | 49108 | | |
| 94 | 7.644 | 7.625 | 7.662 | VV | 863 | 16855 | | |
| 95 | 7.695 | 7.662 | 7.713 | VV | 1595 | 32875 | | |
| 96 | 7.744 | 7.713 | 7.768 | VV | 1076 | 28254 | 0.35% | 0.021% |
| 97 | 7.791 | 7.768 | 7.807 | VV | 947 | 19308 | 0.24% | 0.014% |
| 98 | 7.835 | 7.807 | 7.855 | VV | 2733 | 43984 | 0.55% | 0.033% |
| 99 | 7.889 | 7.855 | 7.917 | VV | 2739 | 57477 | 0.72% | 0.043% |
| 100 | 7.960 | 7.917 | 7.989 | VV | 2614 | 54848 | 0.69% | 0.041% |
| 101 | 8.014 | 7.989 | 8.030 | VV | 1146 | 25503 | 0.32% | 0.019% |
| 102 | 8.046 | 8.030 | 8.068 | VV | 1522 | 24921 | 0.31% | 0.018% |
| 103 | 8.095 | 8.068 | 8.104 | VV | 863 | 17365 | 0.22% | 0.013% |
| 104 | 8.141 | 8.104 | 8.207 | VV | 640141 | 7068650 | 88.59% | 5.227% |
| 105 | 8.242 | 8.207 | 8.268 | VV | 2117 | 48443 | 0.61% | 0.036% |
| 106 | 8.295 | 8.268 | 8.318 | VV | 3610 | 54890 | 0.69% | 0.041% |
| 107 | 8.327 | 8.318 | 8.361 | VV | 1003 | 21560 | 0.27% | 0.016% |
| 108 | 8.375 | 8.361 | 8.413 | VV | 1043 | 25525 | 0.32% | 0.019% |
| 109 | 8.441 | 8.413 | 8.508 | VV | 19080 | 256988 | 3.22% | 0.190% |
| 110 | 8.537 | 8.508 | 8.570 | VV | 2959 | 58435 | 0.73% | 0.043% |
| 111 | 8.591 | 8.570 | 8.615 | VV | 2331 | 37281 | 0.47% | 0.028% |
| 112 | 8.628 | 8.615 | 8.640 | VV | 1150 | 15726 | 0.20% | 0.012% |
| 113 | 8.675 | 8.640 | 8.723 | VV | 2209 | 58076 | 0.73% | 0.043% |
| 114 | 8.745 | 8.723 | 8.772 | VV | 781 | 17262 | 0.22% | 0.013% |
| 115 | 8.793 | 8.772 | 8.809 | VV | 610 | 10341 | 0.13% | 0.008% |
| 116 | 8.821 | 8.809 | 8.838 | VV | 525 | 8035 | 0.10% | 0.006% |
| 117 | 8.858 | 8.838 | 8.881 | VV | 1448 | 24992 | 0.31% | 0.018% |
| 118 | 8.895 | 8.881 | 8.909 | VV | 1199 | 15245 | 0.19% | 0.011% |
| 119 | 8.917 | 8.909 | 8.941 | VV | 785 | 14542 | 0.18% | 0.011% |
| 120 | 8.971 | 8.941 | 9.026 | VV | 2323 | 60190 | 0.75% | 0.045% |
| 121 | 9.046 | 9.026 | 9.070 | VV | 800 | 13007 | 0.16% | 0.010% |
| 122 | 9.095 | 9.070 | 9.128 | VV | 471 | 9562 | 0.12% | 0.007% |
| 123 | 9.144 | 9.128 | 9.158 | VV | 362 | 5230 | 0.07% | 0.004% |
| 124 | 9.198 | 9.158 | 9.211 | VV | 474 | 11617 | 0.15% | 0.009% |
| 125 | 9.217 | 9.211 | 9.231 | VV | 434 | 4067 | 0.05% | 0.003% |
| 126 | 9.260 | 9.231 | 9.300 | VV | 986 | 20073 | 0.25% | 0.015% |
| 127 | 9.327 | 9.300 | 9.361 | VV | 2132 | 37378 | 0.47% | 0.028% |
| 128 | 9.377 | 9.361 | 9.413 | VV | 917 | 14545 | 0.18% | 0.011% |
| 129 | 9.423 | 9.413 | 9.441 | VV | 424 | 4960 | 0.06% | 0.004% |
| 130 | 9.469 | 9.441 | 9.493 | VV | 774 | 14716 | 0.18% | 0.011% |
| 131 | 9.517 | 9.493 | 9.548 | VV | 2561 | 30743 | 0.39% | 0.023% |
| 132 | 9.576 | 9.548 | 9.595 | VV | 299 | 4183 | 0.05% | 0.003% |
| 133 | 9.607 | 9.595 | 9.622 | VV | 155 | 1943 | 0.02% | 0.001% |
| 134 | 9.657 | 9.622 | 9.696 | VV | 588 | 12813 | 0.16% | 0.009% |
| 135 | 9.740 | 9.696 | 9.881 | VV | 697421 | 7680963 | 96.26% | 5.680% |
| 136 | 9.908 | 9.881 | 9.941 | VV | 318 | 7845 | 0.10% | 0.006% |
| 137 | 9.962 | 9.941 | 9.981 | VV | 592 | 7592 | 0.10% | 0.006% |
| 138 | 10.013 | 9.981 | 10.032 | VV | 223 | 3923 | 0.05% | 0.003% |
| 139 | 10.058 | 10.032 | 10.098 | PV | 290 | 7488 | 0.09% | 0.006% |
| 140 | 10.126 | 10.098 | 10.144 | VV | 805 | 13422 | 0.17% | 0.010% |
| 141 | 10.161 | 10.144 | 10.186 | VV | 529 | 9165 | 0.11% | 0.007% |

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 142 | 10.217 | 10.186 | 10.235 | VV | 329 | 6413 | 0.08% | 0.005% |
| 143 | 10.257 | 10.235 | 10.299 | VV | 219 | 5182 | | |
| 144 | 10.335 | 10.299 | 10.351 | VV | 353 | 5811 | | |
| 145 | 10.368 | 10.351 | 10.388 | VV | 423 | 7729 | | |
| 146 | 10.407 | 10.388 | 10.437 | VV | 553 | 14815 | | |
| 147 | 10.447 | 10.437 | 10.457 | VV | 589 | 5908 | | |
| 148 | 10.474 | 10.457 | 10.514 | VV | 917 | 20012 | 0.25% | 0.015% |
| 149 | 10.544 | 10.514 | 10.576 | VV | 646 | 17107 | 0.21% | 0.013% |
| 150 | 10.601 | 10.576 | 10.639 | VV | 1057 | 18823 | 0.24% | 0.014% |
| 151 | 10.645 | 10.639 | 10.652 | VV | 217 | 1427 | 0.02% | 0.001% |
| 152 | 10.666 | 10.652 | 10.685 | VV | 222 | 3918 | 0.05% | 0.003% |
| 153 | 10.691 | 10.685 | 10.708 | VV | 311 | 3133 | 0.04% | 0.002% |
| 154 | 10.727 | 10.708 | 10.770 | VV | 652 | 14372 | 0.18% | 0.011% |
| 155 | 10.799 | 10.770 | 10.823 | VV | 1014 | 17472 | 0.22% | 0.013% |
| 156 | 10.846 | 10.823 | 10.872 | VV | 1072 | 16969 | 0.21% | 0.013% |
| 157 | 10.897 | 10.872 | 10.915 | VV | 581 | 10700 | 0.13% | 0.008% |
| 158 | 10.925 | 10.915 | 10.950 | VV | 327 | 4730 | 0.06% | 0.003% |
| 159 | 10.980 | 10.950 | 11.022 | VV | 4776 | 60330 | 0.76% | 0.045% |
| 160 | 11.038 | 11.022 | 11.085 | VV | 174 | 3021 | 0.04% | 0.002% |
| 161 | 11.107 | 11.085 | 11.138 | PV | 1345 | 19473 | 0.24% | 0.014% |
| 162 | 11.180 | 11.138 | 11.256 | VV | 702160 | 7978995 | 100.00% | 5.900% |
| 163 | 11.268 | 11.256 | 11.315 | VV | 704 | 13624 | 0.17% | 0.010% |
| 164 | 11.330 | 11.315 | 11.355 | VV | 249 | 3556 | 0.04% | 0.003% |
| 165 | 11.390 | 11.355 | 11.427 | VV | 191 | 4178 | 0.05% | 0.003% |
| 166 | 11.487 | 11.427 | 11.512 | VV | 1000 | 18173 | 0.23% | 0.013% |
| 167 | 11.530 | 11.512 | 11.548 | VV | 309 | 5361 | 0.07% | 0.004% |
| 168 | 11.564 | 11.548 | 11.608 | VV | 557 | 11351 | 0.14% | 0.008% |
| 169 | 11.632 | 11.608 | 11.678 | VV | 566 | 14349 | 0.18% | 0.011% |
| 170 | 11.745 | 11.678 | 11.758 | VV | 296 | 9803 | 0.12% | 0.007% |
| 171 | 11.838 | 11.758 | 11.865 | VV | 917 | 31846 | 0.40% | 0.024% |
| 172 | 11.888 | 11.865 | 11.908 | VV | 371 | 7476 | 0.09% | 0.006% |
| 173 | 11.934 | 11.908 | 11.958 | VV | 315 | 6497 | 0.08% | 0.005% |
| 174 | 11.981 | 11.958 | 11.995 | VV | 353 | 6490 | 0.08% | 0.005% |
| 175 | 11.998 | 11.995 | 12.023 | VV | 363 | 4395 | 0.06% | 0.003% |
| 176 | 12.058 | 12.023 | 12.101 | VV | 873 | 23762 | 0.30% | 0.018% |
| 177 | 12.122 | 12.101 | 12.151 | VV | 684 | 15556 | 0.19% | 0.012% |
| 178 | 12.172 | 12.151 | 12.238 | VV | 613 | 17976 | 0.23% | 0.013% |
| 179 | 12.309 | 12.238 | 12.335 | VV | 2741 | 54009 | 0.68% | 0.040% |
| 180 | 12.344 | 12.335 | 12.375 | VV | 1002 | 13236 | 0.17% | 0.010% |
| 181 | 12.423 | 12.375 | 12.445 | VV | 957 | 14959 | 0.19% | 0.011% |
| 182 | 12.488 | 12.445 | 12.595 | VV | 639596 | 7931298 | 99.40% | 5.865% |
| 183 | 12.600 | 12.595 | 12.698 | VV | 388 | 9452 | 0.12% | 0.007% |
| 184 | 12.735 | 12.698 | 12.748 | PV | 271 | 4415 | 0.06% | 0.003% |
| 185 | 12.760 | 12.748 | 12.795 | VV | 273 | 4582 | 0.06% | 0.003% |
| 186 | 12.833 | 12.795 | 12.864 | VV | 775 | 14434 | 0.18% | 0.011% |
| 187 | 12.929 | 12.864 | 13.026 | VV | 453357 | 5606334 | 70.26% | 4.146% |
| 188 | 13.039 | 13.026 | 13.056 | VV | 549 | 8597 | 0.11% | 0.006% |
| 189 | 13.099 | 13.056 | 13.215 | VV | 611109 | 7570848 | 94.88% | 5.598% |
| 190 | 13.224 | 13.215 | 13.274 | VV | 384 | 9616 | 0.12% | 0.007% |
| 191 | 13.308 | 13.274 | 13.325 | VV | 491 | 10727 | 0.13% | 0.008% |
| 192 | 13.368 | 13.325 | 13.417 | VV | 501 | 18437 | 0.23% | 0.014% |
| 193 | 13.438 | 13.417 | 13.458 | VV | 343 | 6209 | 0.08% | 0.005% |
| 194 | 13.471 | 13.458 | 13.495 | VV | 624 | 9576 | 0.12% | 0.007% |

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 195 | 13.523 | 13.495 | 13.563 | VV | 1641 | 28325 | 0.35% | 0.021% |
| 196 | 13.575 | 13.563 | 13.600 | VV | 321 | 6054 | | |
| 197 | 13.627 | 13.600 | 13.643 | VV | 1008 | 15839 | | |
| 198 | 13.684 | 13.643 | 13.766 | VV | 608928 | 7446863 | 93 | |
| 199 | 13.773 | 13.766 | 13.795 | VV | 480 | 6477 | | |
| 200 | 13.802 | 13.795 | 13.845 | VV | 352 | 6832 | | |
| 201 | 13.899 | 13.845 | 13.955 | VV | 298 | 14381 | 0.18% | 0.011% |
| 202 | 13.972 | 13.955 | 13.991 | VV | 223 | 3716 | 0.05% | 0.003% |
| 203 | 14.014 | 13.991 | 14.056 | VV | 258 | 7707 | 0.10% | 0.006% |
| 204 | 14.079 | 14.056 | 14.083 | VV | 228 | 3063 | 0.04% | 0.002% |
| 205 | 14.115 | 14.083 | 14.148 | VV | 1616 | 27361 | 0.34% | 0.020% |
| 206 | 14.241 | 14.148 | 14.285 | VV | 4812 | 72969 | 0.91% | 0.054% |
| 207 | 14.306 | 14.285 | 14.357 | VV | 403 | 12371 | 0.16% | 0.009% |
| 208 | 14.380 | 14.357 | 14.421 | VV | 403 | 10886 | 0.14% | 0.008% |
| 209 | 14.443 | 14.421 | 14.458 | VV | 274 | 4655 | 0.06% | 0.003% |
| 210 | 14.485 | 14.458 | 14.511 | VV | 263 | 7158 | 0.09% | 0.005% |
| 211 | 14.560 | 14.511 | 14.608 | VV | 385 | 15122 | 0.19% | 0.011% |
| 212 | 14.622 | 14.608 | 14.658 | VV | 330 | 6641 | 0.08% | 0.005% |
| 213 | 14.665 | 14.658 | 14.681 | VV | 193 | 2419 | 0.03% | 0.002% |
| 214 | 14.785 | 14.681 | 14.898 | VV | 548457 | 7254673 | 90.92% | 5.365% |
| 215 | 14.904 | 14.898 | 14.916 | VV | 249 | 1604 | 0.02% | 0.001% |
| 216 | 14.956 | 14.916 | 14.970 | VV | 220 | 4746 | 0.06% | 0.004% |
| 217 | 14.986 | 14.970 | 15.005 | VV | 235 | 3253 | 0.04% | 0.002% |
| 218 | 15.024 | 15.005 | 15.041 | VV | 187 | 2328 | 0.03% | 0.002% |
| 219 | 15.117 | 15.041 | 15.147 | VV | 182 | 5199 | 0.07% | 0.004% |
| 220 | 15.207 | 15.147 | 15.231 | PV | 274 | 4277 | 0.05% | 0.003% |
| 221 | 15.299 | 15.231 | 15.411 | PV | 8755 | 125000 | 1.57% | 0.092% |
| 222 | 15.481 | 15.411 | 15.498 | PV | 279 | 4719 | 0.06% | 0.003% |
| 223 | 15.517 | 15.498 | 15.538 | VV | 132 | 1959 | 0.02% | 0.001% |
| 224 | 15.548 | 15.538 | 15.561 | VV | 151 | 1112 | 0.01% | 0.001% |
| 225 | 15.589 | 15.561 | 15.601 | VV | 238 | 3568 | 0.04% | 0.003% |
| 226 | 15.619 | 15.601 | 15.650 | VV | 429 | 8996 | 0.11% | 0.007% |
| 227 | 15.680 | 15.650 | 15.731 | VV | 317 | 9362 | 0.12% | 0.007% |
| 228 | 15.804 | 15.731 | 15.912 | VV | 522824 | 6994905 | 87.67% | 5.172% |
| 229 | 15.922 | 15.912 | 15.931 | VV | 190 | 1901 | 0.02% | 0.001% |
| 230 | 15.935 | 15.931 | 15.957 | VV | 226 | 2172 | 0.03% | 0.002% |
| 231 | 15.977 | 15.957 | 16.028 | VV | 182 | 6555 | 0.08% | 0.005% |
| 232 | 16.045 | 16.028 | 16.066 | VV | 104 | 1624 | 0.02% | 0.001% |
| 233 | 16.109 | 16.066 | 16.133 | PV | 399 | 7994 | 0.10% | 0.006% |
| 234 | 16.158 | 16.133 | 16.211 | VV | 359 | 7323 | 0.09% | 0.005% |
| 235 | 16.282 | 16.211 | 16.352 | PV | 10737 | 164155 | 2.06% | 0.121% |
| 236 | 16.361 | 16.352 | 16.380 | VV | 132 | 1636 | 0.02% | 0.001% |
| 237 | 16.394 | 16.380 | 16.415 | VV | 173 | 2147 | 0.03% | 0.002% |
| 238 | 16.441 | 16.415 | 16.468 | VV | 248 | 4274 | 0.05% | 0.003% |
| 239 | 16.502 | 16.468 | 16.547 | VV | 187 | 5183 | 0.06% | 0.004% |
| 240 | 16.582 | 16.547 | 16.603 | VV | 526 | 8825 | 0.11% | 0.007% |
| 241 | 16.633 | 16.603 | 16.684 | VV | 710 | 20552 | 0.26% | 0.015% |
| 242 | 16.752 | 16.684 | 16.817 | VV | 477857 | 6767631 | 84.82% | 5.004% |
| 243 | 16.831 | 16.817 | 16.926 | VV | 369 | 11230 | 0.14% | 0.008% |
| 244 | 16.980 | 16.926 | 17.007 | VV | 327 | 8619 | 0.11% | 0.006% |
| 245 | 17.041 | 17.007 | 17.062 | VV | 493 | 11254 | 0.14% | 0.008% |
| 246 | 17.086 | 17.062 | 17.117 | VV | 475 | 9141 | 0.11% | 0.007% |

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

| | | | | rteres | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 17.198 | 17.117 | 17.245 | VV | 8311 | 137742 | 1.73% | 0.102% |
| 248 | 17.254 | 17.245 | 17.268 | VV | 93 | 1489 | | |
| 249 | 17.308 | 17.268 | 17.335 | VV | 514 | 13554 | | |
| 250 | 17.364 | 17.335 | 17.378 | VV | 586 | 13130 | | |
| 251 | 17.403 | 17.378 | 17.444 | VV | 699 | 23993 | | |
| 252 | 17.480 | 17.444 | 17.496 | VV | 988 | 23220 | | |
| 253 | 17.525 | 17.496 | 17.565 | VV | 5272 | 88148 | 1.10% | 0.065% |
| 254 | 17.638 | 17.565 | 17.743 | VV | 470884 | 6611872 | 82.87% | 4.889% |
| 255 | 17.767 | 17.743 | 17.835 | VV | 468 | 14204 | 0.18% | 0.011% |
| 256 | 17.910 | 17.835 | 17.938 | PV | 559 | 13516 | 0.17% | 0.010% |
| 257 | 17.947 | 17.938 | 17.996 | VV | 287 | 4924 | 0.06% | 0.004% |
| 258 | 18.056 | 17.996 | 18.095 | VV | 5388 | 88653 | 1.11% | 0.066% |
| 259 | 18.135 | 18.095 | 18.161 | VV | 618 | 12657 | 0.16% | 0.009% |
| 260 | 18.171 | 18.161 | 18.178 | VV | 187 | 1481 | 0.02% | 0.001% |
| 261 | 18.202 | 18.178 | 18.210 | VV | 168 | 2929 | 0.04% | 0.002% |
| 262 | 18.270 | 18.210 | 18.295 | VV | 301 | 11463 | 0.14% | 0.008% |
| 263 | 18.317 | 18.295 | 18.341 | VV | 509 | 10544 | 0.13% | 0.008% |
| 264 | 18.364 | 18.341 | 18.399 | VV | 403 | 9601 | 0.12% | 0.007% |
| 265 | 18.469 | 18.399 | 18.538 | VV | 436264 | 6383444 | 80.00% | 4.720% |
| 266 | 18.548 | 18.538 | 18.578 | VV | 452 | 9379 | 0.12% | 0.007% |
| 267 | 18.615 | 18.578 | 18.678 | VV | 492 | 22575 | 0.28% | 0.017% |
| 268 | 18.722 | 18.678 | 18.743 | VV | 653 | 17870 | 0.22% | 0.013% |
| 269 | 18.767 | 18.743 | 18.807 | VV | 566 | 15290 | 0.19% | 0.011% |
| 270 | 18.863 | 18.807 | 18.941 | VV | 4066 | 75551 | 0.95% | 0.056% |
| 271 | 18.949 | 18.941 | 18.965 | PV | 93 | 935 | 0.01% | 0.001% |
| 272 | 19.036 | 18.965 | 19.075 | VV | 541 | 12664 | 0.16% | 0.009% |
| 273 | 19.111 | 19.075 | 19.130 | PV | 385 | 8190 | 0.10% | 0.006% |
| 274 | 19.162 | 19.130 | 19.172 | VV | 427 | 8941 | 0.11% | 0.007% |
| 275 | 19.253 | 19.172 | 19.318 | VV | 406558 | 6286744 | 78.79% | 4.649% |
| 276 | 19.338 | 19.318 | 19.370 | VV | 1680 | 46287 | 0.58% | 0.034% |
| 277 | 19.407 | 19.370 | 19.428 | VV | 1602 | 48816 | 0.61% | 0.036% |
| 278 | 19.489 | 19.428 | 19.509 | VV | 1521 | 68319 | 0.86% | 0.051% |
| 279 | 19.548 | 19.509 | 19.585 | VV | 2077 | 77121 | 0.97% | 0.057% |
| 280 | 19.622 | 19.585 | 19.653 | VV | 3659 | 95939 | 1.20% | 0.071% |
| 281 | 19.819 | 19.653 | 19.938 | VV | 7961 | 669439 | 8.39% | 0.495% |
| 282 | 19.990 | 19.938 | 20.071 | VV | 401511 | 6234659 | 78.14% | 4.610% |
| 283 | 20.129 | 20.071 | 20.233 | VV | 5911 | 433505 | 5.43% | 0.321% |
| 284 | 20.248 | 20.233 | 20.255 | VV | 3351 | 44736 | 0.56% | 0.033% |
| 285 | 20.263 | 20.255 | 20.278 | VV | 3338 | 44321 | 0.56% | 0.033% |
| 286 | 20.339 | 20.278 | 20.381 | VV | 5140 | 231835 | 2.91% | 0.171% |
| 287 | 20.396 | 20.381 | 20.418 | VV | 3416 | 73298 | 0.92% | 0.054% |
| 288 | 20.514 | 20.418 | 20.588 | VV | 4846 | 387431 | 4.86% | 0.286% |
| 289 | 20.609 | 20.588 | 20.617 | VV | 3602 | 62366 | 0.78% | 0.046% |
| 290 | 20.713 | 20.617 | 20.801 | VV | 341085 | 6345517 | 79.53% | 4.692% |
| 291 | 20.810 | 20.801 | 20.838 | VV | 3876 | 82366 | 1.03% | 0.061% |
| 292 | 20.859 | 20.838 | 20.988 | VV | 3664 | 292986 | 3.67% | 0.217% |
| 293 | 21.035 | 20.988 | 21.083 | VV | 3465 | 171273 | 2.15% | 0.127% |
| 294 | 21.120 | 21.083 | 21.161 | VV | 3823 | 146103 | 1.83% | 0.108% |
| 295 | 21.249 | 21.161 | 21.265 | VV | 3448 | 193997 | 2.43% | 0.143% |
| 296 | 21.277 | 21.265 | 21.294 | VV | 3315 | 56144 | 0.70% | 0.042% |
| 297 | 21.312 | 21.294 | 21.437 | VV | 3302 | 243705 | 3.05% | 0.180% |
| 298 | 21.598 | 21.437 | 21.801 | VV | 259176 | 6346288 | 79.54% | 4.693% |
| 299 | 21.817 | 21.801 | 21.955 | VV | 926 | 48310 | 0.61% | 0.036% |

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 300 | 21.977 | 21.955 | 21.992 | VV | 161 | 1924 | 0.02% | 0.001% | |

Sum of corrected areas: 1352

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Aliphatic EPH 111424.M Tue Nov 19 05:25:50 2024

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | EX-4-TPH-6MSD | | SDG No.: | P4860 | |
| Lab Sample ID: | P4839-22MSD | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 89.5 | |
| Sample Wt/Vol: | 30.05 Units: | g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048771.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.28 | | 0.34 | 0.74 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 15.1 | | 0.38 | 1.12 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 22.7 | | 1.07 | 1.86 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 37.6 | | 2.23 | 2.97 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 51.0 | | 40 - 140 | 102% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 50.4 | | 40 - 140 | 101% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 38.6 | | 40 - 140 | 77% | SPK: 50 |

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

# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4839-22MSD | Acq On: | 19 Nov 2024 00:17 |
| Client Sample ID: | EX-4-TPH-6MSD | Operator: | YP/AJ |
| Data file: | FD048771.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 72 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 16223595 | 84.49 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 39196496 | 203.662 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 56704572 | 305.184 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 79449037 | 505.301 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 191573700 | 1100 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.252 | 11.252 | 7428539 | 38.62 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.366 | 7.366 | 8969471 | 50.95 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.217 | 8.217 | 5798672 | 50.35 | | ug/ml |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048771.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) | S 2-Bromonaphthalene (S... | 7.366 | 8969471 | 50.946 ug/ml |
| | Spiked Amount 50.000 | | Recovery = 101.89% | |
| 6) | S 2-Flurobiphenyl (SURR) | 8.217 | 5798672 | 50.349 ug/ml |
| | Spiked Amount 50.000 Range 0 - 131 | | Recovery = 100.70% | |
| 11) | S ortho-Terphenyl (SURR) | 11.252 | 7428539 | 38.623 ug/ml |
| | Spiked Amount 50.000 | | Recovery = 77.25% | |
| | **Target Compounds** | | | |
| 1) | T 1,2,3-Trimethylbenzen... | 4.189 | 6923954 | 36.739 ug/ml |
| 2) | T Naphthalene (C11.7) | 5.706 | 8056151 | 41.192 ug/ml |
| 3) | T 2-Methylnaphthalene (... | 6.753 | 7956887 | 41.636 ug/ml |
| 5) | T Acenaphthylene (C15.06) | 8.020 | 9254488 | 47.722 ug/ml |
| 7) | T Acenaphthene (C15.5) | 8.316 | 9889760 | 51.417 ug/ml |
| 8) | T Flouorene (C16.55) | 9.094 | 9947391 | 51.849 ug/ml |
| 9) | T Phenanthrene (C19.36) | 10.482 | 10226984 | 55.793 ug/ml |
| 10) | T Anthracene (C19.43) | 10.559 | 10224393 | 54.597 ug/ml |
| 12) | T Fluoranthene (C21.85) | 12.289 | 10443203 | 57.029 ug/mlm |
| 13) | T Pyrene (C20.8) | 12.583 | 10226558 | 56.565 ug/ml |
| 14) | T Benzo[a]anthracene (C... | 14.453 | 9664307 | 58.749 ug/ml |
| 15) | T Chrysene (C27.41) | 14.497 | 9525573 | 54.428 ug/ml |
| 16) | T benzo[b]fluoranthene ... | 16.001 | 9229697 | 58.744 ug/ml |
| 17) | T Bnezo[k]fluoranthene ... | 16.036 | 9076756 | 55.619 ug/ml |
| 18) | T Benzo[a]pyrene (C31.34) | 16.377 | 8602414 | 57.697 ug/ml |
| 19) | T Indeno[1,2,3-cd]pyren... | 17.745 | 8630374 | 69.865 ug/ml |
| 20) | T Dibenz[a,h]anthracene... | 17.782 | 8113945 | 51.743 ug/ml |
| 21) | T Benzo[g,h,i]perylene ... | 17.997 | 8210524 | 57.542 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048771.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

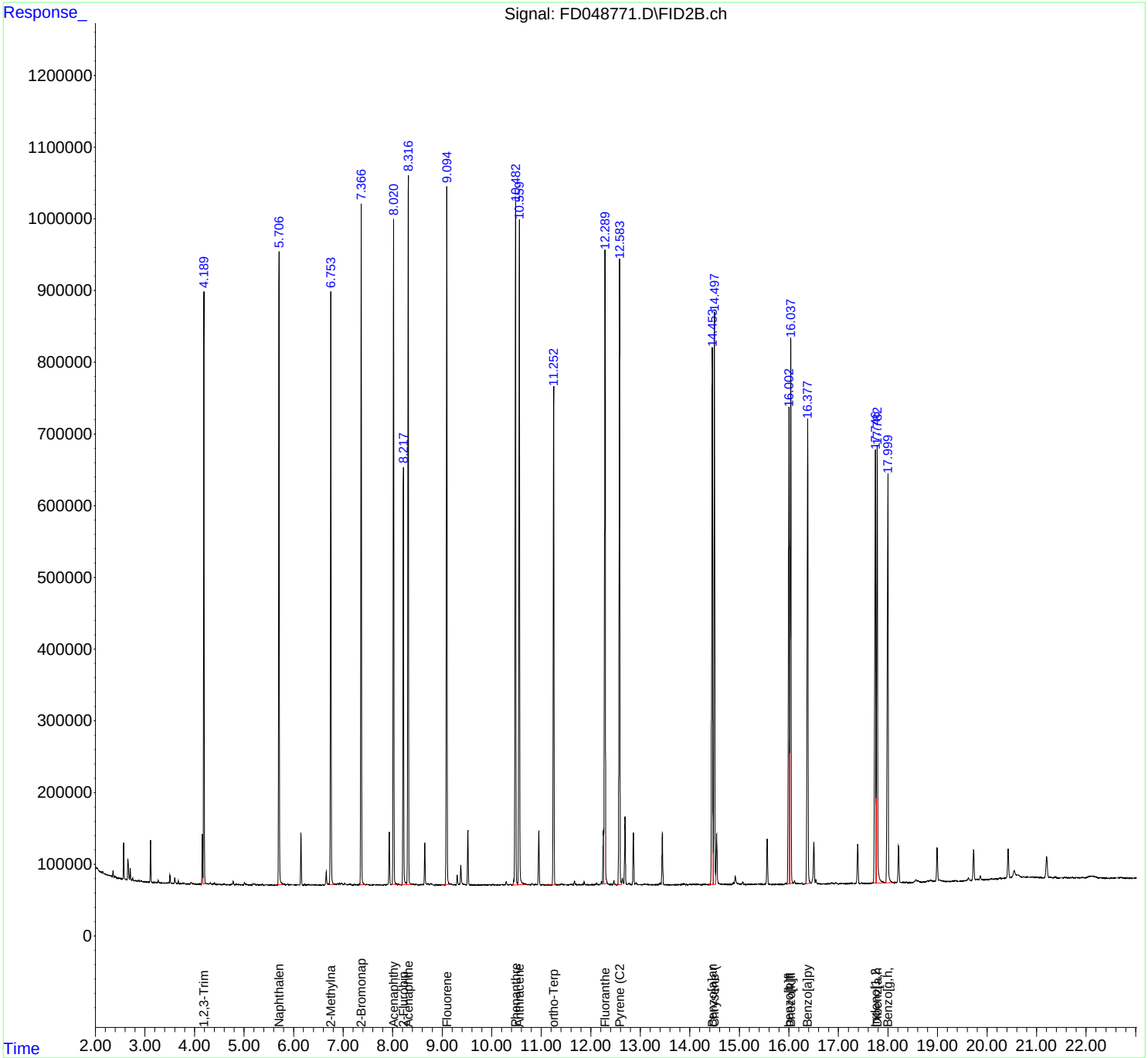
**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048771.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:17
Sample : P4839-22MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.109 | 4.094 | 4.132 | VV | 477 | 5090 | 0.05% | 0.002% |
| 2 | 4.158 | 4.132 | 4.171 | VV | 69922 | 592720 | 5.63% | 0.289% |
| 3 | 4.189 | 4.171 | 4.257 | VV | 825648 | 6961474 | 66.14% | 3.398% |
| 4 | 4.270 | 4.257 | 4.282 | VV | 1173 | 13663 | 0.13% | 0.007% |
| 5 | 4.321 | 4.282 | 4.347 | VV | 2161 | 43452 | 0.41% | 0.021% |
| 6 | 4.353 | 4.347 | 4.362 | VV | 578 | 3936 | 0.04% | 0.002% |
| 7 | 4.379 | 4.362 | 4.395 | VV | 1616 | 18200 | 0.17% | 0.009% |
| 8 | 4.408 | 4.395 | 4.434 | VV | 2469 | 23474 | 0.22% | 0.011% |
| 9 | 4.438 | 4.434 | 4.467 | VV | 392 | 5542 | 0.05% | 0.003% |
| 10 | 4.478 | 4.467 | 4.492 | VV | 569 | 5847 | 0.06% | 0.003% |
| 11 | 4.503 | 4.492 | 4.513 | VV | 602 | 5472 | 0.05% | 0.003% |
| 12 | 4.519 | 4.513 | 4.544 | VV | 595 | 7427 | 0.07% | 0.004% |
| 13 | 4.566 | 4.544 | 4.572 | PV | 264 | 2203 | 0.02% | 0.001% |
| 14 | 4.596 | 4.572 | 4.604 | VV | 866 | 11308 | 0.11% | 0.006% |
| 15 | 4.610 | 4.604 | 4.645 | VV | 967 | 11354 | 0.11% | 0.006% |
| 16 | 4.659 | 4.645 | 4.671 | VV | 359 | 2934 | 0.03% | 0.001% |
| 17 | 4.678 | 4.671 | 4.690 | VV | 216 | 1714 | 0.02% | 0.001% |
| 18 | 4.699 | 4.690 | 4.717 | VV | 457 | 4127 | 0.04% | 0.002% |
| 19 | 4.730 | 4.717 | 4.735 | VV | 395 | 2804 | 0.03% | 0.001% |
| 20 | 4.756 | 4.735 | 4.763 | VV | 997 | 10670 | 0.10% | 0.005% |
| 21 | 4.782 | 4.763 | 4.824 | VV | 5254 | 62135 | 0.59% | 0.030% |
| 22 | 4.837 | 4.824 | 4.849 | VV | 1327 | 12929 | 0.12% | 0.006% |
| 23 | 4.865 | 4.849 | 4.885 | VV | 1077 | 13200 | 0.13% | 0.006% |
| 24 | 4.888 | 4.885 | 4.929 | VV | 487 | 7351 | 0.07% | 0.004% |
| 25 | 4.936 | 4.929 | 4.947 | VV | 368 | 2754 | 0.03% | 0.001% |
| 26 | 4.951 | 4.947 | 4.960 | VV | 327 | 2102 | 0.02% | 0.001% |
| 27 | 4.971 | 4.960 | 4.990 | VV | 589 | 6056 | 0.06% | 0.003% |
| 28 | 5.009 | 4.990 | 5.034 | VV | 3871 | 46326 | 0.44% | 0.023% |
| 29 | 5.040 | 5.034 | 5.046 | VV | 1076 | 7645 | 0.07% | 0.004% |
| 30 | 5.049 | 5.046 | 5.067 | VV | 994 | 9629 | 0.09% | 0.005% |
| 31 | 5.070 | 5.067 | 5.089 | VV | 571 | 4933 | 0.05% | 0.002% |
| 32 | 5.107 | 5.089 | 5.112 | VV | 409 | 4108 | 0.04% | 0.002% |
| 33 | 5.116 | 5.112 | 5.131 | VV | 344 | 2277 | 0.02% | 0.001% |
| 34 | 5.147 | 5.131 | 5.162 | VV | 356 | 3735 | 0.04% | 0.002% |
| 35 | 5.180 | 5.162 | 5.201 | VV | 2300 | 31042 | 0.29% | 0.015% |
| 36 | 5.219 | 5.201 | 5.238 | VV | 2217 | 27183 | 0.26% | 0.013% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

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Supervised By :Ankita Jodhani 11/19/2024

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.259 | 5.238 | 5.272 | VV | 874 | 14100 | 0.13% | 0.007% |
| 38 | 5.275 | 5.272 | 5.319 | VV | 770 | 11856 | 0 | |
| 39 | 5.324 | 5.319 | 5.327 | VV | 386 | 1460 | 0 | |
| 40 | 5.343 | 5.327 | 5.356 | VV | 1015 | 11554 | 0 | |
| 41 | 5.368 | 5.356 | 5.401 | VV | 1097 | 15698 | 0 | |
| 42 | 5.419 | 5.401 | 5.438 | VV | 668 | 9010 | 0 | |
| 43 | 5.458 | 5.438 | 5.488 | VV | 1070 | 16716 | 0.16% | 0.008% |
| 44 | 5.510 | 5.488 | 5.527 | PV | 530 | 7639 | 0.07% | 0.004% |
| 45 | 5.542 | 5.527 | 5.573 | VV | 680 | 12433 | 0.12% | 0.006% |
| 46 | 5.584 | 5.573 | 5.615 | VV | 412 | 6778 | 0.06% | 0.003% |
| 47 | 5.620 | 5.615 | 5.630 | VV | 361 | 2609 | 0.02% | 0.001% |
| 48 | 5.664 | 5.630 | 5.678 | VV | 657 | 12225 | 0.12% | 0.006% |
| 49 | 5.706 | 5.678 | 5.790 | VV | 886721 | 8124701 | 77.19% | 3.965% |
| 50 | 5.812 | 5.790 | 5.832 | VV | 2100 | 40347 | 0.38% | 0.020% |
| 51 | 5.884 | 5.832 | 5.916 | VV | 2032 | 57685 | 0.55% | 0.028% |
| 52 | 5.932 | 5.916 | 5.946 | VV | 1285 | 17844 | 0.17% | 0.009% |
| 53 | 5.951 | 5.946 | 5.964 | VV | 1052 | 9905 | 0.09% | 0.005% |
| 54 | 5.969 | 5.964 | 5.995 | VV | 847 | 11110 | 0.11% | 0.005% |
| 55 | 6.009 | 5.995 | 6.025 | VV | 1064 | 13512 | 0.13% | 0.007% |
| 56 | 6.033 | 6.025 | 6.040 | VV | 771 | 5919 | 0.06% | 0.003% |
| 57 | 6.050 | 6.040 | 6.054 | VV | 658 | 4874 | 0.05% | 0.002% |
| 58 | 6.076 | 6.054 | 6.106 | VV | 1021 | 23837 | 0.23% | 0.012% |
| 59 | 6.115 | 6.106 | 6.123 | VV | 480 | 4125 | 0.04% | 0.002% |
| 60 | 6.150 | 6.123 | 6.200 | VV | 73351 | 719446 | 6.83% | 0.351% |
| 61 | 6.233 | 6.200 | 6.252 | VV | 1525 | 24128 | 0.23% | 0.012% |
| 62 | 6.269 | 6.252 | 6.281 | VV | 868 | 9885 | 0.09% | 0.005% |
| 63 | 6.299 | 6.281 | 6.317 | VV | 1619 | 21724 | 0.21% | 0.011% |
| 64 | 6.329 | 6.317 | 6.355 | VV | 861 | 9734 | 0.09% | 0.005% |
| 65 | 6.370 | 6.355 | 6.392 | PV | 836 | 11451 | 0.11% | 0.006% |
| 66 | 6.399 | 6.392 | 6.407 | VV | 565 | 4225 | 0.04% | 0.002% |
| 67 | 6.419 | 6.407 | 6.443 | VV | 1167 | 15665 | 0.15% | 0.008% |
| 68 | 6.459 | 6.443 | 6.480 | VV | 829 | 12566 | 0.12% | 0.006% |
| 69 | 6.486 | 6.480 | 6.507 | VV | 479 | 5590 | 0.05% | 0.003% |
| 70 | 6.521 | 6.507 | 6.524 | VV | 631 | 4875 | 0.05% | 0.002% |
| 71 | 6.527 | 6.524 | 6.532 | VV | 615 | 2657 | 0.03% | 0.001% |
| 72 | 6.537 | 6.532 | 6.554 | VV | 627 | 4993 | 0.05% | 0.002% |
| 73 | 6.559 | 6.554 | 6.568 | VV | 234 | 2064 | 0.02% | 0.001% |
| 74 | 6.588 | 6.568 | 6.611 | VV | 1039 | 13625 | 0.13% | 0.007% |
| 75 | 6.661 | 6.611 | 6.699 | VV | 19427 | 245279 | 2.33% | 0.120% |
| 76 | 6.711 | 6.699 | 6.722 | VV | 1956 | 23474 | 0.22% | 0.011% |
| 77 | 6.753 | 6.722 | 6.830 | VV | 830167 | 8020968 | 76.20% | 3.915% |
| 78 | 6.846 | 6.830 | 6.863 | VV | 2091 | 33163 | 0.32% | 0.016% |
| 79 | 6.893 | 6.863 | 6.911 | VV | 2822 | 49948 | 0.47% | 0.024% |
| 80 | 6.926 | 6.911 | 6.940 | VV | 3548 | 41745 | 0.40% | 0.020% |
| 81 | 6.958 | 6.940 | 6.970 | VV | 3210 | 45051 | 0.43% | 0.022% |
| 82 | 6.979 | 6.970 | 6.998 | VV | 2427 | 31680 | 0.30% | 0.015% |
| 83 | 7.003 | 6.998 | 7.017 | VV | 1306 | 12799 | 0.12% | 0.006% |
| 84 | 7.033 | 7.017 | 7.052 | VV | 3173 | 43265 | 0.41% | 0.021% |
| 85 | 7.065 | 7.052 | 7.084 | VV | 1554 | 23124 | 0.22% | 0.011% |
| 86 | 7.096 | 7.084 | 7.106 | VV | 1141 | 12038 | 0.11% | 0.006% |
| 87 | 7.133 | 7.106 | 7.152 | VV | 1897 | 35797 | 0.34% | 0.017% |
| 88 | 7.158 | 7.152 | 7.177 | VV | 1198 | 11704 | 0.11% | 0.006% |
| 89 | 7.186 | 7.177 | 7.209 | VV | 436 | 5649 | 0.05% | 0.003% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.231 | 7.209 | 7.260 | VV | 1659 | 24897 | 0.24% | 0.012% |
| 91 | 7.280 | 7.260 | 7.310 | VV | 1083 | 20807 | | |
| 92 | 7.326 | 7.310 | 7.339 | VV | 1577 | 18258 | | |
| 93 | 7.367 | 7.339 | 7.456 | VV | 952108 | 9022624 | 85 | |
| 94 | 7.487 | 7.456 | 7.507 | VV | 1511 | 35489 | | |
| 95 | 7.512 | 7.507 | 7.518 | VV | 939 | 6013 | | |
| 96 | 7.524 | 7.518 | 7.574 | VV | 1085 | 18100 | 0.17% | 0.009% |
| 97 | 7.590 | 7.574 | 7.597 | VV | 523 | 6305 | 0.06% | 0.003% |
| 98 | 7.603 | 7.597 | 7.610 | VV | 620 | 3792 | 0.04% | 0.002% |
| 99 | 7.631 | 7.610 | 7.667 | VV | 1355 | 25686 | 0.24% | 0.013% |
| 100 | 7.682 | 7.667 | 7.700 | VV | 839 | 12610 | 0.12% | 0.006% |
| 101 | 7.726 | 7.700 | 7.738 | VV | 717 | 11998 | 0.11% | 0.006% |
| 102 | 7.756 | 7.738 | 7.780 | VV | 1073 | 14650 | 0.14% | 0.007% |
| 103 | 7.790 | 7.780 | 7.802 | VV | 472 | 3912 | 0.04% | 0.002% |
| 104 | 7.809 | 7.802 | 7.815 | VV | 319 | 2059 | 0.02% | 0.001% |
| 105 | 7.838 | 7.815 | 7.867 | VV | 1220 | 21786 | 0.21% | 0.011% |
| 106 | 7.879 | 7.867 | 7.895 | VV | 1141 | 13590 | 0.13% | 0.007% |
| 107 | 7.933 | 7.895 | 7.970 | VV | 74256 | 796340 | 7.57% | 0.389% |
| 108 | 7.986 | 7.970 | 7.990 | VV | 1648 | 13333 | 0.13% | 0.007% |
| 109 | 8.020 | 7.990 | 8.102 | VV | 929879 | 9338690 | 88.72% | 4.558% |
| 110 | 8.115 | 8.102 | 8.150 | VV | 1929 | 40616 | 0.39% | 0.020% |
| 111 | 8.162 | 8.150 | 8.179 | VV | 1010 | 14529 | 0.14% | 0.007% |
| 112 | 8.217 | 8.179 | 8.269 | VV | 583138 | 5829587 | 55.38% | 2.845% |
| 113 | 8.278 | 8.269 | 8.285 | VV | 3233 | 31326 | 0.30% | 0.015% |
| 114 | 8.316 | 8.285 | 8.382 | VV | 991832 | 9956818 | 94.59% | 4.860% |
| 115 | 8.387 | 8.382 | 8.452 | VV | 1891 | 54798 | 0.52% | 0.027% |
| 116 | 8.477 | 8.452 | 8.509 | VV | 1715 | 39422 | 0.37% | 0.019% |
| 117 | 8.528 | 8.509 | 8.548 | VV | 1042 | 16531 | 0.16% | 0.008% |
| 118 | 8.568 | 8.548 | 8.579 | VV | 967 | 14880 | 0.14% | 0.007% |
| 119 | 8.582 | 8.579 | 8.589 | VV | 913 | 4157 | 0.04% | 0.002% |
| 120 | 8.608 | 8.589 | 8.626 | VV | 1451 | 21532 | 0.20% | 0.011% |
| 121 | 8.650 | 8.626 | 8.681 | VV | 59202 | 611314 | 5.81% | 0.298% |
| 122 | 8.685 | 8.681 | 8.694 | VV | 1817 | 13849 | 0.13% | 0.007% |
| 123 | 8.714 | 8.694 | 8.735 | VV | 2789 | 43349 | 0.41% | 0.021% |
| 124 | 8.763 | 8.735 | 8.776 | VV | 2393 | 35996 | 0.34% | 0.018% |
| 125 | 8.790 | 8.776 | 8.821 | VV | 2185 | 35909 | 0.34% | 0.018% |
| 126 | 8.834 | 8.821 | 8.857 | VV | 802 | 8503 | 0.08% | 0.004% |
| 127 | 8.861 | 8.857 | 8.865 | VV | 317 | 1016 | 0.01% | 0.000% |
| 128 | 8.884 | 8.865 | 8.911 | VV | 1154 | 13384 | 0.13% | 0.007% |
| 129 | 8.921 | 8.911 | 8.929 | VV | 404 | 3186 | 0.03% | 0.002% |
| 130 | 8.941 | 8.929 | 8.949 | VV | 552 | 5294 | 0.05% | 0.003% |
| 131 | 8.961 | 8.949 | 8.977 | VV | 704 | 8488 | 0.08% | 0.004% |
| 132 | 8.995 | 8.977 | 9.005 | VV | 934 | 10658 | 0.10% | 0.005% |
| 133 | 9.021 | 9.005 | 9.035 | VV | 930 | 12393 | 0.12% | 0.006% |
| 134 | 9.041 | 9.035 | 9.059 | VV | 627 | 6904 | 0.07% | 0.003% |
| 135 | 9.095 | 9.059 | 9.157 | VV | 974064 | 10021064 | 95.20% | 4.891% |
| 136 | 9.174 | 9.157 | 9.232 | VV | 2117 | 54499 | 0.52% | 0.027% |
| 137 | 9.248 | 9.232 | 9.277 | VV | 1363 | 21135 | 0.20% | 0.010% |
| 138 | 9.304 | 9.277 | 9.335 | VV | 14031 | 171996 | 1.63% | 0.084% |
| 139 | 9.350 | 9.335 | 9.358 | VV | 1818 | 21339 | 0.20% | 0.010% |
| 140 | 9.378 | 9.358 | 9.439 | VV | 28179 | 371763 | 3.53% | 0.181% |
| 141 | 9.444 | 9.439 | 9.449 | VV | 1148 | 6216 | 0.06% | 0.003% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

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Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 142 | 9.457 | 9.449 | 9.492 | VV | 1389 | 24179 | 0.23% | 0.012% |
| 143 | 9.520 | 9.492 | 9.574 | VV | 76693 | 825295 | | |
| 144 | 9.598 | 9.574 | 9.637 | VV | 783 | 18890 | | |
| 145 | 9.644 | 9.637 | 9.657 | VV | 336 | 2662 | | |
| 146 | 9.674 | 9.657 | 9.680 | VV | 272 | 2422 | | |
| 147 | 9.689 | 9.680 | 9.720 | VV | 408 | 5478 | | |
| 148 | 9.739 | 9.720 | 9.757 | VV | 424 | 6255 | 0.06% | 0.003% |
| 149 | 9.764 | 9.757 | 9.770 | VV | 245 | 1315 | 0.01% | 0.001% |
| 150 | 9.792 | 9.770 | 9.802 | VV | 498 | 7123 | 0.07% | 0.003% |
| 151 | 9.806 | 9.802 | 9.817 | VV | 397 | 3259 | 0.03% | 0.002% |
| 152 | 9.835 | 9.817 | 9.859 | VV | 618 | 12440 | 0.12% | 0.006% |
| 153 | 9.863 | 9.859 | 9.877 | VV | 481 | 3925 | 0.04% | 0.002% |
| 154 | 9.891 | 9.877 | 9.900 | VV | 425 | 5049 | 0.05% | 0.002% |
| 155 | 9.904 | 9.900 | 9.928 | VV | 557 | 7851 | 0.07% | 0.004% |
| 156 | 9.947 | 9.928 | 9.978 | VV | 799 | 16201 | 0.15% | 0.008% |
| 157 | 9.982 | 9.978 | 9.990 | VV | 565 | 3505 | 0.03% | 0.002% |
| 158 | 10.004 | 9.990 | 10.006 | VV | 516 | 4406 | 0.04% | 0.002% |
| 159 | 10.023 | 10.006 | 10.047 | VV | 1574 | 22840 | 0.22% | 0.011% |
| 160 | 10.050 | 10.047 | 10.083 | VV | 465 | 6842 | 0.06% | 0.003% |
| 161 | 10.095 | 10.083 | 10.109 | VV | 734 | 8510 | 0.08% | 0.004% |
| 162 | 10.121 | 10.109 | 10.125 | VV | 672 | 5784 | 0.05% | 0.003% |
| 163 | 10.140 | 10.125 | 10.147 | VV | 688 | 7820 | 0.07% | 0.004% |
| 164 | 10.153 | 10.147 | 10.172 | VV | 685 | 7441 | 0.07% | 0.004% |
| 165 | 10.210 | 10.172 | 10.229 | VV | 1366 | 25404 | 0.24% | 0.012% |
| 166 | 10.254 | 10.229 | 10.273 | VV | 865 | 16456 | 0.16% | 0.008% |
| 167 | 10.293 | 10.273 | 10.327 | VV | 5093 | 73353 | 0.70% | 0.036% |
| 168 | 10.336 | 10.327 | 10.351 | VV | 839 | 9561 | 0.09% | 0.005% |
| 169 | 10.382 | 10.351 | 10.412 | VV | 1372 | 26009 | 0.25% | 0.013% |
| 170 | 10.447 | 10.412 | 10.452 | VV | 6308 | 55028 | 0.52% | 0.027% |
| 171 | 10.483 | 10.452 | 10.525 | VV | 953583 | 10197289 | 96.88% | 4.977% |
| 172 | 10.560 | 10.525 | 10.667 | VV | 930305 | 10278480 | 97.65% | 5.017% |
| 173 | 10.671 | 10.667 | 10.703 | VV | 1935 | 32148 | 0.31% | 0.016% |
| 174 | 10.708 | 10.703 | 10.735 | VV | 1229 | 19072 | 0.18% | 0.009% |
| 175 | 10.741 | 10.735 | 10.745 | VV | 1084 | 5207 | 0.05% | 0.003% |
| 176 | 10.754 | 10.745 | 10.790 | VV | 1391 | 23865 | 0.23% | 0.012% |
| 177 | 10.812 | 10.790 | 10.865 | VV | 2203 | 55915 | 0.53% | 0.027% |
| 178 | 10.885 | 10.865 | 10.905 | VV | 1229 | 20797 | 0.20% | 0.010% |
| 179 | 10.911 | 10.905 | 10.915 | VV | 603 | 3522 | 0.03% | 0.002% |
| 180 | 10.953 | 10.915 | 10.999 | VV | 76028 | 864029 | 8.21% | 0.422% |
| 181 | 11.002 | 10.999 | 11.008 | VV | 470 | 2539 | 0.02% | 0.001% |
| 182 | 11.033 | 11.008 | 11.055 | VV | 1236 | 19530 | 0.19% | 0.010% |
| 183 | 11.065 | 11.055 | 11.078 | VV | 435 | 4524 | 0.04% | 0.002% |
| 184 | 11.103 | 11.078 | 11.125 | VV | 539 | 9203 | 0.09% | 0.004% |
| 185 | 11.137 | 11.125 | 11.164 | VV | 648 | 7460 | 0.07% | 0.004% |
| 186 | 11.252 | 11.194 | 11.301 | VV | 695462 | 7480977 | 71.07% | 3.651% |
| 187 | 11.317 | 11.301 | 11.324 | VV | 1042 | 11017 | 0.10% | 0.005% |
| 188 | 11.331 | 11.324 | 11.349 | VV | 935 | 12190 | 0.12% | 0.006% |
| 189 | 11.354 | 11.349 | 11.358 | VV | 609 | 2702 | 0.03% | 0.001% |
| 190 | 11.369 | 11.358 | 11.384 | VV | 911 | 12216 | 0.12% | 0.006% |
| 191 | 11.417 | 11.384 | 11.458 | VV | 1917 | 54572 | 0.52% | 0.027% |
| 192 | 11.466 | 11.458 | 11.496 | VV | 1058 | 18544 | 0.18% | 0.009% |
| 193 | 11.501 | 11.496 | 11.509 | VV | 675 | 4890 | 0.05% | 0.002% |
| 194 | 11.520 | 11.509 | 11.538 | VV | 668 | 9004 | 0.09% | 0.004% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 195 | 11.542 | 11.538 | 11.557 | VV | 444 | 4568 | 0.04% | 0.002% |
| 196 | 11.580 | 11.557 | 11.592 | VV | 1302 | 18854 | | |
| 197 | 11.606 | 11.592 | 11.634 | VV | 1533 | 26958 | | |
| 198 | 11.672 | 11.634 | 11.695 | VV | 5469 | 80694 | | |
| 199 | 11.706 | 11.695 | 11.732 | VV | 1095 | 16429 | | |
| 200 | 11.737 | 11.732 | 11.742 | VV | 501 | 2791 | | |
| 201 | 11.751 | 11.742 | 11.770 | VV | 793 | 11088 | 0.11% | 0.005% |
| 202 | 11.774 | 11.770 | 11.789 | VV | 720 | 6860 | 0.07% | 0.003% |
| 203 | 11.796 | 11.789 | 11.801 | VV | 708 | 4166 | 0.04% | 0.002% |
| 204 | 11.835 | 11.801 | 11.850 | VV | 1041 | 24031 | 0.23% | 0.012% |
| 205 | 11.868 | 11.850 | 11.904 | VV | 4658 | 66343 | 0.63% | 0.032% |
| 206 | 11.908 | 11.904 | 11.914 | VV | 812 | 4671 | 0.04% | 0.002% |
| 207 | 11.919 | 11.914 | 11.939 | VV | 872 | 10166 | 0.10% | 0.005% |
| 208 | 11.945 | 11.939 | 11.969 | VV | 680 | 9322 | 0.09% | 0.005% |
| 209 | 11.985 | 11.969 | 11.992 | VV | 653 | 7137 | 0.07% | 0.003% |
| 210 | 11.995 | 11.992 | 12.007 | VV | 668 | 4831 | 0.05% | 0.002% |
| 211 | 12.022 | 12.007 | 12.057 | VV | 750 | 17799 | 0.17% | 0.009% |
| 212 | 12.085 | 12.057 | 12.101 | VV | 975 | 20024 | 0.19% | 0.010% |
| 213 | 12.121 | 12.101 | 12.154 | VV | 3012 | 46686 | 0.44% | 0.023% |
| 214 | 12.217 | 12.154 | 12.230 | VV | 5206 | 80988 | 0.77% | 0.040% |
| 215 | 12.255 | 12.230 | 12.261 | VV | 76017 | 717645 | 6.82% | 0.350% |
| 216 | 12.289 | 12.261 | 12.372 | VV | 881983 | 10526104 | 100.00% | 5.137% |
| 217 | 12.376 | 12.372 | 12.389 | VV | 1066 | 10107 | 0.10% | 0.005% |
| 218 | 12.393 | 12.389 | 12.425 | VV | 1078 | 18674 | 0.18% | 0.009% |
| 219 | 12.433 | 12.425 | 12.444 | VV | 748 | 6752 | 0.06% | 0.003% |
| 220 | 12.468 | 12.444 | 12.501 | VV | 6242 | 83797 | 0.80% | 0.041% |
| 221 | 12.509 | 12.501 | 12.519 | VV | 720 | 6670 | 0.06% | 0.003% |
| 222 | 12.523 | 12.519 | 12.542 | VV | 641 | 7408 | 0.07% | 0.004% |
| 223 | 12.583 | 12.542 | 12.620 | VV | 875125 | 10261370 | 97.48% | 5.008% |
| 224 | 12.640 | 12.620 | 12.665 | VV | 9131 | 142844 | 1.36% | 0.070% |
| 225 | 12.692 | 12.665 | 12.735 | VV | 95296 | 1139194 | 10.82% | 0.556% |
| 226 | 12.739 | 12.735 | 12.749 | VV | 1129 | 8421 | 0.08% | 0.004% |
| 227 | 12.773 | 12.749 | 12.812 | VV | 2881 | 53241 | 0.51% | 0.026% |
| 228 | 12.815 | 12.812 | 12.820 | VV | 826 | 3302 | 0.03% | 0.002% |
| 229 | 12.824 | 12.820 | 12.828 | VV | 676 | 2663 | 0.03% | 0.001% |
| 230 | 12.862 | 12.828 | 12.892 | VV | 72703 | 874975 | 8.31% | 0.427% |
| 231 | 12.917 | 12.892 | 12.954 | VV | 3445 | 62817 | 0.60% | 0.031% |
| 232 | 12.958 | 12.954 | 12.961 | VV | 601 | 2629 | 0.02% | 0.001% |
| 233 | 12.965 | 12.961 | 12.972 | VV | 642 | 3890 | 0.04% | 0.002% |
| 234 | 12.982 | 12.972 | 12.994 | VV | 726 | 8285 | 0.08% | 0.004% |
| 235 | 13.006 | 12.994 | 13.023 | VV | 704 | 9734 | 0.09% | 0.005% |
| 236 | 13.031 | 13.023 | 13.042 | VV | 604 | 5789 | 0.05% | 0.003% |
| 237 | 13.051 | 13.042 | 13.064 | VV | 777 | 8656 | 0.08% | 0.004% |
| 238 | 13.094 | 13.064 | 13.110 | VV | 1611 | 31584 | 0.30% | 0.015% |
| 239 | 13.117 | 13.110 | 13.129 | VV | 978 | 9990 | 0.09% | 0.005% |
| 240 | 13.133 | 13.129 | 13.181 | VV | 971 | 19242 | 0.18% | 0.009% |
| 241 | 13.214 | 13.181 | 13.225 | VV | 466 | 9151 | 0.09% | 0.004% |
| 242 | 13.239 | 13.225 | 13.267 | VV | 599 | 11534 | 0.11% | 0.006% |
| 243 | 13.285 | 13.267 | 13.310 | VV | 619 | 13061 | 0.12% | 0.006% |
| 244 | 13.318 | 13.310 | 13.335 | VV | 672 | 5957 | 0.06% | 0.003% |
| 245 | 13.400 | 13.335 | 13.417 | VV | 3075 | 52892 | 0.50% | 0.026% |
| 246 | 13.446 | 13.417 | 13.513 | VV | 72048 | 871817 | 8.28% | 0.425% |

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.520 | 13.513 | 13.525 | VV | 387 | 2352 | 0.02% | 0.001% |
| 248 | 13.539 | 13.525 | 13.560 | VV | 563 | 7329 | | |
| 249 | 13.568 | 13.560 | 13.600 | VV | 223 | 3208 | | |
| 250 | 13.606 | 13.600 | 13.625 | PV | 152 | 1493 | | |
| 251 | 13.634 | 13.625 | 13.642 | VV | 264 | 1595 | | |
| 252 | 13.672 | 13.642 | 13.699 | VV | 461 | 11187 | | |
| 253 | 13.703 | 13.699 | 13.727 | VV | 415 | 4618 | 0.04% | 0.002% |
| 254 | 13.739 | 13.727 | 13.767 | VV | 399 | 6045 | 0.06% | 0.003% |
| 255 | 13.775 | 13.767 | 13.787 | VV | 505 | 4898 | 0.05% | 0.002% |
| 256 | 13.801 | 13.787 | 13.824 | VV | 809 | 11163 | 0.11% | 0.005% |
| 257 | 13.833 | 13.824 | 13.856 | VV | 744 | 12336 | 0.12% | 0.006% |
| 258 | 13.879 | 13.856 | 13.918 | VV | 1717 | 33291 | 0.32% | 0.016% |
| 259 | 13.929 | 13.918 | 13.955 | VV | 539 | 8917 | 0.08% | 0.004% |
| 260 | 13.959 | 13.955 | 13.962 | VV | 370 | 1349 | 0.01% | 0.001% |
| 261 | 13.975 | 13.962 | 13.985 | VV | 480 | 5522 | 0.05% | 0.003% |
| 262 | 14.004 | 13.985 | 14.028 | VV | 1027 | 16565 | 0.16% | 0.008% |
| 263 | 14.039 | 14.028 | 14.045 | VV | 550 | 3950 | 0.04% | 0.002% |
| 264 | 14.069 | 14.045 | 14.117 | VV | 961 | 29374 | 0.28% | 0.014% |
| 265 | 14.121 | 14.117 | 14.149 | VV | 689 | 10534 | 0.10% | 0.005% |
| 266 | 14.166 | 14.149 | 14.181 | VV | 605 | 9266 | 0.09% | 0.005% |
| 267 | 14.186 | 14.181 | 14.201 | VV | 380 | 4378 | 0.04% | 0.002% |
| 268 | 14.215 | 14.201 | 14.228 | VV | 497 | 5741 | 0.05% | 0.003% |
| 269 | 14.266 | 14.234 | 14.274 | VV | 492 | 7696 | 0.07% | 0.004% |
| 270 | 14.290 | 14.274 | 14.299 | VV | 621 | 7319 | 0.07% | 0.004% |
| 271 | 14.307 | 14.299 | 14.332 | VV | 723 | 10999 | 0.10% | 0.005% |
| 272 | 14.339 | 14.332 | 14.342 | VV | 386 | 2189 | 0.02% | 0.001% |
| 273 | 14.349 | 14.342 | 14.368 | VV | 533 | 5649 | 0.05% | 0.003% |
| 274 | 14.381 | 14.368 | 14.409 | VV | 513 | 8441 | 0.08% | 0.004% |
| 275 | 14.453 | 14.409 | 14.470 | VV | 750176 | 9669359 | 91.86% | 4.719% |
| 276 | 14.497 | 14.470 | 14.521 | VV | 798449 | 9558352 | 90.81% | 4.665% |
| 277 | 14.541 | 14.521 | 14.631 | VV | 70672 | 984113 | 9.35% | 0.480% |
| 278 | 14.640 | 14.631 | 14.655 | VV | 905 | 10996 | 0.10% | 0.005% |
| 279 | 14.659 | 14.655 | 14.690 | VV | 840 | 12722 | 0.12% | 0.006% |
| 280 | 14.716 | 14.690 | 14.722 | VV | 782 | 13723 | 0.13% | 0.007% |
| 281 | 14.726 | 14.722 | 14.745 | VV | 752 | 8435 | 0.08% | 0.004% |
| 282 | 14.777 | 14.745 | 14.800 | VV | 535 | 14003 | 0.13% | 0.007% |
| 283 | 14.812 | 14.800 | 14.817 | VV | 459 | 3879 | 0.04% | 0.002% |
| 284 | 14.841 | 14.817 | 14.855 | VV | 525 | 8714 | 0.08% | 0.004% |
| 285 | 14.876 | 14.855 | 14.892 | VV | 3430 | 45712 | 0.43% | 0.022% |
| 286 | 14.916 | 14.892 | 15.006 | VV | 11906 | 247278 | 2.35% | 0.121% |
| 287 | 15.011 | 15.006 | 15.037 | VV | 852 | 12907 | 0.12% | 0.006% |
| 288 | 15.068 | 15.037 | 15.097 | VV | 3822 | 64383 | 0.61% | 0.031% |
| 289 | 15.102 | 15.097 | 15.141 | VV | 581 | 9247 | 0.09% | 0.005% |
| 290 | 15.150 | 15.141 | 15.160 | VV | 281 | 2044 | 0.02% | 0.001% |
| 291 | 15.165 | 15.160 | 15.182 | VV | 291 | 2960 | 0.03% | 0.001% |
| 292 | 15.197 | 15.182 | 15.203 | VV | 497 | 4665 | 0.04% | 0.002% |
| 293 | 15.210 | 15.203 | 15.238 | VV | 436 | 7171 | 0.07% | 0.003% |
| 294 | 15.255 | 15.238 | 15.276 | VV | 740 | 12365 | 0.12% | 0.006% |
| 295 | 15.291 | 15.276 | 15.305 | VV | 538 | 7213 | 0.07% | 0.004% |
| 296 | 15.312 | 15.305 | 15.332 | VV | 564 | 5737 | 0.05% | 0.003% |
| 297 | 15.347 | 15.332 | 15.366 | VV | 603 | 9144 | 0.09% | 0.004% |
| 298 | 15.387 | 15.366 | 15.418 | VV | 891 | 22177 | 0.21% | 0.011% |
| 299 | 15.425 | 15.418 | 15.431 | VV | 683 | 4797 | 0.05% | 0.002% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

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|---|---|---|---|---|---|---|---|---|
| 300 | 15.440 | 15.431 | 15.472 | VV | 892 | 12451 | 0.12% | 0.006% |
| 301 | 15.482 | 15.472 | 15.500 | VV | 520 | 6938 | | |
| 302 | 15.560 | 15.500 | 15.599 | VV | 63593 | 822749 | | |
| 303 | 15.612 | 15.599 | 15.642 | VV | 690 | 11763 | | |
| 304 | 15.654 | 15.642 | 15.662 | VV | 241 | 1968 | | |
| 305 | 15.686 | 15.662 | 15.694 | VV | 322 | 3833 | | |
| 306 | 15.702 | 15.694 | 15.728 | VV | 424 | 5633 | 0.05% | 0.003% |
| 307 | 15.739 | 15.728 | 15.757 | PV | 255 | 2167 | 0.02% | 0.001% |
| 308 | 15.763 | 15.757 | 15.783 | VV | 251 | 1370 | 0.01% | 0.001% |
| 309 | 15.818 | 15.783 | 15.837 | VV | 407 | 6870 | 0.07% | 0.003% |
| 310 | 15.866 | 15.847 | 15.875 | PV | 330 | 2581 | 0.02% | 0.001% |
| 311 | 15.889 | 15.875 | 15.899 | VV | 338 | 3174 | 0.03% | 0.002% |
| 312 | 15.929 | 15.899 | 15.958 | VV | 2008 | 38044 | 0.36% | 0.019% |
| 313 | 16.002 | 15.958 | 16.015 | VV | 666187 | 9217980 | 87.57% | 4.499% |
| 314 | 16.037 | 16.015 | 16.093 | VV | 764057 | 9191243 | 87.32% | 4.486% |
| 315 | 16.113 | 16.093 | 16.145 | VV | 4988 | 83283 | 0.79% | 0.041% |
| 316 | 16.167 | 16.145 | 16.226 | VV | 1768 | 51757 | 0.49% | 0.025% |
| 317 | 16.257 | 16.226 | 16.286 | VV | 1952 | 36235 | 0.34% | 0.018% |
| 318 | 16.293 | 16.286 | 16.306 | VV | 604 | 6477 | 0.06% | 0.003% |
| 319 | 16.311 | 16.306 | 16.320 | VV | 591 | 3673 | 0.03% | 0.002% |
| 320 | 16.326 | 16.320 | 16.329 | VV | 514 | 2472 | 0.02% | 0.001% |
| 321 | 16.378 | 16.329 | 16.447 | VV | 649204 | 8689339 | 82.55% | 4.241% |
| 322 | 16.502 | 16.447 | 16.529 | VV | 58757 | 893719 | 8.49% | 0.436% |
| 323 | 16.544 | 16.529 | 16.621 | VV | 6270 | 105931 | 1.01% | 0.052% |
| 324 | 16.629 | 16.621 | 16.642 | VV | 491 | 4812 | 0.05% | 0.002% |
| 325 | 16.647 | 16.642 | 16.652 | VV | 429 | 2068 | 0.02% | 0.001% |
| 326 | 16.667 | 16.652 | 16.674 | VV | 464 | 4826 | 0.05% | 0.002% |
| 327 | 16.700 | 16.674 | 16.705 | VV | 504 | 7694 | 0.07% | 0.004% |
| 328 | 16.711 | 16.705 | 16.726 | VV | 462 | 4565 | 0.04% | 0.002% |
| 329 | 16.732 | 16.726 | 16.736 | VV | 388 | 1988 | 0.02% | 0.001% |
| 330 | 16.741 | 16.736 | 16.760 | VV | 475 | 4303 | 0.04% | 0.002% |
| 331 | 16.794 | 16.760 | 16.809 | VV | 621 | 12532 | 0.12% | 0.006% |
| 332 | 16.819 | 16.809 | 16.841 | VV | 691 | 8659 | 0.08% | 0.004% |
| 333 | 16.867 | 16.841 | 16.902 | VV | 1564 | 36107 | 0.34% | 0.018% |
| 334 | 16.908 | 16.902 | 16.917 | VV | 589 | 4544 | 0.04% | 0.002% |
| 335 | 16.948 | 16.917 | 17.002 | VV | 2196 | 44956 | 0.43% | 0.022% |
| 336 | 17.014 | 17.002 | 17.025 | PV | 260 | 2846 | 0.03% | 0.001% |
| 337 | 17.035 | 17.025 | 17.045 | VV | 489 | 4022 | 0.04% | 0.002% |
| 338 | 17.066 | 17.045 | 17.112 | VV | 689 | 17395 | 0.17% | 0.008% |
| 339 | 17.121 | 17.112 | 17.128 | VV | 484 | 3517 | 0.03% | 0.002% |
| 340 | 17.132 | 17.128 | 17.157 | VV | 411 | 5060 | 0.05% | 0.002% |
| 341 | 17.162 | 17.157 | 17.174 | VV | 237 | 2183 | 0.02% | 0.001% |
| 342 | 17.191 | 17.174 | 17.198 | VV | 439 | 4313 | 0.04% | 0.002% |
| 343 | 17.243 | 17.198 | 17.257 | VV | 804 | 17267 | 0.16% | 0.008% |
| 344 | 17.278 | 17.257 | 17.318 | VV | 914 | 20495 | 0.19% | 0.010% |
| 345 | 17.388 | 17.318 | 17.425 | VV | 55312 | 760340 | 7.22% | 0.371% |
| 346 | 17.433 | 17.425 | 17.443 | VV | 475 | 3470 | 0.03% | 0.002% |
| 347 | 17.449 | 17.443 | 17.453 | VV | 273 | 1221 | 0.01% | 0.001% |
| 348 | 17.474 | 17.453 | 17.501 | VV | 1293 | 18336 | 0.17% | 0.009% |
| 349 | 17.523 | 17.509 | 17.551 | VV | 369 | 4933 | 0.05% | 0.002% |
| 350 | 17.556 | 17.551 | 17.561 | VV | 300 | 1221 | 0.01% | 0.001% |
| 351 | 17.583 | 17.561 | 17.597 | VV | 306 | 3511 | 0.03% | 0.002% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 352 | 17.603 | 17.597 | 17.626 | VV | 229 | 1586 | 0.02% | 0.001% |
| 353 | 17.648 | 17.626 | 17.654 | PV | 379 | 2846 | 0 | |
| 354 | 17.682 | 17.654 | 17.695 | VV | 840 | 14173 | 0 | |
| 355 | 17.746 | 17.695 | 17.759 | VV | 600103 | 8607331 | 81 | |
| 356 | 17.783 | 17.759 | 17.951 | VV | 608980 | 8199801 | 77 | |
| 357 | 17.999 | 17.951 | 18.105 | VV | 570749 | 8226142 | 78 | |
| 358 | 18.111 | 18.105 | 18.126 | VV | 482 | 4240 | 0.04% | 0.002% |
| 359 | 18.139 | 18.126 | 18.149 | PV | 253 | 2192 | 0.02% | 0.001% |
| 360 | 18.171 | 18.149 | 18.176 | VV | 229 | 2314 | 0.02% | 0.001% |

Sum of corrected areas: 204893017

Aromatic EPH 111424.M Tue Nov 19 06:21:25 2024

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

# Manual Integration Report

| Sequence: | FC111424AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 5 PPM ALIPHATIC HC | FC067752.D | n-Hexatriacontane (C36) | yogesh | 11/15/2024 9:29:46 AM | Ankita | 11/15/2024 10:13:22 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | FC111824AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4839-21 | FC067803.D | 1-chlorooctadecane (SURR) | yogesh | 11/19/2024 8:13:54 AM | Ankita | 11/19/2024 4:48:38 | Peak Integrated by Software |
| PB165032BS | FC067808.D | n-Tetracontane (C40) | yogesh | 11/19/2024 8:13:55 AM | Ankita | 11/19/2024 4:48:41 | Peak Integrated by Software |
| P4839-22MSD | FC067812.D | n-Dodecane (C12) | yogesh | 11/19/2024 8:13:57 AM | Ankita | 11/19/2024 4:48:42 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | FD111424AR | Instrument | FID_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 10 PPM AROMATIC HC | FD048732.D | Acenaphthylene (C15.06) | yogesh | 11/15/2024 9:30:06 AM | Ankita | 11/15/2024 10:08:28 | Peak Integrated by Software |
| 5 PPM AROMATIC HC | FD048733.D | Acenaphthylene (C15.06) | yogesh | 11/15/2024 9:30:08 AM | Ankita | 11/15/2024 10:08:30 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | FD111824AR | Instrument | FID_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 20 PPM AROMATIC HC | FD048757.D | benzo[b]fluoranthene (C30.41) | yogesh | 11/19/2024 9:14:39 AM | Ankita | 11/19/2024 4:49:00 | Peak Integrated by Software |
| 20 PPM AROMATIC HC | FD048757.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 11/19/2024 9:14:39 AM | Ankita | 11/19/2024 4:49:00 | Peak Integrated by Software |
| P4839-21 | FD048762.D | 2-Bromonaphthalene (SURR) | yogesh | 11/19/2024 9:14:42 AM | Ankita | 11/19/2024 4:49:01 | Peak Integrated by Software |
| PB165032BS | FD048767.D | Fluoranthene (C21.85) | yogesh | 11/19/2024 9:14:43 AM | Ankita | 11/19/2024 4:49:03 | Peak Integrated by Software |
| PB165032BSD | FD048768.D | Fluoranthene (C21.85) | yogesh | 11/19/2024 9:14:44 AM | Ankita | 11/19/2024 4:49:04 | Peak Integrated by Software |
| P4839-22MS | FD048770.D | 1,2,3-Trimethylbenzene (C10.1) | yogesh | 11/19/2024 9:14:46 AM | Ankita | 11/19/2024 4:49:05 | Peak Integrated by Software |
| P4839-22MS | FD048770.D | Fluoranthene (C21.85) | yogesh | 11/19/2024 9:14:46 AM | Ankita | 11/19/2024 4:49:05 | Peak Integrated by Software |
| P4839-22MSD | FD048771.D | Fluoranthene (C21.85) | yogesh | 11/19/2024 9:14:48 AM | Ankita | 11/19/2024 4:49:07 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FF111524AR | Instrument | FID_f |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | FF111924AR | Instrument | FID_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PP23988 | FF015094.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 11/20/2024 11:53:21 AM | Ankita | 11/21/2024 10:02:32 | Peak Integrated by Software |
| PP23988 | FF015094.D | Dibenz[a,h]anthracene (C30.36) | yogesh | 11/20/2024 11:53:21 AM | Ankita | 11/21/2024 10:02:32 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FG111424AL | Instrument | FID_g |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | FG111924AL | Instrument | FID_g |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4860-02 | FG014869.D | 1-chlorooctadecane (SURR) | yogesh | 11/20/2024 11:53:38 AM | Ankita | 11/21/2024 10:02:10 | Peak Integrated by Software |
| PB165088BS | FG014873.D | n-Tetracosane (C24) | yogesh | 11/20/2024 11:53:39 AM | Ankita | 11/21/2024 10:02:13 | Peak Integrated by Software |
| PB165088BSD | FG014874.D | n-Tetracosane (C24) | yogesh | 11/20/2024 11:53:40 AM | Ankita | 11/21/2024 10:02:16 | Peak Integrated by Software |
| P4910-01D | FG014876.D | 1-chlorooctadecane (SURR) | yogesh | 11/20/2024 11:53:42 AM | Ankita | 11/21/2024 10:02:17 | Peak Integrated by Software |
| P4910-01MS | FG014877.D | n-Tetracosane (C24) | yogesh | 11/20/2024 11:53:43 AM | Ankita | 11/21/2024 10:02:18 | Peak Integrated by Software |
| P4910-01MSD | FG014878.D | n-Tetracosane (C24) | yogesh | 11/20/2024 11:53:46 AM | Ankita | 11/21/2024 10:02:20 | Peak Integrated by Software |

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 11:18:40 AM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 10:13:25 AM | | |
| SubDirectory | FC111424AL | HP Acquire Method | | HP Processing Method | FC111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FC067746.D | 14 Nov 2024 08:52 | YP/AJ | Ok |
| 2 | I.BLK | FC067747.D | 14 Nov 2024 09:27 | YP/AJ | Ok |
| 3 | 100 PPM ALIPHATIC HC STD1 | FC067748.D | 14 Nov 2024 10:39 | YP/AJ | Ok |
| 4 | 50 PPM ALIPHATIC HC STD2 | FC067749.D | 14 Nov 2024 11:15 | YP/AJ | Ok |
| 5 | 20 PPM ALIPHATIC HC STD3 | FC067750.D | 14 Nov 2024 11:51 | YP/AJ | Ok |
| 6 | 10 PPM ALIHPHATIC HC STD4 | FC067751.D | 14 Nov 2024 12:27 | YP/AJ | Ok |
| 7 | 5 PPM ALIPHATIC HC STD5 | FC067752.D | 14 Nov 2024 13:03 | YP/AJ | Ok,M |
| 8 | 20 PPM ALIPHATIC HC STD ICV | FC067753.D | 14 Nov 2024 13:49 | YP/AJ | Ok |
| 9 | I.BLK | FC067754.D | 14 Nov 2024 14:24 | YP/AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC STD | FC067755.D | 14 Nov 2024 15:00 | YP/AJ | Ok |
| 11 | PB164966BL | FC067756.D | 14 Nov 2024 15:36 | YP/AJ | Ok |
| 12 | PB164966BS | FC067757.D | 14 Nov 2024 16:13 | YP/AJ | Ok |
| 13 | PB164966BSD | FC067758.D | 14 Nov 2024 16:49 | YP/AJ | Ok |
| 14 | P4833-01 | FC067759.D | 14 Nov 2024 17:25 | YP/AJ | Ok |
| 15 | P4833-01D | FC067760.D | 14 Nov 2024 18:02 | YP/AJ | Ok |
| 16 | P4833-01MS | FC067761.D | 14 Nov 2024 18:38 | YP/AJ | Ok |
| 17 | P4833-01MSD | FC067762.D | 14 Nov 2024 19:14 | YP/AJ | Ok |
| 18 | P4833-02 | FC067763.D | 15 Nov 2024 02:06 | YP/AJ | Ok |
| 19 | P4833-05 | FC067764.D | 15 Nov 2024 02:41 | YP/AJ | Ok |
| 20 | P4833-06 | FC067765.D | 15 Nov 2024 03:17 | YP/AJ | Ok |
| 21 | I.BLK | FC067766.D | 15 Nov 2024 04:58 | YP/AJ | Ok |

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 11:18:40 AM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 10:13:25 AM | | |
| SubDirectory | FC111424AL | HP Acquire Method | | HP Processing Method | FC111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | 20 PPM ALIPHATIC HC STD | FC067767.D | 15 Nov 2024 05:34 | YP/AJ | Ok |

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:56:08 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:46 PM | | |
| SubDirectory | FC111824AL | HP Acquire Method | | HP Processing Method | FC111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FC067796.D | 18 Nov 2024 07:38 | YP/AJ | Ok |
| 2 | I.BLK | FC067797.D | 18 Nov 2024 08:13 | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC STD | FC067798.D | 18 Nov 2024 08:49 | YP/AJ | Ok |
| 4 | P4839-07DL | FC067799.D | 18 Nov 2024 09:25 | YP/AJ | Ok |
| 5 | P4839-09DL | FC067800.D | 18 Nov 2024 10:02 | YP/AJ | Ok |
| 6 | P4839-10DL | FC067801.D | 18 Nov 2024 10:38 | YP/AJ | Not Ok |
| 7 | P4839-13DL | FC067802.D | 18 Nov 2024 11:41 | YP/AJ | Ok |
| 8 | P4839-21 | FC067803.D | 18 Nov 2024 12:18 | YP/AJ | Dilution |
| 9 | P4839-22 | FC067804.D | 18 Nov 2024 12:55 | YP/AJ | Ok |
| 10 | I.BLK | FC067805.D | 18 Nov 2024 14:15 | YP/AJ | Ok |
| 11 | 20 PPM ALIPHATIC HC STD | FC067806.D | 18 Nov 2024 14:50 | YP/AJ | Ok |
| 12 | PB165032BL | FC067807.D | 18 Nov 2024 15:27 | YP/AJ | Ok |
| 13 | PB165032BS | FC067808.D | 18 Nov 2024 16:03 | YP/AJ | Ok,M |
| 14 | PB165032BSD | FC067809.D | 18 Nov 2024 16:39 | YP/AJ | Ok |
| 15 | P4839-22D | FC067810.D | 18 Nov 2024 17:16 | YP/AJ | Ok |
| 16 | P4839-22MS | FC067811.D | 18 Nov 2024 23:41 | YP/AJ | Ok |
| 17 | P4839-22MSD | FC067812.D | 19 Nov 2024 00:17 | YP/AJ | Ok,M |
| 18 | P4860-03 | FC067813.D | 19 Nov 2024 00:53 | YP/AJ | Ok |
| 19 | P4860-04 | FC067814.D | 19 Nov 2024 02:45 | YP/AJ | Ok |
| 20 | P4860-06 | FC067815.D | 19 Nov 2024 07:59 | YP/AJ | Ok |
| 21 | P4860-05 | FC067816.D | 19 Nov 2024 08:37 | YP/AJ | Ok |

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:56:08 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:46 PM | | |
| SubDirectory | FC111824AL | HP Acquire Method | | HP Processing Method | FC111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | I.BLK | FC067817.D | 19 Nov 2024 09:20 | YP/AJ | Ok |
| 23 | 20 PPM ALIPHATIC HC STD | FC067818.D | 19 Nov 2024 10:04 | YP/AJ | Ok |
| 24 | P4839-11DL | FC067819.D | 19 Nov 2024 10:40 | YP/AJ | Ok |
| 25 | P4839-21DL | FC067820.D | 19 Nov 2024 11:17 | YP/AJ | Dilution |
| 26 | P4839-21DL2 | FC067821.D | 19 Nov 2024 11:54 | YP/AJ | Ok |
| 27 | I.BLK | FC067822.D | 19 Nov 2024 12:32 | YP/AJ | Ok |
| 28 | 20 PPM ALIPHATIC HC STD | FC067823.D | 19 Nov 2024 13:09 | YP/AJ | Ok |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD111424AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 11:28:45 AM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 10:08:51 AM | | |
| SubDirectory | FD111424AR | HP Acquire Method | | HP Processing Method | FD111424AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23968,PP23970,PP23971,PP23972,PP23973 |
| CCC | PP23971 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23969,PP23974 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FD048727.D | 14 Nov 2024 08:52 | YP/AJ | Ok |
| 2 | I.BLK | FD048728.D | 14 Nov 2024 09:27 | YP/AJ | Ok |
| 3 | 100 PPM AROMATIC HC STD1 | FD048729.D | 14 Nov 2024 10:39 | YP/AJ | Ok |
| 4 | 50 PPM AROMATIC HC STD2 | FD048730.D | 14 Nov 2024 11:15 | YP/AJ | Ok |
| 5 | 20 PPM AROMATIC HC STD3 | FD048731.D | 14 Nov 2024 11:51 | YP/AJ | Ok |
| 6 | 10 PPM AROMATIC HC STD4 | FD048732.D | 14 Nov 2024 12:27 | YP/AJ | Ok,M |
| 7 | 5 PPM AROMATIC HC STD5 | FD048733.D | 14 Nov 2024 13:03 | YP/AJ | Ok,M |
| 8 | 20 PPM AROMATIC HC STD ICV | FD048734.D | 14 Nov 2024 13:49 | YP/AJ | Ok |
| 9 | I.BLK | FD048735.D | 14 Nov 2024 14:24 | YP/AJ | Ok |
| 10 | 20 PPM AROMATIC HC STD | FD048736.D | 14 Nov 2024 15:00 | YP/AJ | Ok |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:57:00 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:49:11 PM | | |
| SubDirectory | FD111824AR | HP Acquire Method | | HP Processing Method | FD111424AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23968,PP23970,PP23971,PP23972,PP23973 |
| CCC | PP23971 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23969,PP23974 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FD048755.D | 18 Nov 2024 07:38 | YP/AJ | Ok |
| 2 | I.BLK | FD048756.D | 18 Nov 2024 08:13 | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC STD | FD048757.D | 18 Nov 2024 08:49 | YP/AJ | Ok,M |
| 4 | P4839-09DL | FD048758.D | 18 Nov 2024 09:25 | YP/AJ | Ok |
| 5 | P4839-13DL | FD048759.D | 18 Nov 2024 10:02 | YP/AJ | Ok |
| 6 | P4860-01 | FD048760.D | 18 Nov 2024 10:38 | YP/AJ | Ok |
| 7 | P4860-02 | FD048761.D | 18 Nov 2024 11:41 | YP/AJ | Ok |
| 8 | P4839-21 | FD048762.D | 18 Nov 2024 12:18 | YP/AJ | Dilution |
| 9 | P4839-22 | FD048763.D | 18 Nov 2024 12:55 | YP/AJ | Ok |
| 10 | I.BLK | FD048764.D | 18 Nov 2024 14:15 | YP/AJ | Ok |
| 11 | 20 PPM AROMATIC HC STD | FD048765.D | 18 Nov 2024 14:50 | YP/AJ | Ok |
| 12 | PB165032BL | FD048766.D | 18 Nov 2024 15:27 | YP/AJ | Ok |
| 13 | PB165032BS | FD048767.D | 18 Nov 2024 16:03 | YP/AJ | Ok,M |
| 14 | PB165032BSD | FD048768.D | 18 Nov 2024 16:39 | YP/AJ | Ok,M |
| 15 | P4839-22D | FD048769.D | 18 Nov 2024 17:16 | YP/AJ | Ok |
| 16 | P4839-22MS | FD048770.D | 18 Nov 2024 23:41 | YP/AJ | Ok,M |
| 17 | P4839-22MSD | FD048771.D | 19 Nov 2024 00:17 | YP/AJ | Ok,M |
| 18 | P4860-03 | FD048772.D | 19 Nov 2024 00:53 | YP/AJ | Ok |
| 19 | P4860-04 | FD048773.D | 19 Nov 2024 02:45 | YP/AJ | Ok |
| 20 | P4860-06 | FD048774.D | 19 Nov 2024 07:59 | YP/AJ | Ok |
| 21 | P4860-05 | FD048775.D | 19 Nov 2024 08:37 | YP/AJ | Ok |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:57:00 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:49:11 PM | | |
| SubDirectory | FD111824AR | HP Acquire Method | | HP Processing Method | FD111424AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23968,PP23970,PP23971,PP23972,PP23973 |
| CCC | PP23971 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23969,PP23974 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | I.BLK | FD048776.D | 19 Nov 2024 09:20 | YP/AJ | Ok |
| 23 | 20 PPM AROMATIC HC STD | FD048777.D | 19 Nov 2024 10:04 | YP/AJ | Ok |
| 24 | P4839-21DL | FD048778.D | 19 Nov 2024 10:40 | YP/AJ | Ok |
| 25 | I.BLK | FD048779.D | 19 Nov 2024 11:17 | YP/AJ | Ok |
| 26 | 20 PPM AROMATIC HC STD | FD048780.D | 19 Nov 2024 11:54 | YP/AJ | Ok |
| 27 | P4839-02 | FD048781.D | 19 Nov 2024 13:45 | YP/AJ | Ok |
| 28 | I.BLK | FD048782.D | 19 Nov 2024 14:59 | YP/AJ | Ok |
| 29 | 20 PPM AROMATIC HC STD | FD048783.D | 19 Nov 2024 15:36 | YP/AJ | Ok |

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**Instrument ID: FID_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # FF111524AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 3:44:42 PM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 9:15:19 AM | | |
| SubDirectory | FF111524AR | HP Acquire Method | | HP Processing Method | FF111524AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23968,PP23970,PP23971,PP23972,PP23973 |
| CCC | PP23971 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23969,PP23974 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FF015041.D | 14 Nov 2024 16:37 | YP\AJ | Ok |
| 2 | I.BLK | FF015042.D | 14 Nov 2024 17:05 | YP\AJ | Ok |
| 3 | 100 PPM AROMATIC HC STD1 | FF015043.D | 14 Nov 2024 17:34 | YP\AJ | Ok |
| 4 | 50 PPM AROMATIC HC STD2 | FF015044.D | 14 Nov 2024 18:02 | YP\AJ | Ok |
| 5 | 20 PPM AROMATIC HC STD3 | FF015045.D | 14 Nov 2024 18:30 | YP\AJ | Ok |
| 6 | 10 PPM AROMATIC HC STD4 | FF015046.D | 14 Nov 2024 18:58 | YP\AJ | Ok |
| 7 | 5 PPM AROMATIC HC STD5 | FF015047.D | 14 Nov 2024 19:27 | YP\AJ | Ok |
| 8 | 20 PPM AROMATIC HC STD ICV | FF015048.D | 14 Nov 2024 19:55 | YP\AJ | Ok |
| 9 | I.BLK | FF015049.D | 14 Nov 2024 20:52 | YP\AJ | Ok |
| 10 | 20 PPM AROMATIC HC STD | FF015050.D | 14 Nov 2024 21:20 | YP\AJ | Ok |

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**Instrument ID: FID_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # FF111924AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:19:41 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:38 AM | | |
| SubDirectory | FF111924AR | HP Acquire Method | | HP Processing Method | FF111524AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23968,PP23970,PP23971,PP23972,PP23973 |
| CCC | PP23971 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23969,PP23974 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FF015091.D | 19 Nov 2024 08:39 | YP\AJ | Ok |
| 2 | I.BLK | FF015092.D | 19 Nov 2024 09:08 | YP\AJ | Ok |
| 3 | 20 PPM AROMATIC HC STD | FF015093.D | 19 Nov 2024 10:15 | YP\AJ | Ok |
| 4 | PP23988 | FF015094.D | 19 Nov 2024 10:51 | YP\AJ | Ok,M |
| 5 | P4860-07 | FF015095.D | 19 Nov 2024 11:19 | YP\AJ | Ok |
| 6 | P4860-08 | FF015096.D | 19 Nov 2024 11:47 | YP\AJ | Ok |
| 7 | P4860-09 | FF015097.D | 19 Nov 2024 12:16 | YP\AJ | Ok |
| 8 | P4860-10 | FF015098.D | 19 Nov 2024 12:44 | YP\AJ | Ok |
| 9 | I.BLK | FF015099.D | 19 Nov 2024 13:43 | YP\AJ | Ok |
| 10 | 20 PPM AROMATIC HC STD | FF015100.D | 19 Nov 2024 14:11 | YP\AJ | Ok |

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**Instrument ID: FID_G**

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111424AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 3:47:34 PM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 9:15:07 AM | | |
| SubDirectory | FG111424AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FG014779.D | 14 Nov 2024 13:20 | YP\AJ | Ok |
| 2 | I.BLK | FG014780.D | 14 Nov 2024 13:48 | YP\AJ | Ok |
| 3 | 100 PPM ALIPHATIC HC STD1 | FG014781.D | 14 Nov 2024 14:16 | YP\AJ | Ok |
| 4 | 50 PPM ALIPHATIC HC STD2 | FG014782.D | 14 Nov 2024 14:44 | YP\AJ | Ok |
| 5 | 20 PPM ALIPHATIC HC STD3 | FG014783.D | 14 Nov 2024 15:12 | YP\AJ | Ok |
| 6 | 10 PPM ALIPHATIC HC STD4 | FG014784.D | 14 Nov 2024 15:41 | YP\AJ | Ok |
| 7 | 5 PPM ALIPHATIC HC STD5 | FG014785.D | 14 Nov 2024 16:09 | YP\AJ | Ok |
| 8 | 20 PPM ALIPHATIC HC STD ICV | FG014786.D | 14 Nov 2024 16:37 | YP\AJ | Ok |
| 9 | I.BLK | FG014787.D | 14 Nov 2024 17:34 | YP\AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC STD | FG014788.D | 14 Nov 2024 18:02 | YP\AJ | Ok |

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**Instrument ID: FID_G**

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111924AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:22:16 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:24 AM | | |
| SubDirectory | FG111924AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FG014860.D | 19 Nov 2024 08:39 | YP\AJ | Ok |
| 2 | I.BLK | FG014861.D | 19 Nov 2024 09:08 | YP\AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC STD | FG014862.D | 19 Nov 2024 10:15 | YP\AJ | Ok |
| 4 | PP23989 | FG014863.D | 19 Nov 2024 10:51 | YP\AJ | Ok |
| 5 | P4860-07 | FG014864.D | 19 Nov 2024 11:19 | YP\AJ | Ok |
| 6 | P4860-08 | FG014865.D | 19 Nov 2024 11:47 | YP\AJ | Ok |
| 7 | P4860-09 | FG014866.D | 19 Nov 2024 12:16 | YP\AJ | Ok |
| 8 | P4860-10 | FG014867.D | 19 Nov 2024 12:44 | YP\AJ | Ok |
| 9 | P4860-01 | FG014868.D | 19 Nov 2024 13:12 | YP\AJ | Ok |
| 10 | P4860-02 | FG014869.D | 19 Nov 2024 13:43 | YP\AJ | Ok,M |
| 11 | I.BLK | FG014870.D | 19 Nov 2024 14:11 | YP\AJ | Ok |
| 12 | 20 PPM ALIPHATIC HC STD | FG014871.D | 19 Nov 2024 14:40 | YP\AJ | Ok |
| 13 | PB165088BL | FG014872.D | 19 Nov 2024 15:12 | YP\AJ | Ok |
| 14 | PB165088BS | FG014873.D | 19 Nov 2024 15:40 | YP\AJ | Ok,M |
| 15 | PB165088BSD | FG014874.D | 19 Nov 2024 16:09 | YP\AJ | Ok,M |
| 16 | P4910-01 | FG014875.D | 19 Nov 2024 16:37 | YP\AJ | Ok |
| 17 | P4910-01D | FG014876.D | 19 Nov 2024 17:05 | YP\AJ | Ok,M |
| 18 | P4910-01MS | FG014877.D | 19 Nov 2024 17:34 | YP\AJ | Ok,M |
| 19 | P4910-01MSD | FG014878.D | 19 Nov 2024 18:02 | YP\AJ | Ok,M |
| 20 | P4910-02 | FG014879.D | 19 Nov 2024 18:30 | YP\AJ | Ok |
| 21 | I.BLK | FG014880.D | 19 Nov 2024 18:59 | YP\AJ | Ok |

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**Instrument ID: FID_G**

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111924AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:22:16 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:24 AM | | |
| SubDirectory | FG111924AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | 20 PPM ALIPHATIC HC STD | FG014881.D | 19 Nov 2024 19:27 | YP\AJ | Ok |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 11:18:40 AM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 10:13:25 AM | | |
| SubDirectory | FC111424AL | HP Acquire Method | | HP Processing Method | FC111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FC067746.D | 14 Nov 2024 08:52 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FC067747.D | 14 Nov 2024 09:27 | | YP/AJ | Ok |
| 3 | 100 PPM ALIPHATIC H | 100 PPM ALIPHATIC H | FC067748.D | 14 Nov 2024 10:39 | | YP/AJ | Ok |
| 4 | 50 PPM ALIPHATIC HC | 50 PPM ALIPHATIC HC | FC067749.D | 14 Nov 2024 11:15 | | YP/AJ | Ok |
| 5 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067750.D | 14 Nov 2024 11:51 | | YP/AJ | Ok |
| 6 | 10 PPM ALIHPHATIC H | 10 PPM ALIHPHATIC H | FC067751.D | 14 Nov 2024 12:27 | | YP/AJ | Ok |
| 7 | 5 PPM ALIPHATIC HC | 5 PPM ALIPHATIC HC | FC067752.D | 14 Nov 2024 13:03 | | YP/AJ | Ok,M |
| 8 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067753.D | 14 Nov 2024 13:49 | | YP/AJ | Ok |
| 9 | I.BLK | I.BLK | FC067754.D | 14 Nov 2024 14:24 | | YP/AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067755.D | 14 Nov 2024 15:00 | | YP/AJ | Ok |
| 11 | PB164966BL | PB164966BL | FC067756.D | 14 Nov 2024 15:36 | | YP/AJ | Ok |
| 12 | PB164966BS | PB164966BS | FC067757.D | 14 Nov 2024 16:13 | | YP/AJ | Ok |
| 13 | PB164966BSD | PB164966BSD | FC067758.D | 14 Nov 2024 16:49 | | YP/AJ | Ok |
| 14 | P4833-01 | MH-731 | FC067759.D | 14 Nov 2024 17:25 | | YP/AJ | Ok |
| 15 | P4833-01D | P4833-01D | FC067760.D | 14 Nov 2024 18:02 | | YP/AJ | Ok |
| 16 | P4833-01MS | MH-731MS | FC067761.D | 14 Nov 2024 18:38 | FC067759.D | YP/AJ | Ok |
| 17 | P4833-01MSD | P4833-01MSD | FC067762.D | 14 Nov 2024 19:14 | FC067759.D!FC067762.D | YP/AJ | Ok |
| 18 | P4833-02 | MH-731-EPH | FC067763.D | 15 Nov 2024 02:06 | | YP/AJ | Ok |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 11:18:40 AM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 10:13:25 AM | | |
| SubDirectory | FC111424AL | HP Acquire Method | | HP Processing Method | FC111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4833-05 | TP-2 | FC067764.D | 15 Nov 2024 02:41 | | YP/AJ | Ok |
| 20 | P4833-06 | TP-2-EPH | FC067765.D | 15 Nov 2024 03:17 | | YP/AJ | Ok |
| 21 | I.BLK | I.BLK | FC067766.D | 15 Nov 2024 04:58 | | YP/AJ | Ok |
| 22 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067767.D | 15 Nov 2024 05:34 | | YP/AJ | Ok |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:56:08 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:46 PM | | |
| SubDirectory | FC111824AL | HP Acquire Method | | HP Processing Method | FC111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FC067796.D | 18 Nov 2024 07:38 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FC067797.D | 18 Nov 2024 08:13 | | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067798.D | 18 Nov 2024 08:49 | | YP/AJ | Ok |
| 4 | P4839-07DL | EX-9-TPH-15DL | FC067799.D | 18 Nov 2024 09:25 | | YP/AJ | Ok |
| 5 | P4839-09DL | EX-9-TPH-17DL | FC067800.D | 18 Nov 2024 10:02 | | YP/AJ | Ok |
| 6 | P4839-10DL | P4839-10DL | FC067801.D | 18 Nov 2024 10:38 | not required | YP/AJ | Not Ok |
| 7 | P4839-13DL | EX-9-TPH-21DL | FC067802.D | 18 Nov 2024 11:41 | | YP/AJ | Ok |
| 8 | P4839-21 | EX-4-TPH-5 | FC067803.D | 18 Nov 2024 12:18 | Need 10X,20X | YP/AJ | Dilution |
| 9 | P4839-22 | EX-4-TPH-6 | FC067804.D | 18 Nov 2024 12:55 | | YP/AJ | Ok |
| 10 | I.BLK | I.BLK | FC067805.D | 18 Nov 2024 14:15 | | YP/AJ | Ok |
| 11 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067806.D | 18 Nov 2024 14:50 | | YP/AJ | Ok |
| 12 | PB165032BL | PB165032BL | FC067807.D | 18 Nov 2024 15:27 | | YP/AJ | Ok |
| 13 | PB165032BS | PB165032BS | FC067808.D | 18 Nov 2024 16:03 | | YP/AJ | Ok,M |
| 14 | PB165032BSD | PB165032BSD | FC067809.D | 18 Nov 2024 16:39 | | YP/AJ | Ok |
| 15 | P4839-22D | P4839-22D | FC067810.D | 18 Nov 2024 17:16 | | YP/AJ | Ok |
| 16 | P4839-22MS | EX-4-TPH-6MS | FC067811.D | 18 Nov 2024 23:41 | FC067804.D | YP/AJ | Ok |
| 17 | P4839-22MSD | EX-4-TPH-6MSD | FC067812.D | 19 Nov 2024 00:17 | FC067804.D!FC067811.D | YP/AJ | Ok,M |
| 18 | P4860-03 | PH2-BOT-002 | FC067813.D | 19 Nov 2024 00:53 | | YP/AJ | Ok |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:56:08 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:46 PM | | |
| SubDirectory | FC111824AL | HP Acquire Method | | HP Processing Method | FC111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4860-04 | PH2-BOT-003 | FC067814.D | 19 Nov 2024 02:45 | | YP/AJ | Ok |
| 20 | P4860-06 | PH2-BOT-009 | FC067815.D | 19 Nov 2024 07:59 | | YP/AJ | Ok |
| 21 | P4860-05 | PH2-BOT-004 | FC067816.D | 19 Nov 2024 08:37 | | YP/AJ | Ok |
| 22 | I.BLK | I.BLK | FC067817.D | 19 Nov 2024 09:20 | | YP/AJ | Ok |
| 23 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067818.D | 19 Nov 2024 10:04 | | YP/AJ | Ok |
| 24 | P4839-11DL | EX-9-TPH-19DL | FC067819.D | 19 Nov 2024 10:40 | | YP/AJ | Ok |
| 25 | P4839-21DL | EX-4-TPH-5DL | FC067820.D | 19 Nov 2024 11:17 | Need-more Dilution | YP/AJ | Dilution |
| 26 | P4839-21DL2 | EX-4-TPH-5DL2 | FC067821.D | 19 Nov 2024 11:54 | | YP/AJ | Ok |
| 27 | I.BLK | I.BLK | FC067822.D | 19 Nov 2024 12:32 | | YP/AJ | Ok |
| 28 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067823.D | 19 Nov 2024 13:09 | | YP/AJ | Ok |

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD111424AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 11:28:45 AM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 10:08:51 AM | | |
| SubDirectory | FD111424AR | HP Acquire Method | | HP Processing Method | FD111424AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23968,PP23970,PP23971,PP23972,PP23973 |
| CCC | PP23971 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23969,PP23974 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FD048727.D | 14 Nov 2024 08:52 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FD048728.D | 14 Nov 2024 09:27 | | YP/AJ | Ok |
| 3 | 100 PPM AROMATIC H | 100 PPM AROMATIC H | FD048729.D | 14 Nov 2024 10:39 | | YP/AJ | Ok |
| 4 | 50 PPM AROMATIC HC | 50 PPM AROMATIC HC | FD048730.D | 14 Nov 2024 11:15 | | YP/AJ | Ok |
| 5 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048731.D | 14 Nov 2024 11:51 | | YP/AJ | Ok |
| 6 | 10 PPM AROMATIC HC | 10 PPM AROMATIC HC | FD048732.D | 14 Nov 2024 12:27 | | YP/AJ | Ok,M |
| 7 | 5 PPM AROMATIC HC | 5 PPM AROMATIC HC | FD048733.D | 14 Nov 2024 13:03 | | YP/AJ | Ok,M |
| 8 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048734.D | 14 Nov 2024 13:49 | | YP/AJ | Ok |
| 9 | I.BLK | I.BLK | FD048735.D | 14 Nov 2024 14:24 | | YP/AJ | Ok |
| 10 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048736.D | 14 Nov 2024 15:00 | | YP/AJ | Ok |

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:57:00 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:49:11 PM | | |
| SubDirectory | FD111824AR | HP Acquire Method | | HP Processing Method | FD111424AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23968,PP23970,PP23971,PP23972,PP23973 |
| CCC | PP23971 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23969,PP23974 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FD048755.D | 18 Nov 2024 07:38 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FD048756.D | 18 Nov 2024 08:13 | | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048757.D | 18 Nov 2024 08:49 | | YP/AJ | Ok,M |
| 4 | P4839-09DL | EX-9-TPH-17DL | FD048758.D | 18 Nov 2024 09:25 | | YP/AJ | Ok |
| 5 | P4839-13DL | EX-9-TPH-21DL | FD048759.D | 18 Nov 2024 10:02 | | YP/AJ | Ok |
| 6 | P4860-01 | DUP-01 | FD048760.D | 18 Nov 2024 10:38 | | YP/AJ | Ok |
| 7 | P4860-02 | PH2-BOT-001 | FD048761.D | 18 Nov 2024 11:41 | | YP/AJ | Ok |
| 8 | P4839-21 | EX-4-TPH-5 | FD048762.D | 18 Nov 2024 12:18 | Need 10X | YP/AJ | Dilution |
| 9 | P4839-22 | EX-4-TPH-6 | FD048763.D | 18 Nov 2024 12:55 | | YP/AJ | Ok |
| 10 | I.BLK | I.BLK | FD048764.D | 18 Nov 2024 14:15 | | YP/AJ | Ok |
| 11 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048765.D | 18 Nov 2024 14:50 | | YP/AJ | Ok |
| 12 | PB165032BL | PB165032BL | FD048766.D | 18 Nov 2024 15:27 | | YP/AJ | Ok |
| 13 | PB165032BS | PB165032BS | FD048767.D | 18 Nov 2024 16:03 | | YP/AJ | Ok,M |
| 14 | PB165032BSD | PB165032BSD | FD048768.D | 18 Nov 2024 16:39 | | YP/AJ | Ok,M |
| 15 | P4839-22D | P4839-22D | FD048769.D | 18 Nov 2024 17:16 | | YP/AJ | Ok |
| 16 | P4839-22MS | EX-4-TPH-6MS | FD048770.D | 18 Nov 2024 23:41 | FD048763.D | YP/AJ | Ok,M |
| 17 | P4839-22MSD | EX-4-TPH-6MSD | FD048771.D | 19 Nov 2024 00:17 | FD048763.D!FD048770.D | YP/AJ | Ok,M |
| 18 | P4860-03 | PH2-BOT-002 | FD048772.D | 19 Nov 2024 00:53 | | YP/AJ | Ok |

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:57:00 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:49:11 PM | | |
| SubDirectory | FD111824AR | HP Acquire Method | | HP Processing Method | FD111424AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23968,PP23970,PP23971,PP23972,PP23973 |
| CCC | PP23971 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23969,PP23974 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4860-04 | PH2-BOT-003 | FD048773.D | 19 Nov 2024 02:45 | | YP/AJ | Ok |
| 20 | P4860-06 | PH2-BOT-009 | FD048774.D | 19 Nov 2024 07:59 | | YP/AJ | Ok |
| 21 | P4860-05 | PH2-BOT-004 | FD048775.D | 19 Nov 2024 08:37 | | YP/AJ | Ok |
| 22 | I.BLK | I.BLK | FD048776.D | 19 Nov 2024 09:20 | | YP/AJ | Ok |
| 23 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048777.D | 19 Nov 2024 10:04 | | YP/AJ | Ok |
| 24 | P4839-21DL | EX-4-TPH-5DL | FD048778.D | 19 Nov 2024 10:40 | | YP/AJ | Ok |
| 25 | I.BLK | I.BLK | FD048779.D | 19 Nov 2024 11:17 | | YP/AJ | Ok |
| 26 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048780.D | 19 Nov 2024 11:54 | | YP/AJ | Ok |
| 27 | P4839-02 | EX-9-TPH-10 | FD048781.D | 19 Nov 2024 13:45 | | YP/AJ | Ok |
| 28 | I.BLK | I.BLK | FD048782.D | 19 Nov 2024 14:59 | | YP/AJ | Ok |
| 29 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048783.D | 19 Nov 2024 15:36 | | YP/AJ | Ok |

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Fax : 908 789 8922

**Instrument ID:** FID_F

## Daily Analysis Runlog For Sequence/QCBatch ID # FF111524AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 3:44:42 PM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 9:15:19 AM | | |
| SubDirectory | FF111524AR | HP Acquire Method | | HP Processing Method | FF111524AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23968,PP23970,PP23971,PP23972,PP23973 |
| CCC | PP23971 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23969,PP23974 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FF015041.D | 14 Nov 2024 16:37 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | FF015042.D | 14 Nov 2024 17:05 | | YP\AJ | Ok |
| 3 | 100 PPM AROMATIC H | 100 PPM AROMATIC H | FF015043.D | 14 Nov 2024 17:34 | | YP\AJ | Ok |
| 4 | 50 PPM AROMATIC HC | 50 PPM AROMATIC HC | FF015044.D | 14 Nov 2024 18:02 | | YP\AJ | Ok |
| 5 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF015045.D | 14 Nov 2024 18:30 | | YP\AJ | Ok |
| 6 | 10 PPM AROMATIC HC | 10 PPM AROMATIC HC | FF015046.D | 14 Nov 2024 18:58 | | YP\AJ | Ok |
| 7 | 5 PPM AROMATIC HC | 5 PPM AROMATIC HC | FF015047.D | 14 Nov 2024 19:27 | | YP\AJ | Ok |
| 8 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF015048.D | 14 Nov 2024 19:55 | | YP\AJ | Ok |
| 9 | I.BLK | I.BLK | FF015049.D | 14 Nov 2024 20:52 | | YP\AJ | Ok |
| 10 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF015050.D | 14 Nov 2024 21:20 | | YP\AJ | Ok |

M : Manual Integration

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

**Instrument ID:** FID_F

## Daily Analysis Runlog For Sequence/QCBatch ID # FF111924AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:19:41 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:38 AM | | |
| SubDirectory | FF111924AR | HP Acquire Method | | HP Processing Method | FF111524AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23968,PP23970,PP23971,PP23972,PP23973 |
| CCC | PP23971 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23969,PP23974 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FF015091.D | 19 Nov 2024 08:39 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | FF015092.D | 19 Nov 2024 09:08 | | YP\AJ | Ok |
| 3 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF015093.D | 19 Nov 2024 10:15 | | YP\AJ | Ok |
| 4 | PP23988 | PP23988 | FF015094.D | 19 Nov 2024 10:51 | | YP\AJ | Ok,M |
| 5 | P4860-07 | PH2-BOT-008 | FF015095.D | 19 Nov 2024 11:19 | | YP\AJ | Ok |
| 6 | P4860-08 | PH2-BOT-007 | FF015096.D | 19 Nov 2024 11:47 | | YP\AJ | Ok |
| 7 | P4860-09 | PH2-BOT-006 | FF015097.D | 19 Nov 2024 12:16 | | YP\AJ | Ok |
| 8 | P4860-10 | PH2-BOT-005 | FF015098.D | 19 Nov 2024 12:44 | | YP\AJ | Ok |
| 9 | I.BLK | I.BLK | FF015099.D | 19 Nov 2024 13:43 | | YP\AJ | Ok |
| 10 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF015100.D | 19 Nov 2024 14:11 | | YP\AJ | Ok |

M : Manual Integration

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

**Instrument ID:** FID_G

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111424AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 3:47:34 PM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 9:15:07 AM | | |
| SubDirectory | FG111424AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FG014779.D | 14 Nov 2024 13:20 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | FG014780.D | 14 Nov 2024 13:48 | | YP\AJ | Ok |
| 3 | 100 PPM ALIPHATIC H | 100 PPM ALIPHATIC H | FG014781.D | 14 Nov 2024 14:16 | | YP\AJ | Ok |
| 4 | 50 PPM ALIPHATIC HC | 50 PPM ALIPHATIC HC | FG014782.D | 14 Nov 2024 14:44 | | YP\AJ | Ok |
| 5 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014783.D | 14 Nov 2024 15:12 | | YP\AJ | Ok |
| 6 | 10 PPM ALIPHATIC HC | 10 PPM ALIPHATIC HC | FG014784.D | 14 Nov 2024 15:41 | | YP\AJ | Ok |
| 7 | 5 PPM ALIPHATIC HC | 5 PPM ALIPHATIC HC | FG014785.D | 14 Nov 2024 16:09 | | YP\AJ | Ok |
| 8 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014786.D | 14 Nov 2024 16:37 | | YP\AJ | Ok |
| 9 | I.BLK | I.BLK | FG014787.D | 14 Nov 2024 17:34 | | YP\AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014788.D | 14 Nov 2024 18:02 | | YP\AJ | Ok |

M : Manual Integration

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

**Instrument ID:** FID_G

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111924AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:22:16 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:24 AM | | |
| SubDirectory | FG111924AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FG014860.D | 19 Nov 2024 08:39 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | FG014861.D | 19 Nov 2024 09:08 | | YP\AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014862.D | 19 Nov 2024 10:15 | | YP\AJ | Ok |
| 4 | PP23989 | PP23989 | FG014863.D | 19 Nov 2024 10:51 | | YP\AJ | Ok |
| 5 | P4860-07 | PH2-BOT-008 | FG014864.D | 19 Nov 2024 11:19 | | YP\AJ | Ok |
| 6 | P4860-08 | PH2-BOT-007 | FG014865.D | 19 Nov 2024 11:47 | | YP\AJ | Ok |
| 7 | P4860-09 | PH2-BOT-006 | FG014866.D | 19 Nov 2024 12:16 | | YP\AJ | Ok |
| 8 | P4860-10 | PH2-BOT-005 | FG014867.D | 19 Nov 2024 12:44 | | YP\AJ | Ok |
| 9 | P4860-01 | DUP-01 | FG014868.D | 19 Nov 2024 13:12 | | YP\AJ | Ok |
| 10 | P4860-02 | PH2-BOT-001 | FG014869.D | 19 Nov 2024 13:43 | | YP\AJ | Ok,M |
| 11 | I.BLK | I.BLK | FG014870.D | 19 Nov 2024 14:11 | | YP\AJ | Ok |
| 12 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014871.D | 19 Nov 2024 14:40 | | YP\AJ | Ok |
| 13 | PB165088BL | PB165088BL | FG014872.D | 19 Nov 2024 15:12 | | YP\AJ | Ok |
| 14 | PB165088BS | PB165088BS | FG014873.D | 19 Nov 2024 15:40 | | YP\AJ | Ok,M |
| 15 | PB165088BSD | PB165088BSD | FG014874.D | 19 Nov 2024 16:09 | | YP\AJ | Ok,M |
| 16 | P4910-01 | MH-COTTAGE | FG014875.D | 19 Nov 2024 16:37 | | YP\AJ | Ok |
| 17 | P4910-01D | P4910-01D | FG014876.D | 19 Nov 2024 17:05 | | YP\AJ | Ok,M |
| 18 | P4910-01MS | MH-COTTAGEMS | FG014877.D | 19 Nov 2024 17:34 | FG014875.D | YP\AJ | Ok,M |

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Fax : 908 789 8922

**Instrument ID:** FID_G

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111924AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:22:16 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:24 AM | | |
| SubDirectory | FG111924AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23644,PP23646,PP23647,PP23648,PP23649 |
| CCC | PP23647 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23645,PP23650 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4910-01MSD | MH-COTTAGEMSD | FG014878.D | 19 Nov 2024 18:02 | FG014875.D!FG014877.D | YP\AJ | Ok,M |
| 20 | P4910-02 | MH-COTTAGE-EPH | FG014879.D | 19 Nov 2024 18:30 | | YP\AJ | Ok |
| 21 | I.BLK | I.BLK | FG014880.D | 19 Nov 2024 18:59 | | YP\AJ | Ok |
| 22 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014881.D | 19 Nov 2024 19:27 | | YP\AJ | Ok |

M : Manual Integration

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 11/18/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:25
**In Date:** 11/15/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:22
**Out Date:** 11/16/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133466

| 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 |
|---|---|---|---|---|---|---|---|---|
| P4851-01 | OK-02-11142024 | 1 | 1.15 | 8.40 | 9.55 | 9.06 | 94.2 | |
| P4851-02 | OK-02-11142024-E2 | 2 | 1.16 | 8.50 | 9.66 | 9.32 | 96.0 | |
| P4860-01 | DUP-01 | 15 | 1.15 | 8.38 | 9.53 | 9.26 | 96.8 | |
| P4860-02 | PH2-BPT-001 | 16 | 1.18 | 8.50 | 9.68 | 9.41 | 96.8 | |
| P4860-03 | PH2-BPT-002 | 17 | 1.16 | 8.47 | 9.63 | 9.34 | 96.6 | |
| P4860-04 | PH2-BPT-003 | 18 | 1.15 | 8.49 | 9.64 | 9.45 | 97.8 | |
| P4860-05 | PH2-BPT-004 | 19 | 1.16 | 8.78 | 9.94 | 9.77 | 98.1 | |
| P4860-06 | PH2-BPT-009 | 20 | 1.19 | 8.59 | 9.78 | 9.63 | 98.3 | |
| P4860-07 | PH2-BPT-008 | 21 | 1.16 | 8.48 | 9.64 | 9.37 | 96.8 | |
| P4860-08 | PH2-BPT-007 | 22 | 1.16 | 8.48 | 9.64 | 9.47 | 98.0 | |
| P4860-09 | PH2-BPT-006 | 23 | 1.15 | 8.81 | 9.96 | 9.74 | 97.5 | |
| P4860-10 | PH2-BPT-005 | 24 | 1.13 | 8.85 | 9.98 | 9.77 | 97.6 | |
| P4862-01 | Y2404-0033-END-1-1 | 45 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4862-02 | Y2404-0033-END-1-2 | 46 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4862-03 | Y2404-END-1-1 | 47 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4862-04 | Y2404-END-1-2 | 48 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4862-05 | KMH4671-END-1-1 | 49 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4862-06 | KMH4671-END-1-2 | 50 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4862-07 | W029060-END-1-1 | 51 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4862-08 | W029060-END-1-2 | 52 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4865-01 | 02-9042-1-1 | 41 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4865-02 | 02-9042-1-2 | 42 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4865-03 | BC271303-1-1 | 43 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4865-04 | BC271303-1-2 | 44 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4869-01 | EO-02-11152024 | 53 | 1.16 | 8.50 | 9.66 | 8.89 | 90.9 | |
| P4869-02 | EO-02-11152024-E2 | 54 | 1.18 | 8.52 | 9.7 | 9.1 | 93.0 | |
| P4870-01 | TP-1 | 3 | 1.14 | 8.69 | 9.83 | 8.9 | 89.3 | |
| P4870-02 | TP-1-EPH | 4 | 1.15 | 8.45 | 9.6 | 8.61 | 88.3 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 11/18/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:25
**In Date:** 11/15/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:22
**Out Date:** 11/16/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133466

| 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 |
|---|---|---|---|---|---|---|---|---|
| P4870-03 | TP-1-VOC | 5 | 1.12 | 8.75 | 9.87 | 8.84 | 88.2 | |
| P4870-04 | MH-735 | 6 | 1.18 | 8.59 | 9.77 | 8.84 | 89.2 | |
| P4870-05 | MH-735-EPH | 7 | 1.18 | 8.42 | 9.6 | 8.68 | 89.1 | |
| P4870-06 | MH-735-VOC | 8 | 1.18 | 8.47 | 9.65 | 8.71 | 88.9 | |
| P4870-07 | MH-736 | 9 | 1.19 | 8.63 | 9.82 | 8.85 | 88.8 | |
| P4870-08 | MH-736-EPH | 10 | 1.12 | 8.66 | 9.78 | 8.92 | 90.1 | |
| P4870-09 | MH-736-VOC | 11 | 1.16 | 8.80 | 9.96 | 9.1 | 90.2 | |
| P4870-10 | TP-15 | 12 | 1.18 | 8.73 | 9.91 | 8.77 | 86.9 | |
| P4870-11 | TP-15-EPH | 13 | 1.19 | 8.71 | 9.9 | 8.73 | 86.6 | |
| P4870-12 | TP-15-VOC | 14 | 1.18 | 8.42 | 9.6 | 8.54 | 87.4 | |
| P4886-05 | SVOC-GPC-BLANK | 25 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4886-06 | PEST-GPC-BLANK | 26 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4886-07 | PEST-GPC-BLANK-SPIKE | 27 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4886-08 | PCB-GPC-BLANK | 28 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4886-09 | PCB-GPC-BLANK-SPIKE | 29 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4886-10 | SVOC-GPC2-BLANK | 30 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4886-11 | PEST-GPC2-BLANK | 31 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4886-12 | PEST-GPC2-BLANK-SPIKE | 32 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4886-13 | PCB-GPC2-BLANK | 33 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4886-14 | PCB-GPC2-BLANK-SPIKE | 34 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4887-01 | MH-739 | 35 | 1.15 | 8.83 | 9.98 | 9.2 | 91.2 | |
| P4887-03 | MH-739-EPH | 36 | 1.17 | 8.60 | 9.77 | 8.94 | 90.3 | |
| P4887-04 | MH-739-VOC | 37 | 1.12 | 8.68 | 9.8 | 8.62 | 86.4 | |
| P4887-05 | MH-760 | 38 | 1.15 | 8.40 | 9.55 | 8.56 | 88.2 | |
| P4887-07 | MH-760-EPH | 39 | 1.15 | 8.83 | 9.98 | 9.14 | 90.5 | |
| P4887-08 | MH-760-VOC | 40 | 1.14 | 8.81 | 9.95 | 9.4 | 93.8 | |
| P4889-01 | VNJ-228 | 55 | 1.17 | 8.55 | 9.72 | 8.96 | 91.1 | |
| P4889-02 | VNJ-228-VOC | 56 | 1.15 | 8.72 | 9.87 | 8.87 | 88.5 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 11/18/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:25
**In Date:** 11/15/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:22
**Out Date:** 11/16/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133466

| 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 |
|---|---|---|---|---|---|---|---|---|
| P4889-03 | #72-11978 | 57 | 1.18 | 8.63 | 9.81 | 9.14 | 92.2 | |
| P4889-04 | #72-11978-VOC | 58 | 1.13 | 8.76 | 9.89 | 9.41 | 94.5 | |
| P4889-05 | #72-11930 | 59 | 1.14 | 8.84 | 9.98 | 9.4 | 93.4 | |
| P4889-06 | #72-11930-VOC | 60 | 1.14 | 8.84 | 9.98 | 9.52 | 94.8 | |

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

# WORKLIST(Hardcopy Internal Chain)

VB 133466

**WorkList Name :** %1-111524 **WorkList ID :** 185446 **Department :** Wet-Chemistry **Date :** 11-15-2024 07:57:13

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4851-01 | OK-02-11142024 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | L41 | 11/14/2024 | Chemtech -SO |
| P4851-02 | OK-02-11142024-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | L41 | 11/14/2024 | Chemtech -SO |
| P4860-01 | DUP-01 | Solid | Percent Solids | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | Chemtech -SO |
| P4860-02 | PH2-BPT-001 | Solid | Percent Solids | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | Chemtech -SO |
| P4860-03 | PH2-BPT-002 | Solid | Percent Solids | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | Chemtech -SO |
| P4860-04 | PH2-BPT-003 | Solid | Percent Solids | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | Chemtech -SO |
| P4860-05 | PH2-BPT-004 | Solid | Percent Solids | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | Chemtech -SO |
| P4860-06 | PH2-BPT-009 | Solid | Percent Solids | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | Chemtech -SO |
| P4860-07 | PH2-BPT-008 | Solid | Percent Solids | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | Chemtech -SO |
| P4860-08 | PH2-BPT-007 | Solid | Percent Solids | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | Chemtech -SO |
| P4860-09 | PH2-BPT-006 | Solid | Percent Solids | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | Chemtech -SO |
| P4860-10 | PH2-BPT-005 | Solid | Percent Solids | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | Chemtech -SO |
| P4862-01 | Y2404-0033-END-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4862-02 | Y2404-0033-END-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4862-03 | Y2404-END-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4862-04 | Y2404-END-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4862-05 | KMH4671-END-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4862-06 | KMH4671-END-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4862-07 | W029060-END-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4862-08 | W029060-END-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4865-01 | 02-9042-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |

**Date/Time** 11-15-24 15:35

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

**Date/Time** 11-15-24 17:30

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

# WORKLIST(Hardcopy Internal Chain)

VB133466

**WorkList Name :** %1-111524 **WorkList ID :** 185446 **Department :** Wet-Chemistry **Date :** 11-15-2024 07:57:13

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4865-02 | 02-9042-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4865-03 | BC271303-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4865-04 | BC271303-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4869-01 | EO-02-11152024 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | M11 | 11/15/2024 | Chemtech -SO |
| P4869-02 | EO-02-11152024-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | M11 | 11/15/2024 | Chemtech -SO |
| P4870-01 | TP-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-02 | TP-1-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-03 | TP-1-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-04 | MH-735 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-05 | MH-735-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-06 | MH-735-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-07 | MH-736 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-08 | MH-736-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-09 | MH-736-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-10 | TP-15 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-11 | TP-15-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4870-12 | TP-15-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/14/2024 | Chemtech -SO |
| P4886-05 | SVOC-GPC-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | M11 | 11/15/2024 | Chemtech -SO |
| P4886-06 | PEST-GPC-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | M11 | 11/15/2024 | Chemtech -SO |
| P4886-07 | PEST-GPC-BLANK-SPIKE | Solid | Percent Solids | Cool 4 deg C | CHEM02 | M11 | 11/15/2024 | Chemtech -SO |
| P4886-08 | PCB-GPC-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | M11 | 11/15/2024 | Chemtech -SO |

**Date/Time** 11.15.24 15:35

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

**Date/Time** 11.15.24 17:30

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

# WORKLIST(Hardcopy Internal Chain)

NB 133466

**WorkList Name :** %1-111524 **WorkList ID :** 185446 **Department :** Wet-Chemistry **Date :** 11-15-2024 07:57:13

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4886-09 | PCB-GPC-BLANK-SPIKE | Solid | Percent Solids | Cool 4 deg C | CHEM02 | M11 | 11/15/2024 | Chemtech -SO |
| P4886-10 | SVOC-GPC2-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | M11 | 11/15/2024 | Chemtech -SO |
| P4886-11 | PEST-GPC2-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | M11 | 11/15/2024 | Chemtech -SO |
| P4886-12 | PEST-GPC2-BLANK-SPIKE | Solid | Percent Solids | Cool 4 deg C | CHEM02 | M11 | 11/15/2024 | Chemtech -SO |
| P4886-13 | PCB-GPC2-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | M11 | 11/15/2024 | Chemtech -SO |
| P4886-14 | PCB-GPC2-BLANK-SPIKE | Solid | Percent Solids | Cool 4 deg C | CHEM02 | M11 | 11/15/2024 | Chemtech -SO |
| P4887-01 | MH-739 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4887-03 | MH-739-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4887-04 | MH-739-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4887-05 | MH-760 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4887-07 | MH-760-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4887-08 | MH-760-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4889-01 | VNJ-228 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4889-02 | VNJ-228-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4889-03 | #72-11978 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4889-04 | #72-11978-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4889-05 | #72-11930 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |
| P4889-06 | #72-11930-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | Chemtech -SO |

**Date/Time** 11-15-24 15:35

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]



**Date/Time** 11-15-24 17:30

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB165032

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | MNJDEP-EPH-7 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 11/16/2024 |
| **Matrix :** | Solid | | | **Extraction Start Time :** | 09:30 |
| **Weigh By:** | RJ | **Extraction By:** | RJ | **Extraction End Date :** | 11/16/2024 |
| **Balance check:** | RJ | **Filter By:** | RJ | **Extraction End Time :** | 16:50 |
| **Balance ID:** | EX-SC-2 | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | N/A | **Hood ID:** | 3,7 | **Supervisor By :** | rajesh |

**Extraction Method:** [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 100 PPM | PP23916 |
| Surrogate | 1.0ML | 100 PPM | PP23934 |
| Fractionation Surrogate | 1.0ML | 100 PPM | PP23948 |
| 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 | EP2560 |
| Baked Na2SO4 | N/A | EP2562 |
| Sand | N/A | E2865 |
| Hexane | N/A | E3826 |
| EPH Cartridge | N/A | E3757 |
| 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 | **Envap ID:** | NEVAP-02 |
| **KD Bath Temperature:** | N/A | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/18/24 | RP (Ext. Lab) | Y.P.Post/ABS. |
| 9:05 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB165032**

**Analytical Method:** MNJDEP-EPH-7

**Concentration Date:** 11/16/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB165032BL | PB165032BL | EPH | 30.01 | N/A | ritesh | Evelyn | 2 | | | U5-1 |
| PB165032BS | PB165032BS | EPH | 30.02 | N/A | ritesh | Evelyn | 2 | | | 2 |
| PB165032BSD | PB165032BSD | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | | | 3 |
| P4839-21 | EX-4-TPH-5 | EPH | 30.06 | N/A | ritesh | Evelyn | 2 | E | | 4 |
| P4839-22 | EX-4-TPH-6 | EPH | 30.07 | N/A | ritesh | Evelyn | 2 | E | | 5 |
| P4839-22DUP | EX-4-TPH-6DUP | EPH | 30.02 | N/A | ritesh | Evelyn | 2 | E | | 6 |
| P4839-22MS | EX-4-TPH-6MS | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | E | | U6-1 |
| P4839-22MSD | EX-4-TPH-6MSD | EPH | 30.05 | N/A | ritesh | Evelyn | 2 | E | | 2 |
| P4860-01 | DUP-01 | EPH | 30.10 | N/A | ritesh | Evelyn | 2 | E | | 3 |
| P4860-02 | PH2-BPT-001 | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | E | | 4 |
| P4860-03 | PH2-BPT-002 | EPH | 30.02 | N/A | ritesh | Evelyn | 2 | E | | 5 |
| P4860-04 | PH2-BPT-003 | EPH | 30.09 | N/A | ritesh | Evelyn | 2 | E | | 6 |
| P4860-05 | PH2-BPT-004 | EPH | 30.05 | N/A | ritesh | Evelyn | 2 | E | | U1-1 |
| P4860-06 | PH2-BPT-009 | EPH | 30.04 | N/A | ritesh | Evelyn | 2 | E | | 2 |
| P4860-07 | PH2-BPT-008 | EPH | 30.01 | N/A | ritesh | Evelyn | 2 | E | | 3 |
| P4860-08 | PH2-BPT-007 | EPH | 30.08 | N/A | ritesh | Evelyn | 2 | E | | 4 |
| P4860-09 | PH2-BPT-006 | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | E | | 5 |
| P4860-10 | PH2-BPT-005 | EPH | 30.06 | N/A | ritesh | Evelyn | 2 | E | | 6 |

* **Extracts relinguished on the same date as received.**

11/16/24

16503
9:30

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4860N **WorkList ID :** 185500 **Department :** Extraction **Date :** 11-16-2024 08:05:16

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4839-21 | EX-4-TPH-5 | Solid | EPH | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | NJEPH |
| P4839-22 | EX-4-TPH-6 | Solid | EPH | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | NJEPH |
| P4860-01 | DUP-01 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-02 | PH2-BPT-001 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-03 | PH2-BPT-002 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-04 | PH2-BPT-003 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-05 | PH2-BPT-004 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-06 | PH2-BPT-009 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-07 | PH2-BPT-008 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-08 | PH2-BPT-007 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-09 | PH2-BPT-006 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-10 | PH2-BPT-005 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |

**Date/Time** 11/16/24 9:25
**Raw Sample Received by:** RJ (Client Log)
**Raw Sample Relinquished by:** [signature]



**Date/Time** 11/16/24 10:04
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** RJ (Client Log)

# SHIPPING DOCUMENTS

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P4860
QUOTE NO.
COC Number 2042292

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Cornerstone Env. Group
ADDRESS: 100 Crystal Run Rd Suite 101
CITY Middletown STATE: NY ZIP: 10941
ATTENTION:
PHONE: 845-695-0200 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: OCLF Ph 2 Post-Excavation Sample
PROJECT NO.: 209-424325 LOCATION: Manchester NJ
PROJECT MANAGER: John Guiliano
e-mail: John.Guiliano@tetratech.com
PHONE: 845-695-0200 FAX:

### CLIENT BILLING INFORMATION

BILL TO: Cornerstone Env. Group PO#:
ADDRESS: 100 Crystal Run Rd Suite 101
CITY Middletown STATE: NY ZIP: 10941
ATTENTION: PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☒ EDD FORMAT _____

### ANALYSIS

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| TCL T+30 TAL 8260B + 8270E | 8081B | 8082A | 6010D/7471B | 9012B | NJEPH | 7196A | 9045D | 8260D | Chemtech - SOP |

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | DUP - 01 | Soil | X | | 11-14-24 | 12:00 | 10 | X | X | X | X | X | X | X | X | X | |
| 2. | PH2 - BOT - 001 | | | | | 8:20 | | X | X | X | X | X | X | X | X | X | |
| 3. | PH2 - BOT - 002 | | | | | 8:45 | | X | X | X | X | X | X | X | X | X | |
| 4. | PH2 - BOT - 003 | | | | | 9:05 | | X | X | X | X | X | X | X | X | X | |
| 5. | PH2 - BOT - 004 | | | | | 9:25 | | X | X | X | X | X | X | X | X | X | |
| 6. | PH2 - BOT - 009 | | | | | 9:45 | | X | X | X | X | X | X | X | X | X | |
| 7. | PH2 - BOT - 008 | | | | | 10:00 | | X | X | X | X | X | X | X | X | X | |
| 8. | PH2 - BOT - 007 | | | | | 10:15 | | X | X | X | X | X | X | X | X | X | |
| 9. | PH2 - BOT - 006 | | | | | 10:30 | | X | X | X | X | X | X | X | X | X | |
| 10. | PH2 - BOT - 005 | | | | | 10:45 | | X | X | X | X | X | X | X | X | X | |

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 11-14-24 1115 | 1. 11-14-24 |
| 2. | | 2. |
| 3. | 11-14-24 1830 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
Comments:

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☑ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| CAS EPA CLP Contract | 68HERH20D0011 |
| Connecticut | PH-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 |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P4860 CORN02
**Client Name :** Tetra Tech
**Client Contact :** John Giuliano
**Invoice Name :** Tetra Tech
**Invoice Contact :** John Giuliano

**Order Date :** 11/14/2024 1:36:41 PM
**Project Name :** Ocean County Landfill 202
**Receive DateTime :** 11/14/2024 6:30:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** NJ Reduced
**EDD Type :** Excel NJ
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| P4860-01 | DUP-01 | Solid | 11/14/2024 | 12:00 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-02 | BOT PH2-BPT-001 | Solid | 11/14/2024 | 08:20 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-03 | BOT PH2-BPT-002 | Solid | 11/14/2024 | 08:45 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-04 | BOT PH2-BPT-003 | Solid | 11/14/2024 | 09:05 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-05 | BOT PH2-BPT-004 | Solid | 11/14/2024 | 09:25 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-06 | BOT PH2-BPT-009 | Solid | 11/14/2024 | 09:45 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-07 | BOT PH2-BPT-008 | Solid | 11/14/2024 | 10:00 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-08 | BOT PH2-BPT-007 | Solid | 11/14/2024 | 10:15 | | | | | |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P4860 CORN02
**Client Name :** Tetra Tech
**Client Contact :** John Giuliano
**Invoice Name :** Tetra Tech
**Invoice Contact :** John Giuliano

**Order Date :** 11/14/2024 1:36:41 PM
**Project Name :** Ocean County Landfill 202
**Receive DateTime :** 11/14/2024 6:30:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** NJ Reduced
**EDD Type :** Excel NJ
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| P4860-09 | BOT PH2-BPT-006 | Solid | 11/14/2024 | 10:30 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-10 | BOT PH2-BPT-005 | Solid | 11/14/2024 | 10:45 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| | | | | | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |

**Relinguished By :** _____
**Date / Time :** 11/15/24 1130

**Received By :** _____
**Date / Time :** 11.15.24 1:30

**Storage Area :** **VOA Refridgerator Room**