# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1764 (RHMW08)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100166-001
**Collection Date:** 09/30/2021 18:55
**Date Received:** 10/04/2021
**Report Date:** 10/11/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.039 | | SW8015C | 10/6/2021 06:32/amn | GCFID-HP5-B_211004B : 7 | 159988 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.039 | | SW8015C | 10/8/2021 05:03/amn | GCFID-HP5-B_211007B : 6 | 159988 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.087 | | SW8015C | 10/6/2021 06:32/amn | GCFID-HP5-B_211004B : 7 | 159988 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.087 | | SW8015C | 10/8/2021 05:03/amn | GCFID-HP5-B_211007B : 6 | 159988 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.074 | | SW8015C | 10/6/2021 06:32/amn | GCFID-HP5-B_211004B : 7 | 159988 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.033 | | SW8015C | 10/8/2021 05:03/amn | GCFID-HP5-B_211007B : 6 | 159988 |
| Surr: o-Terphenyl | 102.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/6/2021 06:32/amn | GCFID-HP5-B_211004B : 7 | 159988 |
| Surr: o-Terphenyl (SGT) | 87.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/8/2021 05:03/amn | GCFID-HP5-B_211007B : 6 | 159988 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1765 (RHMW09)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100166-002
**Collection Date:** 09/30/2021 17:15
**Date Received:** 10/04/2021
**Report Date:** 10/11/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/6/2021 11:54/amn | GCFID-HP5-B_211004B : 12 | 159988 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.037 | | SW8015C | 10/8/2021 05:55/amn | GCFID-HP5-B_211007B : 7 | 159988 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.085 | | SW8015C | 10/6/2021 11:54/amn | GCFID-HP5-B_211004B : 12 | 159988 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.085 | | SW8015C | 10/8/2021 05:55/amn | GCFID-HP5-B_211007B : 7 | 159988 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.072 | | SW8015C | 10/6/2021 11:54/amn | GCFID-HP5-B_211004B : 12 | 159988 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.032 | | SW8015C | 10/8/2021 05:55/amn | GCFID-HP5-B_211007B : 7 | 159988 |
| Surr: o-Terphenyl | 92.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/6/2021 11:54/amn | GCFID-HP5-B_211004B : 12 | 159988 |
| Surr: o-Terphenyl (SGT) | 94.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/8/2021 05:55/amn | GCFID-HP5-B_211007B : 7 | 159988 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1766 (RHMW10)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100166-003
**Collection Date:** 09/30/2021 16:00
**Date Received:** 10/04/2021
**Report Date:** 10/11/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/6/2021 12:42/amn | GCFID-HP5-B_211004B : 13 | 159988 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.037 | | SW8015C | 10/8/2021 11:27/amn | GCFID-HP5-B_211007B : 12 | 159988 |
| Oil Range Hydrocarbons (C24 to C40) | 0.14 | mg/L | 1 | J | 0.30 | 0.14 | 0.085 | | SW8015C | 10/6/2021 12:42/amn | GCFID-HP5-B_211004B : 13 | 159988 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.085 | | SW8015C | 10/8/2021 11:27/amn | GCFID-HP5-B_211007B : 12 | 159988 |
| Total Extractable Hydrocarbons | 0.21 | mg/L | 1 | J | 0.30 | 0.14 | 0.072 | | SW8015C | 10/6/2021 12:42/amn | GCFID-HP5-B_211004B : 13 | 159988 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.032 | | SW8015C | 10/8/2021 11:27/amn | GCFID-HP5-B_211007B : 12 | 159988 |
| Surr: o-Terphenyl | 85.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/6/2021 12:42/amn | GCFID-HP5-B_211004B : 13 | 159988 |
| Surr: o-Terphenyl (SGT) | 94.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/8/2021 11:27/amn | GCFID-HP5-B_211007B : 12 | 159988 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1769 (RHMW19)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100166-004
**Collection Date:** 09/30/2021 13:55
**Date Received:** 10/04/2021
**Report Date:** 10/11/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.082 | mg/L | 1 | J | 0.30 | 0.15 | 0.038 | | SW8015C | 10/6/2021 13:29/amn | GCFID-HP5-B_211004B : 14 | 159988 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.038 | | SW8015C | 10/8/2021 12:16/amn | GCFID-HP5-B_211007B : 13 | 159988 |
| Oil Range Hydrocarbons (C24 to C40) | 0.38 | mg/L | 1 | | 0.30 | 0.15 | 0.086 | | SW8015C | 10/6/2021 13:29/amn | GCFID-HP5-B_211004B : 14 | 159988 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.086 | | SW8015C | 10/8/2021 12:16/amn | GCFID-HP5-B_211007B : 13 | 159988 |
| Total Extractable Hydrocarbons | 0.57 | mg/L | 1 | | 0.30 | 0.15 | 0.073 | | SW8015C | 10/6/2021 13:29/amn | GCFID-HP5-B_211004B : 14 | 159988 |
| Total Extractable Hydrocarbons (SGT) | 0.037 | mg/L | 1 | J | 0.30 | 0.12 | 0.032 | | SW8015C | 10/8/2021 12:16/amn | GCFID-HP5-B_211007B : 13 | 159988 |
| Surr: o-Terphenyl | 60.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/6/2021 13:29/amn | GCFID-HP5-B_211004B : 14 | 159988 |
| Surr: o-Terphenyl (SGT) | 66.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/8/2021 12:16/amn | GCFID-HP5-B_211007B : 13 | 159988 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1762 (RHMW04)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100166-005
**Collection Date:** 10/01/2021 13:10
**Date Received:** 10/04/2021
**Report Date:** 10/11/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.047 | mg/L | 1 | J | 0.30 | 0.15 | 0.038 | | SW8015C | 10/6/2021 11:07/amn | GCFID-HP5-B_211004B : 11 | 159988 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.038 | | SW8015C | 10/8/2021 06:43/amn | GCFID-HP5-B_211007B : 8 | 159988 |
| Oil Range Hydrocarbons (C24 to C40) | 0.17 | mg/L | 1 | J | 0.30 | 0.15 | 0.085 | | SW8015C | 10/6/2021 11:07/amn | GCFID-HP5-B_211004B : 11 | 159988 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.085 | | SW8015C | 10/8/2021 06:43/amn | GCFID-HP5-B_211007B : 8 | 159988 |
| Total Extractable Hydrocarbons | 0.29 | mg/L | 1 | J | 0.30 | 0.15 | 0.073 | | SW8015C | 10/6/2021 11:07/amn | GCFID-HP5-B_211004B : 11 | 159988 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.032 | | SW8015C | 10/8/2021 06:43/amn | GCFID-HP5-B_211007B : 8 | 159988 |
| Surr: o-Terphenyl | 90.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/6/2021 11:07/amn | GCFID-HP5-B_211004B : 11 | 159988 |
| Surr: o-Terphenyl (SGT) | 61.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/8/2021 06:43/amn | GCFID-HP5-B_211007B : 8 | 159988 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1763 (RHMW06)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100166-006
**Collection Date:** 10/01/2021 14:35
**Date Received:** 10/04/2021
**Report Date:** 10/11/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.038 | | SW8015C | 10/6/2021 15:57/amn | GCFID-HP5-B_211004B : 15 | 159988 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.038 | | SW8015C | 10/8/2021 13:02/amn | GCFID-HP5-B_211007B : 14 | 159988 |
| Oil Range Hydrocarbons (C24 to C40) | 0.15 | mg/L | 1 | J | 0.30 | 0.15 | 0.086 | | SW8015C | 10/6/2021 15:57/amn | GCFID-HP5-B_211004B : 15 | 159988 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.086 | | SW8015C | 10/8/2021 13:02/amn | GCFID-HP5-B_211007B : 14 | 159988 |
| Total Extractable Hydrocarbons | 0.22 | mg/L | 1 | J | 0.30 | 0.15 | 0.073 | | SW8015C | 10/6/2021 15:57/amn | GCFID-HP5-B_211004B : 15 | 159988 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.032 | | SW8015C | 10/8/2021 13:02/amn | GCFID-HP5-B_211007B : 14 | 159988 |
| Surr: o-Terphenyl | 108.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/6/2021 15:57/amn | GCFID-HP5-B_211004B : 15 | 159988 |
| Surr: o-Terphenyl (SGT) | 98.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/8/2021 13:02/amn | GCFID-HP5-B_211007B : 14 | 159988 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1768 (RHMW16)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100166-007
**Collection Date:** 10/01/2021 15:50
**Date Received:** 10/04/2021
**Report Date:** 10/11/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.073 | mg/L | 1 | J | 0.30 | 0.14 | 0.037 | | SW8015C | 10/6/2021 16:45/amn | GCFID-HP5-B_211004B : 16 | 159988 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.037 | | SW8015C | 10/8/2021 13:49/amn | GCFID-HP5-B_211007B : 15 | 159988 |
| Oil Range Hydrocarbons (C24 to C40) | 0.32 | mg/L | 1 | | 0.30 | 0.14 | 0.085 | | SW8015C | 10/6/2021 16:45/amn | GCFID-HP5-B_211004B : 16 | 159988 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.085 | | SW8015C | 10/8/2021 13:49/amn | GCFID-HP5-B_211007B : 15 | 159988 |
| Total Extractable Hydrocarbons | 0.50 | mg/L | 1 | | 0.30 | 0.14 | 0.072 | | SW8015C | 10/6/2021 16:45/amn | GCFID-HP5-B_211004B : 16 | 159988 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.032 | | SW8015C | 10/8/2021 13:49/amn | GCFID-HP5-B_211007B : 15 | 159988 |
| Surr: o-Terphenyl | 93.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/6/2021 16:45/amn | GCFID-HP5-B_211004B : 16 | 159988 |
| Surr: o-Terphenyl (SGT) | 98.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/8/2021 13:49/amn | GCFID-HP5-B_211007B : 15 | 159988 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1770 (OWDFMW01)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100166-008
**Collection Date:** 10/01/2021 16:55
**Date Received:** 10/04/2021
**Report Date:** 10/11/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.42 | mg/L | 1 | | 0.30 | 0.14 | 0.037 | | SW8015C | 10/6/2021 22:30/amn | GCFID-HP5-B_211004B : 20 | 159988 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.11 | 0.037 | | SW8015C | 10/8/2021 14:37/amn | GCFID-HP5-B_211007B : 16 | 159988 |
| Oil Range Hydrocarbons (C24 to C40) | 0.24 | mg/L | 1 | J | 0.30 | 0.14 | 0.083 | | SW8015C | 10/6/2021 22:30/amn | GCFID-HP5-B_211004B : 20 | 159988 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.083 | | SW8015C | 10/8/2021 14:37/amn | GCFID-HP5-B_211007B : 16 | 159988 |
| Total Extractable Hydrocarbons | 0.73 | mg/L | 1 | | 0.30 | 0.14 | 0.071 | | SW8015C | 10/6/2021 22:30/amn | GCFID-HP5-B_211004B : 20 | 159988 |
| Total Extractable Hydrocarbons (SGT) | 0.038 | mg/L | 1 | J | 0.30 | 0.11 | 0.031 | | SW8015C | 10/8/2021 14:37/amn | GCFID-HP5-B_211007B : 16 | 159988 |
| Surr: o-Terphenyl | 104.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/6/2021 22:30/amn | GCFID-HP5-B_211004B : 20 | 159988 |
| Surr: o-Terphenyl (SGT) | 97.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/8/2021 14:37/amn | GCFID-HP5-B_211007B : 16 | 159988 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100166 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/11/2021

**Run ID: Run Order:** GCFID-HP5-B_211004B: 5 **SampType:** Method Blank **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/06/2021 04:52 **Prep Date:** 10/04/2021 14:22
**Lab ID:** MB-159988 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 106.0 | 56 | 125 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211007B: 5 **SampType:** Method Blank **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/08/2021 04:10 **Prep Date:** 10/04/2021 14:22
**Lab ID:** MB-159988 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons (SGT) | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl (SGT) | 0.20 | 0.0020 | 0.20 | | 100.0 | 56 | 125 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100166 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/11/2021

**Run ID: Run Order:** GCFID-HP5-B_211004B: 4 **SampType:** Laboratory Control Sample **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/06/2021 04:00 **Prep Date:** 10/04/2021 14:22
**Lab ID:** LCS-159988 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 103.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 17 | 0.30 | 15 | | 111.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 109.0 | 56 | 125 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 25 **SampType:** Laboratory Control Sample **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/07/2021 03:38 **Prep Date:** 10/04/2021 14:24
**Lab ID:** LCS-159988-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 94.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 98.0 | 56 | 125 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211007B: 4 **SampType:** Laboratory Control Sample **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/08/2021 03:17 **Prep Date:** 10/04/2021 14:22
**Lab ID:** LCS-159988 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 15 | 0.30 | 15 | | 97.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons (SGT) | 16 | 0.30 | 15 | | 104.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl (SGT) | 0.21 | 0.0020 | 0.20 | | 104.0 | 56 | 125 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100166 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/11/2021

**Run ID: Run Order:** GCFID-HP5-B_211007B: 19 **SampType:** Laboratory Control Sample **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/08/2021 17:03 **Prep Date:** 10/04/2021 14:24
**Lab ID:** LCS-159988-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 4.7 | 0.30 | 5.0 | | 93.0 | 60 | 140 | | | | |
| Surr: o-Terphenyl (SGT) | 0.20 | 0.0020 | 0.20 | | 101.0 | 50 | 150 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 21 **SampType:** Sample Matrix Spike **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/06/2021 23:22 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 27 | 0.59 | 29 | 0.0 | 90.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 28 | 0.59 | 29 | 0.0 | 96.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.38 | 0.0039 | 0.39 | 0.0 | 98.0 | 56 | 125 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 22 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/07/2021 00:12 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 26 | 0.59 | 29 | 0.0 | 89.0 | 36 | 132 | 27 | 1.4 | 20.0 | |
| Total Extractable Hydrocarbons | 28 | 0.59 | 29 | 0.0 | 97.0 | 60 | 132 | 28 | 0.6 | 20.0 | |
| Surr: o-Terphenyl | 0.38 | 0.0039 | 0.39 | 0.0 | 96.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100166 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/11/2021

**Run ID: Run Order:** GCFID-HP5-B_211004B: 23 **SampType:** Sample Matrix Spike **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/07/2021 01:04 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.4 | 0.57 | 9.5 | 0.0 | 99.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.40 | 0.0038 | 0.38 | 0.0 | 106.0 | 56 | 125 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 24 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/07/2021 01:56 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.2 | 0.57 | 9.5 | 0.0 | 97.0 | 41 | 113 | 9.4 | 2.4 | 20.0 | |
| Surr: o-Terphenyl | 0.36 | 0.0038 | 0.38 | 0.0 | 95.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211007B: 17 **SampType:** Sample Matrix Spike **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/08/2021 15:23 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 28 | 0.59 | 29 | 0.0 | 95.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons (SGT) | 30 | 0.59 | 29 | 0.0 | 101.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl (SGT) | 0.41 | 0.0039 | 0.39 | 0.0 | 105.0 | 56 | 125 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100166 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/11/2021

**Run ID: Run Order:** GCFID-HP5-B_211007B: 18 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/08/2021 16:11 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 26 | 0.59 | 29 | 0.0 | 87.0 | 36 | 132 | 28 | 8.9 | 20.0 | |
| Total Extractable Hydrocarbons (SGT) | 27 | 0.59 | 29 | 0.0 | 92.0 | 60 | 132 | 30 | 8.7 | 20.0 | |
| Surr: o-Terphenyl (SGT) | 0.38 | 0.0039 | 0.39 | 0.0 | 97.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211007B: 23 **SampType:** Sample Matrix Spike **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/08/2021 22:22 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 7.7 | 0.57 | 9.5 | 0.0 | 81.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl (SGT) | 0.33 | 0.0038 | 0.38 | 0.0 | 87.0 | 56 | 125 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211007B: 24 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/08/2021 23:15 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 9.4 | 0.57 | 9.5 | 0.0 | 99.0 | 41 | 113 | 7.7 | 20.0 | 20.0 | |
| Surr: o-Terphenyl (SGT) | 0.38 | 0.0038 | 0.38 | 0.0 | 100.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100166 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/11/2021

**Run ID: Run Order:** GCFID-HP5-B_211004B: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368259
**Method:** SW8015C **Analysis Date:** 10/05/2021 21:07 **Prep Date:**
**Lab ID:** CCV_1004HP547r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.8 | 0.30 | 5.0 | | 96.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 115.0 | 80 | 120 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368259
**Method:** SW8015C **Analysis Date:** 10/05/2021 21:58 **Prep Date:**
**Lab ID:** CCV_1004HP548r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 106.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 110.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 98.0 | 80 | 120 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 9 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368259
**Method:** SW8015C **Analysis Date:** 10/06/2021 08:49 **Prep Date:**
**Lab ID:** CCV_1004HP561r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.5 | 0.30 | 5.0 | | 91.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 109.0 | 80 | 120 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100166 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/11/2021

**Run ID: Run Order:** GCFID-HP5-B_211004B: 10 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368259
**Method:** SW8015C **Analysis Date:** 10/06/2021 09:34 **Prep Date:**
**Lab ID:** CCV_1004HP562r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 17 | 0.30 | 15 | | 111.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 18 | 0.30 | 15 | | 117.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 105.0 | 80 | 120 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 18 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368259
**Method:** SW8015C **Analysis Date:** 10/06/2021 19:10 **Prep Date:**
**Lab ID:** CCV_1004HP574r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.6 | 0.30 | 5.0 | | 91.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 107.0 | 80 | 120 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 19 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368259
**Method:** SW8015C **Analysis Date:** 10/06/2021 19:58 **Prep Date:**
**Lab ID:** CCV_1004HP575r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 102.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 105.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.19 | 0.0020 | 0.20 | | 95.0 | 80 | 120 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100166 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/11/2021

**Run ID: Run Order:** GCFID-HP5-B_211004B: 27 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368259
**Method:** SW8015C **Analysis Date:** 10/07/2021 06:15 **Prep Date:**
**Lab ID:** CCV_1004HP587r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.6 | 0.30 | 5.0 | | 93.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 109.0 | 80 | 120 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 28 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368259
**Method:** SW8015C **Analysis Date:** 10/07/2021 07:02 **Prep Date:**
**Lab ID:** CCV_1004HP588r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 105.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 109.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.19 | 0.0020 | 0.20 | | 97.0 | 80 | 120 | | | | |

Associated Samples: **B21100166-001A, B21100166-002A, B21100166-003A, B21100166-004A, B21100166-005A, B21100166-006A, B21100166-007A, B21100166-008A**

# Analytical QC Exceptions Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100166
**Project:** CV_18F0126/60571032.02.20.01

**Revised Date:** 11/09/2021
**Report Date:** 10/11/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.

# Preparation and Analysis Dates Report

**Work Order:** B21100166
**Client:** AECOM - Honolulu
**Project Name:** CV_18F0126/60571032.02.20.01

**Date Revised:** 11/09/2021
**Report Date:** 10/11/2021

| Lab ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Method | Prep Date | Prep Batch | Analysis Method | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | ERH1764 (RHMW08) | 09/30/2021 18:55 | Ground Water | Diesel Range Organics | | SW3520C | 10/04/2021 14:24 | 159988 | SW8015C | 10/06/2021 06:32 |
| | | | | | | SW3520C | 10/04/2021 14:24 | 159988 | SW8015C | 10/08/2021 05:03 |
| 002A | ERH1765 (RHMW09) | 09/30/2021 17:15 | Ground Water | Diesel Range Organics | | SW3520C | 10/04/2021 14:24 | 159988 | SW8015C | 10/06/2021 11:54 |
| | | | | | | SW3520C | 10/04/2021 14:24 | 159988 | SW8015C | 10/08/2021 05:55 |
| 003A | ERH1766 (RHMW10) | 09/30/2021 16:00 | Ground Water | Diesel Range Organics | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/06/2021 12:42 |
| | | | | | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/08/2021 11:27 |
| 004A | ERH1769 (RHMW19) | 09/30/2021 13:55 | Ground Water | Diesel Range Organics | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/06/2021 13:29 |
| | | | | | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/08/2021 12:16 |
| 005A | ERH1762 (RHMW04) | 10/01/2021 13:10 | Ground Water | Diesel Range Organics | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/06/2021 11:07 |
| | | | | | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/08/2021 06:43 |
| 006A | ERH1763 (RHMW06) | 10/01/2021 14:35 | Ground Water | Diesel Range Organics | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/06/2021 15:57 |
| | | | | | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/08/2021 13:02 |
| 007A | ERH1768 (RHMW16) | 10/01/2021 15:50 | Ground Water | Diesel Range Organics | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/06/2021 16:45 |
| | | | | | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/08/2021 13:49 |
| 008A | ERH1770 (OWDFMW01) | 10/01/2021 16:55 | Ground Water | Diesel Range Organics | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/06/2021 22:30 |
| | | | | | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/08/2021 14:37 |

# Chemical Abstracts Service (CAS) Registry Numbers

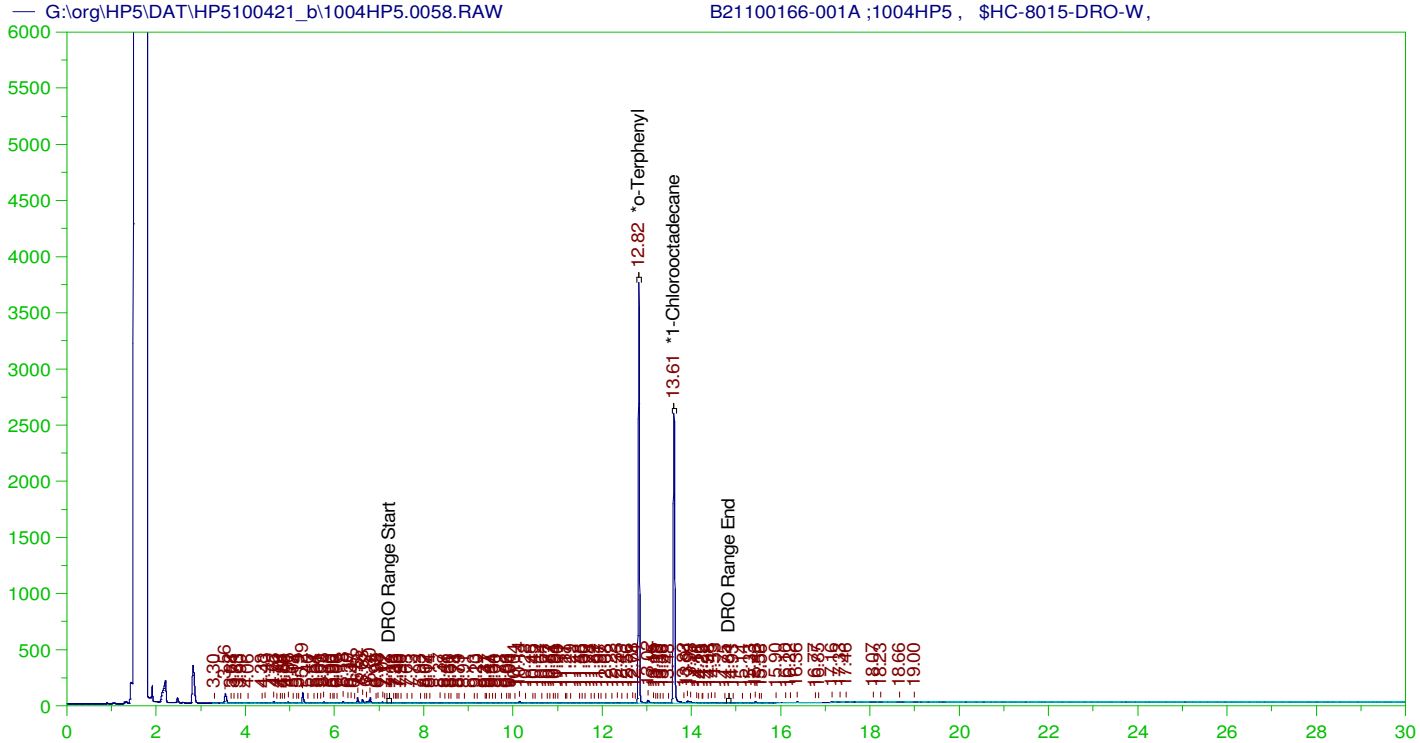
Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100166 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/11/2021

| Analyses | CAS No |
|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | |
| Diesel Range Organics (C10 to C24) | |
| Diesel Range Organics (SGT-C10 to C24) | |
| Oil Range Hydrocarbons (C24 to C40) | |
| Oil Range Hydrocarbons (SGT-C24 to C40) | |
| Total Extractable Hydrocarbons | |
| Total Extractable Hydrocarbons (SGT) | |

**ERH1764 (RHMW08)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0058.RAW B21100166-001A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0058.RAW
Date & Time Acquired: 10/6/2021 6:32:39 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

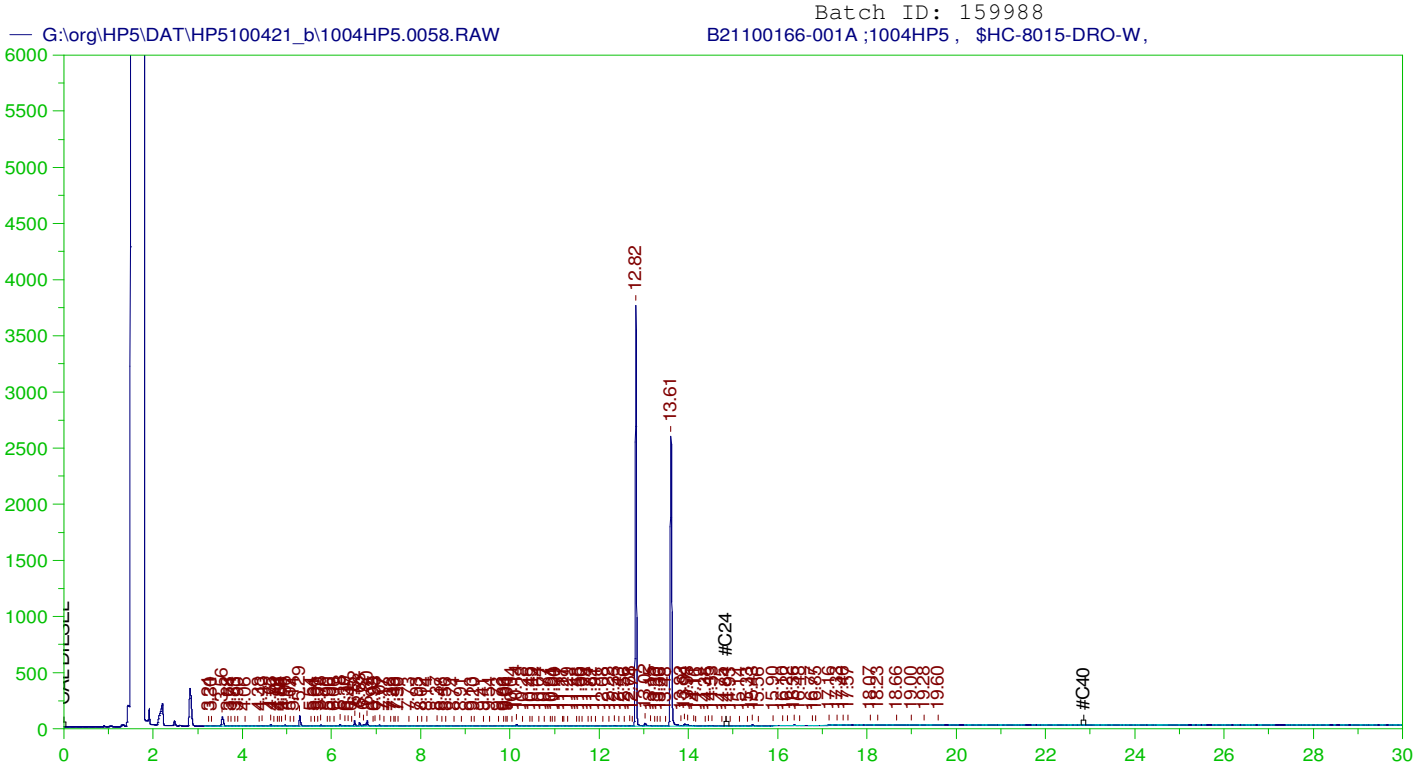
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.82 | .198 | .202 | 102.01 | - |
| *1-Chlorooctadecane | 13.606 | .198 | .16 | 80.56 | - |

DRO (C10-C24)Area:622668.8 DRO (C10-C24)Amount: 0.0209287
TEH Area:1804583 TEH Amount: 6.065436E-02

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0058.RAW
Date & Time Acquired: 10/6/2021 6:32:39 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.795 to 22.905

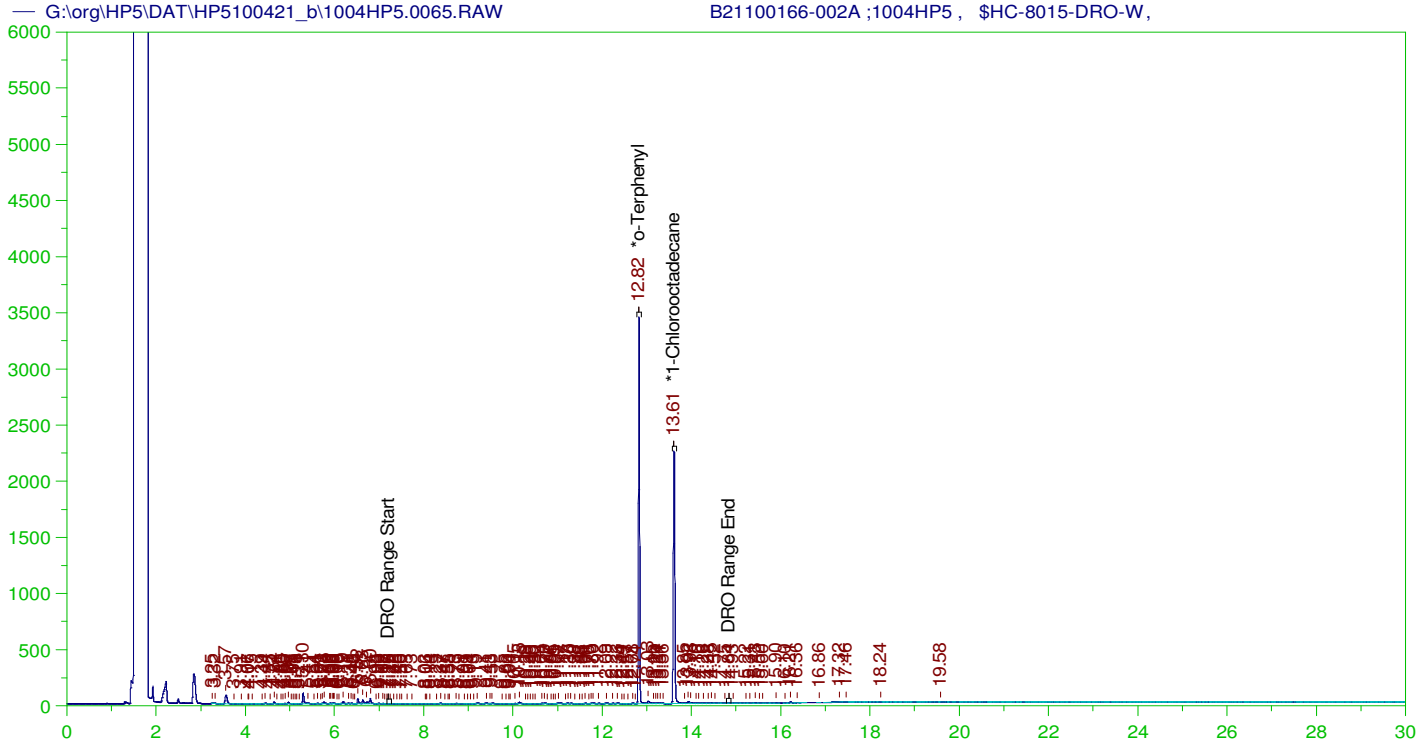
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:95442.28 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 3.310768E-03

AMN 10/13/2021

**ERH1765 (RHMW09)** Batch ID: 159988

G:\org\HP5\DAT\HP5100421_b\1004HP5.0065.RAW B21100166-002A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0065.RAW
Date & Time Acquired: 10/6/2021 11:54:38 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

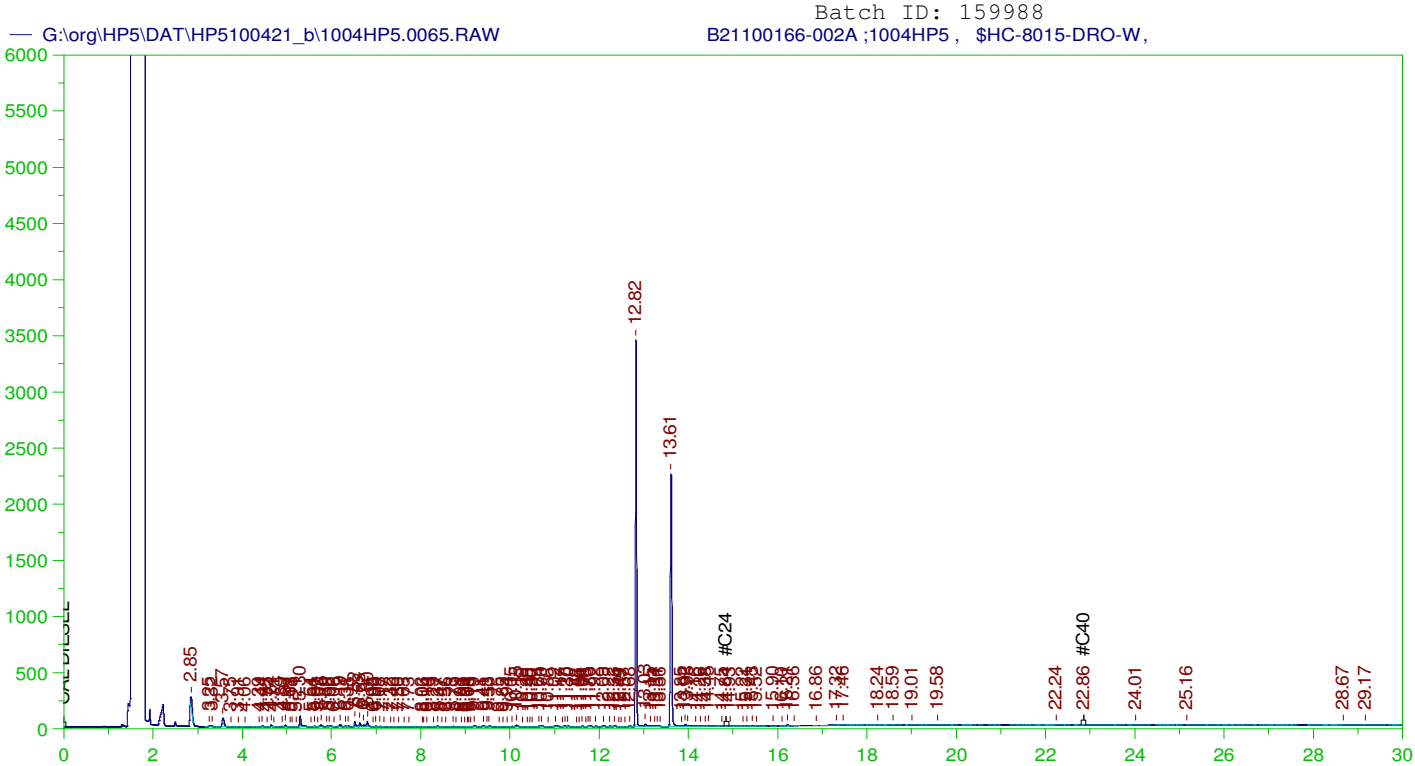
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .192 | .179 | 93.18 | - |
| *1-Chlorooctadecane | 13.608 | .192 | .133 | 69.17 | - |

DRO (C10-C24)Area:603600.1 DRO (C10-C24)Amount: 1.970256E-02
TEH Area:1710598 TEH Amount: 5.583687E-02

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-002A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0065.RAW
Date & Time Acquired: 10/6/2021 11:54:38 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

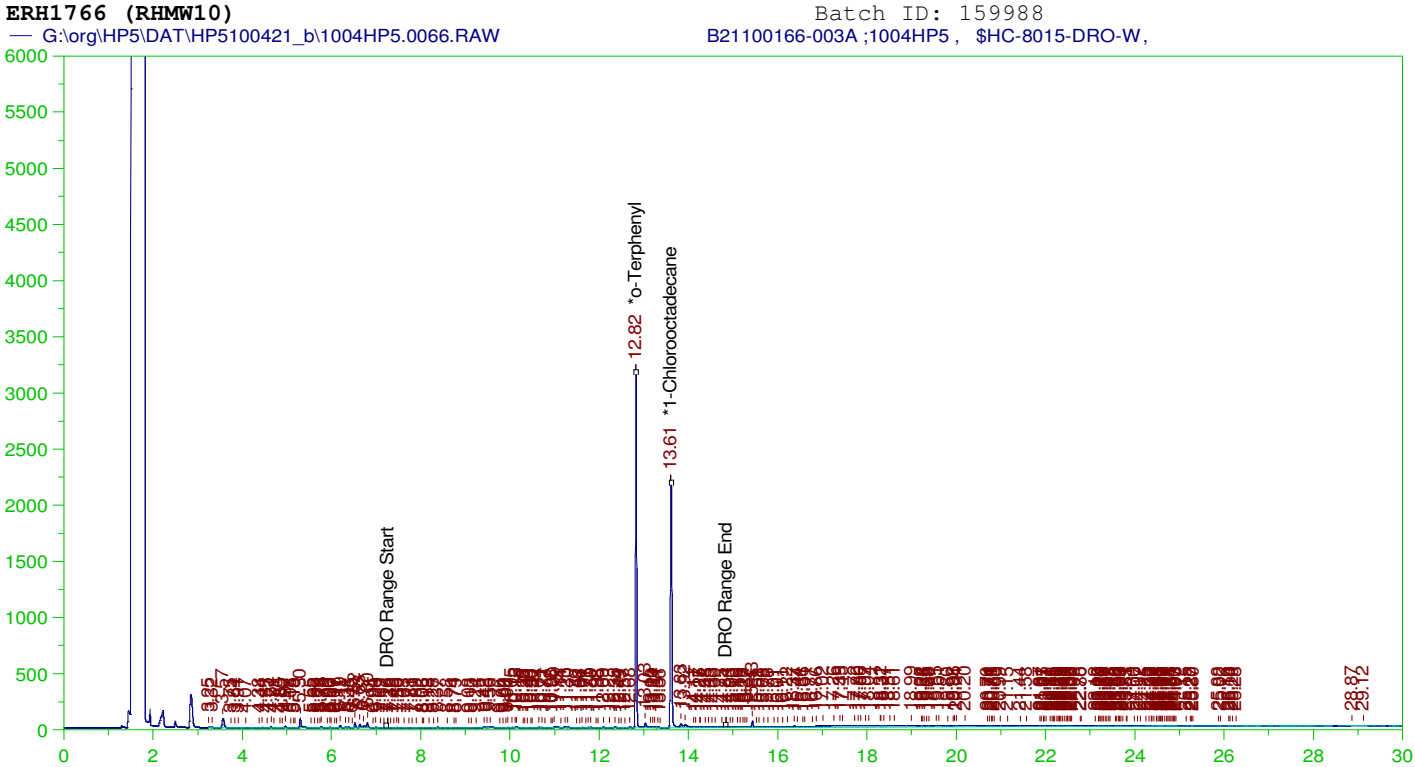
Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:101547.8 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 3.420949E-03

AMN 10/13/2021

**ERH1766 (RHMW10)** Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-003A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0066.RAW
Date & Time Acquired: 10/6/2021 12:42:16 PM
Method File: G:\Org\HP5\Methods\D3_8015-100466-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

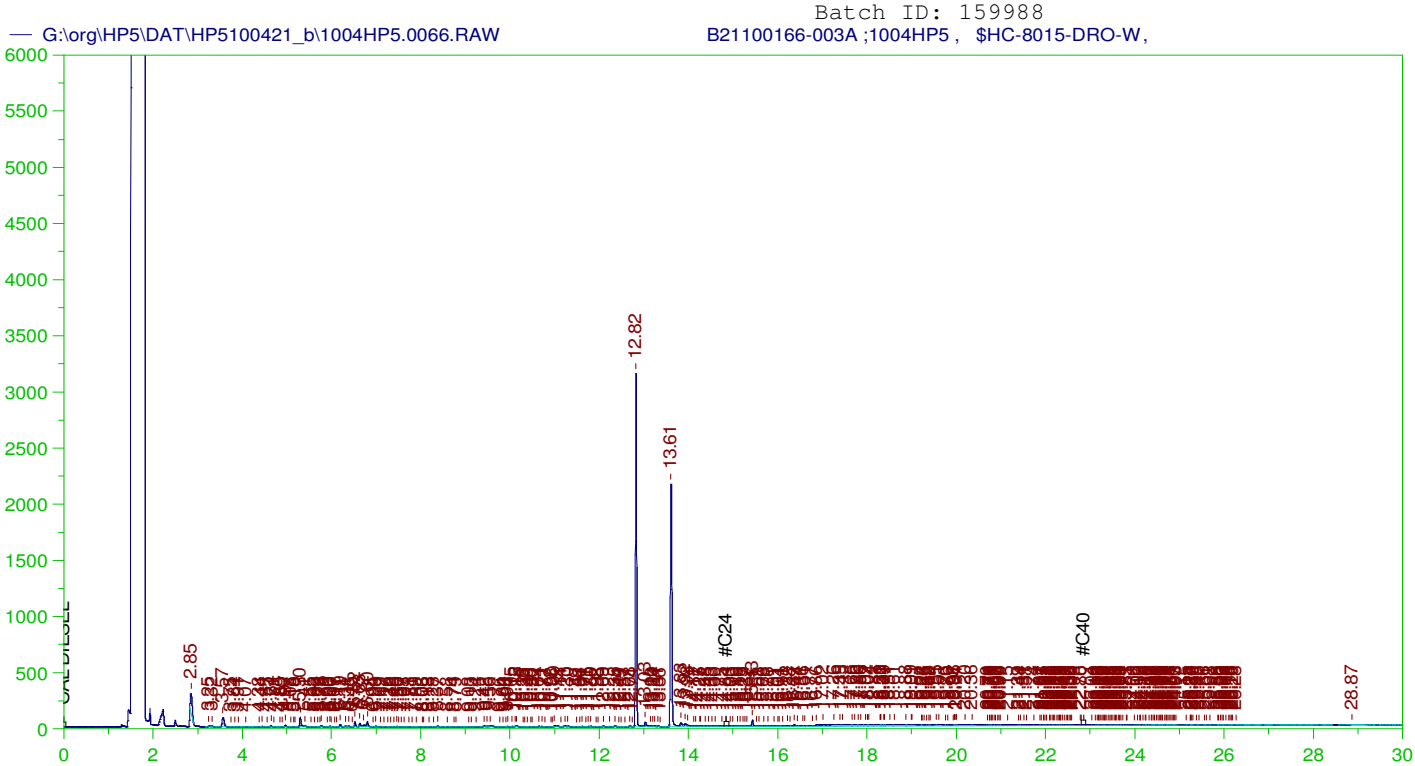
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.824 | .192 | .165 | 85.72 | - |
| *1-Chlorooctadecane | 13.609 | .192 | .128 | 66.52 | - |

DRO (C10-C24)Area:881705.5 DRO (C10-C24)Amount: 0.0287804
TEH Area:6499245 TEH Amount: 0.2121466

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-003A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0066.RAW
Date & Time Acquired: 10/6/2021 12:42:16 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-100466-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.795 to 22.905

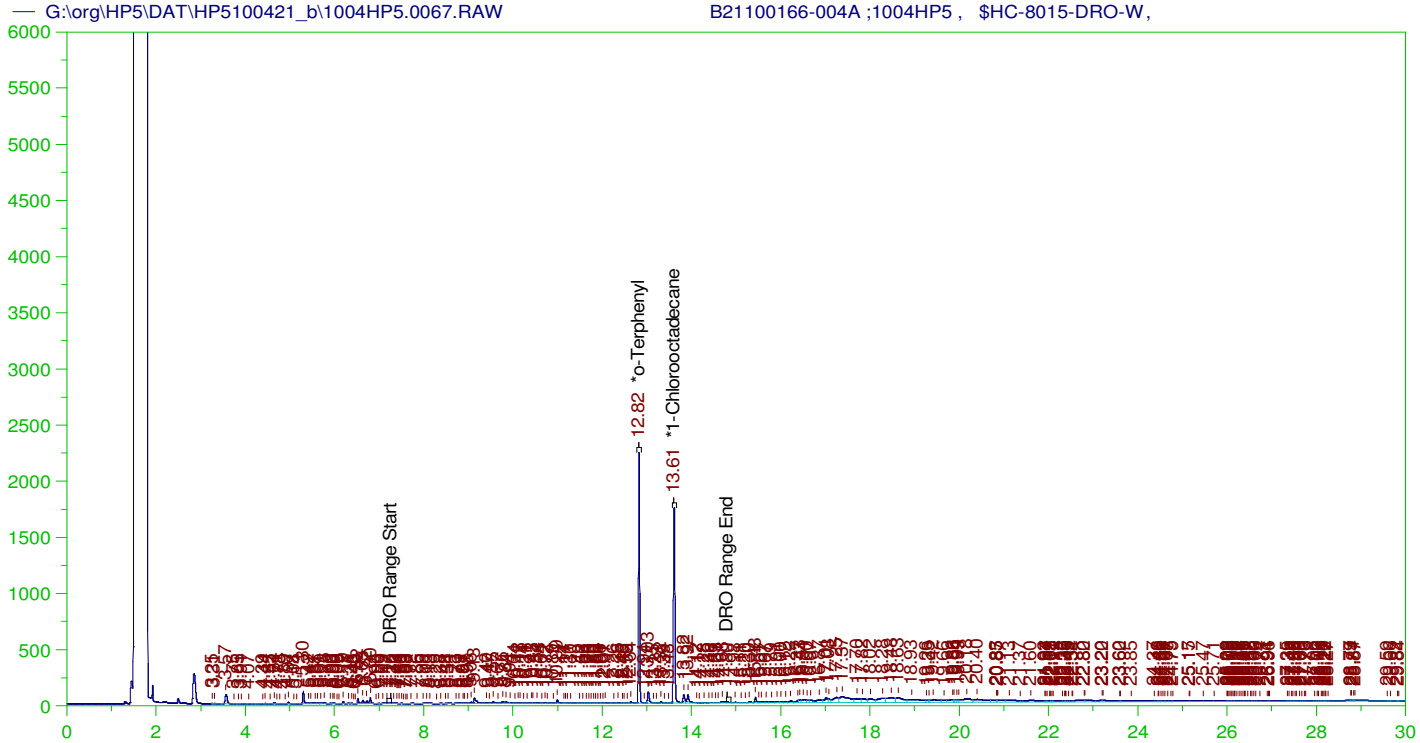
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:4088342 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 0.1377283

AMN 10/13/2021

**ERH1769 (RHMW19)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0067.RAW B21100166-004A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-004A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0067.RAW
Date & Time Acquired: 10/6/2021 1:29:54 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

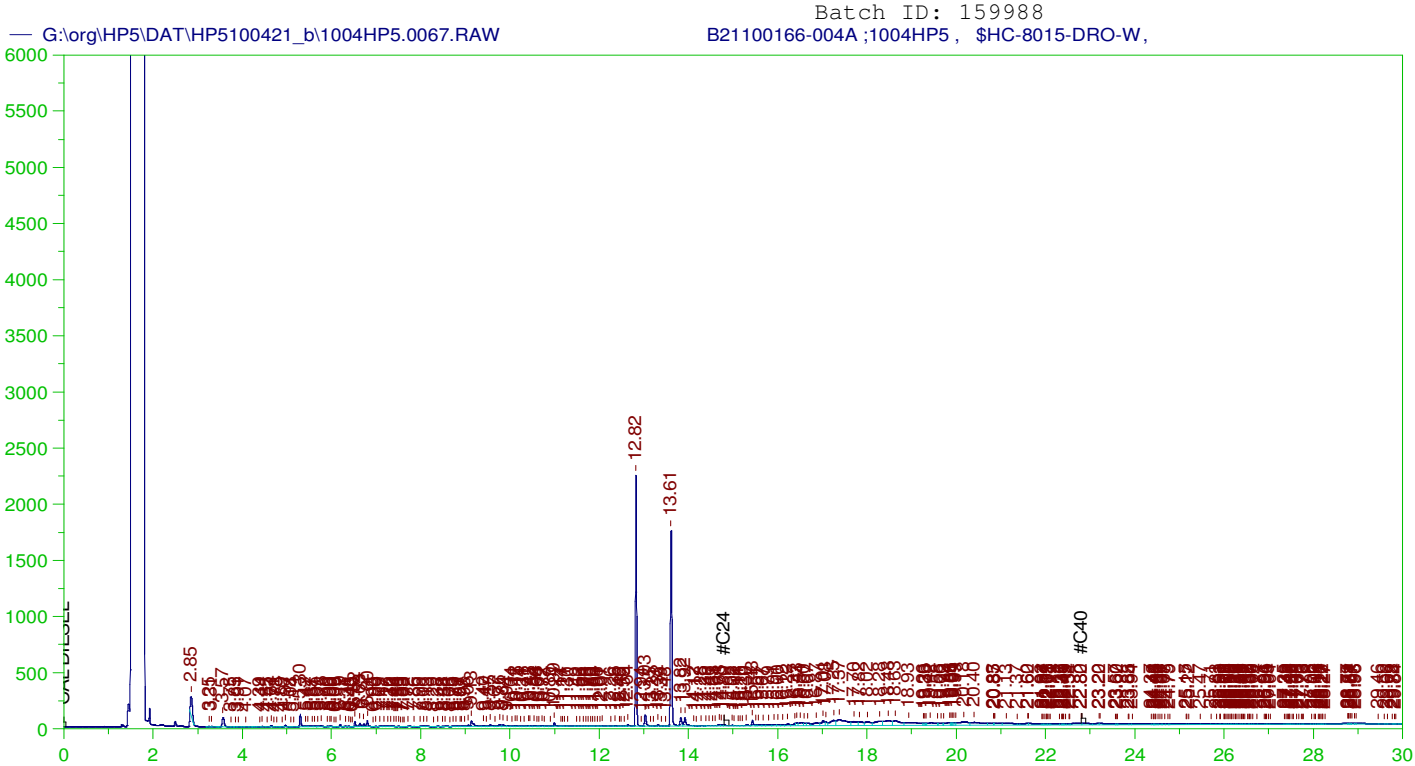
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .196 | .119 | 60.85 | - |
| *1-Chlorooctadecane | 13.609 | .196 | .105 | 53.36 | - |

DRO (C10-C24)Area:2471758 DRO (C10-C24)Amount: 8.226448E-02
TEH Area:1.70335E+07 TEH Amount: 0.566905

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-004A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0067.RAW
Date & Time Acquired: 10/6/2021 1:29:54 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.795 to 22.905

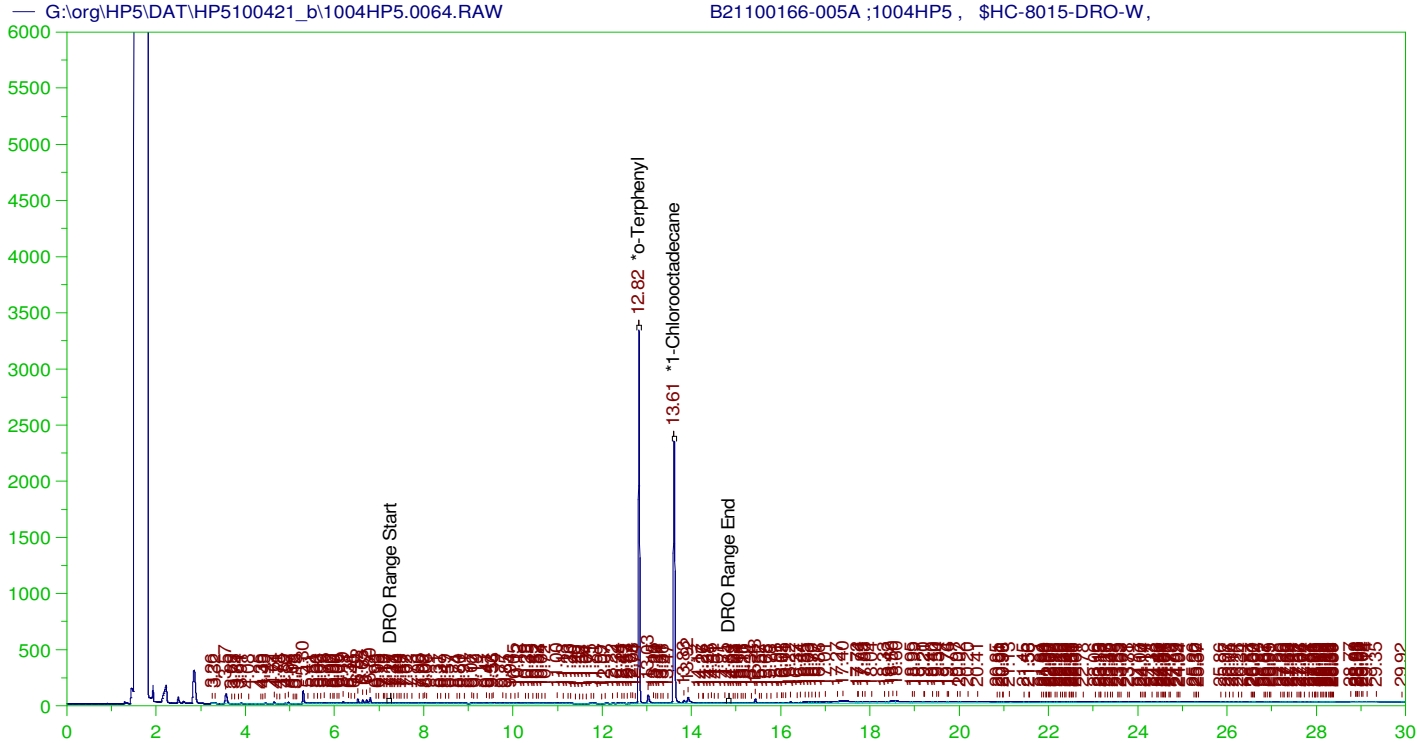
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:1.094225E+07 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 0.375851

AMN 10/13/2021

**ERH1762 (RHMW04)** Batch ID: 159988

G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW B21100166-005A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-005A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW
Date & Time Acquired: 10/6/2021 11:07:08 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

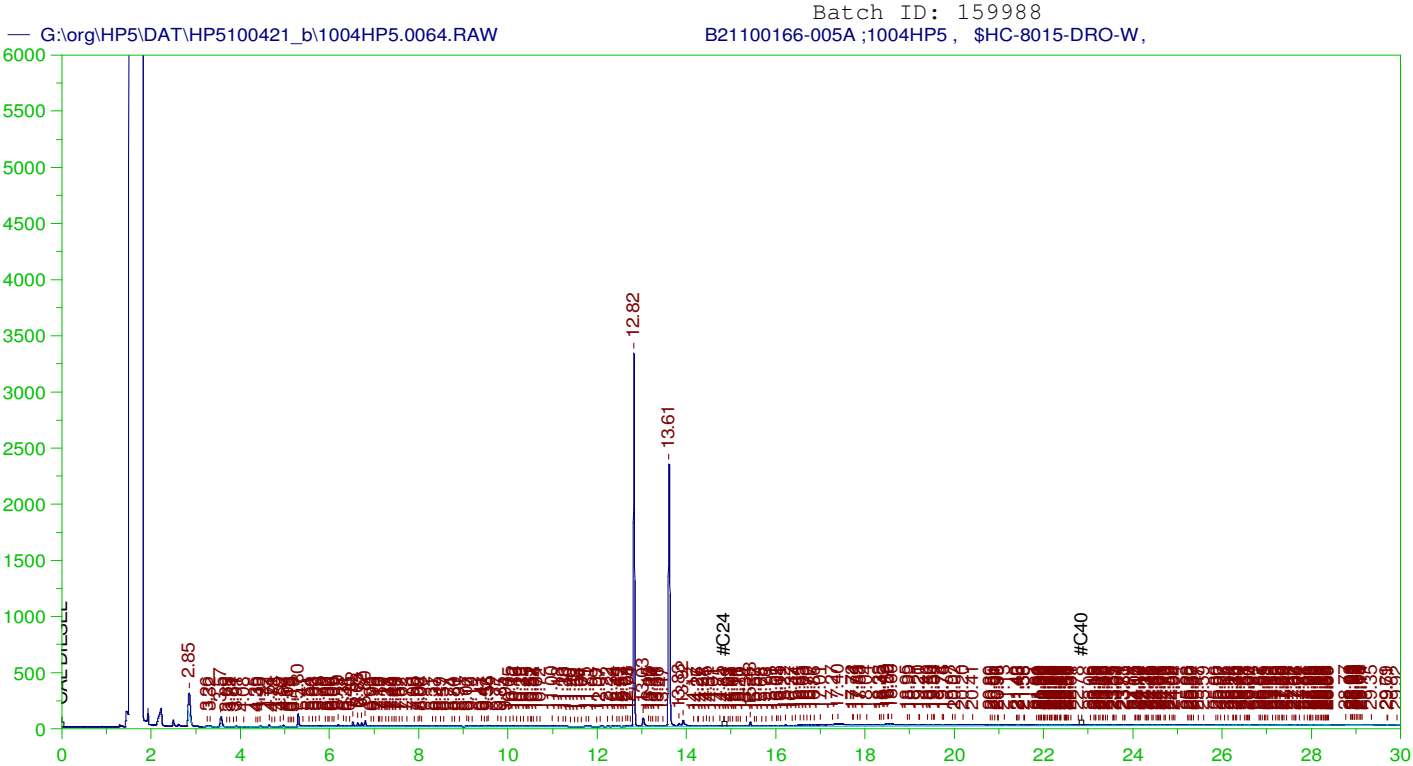
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .194 | .176 | 90.85 | - |
| *1-Chlorooctadecane | 13.608 | .194 | .14 | 71.97 | - |

DRO (C10-C24)Area:1440101 DRO (C10-C24)Amount: 4.746377E-02
TEH Area:8796204 TEH Amount: 0.289911

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-005A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW
Date & Time Acquired: 10/6/2021 11:07:08 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

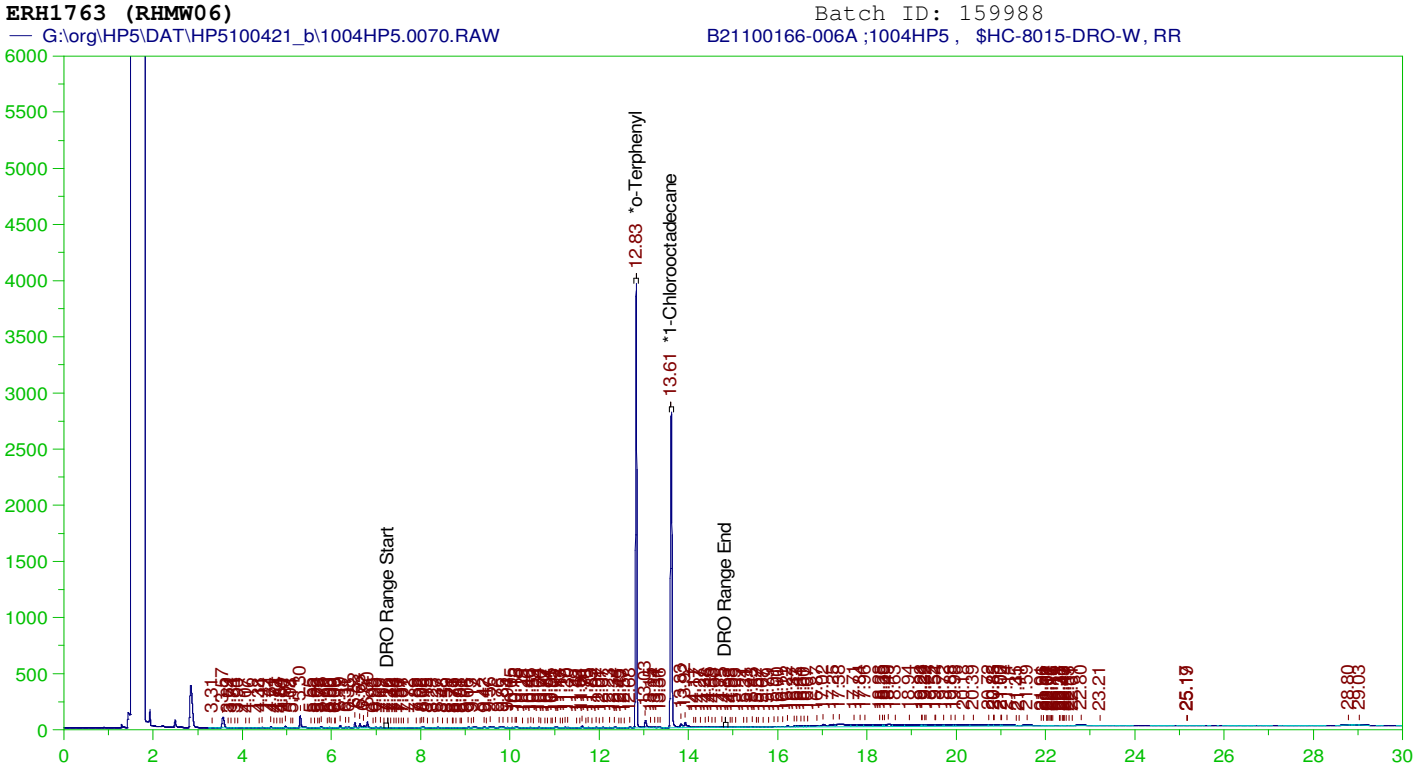
Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:4851521 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 0.1650251

AMN 10/13/2021

**ERH1763 (RHMW06)** Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0070.RAW
Date & Time Acquired: 10/6/2021 3:57:08 PM
Method File: G:\Org\HP5\Methods\D3_8015-100470-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

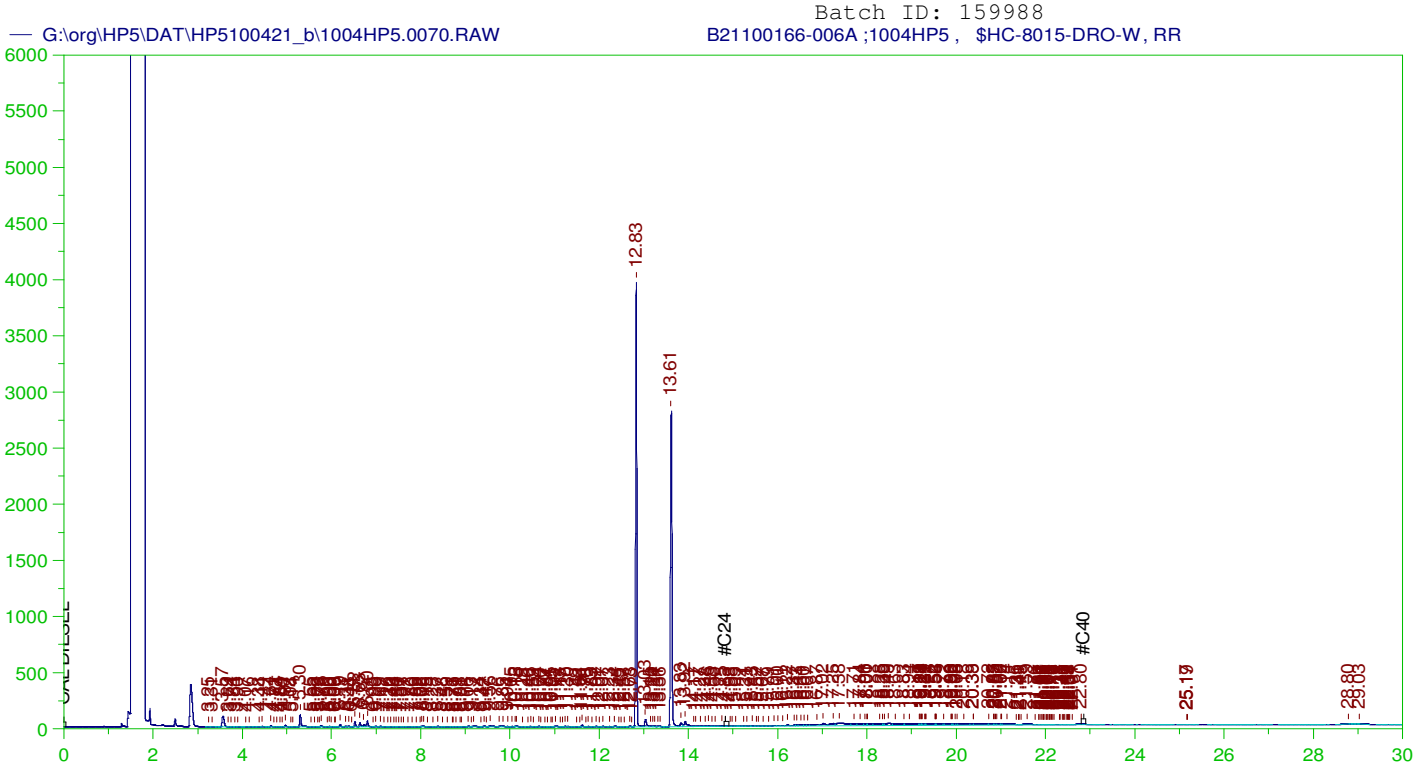
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.827 | .196 | .213 | 108.85 | - |
| *1-Chlorooctadecane | 13.611 | .196 | .168 | 85.86 | - |

DRO (C10-C24)Area:1121723 DRO (C10-C24)Amount: 3.733293E-02
TEH Area:6655515 TEH Amount: 0.2215073

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0070.RAW
Date & Time Acquired: 10/6/2021 3:57:08 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-100470-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.795 to 22.905

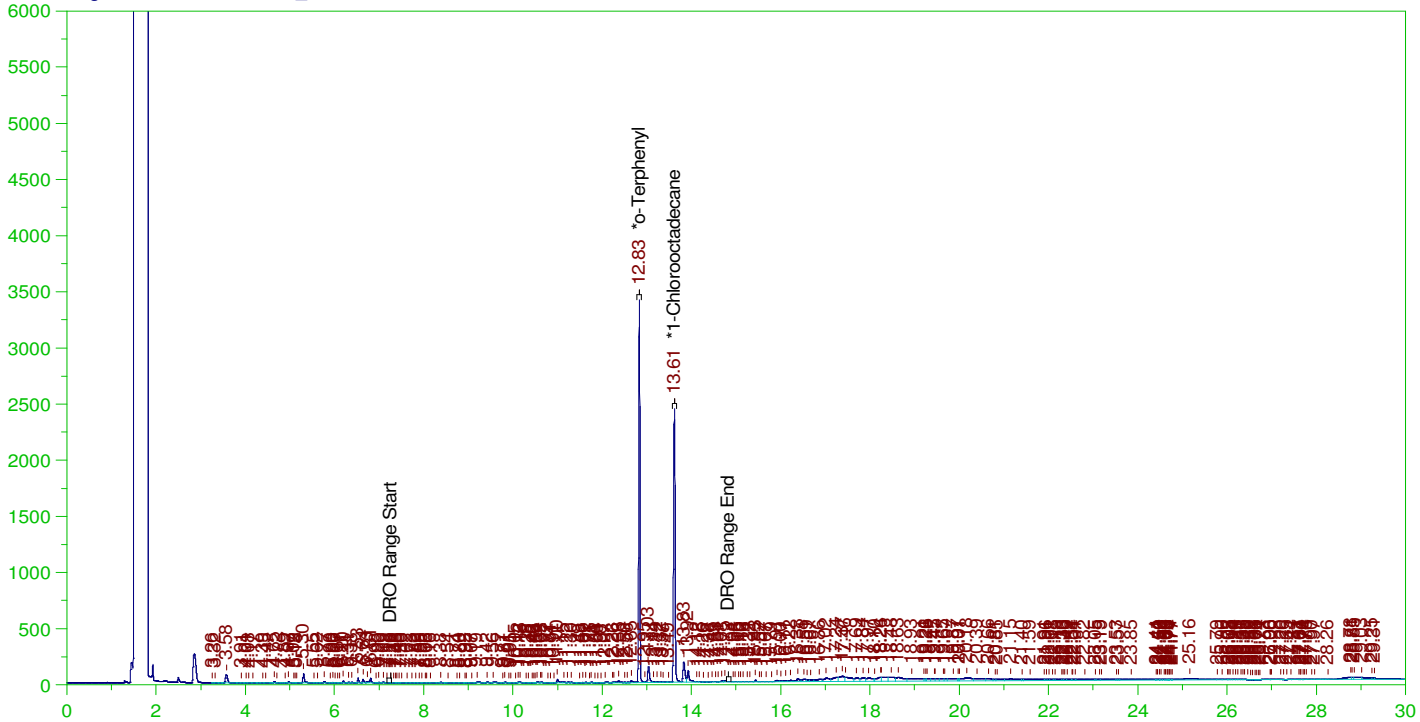
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:4271924 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 0.1467346

AMN 10/13/2021

**ERH1768 (RHMW16)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW B21100166-007A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-007A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW
Date & Time Acquired: 10/6/2021 4:45:57 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

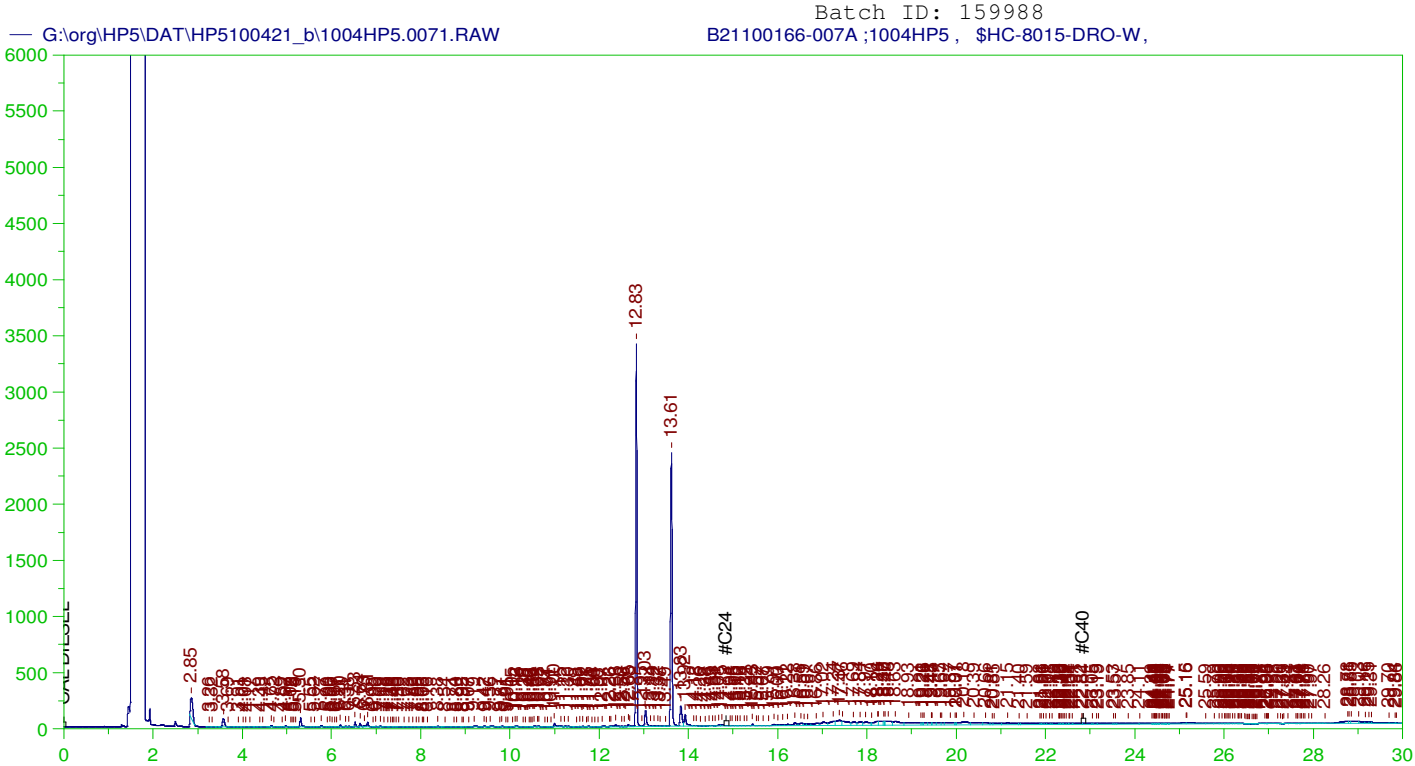
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | .192 | .18 | 93.83 | - |
| *1-Chlorooctadecane | 13.613 | .192 | .144 | 74.73 | - |

DRO (C10-C24)Area:2226198 DRO (C10-C24)Amount: 7.266697E-02
TEH Area:1.524978E+07 TEH Amount: 0.4977794

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-007A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW
Date & Time Acquired: 10/6/2021 4:45:57 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.795 to 22.905

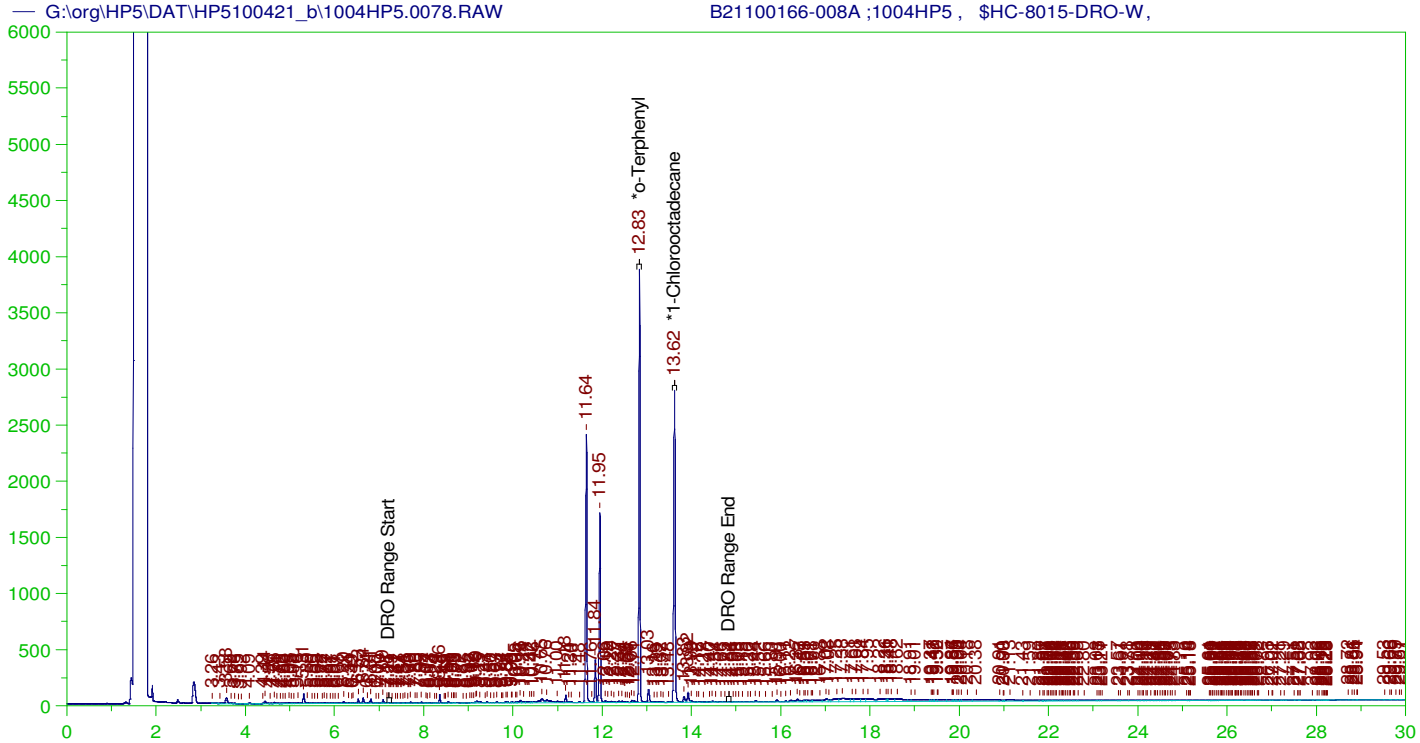
SURROGATE COMPOUND RT ACTUAL MEASURED %REC

~~RRO~~ Oil Range (C24-C40) Area:9542584 ~~RRO~~ Oil Range(C24-C40) AMOUNT: 0.3214712

AMN 10/13/2021

**ERH1770 (OWDFMW01)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW B21100166-008A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-008A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW
Date & Time Acquired: 10/6/2021 10:30:44 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

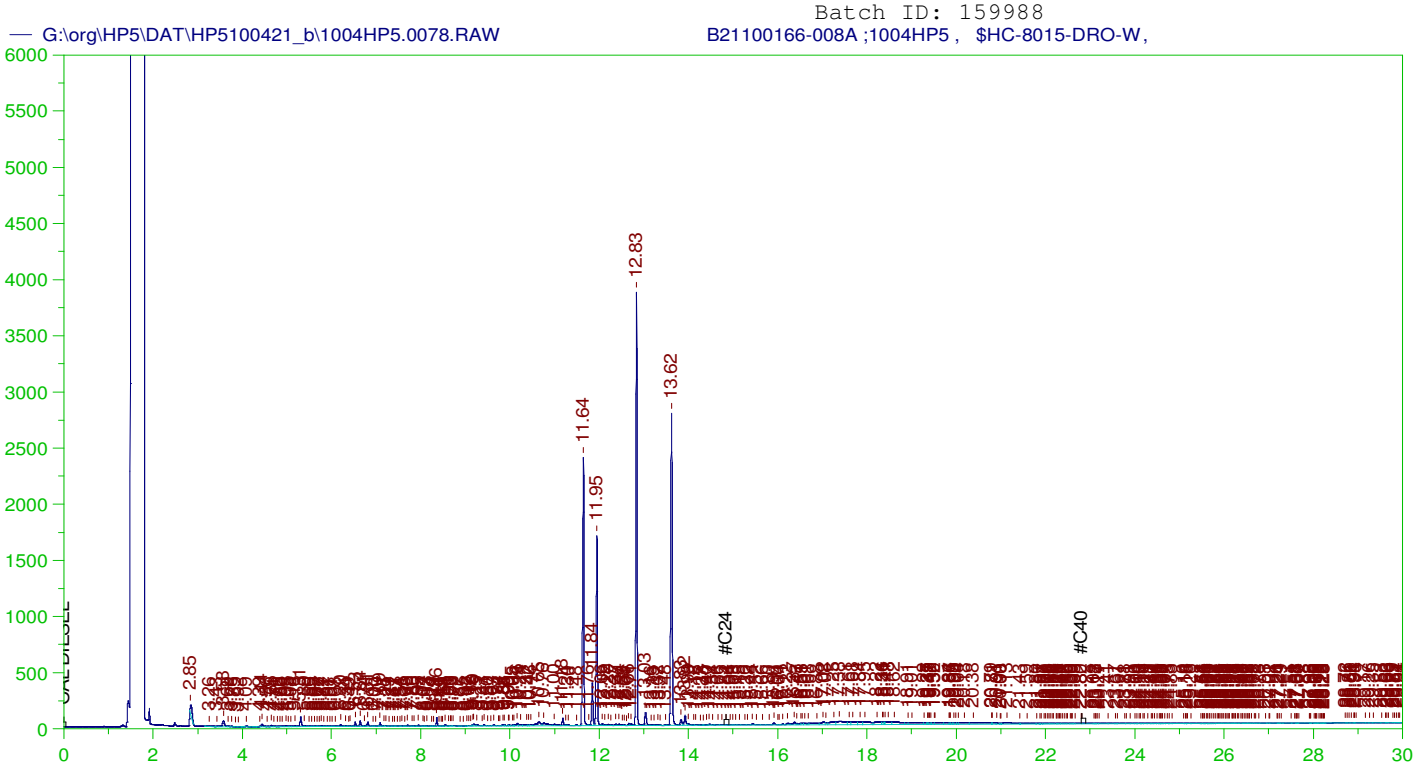
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | .19 | .2 | 105.54 | - |
| *1-Chlorooctadecane | 13.616 | .19 | .161 | 84.87 | - |

DRO (C10-C24)Area:1.295337E+07 DRO (C10-C24)Amount: 0.4168086
TEH Area:2.275698E+07 TEH Amount: 0.7322657

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-008A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW
Date & Time Acquired: 10/6/2021 10:30:44 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.795 to 22.905

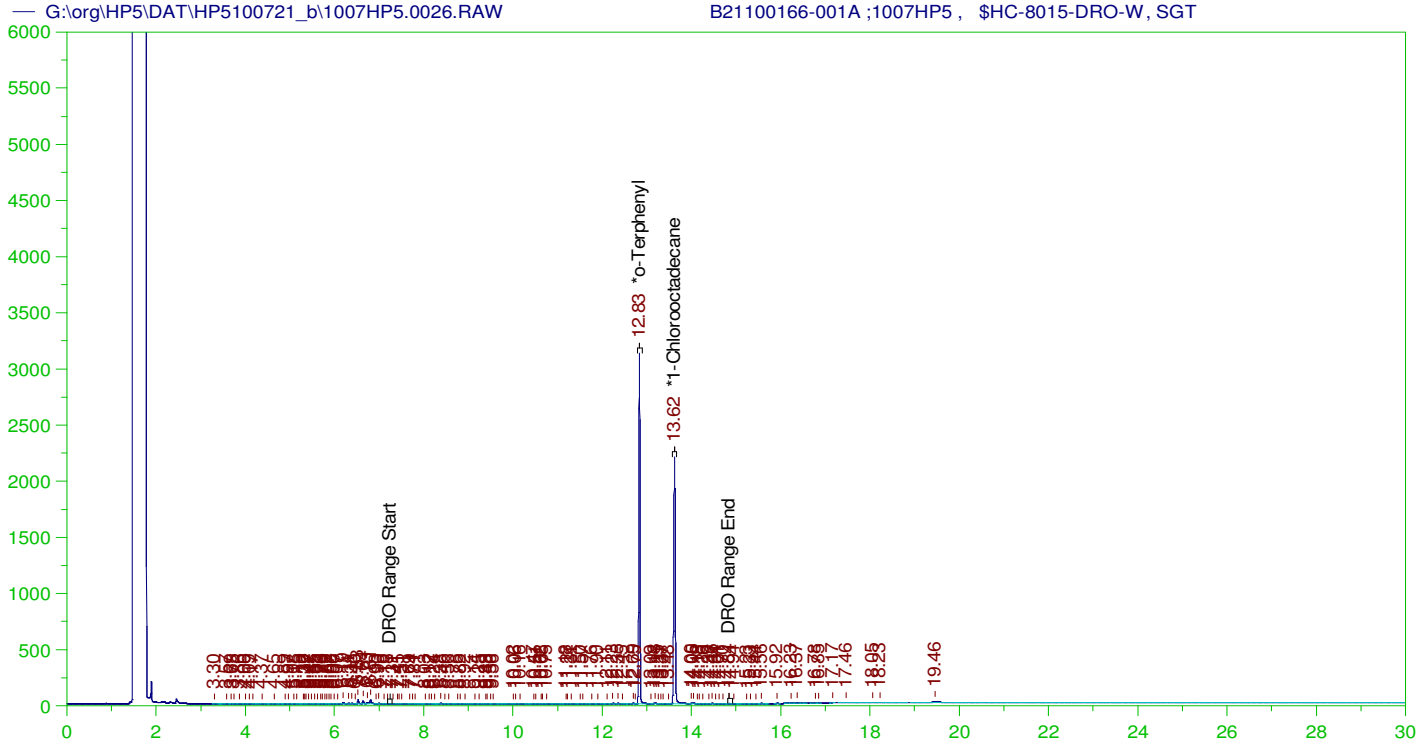
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:7340821 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 0.2437819

AMN 10/13/2021

**ERH1764 (RHMW08)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0026.RAW B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0026.RAW
Date & Time Acquired: 10/8/2021 5:03:00 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

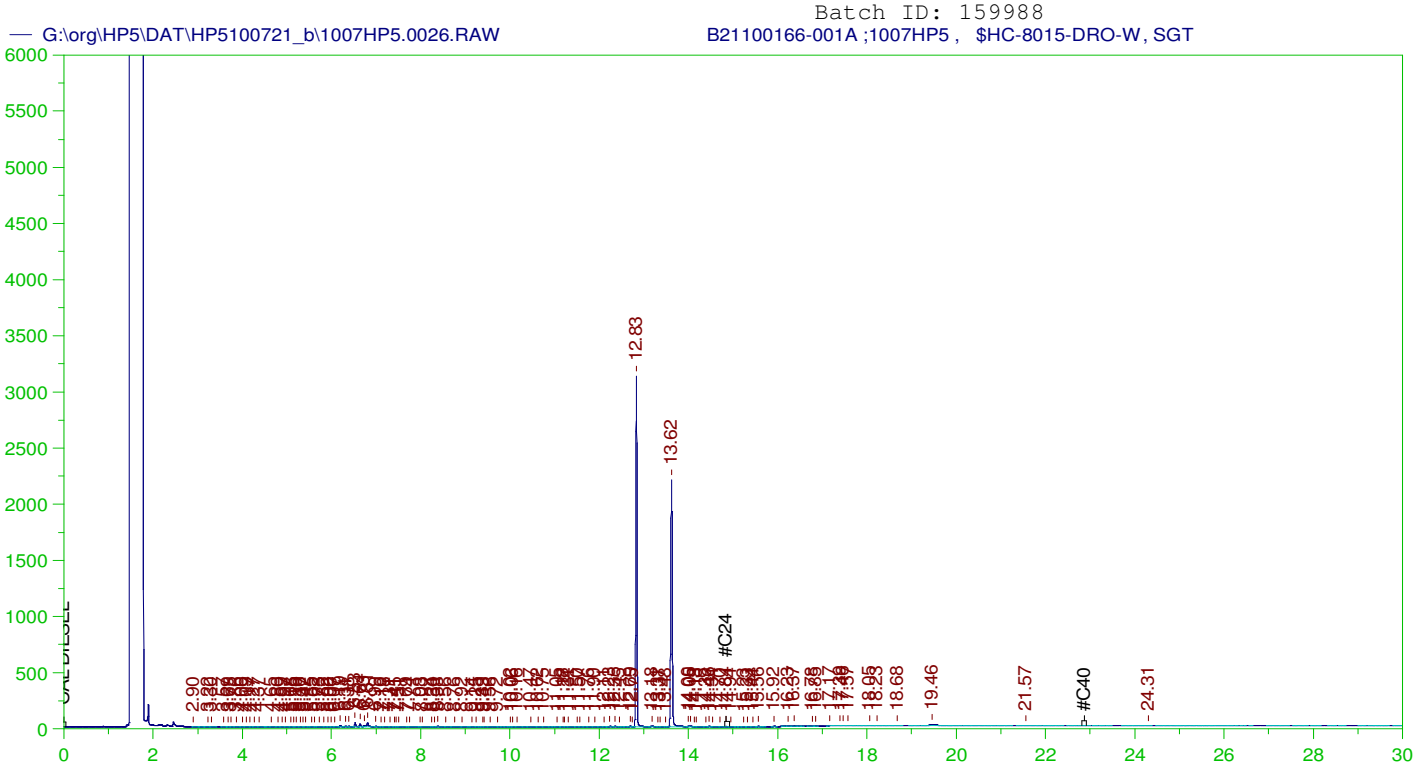
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl(SGT) | 12.831 | .198 | .171 | 86.53 | - |
| *1-Chlorooctadecane | 13.617 | .198 | .137 | 69.25 | - |

DRO (SGT-C10-C24)Area:219404.6 DRO (SGT-C10-C24)Amount: 7.374473E-03
TEH (SGT)Area:745894.3 TEH (SGT)Amount: 2.507047E-02

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0026.RAW
Date & Time Acquired: 10/8/2021 5:03:00 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.817 to 22.92

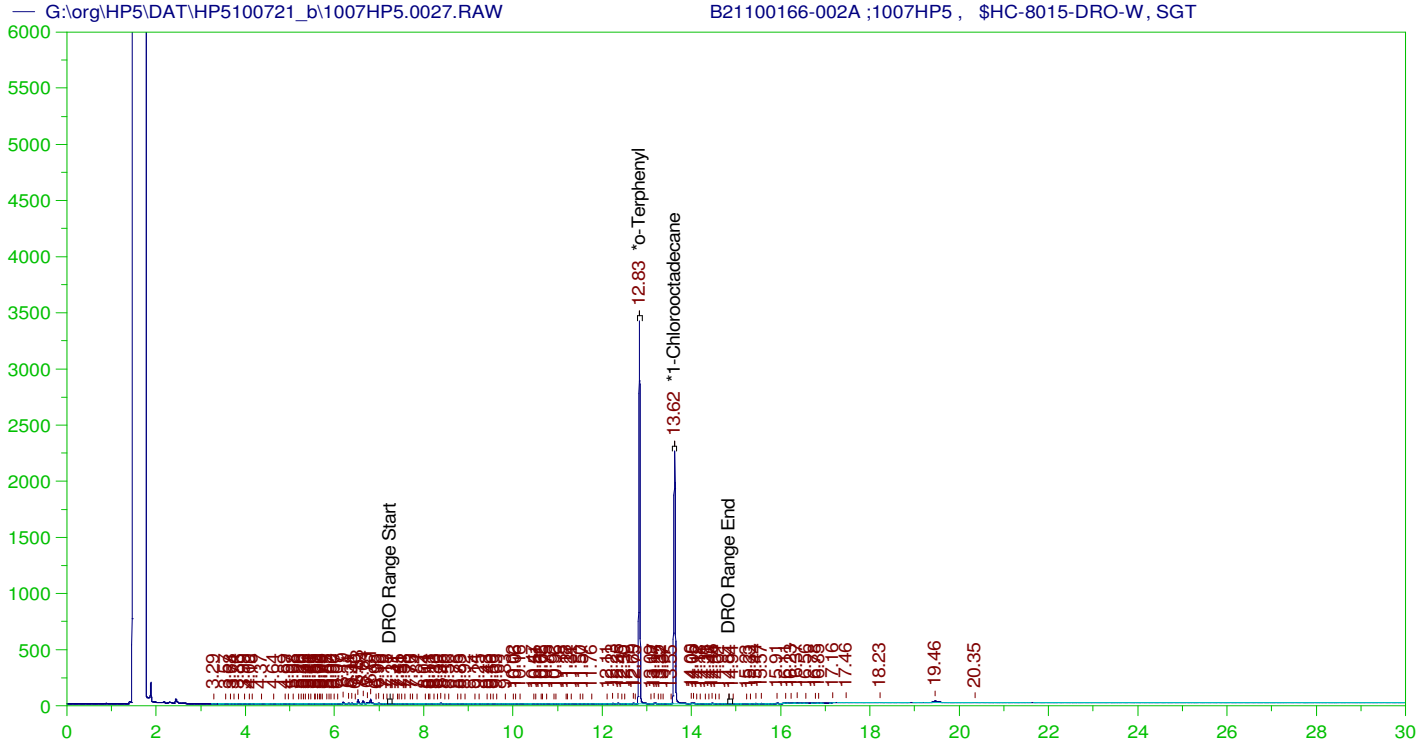
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40)Area:146401.4 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 5.078473E-03

AMN 10/13/2021

**ERH1765 (RHMW09)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0027.RAW B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0027.RAW
Date & Time Acquired: 10/8/2021 5:55:27 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

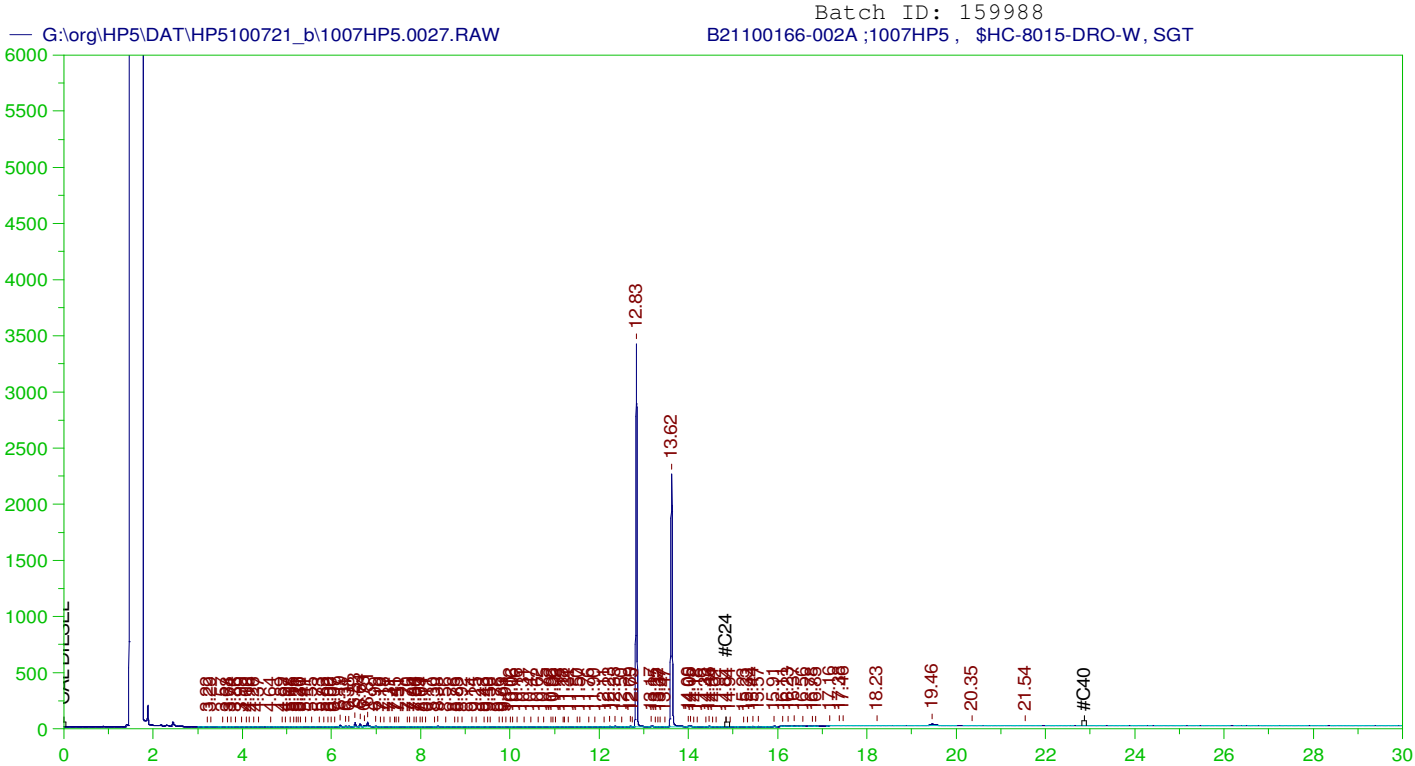
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl(SGT) | 12.832 | .192 | .18 | 93.58 | - |
| *1-Chlorooctadecane | 13.617 | .192 | .134 | 69.87 | - |

DRO (SGT-C10-C24)Area:205282.1 DRO (SGT-C10-C24)Amount: 6.700766E-03
TEH (SGT)Area:768952.3 TEH (SGT)Amount: 2.509994E-02

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0027.RAW
Date & Time Acquired: 10/8/2021 5:55:27 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

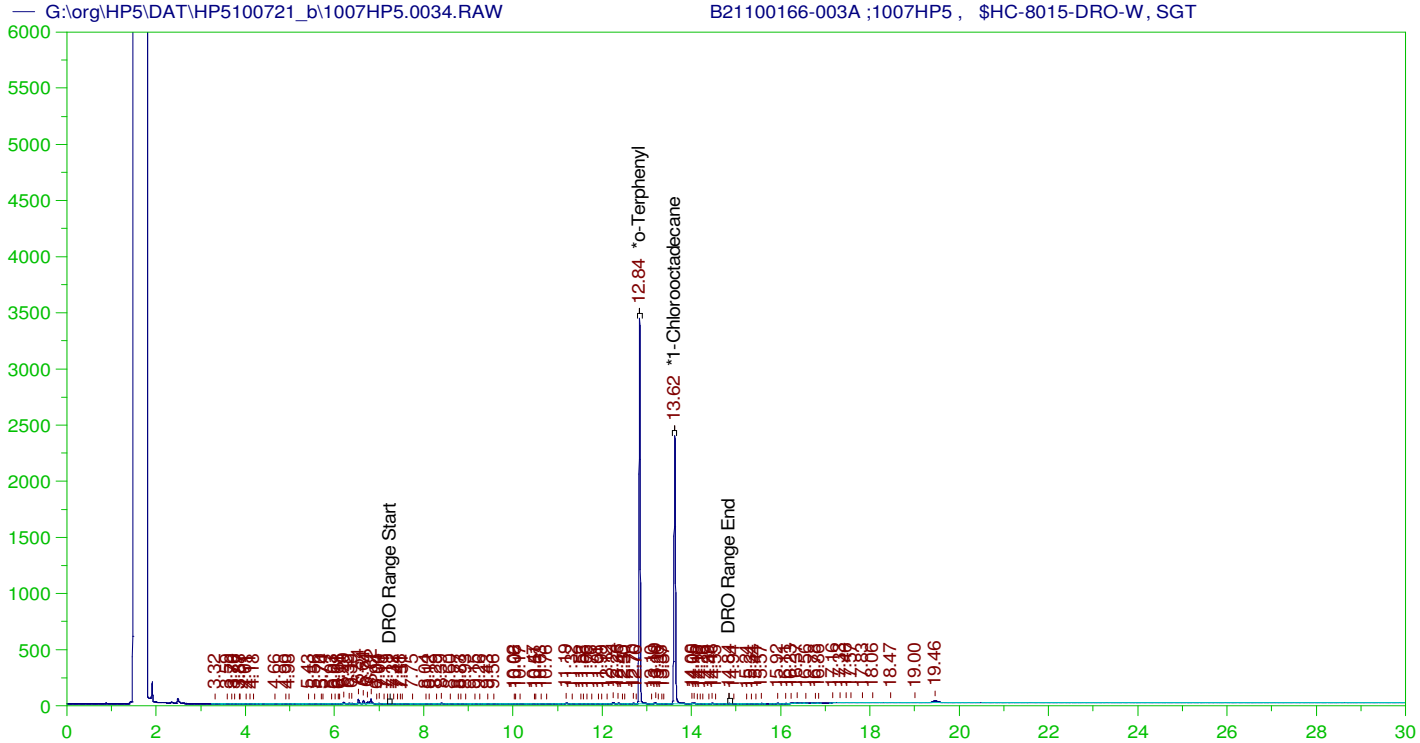
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:170797.3 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 5.753828E-03

AMN 10/13/2021

**ERH1766 (RHMW10)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0034.RAW B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0034.RAW
Date & Time Acquired: 10/8/2021 11:27:35 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

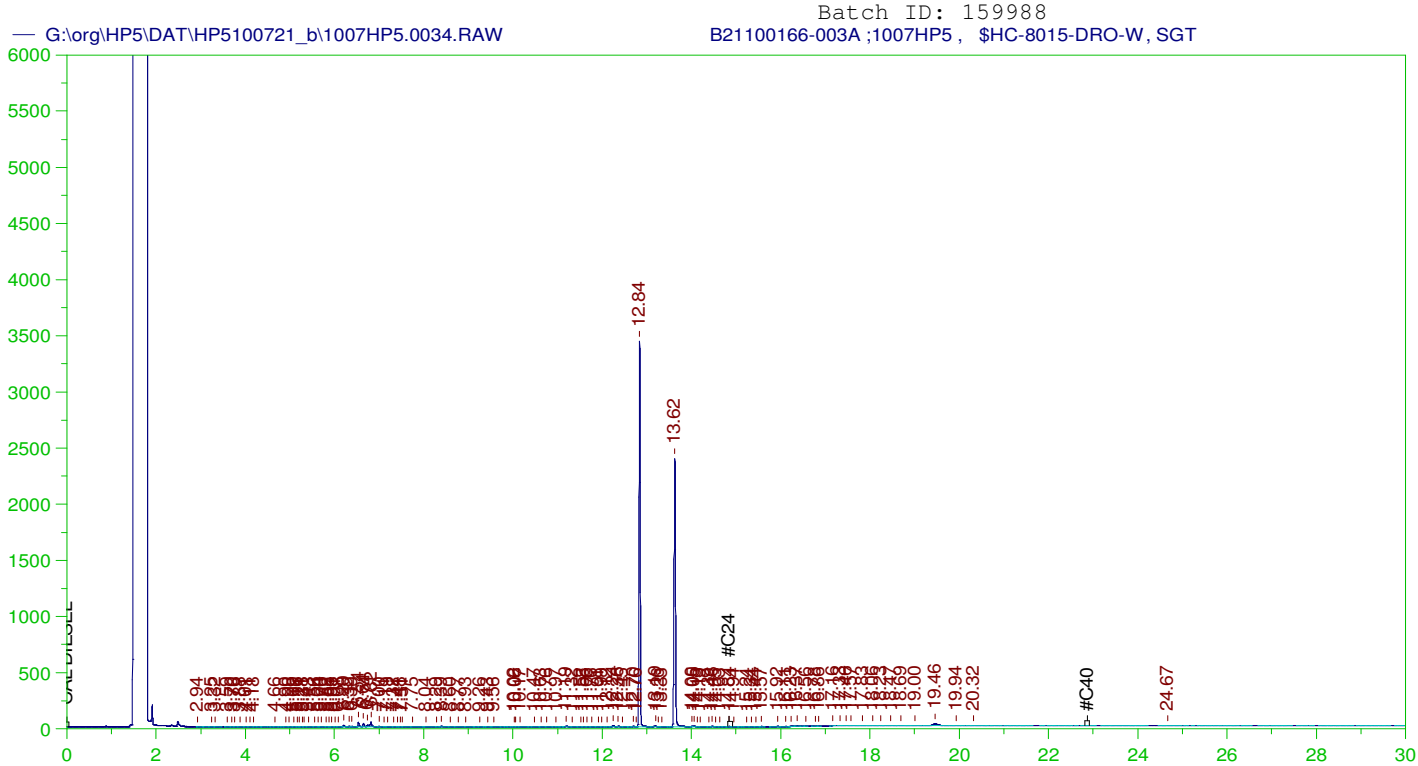
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl(SGT) | 12.837 | .192 | .181 | 94.32 | - |
| *1-Chlorooctadecane | 13.622 | .192 | .142 | 73.98 | - |

DRO (SGT-C10-C24)Area:274683 DRO (SGT-C10-C24)Amount: 8.966131E-03
TEH (SGT)Area:893801.3 TEH (SGT)Amount: 2.917523E-02

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0034.RAW
Date & Time Acquired: 10/8/2021 11:27:35 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

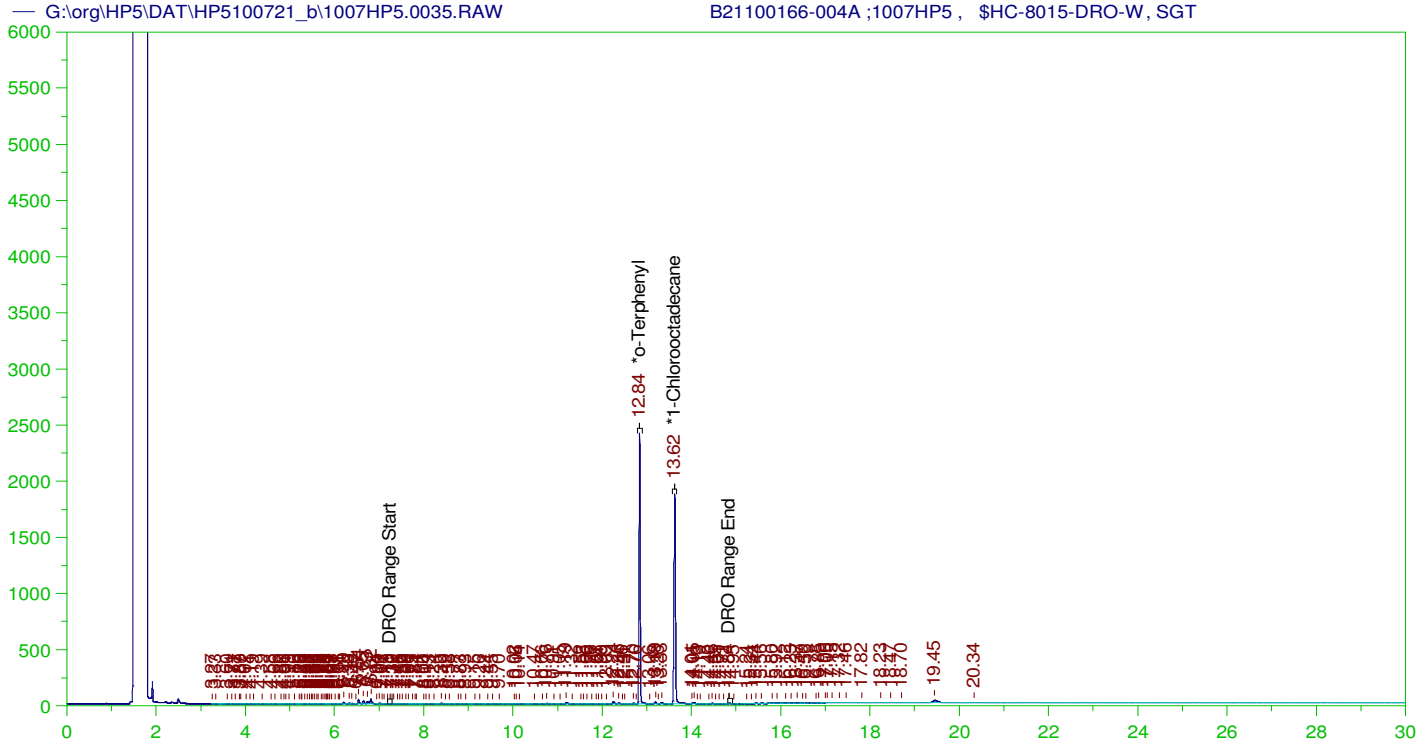
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (SGT-C24-C40)Area:230258.7 ~~RRO~~ Oil Range (SGT-C24-C40)AMOUNT: 7.756968E-03

AMN 10/13/2021

**ERH1769 (RHMW19)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0035.RAW B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0035.RAW
Date & Time Acquired: 10/8/2021 12:16:07 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

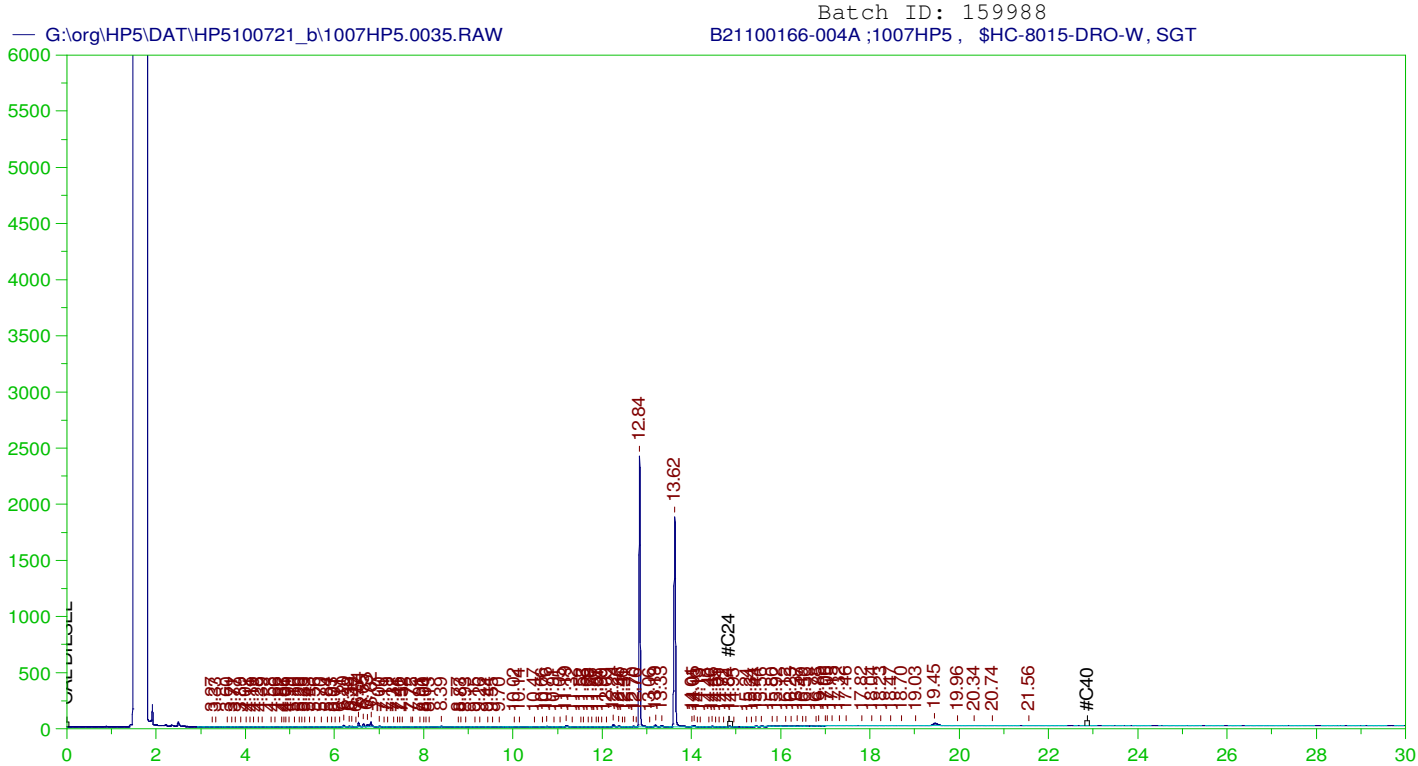
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl(SGT) | 12.836 | .196 | .129 | 66.03 | - |
| *1-Chlorooctadecane | 13.621 | .196 | .114 | 58.27 | - |

DRO (SGT-C10-C24) Area:370105.9 DRO (SGT-C10-C24) Amount: 1.231778E-02
TEH (SGT)Area:1125749 TEH (SGT)Amount: 3.746692E-02

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0035.RAW
Date & Time Acquired: 10/8/2021 12:16:07 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40) : 14.817 to 22.92

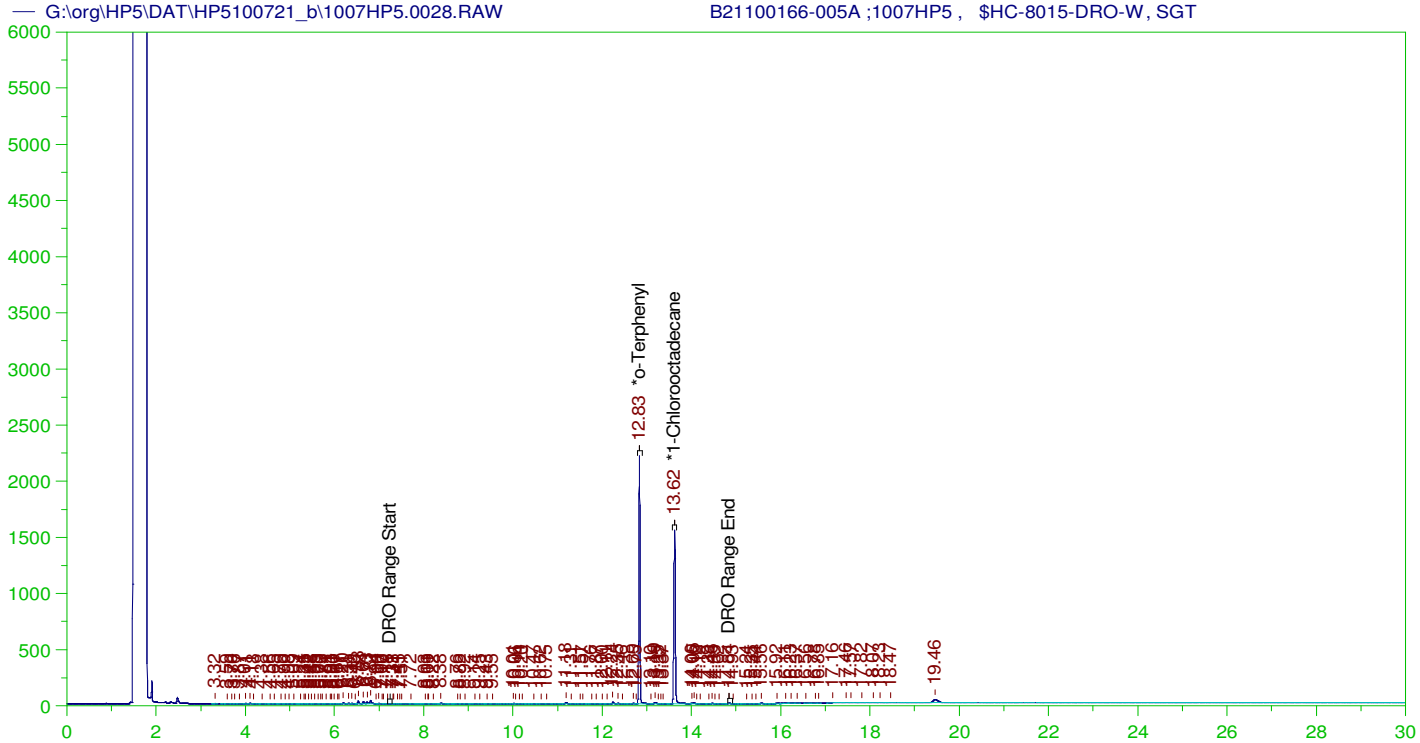
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (SGT-C24-C40) Area:289068.1 ~~RRO~~ Oil Range (SGT-C24-C40) AMOUNT: 9.929088E-03

AMN 10/13/2021

**ERH1762 (RHMW04)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0028.RAW B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0028.RAW
Date & Time Acquired: 10/8/2021 6:43:04 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

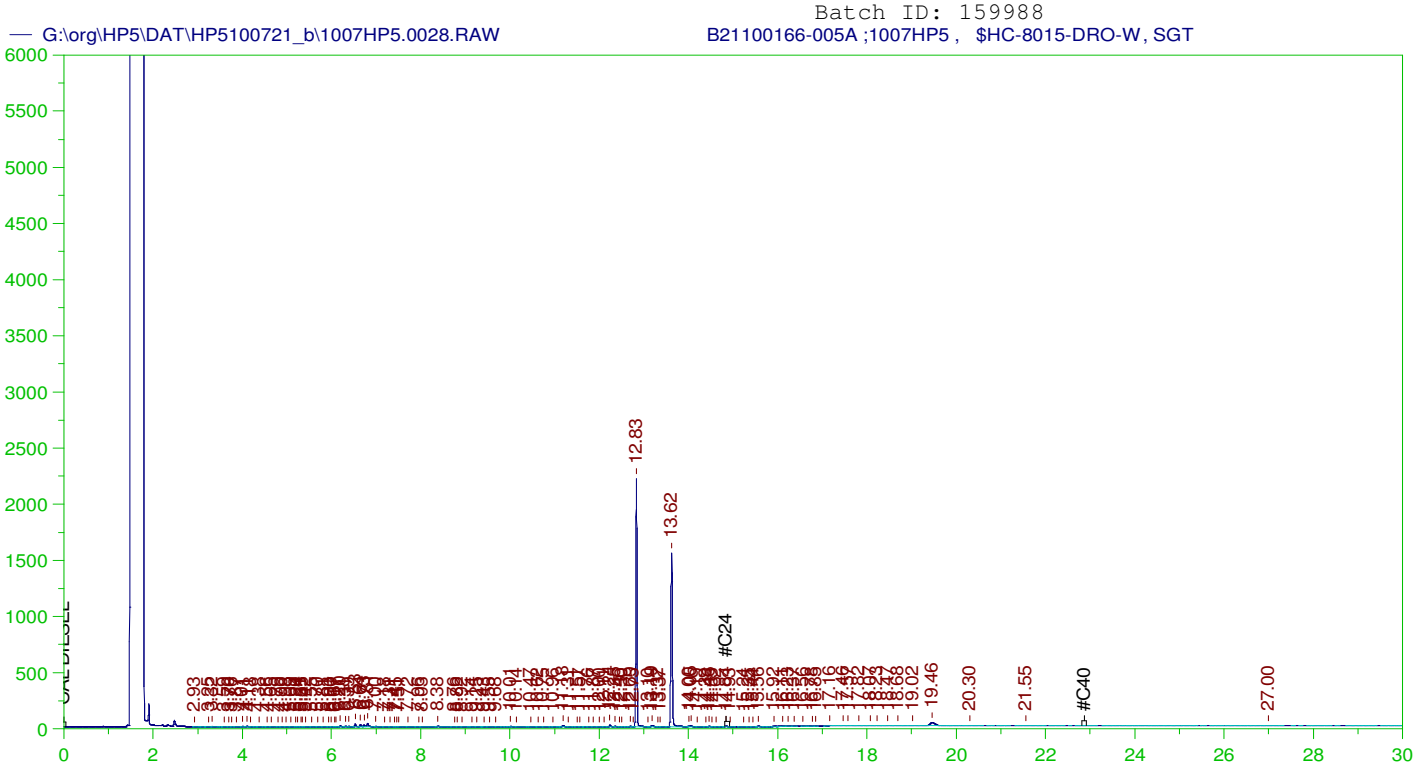
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl(SGT) | 12.831 | .194 | .118 | 60.96 | - |
| *1-Chlorooctadecane | 13.618 | .194 | .094 | 48.32 | - |

DRO (SGT-C10-C24)Area:297066.8 DRO (SGT-C10-C24)Amount: 9.790919E-03
TEH (SGT)Area:938954.4 TEH (SGT)Amount: 3.094667E-02

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0028.RAW
Date & Time Acquired: 10/8/2021 6:43:04 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40) : 14.817 to 22.92

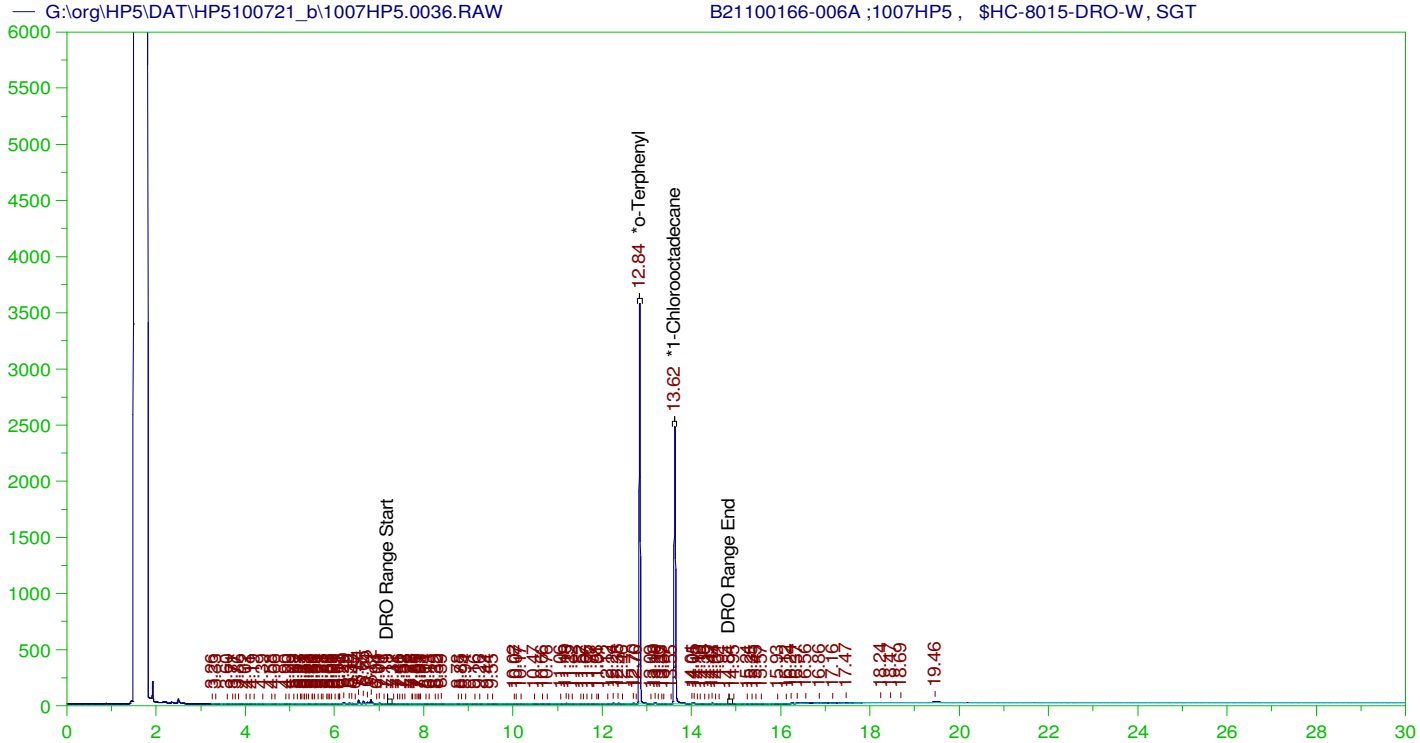
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (SGT-C24-C40) Area:313722.8 ~~RRO~~ Oil Range (SGT-C24-C40) AMOUNT: 1.067132E-02

AMN 10/13/2021

**ERH1763 (RHMW06)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0036.RAW B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0036.RAW
Date & Time Acquired: 10/8/2021 1:02:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

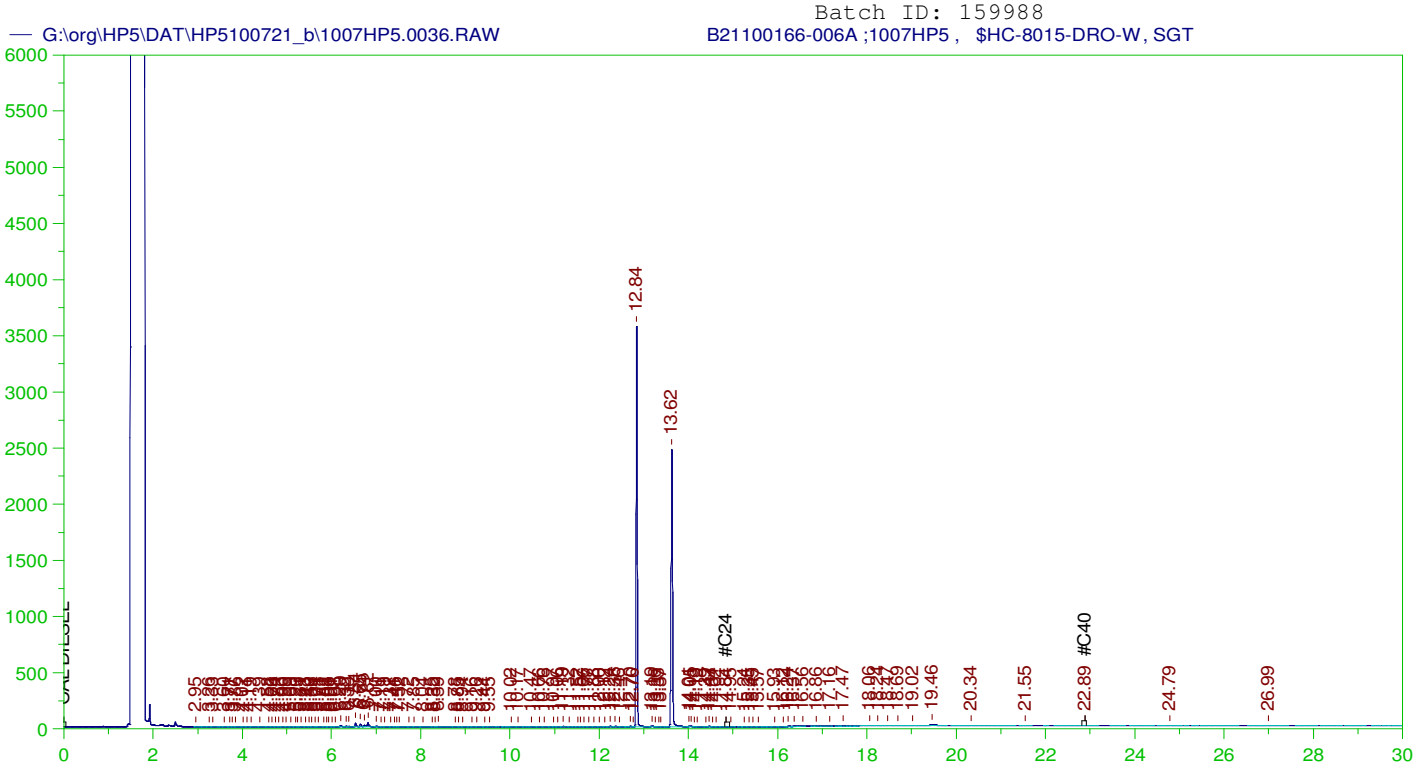
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl(SGT) | 12.839 | .196 | .191 | 97.61 | - |
| *1-Chlorooctadecane | 13.623 | .196 | .151 | 77.18 | - |

DRO (SGT-C10-C24)Area:250125.3 DRO (SGT-C10-C24)Amount: 8.324613E-03
TEH (SGT)Area:805769.7 TEH (SGT)Amount: 2.681744E-02

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0036.RAW
Date & Time Acquired: 10/8/2021 1:02:38 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40) : 14.817 to 22.92

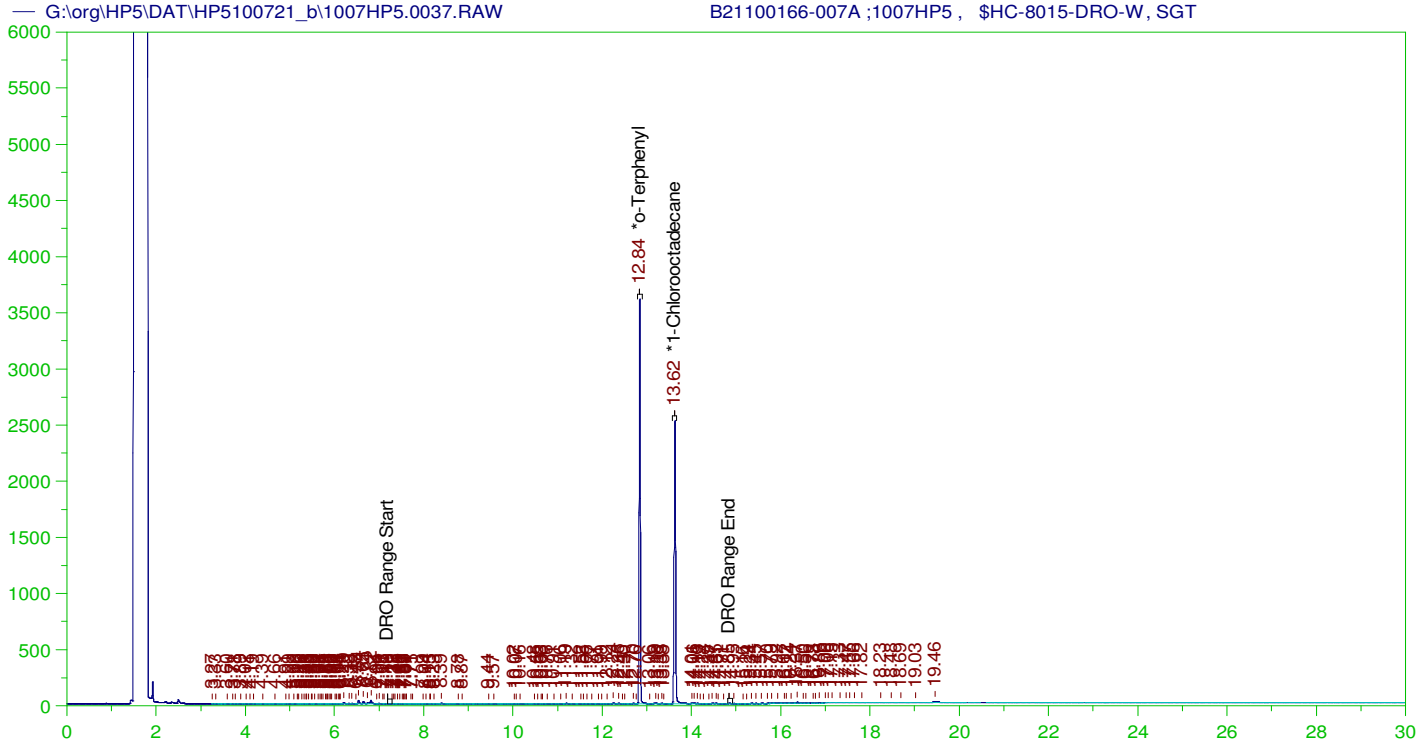
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (SGT-C24-C40) Area:157305.4 ~~RRO~~ Oil Range(SGT-C24-C40) AMOUNT: 5.403222E-03

AMN 10/13/2021

**ERH1768 (RHMW16)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0037.RAW B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0037.RAW
Date & Time Acquired: 10/8/2021 1:49:04 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

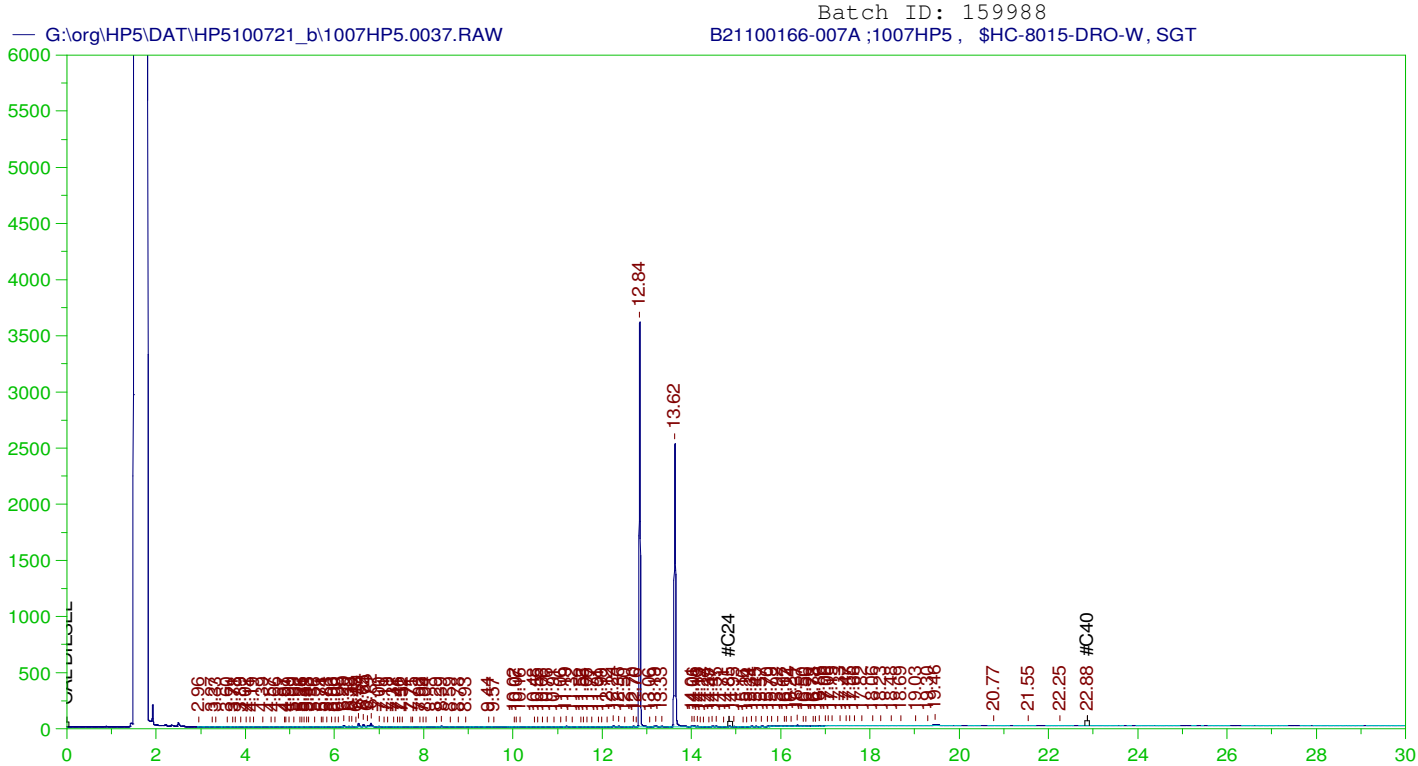
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl(SGT) | 12.839 | .192 | .189 | 98.09 | - |
| *1-Chlorooctadecane | 13.625 | .192 | .151 | 78.48 | - |

DRO (SGT-C10-C24)Area:293540.4 DRO (SGT-C10-C24)Amount: 9.581668E-03
TEH (SGT)Area:875291.1 TEH (SGT)Amount: 2.857102E-02

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0037.RAW
Date & Time Acquired: 10/8/2021 1:49:04 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40) : 14.817 to 22.92

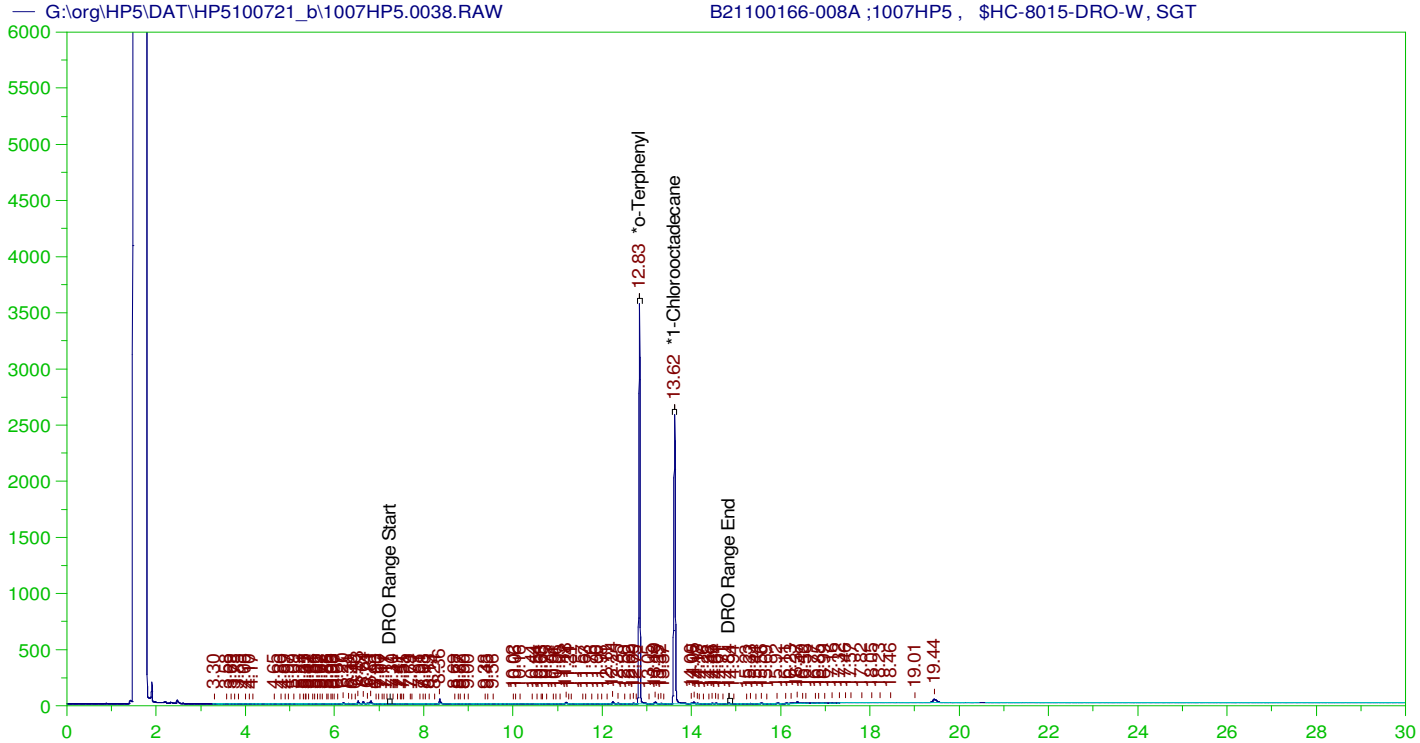
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (SGT-C24-C40) Area:230458.7 ~~RRO~~ Oil Range (SGT-C24-C40) AMOUNT: 7.763708E-03

AMN 10/13/2021

**ERH1770 (OWDFMW01)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0038.RAW B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0038.RAW
Date & Time Acquired: 10/8/2021 2:37:07 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

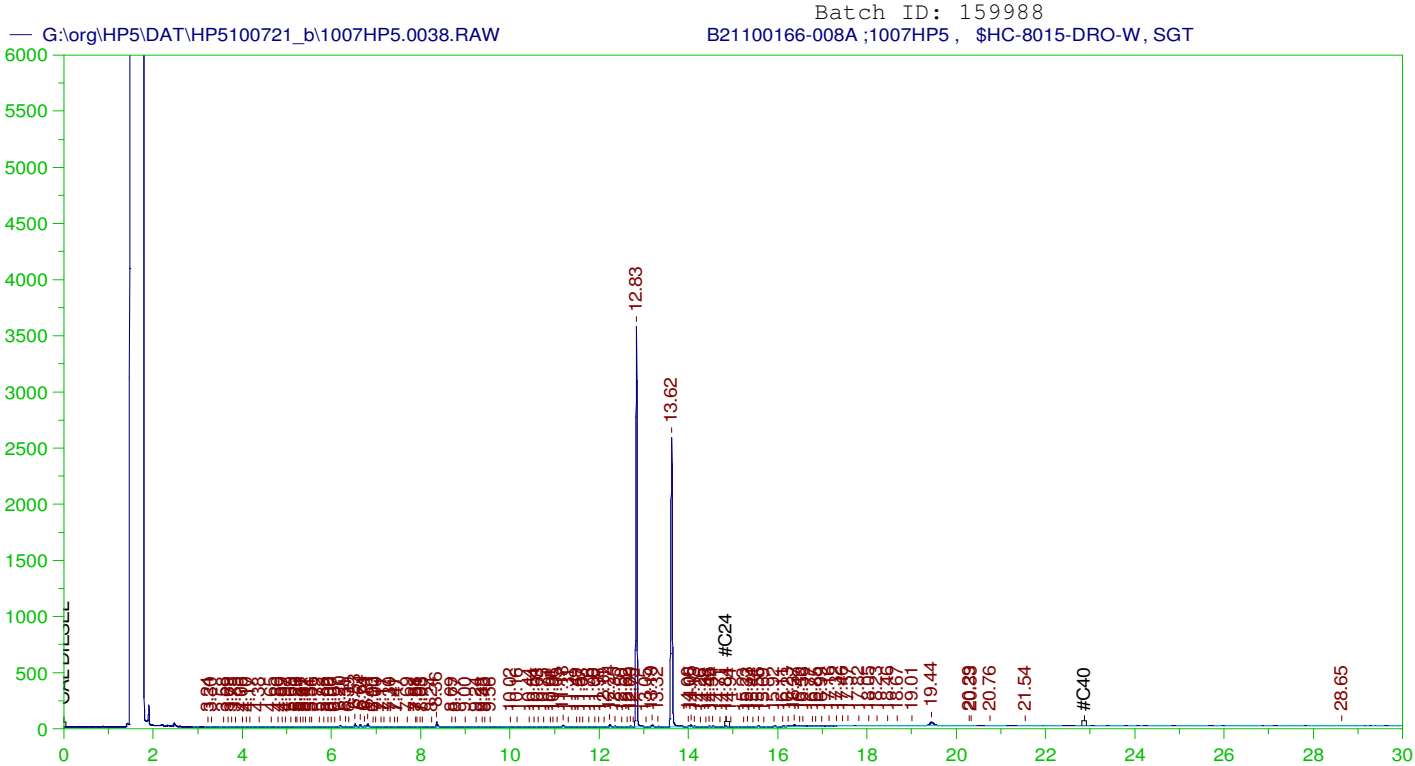
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl(SGT) | 12.833 | .19 | .185 | 97.48 | - |
| *1-Chlorooctadecane | 13.618 | .19 | .152 | 79.94 | - |

DRO (SGT-C10-C24)Area:520381.4 DRO (SGT-C10-C24)Amount: 1.674465E-02
TEH (SGT) Area:1196080 TEH (SGT) Amount: 3.848703E-02

AMN 10/13/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0038.RAW
Date & Time Acquired: 10/8/2021 2:37:07 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40) : 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (SGT-C24-C40) Area:389482.6 ~~RRO~~ Oil Range(SGT-C24-C40) AMOUNT: 1.293436E-02

AMN 10/13/2021

**From:** Ramos, Alethea <alethea.ramos@aecom.com>
**Sent:** Friday, November 05, 2021 10:37 PM
**To:** Shari Endy
**Cc:** Pascua, Margie; Hart, Jeff
**Subject:** CV18F0126: CUI_SDGs Requiring Revisions by 11/10

CUI

Hi Shari,

The only revision needed for SDGs indicated in both "Revisions Needed by 11/10" and "Additional Revisions" list is to revise Level 2 Reports to reflect J-flagged detects above the DL. For SDG B21100834, if you could also provide the Level 4 and Level 2 report, that would be greatly appreciated. In "GOOD NO REVISIONS NEEDED" list, those reports are complete. Revised Level 2 reports for SDGs listed under the "Revisions Needed By 11/10" list will be provided to Navy in the RRR Quarterly Report that is due on 11/10 to go through internal review. It was good talking to you and the Energy team today!

**Revisions/Reports Needed By 11/10**
B21092272
B21100125
B21100166
B21100828
B21100834 (missing L4)
B21100806

**Additional Revisions**
B21101306
B21101919

**GOOD NO REVISIONS NEEDED**
B21092273
B21092370
B21100022
B21092660
B21100147
B21100126
B21100171
B21100756
B21100824
B21100827

Have a good weekend,

**Alethea Ramos, CIH**
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CUI

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*07-May-21*

**Run ID** GCFID-HP5-B_210108B

| | |
|---|---|
| **Run Start Date:** | 1/8/2021 |
| **Analyst:** | Ann Nebel |
| **Ical:** | |
| **Column ID:** | |
| **Comments:** | NEW ICAL<br>SW8015C_DRO210108HA.CAL |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CALS | 12/31/2021 |
| DRO201210A | #2 Diesel in Acetone 150,000 ug/mL | | | | | SECOND S | 6/10/2021 |
| DRO210105B | EPH (4) SURR-1000 ug/mL ea. in Hexane | | | | | SURRS | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154799 | CCV_0108HP51 | HC-8015-DRO- | CAL1 | | 1/8/2021 2:21:25 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1350772 | | 0.15 | 0 | 0 | 0.0499 | 0.3 | 50 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154800 | CCV_0108HP51 | HC-8015-DRO- | CAL2 | | 1/8/2021 3:03:30 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.865478 | | 3.75 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154801 | CCV_0108HP51 | HC-8015-DRO- | CAL3 | | 1/8/2021 3:45:32 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.3786 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154802 | CCV_0108HP51 | HC-8015-DRO- | CAL4 | | 1/8/2021 4:27:38 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 39.10215 | | 37.5 | 0 | 0 | 0.0499 | 0.3 | 50 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154803 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 5:09:49 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 50.03634 | | 50 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154804 | CCV_0108HP50 | HC-8015-DRO- | CAL1 | | 1/8/2021 5:52:15 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00201784 | | 0.002 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154805 | CCV_0108HP50 | HC-8015-DRO- | CAL2 | | 1/8/2021 6:34:45 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04980491 | | 0.05 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154806 | CCV_0108HP50 | HC-8015-DRO- | CAL3 | | 1/8/2021 7:17:18 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2027571 | | 0.2 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154807 | CCV_0108HP50 | HC-8015-DRO- | CAL4 | | 1/8/2021 7:59:52 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.4989882 | | 0.5 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154808 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 8:42:33 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.9852039 | | 1 | 0 | 0 | 0.000327 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154809 | CCV_0108HP51 | HC-8015-DRO- | ICV | | 1/8/2021 9:25:08 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 14.94195 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |

| | |
|---|---|
| File Name: | G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL |
| Version: | 6 |

| | |
|---|---|
| Creator: | AMN 1/11/2021 |
| Description: | DRO-8015C. New ICal Per 0108HP5 (2021)-2 uL Inj.; COD added using OTP RFs |
| Reason for change: | |

External standard calibration

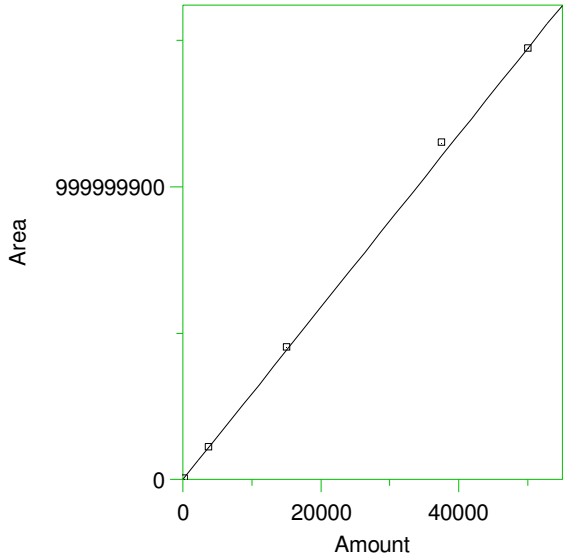
| | |
|---|---|
| Standard injection volume: | 1 |
| Standard sample weight: | 1 |
| Area reject threshold: | 500 |
| Reference peak area reject threshold: | 500 |
| Amount units: | nanograms |

No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.82 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

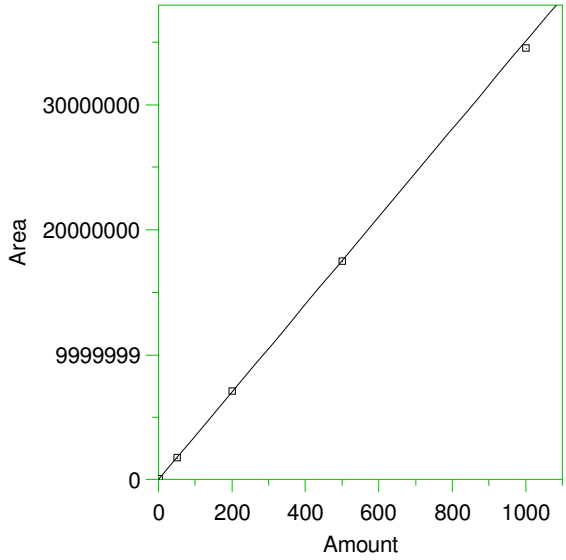
Y = 29457.33 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9985872 |
| Average error: | 3.979% |
| Average CF: | 29457.33 |
| RSD: | 5.768% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3979014 | 26526.76 | -9.949 | Manual | 1/11/2021 9:46:00 AM |
| 2 | 3750 | 1.138667E+08 | 30364.46 | 3.079 | Manual | 1/11/2021 9:46:09 AM |
| 3 | 15000 | 4.530125E+08 | 30200.83 | 2.524 | Manual | 1/11/2021 9:46:18 AM |
| 4 | 37500 | 1.151845E+09 | 30715.87 | 4.272 | Manual | 1/11/2021 9:46:27 AM |
| 5 | 50000 | 1.473937E+09 | 29478.74 | 0.073 | Manual | 1/11/2021 9:46:39 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.57 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

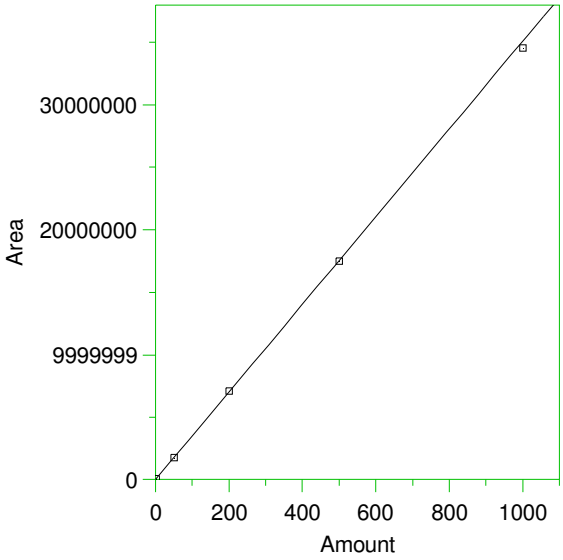
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.36 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

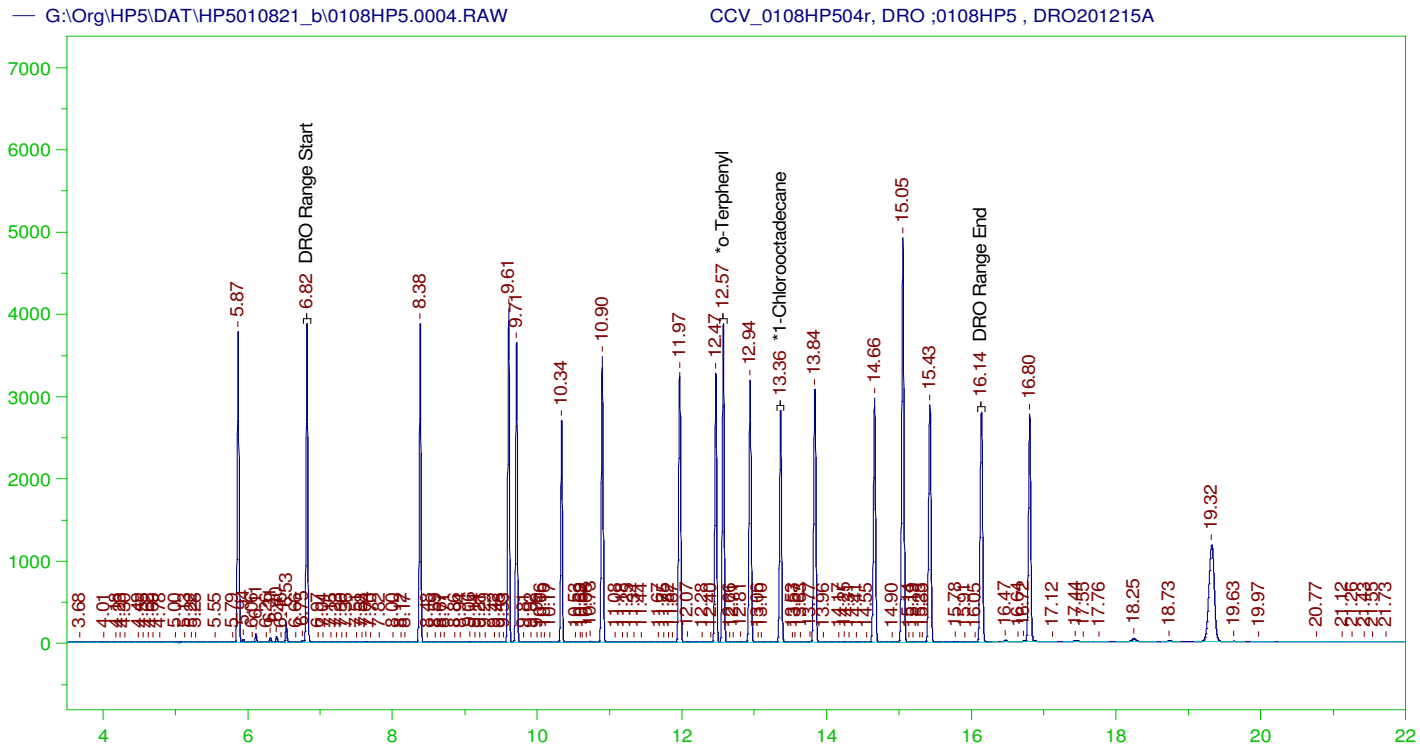
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP504r, DRO ;0108HP5 , DRO201215A
Raw File: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW
Date & Time Acquired: 1/8/2021 12:47:29 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | - |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | - |

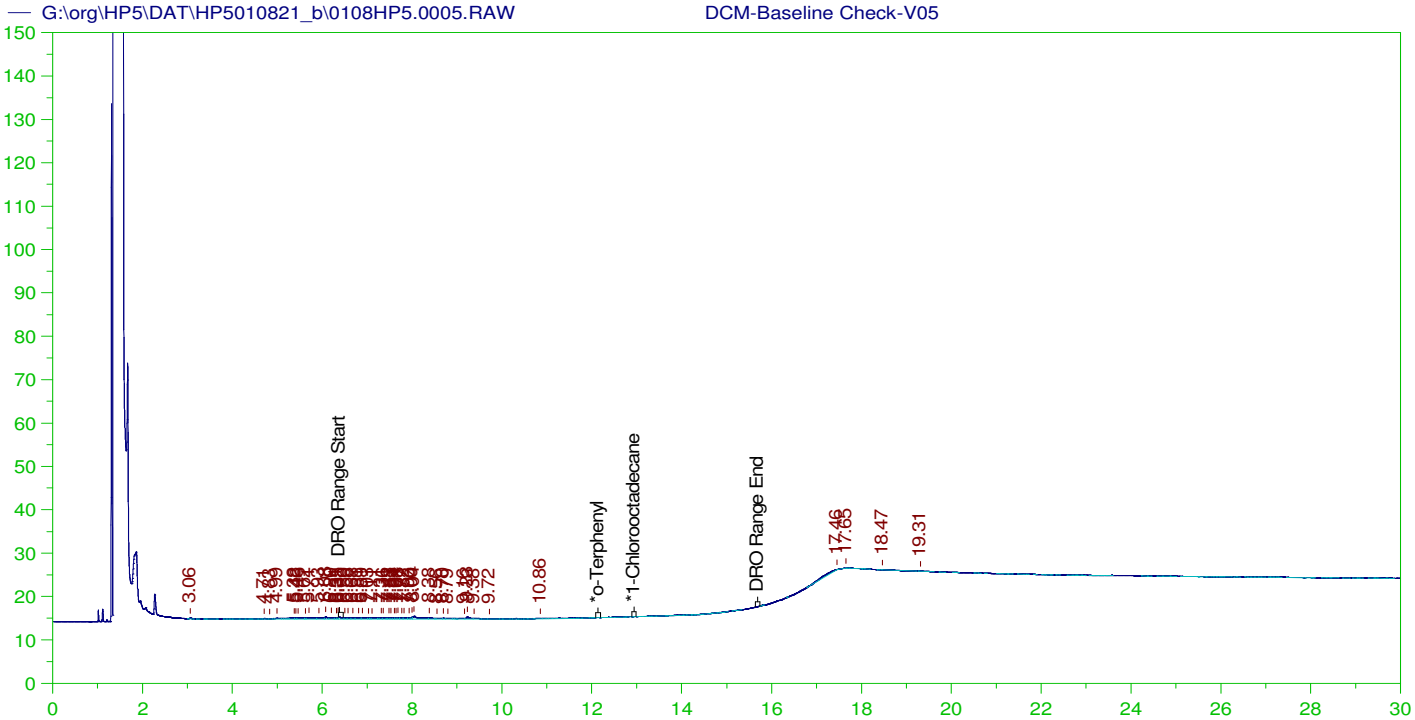
DRO Area:8.880706E+07 DRO Amount: 3014.77
TEH Area:1.082932E+08 TEH Amount: 3676.273

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3676.27 | 24.51 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | 85-115 |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\004_CCV_0108HP504r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

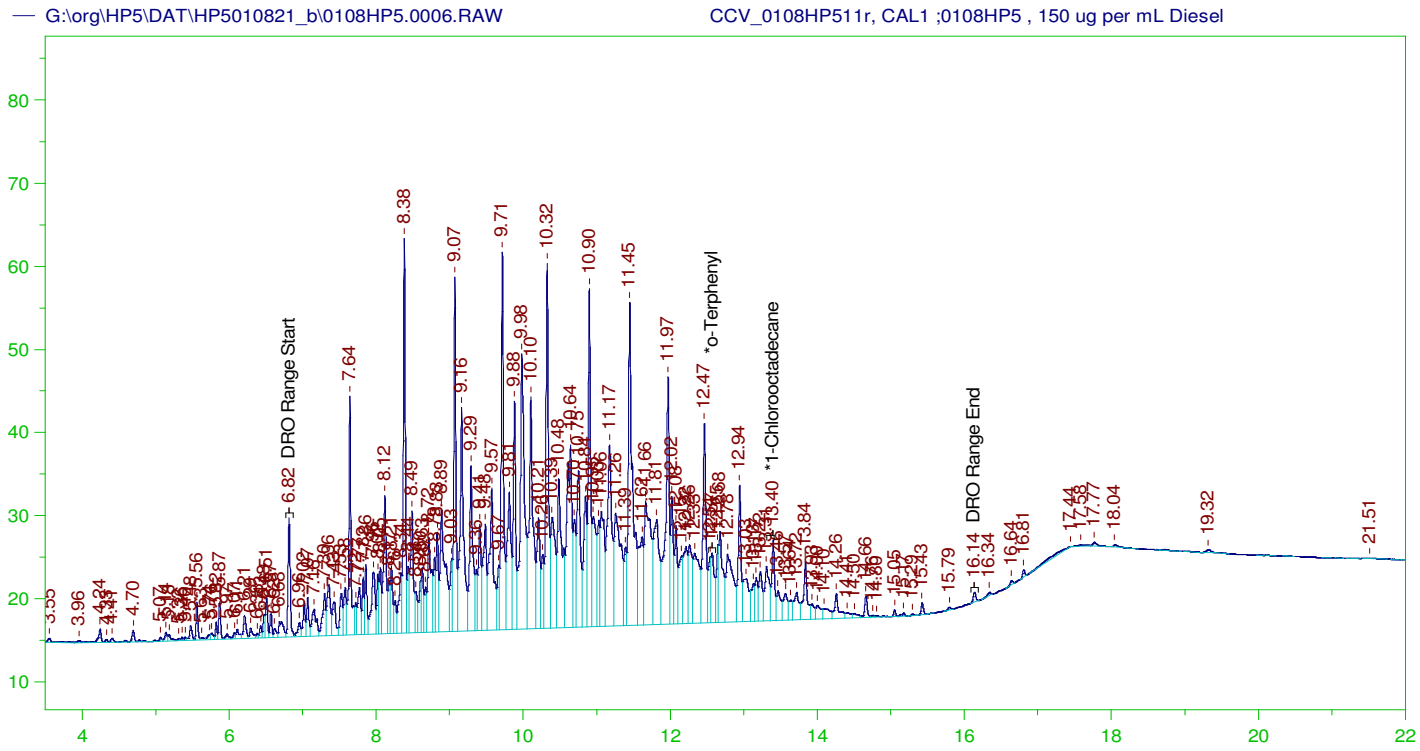
Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0005.RAW
Date & Time Acquired: 1/8/2021 1:29:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-GX-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO200123GX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28963.21
Rt range for Diesel Range Organics: 6.36 to 15.74

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.787 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.787 | 200. | . | . | - |

DRO Area:48911.73 DRO Amount: 1.688754
TEH Area:90991.55 TEH Amount: 3.141625

G:\org\HP5\dat\HP5010821_b\Review\005_DCM-Baseline Chec_DR_8015-GX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW
Date & Time Acquired: 1/8/2021 2:21:25 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | - |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | - |

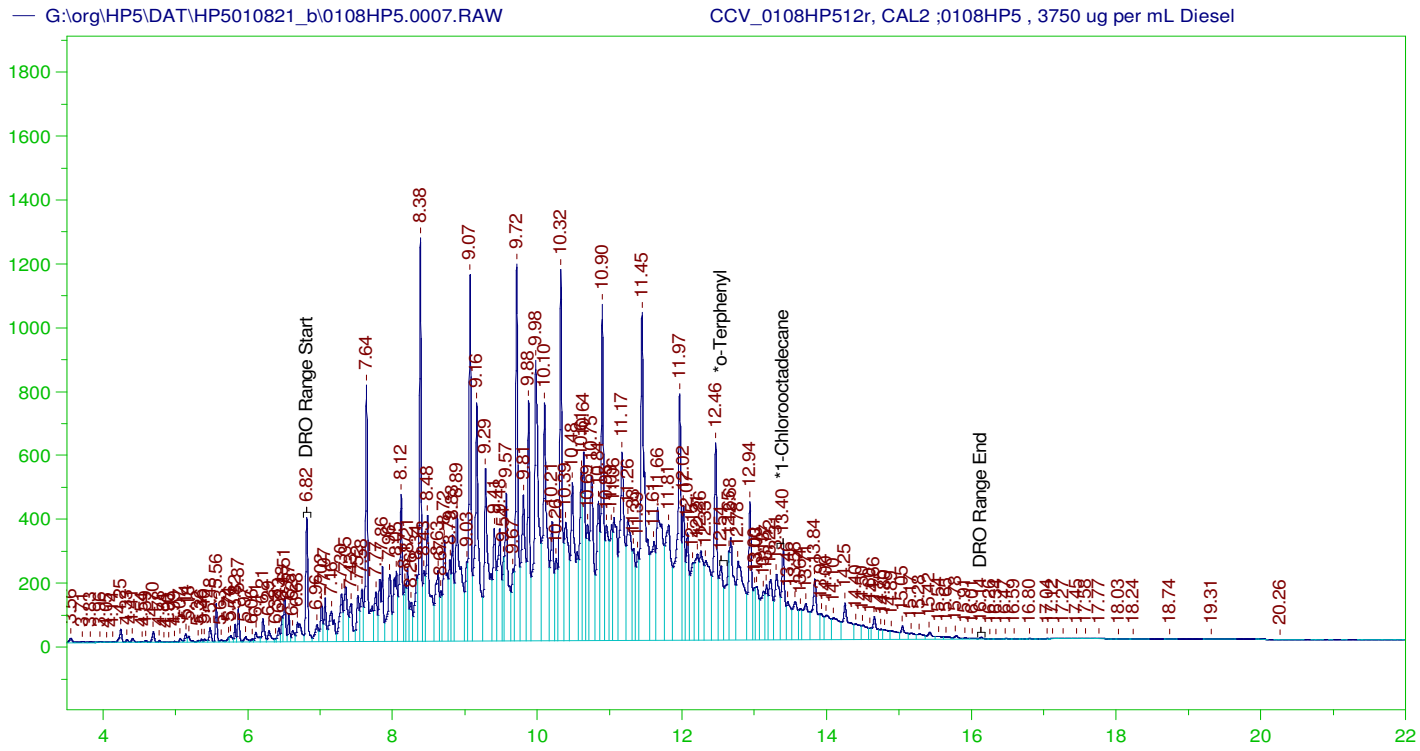
DRO Area:3854036 DRO Amount: 130.8345
TEH Area:3979014 TEH Amount: 135.0772

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 135.08 | .9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | 85-115 |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\006_CCV_0108HP511r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW
Date & Time Acquired: 1/8/2021 3:03:30 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | - |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | - |

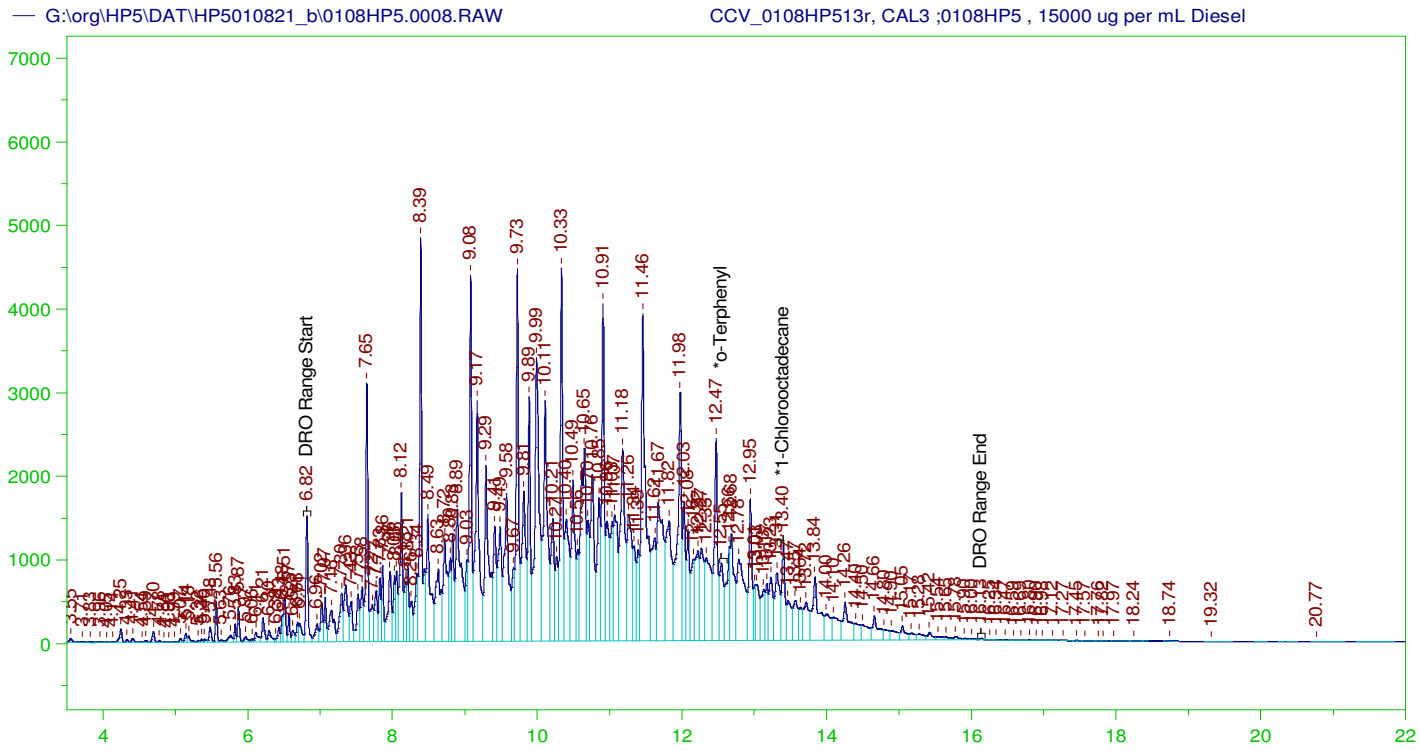
DRO Area:1.111179E+08 DRO Amount: 3772.164
TEH Area:1.138667E+08 TEH Amount: 3865.478

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3865.48 | 25.77 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | 85-115 |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\007_CCV_0108HP512r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW
Date & Time Acquired: 1/8/2021 3:45:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | - |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | - |

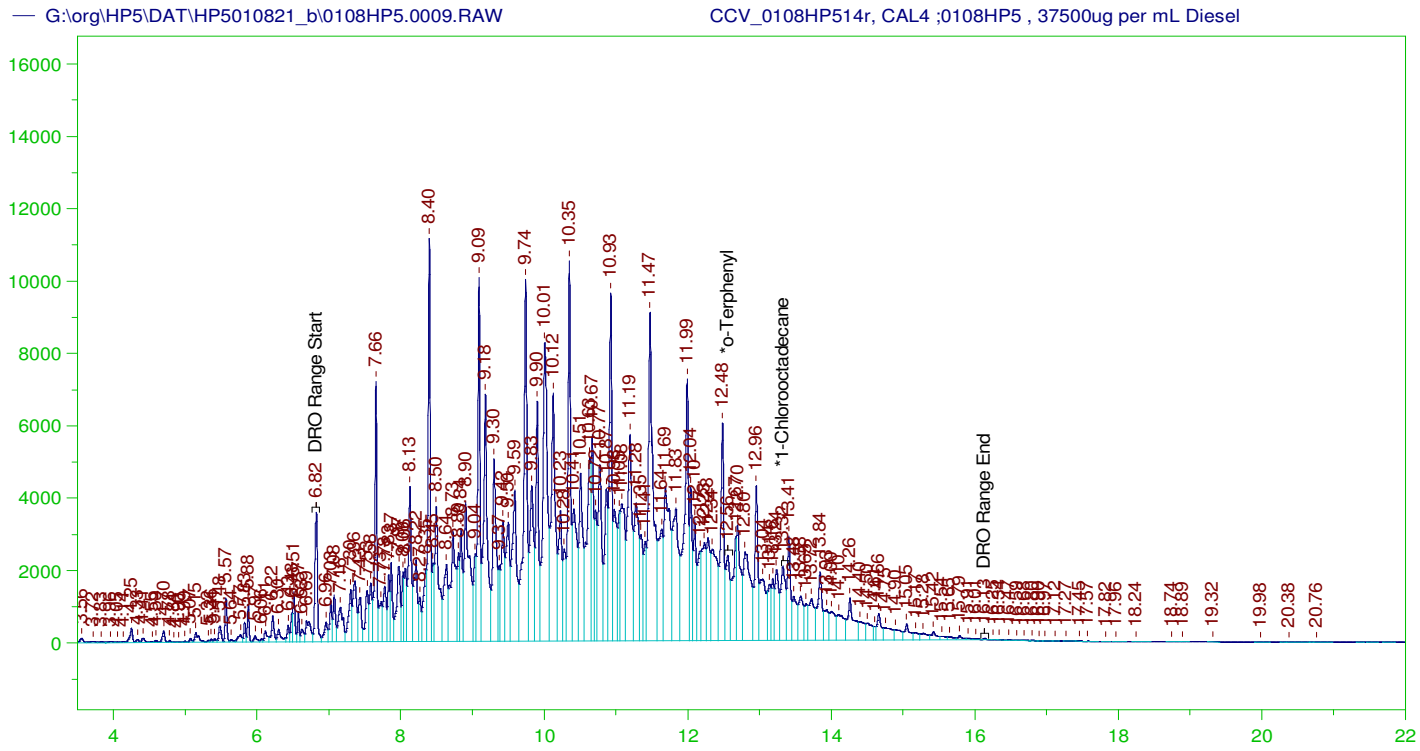
DRO Area:4.420163E+08 DRO Amount: 15005.31
TEH Area:4.530125E+08 TEH Amount: 15378.6

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15378.6 | 102.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | 85-115 |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\008_CCV_0108HP513r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW
Date & Time Acquired: 1/8/2021 4:27:38 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | - |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | - |

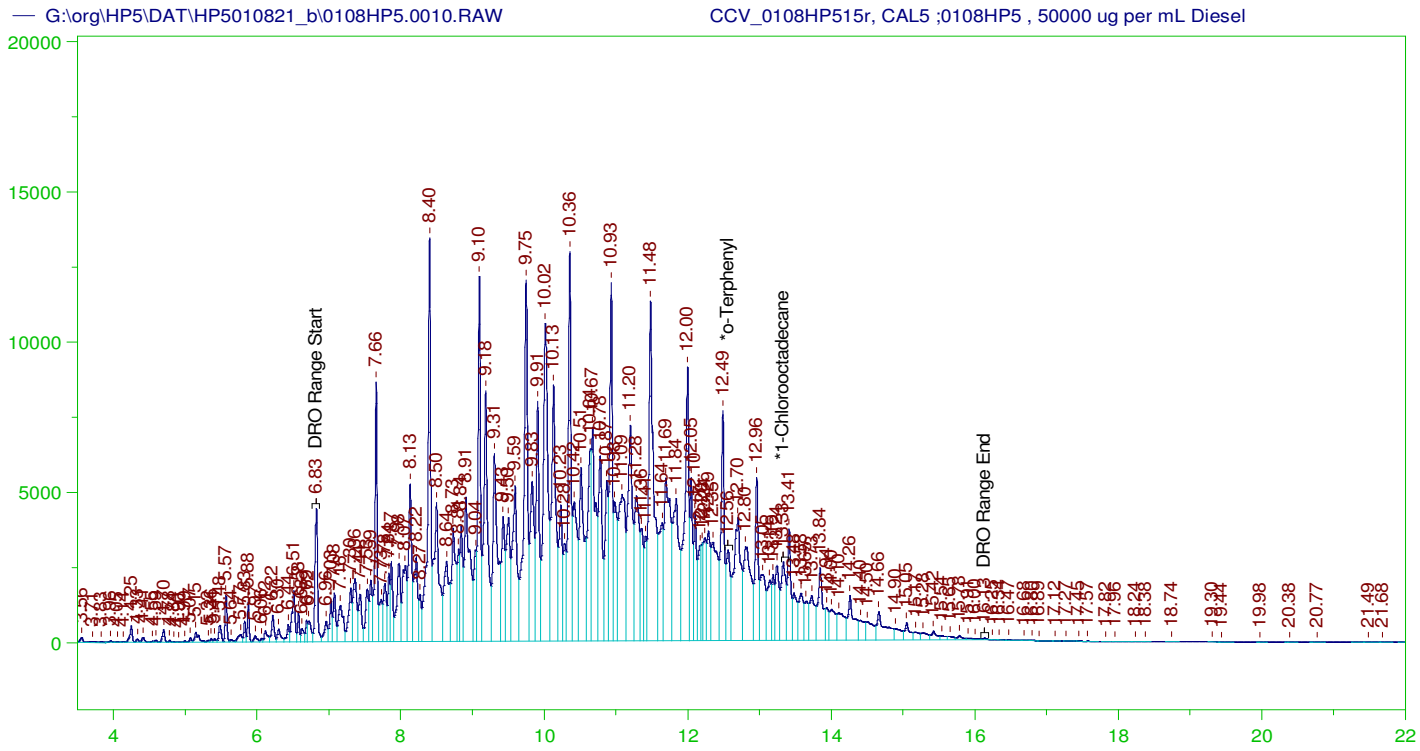
DRO Area:1.1239E+09 DRO Amount: 38153.5
TEH Area:1.151845E+09 TEH Amount: 39102.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39102.15 | 260.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | 85-115 |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\009_CCV_0108HP514r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW
Date & Time Acquired: 1/8/2021 5:09:49 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | - |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | - |

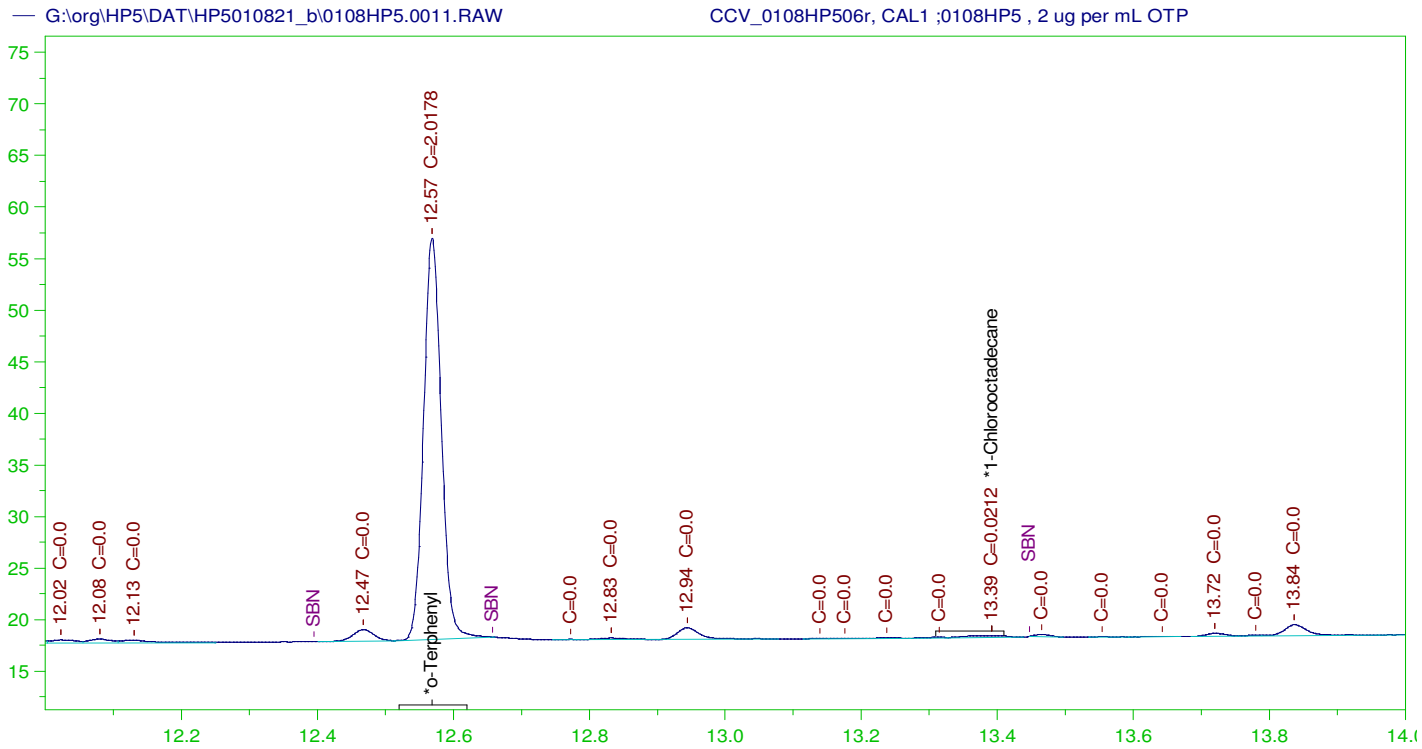
DRO Area:1.438162E+09 DRO Amount: 48821.87
TEH Area:1.473937E+09 TEH Amount: 50036.34

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 50036.34 | 333.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | 85-115 |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\010_CCV_0108HP515r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW
Date & Time Acquired: 1/8/2021 5:52:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | - |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | - |

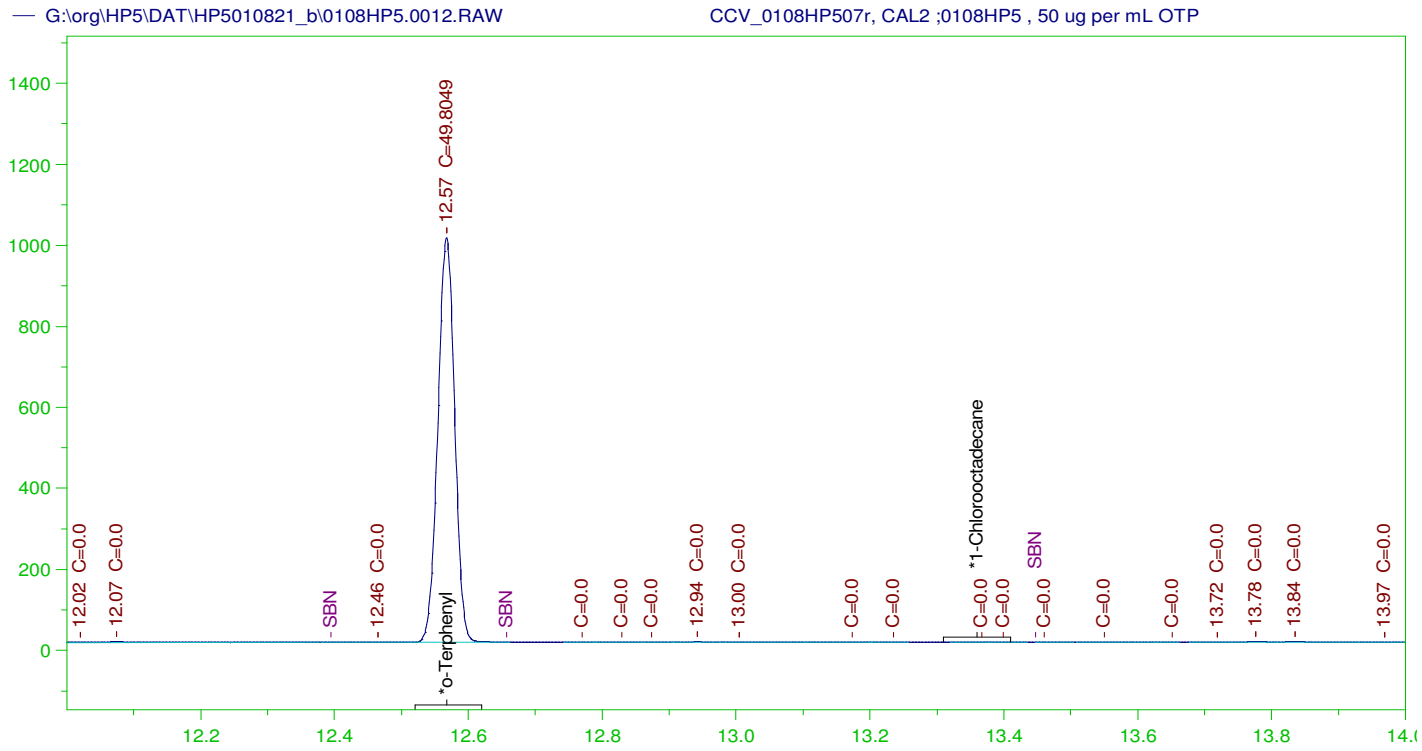
DRO Area:153898.5 DRO Amount: 5.224453
TEH Area:367701.2 TEH Amount: 12.4825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | 85-115 |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\011_CCV_0108HP506r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW
Date & Time Acquired: 1/8/2021 6:34:45 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | - |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | - |

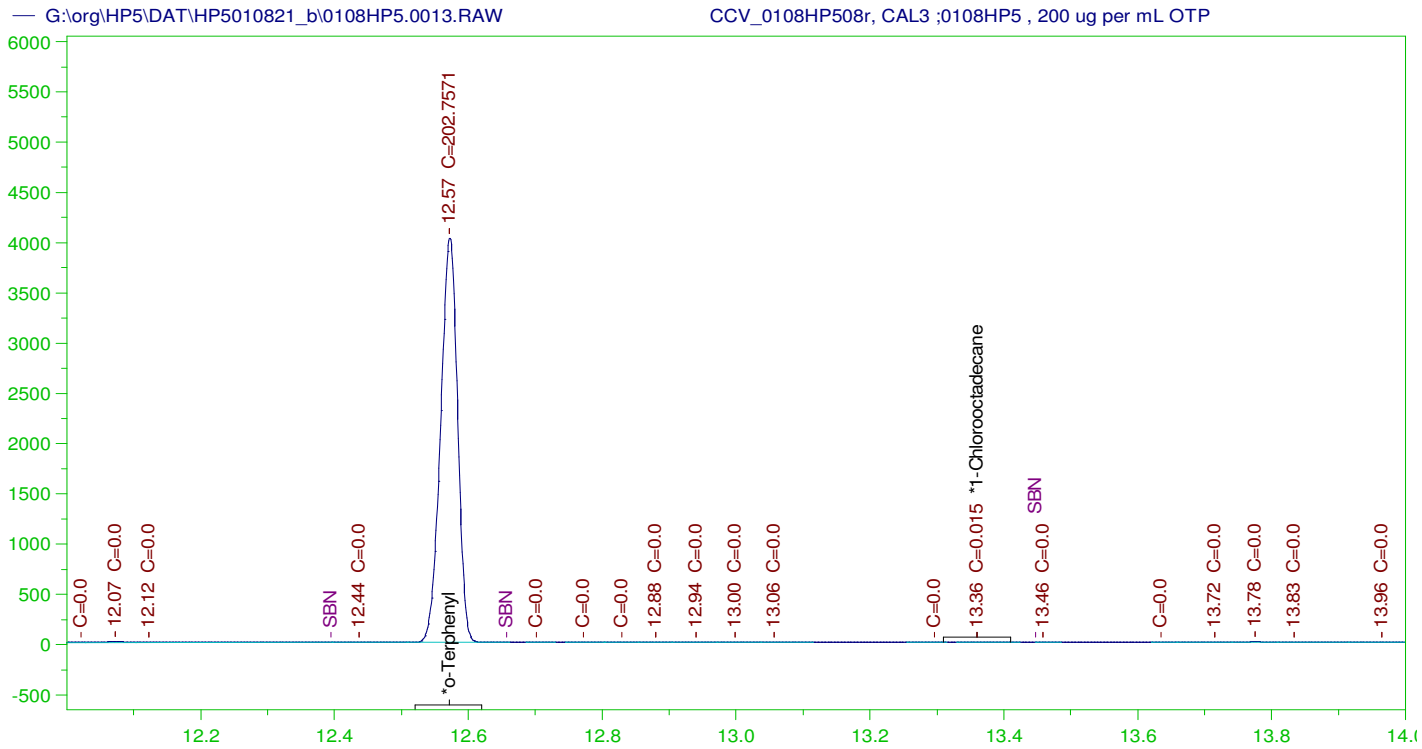
DRO Area:198540.3 DRO Amount: 6.739929
TEH Area:443484.3 TEH Amount: 15.05514

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | 85-115 |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\012_CCV_0108HP507r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW
Date & Time Acquired: 1/8/2021 7:17:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | - |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | - |

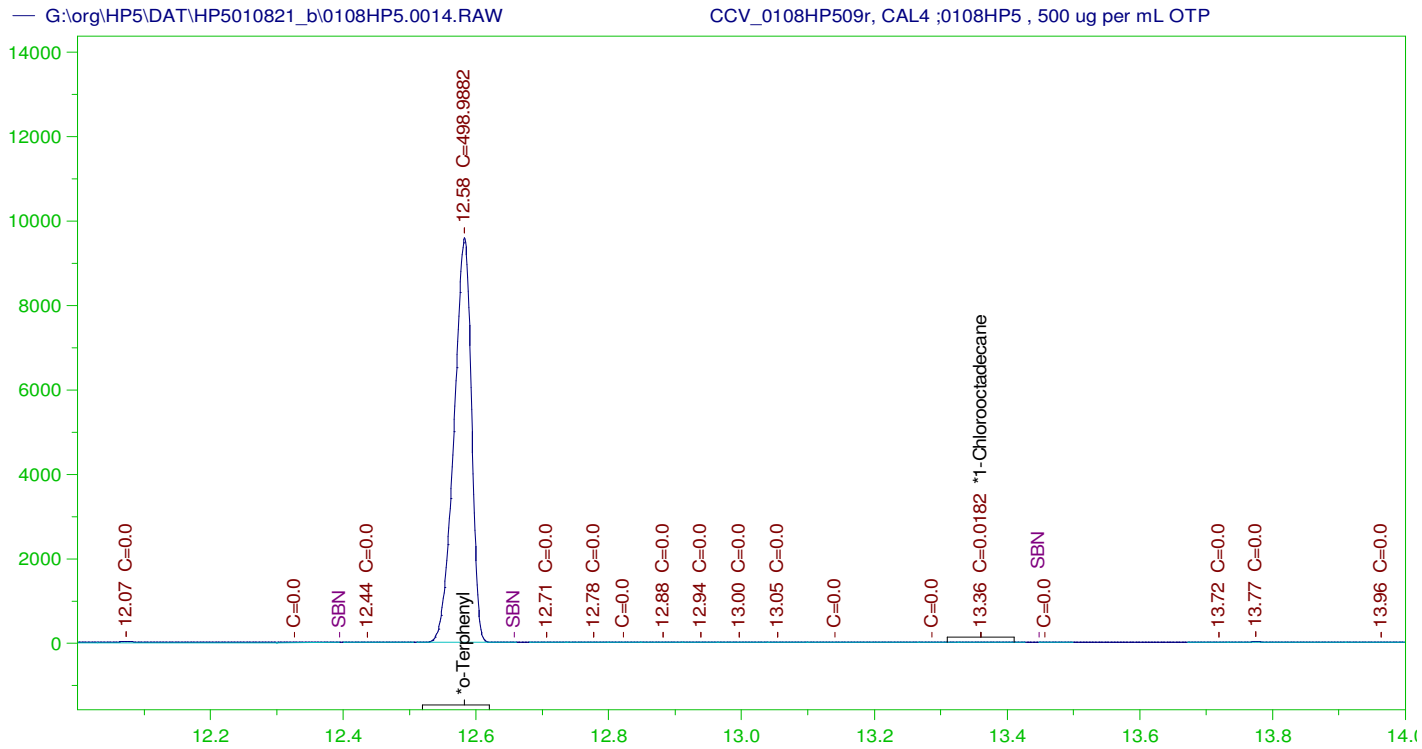
DRO Area:425468.4 DRO Amount: 14.44355
TEH Area:809202.7 TEH Amount: 27.47033

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 27.47 | .18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | 85-115 |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\013_CCV_0108HP508r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW
Date & Time Acquired: 1/8/2021 7:59:52 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | - |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | - |

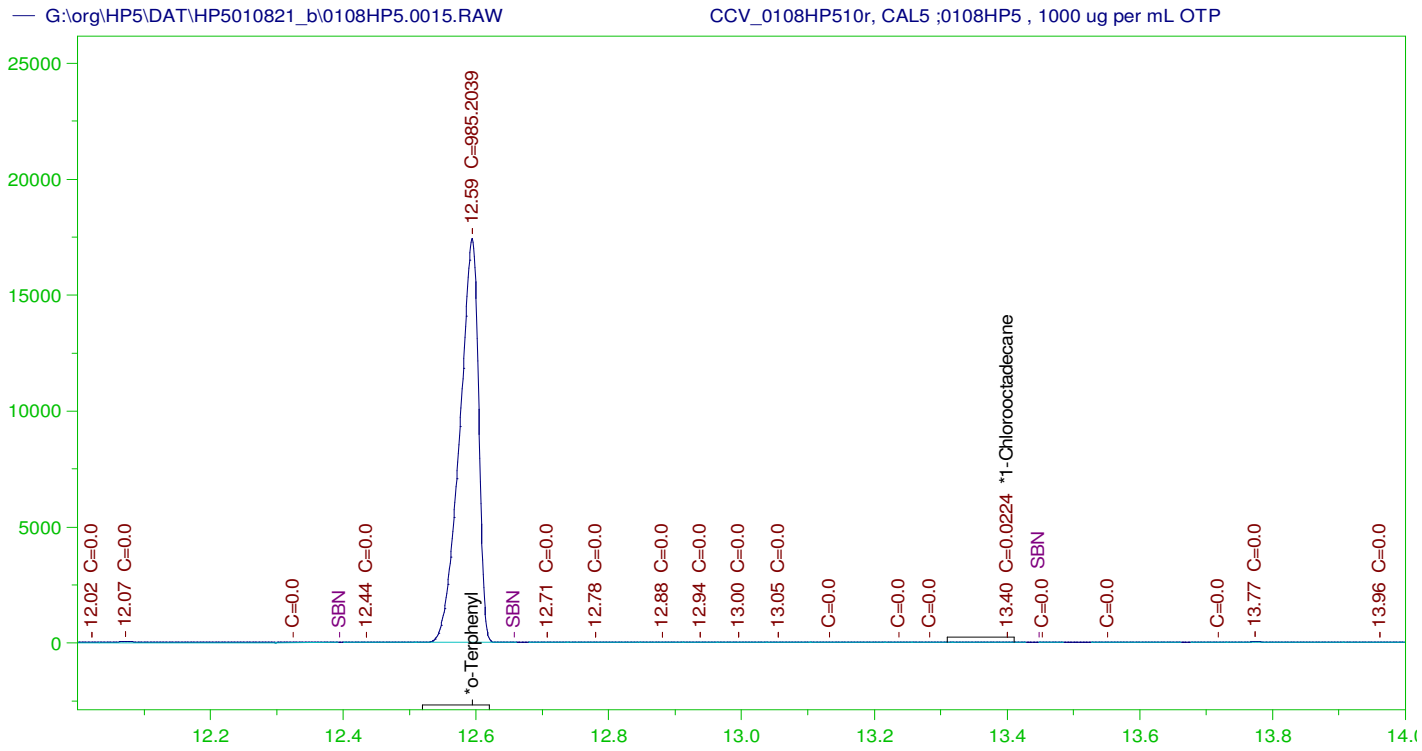
DRO Area:651862.6 DRO Amount: 22.12904
TEH Area:1164840 TEH Amount: 39.5433

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39.54 | .26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | 85-115 |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\014_CCV_0108HP509r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW
Date & Time Acquired: 1/8/2021 8:42:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | - |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | - |

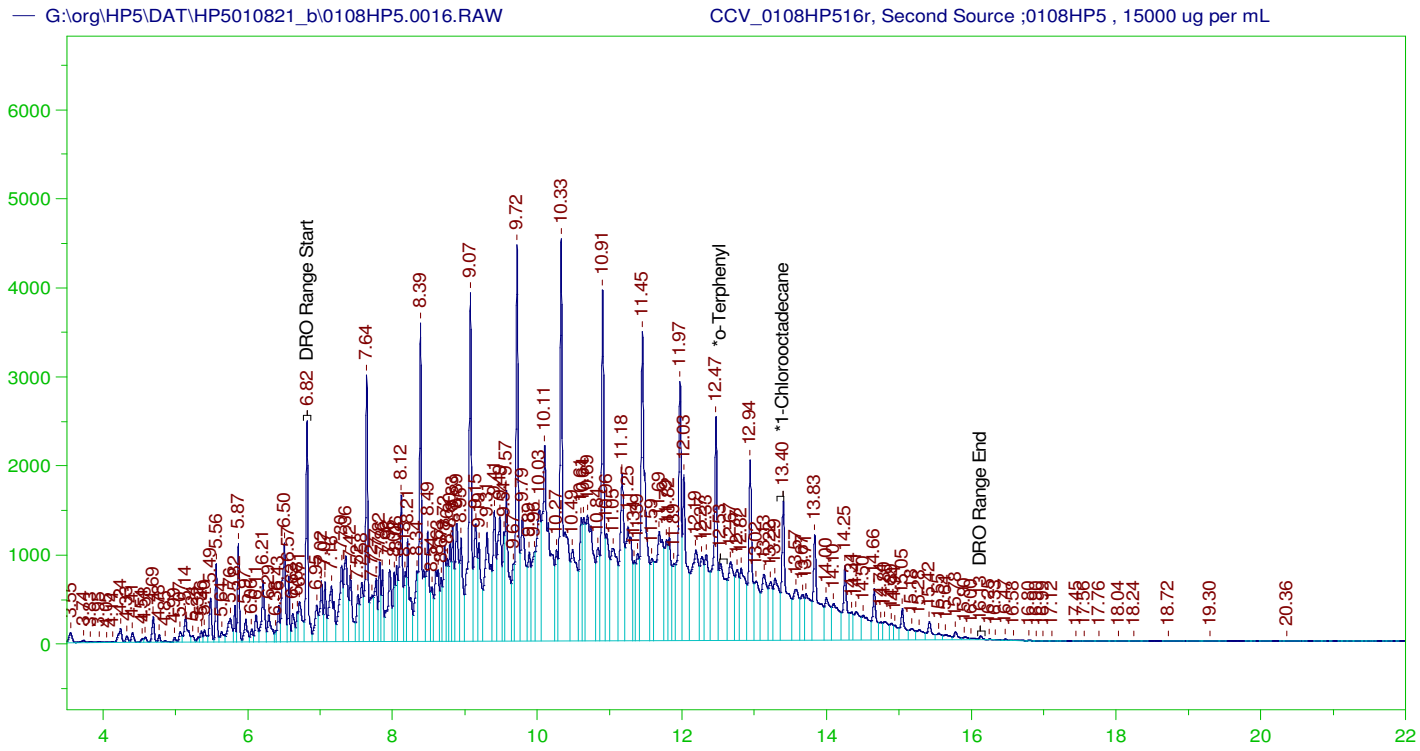
DRO Area:856596.9 DRO Amount: 29.07924
TEH Area:1371563 TEH Amount: 46.561

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 46.56 | .31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | 85-115 |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\015_CCV_0108HP510r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW
Date & Time Acquired: 1/8/2021 9:25:08 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | - |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | - |

DRO Area:4.138122E+08 DRO Amount: 14047.85
TEH Area:4.4015E+08 TEH Amount: 14941.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 14941.95 | 99.61 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | 85-115 |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\016_CCV_0108HP516r_DC_8015-HA-L%.xls

Write Sequence

Insert Entries(Have the first cell for entries selected)

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj.. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | Integration is valley to valley. Assigned Set Baseline All Valley on at 17.5. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.01.27 15:17:17 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Sep-21*

**Run ID** GCFID-HP5-B_210218B

**Run Start Date:** 2/18/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015 OIL range calibration
SW8015_OIL210218

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL | 8/31/2025 |
| DRO210204A | Carbon Scan STD | | | | | MARKER | 3/5/2028 |
| DRO210217A | 20,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | ICV | 8/23/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282665 | CCV_0218HP50 | HC-8015-DRO- | CAL1 | | 2/18/2021 12:03: | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1468323 | | 0.15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282666 | CCV_0218HP50 | HC-8015-DRO- | CAL2 | | 2/18/2021 1:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.062811 | | 1 | 0 | 0 | 0.15 | 0.3 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282667 | CCV_0218HP50 | HC-8015-DRO- | CAL3 | | 2/18/2021 2:51:0 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.035713 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282668 | CCV_0218HP50 | HC-8015-DRO- | CAL4 | | 2/18/2021 4:14:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.69295 | | 15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282669 | CCV_0218HP51 | HC-8015-DRO- | CAL5 | | 2/18/2021 5:38:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 28.20769 | | 30 | 0 | 0 | 0.15 | 0.3 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282670 | CCV_0218HP51 | HC-8015-DRO- | ICV | | 2/18/2021 8:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.474465 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 109% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Nam | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Version: 4

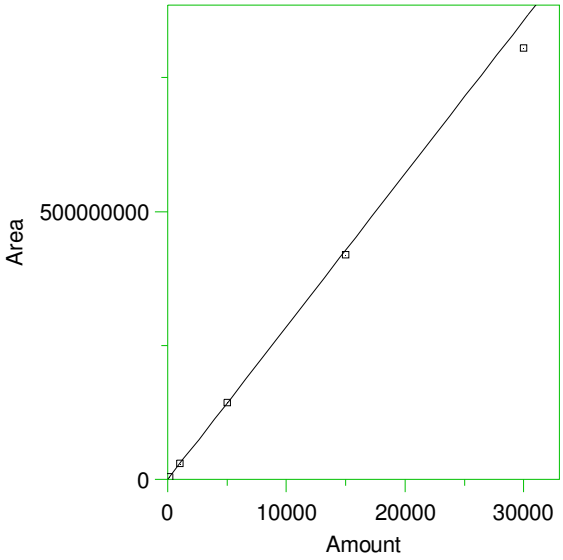
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.54 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

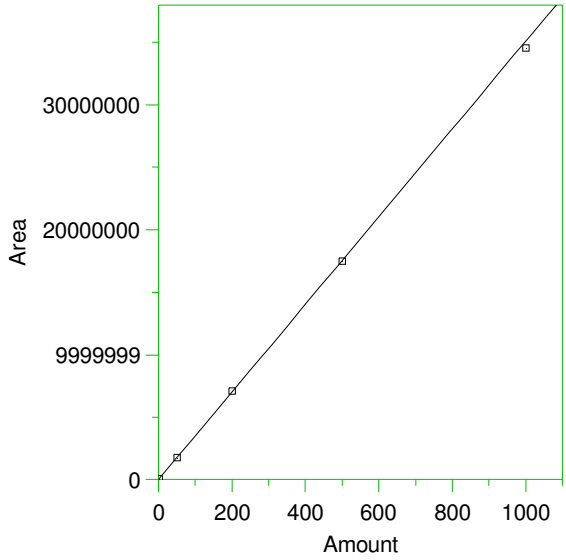
Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9940317 |
| Average error: | 3.209% |
| Average CF: | 28542.41 |
| RSD: | 4.497% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 3/30/2021 11:50:57 AM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 3/30/2021 11:51:41 AM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 3/30/2021 11:52:00 AM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 3/30/2021 11:52:55 AM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 3/30/2021 11:52:32 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.14 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

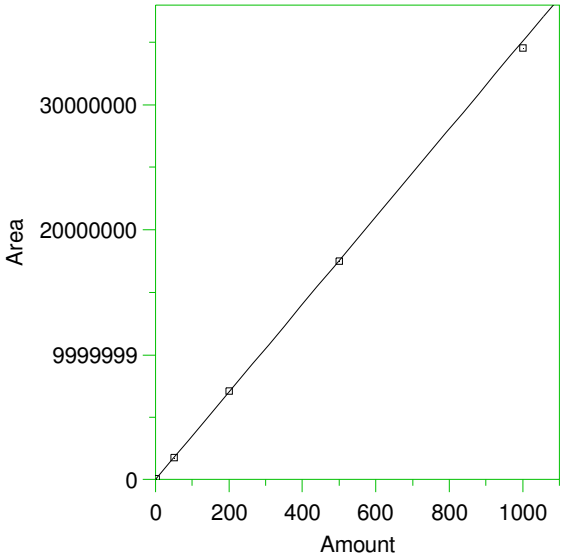
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.95 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

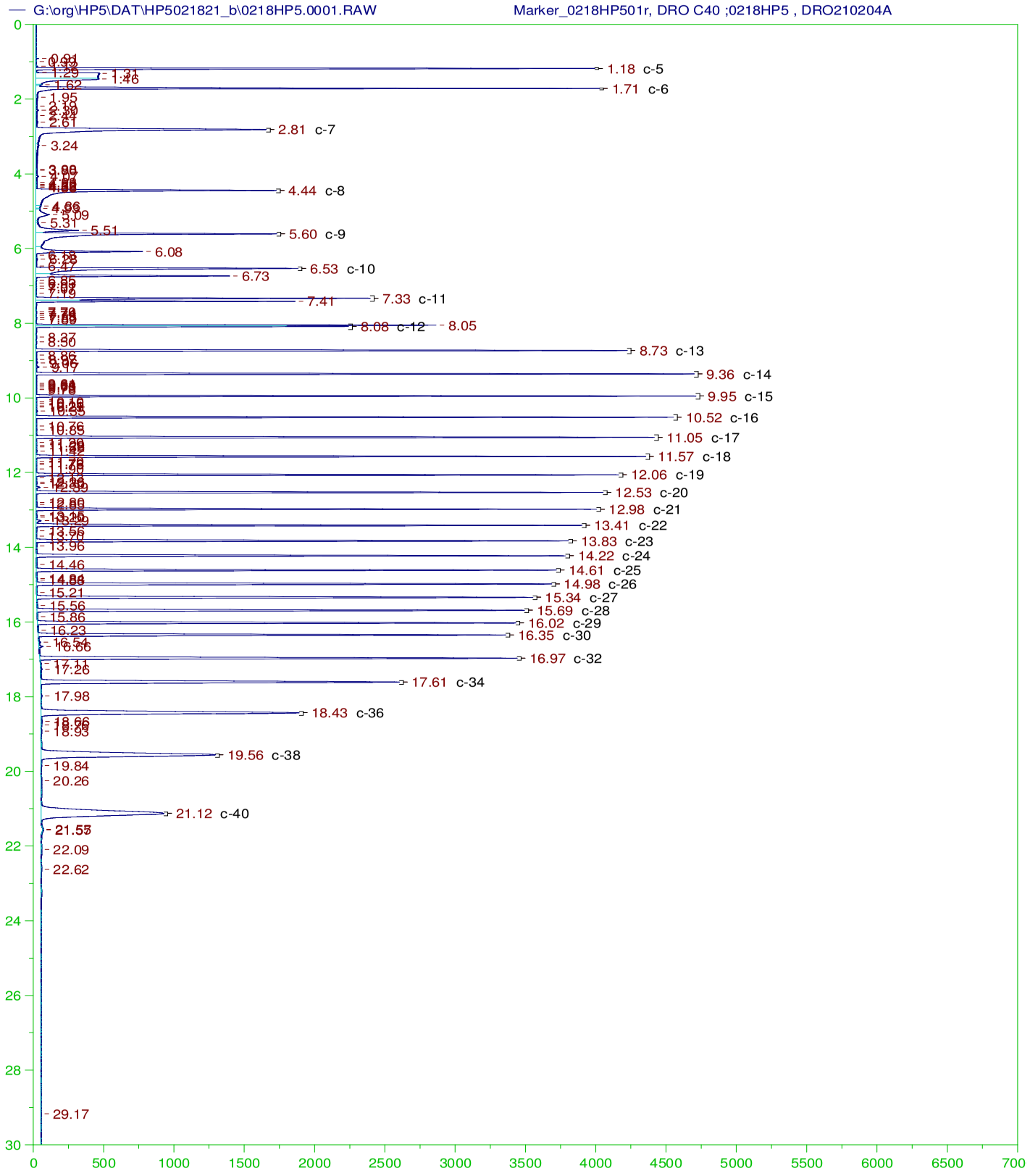
Single peak quantification by area

Y = 35071.26 X + 0

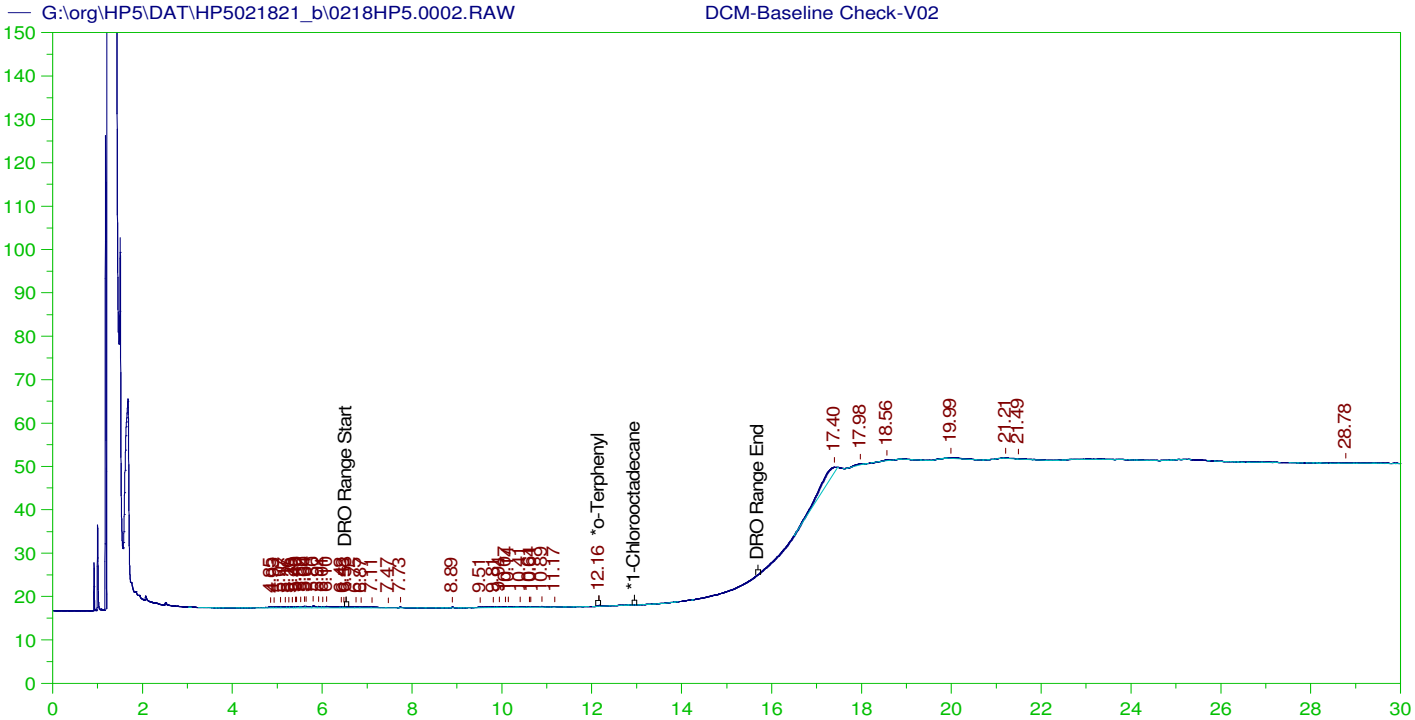
Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




G:\org\HP5\dat\HP5021821_b\Review\001_Marker_0218HP501r_CSC210212.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

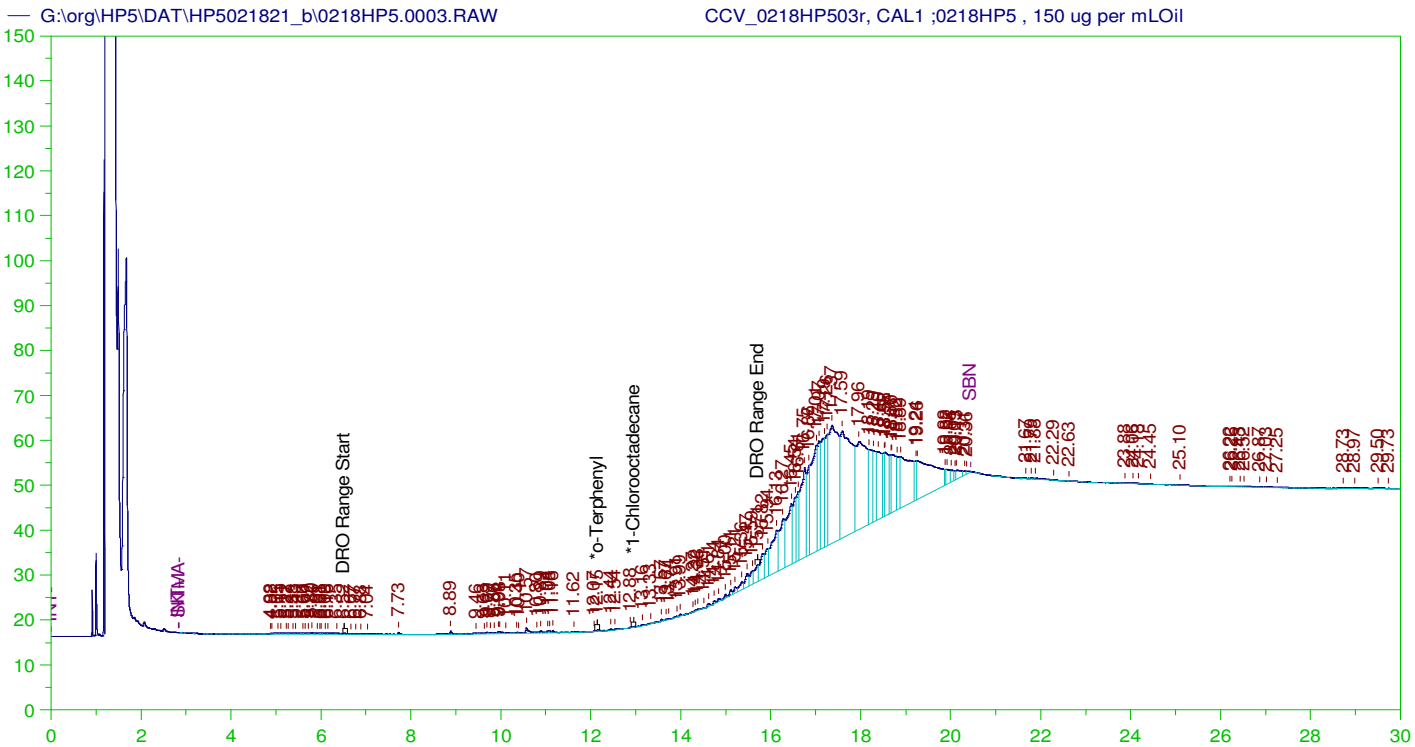
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
Date & Time Acquired: 2/18/2021 11:21:40 AM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.158 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 29.927 | 200. | . | . | - |

DRO Area:29553.31 DRO Amount: 1.003258
TEH Area:144057.3 TEH Amount: 4.890373

G:\org\HP5\dat\HP5021821_b\Review\002_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW
Date & Time Acquired: 2/18/2021 12:03:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021803-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . - |

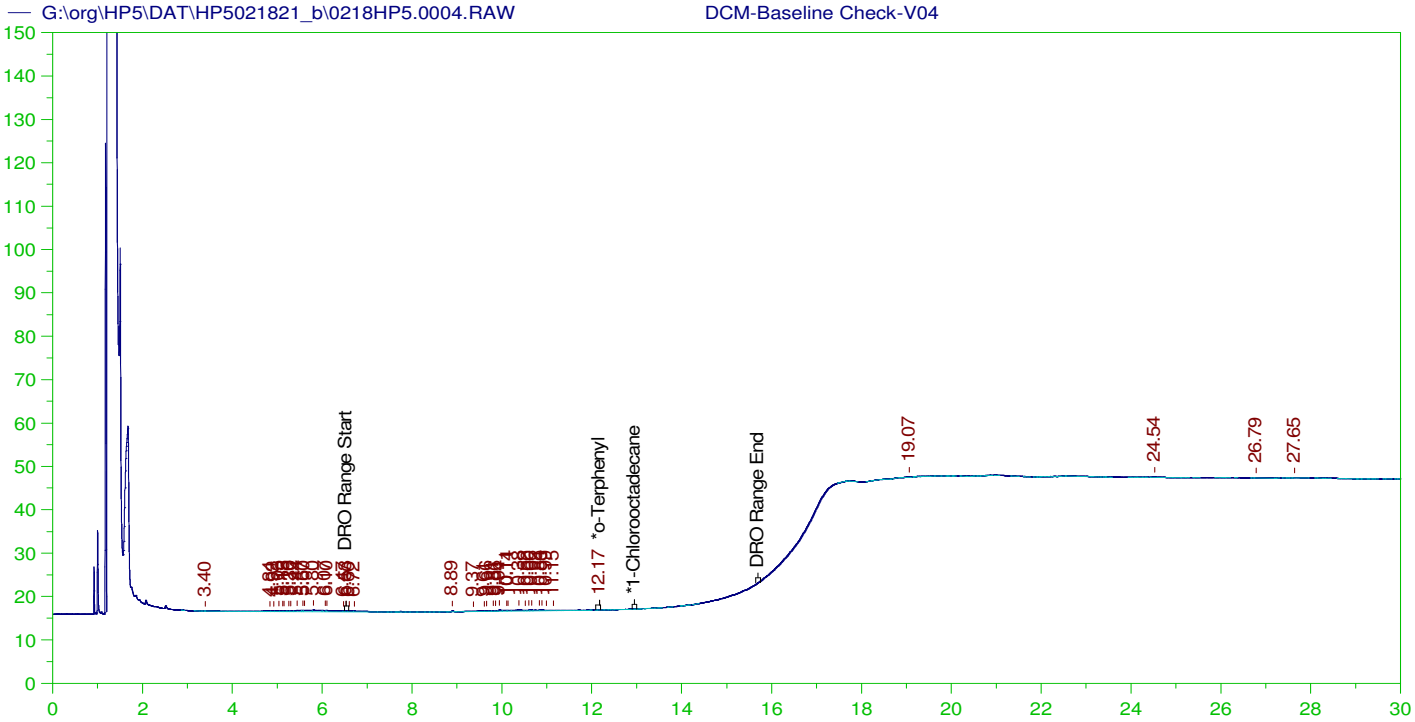
DRO Area:141843.8 DRO Amount: 4.969579
TEH Area:3766485 TEH Amount: 131.961

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 131.96 | 2.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | 85-115 |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\003_CCV_0218HP503r_DR_OIL-021803-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

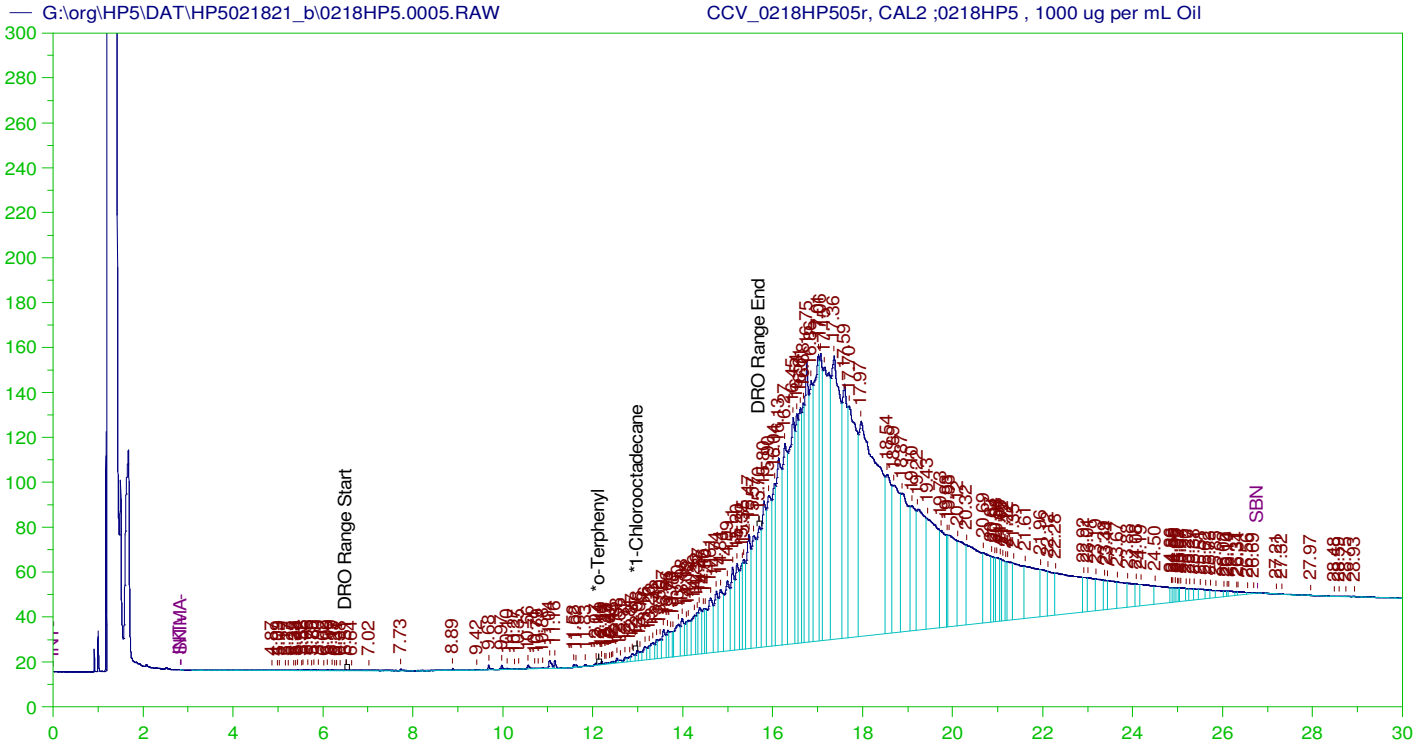
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
Date & Time Acquired: 2/18/2021 12:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.171 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.958 | 200. | . | . | - |

DRO Area:27245.38 DRO Amount: 0.9249101
TEH Area:63574.01 TEH Amount: 2.158173

G:\org\HP5\dat\HP5021821_b\Review\004_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW
Date & Time Acquired: 2/18/2021 1:27:30 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021805-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | - |

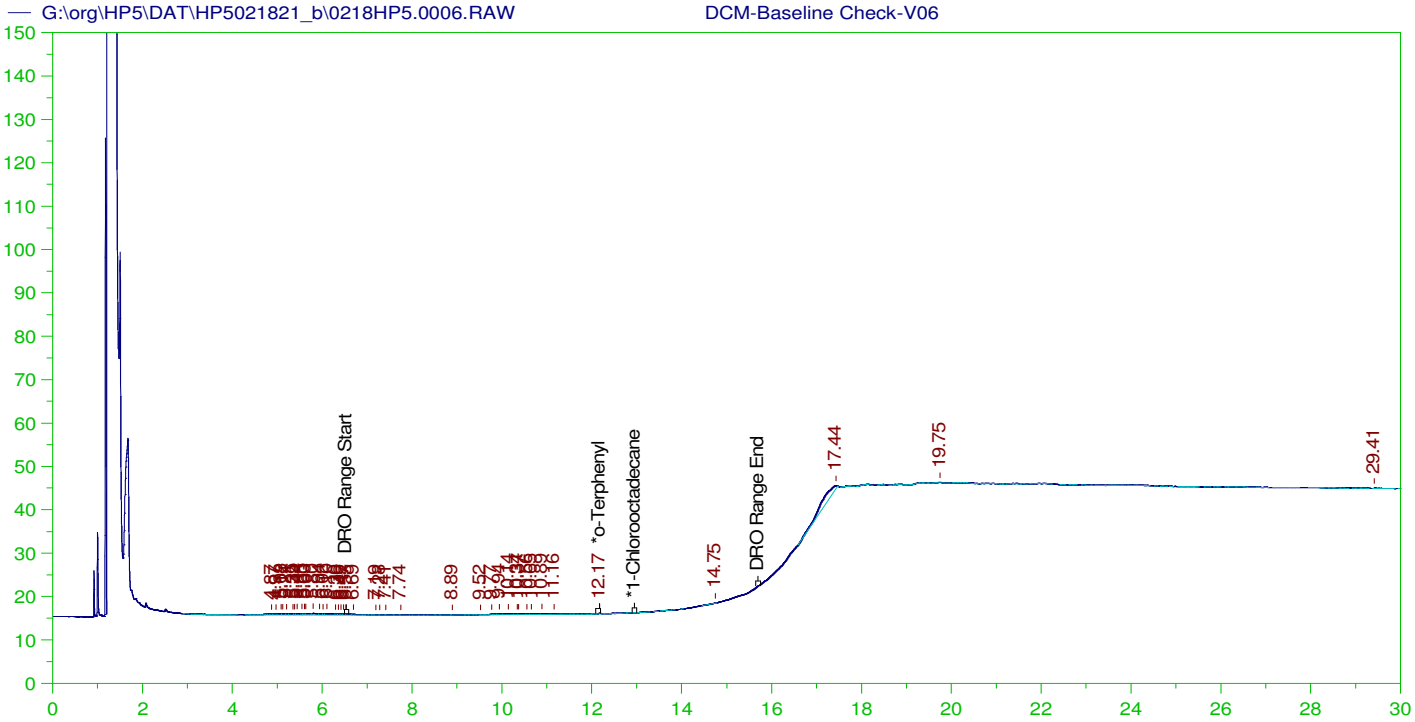
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1062.81 | 21.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | 85-115 |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\005_CCV_0218HP505r_DR_OIL-021805-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

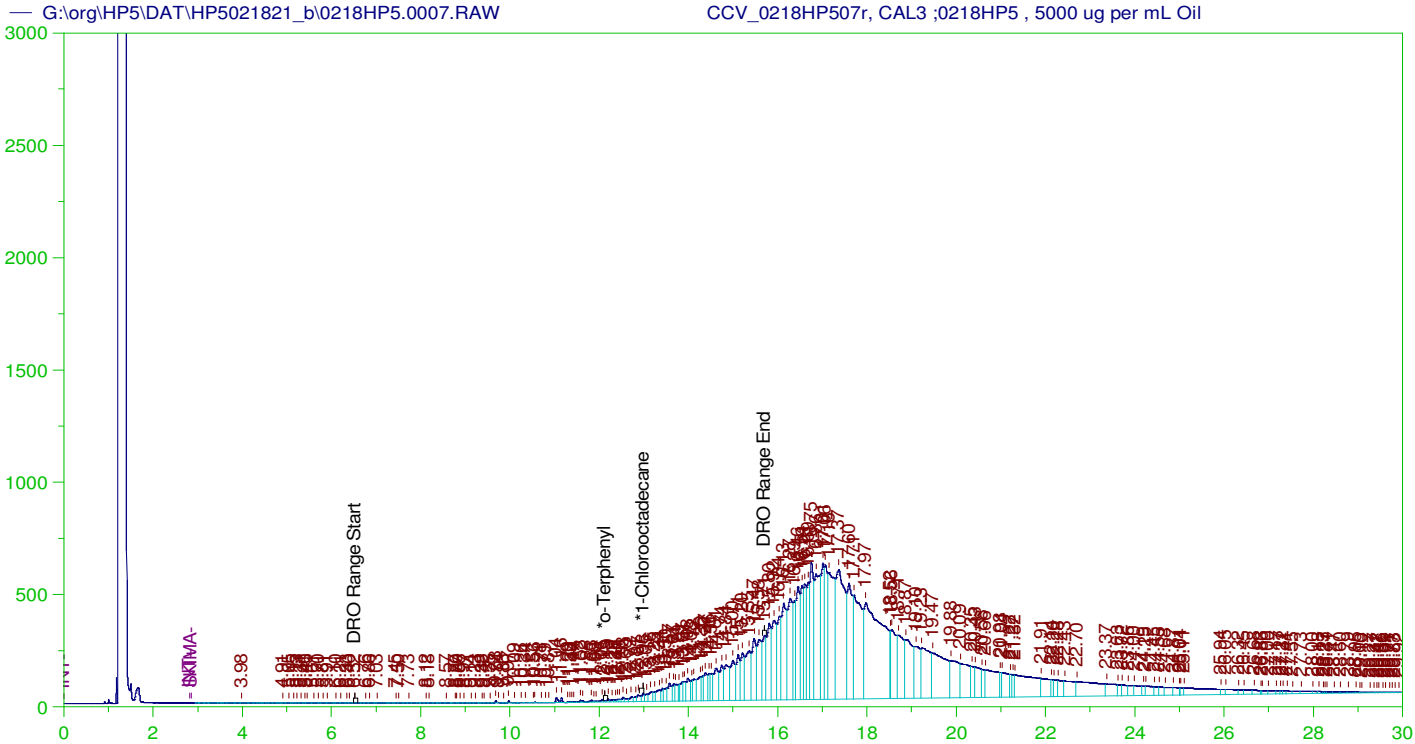
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0006.RAW
Date & Time Acquired: 2/18/2021 2:09:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:29249.25 DRO Amount: 0.9929362
TEH Area:123949.1 TEH Amount: 4.20775

G:\org\HP5\dat\HP5021821_b\Review\006_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW
Date & Time Acquired: 2/18/2021 2:51:00 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | - |

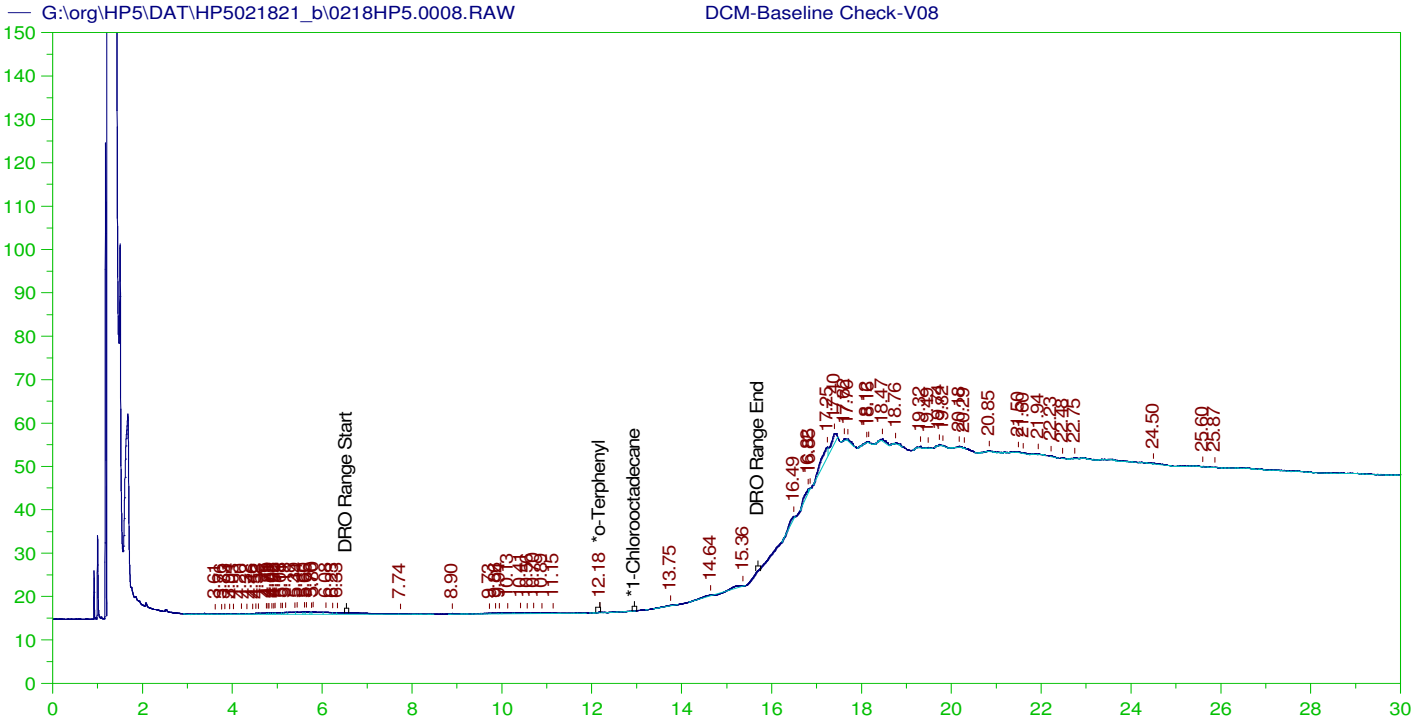
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5035.71 | 100.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\007_CCV_0218HP507r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

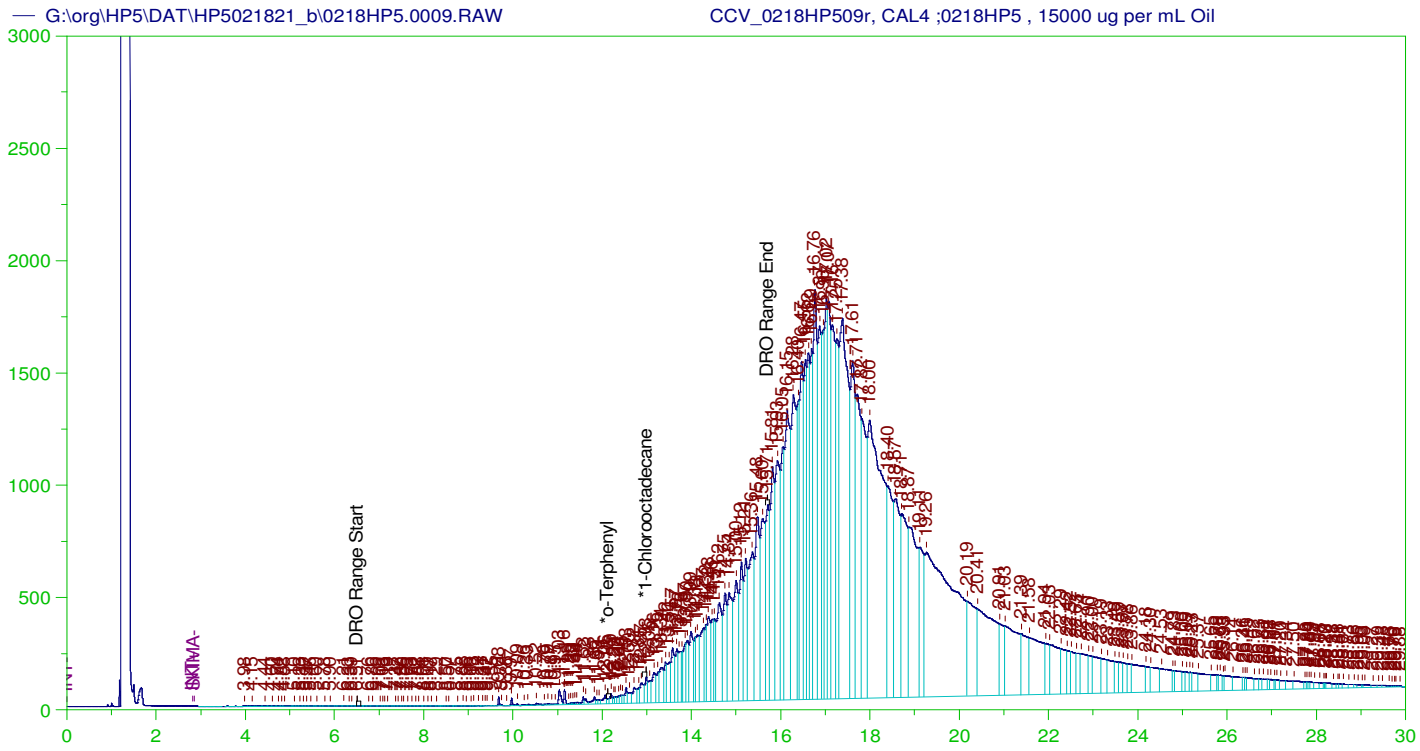
Sample Name: DCM-Baseline Check-V08
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0008.RAW
Date & Time Acquired: 2/18/2021 3:32:46 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .026 | .01 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:30717.07 DRO Amount: 1.042765
TEH Area:223672.8 TEH Amount: 7.593112

G:\org\HP5\dat\HP5021821_b\Review\008_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW
Date & Time Acquired: 2/18/2021 4:14:34 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | - |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | - |

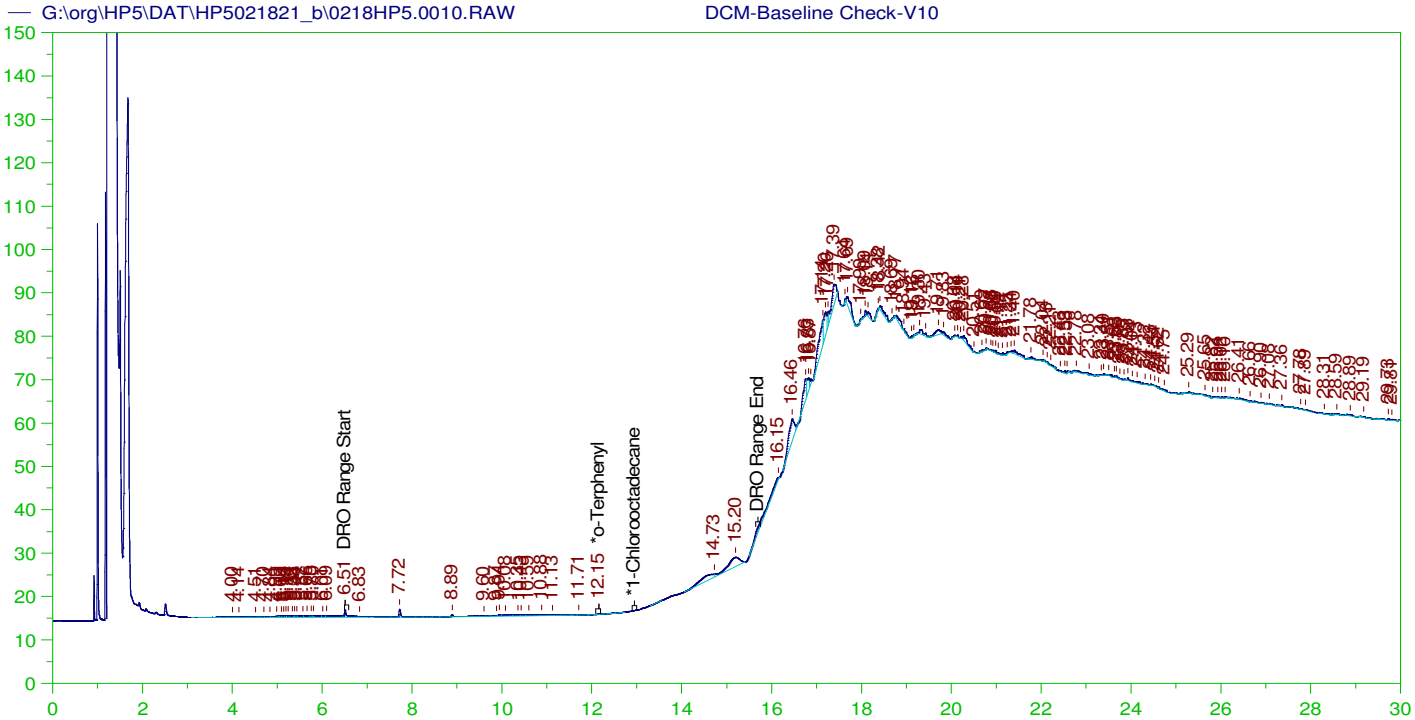
DRO Area:6.73131E+07 DRO Amount: 2358.354
TEH Area:4.193721E+08 TEH Amount: 14692.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14692.95 | 293.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | 85-115 |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\009_CCV_0218HP509r_DR_OIL-021807-AA-L0.xls



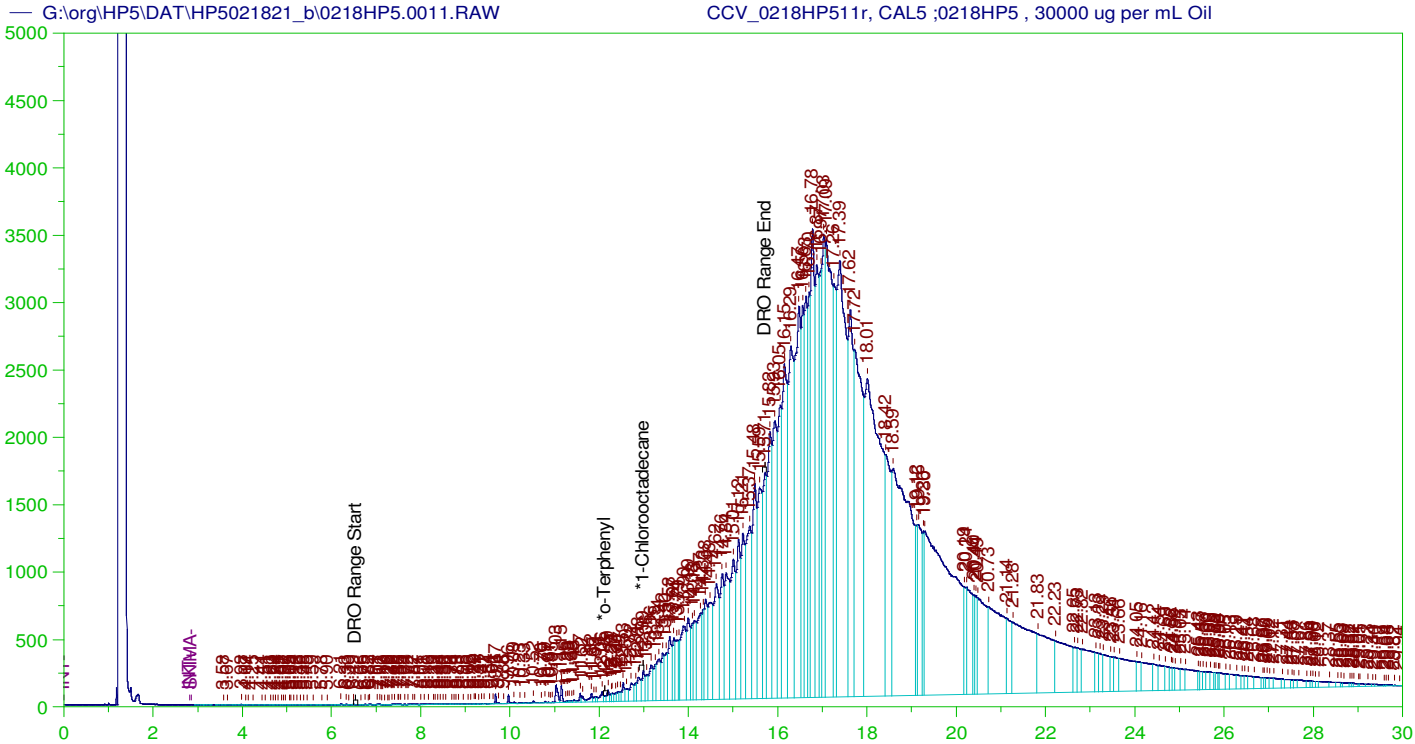

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0010.RAW
Date & Time Acquired: 2/18/2021 4:56:16 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.153 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.957 | 200. | . | . | - |

DRO Area:108629.1 DRO Amount: 3.687675
TEH Area:543425.7 TEH Amount: 18.44789




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW
Date & Time Acquired: 2/18/2021 5:38:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | - |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | - |

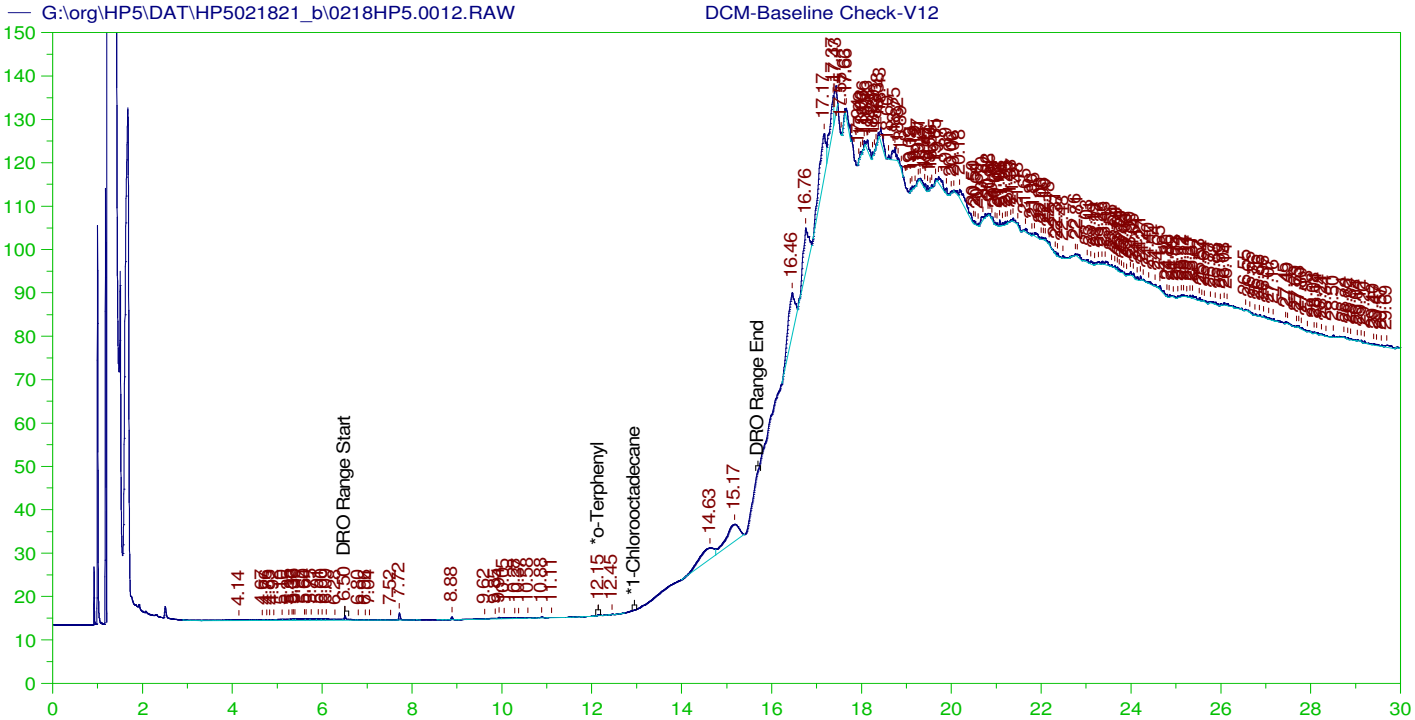
DRO Area:1.319327E+08 DRO Amount: 4622.338
TEH Area:8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 28207.69 | 564.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | 85-115 |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\011_CCV_0218HP511r_DR_OIL-021811-AA-L0.xls



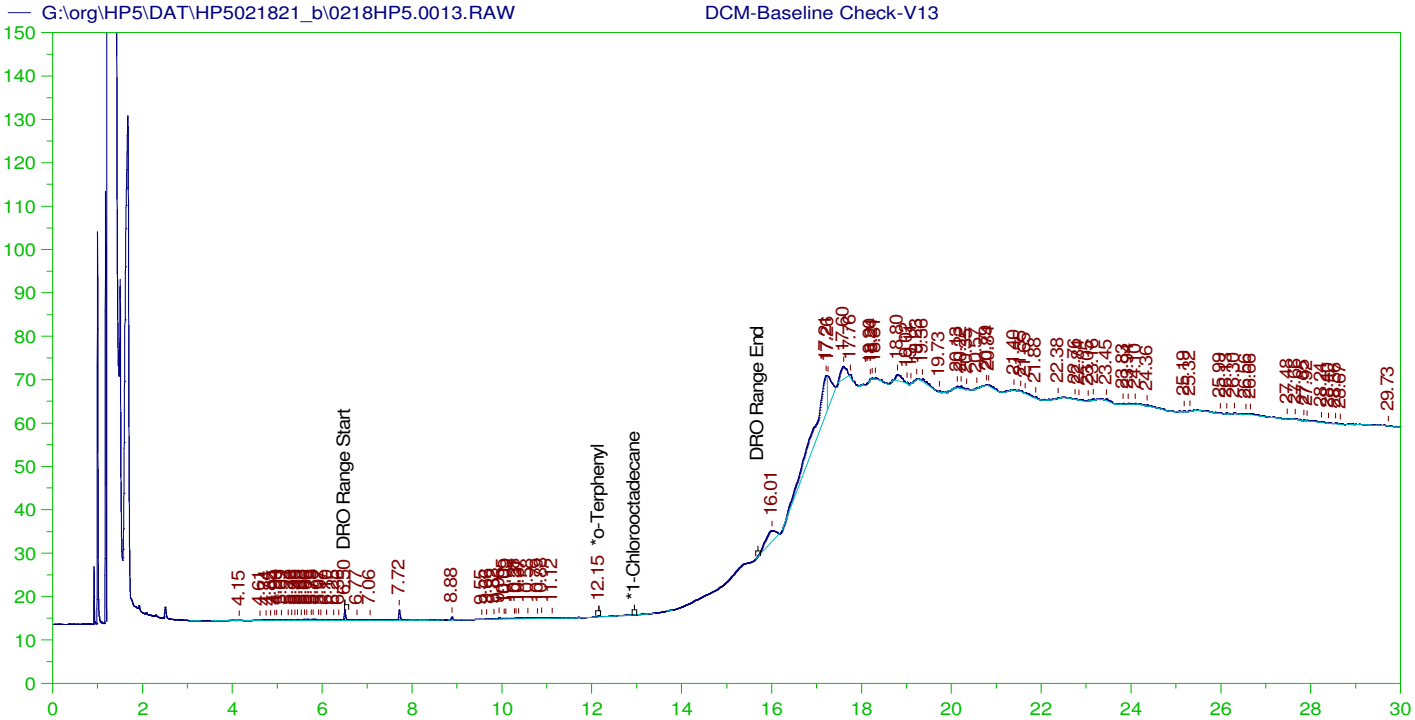

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0012.RAW
Date & Time Acquired: 2/18/2021 6:20:48 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:186033.1 DRO Amount: 6.31534
TEH Area:888262.2 TEH Amount: 30.1542




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

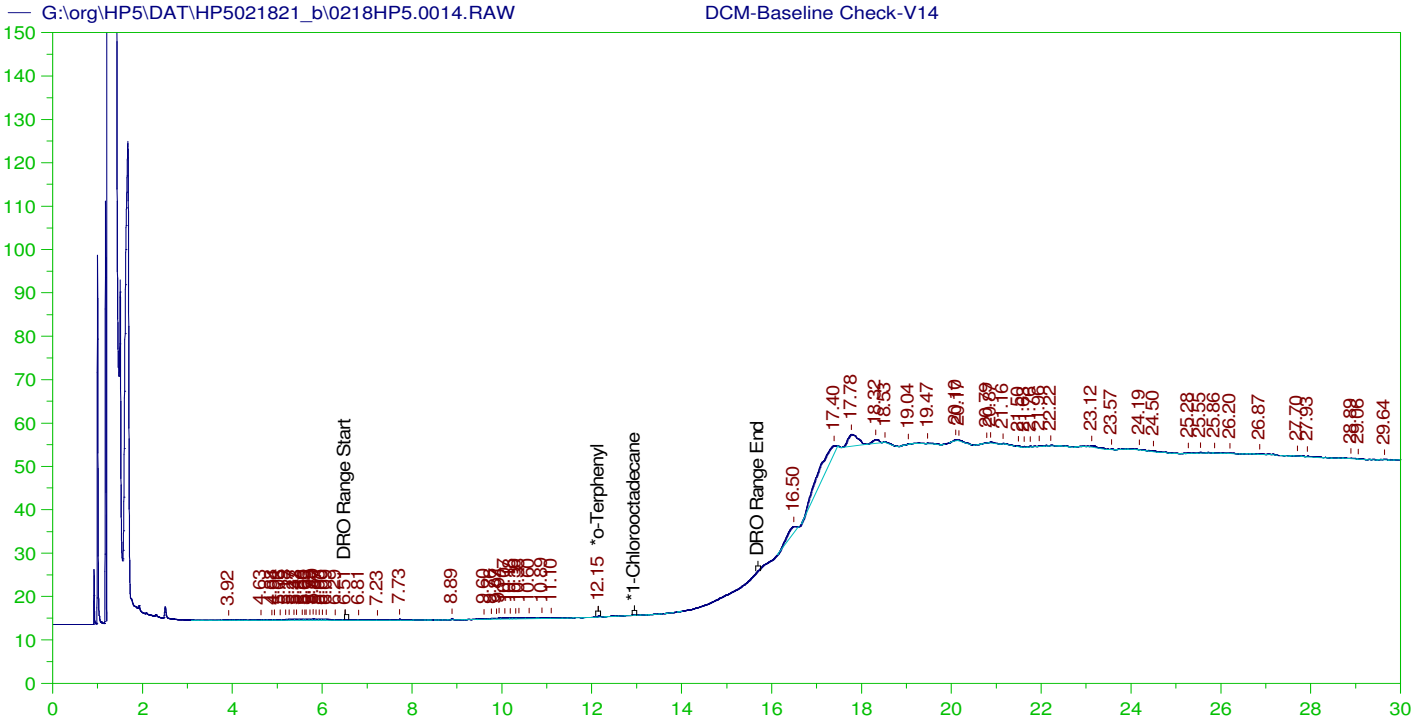
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0013.RAW
Date & Time Acquired: 2/18/2021 7:03:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.152 | 200. | .033 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:40824.55 DRO Amount: 1.385888
TEH Area:476705.3 TEH Amount: 16.18291

G:\org\HP5\dat\HP5021821_b\Review\013_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

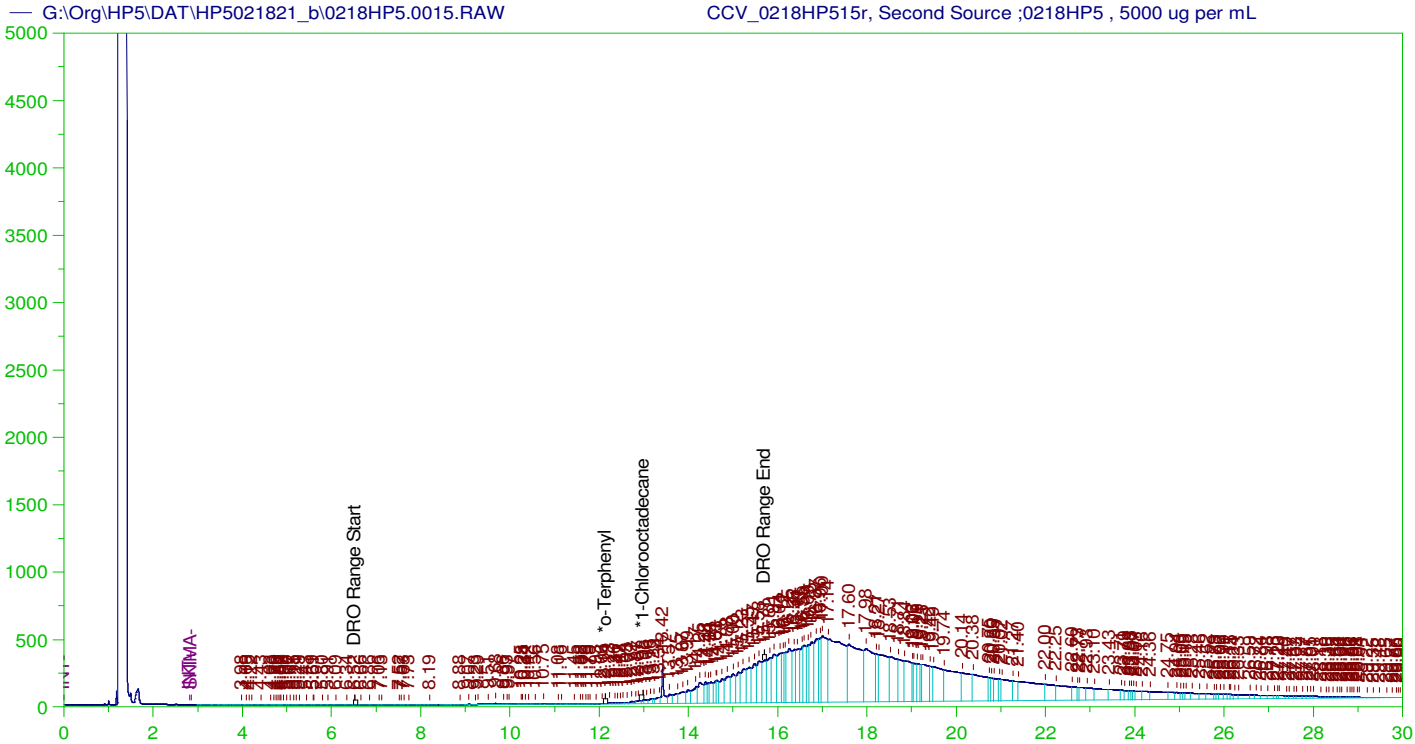
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0014.RAW
Date & Time Acquired: 2/18/2021 7:45:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.148 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.949 | 200. | . | . | - |

DRO Area:30445.24 DRO Amount: 1.033537
TEH Area:297634.4 TEH Amount: 10.10392

G:\org\HP5\dat\HP5021821_b\Review\014_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL
Raw File: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW
Date & Time Acquired: 2/18/2021 8:27:37 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 - |

DRO Area:2.558549E+07 DRO Amount: 0.8964027
TEH Area:1.562544E+08 TEH Amount: 5.474465

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5.47 | .11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | | 85-115 |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\015_CCV_0218HP515r_DR_OIL-021811-AA-L0.xls

| Write Sequence Data File | Sample Nan Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.09.20 13:12:26 -06:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/4/2021 2:22:42 PM**

Prep Batch **159988** Prep Temp: **NA °C** Batch Units: **ML** Prep End Date: **10/6/2021 1:10:00 PM**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MB-159988 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/4/2021 | 10/5/2021 |
| Start time: 2:10 PM, 10/4/2021. End time: 10/5/2021 at 8:10 AM. | | | | | | | | | | |
| LCS-159988 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/4/2021 | 10/5/2021 |
| All samples were SGT by ALN on 10/7/2021 except B21110171-001A. 0.9 mL of sample was SGT unless otherwise noted. | | | | | | | | | | |
| LCS-159988-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/4/2021 | 10/5/2021 |
| All bottles were completely used and disposed of. | | | | | | | | | | |
| B21100166-001A | Ground Water | 2 | 1010 | 0 | 0 | 1.00 | 0.00099 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100166-001AMS | Ground Water | 2 | 510 | 0 | 0 | 1.00 | 0.00196 | | 10/4/2021 | 10/5/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100166-001AMSD | Ground Water | 2 | 510 | 0 | 0 | 1.00 | 0.00196 | | 10/4/2021 | 10/5/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100166-002A | Ground Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100166-002AMS-RRO | Ground Water | 2 | 525 | 0 | 0 | 1.00 | 0.0019 | | 10/4/2021 | 10/5/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100166-002AMSD-RRO | Ground Water | 2 | 525 | 0 | 0 | 1.00 | 0.0019 | | 10/4/2021 | 10/5/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100166-003A | Ground Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100166-004A | Ground Water | 2 | 1020 | 0 | 0 | 1.00 | 0.00098 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100166-005A | GroundWater | 2 | 1030 | 0 | 0 | 1.00 | 0.000971 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. -0.7 mL of sample was spilled after bottling. 0.25ml of sample for SGT. | | | | | | | | | | |
| B21100166-006A | Ground Water | 2 | 1020 | 0 | 0 | 1.00 | 0.00098 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100166-007A | Ground Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14206 | pH-indicator Strips 0-14 HC160347 | 8/26/2026 |
| 14323 | Dichloromethane EC075 | 7/21/2023 |
| 14354 | Dichloromethane EC119 | 8/3/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | all | 100uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 9/29/21 (1 | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | ALL-sgt Samples | 5 g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100uL | 9/1/2026 |
| DRO210802A | OTP/COD SURR 20 ug/mL | MDL | 100 uL | 9/30/2024 |
| DRO210902C | 3,000 ug/mL Oil Std For MDLS-In D | MDL | 100 uL | 9/1/2026 |

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/4/2021 2:22:42 PM**

Prep Batch **159988** Prep Temp: **NA °C** Batch Units: **ML** Prep End Date: **10/6/2021 1:10:00 PM**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| B21100166-008A | Ground Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100171-001A | Aqueous | 2 | 1060 | 0 | 0 | 1.00 | 0.000943 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. SGT was not carried out on this sample. | | | | | | | | | | |
| MDL1-159988-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/5/2021 | 10/6/2021 |
| Lines 17-19 Start time: 11:26 AM, 10/5/2021. End time: 10/6/2021 at 6:20 AM. | | | | | | | | | | |
| MDL2-159988-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/5/2021 | 10/6/2021 |
| MDL3-159988-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/5/2021 | 10/6/2021 |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14206 | pH-indicator Strips 0-14 HC160347 | 8/26/2026 |
| 14323 | Dichloromethane EC075 | 7/21/2023 |
| 14354 | Dichloromethane EC119 | 8/3/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | all | 100uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 9/29/21 (1 | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | ALL-sgt Samples | 5 g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100uL | 9/1/2026 |
| DRO210802A | OTP/COD SURR 20 ug/mL | MDL | 100 uL | 9/30/2024 |
| DRO210902C | 3,000 ug/mL Oil Std For MDLS-In D | MDL | 100 uL | 9/1/2026 |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*08-Oct-21*

**Run ID** GCFID-HP5-B_211004B

**Run Start Date:** 10/4/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748551 | MARKER_1004 | HC-8015-DRO- | SAMP | | 10/5/2021 8:19:3 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.21501 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.019629 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2077505 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.21501 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748552 | CCV_1004HP54 | HC-8015-DRO- | CCV | | 10/5/2021 9:07:0 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.799137 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 96% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2301445 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 115% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748553 | CCV_1004HP54 | HC-8015-DRO- | CCV | | 10/5/2021 9:58:4 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.898983 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.44391 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 110% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1959646 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748554 | LCS-159988 | HC-8015-DRO- | LCS-DOD | | 10/6/2021 4:00:4 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.50602 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 103% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.65463 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 111% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2170287 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 109% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748555 | MB-159988 | HC-8015-DRO- | MBLK | | 10/6/2021 4:52:2 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0749 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2110534 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 106% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748557 | B21100166-001 | HC-8015-DRO- | SAMP | | 10/6/2021 6:32:3 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038511 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.087021 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.074151 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.2020037 | | 0.198 | 0 | 0 | 0.0004247 | 0.002 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748558 | MARKER_1004 | HC-8015-DRO- | SAMP | | 10/6/2021 8:03:5 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748558 | MARKER_1004 | HC-8015-DRO- | SAMP | | 10/6/2021 8:03:5 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.260376 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.154036 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2107975 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.260376 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748559 | CCV_1004HP56 | HC-8015-DRO- | CCV | | 10/6/2021 8:49:3 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.527914 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 91% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2171167 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 109% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748560 | CCV_1004HP56 | HC-8015-DRO- | CCV | | 10/6/2021 9:34:3 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.698576 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 111% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 17.56553 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 117% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2091472 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748561 | B21100166-005 | HC-8015-DRO- | SAMP | | 10/6/2021 11:07: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0377719 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.16502512 | | 0 | 0 | 0 | 0.0853509 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.289911 | | 0 | 0 | 0 | 0.0727279 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.1751528 | | 0.1942 | 0 | 0 | 0.0004166 | 0.002 | 0 | 90% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748562 | B21100166-002 | HC-8015-DRO- | SAMP | | 10/6/2021 11:54: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748562 | B21100166-002 | HC-8015-DRO- | SAMP | | 10/6/2021 11:54: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1777408 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 92% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748563 | B21100166-003 | HC-8015-DRO- | SAMP | | 10/6/2021 12:42: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0.2121466 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.163523 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 85% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748564 | B21100166-004 | HC-8015-DRO- | SAMP | | 10/6/2021 1:29:5 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.37585098 | | 0 | 0 | 0 | 0.086142 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0.566905 | | 0 | 0 | 0 | 0.073402 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1185309 | | 0.196 | 0 | 0 | 0.0004204 | 0.002 | 0 | 60% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748565 | B21100166-006 | HC-8015-DRO- | SAMP | | 10/6/2021 3:57:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.086142 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0.2215073 | | 0 | 0 | 0 | 0.073402 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.2118785 | | 0.196 | 0 | 0 | 0.0004204 | 0.002 | 0 | 108% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748566 | B21100166-007 | HC-8015-DRO- | SAMP | | 10/6/2021 4:45:5 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.32147115 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0.4977794 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1790147 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 93% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748567 | MARKER_1004 | HC-8015-DRO- | SAMP | | 10/6/2021 6:22:5 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.142578 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.025165 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2035078 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.142578 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748568 | CCV_1004HP57 | HC-8015-DRO- | CCV | | 10/6/2021 7:10:4 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.567784 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 91% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2137363 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748569 | CCV_1004HP57 | HC-8015-DRO- | CCV | | 10/6/2021 7:58:2 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.2786 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 102% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.80149 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 105% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1894572 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 95% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748570 | B21100166-008 | HC-8015-DRO- | SAMP | | 10/6/2021 10:30: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748570 | B21100166-008 | HC-8015-DRO- | SAMP | | 10/6/2021 10:30: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.4168086 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.24378194 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.7322657 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1975949 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748571 | B21100166-001 | HC-8015-DRO- | MS-DOD | | 10/6/2021 11:22: | 1 | 159988 | 10/4/2021 2: | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 26.53676 | | 29.4 | 0 | 0 | 0.076244 | 0.588 | 0 | 90% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 28.26081 | | 29.4 | 0 | 0 | 0.146804 | 0.588 | 50 | 96% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.382976 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748572 | B21100166-001 | HC-8015-DRO- | MSD-DOD | | 10/7/2021 12:12: | 1 | 159988 | 10/4/2021 2: | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 26.16373 | | 29.4 | 0 | 26.53676 | 0.076244 | 0.588 | 0 | 89% | 36 | 132 | 1% | |
| Total Extractable Hydrocarbons | A | mg/L | | 28.43137 | | 29.4 | 0 | 28.26081 | 0.146804 | 0.588 | 50 | 97% | 60 | 132 | 1% | |
| o-Terphenyl | S | mg/L | | 0.3782645 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 96% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748573 | B21100166-002 | HC-8015-DRO- | MS-DOD | | 10/7/2021 1:04:5 | 1 | 159988 | 10/4/2021 2: | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.422656 | | 9.5 | 0 | 0 | 0.16701 | 0.57 | 0 | 99% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.4027373 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 106% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748574 | B21100166-002 | HC-8015-DRO- | MSD-DOD | | 10/7/2021 1:56:5 | 1 | 159988 | 10/4/2021 2: | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.194623 | | 9.5 | 0 | 9.422656 | 0.16701 | 0.57 | 0 | 97% | 41 | 113 | 2% | |
| o-Terphenyl | S | mg/L | | 0.3627076 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 95% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748575 | LCS-159988-RR | HC-8015-DRO- | LCS-DOD | | 10/7/2021 3:38:4 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.714775 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 94% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1967819 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748576 | MARKER_1004 | HC-8015-DRO- | SAMP | | 10/7/2021 5:23:4 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.154419 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.030235 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2041031 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.154419 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748577 | CCV_1004HP58 | HC-8015-DRO- | CCV | | 10/7/2021 6:15:3 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.64183 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 93% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2177886 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 109% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748578 | CCV_1004HP58 | HC-8015-DRO- | CCV | | 10/7/2021 7:02:4 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.80833 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 105% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.35193 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1949001 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 97% | 80 | 120 | 0% | |

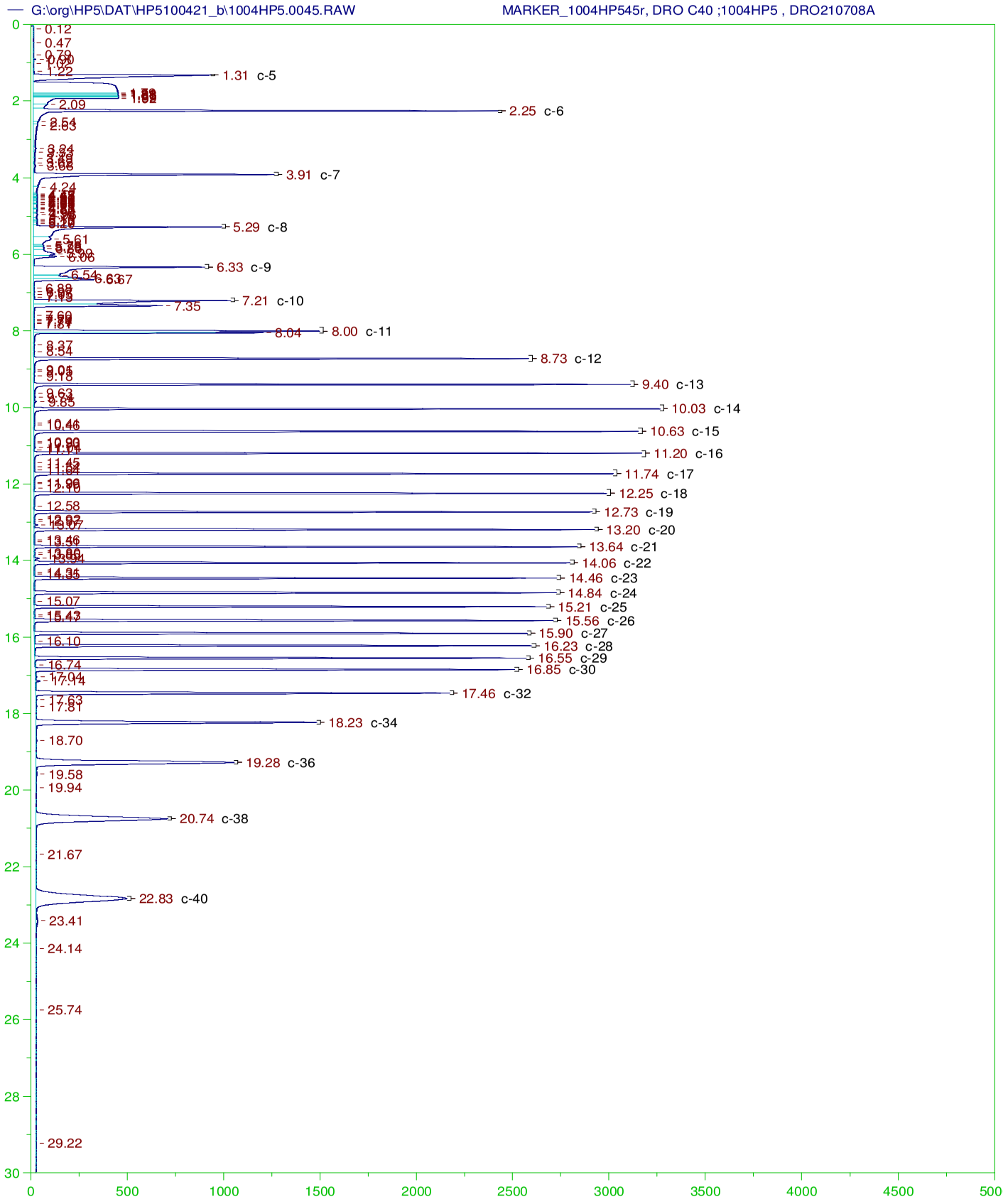
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748598 | B21100171-001 | HC-8015-DRO- | SAMP | | 10/6/2021 5:44:3 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0366827 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0828897 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0706307 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748598 | B21100171-001 | HC-8015-DRO- | SAMP | | 10/6/2021 5:44:3 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.1862512 | | 0.1886 | 0 | 0 | 0.0004045 | 0.002 | 0 | 99% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1862512 | | 0.1886 | 0 | 0 | 0.0004045 | 0.001886 | 0 | 99% | 56 | 125 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5100421_b\1004HP5.45r | MARKER_1004HP545r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.46r | MARKER_1004HP546r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.47r | CCV_1004HP547r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.48r | CCV_1004HP548r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.54r | DCM-Baseline Check-V54 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.55r | LCS-159988 ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10045-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.56r | MB-159988 ;1004HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.57r | B21100171-001A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1060 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.58r | B21100166-001A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1010 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.59r | MARKER_1004HP559r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.60r | MARKER_1004HP560r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.61r | CCV_1004HP561r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.62r | CCV_1004HP562r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.64r | B21100166-005A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.65r | B21100166-002A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.66r | B21100166-003A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-100466-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-100466-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.67r | B21100166-004A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.68r | B21100166-006A ;1004HP5 , $HC-8015-DRO-W, Need another RR possible carry over | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.69r | DCM-Baseline Check-V69 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.70r | B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR | G:\Org\HP5\Methods\D3_8015-100470-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-100470-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.71r | B21100166-007A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.72r | MARKER_1004HP572r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.73r | MARKER_1004HP573r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.74r | CCV_1004HP574r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.75r | CCV_1004HP575r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.76r | DCM-Baseline Check-V76 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.78r | B21100166-008A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.79r | B21100166-001AMS ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 510 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.80r | B21100166-001AMSD ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 510 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.81r | B21100166-002AMS-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.82r | B21100166-002AMSD-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.83r | DCM-Baseline Check-V83 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.84r | LCS-159988-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.85r | MARKER_1004HP5985r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.86r | MARKER_1004HP586r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.87r | CCV_1004HP587r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.88r | CCV_1004HP588r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\org\HP5\DAT\HP5100421_b\1004HP5.0045.RAW
MARKER_1004HP545r, DRO C40 ;1004HP5 , DRO210708A
1.31 c-5
2.25 c-6
3.91 c-7
5.29 c-8
6.33 c-9
7.21 c-10
8.00 c-11
8.73 c-12
9.40 c-13
10.03 c-14
10.63 c-15
11.20 c-16
11.74 c-17
12.25 c-18
12.73 c-19
13.20 c-20
13.64 c-21
14.06 c-22
14.46 c-23
14.84 c-24
15.21 c-25
15.56 c-26
15.90 c-27
16.23 c-28
16.55 c-29
16.85 c-30
17.46 c-32
18.23 c-34
19.28 c-36
20.74 c-38
22.83 c-40
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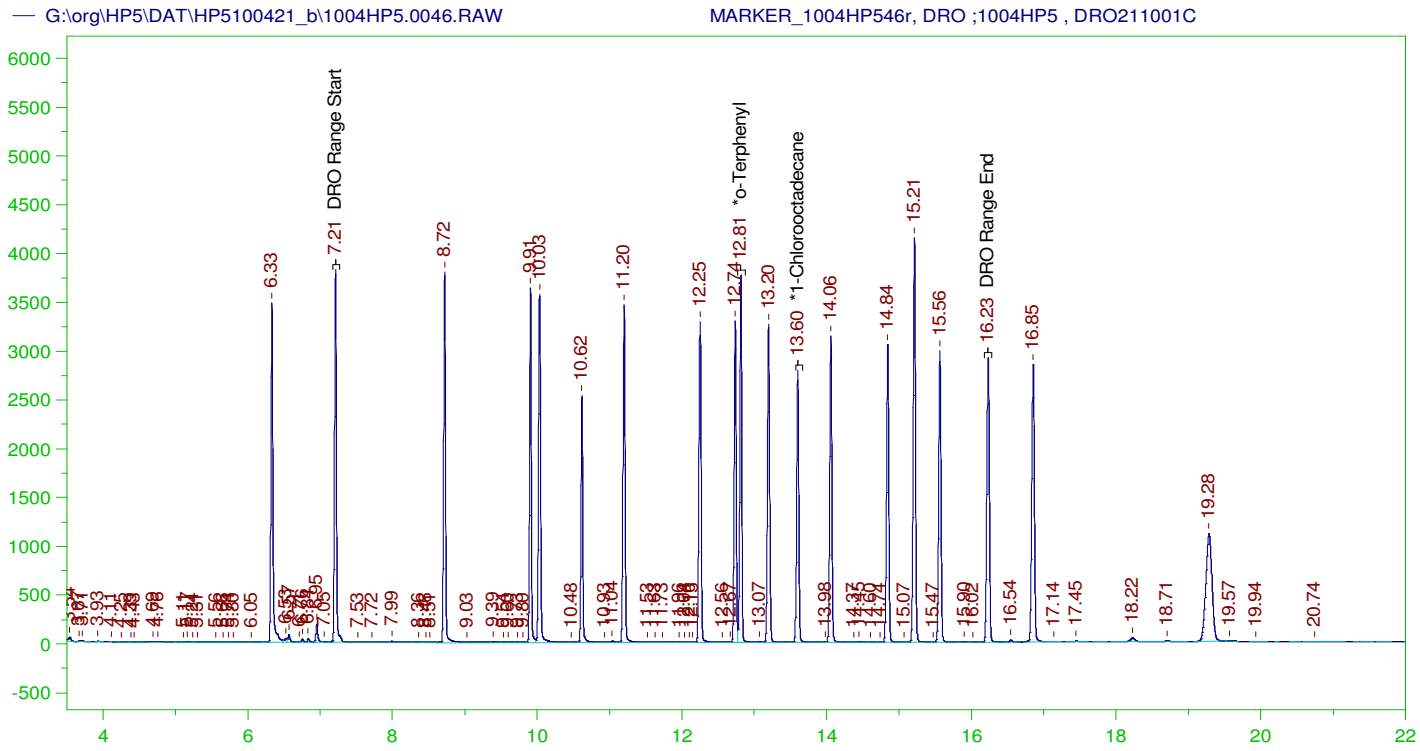


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1004HP546r, DRO ;1004HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0046.RAW
Date & Time Acquired: 10/5/2021 8:19:33 PM
Method File: G:\Org\HP5\Methods\DC_8015-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.814 | .2 | .208 | 103.88 | - |
| *1-Chlorooctadecane | 13.6 | .2 | .168 | 83.96 | - |

DRO Area:9.470563E+07 DRO Amount: 3.21501
TEH Area:1.184075E+08 TEH Amount: 4.019629

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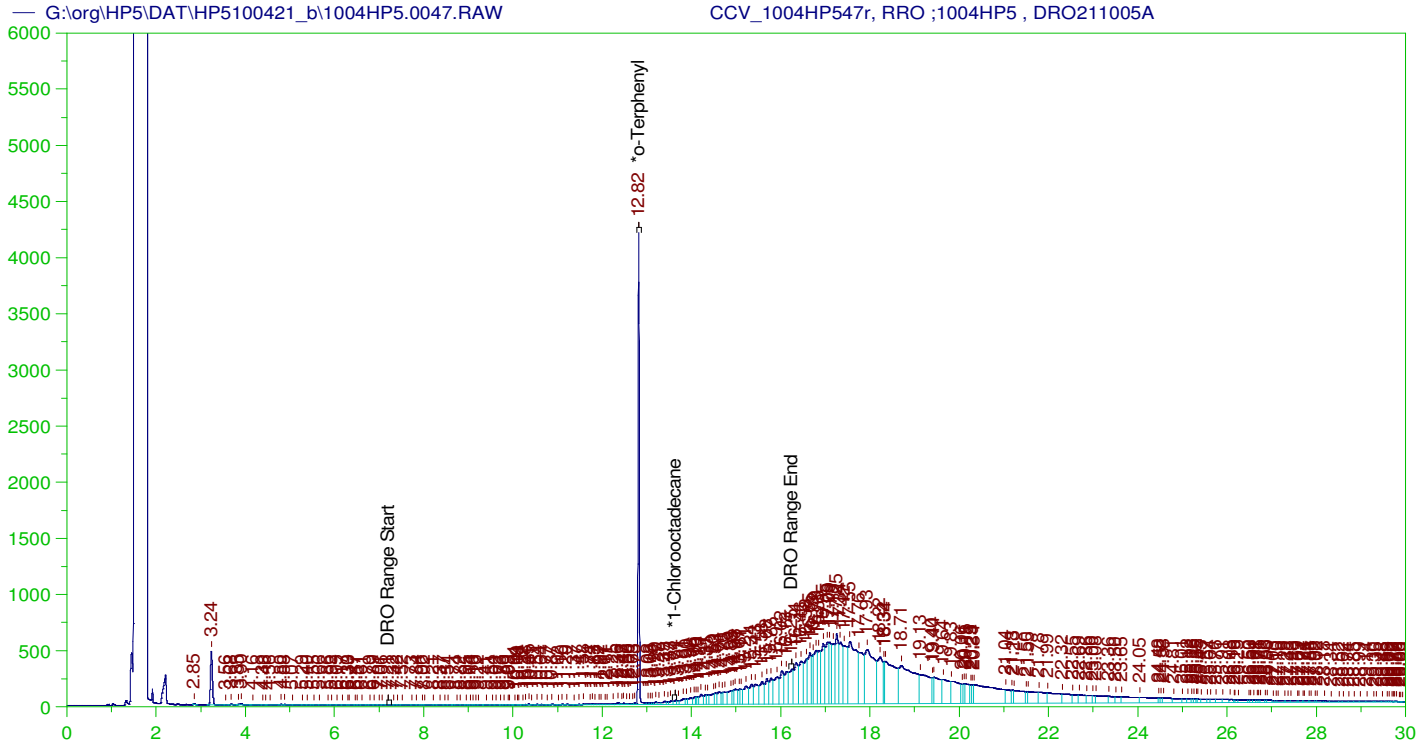


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP547r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0047.RAW
Date & Time Acquired: 10/5/2021 9:07:07 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AHb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.815 | 200. | 234.746 | 117.37 | - |
| *1-Chlorooctadecane | 13.637 | 200. | 4.641 | 2.32 | - |

DRO Area:2.332686E+07 DRO Amount: 817.2701
TEH (Oil Range)Area:1.369789E+08 TEH (Oil Range)Amount: 4799.137

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0047.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4799.14 | 95.98 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.815 | 200. | 234.746 | 117.37 | 85-115 |
| *1-Chlorooctadecane | 13.637 | 200. | 4.641 | 2.32 | 85-115 |

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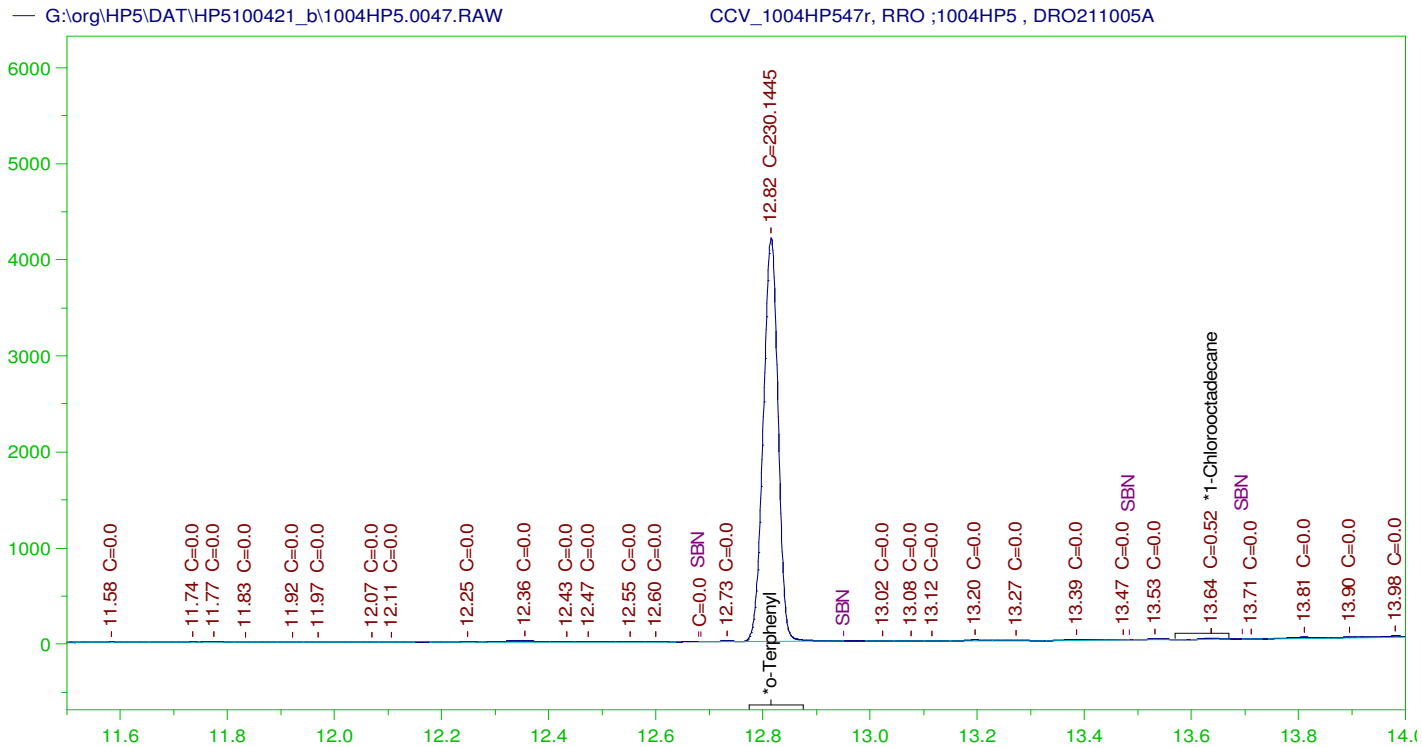
G:\org\HP5\dat\HP5100421_b\Review\Og\047_CCV_1004HP547r_DC_OIL-AHb-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP547r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0047.RAW
Date & Time Acquired: 10/5/2021 9:07:07 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.815 | 200. | 230.145 | 115.07 | - |
| *1-Chlorooctadecane | 13.637 | 200. | .52 | .26 | - |

DRO Area:1640376 DRO Amount: 57.47154
TEH Area:3419696 TEH Amount: 119.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0047.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 119.81 | 2.4 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.815 | 200. | 230.145 | 115.07 | 85-115 |
| *1-Chlorooctadecane | 13.637 | 200. | .52 | .26 | 85-115 |

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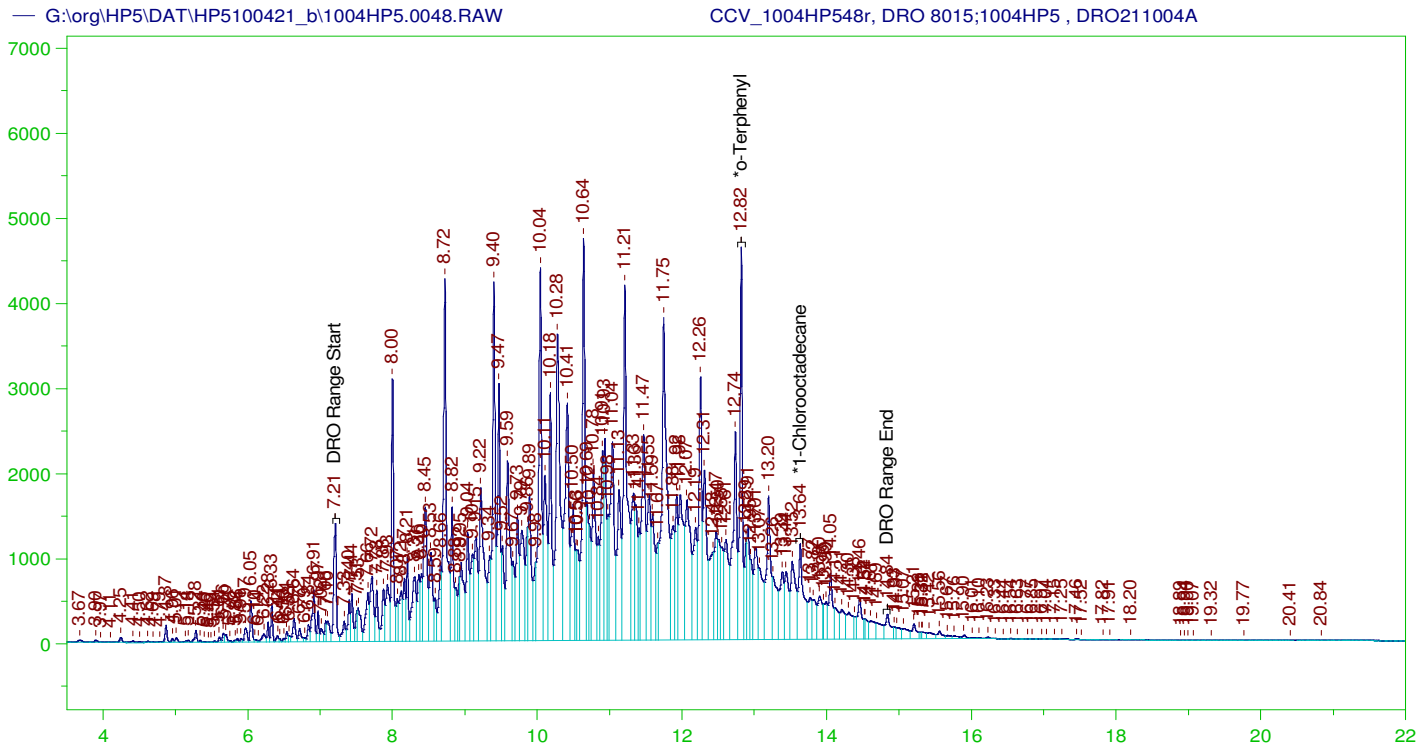


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP548r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0048.RAW
Date & Time Acquired: 10/5/2021 9:58:41 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.819 | 200. | 330.207 | 165.1 | - |
| *1-Chlorooctadecane | 13.635 | 200. | 159.853 | 79.93 | - |

DRO (C10-C24)Area:4.683372E+08 DRO (C10-C24)Amount: 15898.83
TEH Area:4.843938E+08 TEH Amount: 16443.91

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0048.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16443.91 | 109.63 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.819 | 200. | 330.207 | 165.1 | 85-115 |
| *1-Chlorooctadecane | 13.635 | 200. | 159.853 | 79.93 | 85-115 |

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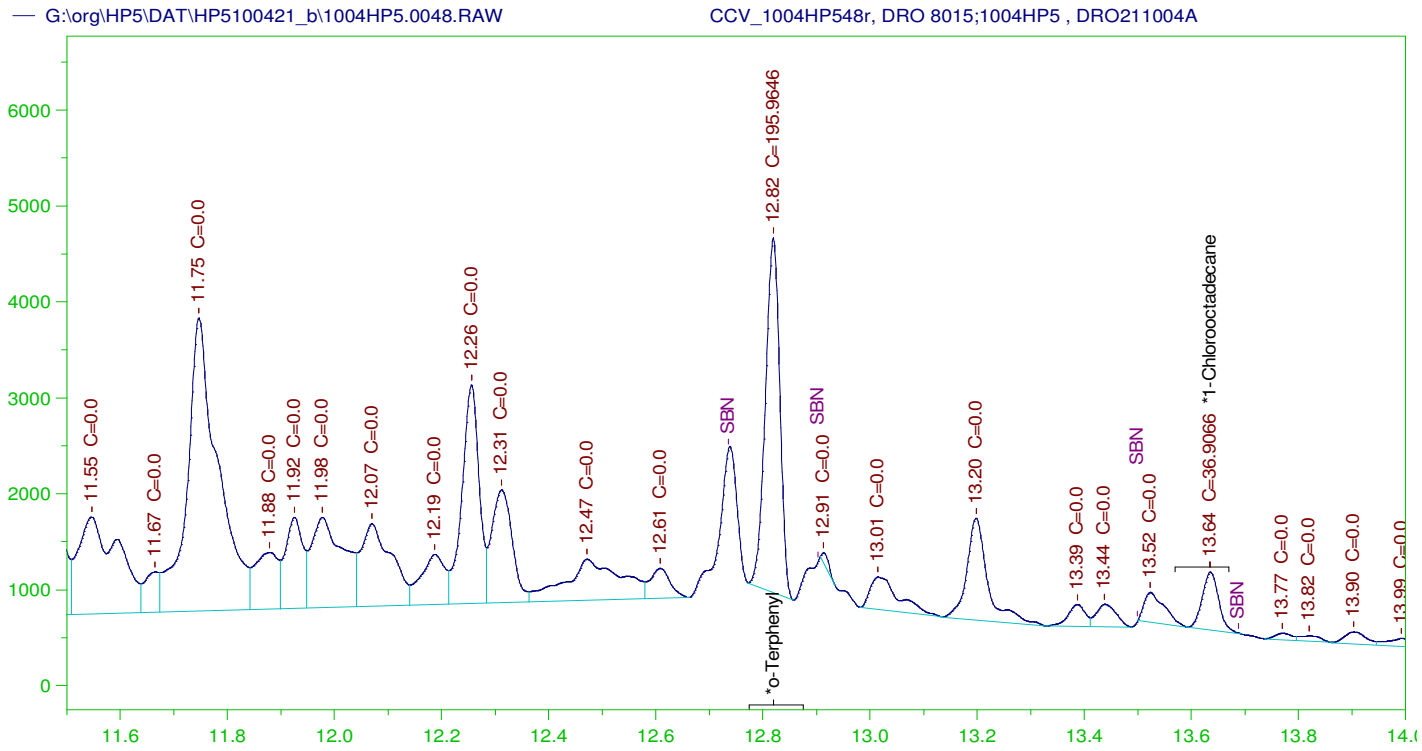


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP548r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0048.RAW
Date & Time Acquired: 10/5/2021 9:58:41 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.819 | 200. | 195.965 | 97.98 | - |
| *1-Chlorooctadecane | 13.635 | 200. | 36.907 | 18.45 | - |

DRO Area:2.59154E+08 DRO Amount: 8797.606
TEH Area:2.694279E+08 TEH Amount: 9146.38

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0048.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9146.38 | 60.98 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.819 | 200. | 195.965 | 97.98 | 85-115 |
| *1-Chlorooctadecane | 13.635 | 200. | 36.907 | 18.45 | 85-115 |

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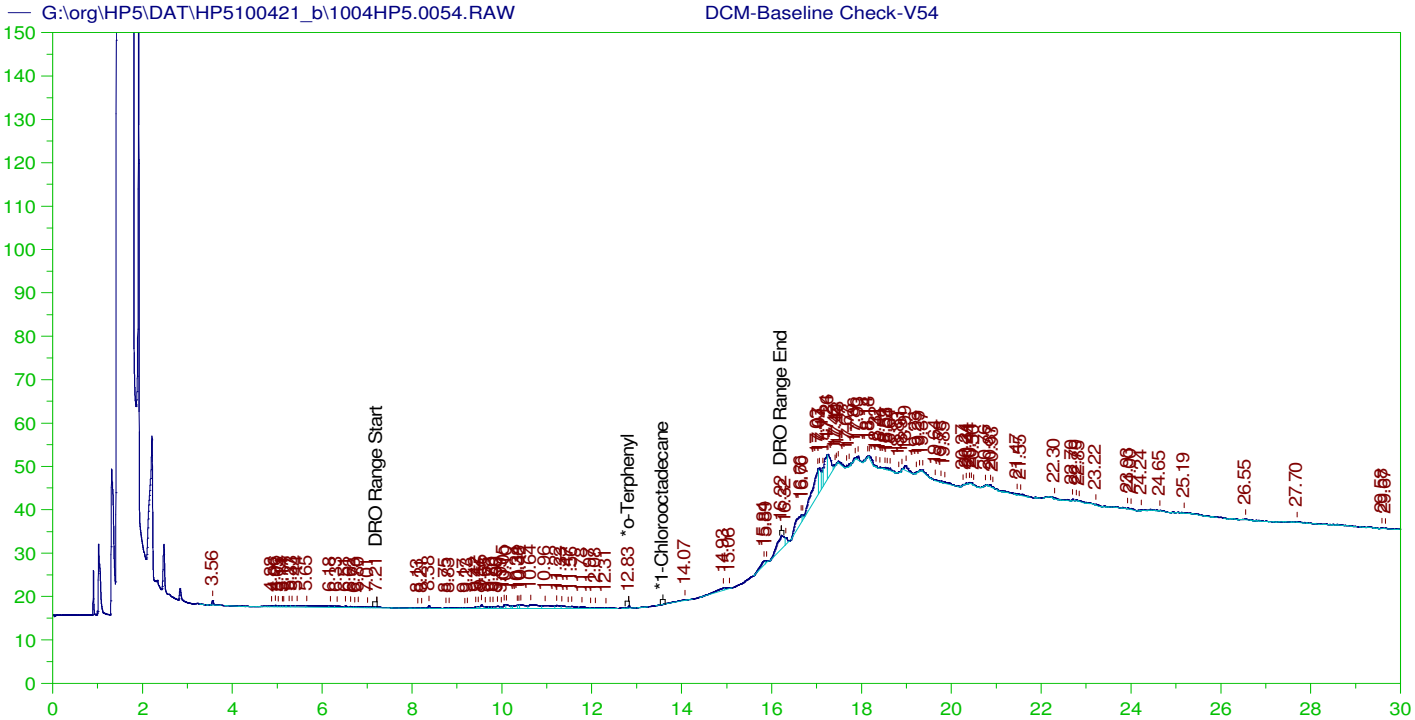


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V54
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0054.RAW
Date & Time Acquired: 10/6/2021 3:09:48 AM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.12 to 16.28

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.825 | 200. | .046 | .02 | - |
| *1-Chlorooctadecane | 29.944 | 200. | . | . | - |

DRO Area:150881.7 DRO Amount: 5.122041
TEH Area:451239.8 TEH Amount: 15.31842

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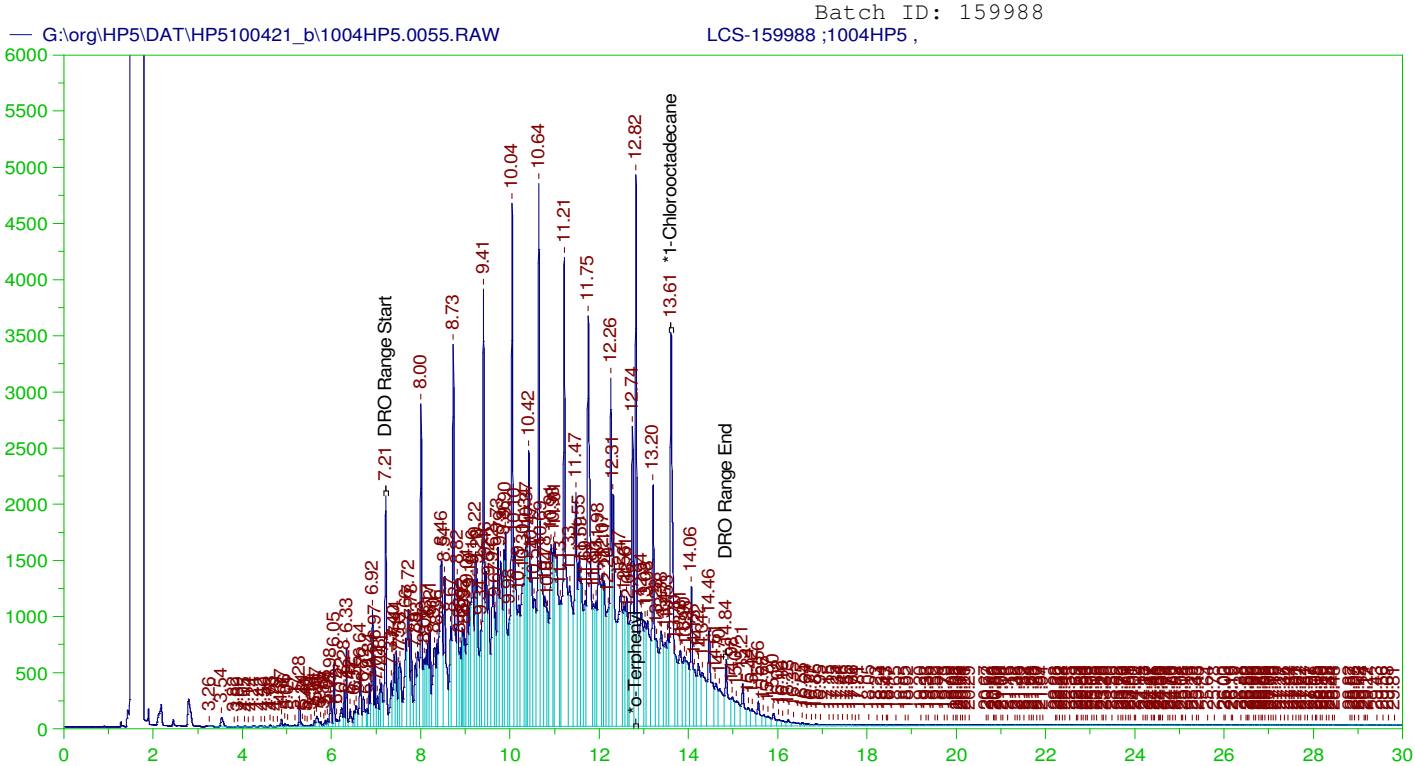
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988 ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0055.RAW
Date & Time Acquired: 10/6/2021 4:00:45 AM
Method File: G:\Org\HP5\Methods\D3_8015-10045-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.822 | .2 | .369 | 184.27 | - |
| *1-Chlorooctadecane | 13.607 | .2 | .381 | 190.34 | - |

DRO (C10-C24)Area:4.567659E+08 DRO (C10-C24)Amount: 15.50602
TEH Area:4.90601E+08 TEH Amount: 16.65463

AMN 10/17/2021

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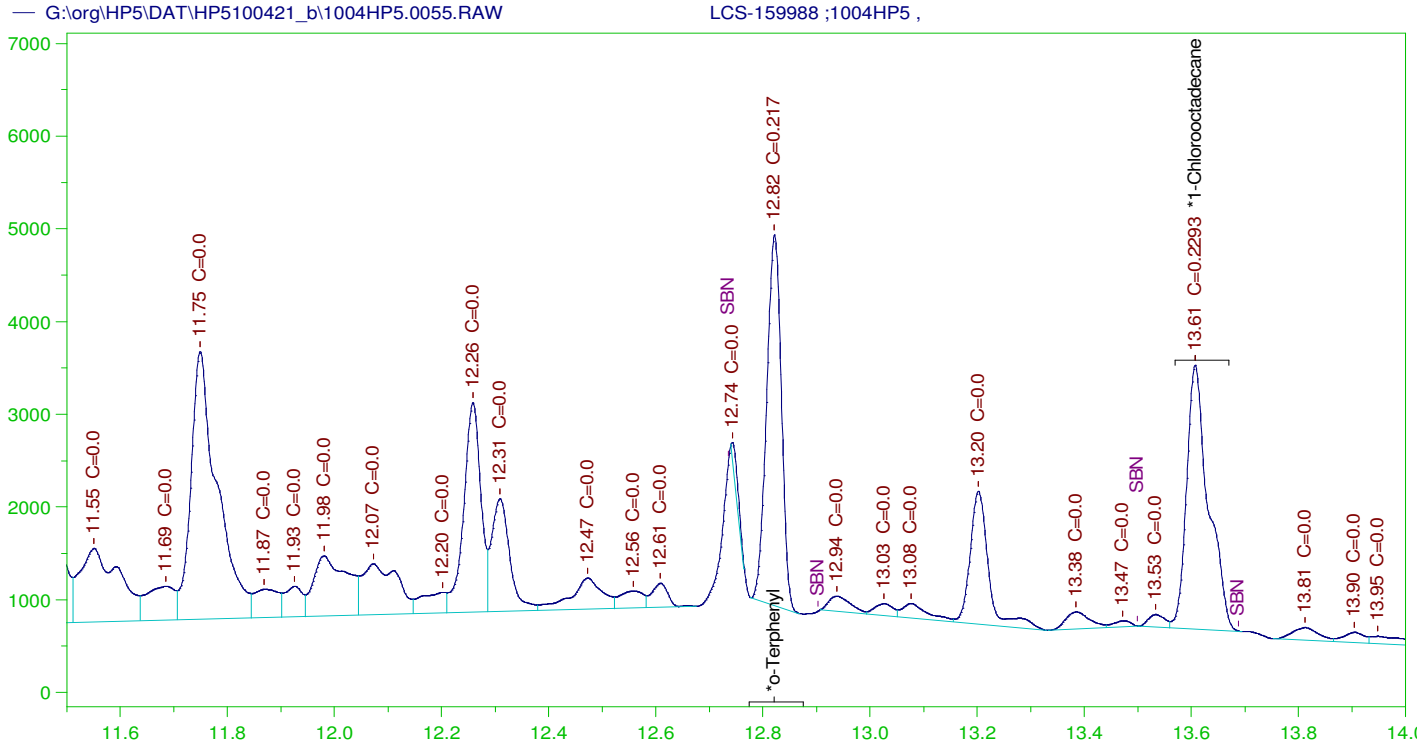
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988 ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0055.RAW
Date & Time Acquired: 10/6/2021 4:00:45 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.822 | .2 | .217 | 108.51 | - |
| *1-Chlorooctadecane | 13.607 | .2 | .229 | 114.65 | - |

DRO Area:2.24822E+08 DRO Amount: 7.632123
TEH Area:2.410222E+08 TEH Amount: 8.182077

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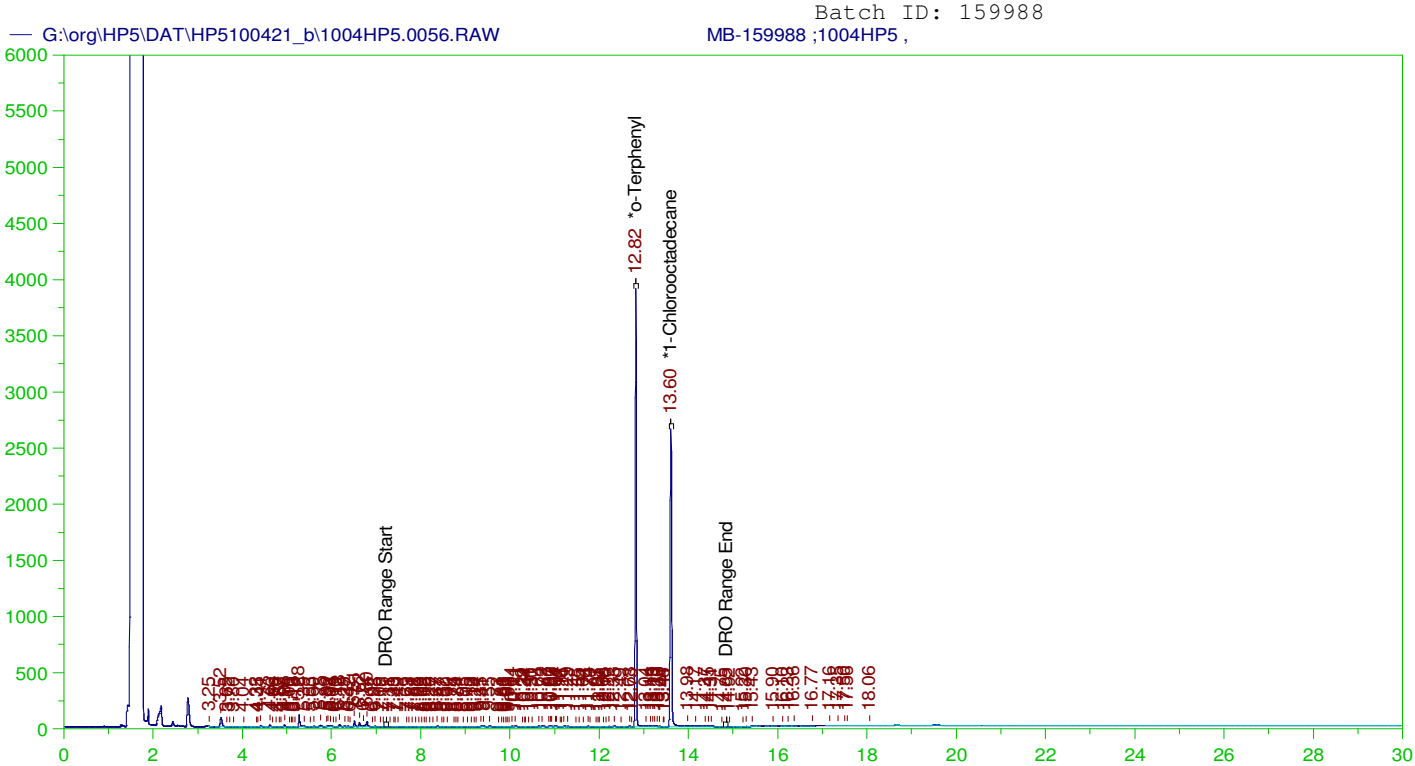
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-159988 ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0056.RAW
Date & Time Acquired: 10/6/2021 4:52:25 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

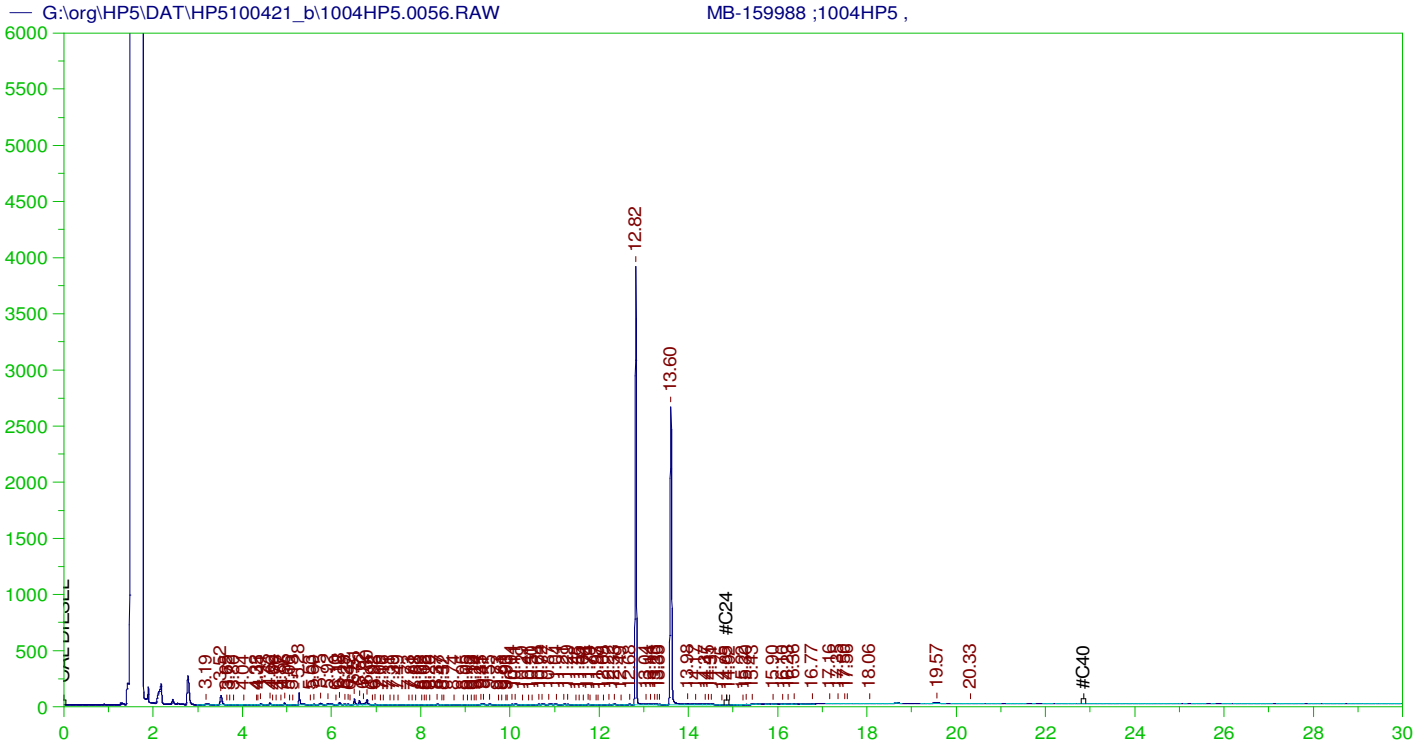
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.818 | .2 | .211 | 105.53 | - |
| *1-Chlorooctadecane | 13.604 | .2 | .165 | 82.74 | - |

DRO (C10-C24)Area:507113.5 DRO (C10-C24)Amount: 1.721519E-02
TEH Area:1637478 TEH Amount: 5.558813E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\056_MB-159988_DR_8015-C24-HPa-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-159988 ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0056.RAW
Date & Time Acquired: 10/6/2021 4:52:25 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

SURROGATE COMPOUND RT ACTUAL MEASURED %REC

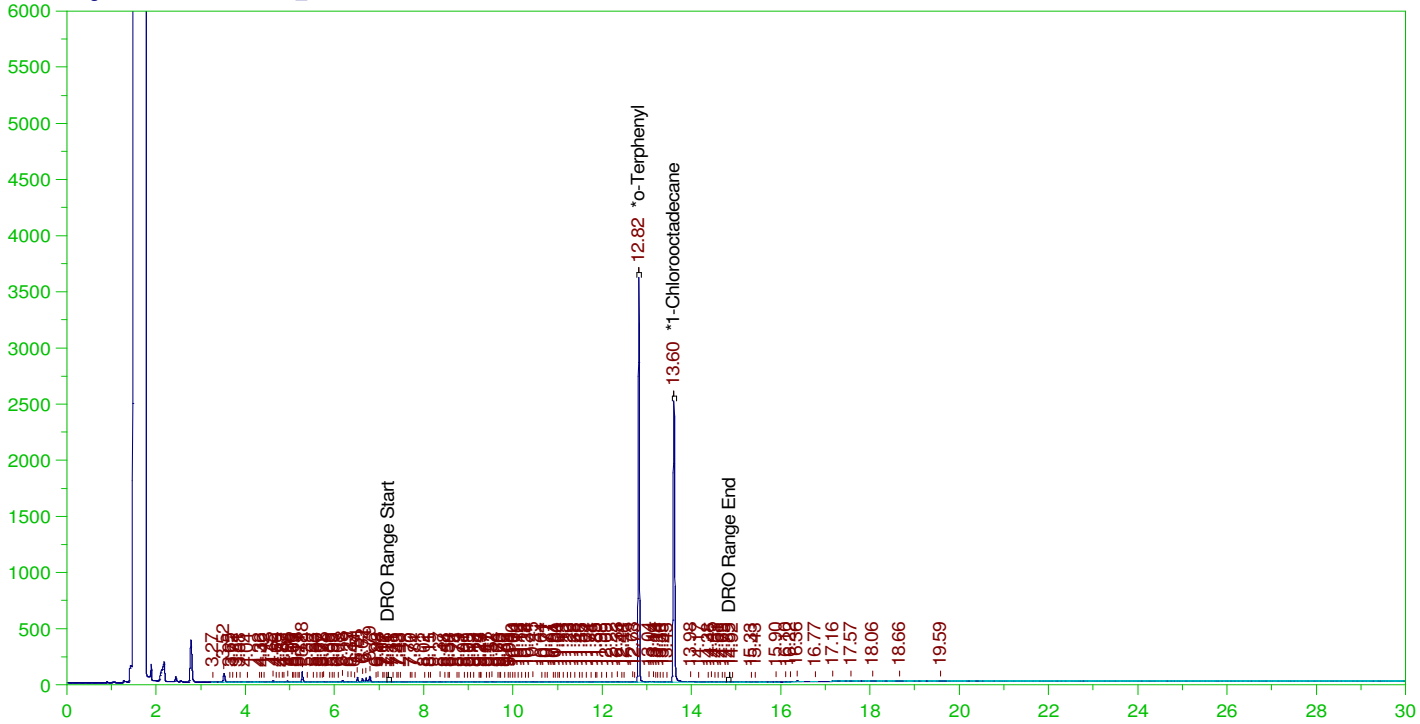
~~RRO~~ Oil Range(C24-C40)Area:35967.32 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 1.260136E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\056_MB-159988_DR_OIL-S-AHb-L%.xls

**ERH1776 (RHSF, Pre-chlorination)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0057.RAW B21100171-001A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100171-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0057.RAW
Date & Time Acquired: 10/6/2021 5:44:36 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.818 | .189 | .186 | 98.71 | - |
| *1-Chlorooctadecane | 13.605 | .189 | .148 | 78.66 | - |

DRO (C10-C24)Area:475269.2 DRO (C10-C24)Amount: 0.0152209
TEH Area:1594824 TEH Amount: 0.0510756

AMN 10/17/2021

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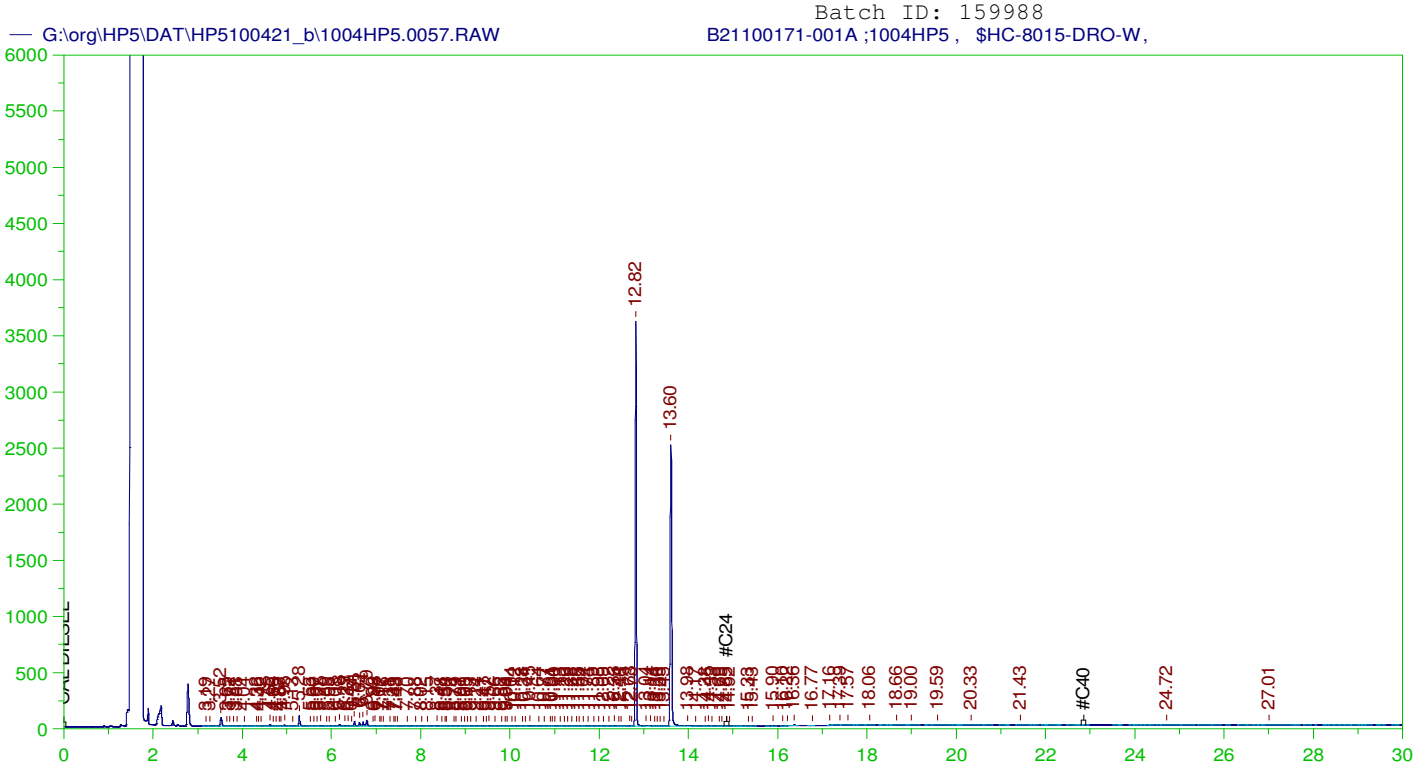
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100171-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0057.RAW
Date & Time Acquired: 10/6/2021 5:44:36 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:58592.96 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 1.93664E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\057_B21100171-001A_DR_OIL-S-AHb-L%.xls

**ERH1764 (RHMW08)** Batch ID: 159988

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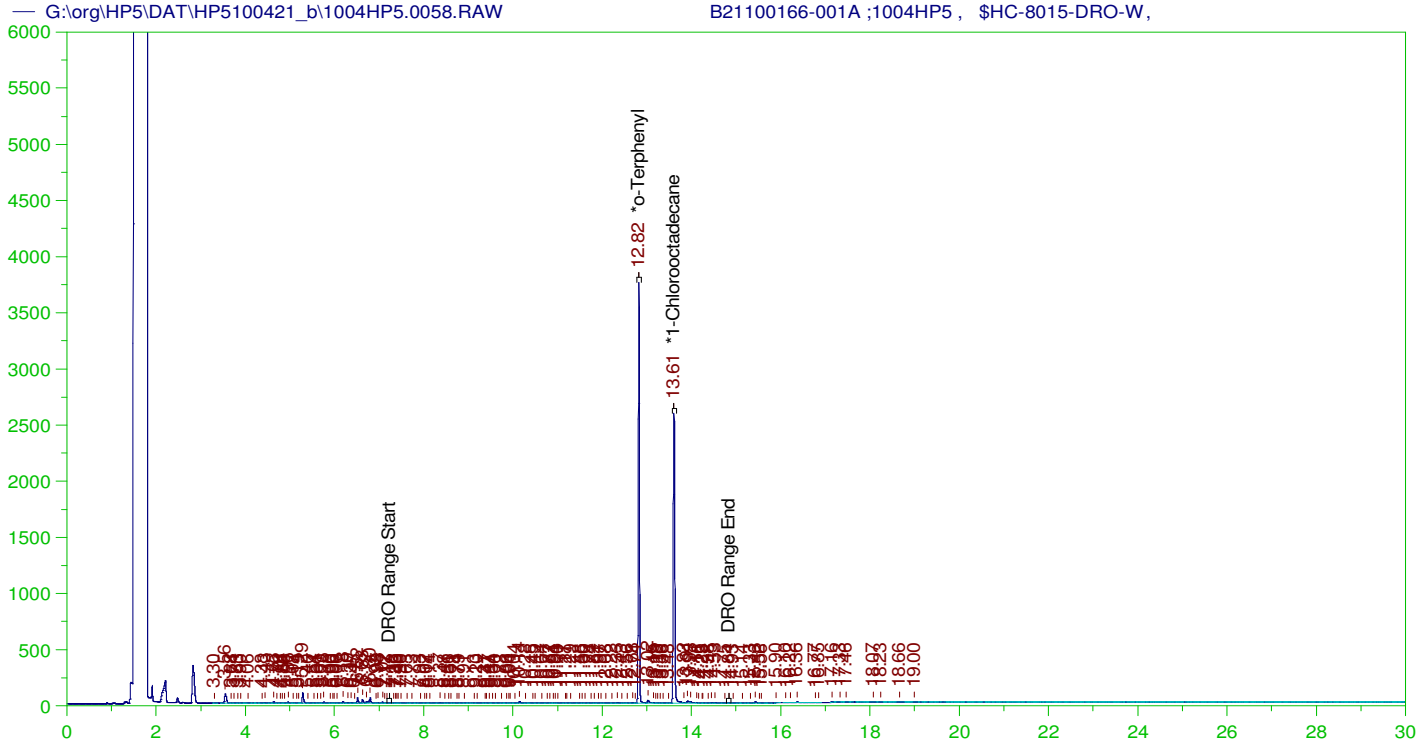


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0058.RAW
Date & Time Acquired: 10/6/2021 6:32:39 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.82 | .198 | .202 | 102.01 | - |
| *1-Chlorooctadecane | 13.606 | .198 | .16 | 80.56 | - |

DRO (C10-C24)Area:622668.8 DRO (C10-C24)Amount: 0.0209287
TEH Area:1804583 TEH Amount: 6.065436E-02

AMN 10/17/2021

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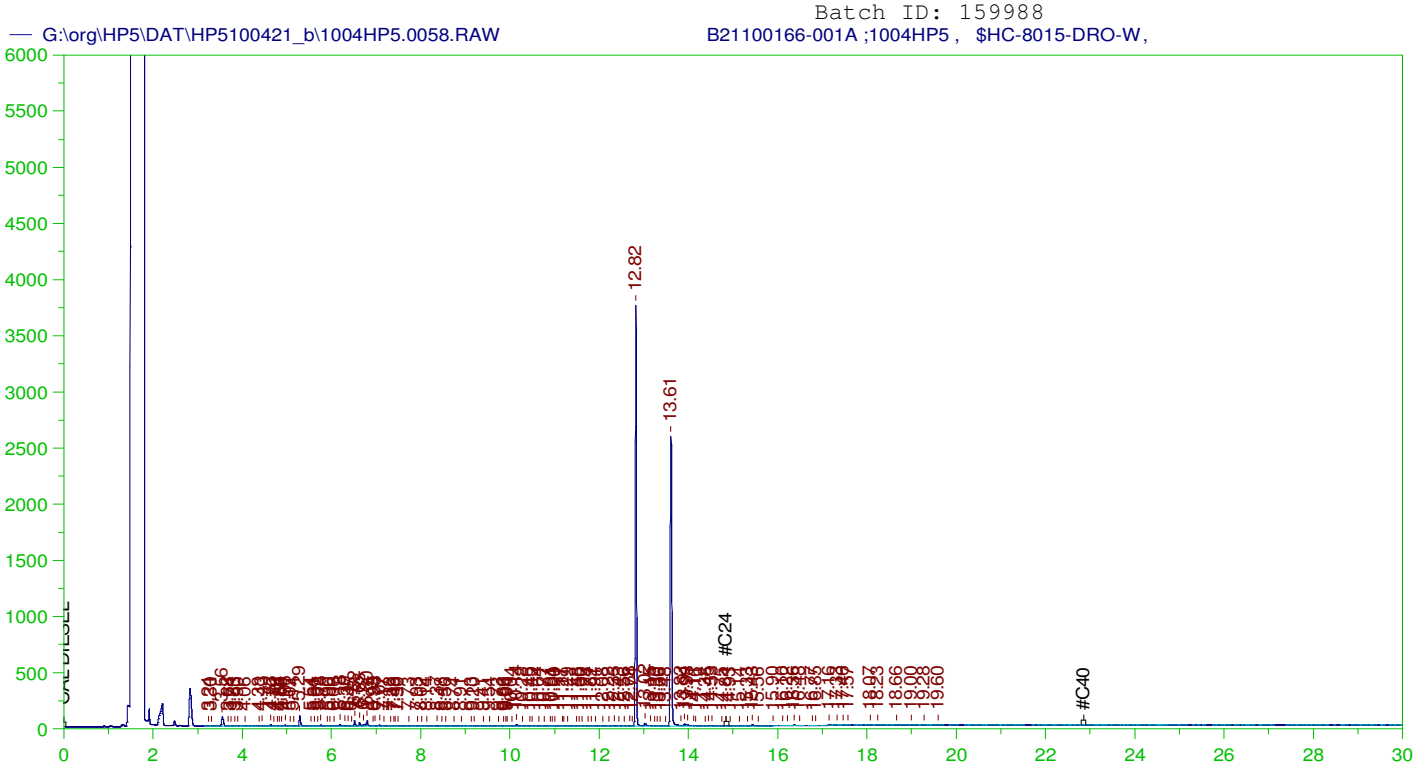
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0058.RAW
Date & Time Acquired: 10/6/2021 6:32:39 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:95442.28 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 3.310768E-03

AMN 10/17/2021

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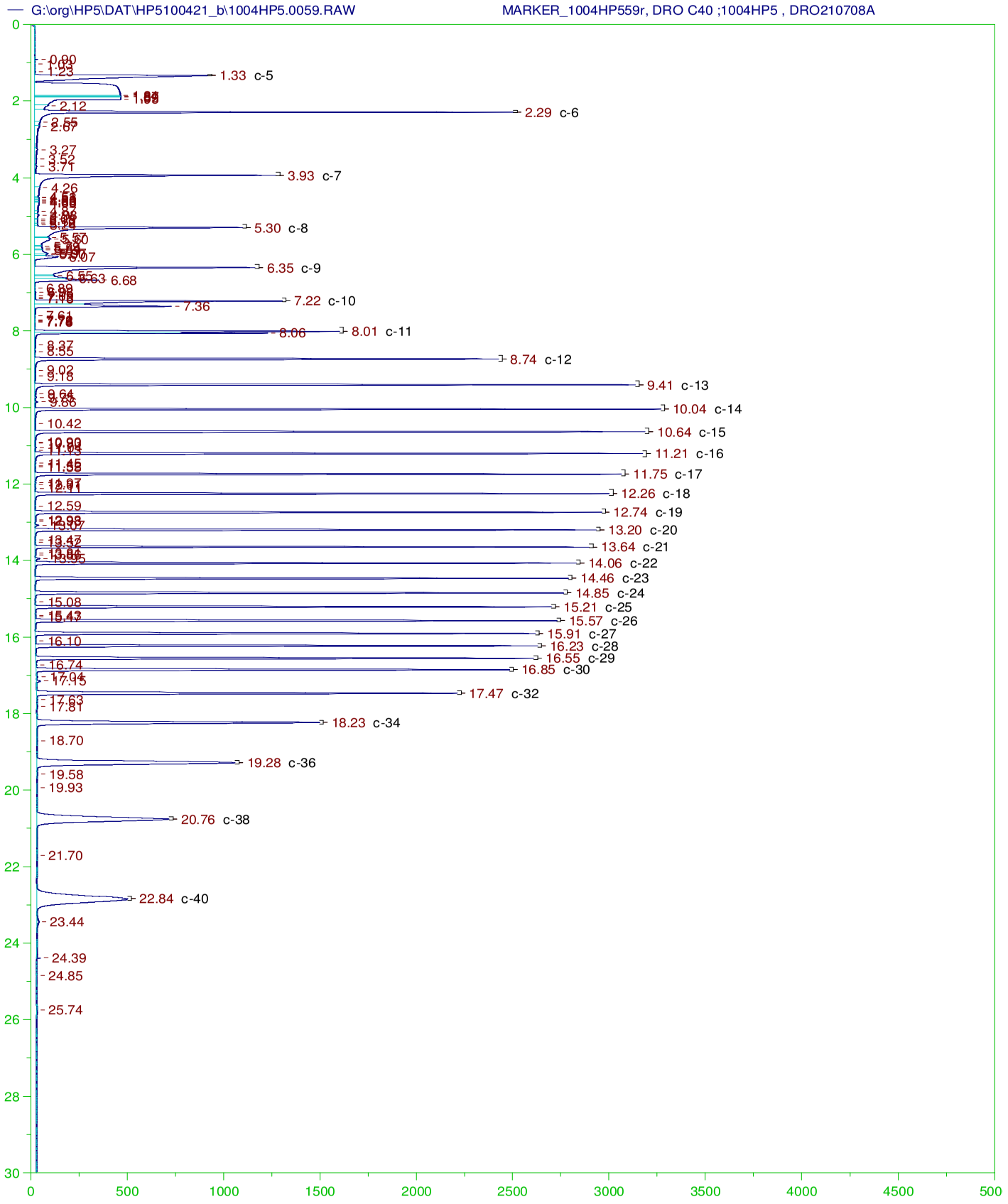
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MARKER_1004HP559r, DRO C40 ;1004HP5 , DRO210708A
1.33 c-5
2.29 c-6
3.93 c-7
5.30 c-8
6.35 c-9
6.68
7.22 c-10
7.36
8.01 c-11
8.74 c-12
9.41 c-13
10.04 c-14
10.64 c-15
11.21 c-16
11.75 c-17
12.26 c-18
12.74 c-19
13.20 c-20
13.64 c-21
14.06 c-22
14.46 c-23
14.85 c-24
15.21 c-25
15.57 c-26
15.91 c-27
16.23 c-28
16.55 c-29
16.85 c-30
17.47 c-32
18.23 c-34
19.28 c-36
20.76 c-38
22.84 c-40
23.44
24.39
24.85
25.74
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1500
2000
2500
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4500
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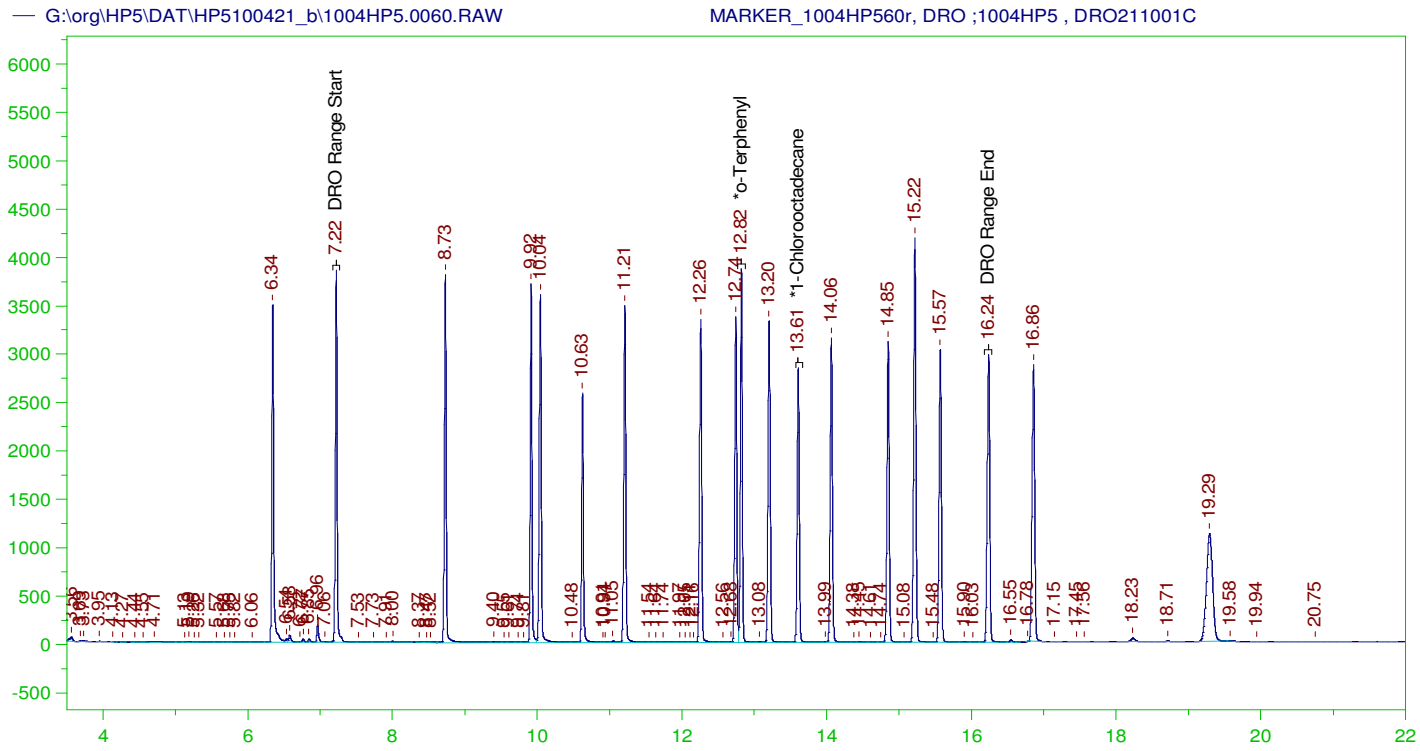



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

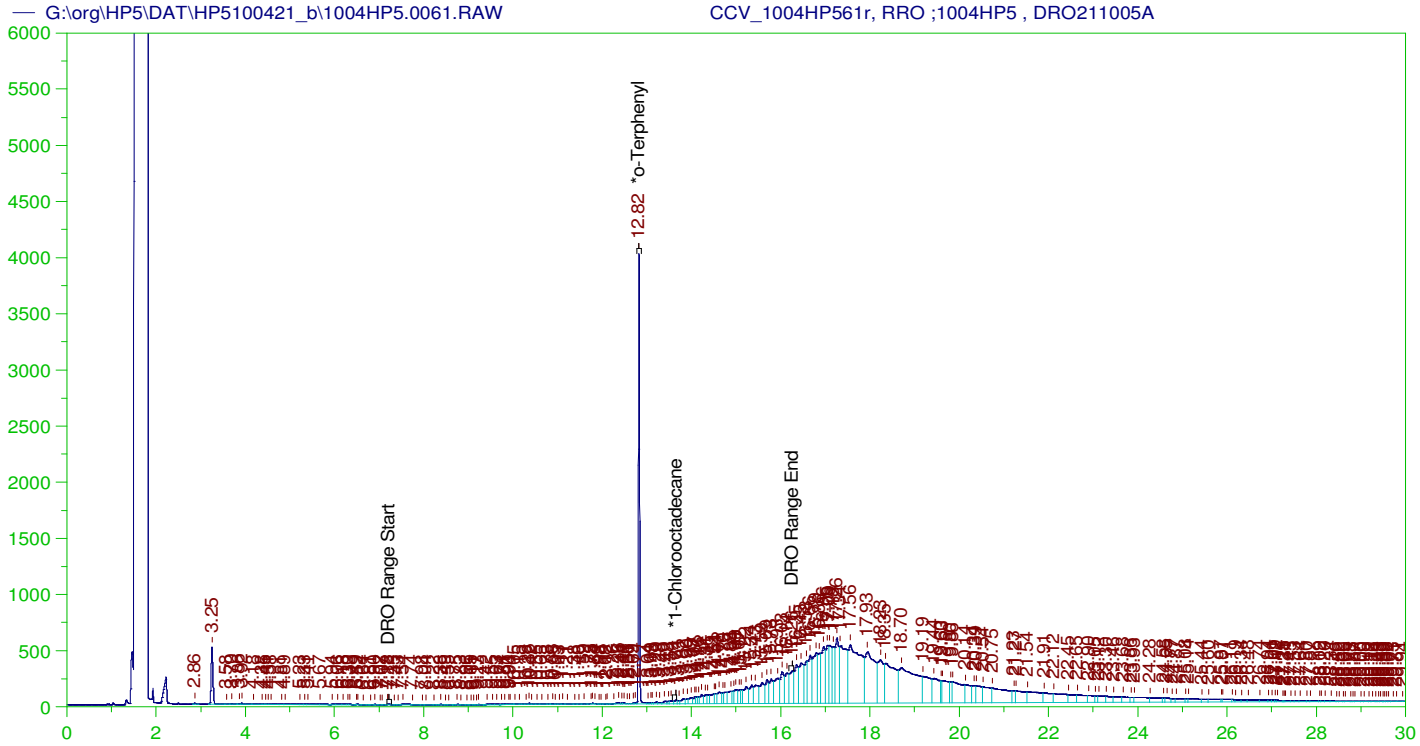
Sample Name: MARKER_1004HP560r, DRO ;1004HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0060.RAW
Date & Time Acquired: 10/6/2021 8:03:59 AM
Method File: G:\Org\HP5\Methods\DC_8015-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.822 | .2 | .211 | 105.4 | - |
| *1-Chlorooctadecane | 13.606 | .2 | .17 | 85.21 | - |

DRO Area:9.604197E+07 DRO Amount: 3.260376
TEH Area:1.223668E+08 TEH Amount: 4.154036

G:\org\HP5\dat\HP5100421_b\Review\Og\060_MARKER_1004HP560r_DC_8015-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP561r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0061.RAW
Date & Time Acquired: 10/6/2021 8:49:31 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AHb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | 200. | 221.577 | 110.79 | - |
| *1-Chlorooctadecane | 13.645 | 200. | 4.204 | 2.1 | - |

DRO Area:2.202561E+07 DRO Amount: 771.6802
TEH (Oil Range)Area:1.292376E+08 TEH (Oil Range)Amount: 4527.914

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0061.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4527.91 | 90.56 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | 200. | 221.577 | 110.79 | 85-115 |
| *1-Chlorooctadecane | 13.645 | 200. | 4.204 | 2.1 | 85-115 |

AMN 10/17/2021

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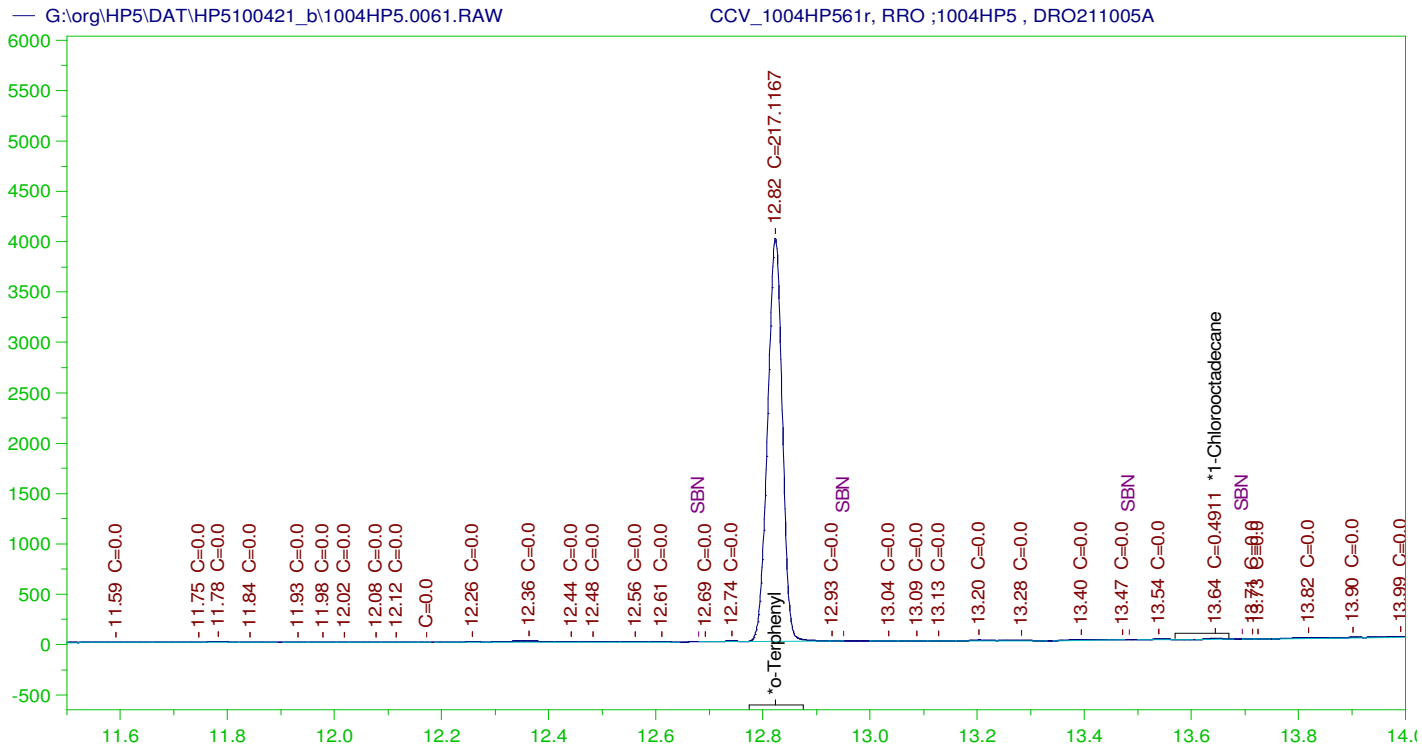


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP561r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0061.RAW
Date & Time Acquired: 10/6/2021 8:49:31 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | 200. | 217.117 | 108.56 | - |
| *1-Chlorooctadecane | 13.645 | 200. | .491 | .25 | - |

DRO Area:1503131 DRO Amount: 52.66306
TEH Area:3185798 TEH Amount: 111.6163

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0061.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 111.62 | 2.23 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | 200. | 217.117 | 108.56 | 85-115 |
| *1-Chlorooctadecane | 13.645 | 200. | .491 | .25 | 85-115 |

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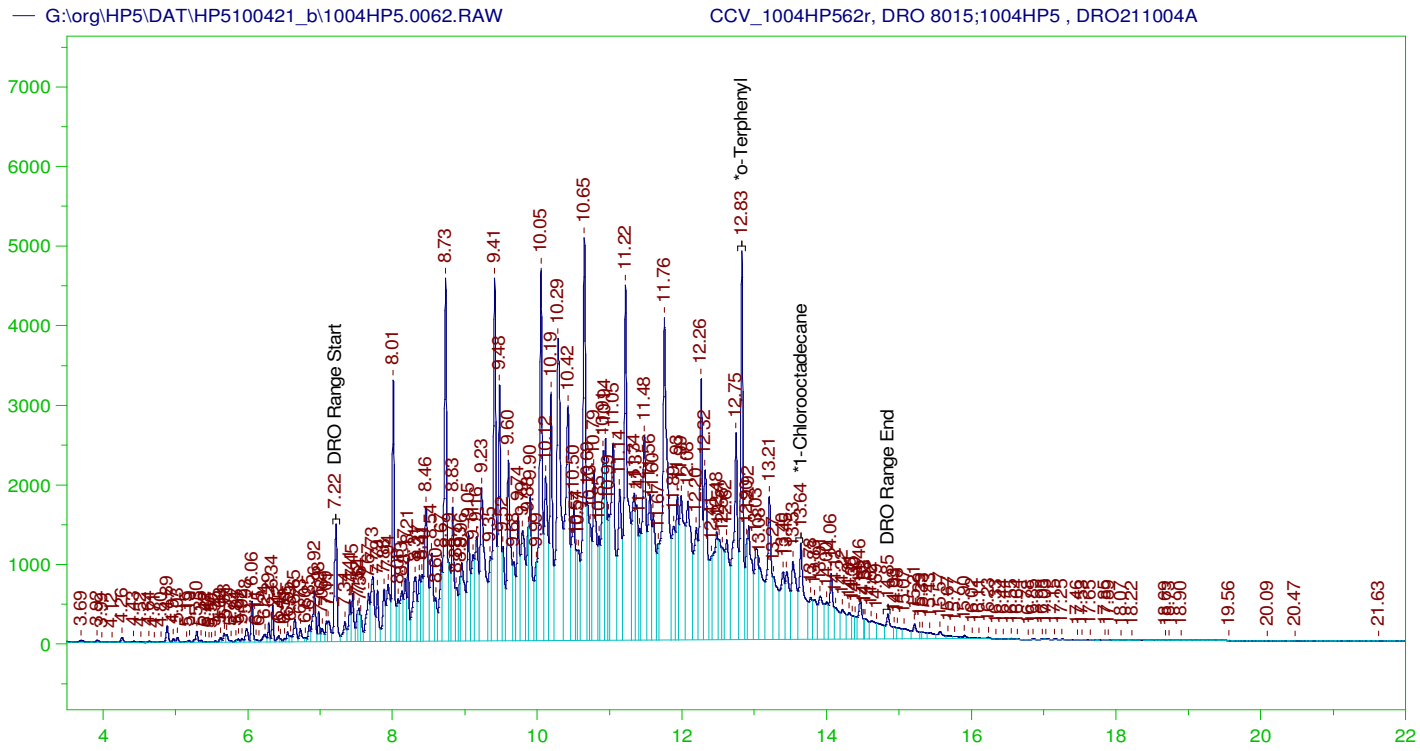



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP562r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0062.RAW
Date & Time Acquired: 10/6/2021 9:34:34 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | 200. | 352.637 | 176.32 | - |
| *1-Chlorooctadecane | 13.644 | 200. | 171.862 | 85.93 | - |

DRO (C10-C24)Area:5.003551E+08 DRO (C10-C24)Amount: 16985.76
TEH Area:5.174335E+08 TEH Amount: 17565.53

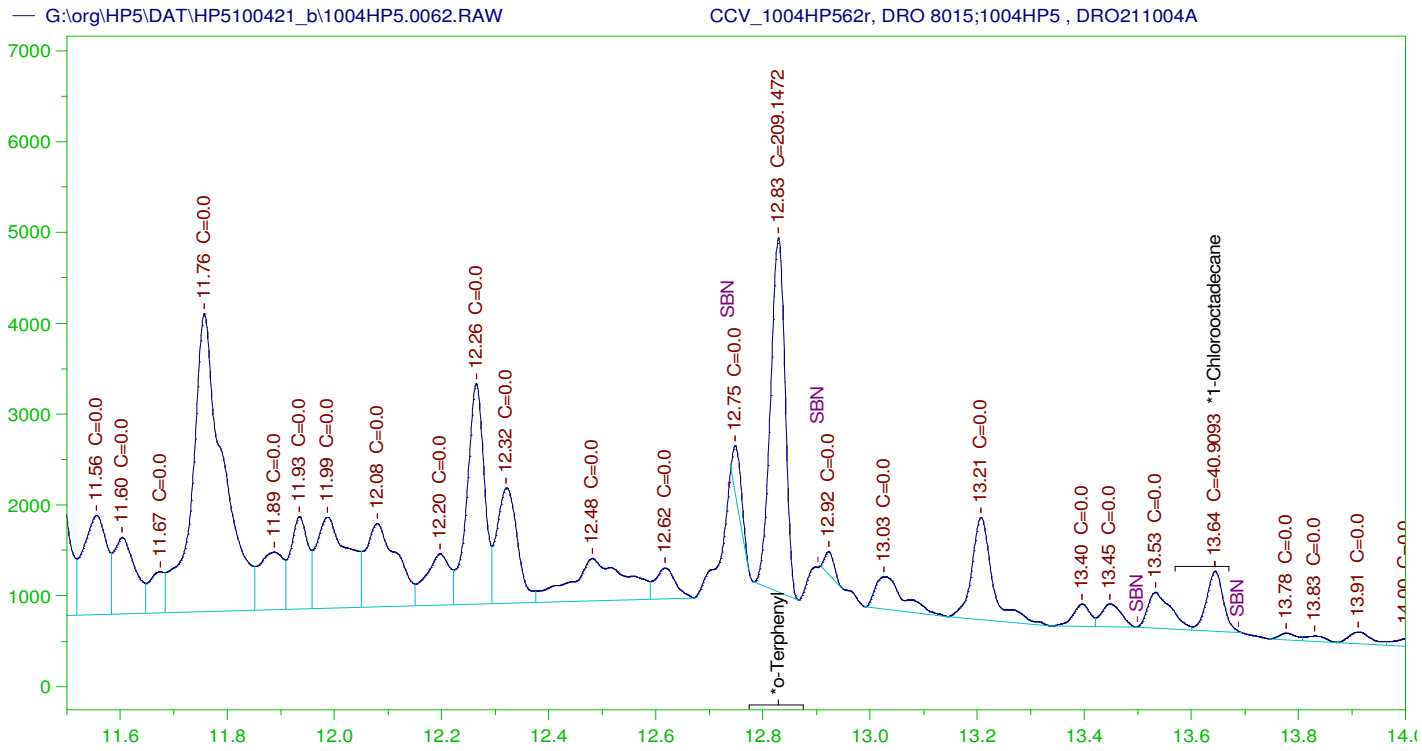
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0062.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 17565.53 | 117.1 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | 200. | 352.637 | 176.32 | 85-115 |
| *1-Chlorooctadecane | 13.644 | 200. | 171.862 | 85.93 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\062_CCV_1004HP562r_DC_8015-C24-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP562r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0062.RAW
Date & Time Acquired: 10/6/2021 9:34:34 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | 200. | 209.147 | 104.57 | - |
| *1-Chlorooctadecane | 13.644 | 200. | 40.909 | 20.45 | - |

DRO Area:2.784648E+08 DRO Amount: 9453.158
TEH Area:2.892708E+08 TEH Amount: 9819.994

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0062.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9819.99 | 65.47 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | 200. | 209.147 | 104.57 | 85-115 |
| *1-Chlorooctadecane | 13.644 | 200. | 40.909 | 20.45 | 85-115 |

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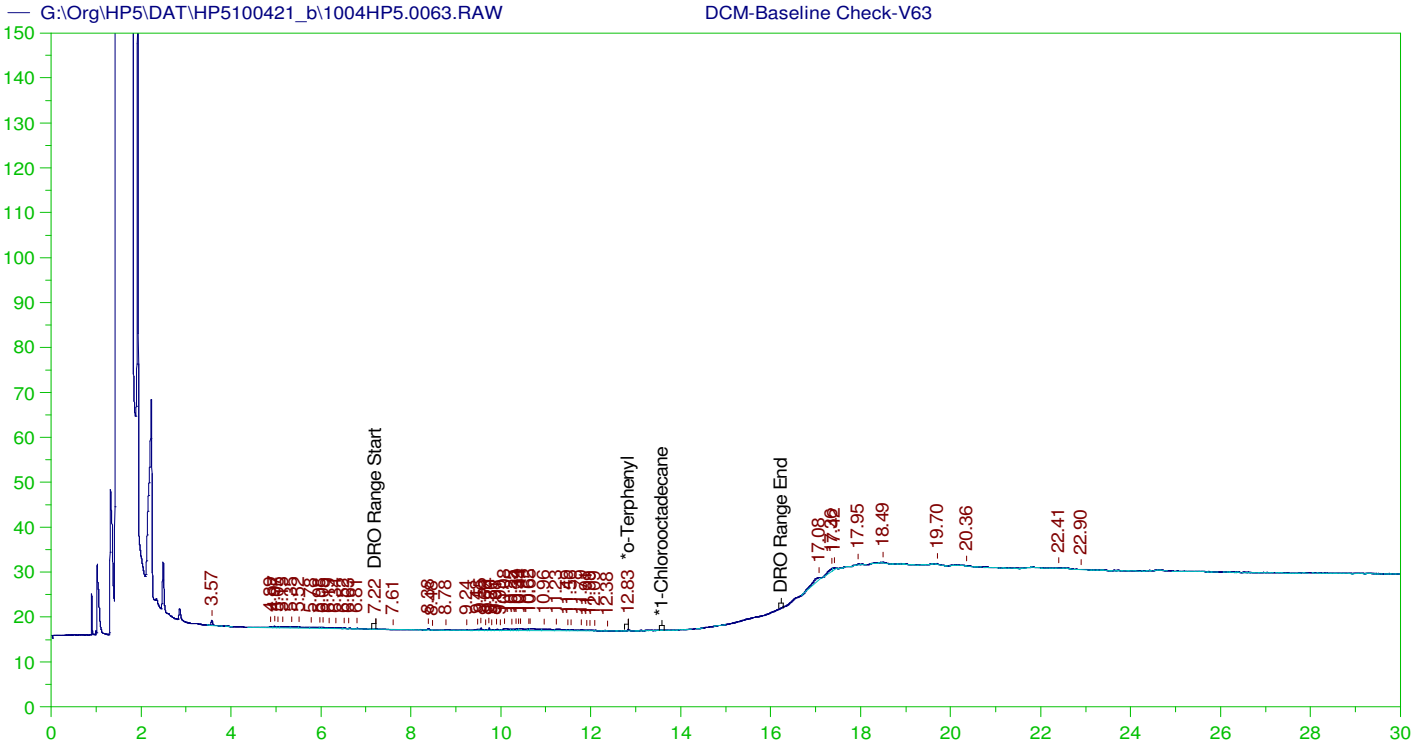



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V63
Raw File: G:\Org\HP5\DAT\HP5100421_b\1004HP5.0063.RAW
Date & Time Acquired: 10/6/2021 10:20:50 AM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.125 to 16.28

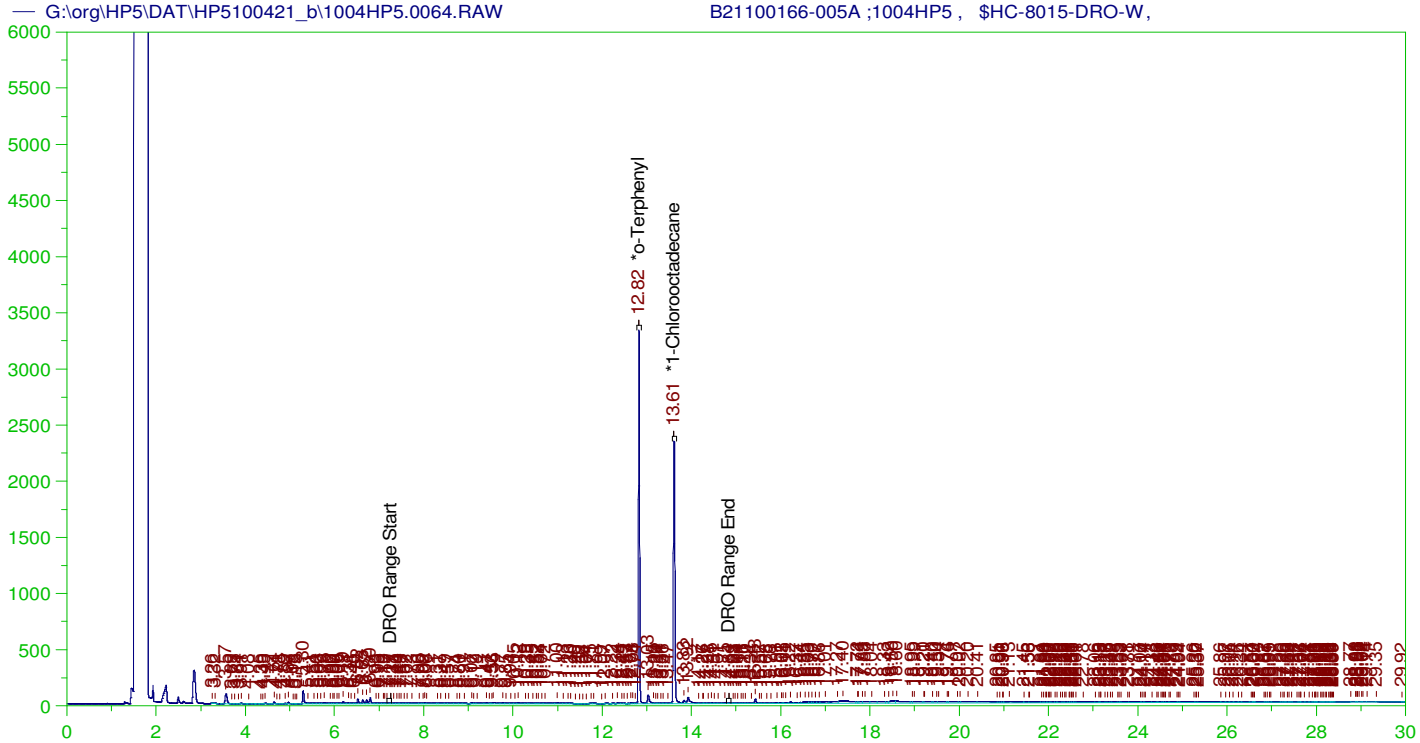
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | .04 | .02 | - |
| *1-Chlorooctadecane | 29.899 | 200. | . | . | - |

DRO Area:68368.34 DRO Amount: 2.320928
TEH Area:138693.9 TEH Amount: 4.708298

G:\org\HP5\dat\HP5100421_b\Review\063_DCM-Baseline Chec_DR_8015-HP-LEXP.xls

**ERH1762 (RHMW04)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW B21100166-005A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-005A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW
Date & Time Acquired: 10/6/2021 11:07:08 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .194 | .176 | 90.85 | - |
| *1-Chlorooctadecane | 13.608 | .194 | .14 | 71.97 | - |

DRO (C10-C24)Area:1440101 DRO (C10-C24)Amount: 4.746377E-02
TEH Area:8796204 TEH Amount: 0.289911

AMN 10/17/20201

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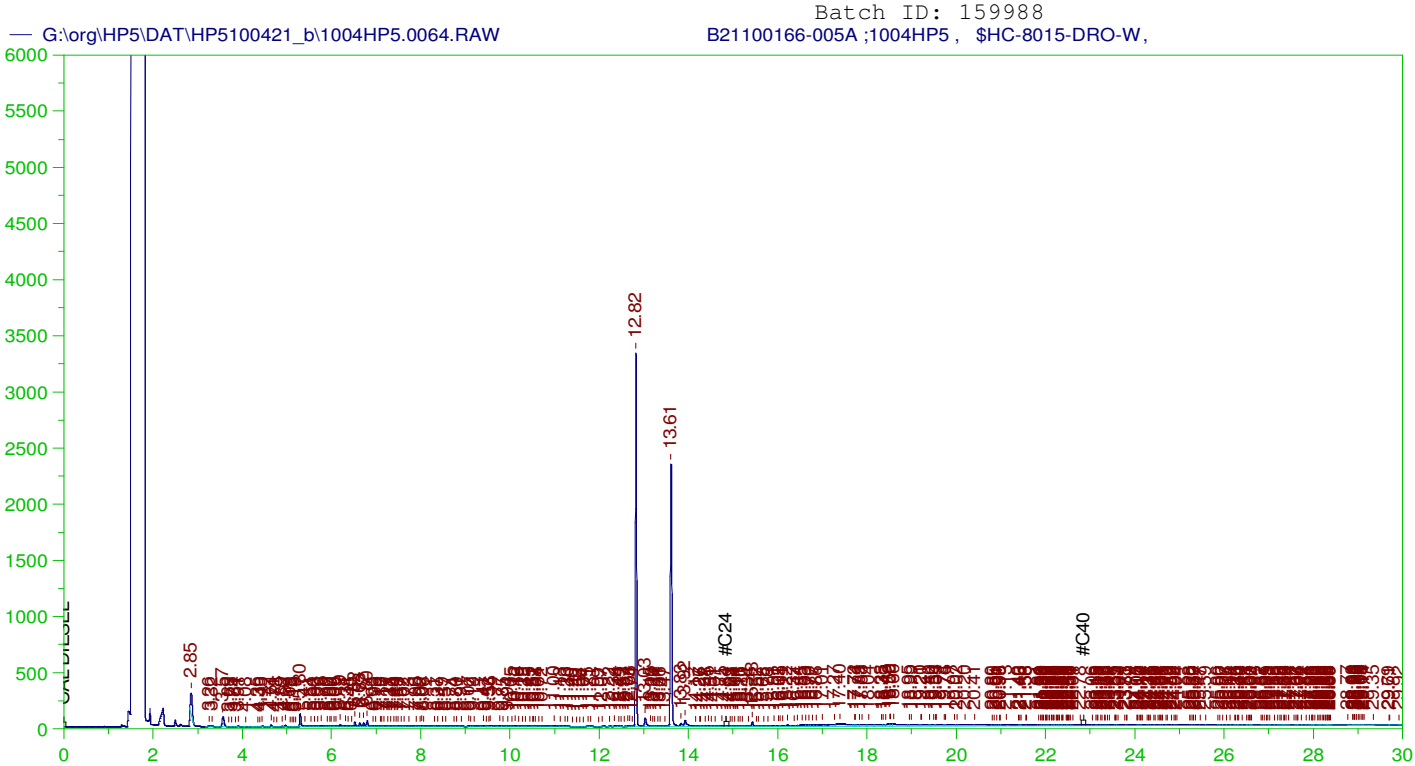
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-005A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW
Date & Time Acquired: 10/6/2021 11:07:08 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40)Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:4851521 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.1650251

AMN 10/17/2021

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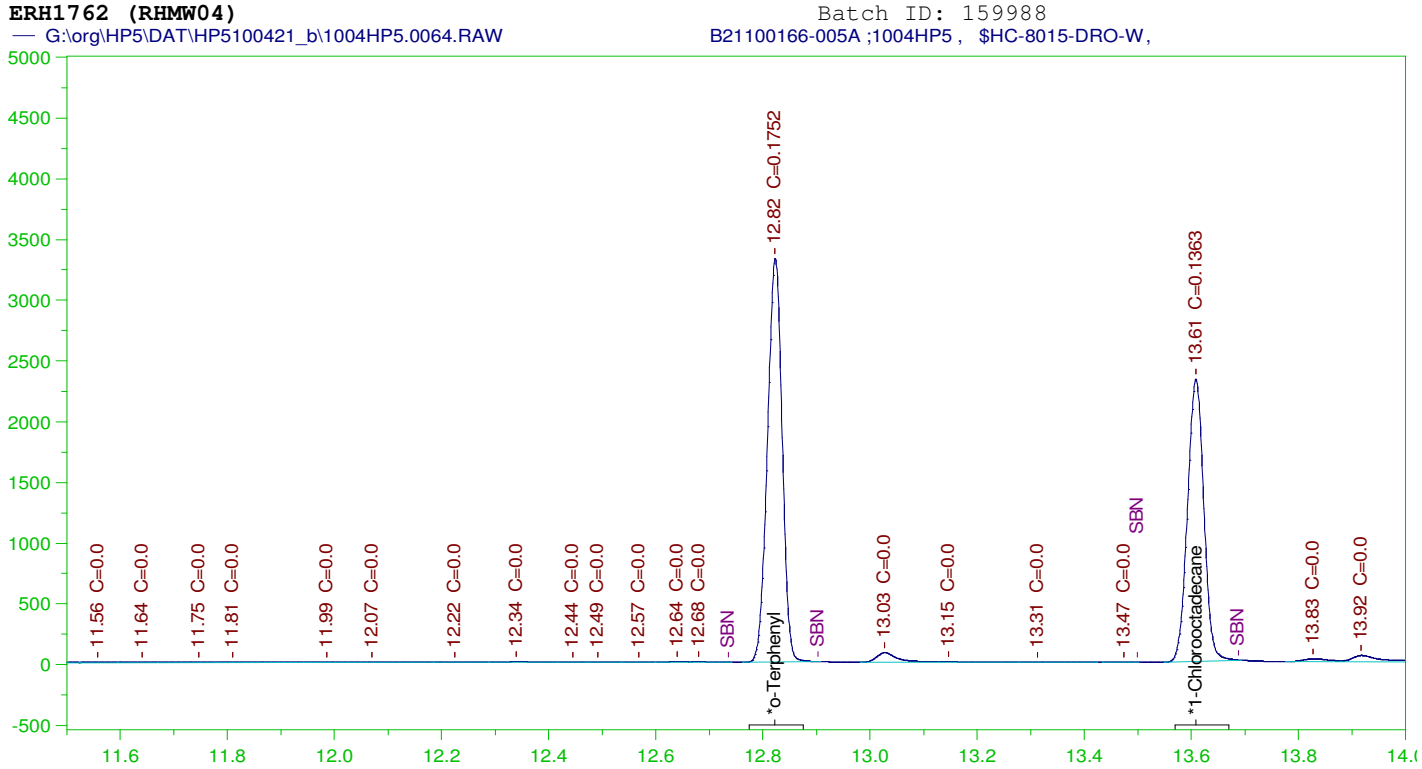
**ERH1762 (RHMW04)** Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-005A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW
Date & Time Acquired: 10/6/2021 11:07:08 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .194 | .175 | 90.2 | - |
| *1-Chlorooctadecane | 13.608 | .194 | .136 | 70.22 | - |

DRO Area:1374988 DRO Amount: 4.531774E-02
TEH Area:3915435 TEH Amount: 0.1290474

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**ERH1765 (RHMW09)** Batch ID: 159988

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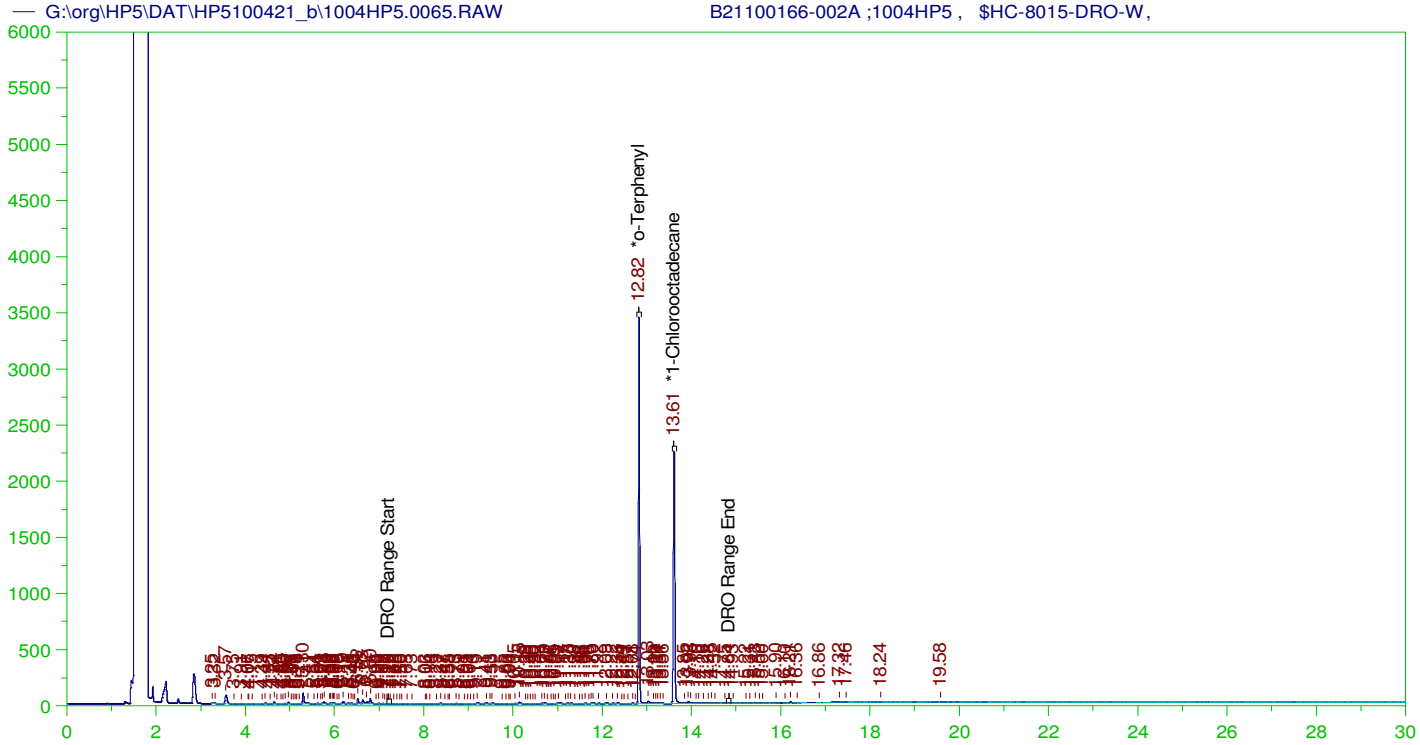


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0065.RAW
Date & Time Acquired: 10/6/2021 11:54:38 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .192 | .179 | 93.18 | - |
| *1-Chlorooctadecane | 13.608 | .192 | .133 | 69.17 | - |

DRO (C10-C24)Area:603600.1 DRO (C10-C24)Amount: 1.970256E-02
TEH Area:1710598 TEH Amount: 5.583687E-02

AMN 10/17/2021

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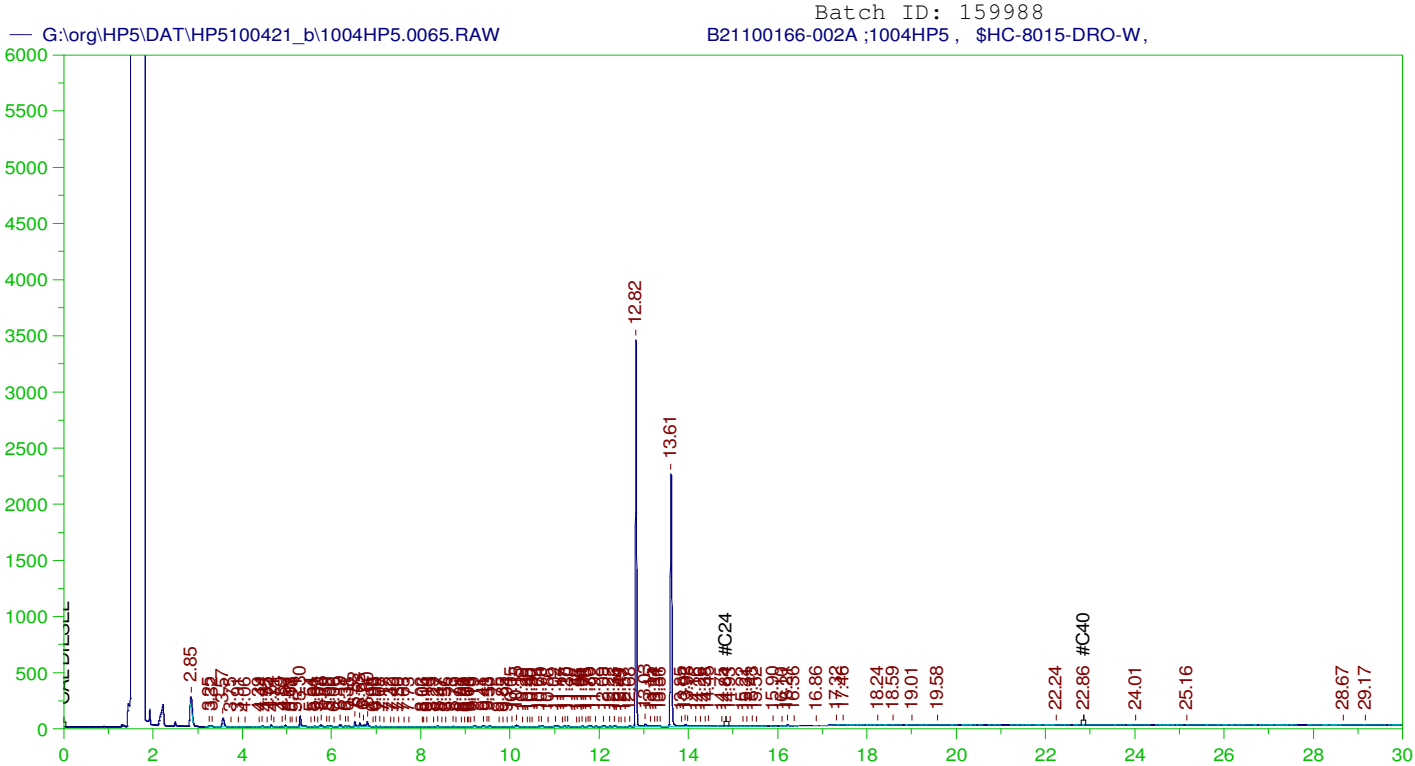
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-002A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0065.RAW
Date & Time Acquired: 10/6/2021 11:54:38 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40)Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:101547.8 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 3.420949E-03

AMN 10/17/2021

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**ERH1765 (RHMW09)** Batch ID: 159988

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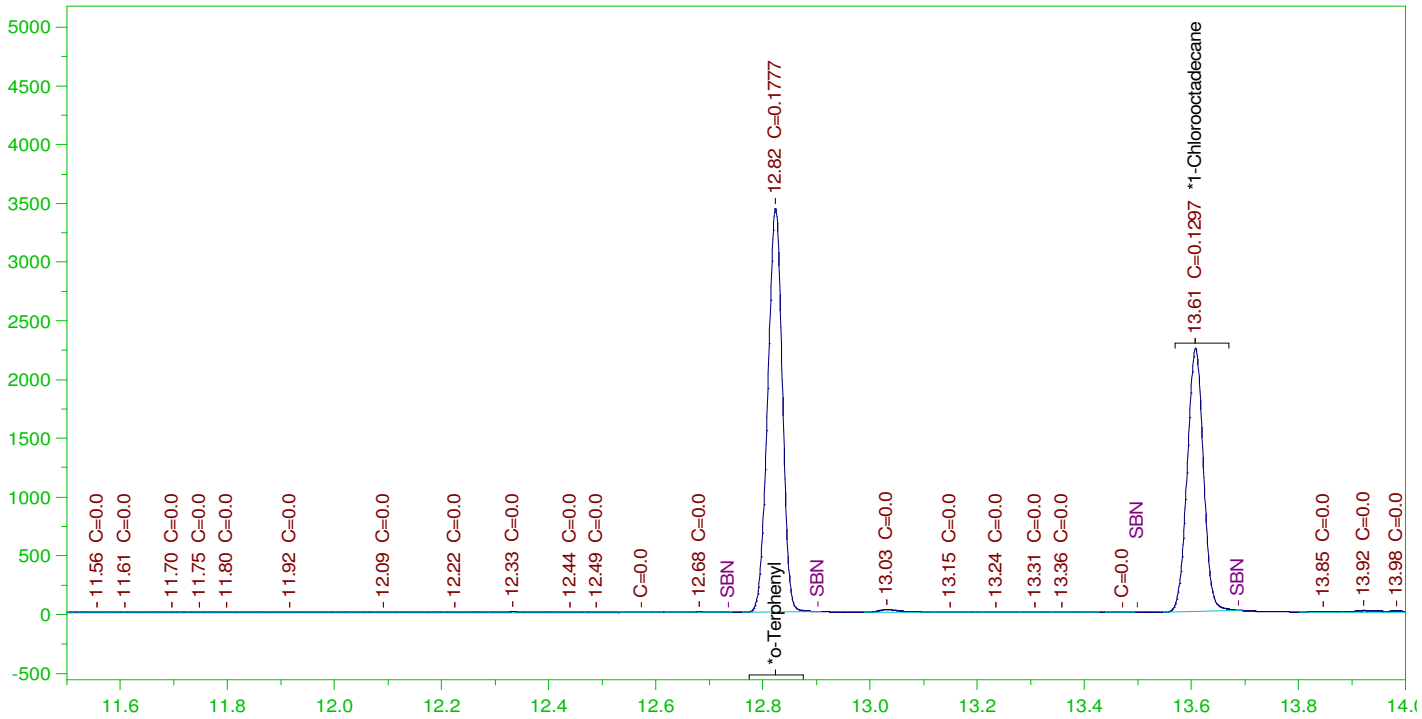



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0065.RAW
Date & Time Acquired: 10/6/2021 11:54:38 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

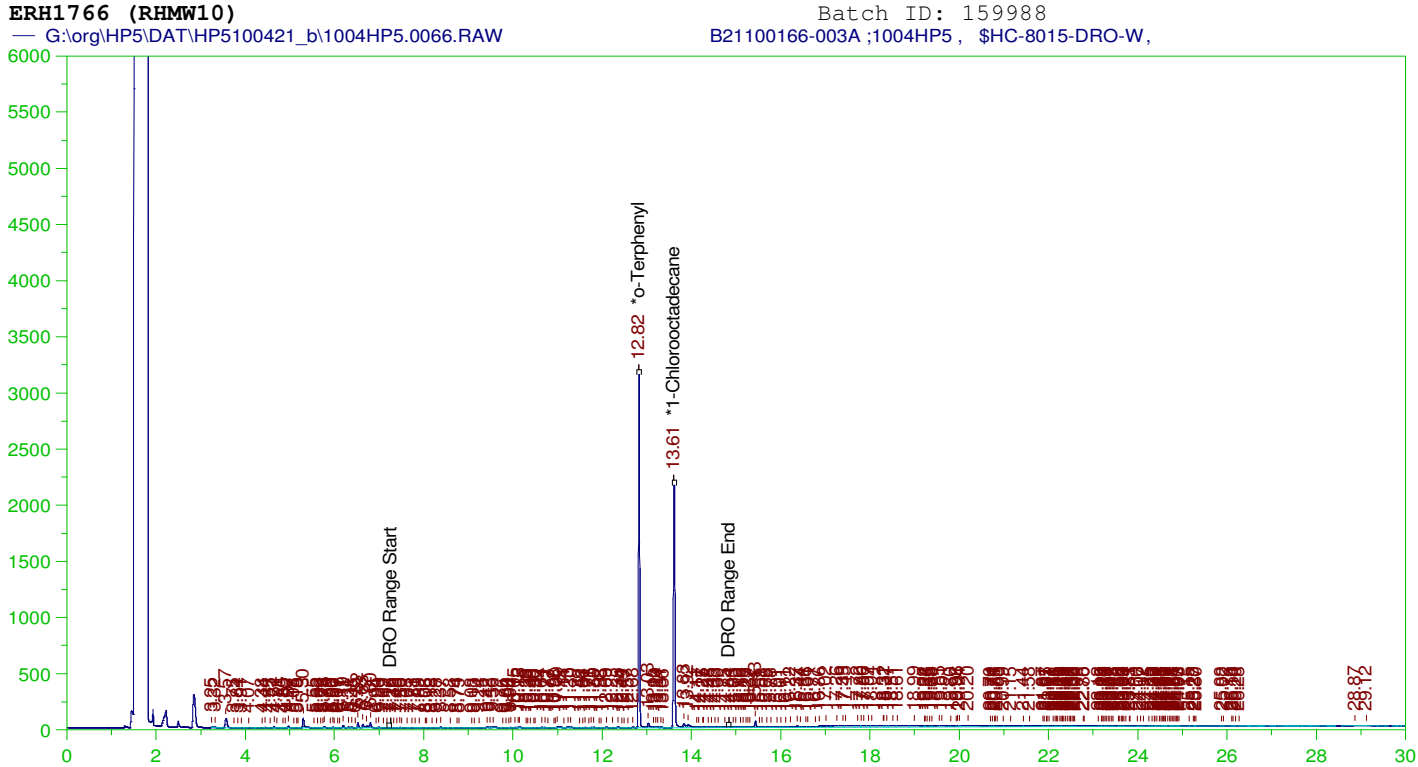
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .192 | .178 | 92.43 | - |
| *1-Chlorooctadecane | 13.608 | .192 | .13 | 67.45 | - |

DRO Area:514882.2 DRO Amount: 1.680665E-02
TEH Area:2613567 TEH Amount: 8.531138E-02

G:\org\HP5\dat\HP5100421_b\Review\Og\065_B21100166-002A_DS_8015-HPa-L#.xls

**ERH1766 (RHMW10)** Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-003A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0066.RAW
Date & Time Acquired: 10/6/2021 12:42:16 PM
Method File: G:\Org\HP5\Methods\D3_8015-100466-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.824 | .192 | .165 | 85.72 | - |
| *1-Chlorooctadecane | 13.609 | .192 | .128 | 66.52 | - |

DRO (C10-C24)Area:881705.5 DRO(C10-C24) Amount: 0.0287804
TEH Area:6499245 TEH Amount: 0.2121466

AMN 10/17/2021

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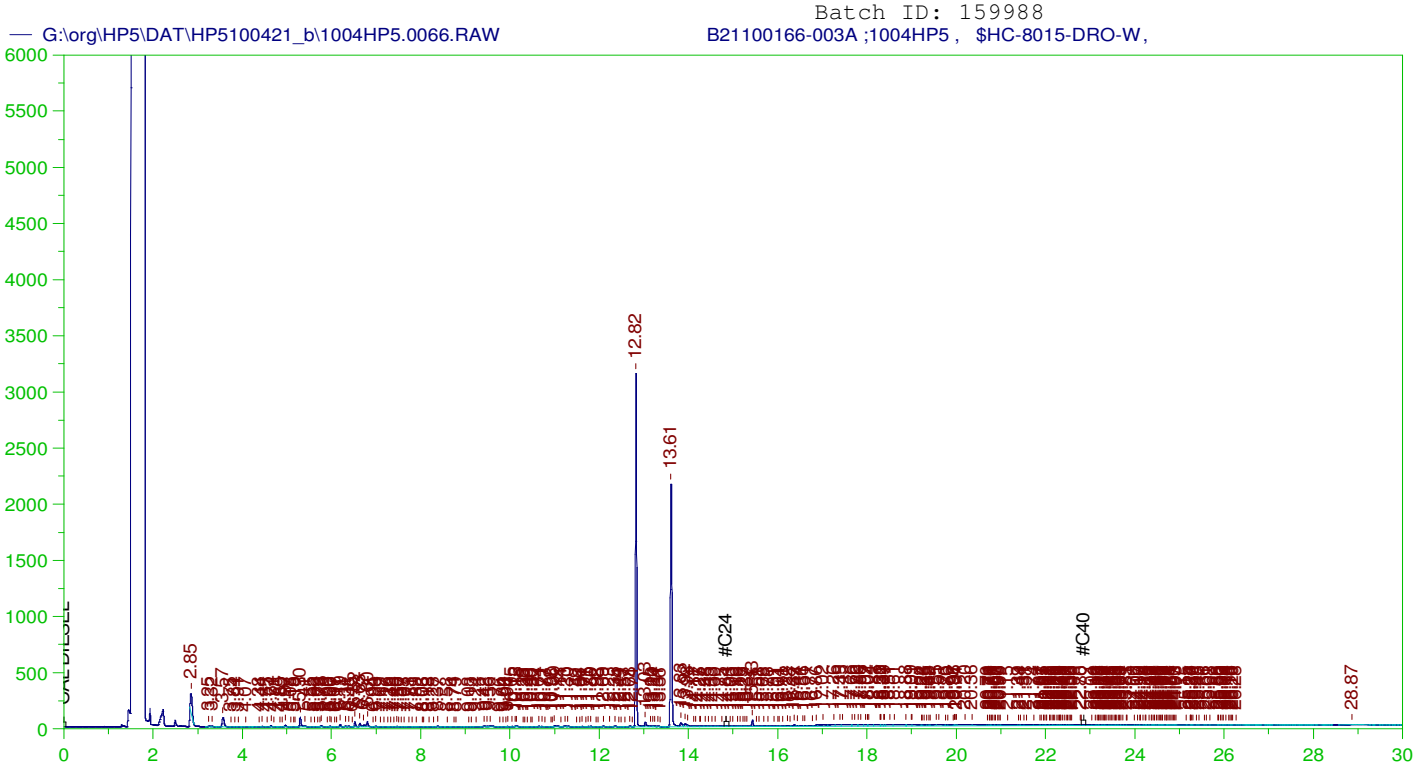
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-003A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0066.RAW
Date & Time Acquired: 10/6/2021 12:42:16 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-100466-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:4088342 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 0.1377283

AMN 10/17/2021

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**ERH1766 (RHMW10)** Batch ID: 159988

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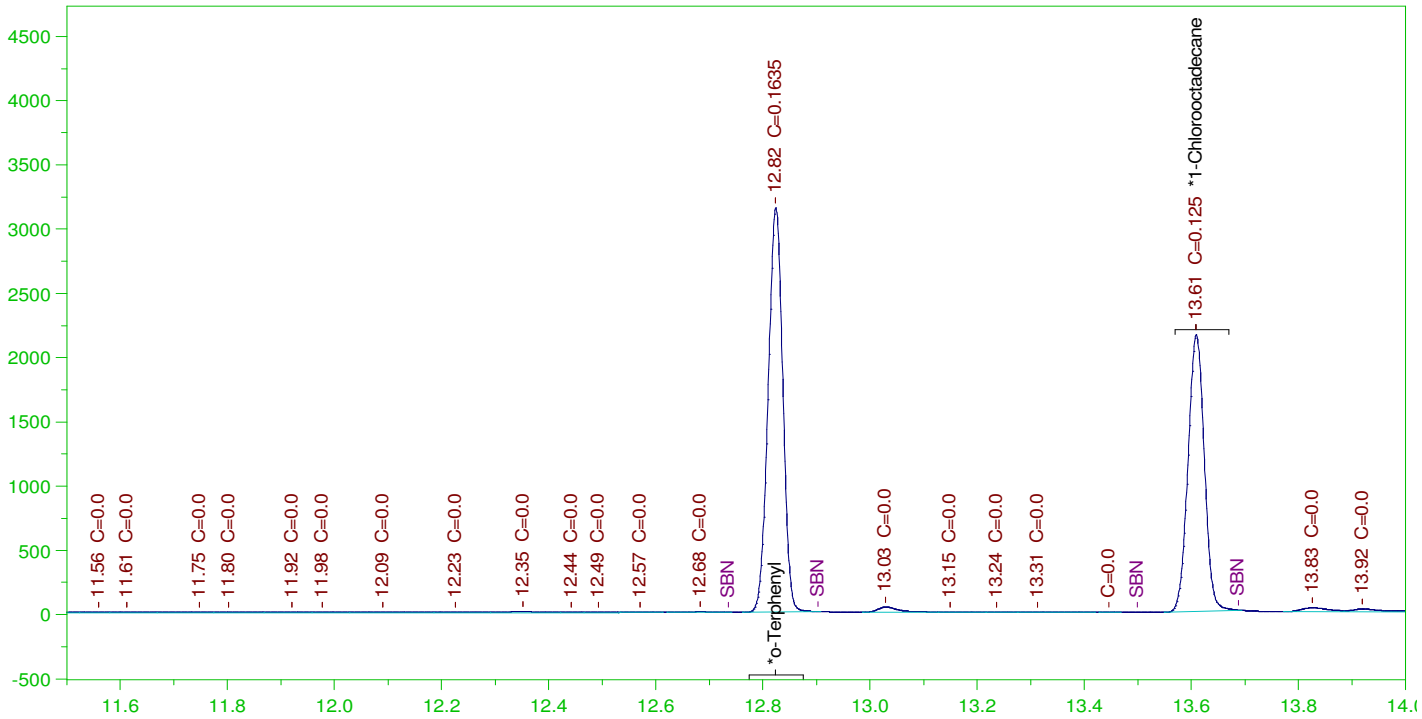


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-003A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0066.RAW
Date & Time Acquired: 10/6/2021 12:42:16 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.824 | .192 | .164 | 85.03 | - |
| *1-Chlorooctadecane | 13.609 | .192 | .125 | 64.98 | - |

DRO Area:882610.3 DRO Amount: 2.880993E-02
TEH Area:3127177 TEH Amount: 0.1020765

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**ERH1769 (RHMW19)** Batch ID: 159988

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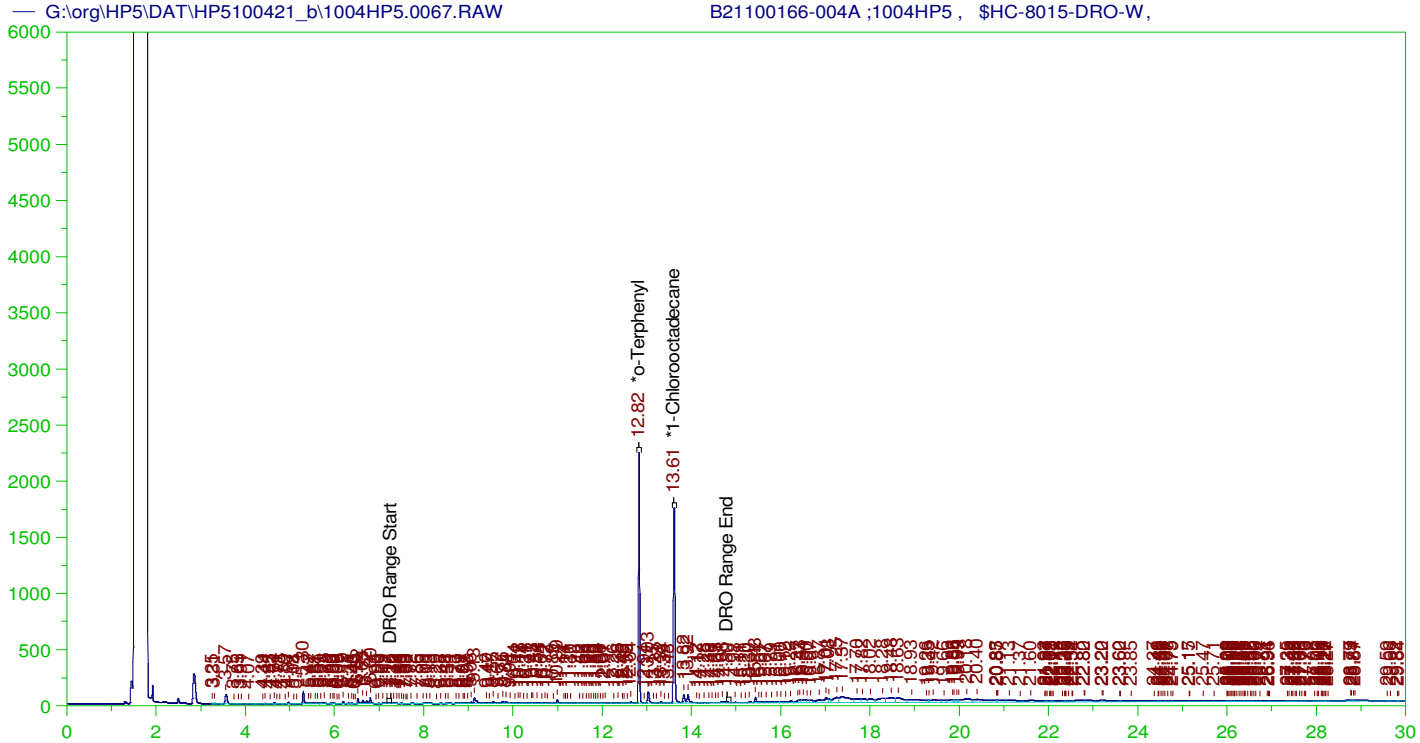


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-004A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0067.RAW
Date & Time Acquired: 10/6/2021 1:29:54 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .196 | .119 | 60.85 | - |
| *1-Chlorooctadecane | 13.609 | .196 | .105 | 53.36 | - |

DRO (C10-C24)Area:2471758 DRO (C10-C24)Amount: 8.226448E-02
TEH Area:1.70335E+07 TEH Amount: 0.566905

AMN 10/17/2021

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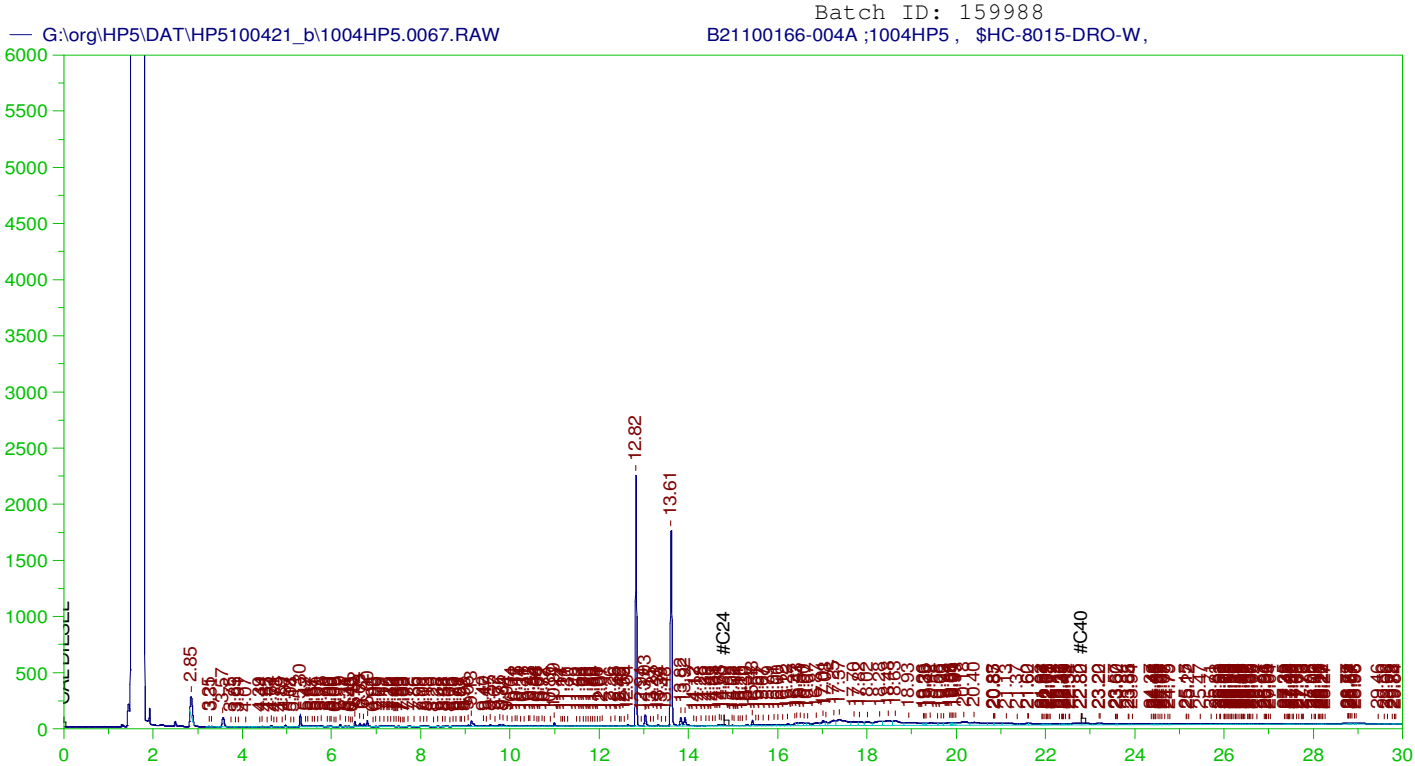
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-004A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0067.RAW
Date & Time Acquired: 10/6/2021 1:29:54 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:1.094225E+07 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.375851

AMN 10/17/2021

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**ERH1769 (RHMW19)** Batch ID: 159988

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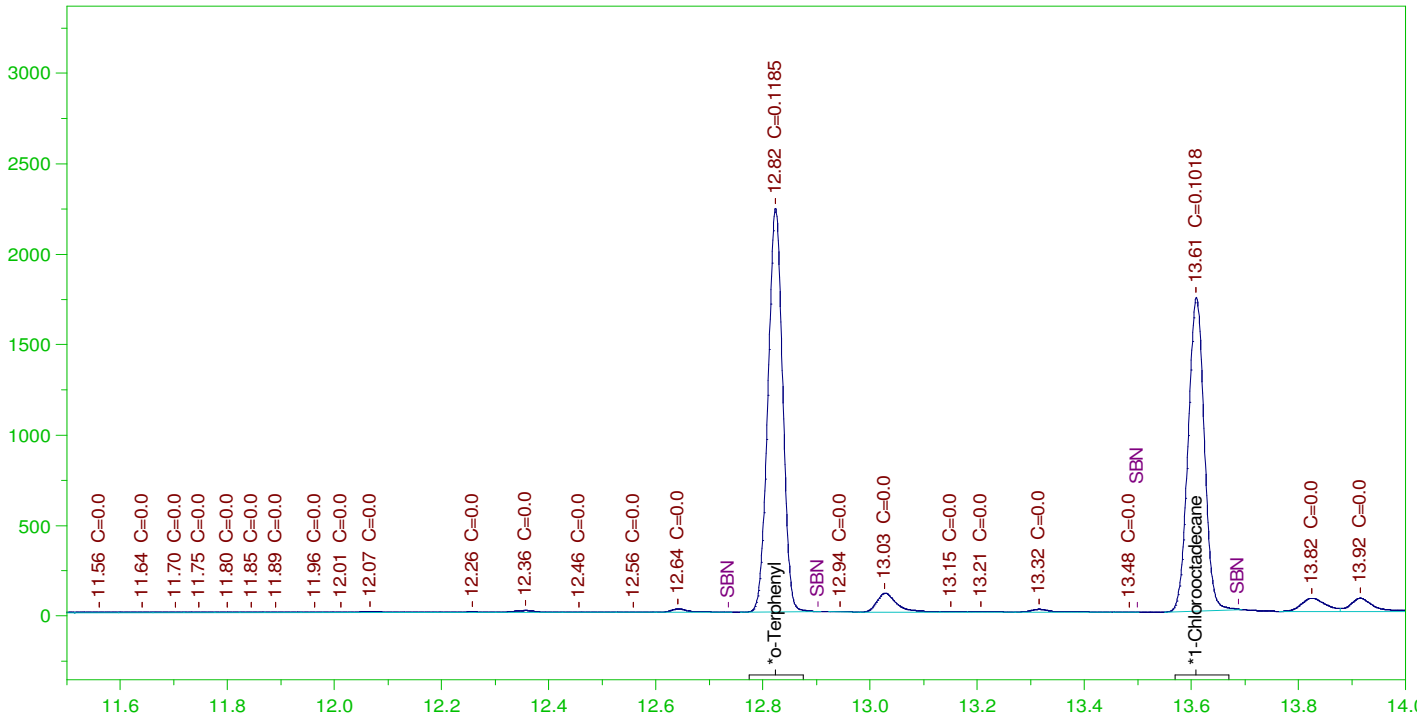


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-004A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0067.RAW
Date & Time Acquired: 10/6/2021 1:29:54 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .196 | .119 | 60.45 | - |
| *1-Chlorooctadecane | 13.609 | .196 | .102 | 51.91 | - |

DRO Area:2423874 DRO Amount: 8.067083E-02
TEH Area:4789012 TEH Amount: 0.1593868

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**ERH1763 (RHMW06)** Batch ID: 159988

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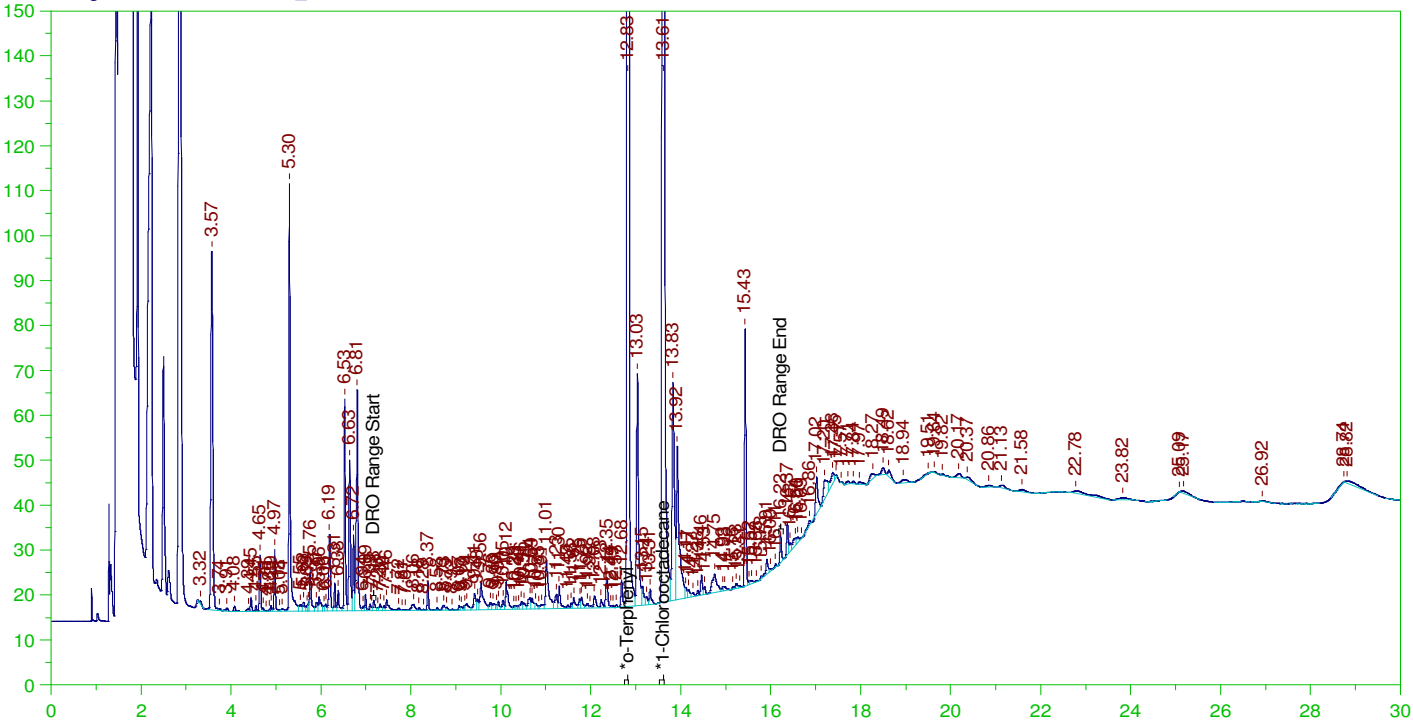


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-006A ;1004HP5 , $HC-8015-DRO-W, Need another RR
Raw File: G:\Org\HP5\DAT\HP5100421_b\1004HP5.0068.RAW
Date & Time Acquired: 10/6/2021 2:18:35 PM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.125 to 16.28

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.826 | .194 | .169 | 86.86 | - |
| *1-Chlorooctadecane | 13.611 | .194 | .131 | 67.55 | - |

DRO Area:1165653 DRO Amount: 3.841834E-02
TEH Area:2433223 TEH Amount: 8.019574E-02

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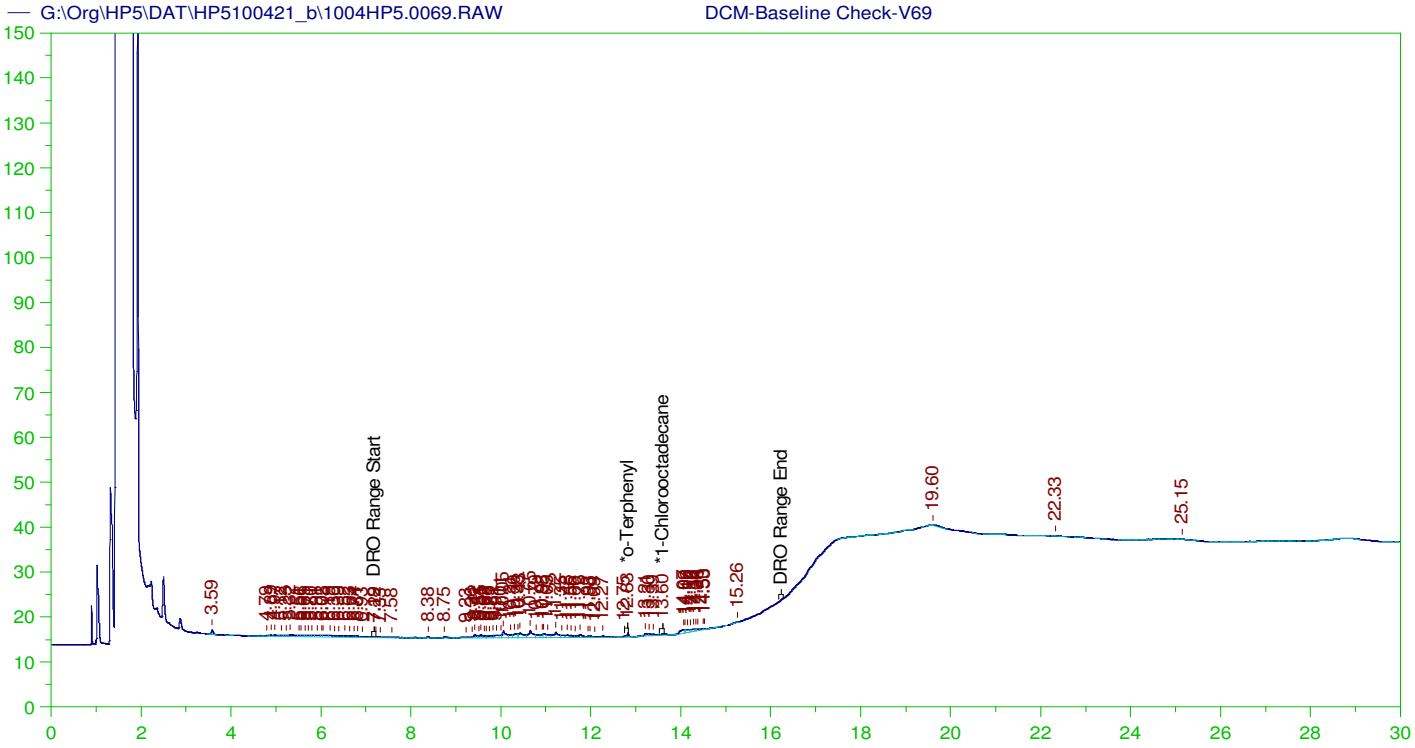


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V69
Raw File: G:\Org\HP5\DAT\HP5100421_b\1004HP5.0069.RAW
Date & Time Acquired: 10/6/2021 3:07:57 PM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.125 to 16.28

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.826 | 200. | .06 | .03 | - |
| *1-Chlorooctadecane | 13.6 | 200. | .055 | .03 | - |

DRO Area:135172.6 DRO Amount: 4.588758
TEH Area:184383.8 TEH Amount: 6.25935

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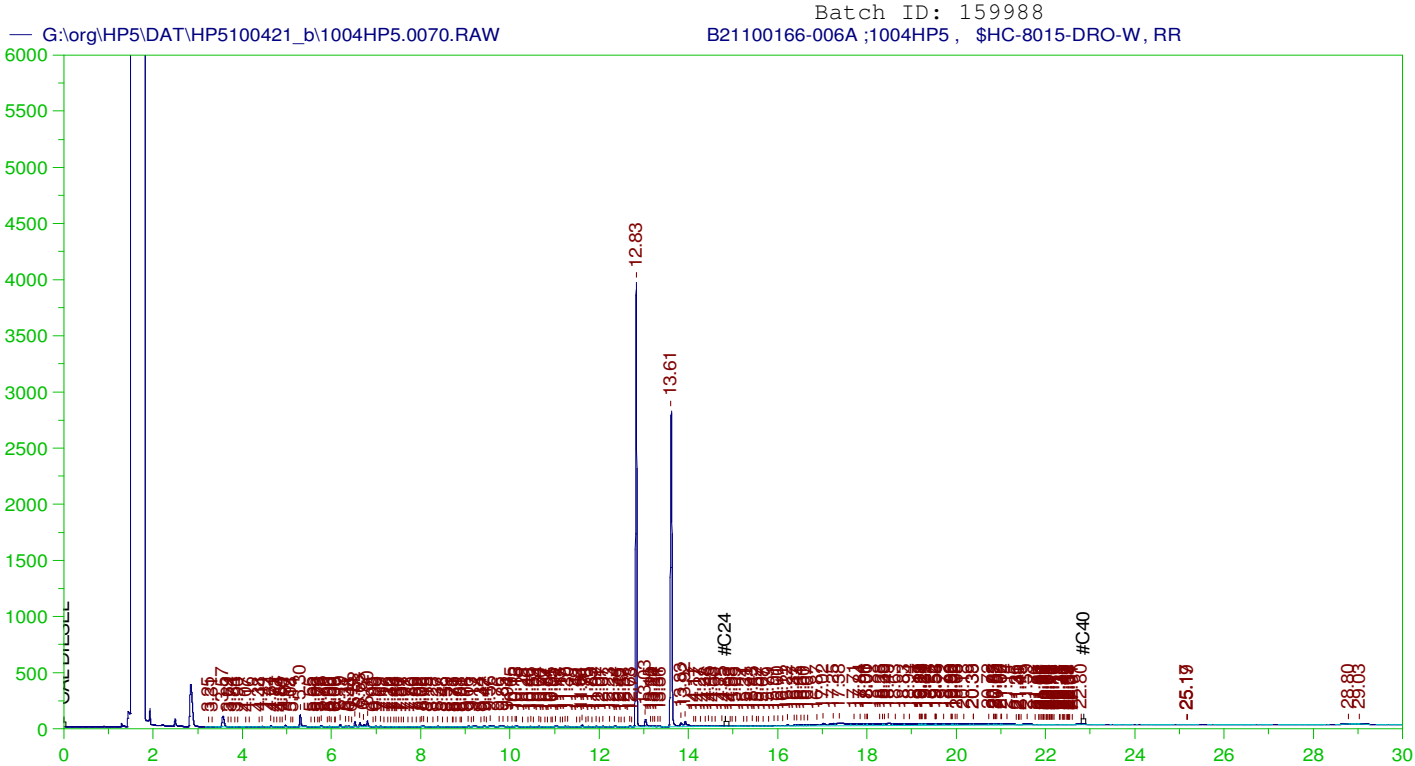
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0070.RAW
Date & Time Acquired: 10/6/2021 3:57:08 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-100470-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:4271924 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.1467346

AMN 10/17/2021

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**ERH1763 (RHMW06)** Batch ID: 159988

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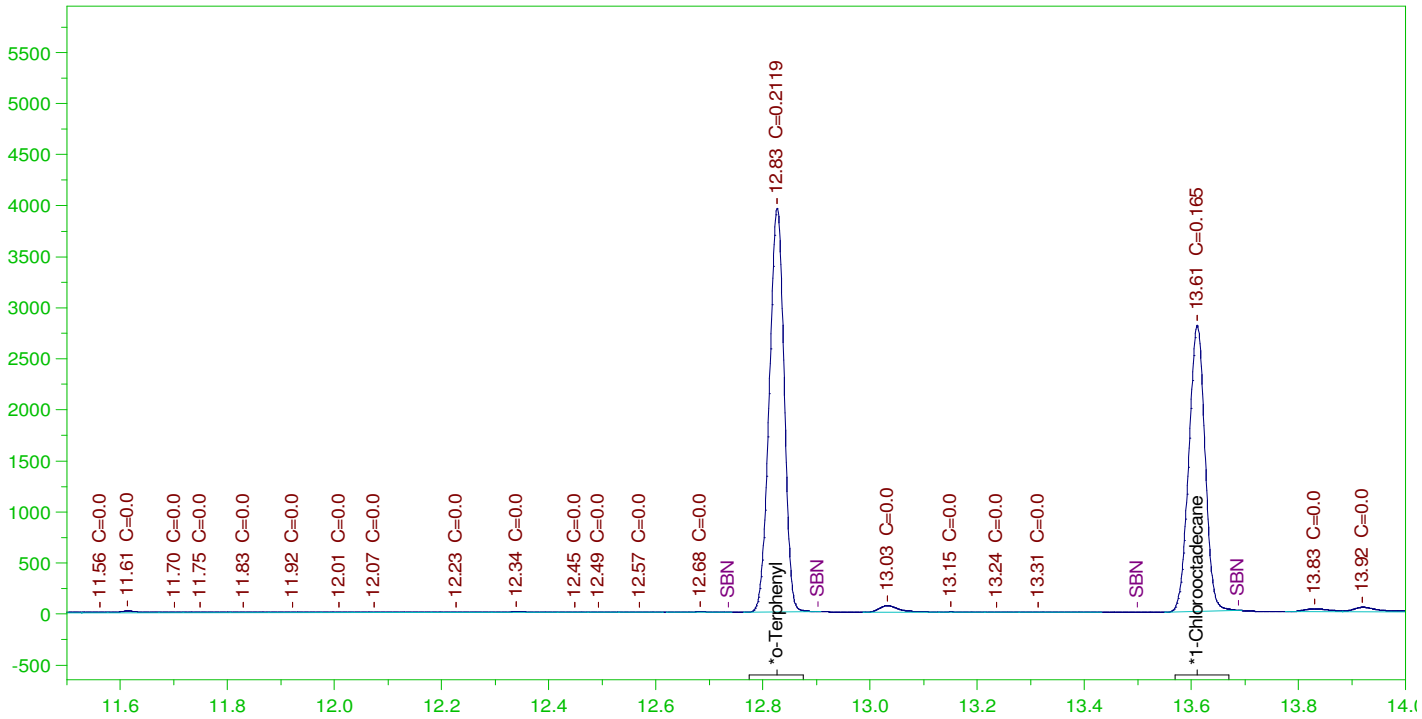



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0070.RAW
Date & Time Acquired: 10/6/2021 3:57:08 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

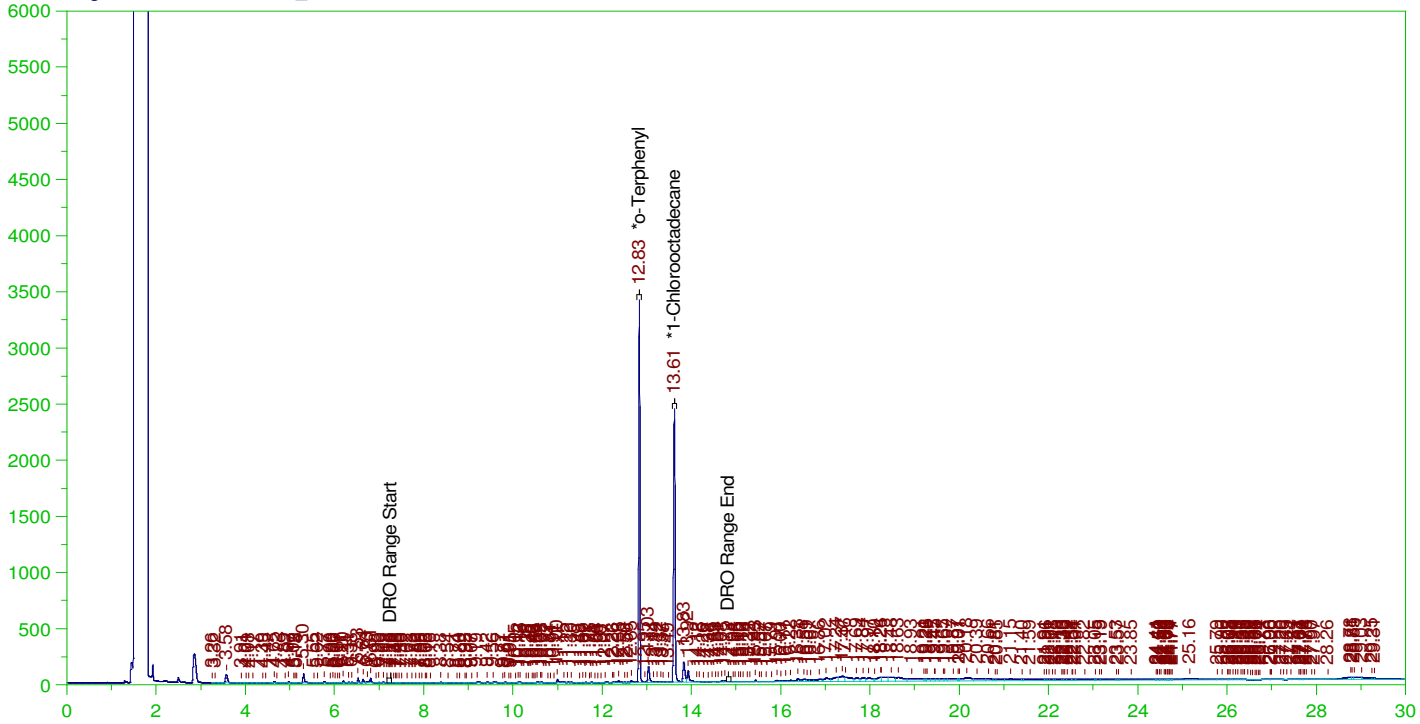
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.827 | .196 | .212 | 108.06 | - |
| *1-Chlorooctadecane | 13.611 | .196 | .165 | 84.13 | - |

DRO Area:1031903 DRO Amount: 3.434355E-02
TEH Area:3831723 TEH Amount: 0.1275265

G:\org\HP5\dat\HP5100421_b\Review\Og\070_B21100166-006A_DS_8015-HPa-L#.xls

**ERH1768 (RHMW16)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW B21100166-007A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-007A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW
Date & Time Acquired: 10/6/2021 4:45:57 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | .192 | .18 | 93.83 | - |
| *1-Chlorooctadecane | 13.613 | .192 | .144 | 74.73 | - |

DRO (C10-C24)Area:2226198 DRO (C10-C24)Amount: 7.266697E-02
TEH Area:1.524978E+07 TEH Amount: 0.4977794

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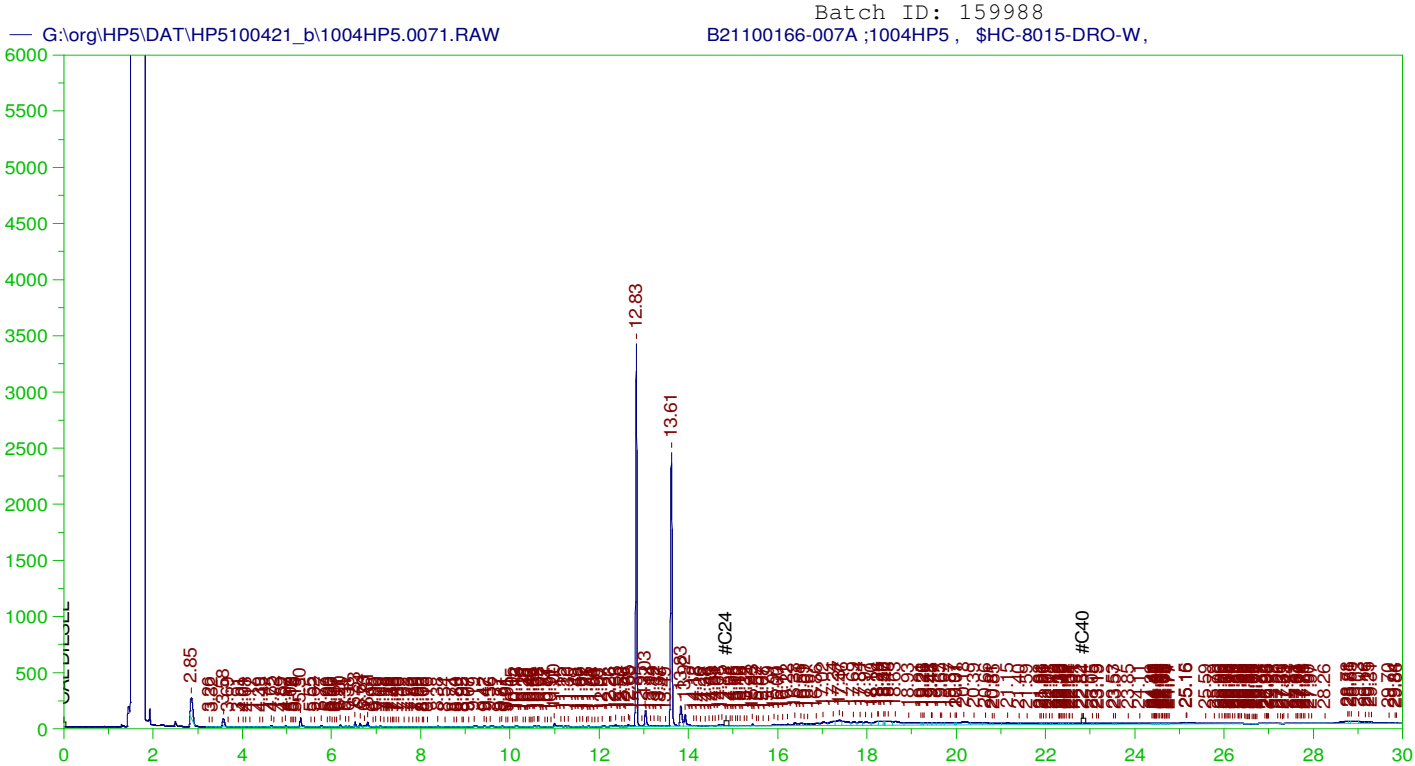
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-007A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW
Date & Time Acquired: 10/6/2021 4:45:57 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40) Area:9542584 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.3214712

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\071_B21100166-007A_D3_OIL-S-AHb-L%.xls

**ERH1768 (RHMW16)** Batch ID: 159988

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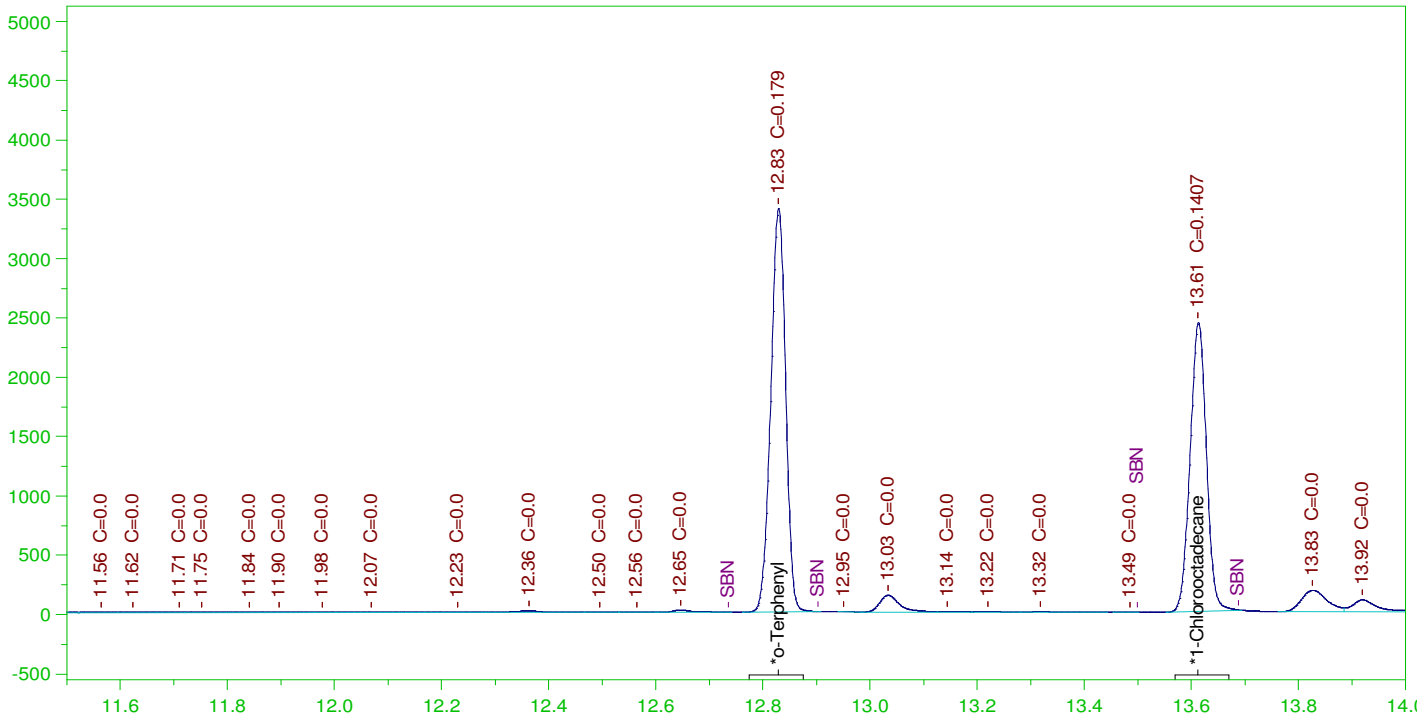


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-007A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW
Date & Time Acquired: 10/6/2021 4:45:57 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | .192 | .179 | 93.09 | - |
| *1-Chlorooctadecane | 13.613 | .192 | .141 | 73.18 | - |

DRO Area:2093301 DRO Amount: 6.832896E-02
TEH Area:4273724 TEH Amount: 0.1395018

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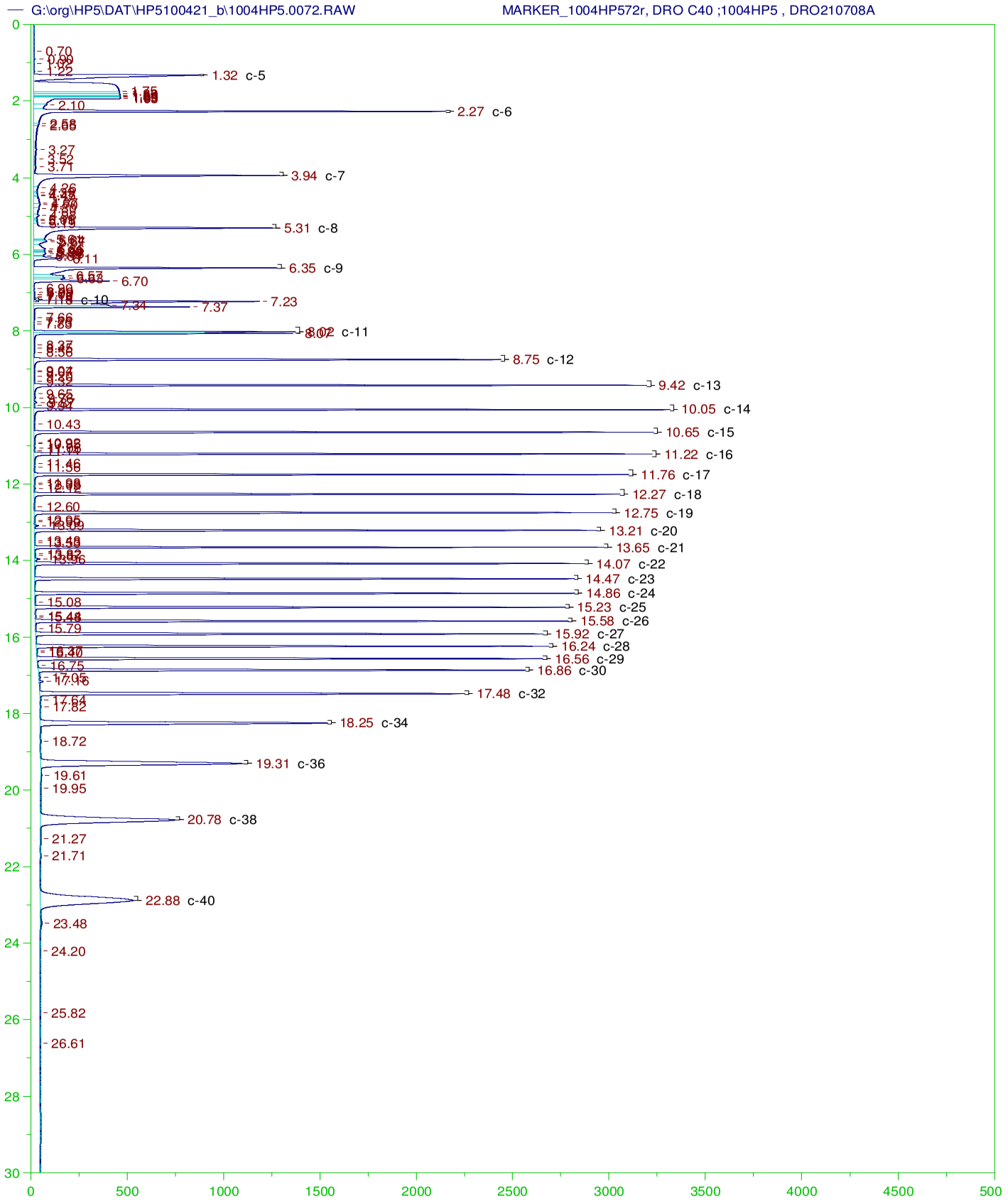
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MARKER_1004HP572r, DRO C40 ;1004HP5 , DRO210708A
1.32 c-5
2.27 c-6
3.94 c-7
5.31 c-8
6.35 c-9
7.23
8.75 c-12
9.42 c-13
10.05 c-14
10.65 c-15
11.22 c-16
11.76 c-17
12.27 c-18
12.75 c-19
13.21 c-20
13.65 c-21
14.07 c-22
14.47 c-23
14.86 c-24
15.23 c-25
15.58 c-26
15.92 c-27
16.24 c-28
16.56 c-29
16.86 c-30
17.48 c-32
18.25 c-34
19.31 c-36
20.78 c-38
22.88 c-40
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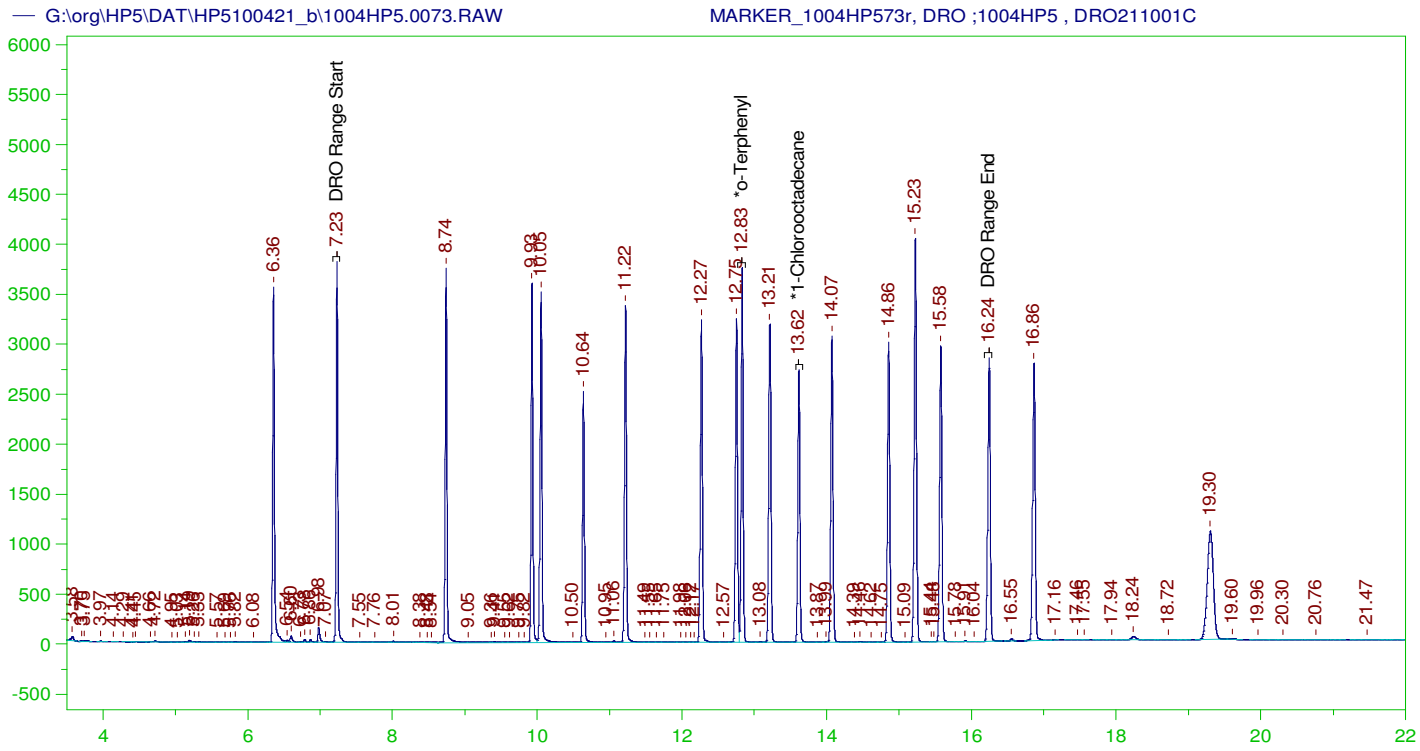



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

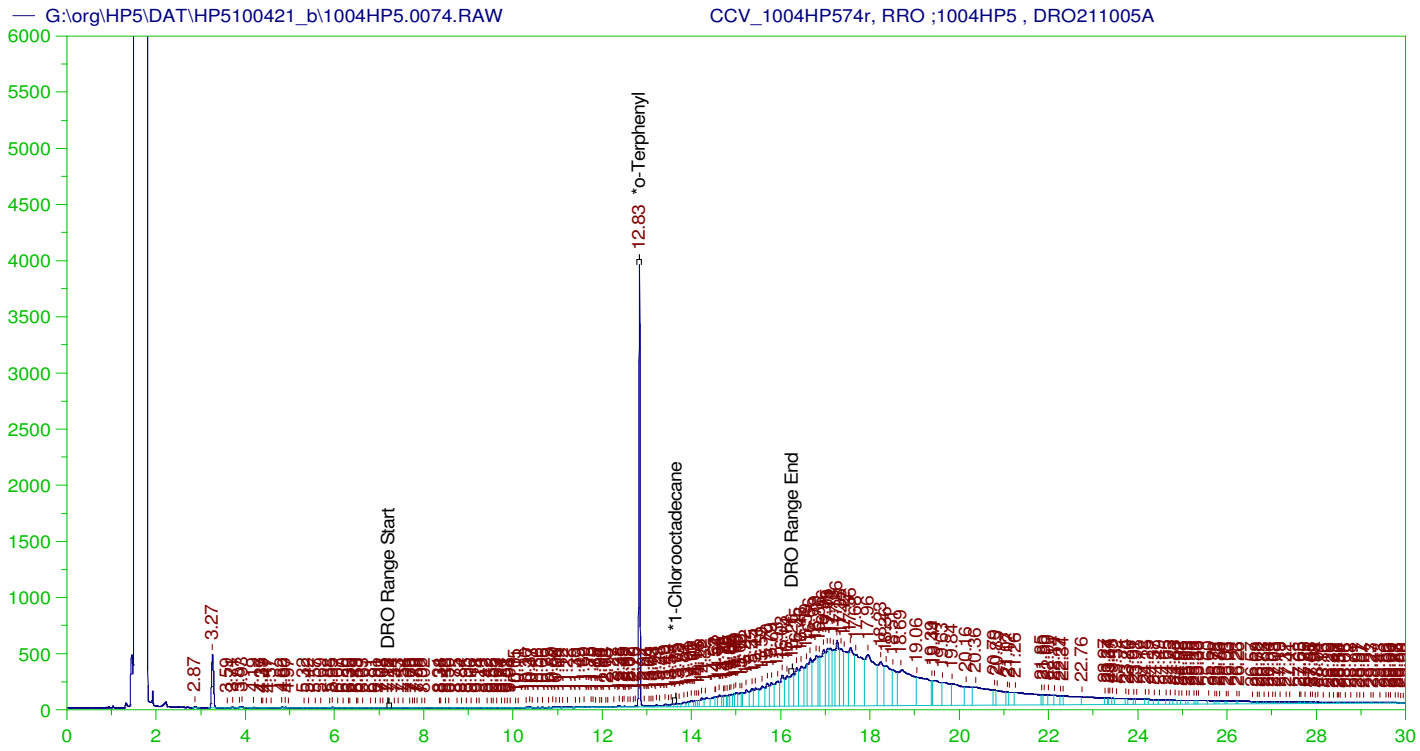
Sample Name: MARKER_1004HP573r, DRO ;1004HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0073.RAW
Date & Time Acquired: 10/6/2021 6:22:56 PM
Method File: G:\Org\HP5\Methods\DC_8015-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | .2 | .204 | 101.75 | - |
| *1-Chlorooctadecane | 13.615 | .2 | .164 | 82.03 | - |

DRO Area:9.257196E+07 DRO Amount: 3.142578
TEH Area:1.185706E+08 TEH Amount: 4.025165

G:\org\HP5\dat\HP5100421_b\Review\Og\073_MARKER_1004HP573r_DC_8015-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP574r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0074.RAW
Date & Time Acquired: 10/6/2021 7:10:47 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AHb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | 200. | 215.935 | 107.97 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 3.796 | 1.9 | - |

DRO Area:2.156024E+07 DRO Amount: 755.3757
TEH (Oil Range)Area:1.303756E+08 TEH (Oil Range) Amount: 4567.784

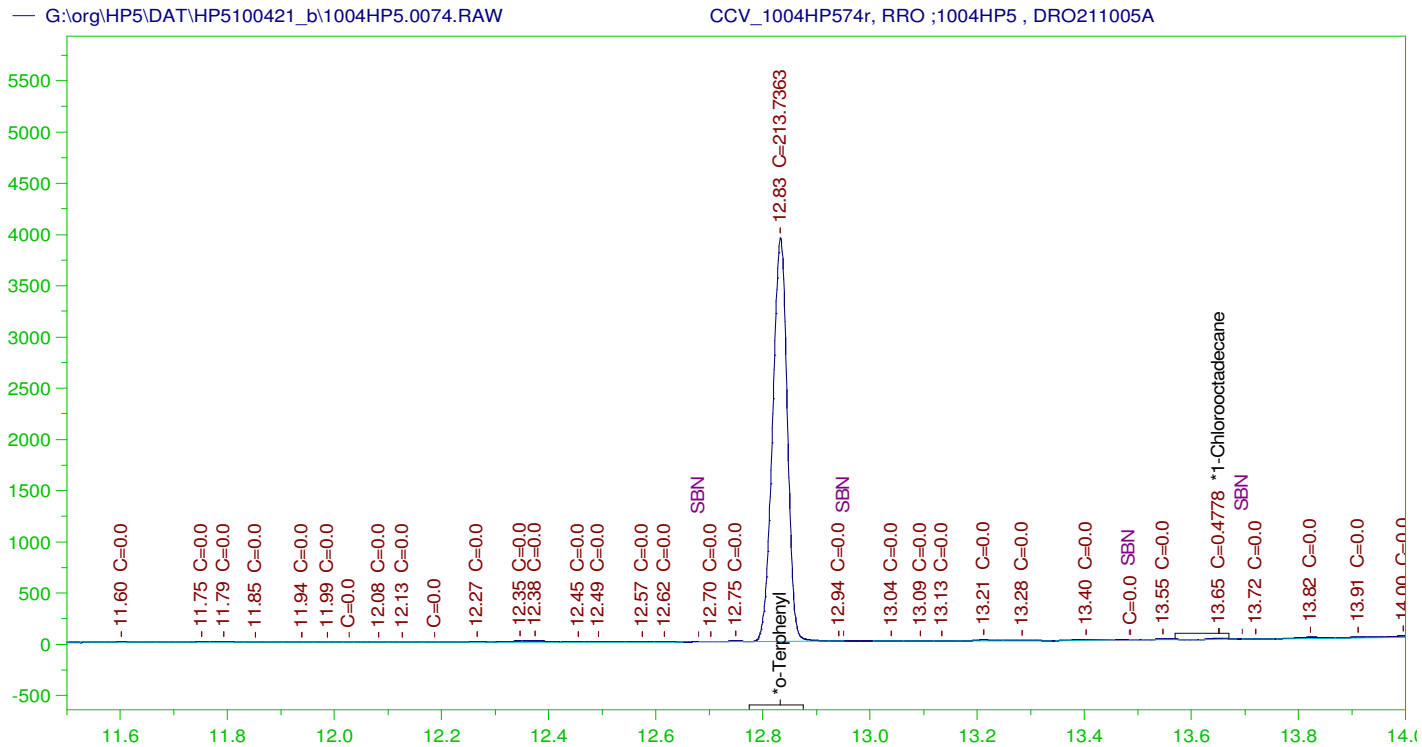
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0074.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4567.78 | 91.36 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | 200. | 215.935 | 107.97 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 3.796 | 1.9 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\074_CCV_1004HP574r_DC_OIL-AHb-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP574r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0074.RAW
Date & Time Acquired: 10/6/2021 7:10:47 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | 200. | 213.736 | 106.87 | - |
| *1-Chlorooctadecane | 13.652 | 200. | .478 | .24 | - |

DRO Area:1505231 DRO Amount: 52.73666
TEH Area:3196590 TEH Amount: 111.9944

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0074.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 111.99 | 2.24 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | 200. | 213.736 | 106.87 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | .478 | .24 | 85-115 |

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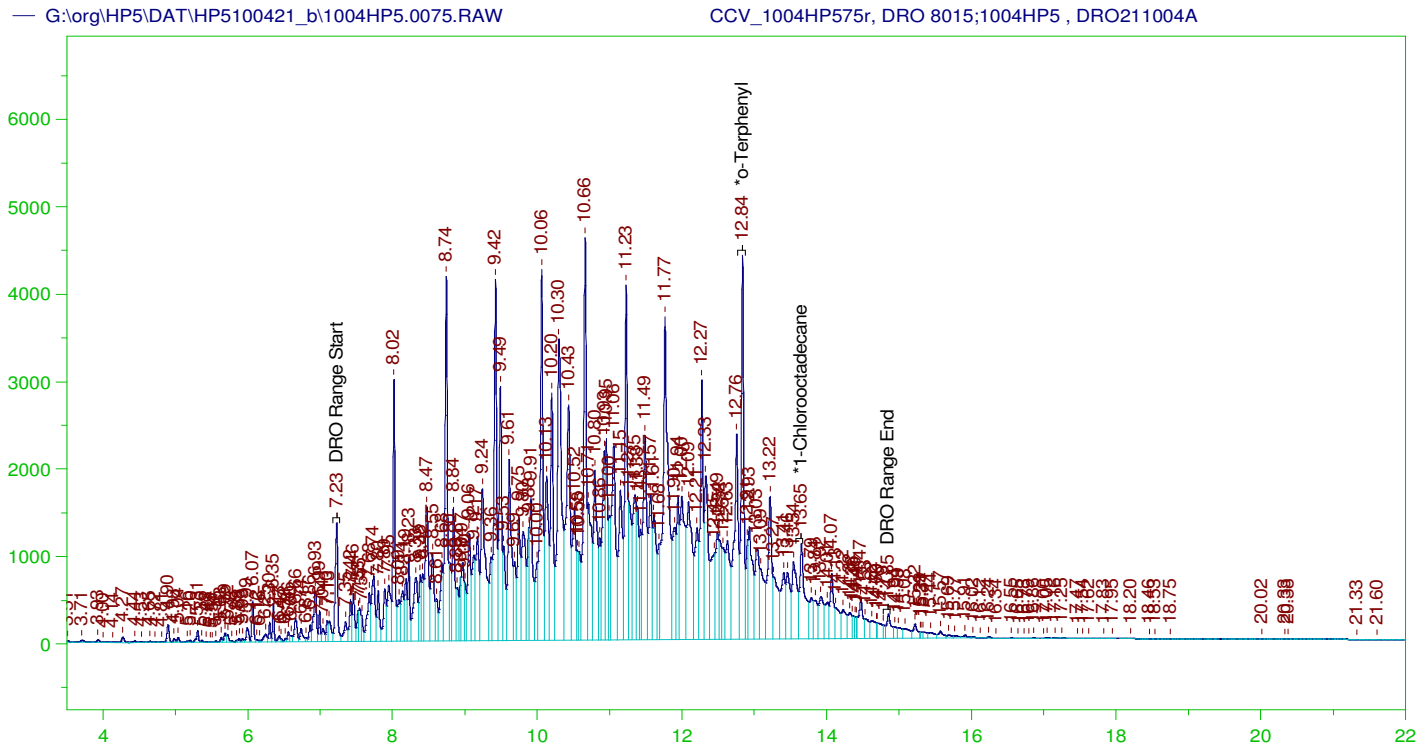


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP575r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0075.RAW
Date & Time Acquired: 10/6/2021 7:58:26 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 316.85 | 158.42 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 153.748 | 76.87 | - |

DRO (C10-C24)Area:4.500669E+08 DRO (C10-C24) Amount: 15278.6
TEH Area:4.654696E+08 TEH Amount: 15801.49

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0075.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15801.49 | 105.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 316.85 | 158.42 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 153.748 | 76.87 | 85-115 |

AMN 10/17/2021

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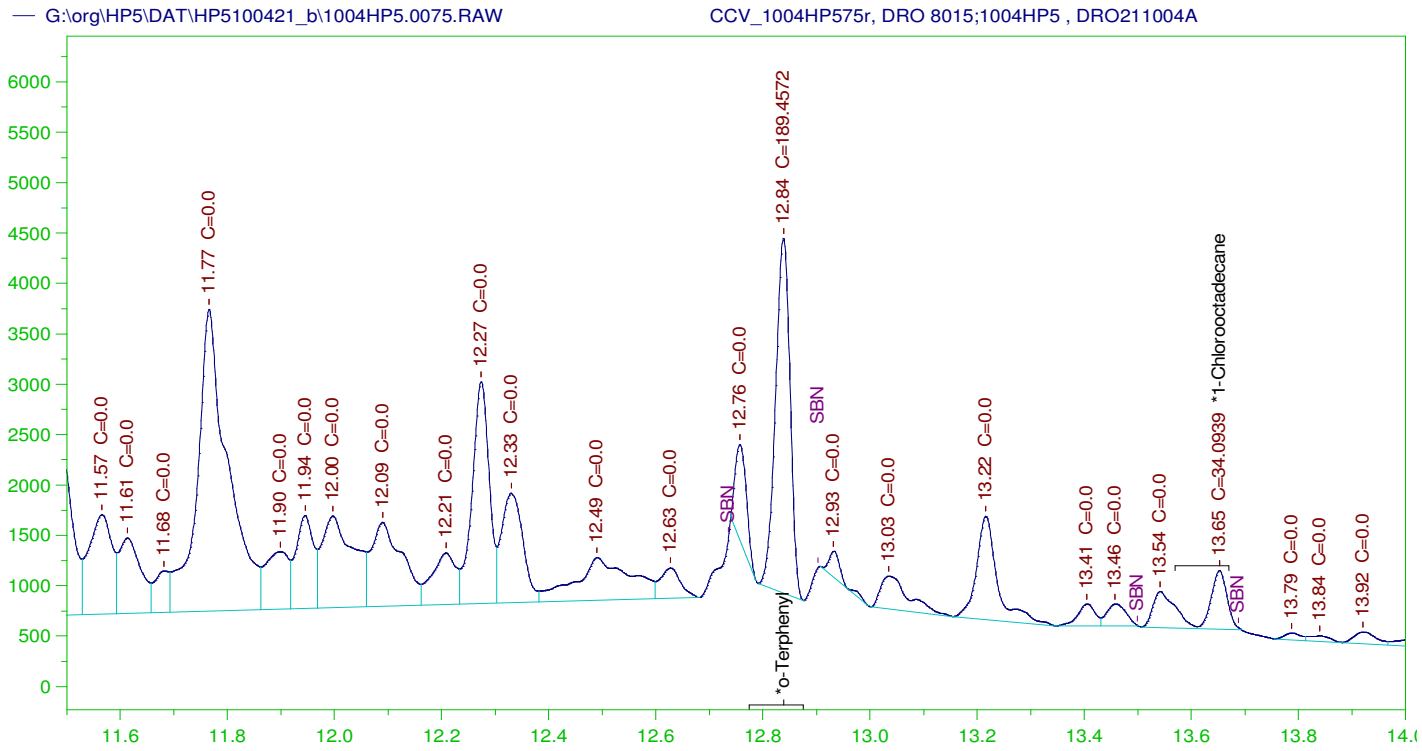


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP575r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0075.RAW
Date & Time Acquired: 10/6/2021 7:58:26 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 189.457 | 94.73 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 34.094 | 17.05 | - |

DRO Area:2.524923E+08 DRO Amount: 8571.459
TEH Area:2.624669E+08 TEH Amount: 8910.071

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0075.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8910.07 | 59.4 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 189.457 | 94.73 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 34.094 | 17.05 | 85-115 |

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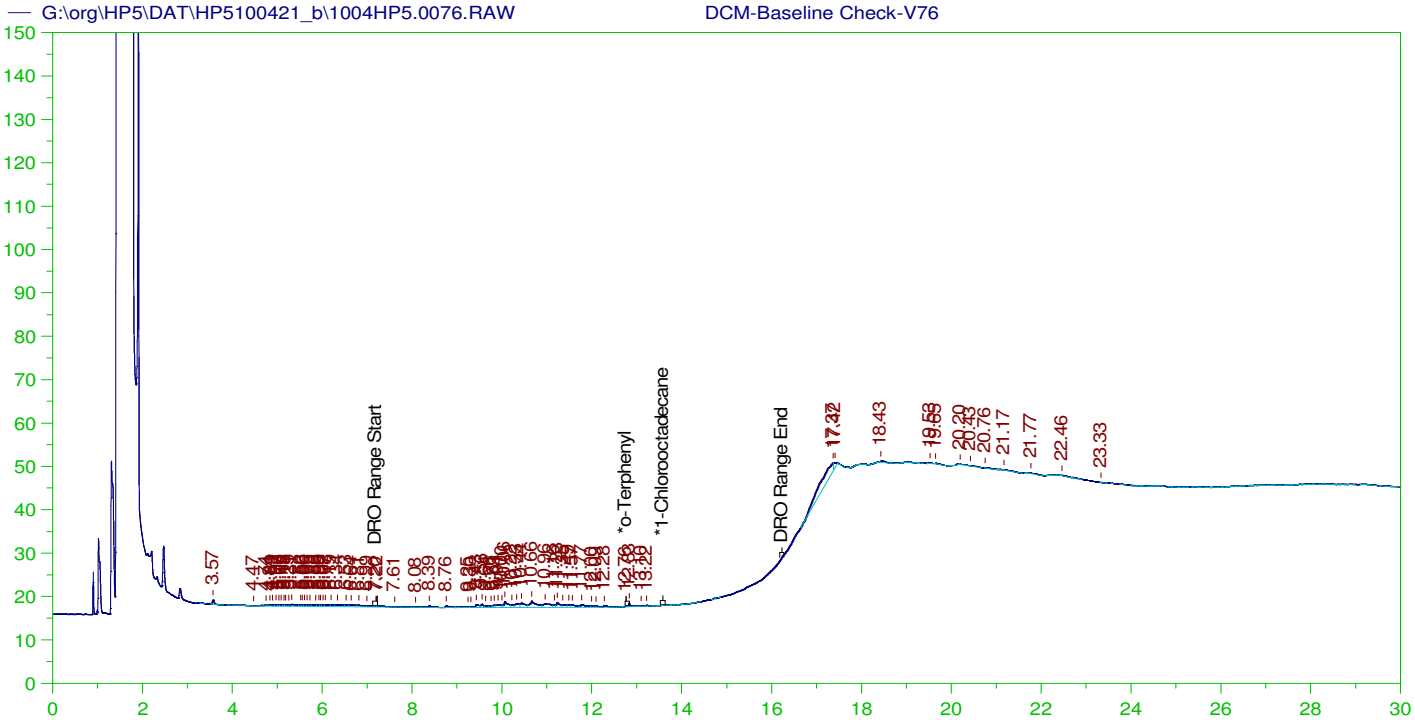


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V76
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0076.RAW
Date & Time Acquired: 10/6/2021 8:49:22 PM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.125 to 16.28

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.762 | 200. | .019 | .01 | - |
| *1-Chlorooctadecane | 29.878 | 200. | . | . | - |

DRO Area:112860.4 DRO Amount: 3.831319
TEH Area:272395.5 TEH Amount: 9.247122

G:\org\HP5\dat\HP5100421_b\Review\Og\076_DCM-Baseline Chec_DR_8015-HP-LEXP.xls

**ERH1770 (OWDFMW01)** Batch ID: 159988

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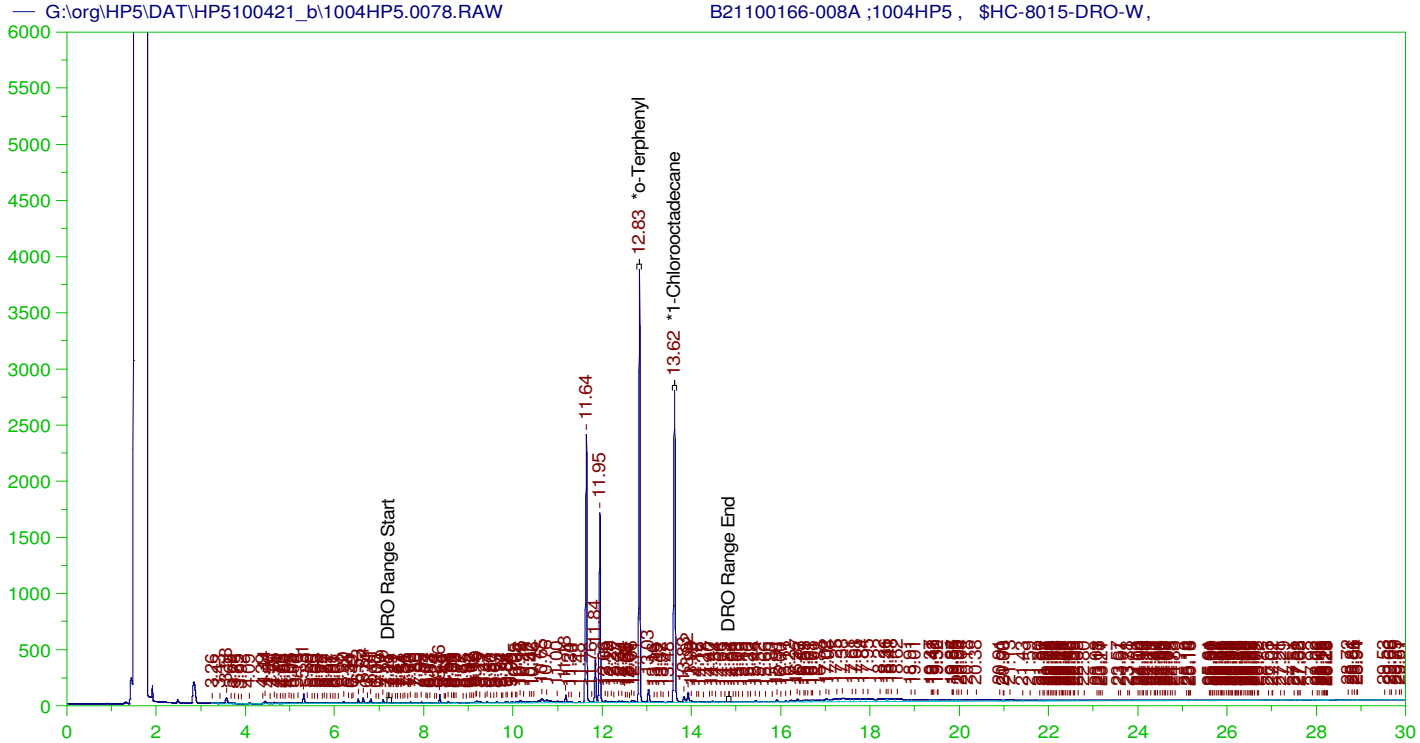



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-008A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW
Date & Time Acquired: 10/6/2021 10:30:44 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

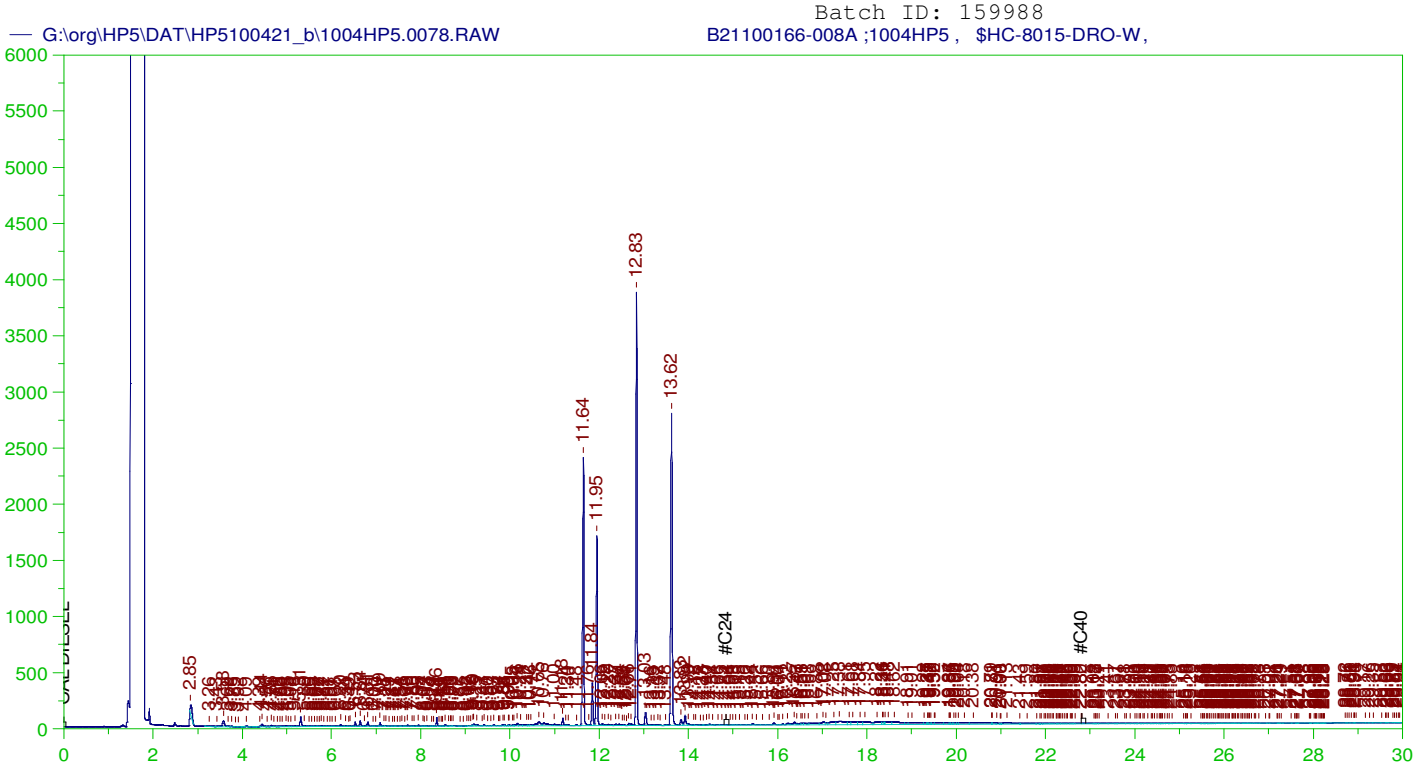
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | .19 | .2 | 105.54 | - |
| *1-Chlorooctadecane | 13.616 | .19 | .161 | 84.87 | - |

DRO (C10-C24)Area:1.295337E+07 DRO (C10-C24)Amount: 0.4168086
TEH Area:2.275698E+07 TEH Amount: 0.7322657

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\078_B21100166-008A_D3_8015-C24-HPa-L%.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-008A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW
Date & Time Acquired: 10/6/2021 10:30:44 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:7340821 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.2437819

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\078_B21100166-008A_D3_OIL-S-AHb-L%.xls

**ERH1770 (OWDFMW01)** Batch ID: 159988

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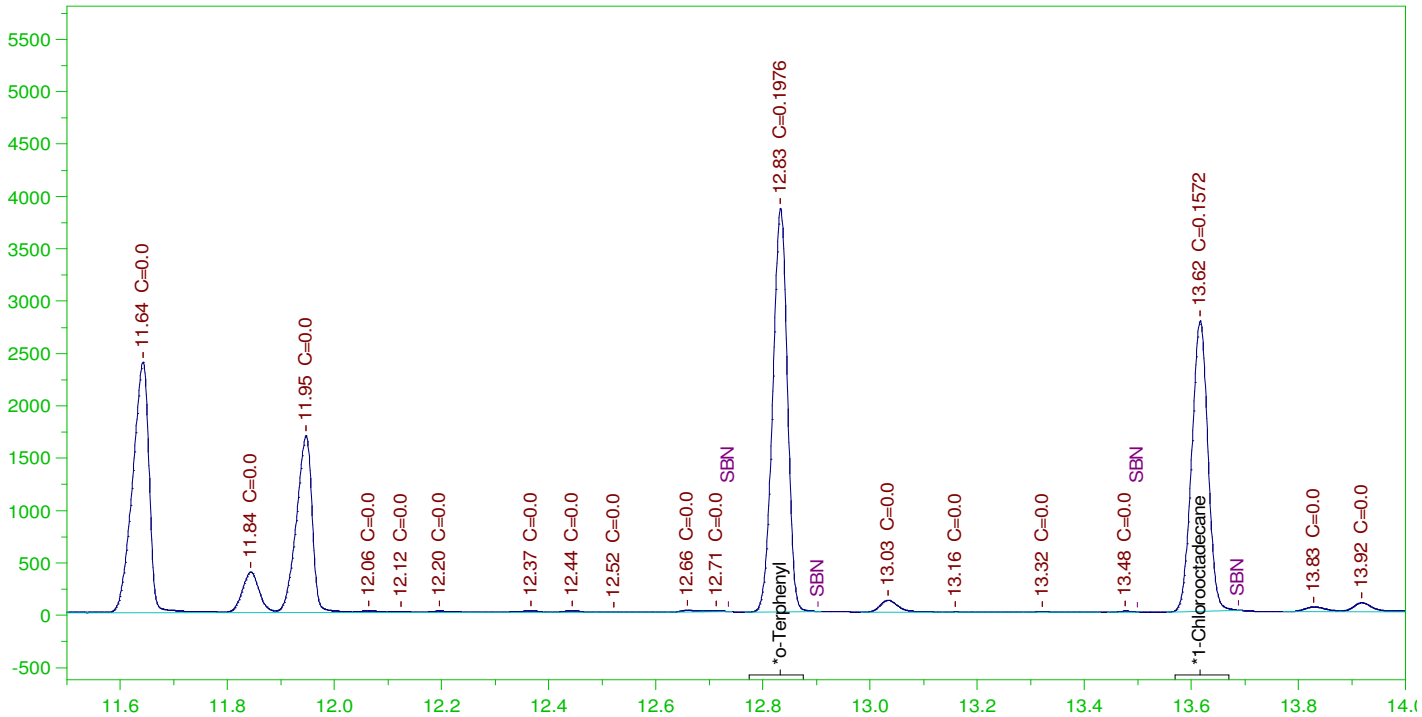


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-008A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW
Date & Time Acquired: 10/6/2021 10:30:44 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | .19 | .198 | 104.23 | - |
| *1-Chlorooctadecane | 13.616 | .19 | .157 | 82.94 | - |

DRO Area:1.247965E+07 DRO Amount: 0.4015658
TEH Area:1.440706E+07 TEH Amount: 0.4635853

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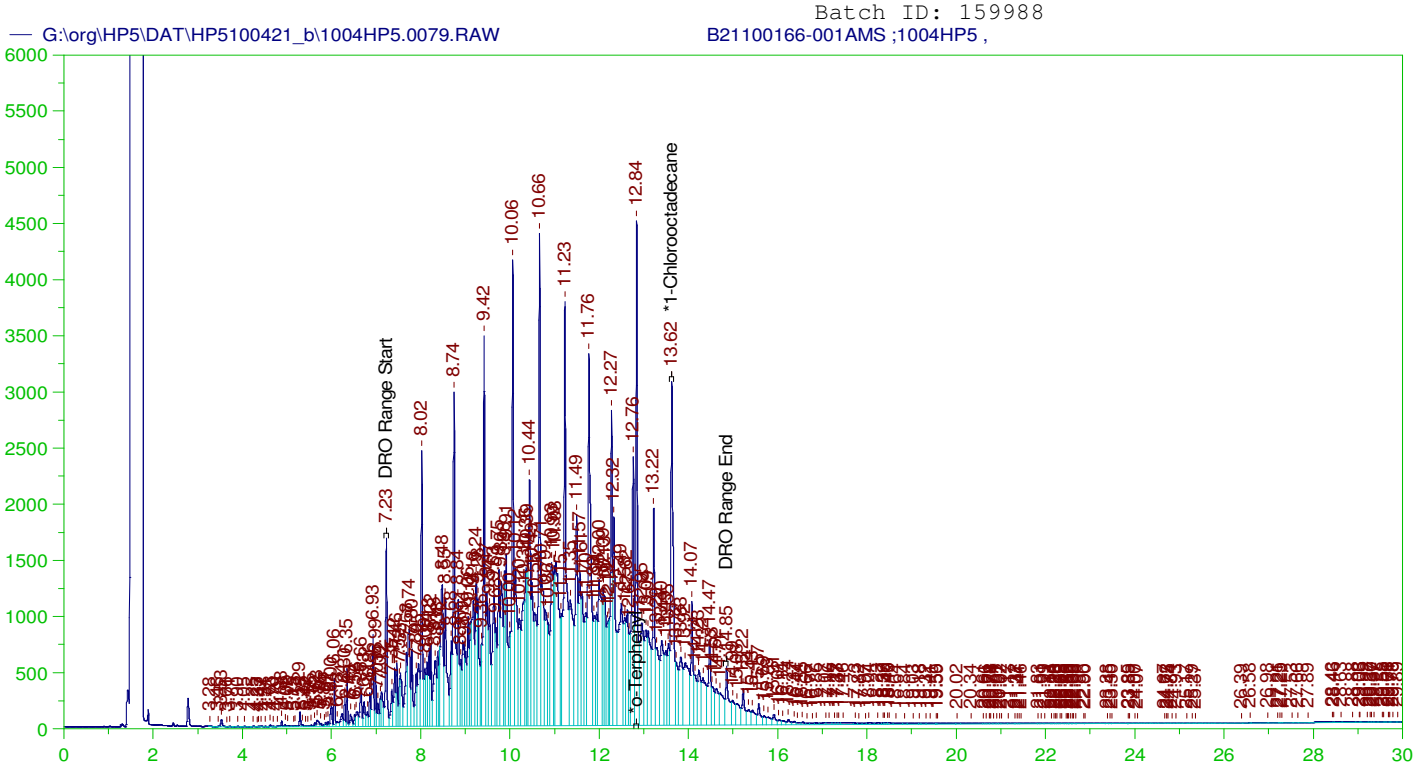
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMS ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0079.RAW
Date & Time Acquired: 10/6/2021 11:22:01 PM
Method File: G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.837 | .392 | .651 | 166.04 | - |
| *1-Chlorooctadecane | 13.621 | .392 | .649 | 165.44 | - |

DRO (C10-C24)Area:3.986681E+08 DRO (C10-C24)Amount: 26.53676
TEH Area:4.245689E+08 TEH Amount: 28.26081

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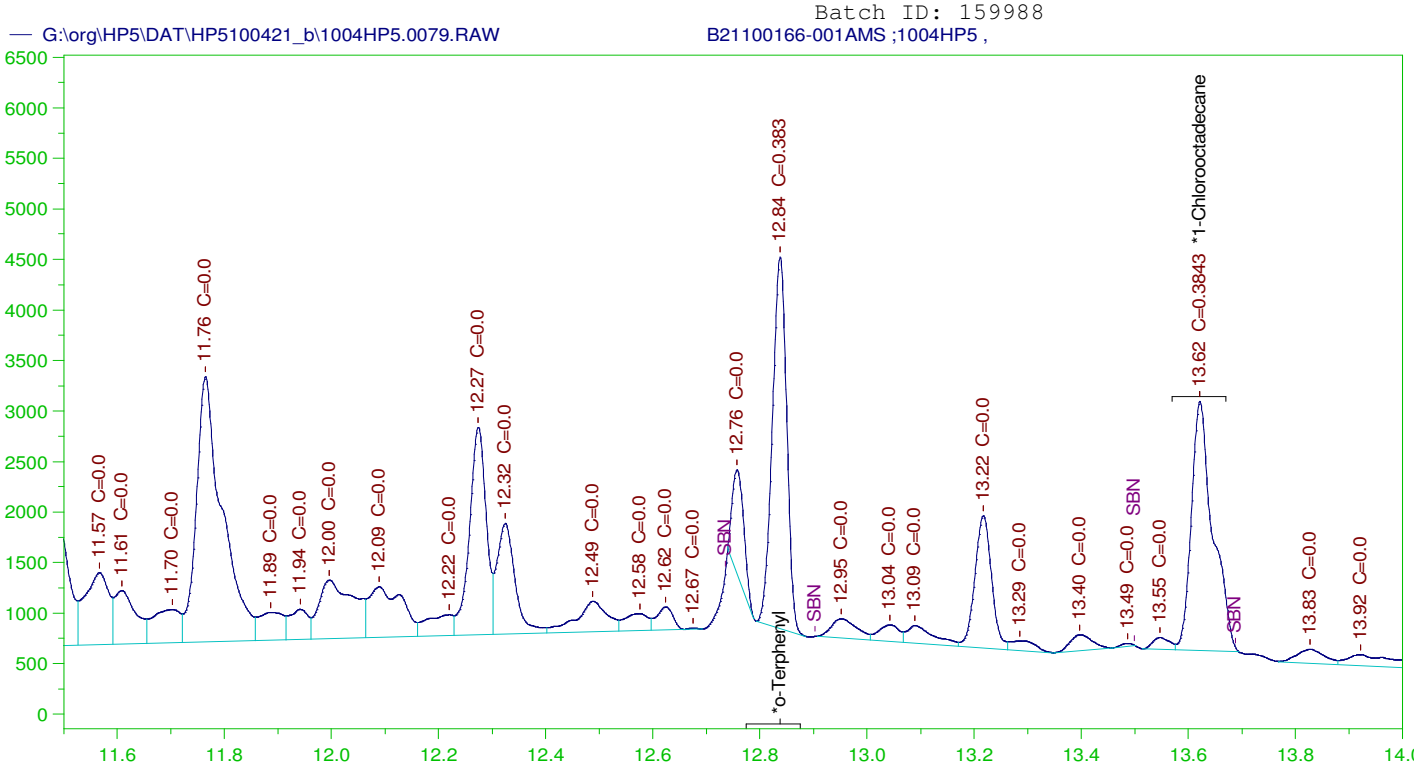
G:\org\HP5\dat\HP5100421_b\Review\Og\079_B21100166-001AMS_D3_8015-10079-C24-HPa-L%.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

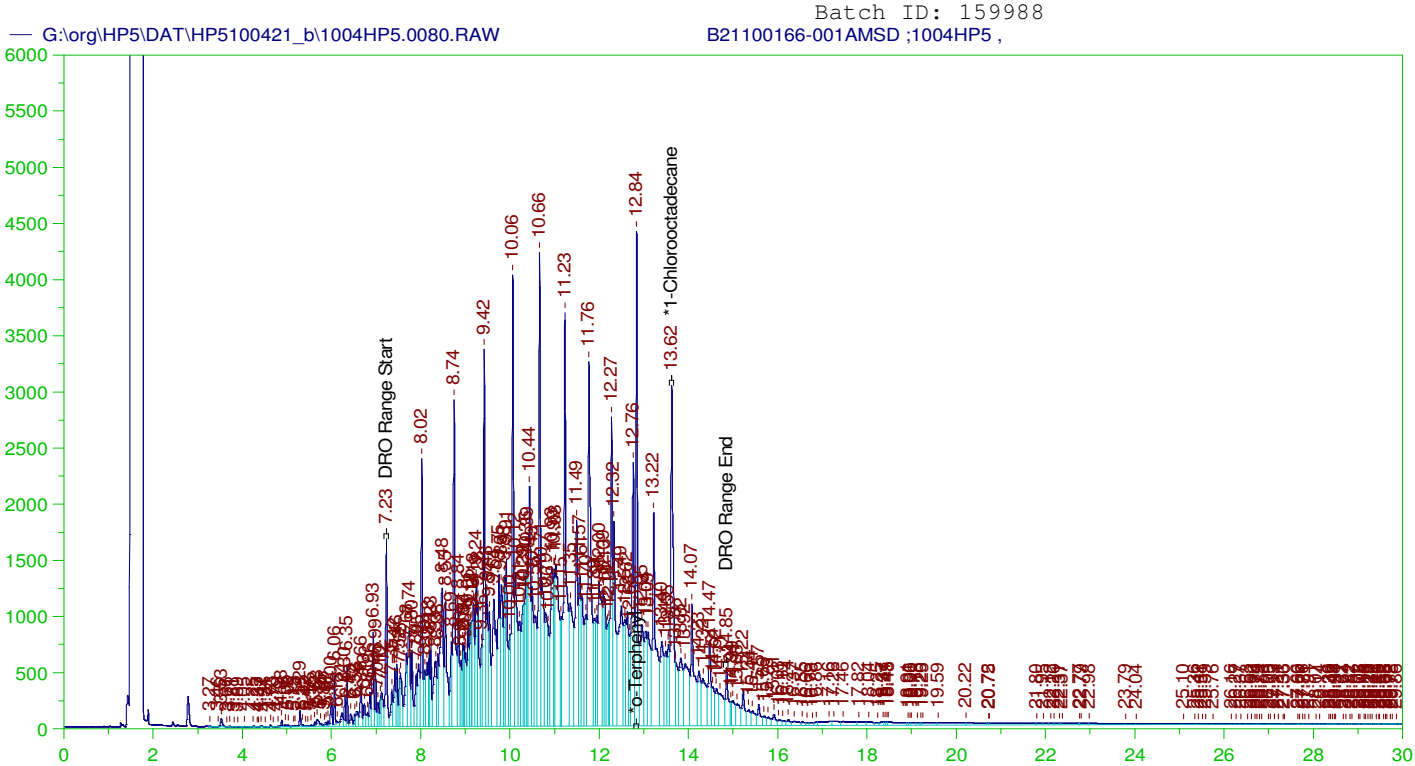
Sample Name: B21100166-001AMS ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0079.RAW
Date & Time Acquired: 10/6/2021 11:22:01 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.837 | .392 | .383 | 97.66 | - |
| *1-Chlorooctadecane | 13.621 | .392 | .384 | 98. | - |

DRO Area:1.96565E+08 DRO Amount: 13.08406
TEH Area:2.082249E+08 TEH Amount: 13.86019

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMSD ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0080.RAW
Date & Time Acquired: 10/7/2021 12:12:09 AM
Method File: G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

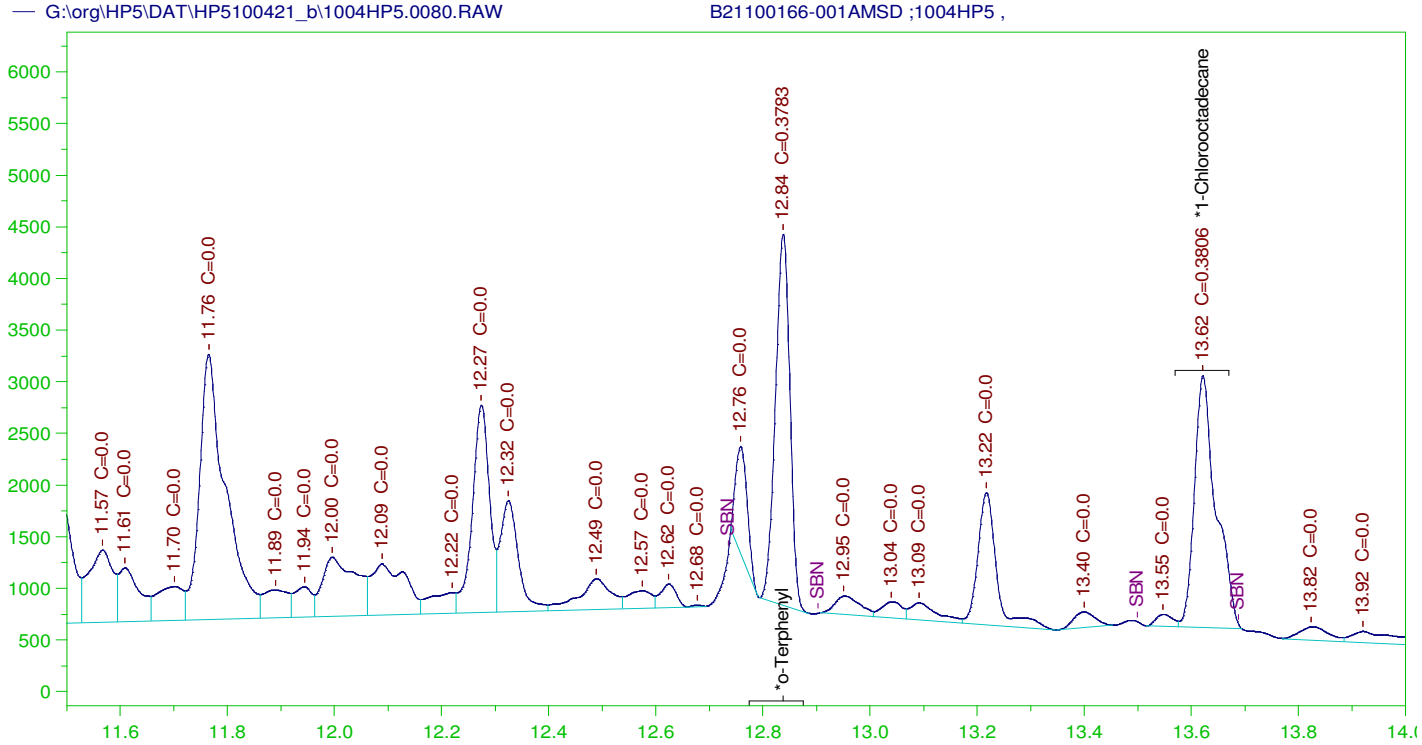
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | .392 | .647 | 164.98 | - |
| *1-Chlorooctadecane | 13.621 | .392 | .645 | 164.37 | - |

DRO (C10-C24)Area:3.93064E+08 DRO (C10-C24)Amount: 26.16373
TEH Area:4.271313E+08 TEH Amount: 28.43137

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\080_B21100166-001AMSD_D3_8015-10079-C24-HPa-L%.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMSD ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0080.RAW
Date & Time Acquired: 10/7/2021 12:12:09 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | .392 | .378 | 96.46 | - |
| *1-Chlorooctadecane | 13.621 | .392 | .381 | 97.05 | - |

DRO Area:1.928768E+08 DRO Amount: 12.83856
TEH Area:2.052058E+08 TEH Amount: 13.65923

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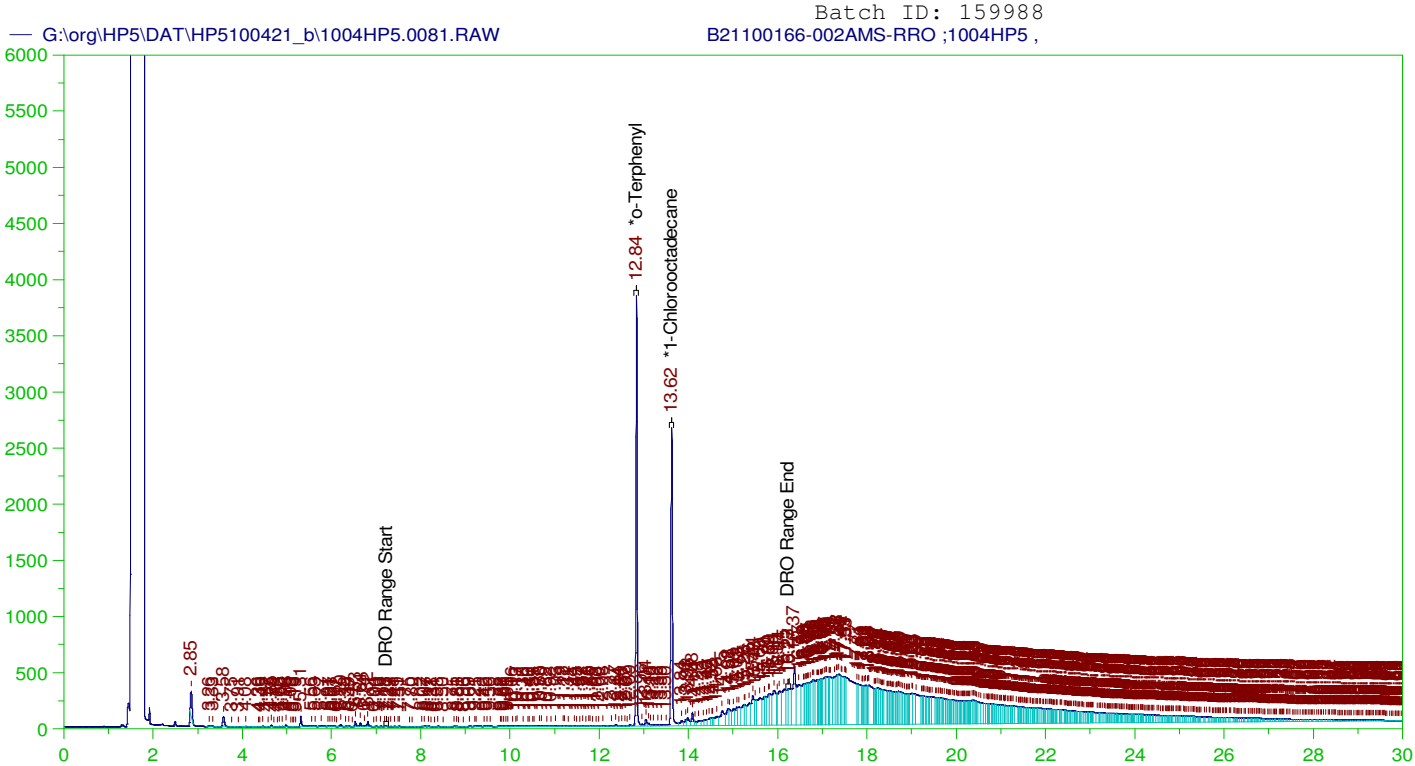
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMS-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0081.RAW
Date & Time Acquired: 10/7/2021 1:04:52 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.835 | .381 | .407 | 106.96 | - |
| *1-Chlorooctadecane | 13.62 | .381 | .324 | 85.11 | - |

DRO Area:2.506631E+07 DRO Amount: 1.672786
TEH (Oil Range)Area:1.411963E+08 TEH (Oil Range)Amount: 9.422656

AMN 10/17/2021

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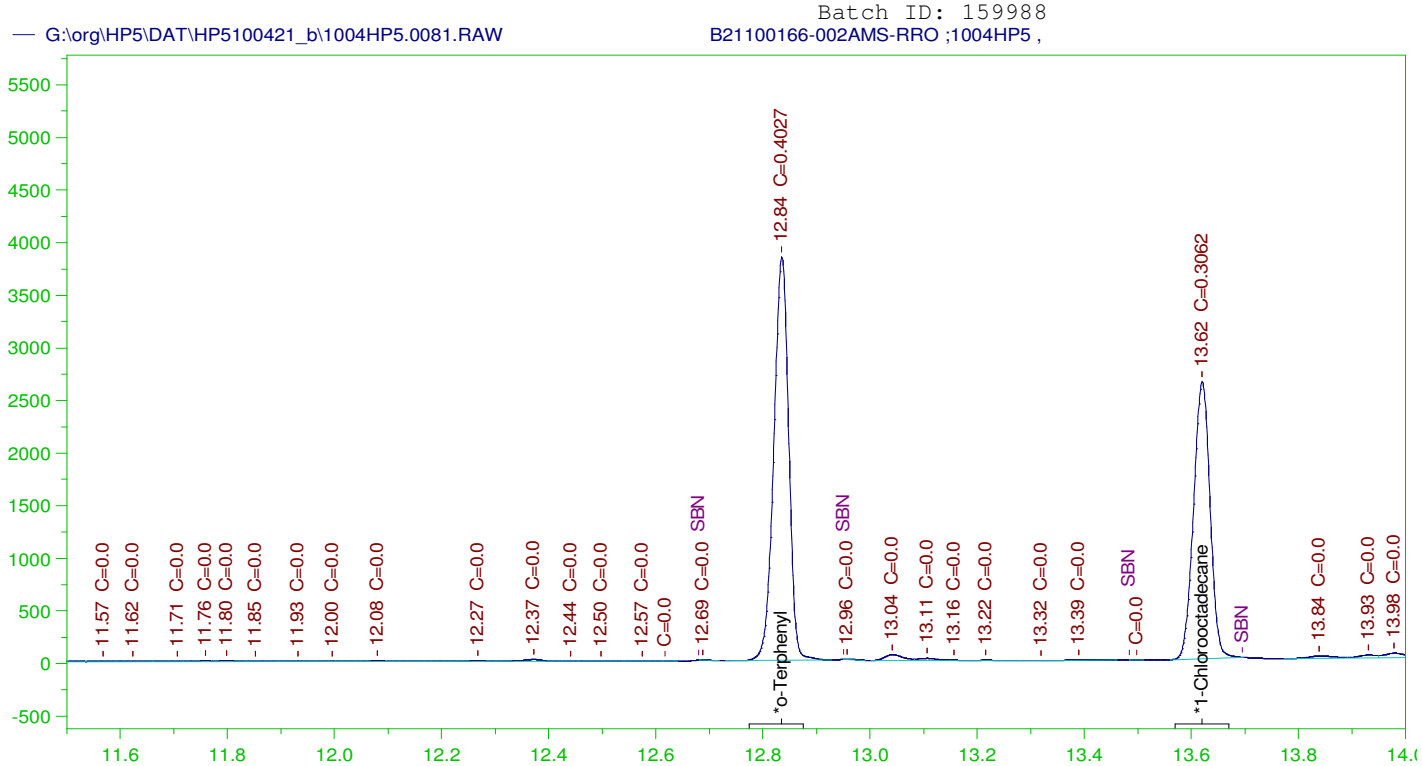
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMS-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0081.RAW
Date & Time Acquired: 10/7/2021 1:04:52 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.835 | .381 | .403 | 105.72 | - |
| *1-Chlorooctadecane | 13.62 | .381 | .306 | 80.38 | - |

DRO Area:2375563 DRO Amount: 0.1585319
TEH Area:4557417 TEH Amount: 0.3041367

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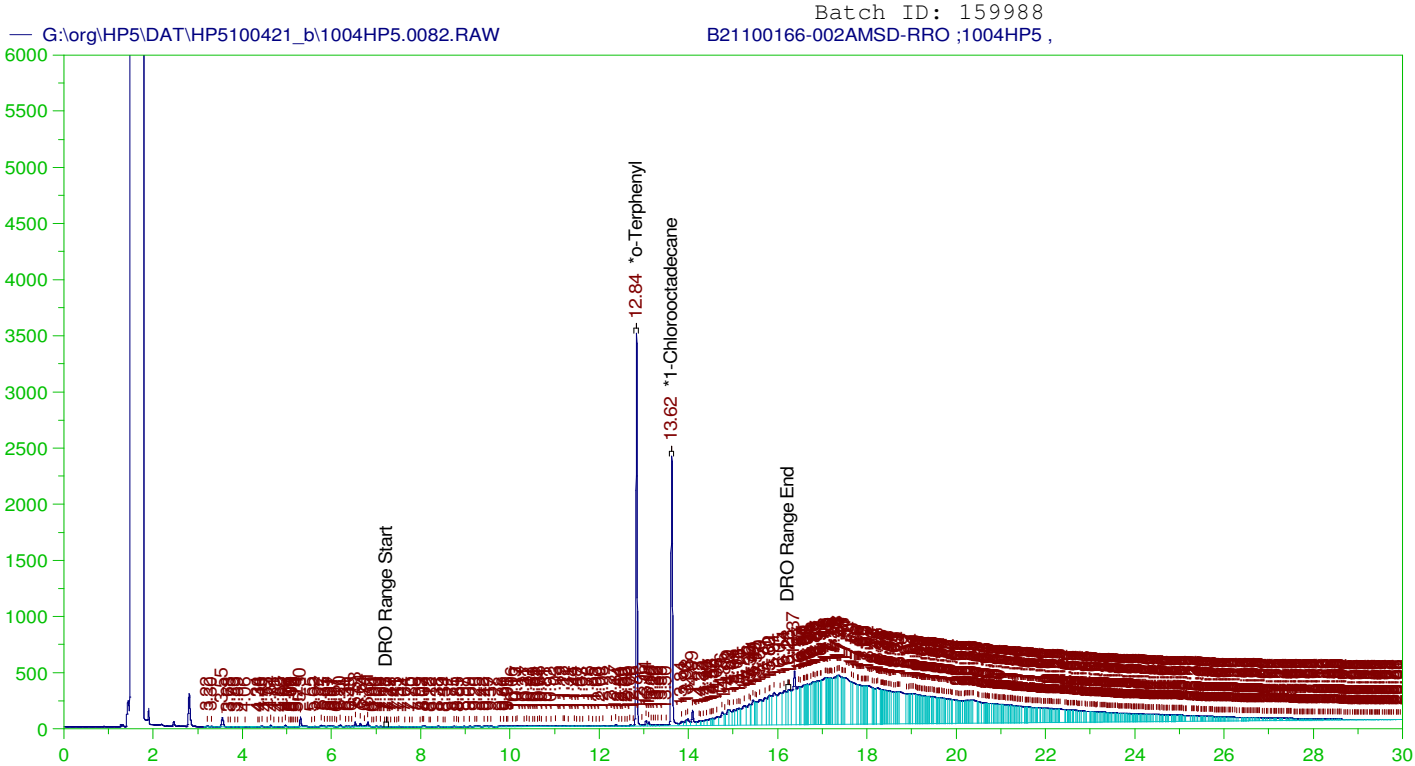
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMSD-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0082.RAW
Date & Time Acquired: 10/7/2021 1:56:56 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | .381 | .366 | 96.19 | - |
| *1-Chlorooctadecane | 13.621 | .381 | .29 | 76.15 | - |

DRO Area:2.358279E+07 DRO Amount: 1.573784
TEH (Oil Range)Area:1.377793E+08 TEH (Oil Range)Amount: 9.194623

AMN 10/17/2021

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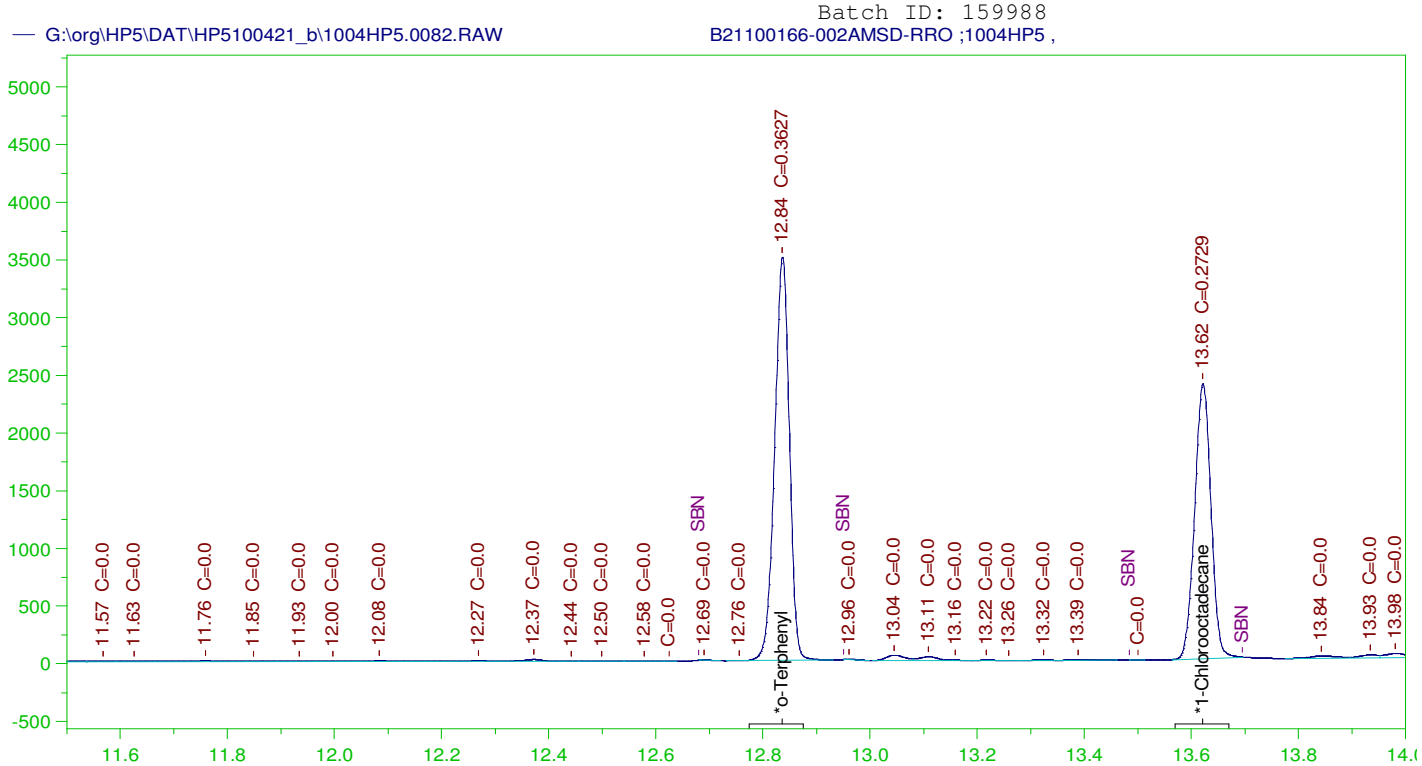
Batch ID: 159988



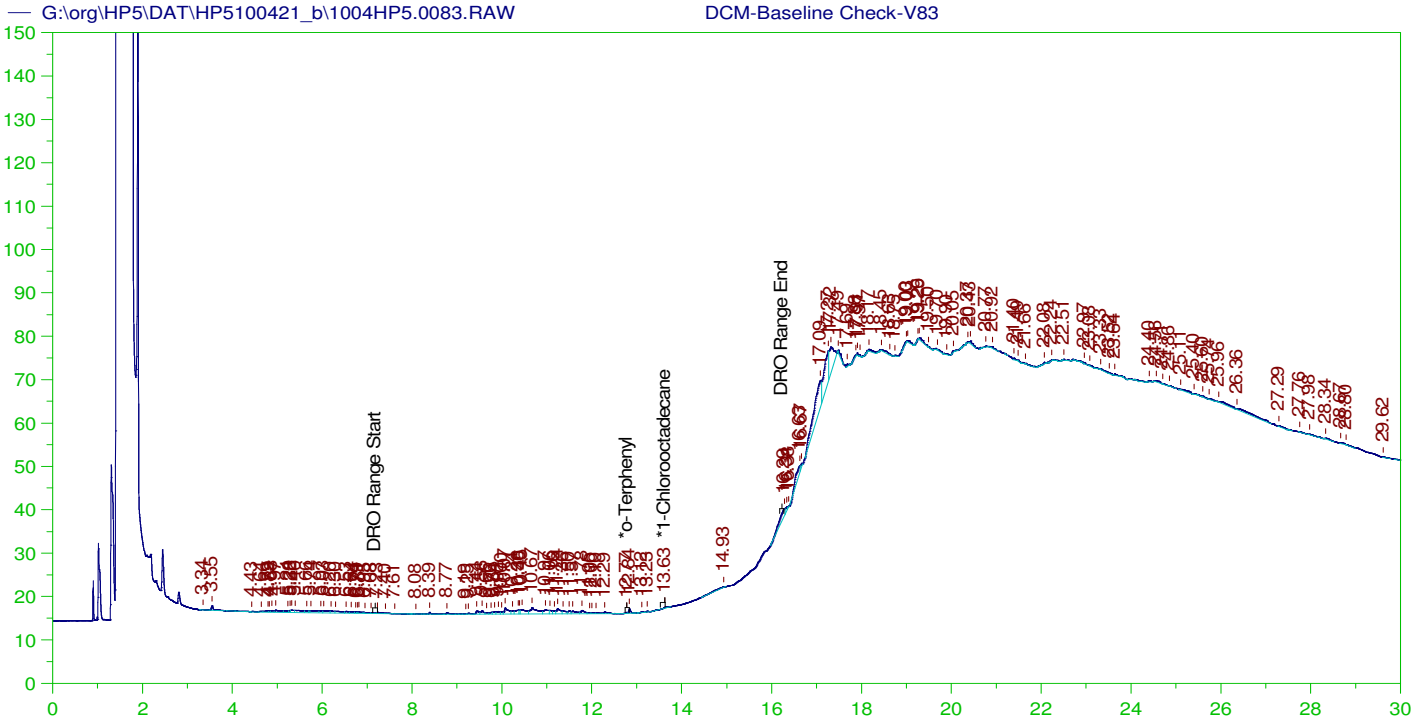

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMSD-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0082.RAW
Date & Time Acquired: 10/7/2021 1:56:56 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | .381 | .363 | 95.21 | - |
| *1-Chlorooctadecane | 13.621 | .381 | .273 | 71.64 | - |

DRO Area:2137361 DRO Amount: 0.1426356
TEH Area:4122223 TEH Amount: 0.2750943




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V83
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0083.RAW
Date & Time Acquired: 10/7/2021 2:47:14 AM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.125 to 16.28

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.773 | 200. | .018 | .01 | - |
| *1-Chlorooctadecane | 13.628 | 200. | .038 | .02 | - |

DRO Area:121992.4 DRO Amount: 4.141324
TEH Area:508706.9 TEH Amount: 17.26928

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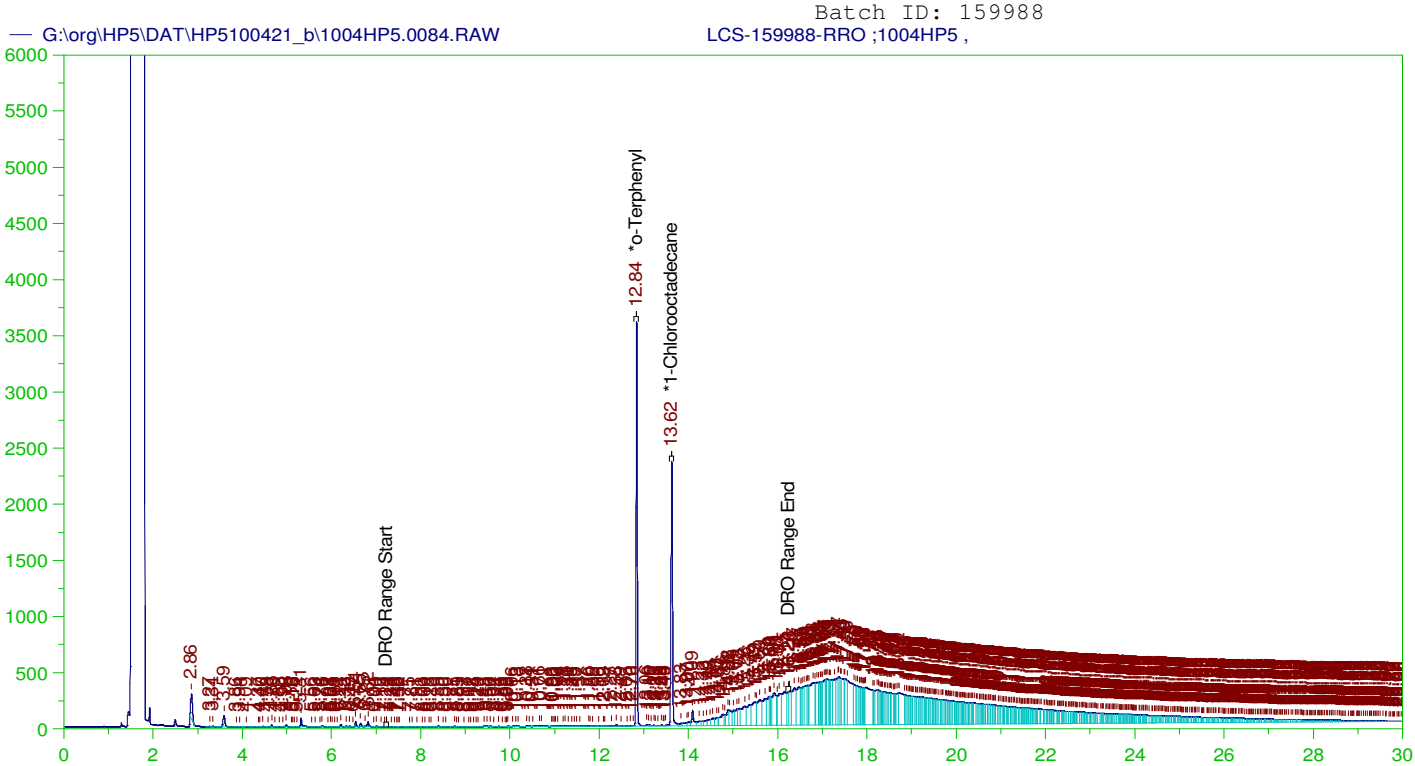
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0084.RAW
Date & Time Acquired: 10/7/2021 3:38:40 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | .2 | .199 | 99.47 | - |
| *1-Chlorooctadecane | 13.622 | .2 | .151 | 75.41 | - |

DRO Area:2.286384E+07 DRO Amount: 0.8010481
TEH (Oil Range)Area:1.34571E+08 TEH (Oil Range)Amount: 4.714775

AMN 10/17/2021

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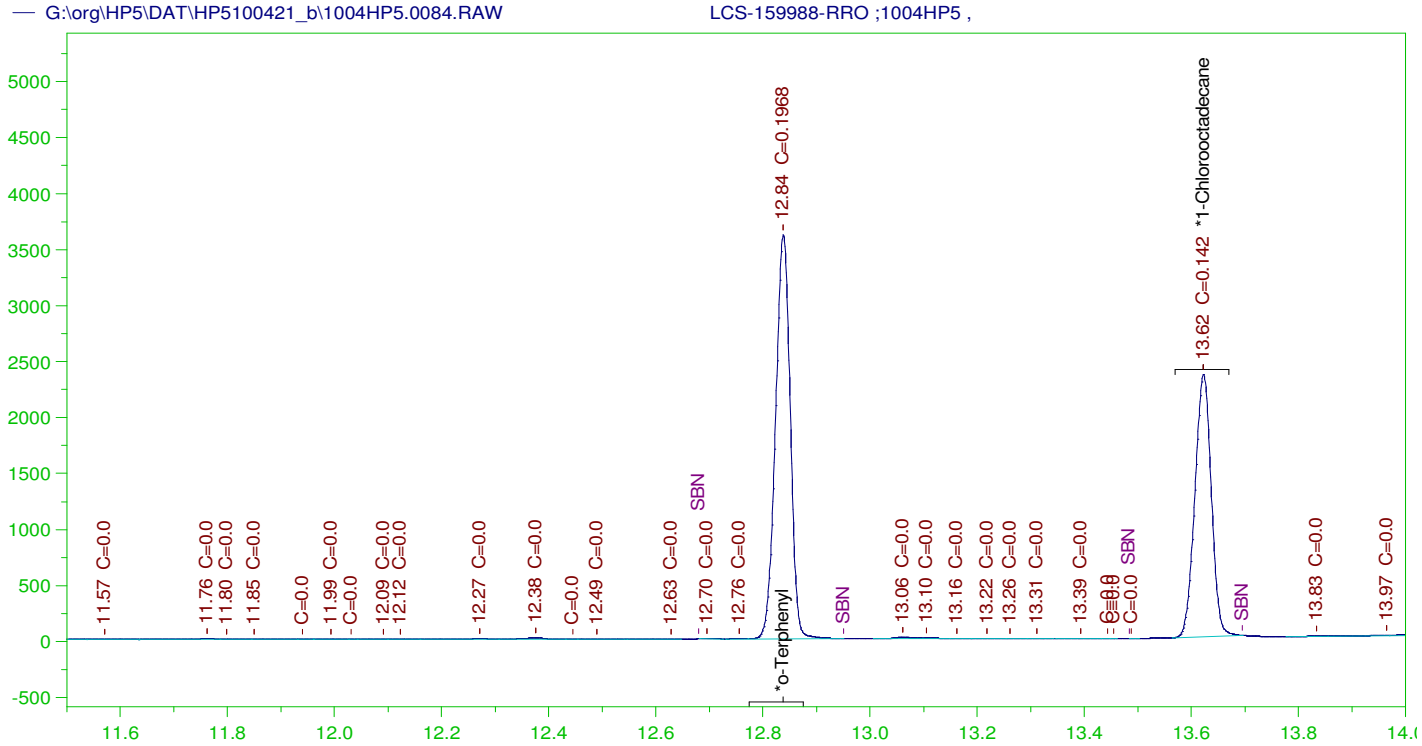


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0084.RAW
Date & Time Acquired: 10/7/2021 3:38:40 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | .2 | .197 | 98.39 | - |
| *1-Chlorooctadecane | 13.622 | .2 | .142 | 71. | - |

DRO Area:1717342 DRO Amount: 6.016807E-02
TEH Area:3913887 TEH Amount: 0.1371253

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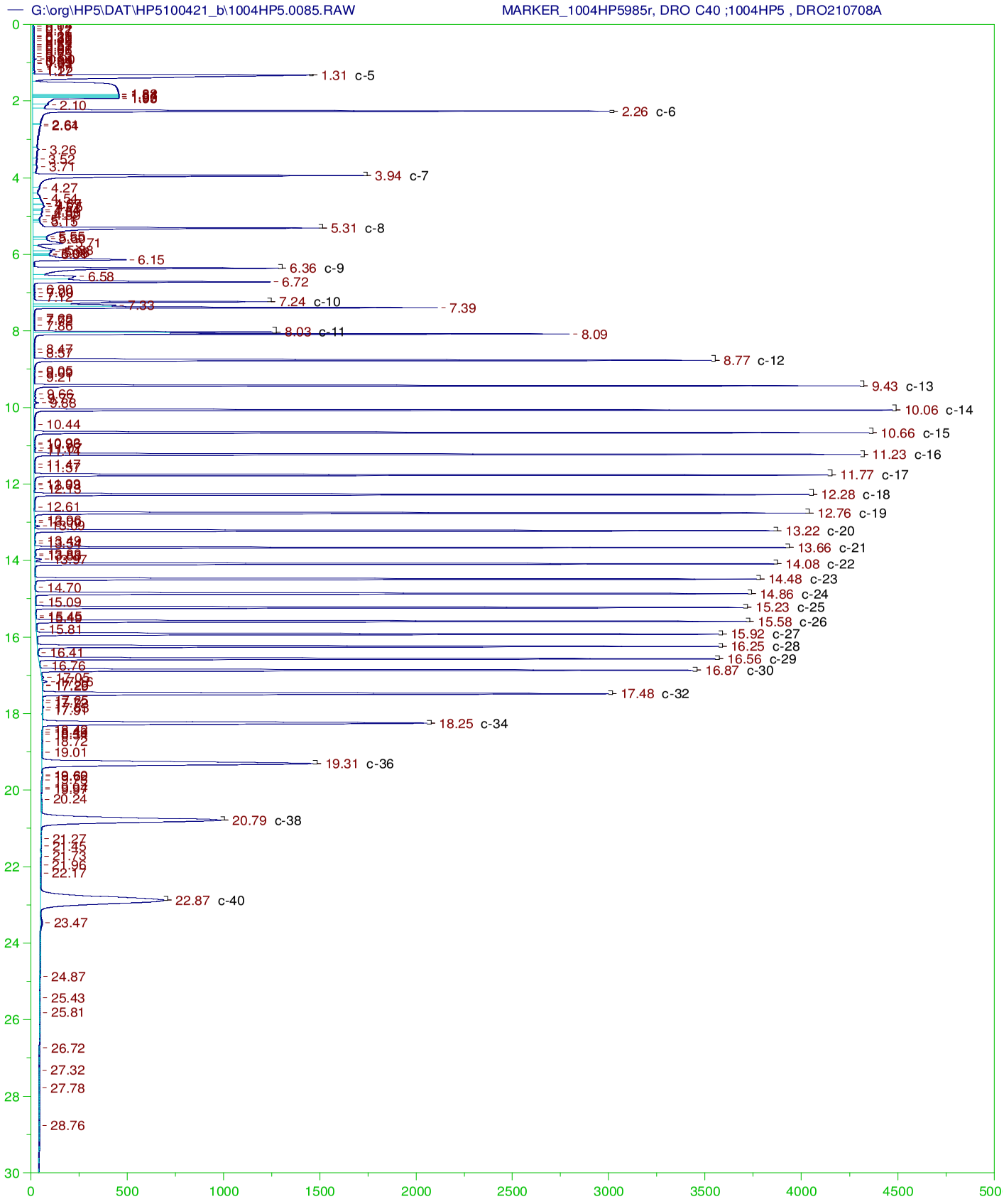


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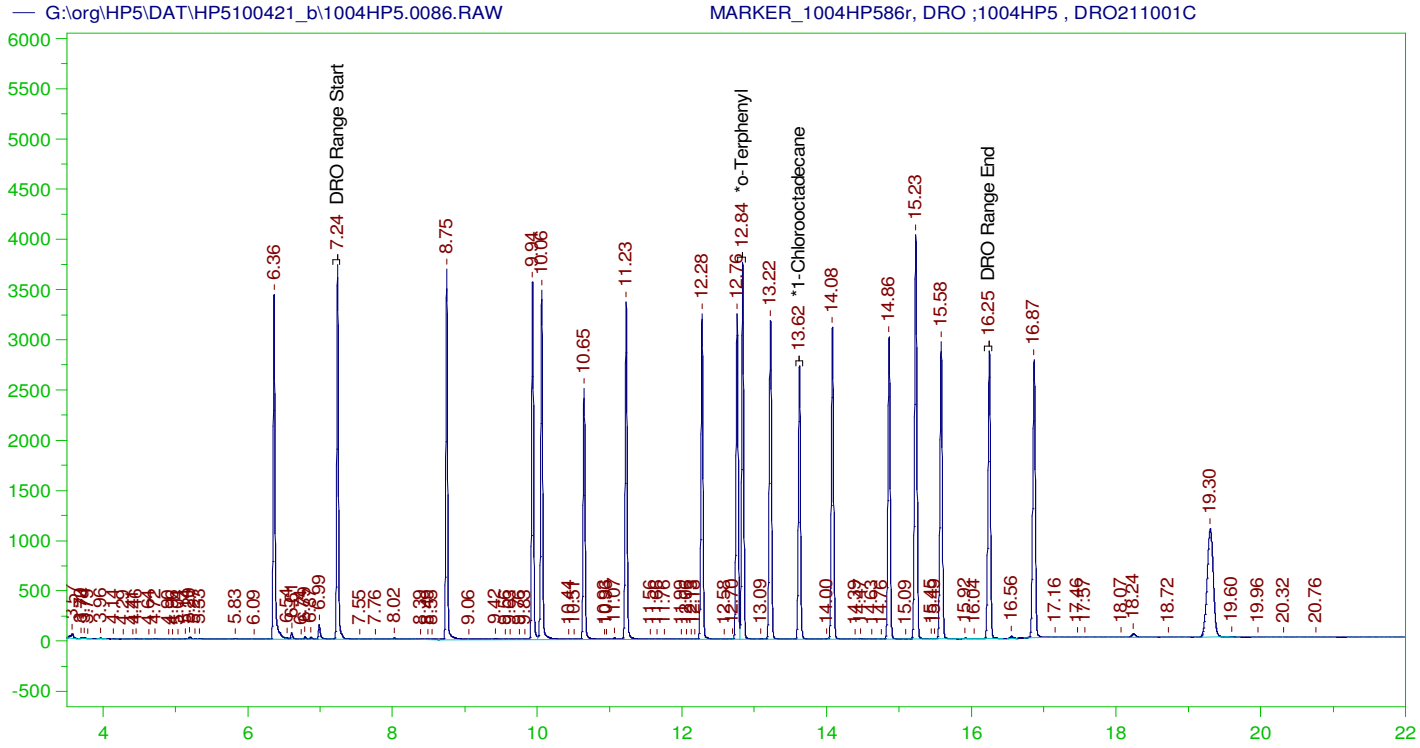


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1004HP586r, DRO ;1004HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0086.RAW
Date & Time Acquired: 10/7/2021 5:23:42 AM
Method File: G:\Org\HP5\Methods\DC_8015-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.84 | .2 | .204 | 102.05 | - |
| *1-Chlorooctadecane | 13.624 | .2 | .164 | 82.24 | - |

DRO Area:9.292078E+07 DRO Amount: 3.154419
TEH Area:1.1872E+08 TEH Amount: 4.030235

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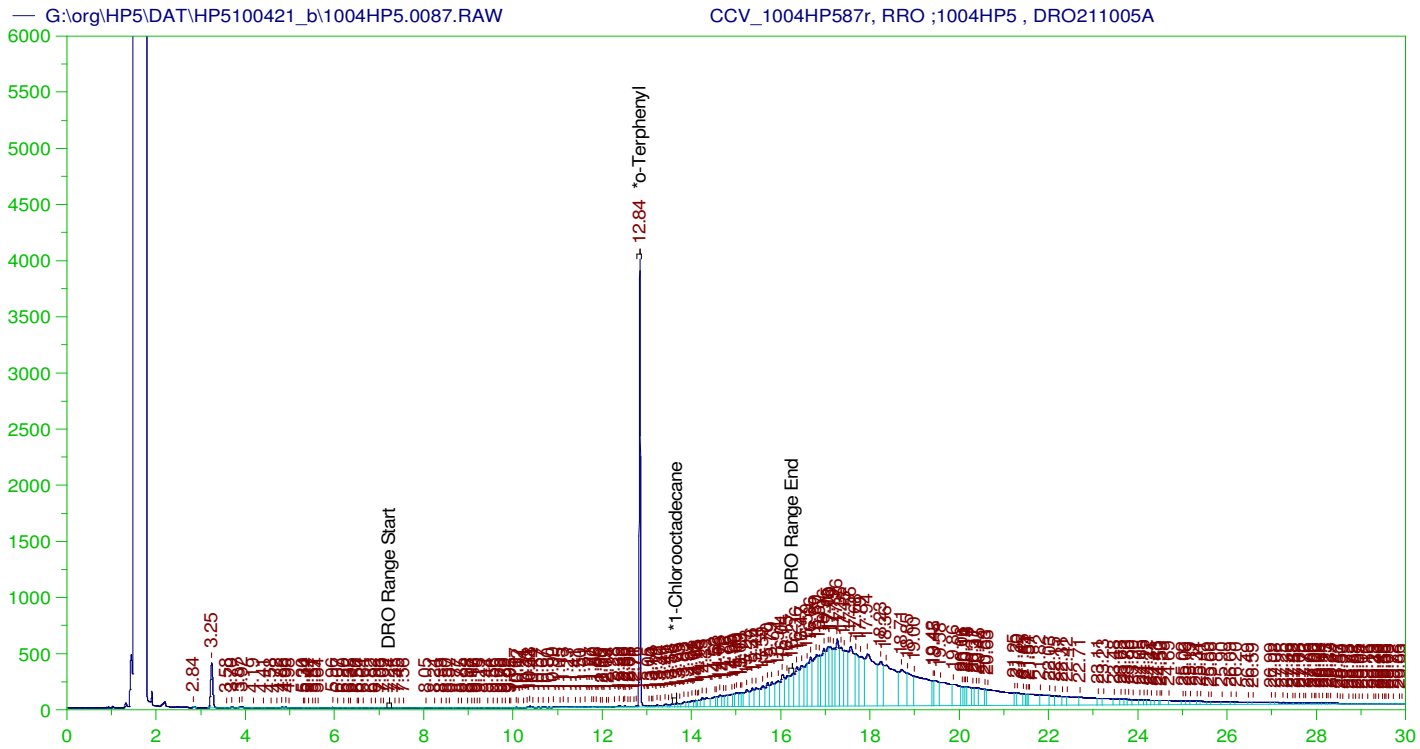


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP587r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0087.RAW
Date & Time Acquired: 10/7/2021 6:15:33 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AHb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 222.122 | 111.06 | - |
| *1-Chlorooctadecane | 13.661 | 200. | 4.013 | 2.01 | - |

DRO Area:2.195592E+07 DRO Amount: 769.2385
TEH (Oil Range) Area:1.32489E+08 TEH (Oil Range)Amount: 4641.83

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0087.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4641.83 | 92.84 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 222.122 | 111.06 | 85-115 |
| *1-Chlorooctadecane | 13.661 | 200. | 4.013 | 2.01 | 85-115 |

AMN 10/17/2021

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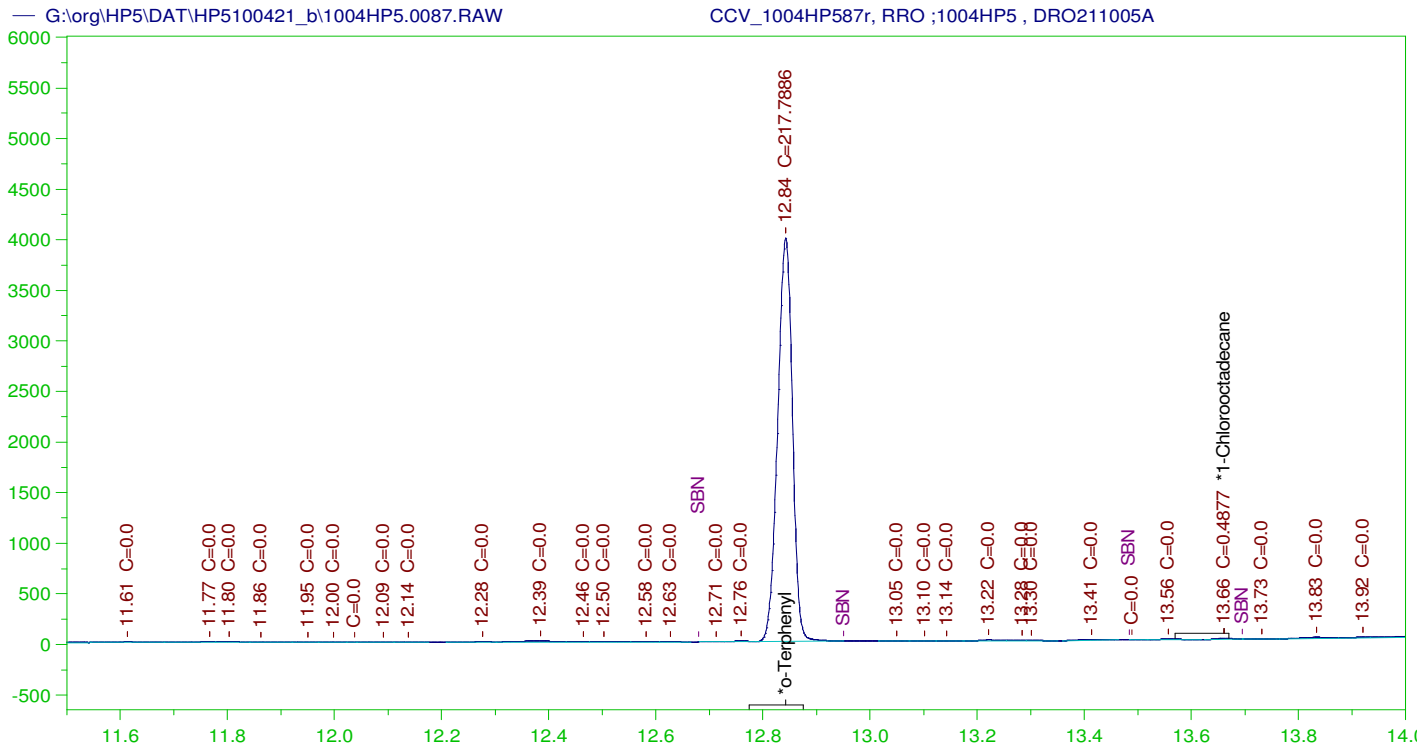


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP587r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0087.RAW
Date & Time Acquired: 10/7/2021 6:15:33 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 217.789 | 108.89 | - |
| *1-Chlorooctadecane | 13.661 | 200. | .488 | .24 | - |

DRO Area:1544737 DRO Amount: 54.12078
TEH Area:3199932 TEH Amount: 112.1115

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0087.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 112.11 | 2.24 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 217.789 | 108.89 | 85-115 |
| *1-Chlorooctadecane | 13.661 | 200. | .488 | .24 | 85-115 |

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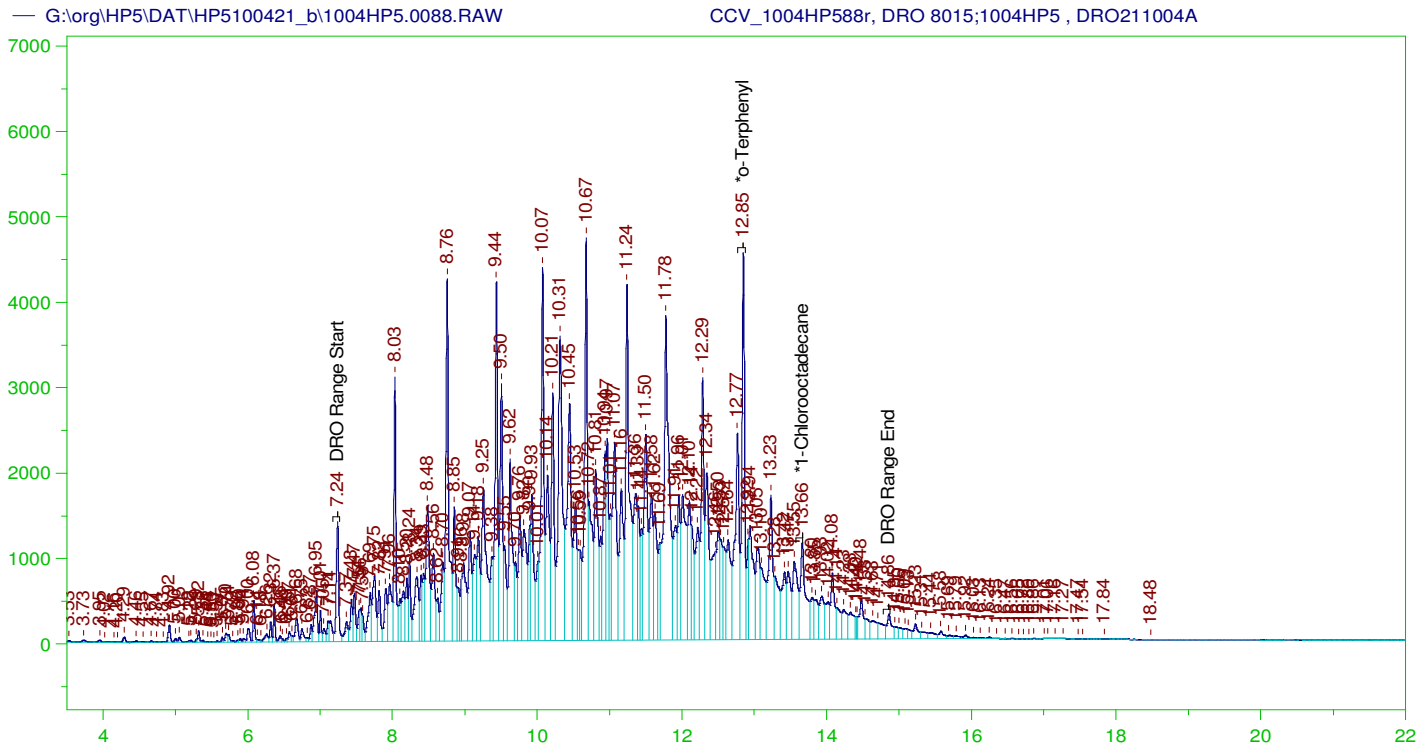



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP588r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0088.RAW
Date & Time Acquired: 10/7/2021 7:02:45 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.849 | 200. | 329.188 | 164.59 | - |
| *1-Chlorooctadecane | 13.663 | 200. | 160.72 | 80.36 | - |

DRO (C10-C24)Area:4.656713E+08 DRO (C10-C24)Amount: 15808.33
TEH Area:4.816842E+08 TEH Amount: 16351.93

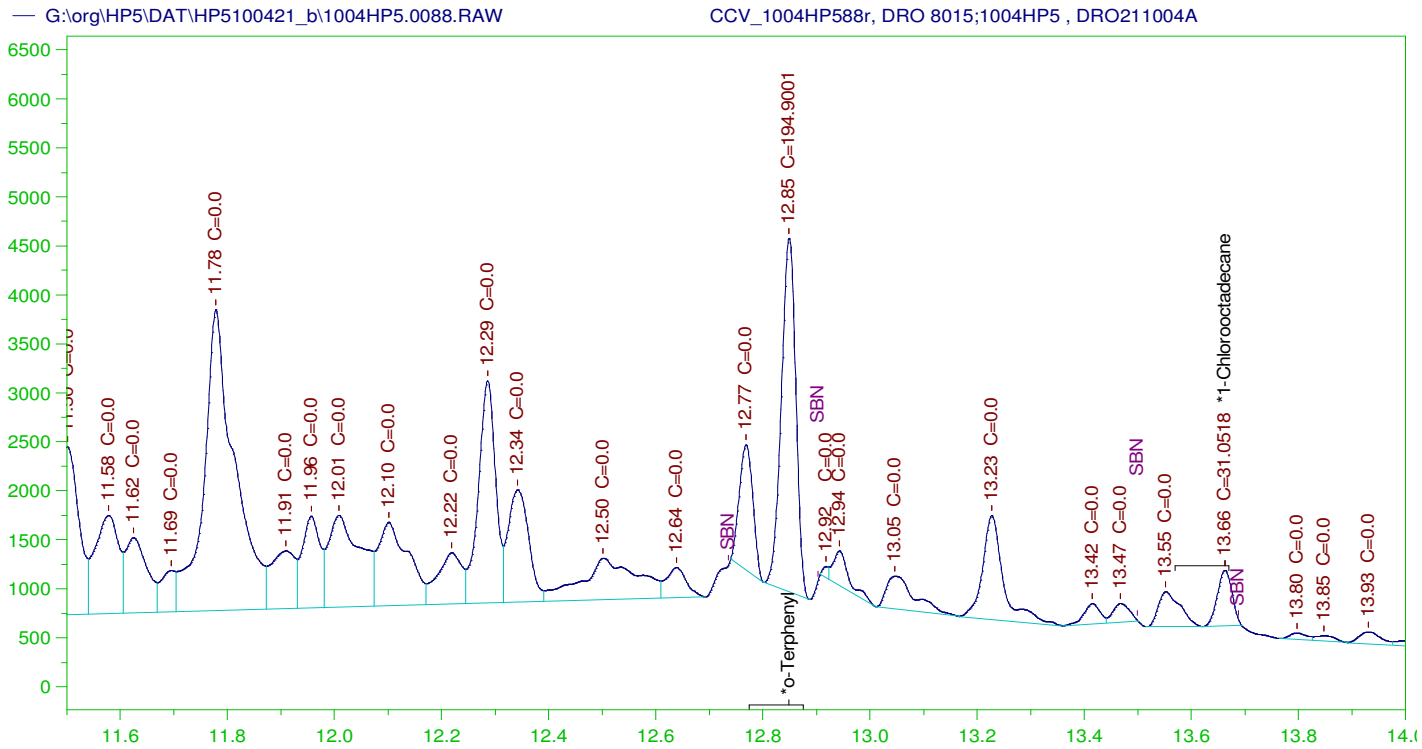
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0088.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16351.93 | 109.01 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.849 | 200. | 329.188 | 164.59 | 85-115 |
| *1-Chlorooctadecane | 13.663 | 200. | 160.72 | 80.36 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\088_CCV_1004HP588r_DC_8015-C24-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP588r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0088.RAW
Date & Time Acquired: 10/7/2021 7:02:45 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.849 | 200. | 194.9 | 97.45 | - |
| *1-Chlorooctadecane | 13.663 | 200. | 31.052 | 15.53 | - |

DRO Area:2.608001E+08 DRO Amount: 8853.488
TEH Area:2.710377E+08 TEH Amount: 9201.027

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0088.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9201.03 | 61.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.849 | 200. | 194.9 | 97.45 | 85-115 |
| *1-Chlorooctadecane | 13.663 | 200. | 31.052 | 15.53 | 85-115 |

G:\org\HP5\dat\HP5100421_b\Review\Og\088_CCV_1004HP588r_DS_8015-HPa-L#.xls

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5100421_b\1004HP5.45r | MARKER_1004HP545r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.46r | MARKER_1004HP546r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.47r | CCV_1004HP547r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.48r | CCV_1004HP548r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.54r | DCM-Baseline Check-V54 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.55r | LCS-159988 ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10045-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.68. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.56r | MB-159988 ;1004HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.57r | B21100171-001A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1060 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.58r | B21100166-001A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1010 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.59r | MARKER_1004HP559r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.60r | MARKER_1004HP560r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.61r | CCV_1004HP561r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.62r | CCV_1004HP562r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.64r | B21100166-005A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.65r | B21100166-002A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.66r | B21100166-003A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-100466-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-100466-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.47. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.67r | B21100166-004A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.68r | B21100166-006A ;1004HP5 , $HC-8015-DRO-W, Need RR possible carry over | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1030 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.69r | DCM-Baseline Check-V69 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.70r | B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR | G:\Org\HP5\Methods\D3_8015-100470-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-100470-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 23.16. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.71r | B21100166-007A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.72r | MARKER_1004HP572r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.73r | MARKER_1004HP573r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.74r | CCV_1004HP574r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0. |

Ann Nebel

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Ann Nebel
Date: 2021.10.20 15:34:39 -06:00

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5100421_b\1004HP5.75r | CCV_1004HP575r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.76r | DCM-Baseline Check-V76 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.78r | B21100166-008A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.79r | B21100166-001AMS ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 510 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.80r | B21100166-001AMSD ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 510 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.81r | B21100166-002AMS-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.82r | B21100166-002AMSD-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.83r | DCM-Baseline Check-V83 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.84r | LCS-159988-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.85r | MARKER_1004HP5985r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.86r | MARKER_1004HP586r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.87r | CCV_1004HP587r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.88r | CCV_1004HP588r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |

Ann Nebel

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Ann Nebel
Date: 2021.10.20 15:35:02 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*17-Oct-21*

**Run ID** GCFID-HP5-B_211007B

**Run Start Date:** 10/7/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754205 | MARKER_1007 | HC-8015-DRO- | SAMP | | 10/7/2021 9:12:1 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.192899 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.928679 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2063467 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.192899 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754206 | CCV_1007HP51 | HC-8015-DRO- | CCV | | 10/7/2021 10:03: | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.506061 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 90% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2147909 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754207 | CCV_1007HP51 | HC-8015-DRO- | CCV | | 10/7/2021 10:54: | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.10979 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 107% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.66495 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 111% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.196958 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754208 | LCS-159988 | HC-8015-DRO- | LCS-DOD | | 10/8/2021 3:17:5 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 14.60057 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 97% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 15.59838 | | 15 | 0 | 0 | 0.0329 | 0.3 | 0 | 104% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.2080822 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754209 | MB-159988 | HC-8015-DRO- | MBLK | | 10/8/2021 4:10:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0.03565848 | | 0 | 0 | 0 | 0.0329 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.2006044 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754210 | B21100166-001 | HC-8015-DRO- | SAMP | | 10/8/2021 5:03:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038511 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.032571 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1713373 | | 0.198 | 0 | 0 | 0.0004247 | 0.00198 | 0 | 87% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754211 | B21100166-002 | HC-8015-DRO- | SAMP | | 10/8/2021 5:55:2 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754211 | B21100166-002 | HC-8015-DRO- | SAMP | | 10/8/2021 5:55:2 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0316498 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1799599 | | 0.1924 | 0 | 0 | 0.0004127 | 0.001924 | 0 | 94% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754212 | B21100166-005 | HC-8015-DRO- | SAMP | | 10/8/2021 6:43:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0377719 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0319459 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.118378 | | 0.1942 | 0 | 0 | 0.0004166 | 0.001942 | 0 | 61% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754213 | MARKER_1007 | HC-8015-DRO- | SAMP | | 10/8/2021 8:16:0 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.229403 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.121 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2086719 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.229403 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754214 | CCV_1007HP53 | HC-8015-DRO- | CCV | | 10/8/2021 9:02:4 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.598383 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 92% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2202429 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754215 | CCV_1007HP53 | HC-8015-DRO- | CCV | | 10/8/2021 9:50:2 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754215 | CCV_1007HP53 | HC-8015-DRO- | CCV | | 10/8/2021 9:50:2 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.27889 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 109% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.83613 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 112% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1988421 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754216 | B21100166-003 | HC-8015-DRO- | SAMP | | 10/8/2021 11:27: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0316498 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1813831 | | 0.1924 | 0 | 0 | 0.0004127 | 0.001924 | 0 | 94% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754217 | B21100166-004 | HC-8015-DRO- | SAMP | | 10/8/2021 12:16: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.032242 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1294802 | | 0.196 | 0 | 0 | 0.0004204 | 0.00196 | 0 | 66% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754218 | B21100166-006 | HC-8015-DRO- | SAMP | | 10/8/2021 1:02:3 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.032242 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1913944 | | 0.196 | 0 | 0 | 0.0004204 | 0.00196 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754219 | B21100166-007 | HC-8015-DRO- | SAMP | | 10/8/2021 1:49:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754219 | B21100166-007 | HC-8015-DRO- | SAMP | | 10/8/2021 1:49:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0316498 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1886431 | | 0.1924 | 0 | 0 | 0.0004127 | 0.001924 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754220 | B21100166-008 | HC-8015-DRO- | SAMP | | 10/8/2021 2:37:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0311892 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1847952 | | 0.1896 | 0 | 0 | 0.0004067 | 0.001896 | 0 | 97% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758988 | B21100166-001 | HC-8015-DRO- | MS-DOD | | 10/8/2021 3:23:4 | 1 | 159988 | 10/4/2021 2: | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 28.05307 | | 29.4 | 0 | 0 | 0.076244 | 0.588 | 0 | 95% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 29.65329 | | 29.4 | 0 | 0 | 0.064484 | 0.588 | 0 | 101% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.4097888 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 105% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758989 | B21100166-001 | HC-8015-DRO- | MSD-DOD | | 10/8/2021 4:11:2 | 1 | 159988 | 10/4/2021 2: | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 25.67407 | | 29.4 | 0 | 28.05307 | 0.076244 | 0.588 | 0 | 87% | 36 | 132 | 9% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 27.18201 | | 29.4 | 0 | 29.65329 | 0.064484 | 0.588 | 0 | 92% | 60 | 132 | 9% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.380617 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 97% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758990 | LCS-159988-RR | HC-8015-DRO- | LCS | | 10/8/2021 5:03:5 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 4.661633 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 93% | 60 | 140 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.201302 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 101% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758991 | MARKER_1007 | HC-8015-DRO- | SAMP | | 10/8/2021 6:52:2 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.28293 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.090804 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2124181 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 106% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.28293 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758992 | CCV_1007HP53 | HC-8015-DRO- | CCV | | 10/8/2021 7:44:2 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.524891 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 90% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2167116 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 108% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758993 | CCV_1007HP53 | HC-8015-DRO- | CCV | | 10/8/2021 8:35:5 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.27889 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 109% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.71631 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 111% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1977916 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758994 | B21100166-002 | HC-8015-DRO- | MS-DOD | | 10/8/2021 10:22: | 1 | 159988 | 10/4/2021 2: | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 7.705797 | | 9.5 | 0 | 0 | 0.16701 | 0.57 | 0 | 81% | 41 | 113 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.3324047 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 87% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758995 | B21100166-002 | HC-8015-DRO- | MSD-DOD | | 10/8/2021 11:15: | 1 | 159988 | 10/4/2021 2: | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 9.393323 | | 9.5 | 0 | 7.705797 | 0.16701 | 0.57 | 0 | 99% | 41 | 113 | 20% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.3785233 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758996 | MARKER_1007 | HC-8015-DRO- | SAMP | | 10/9/2021 1:02:4 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.17509 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.932281 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2059444 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.17509 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

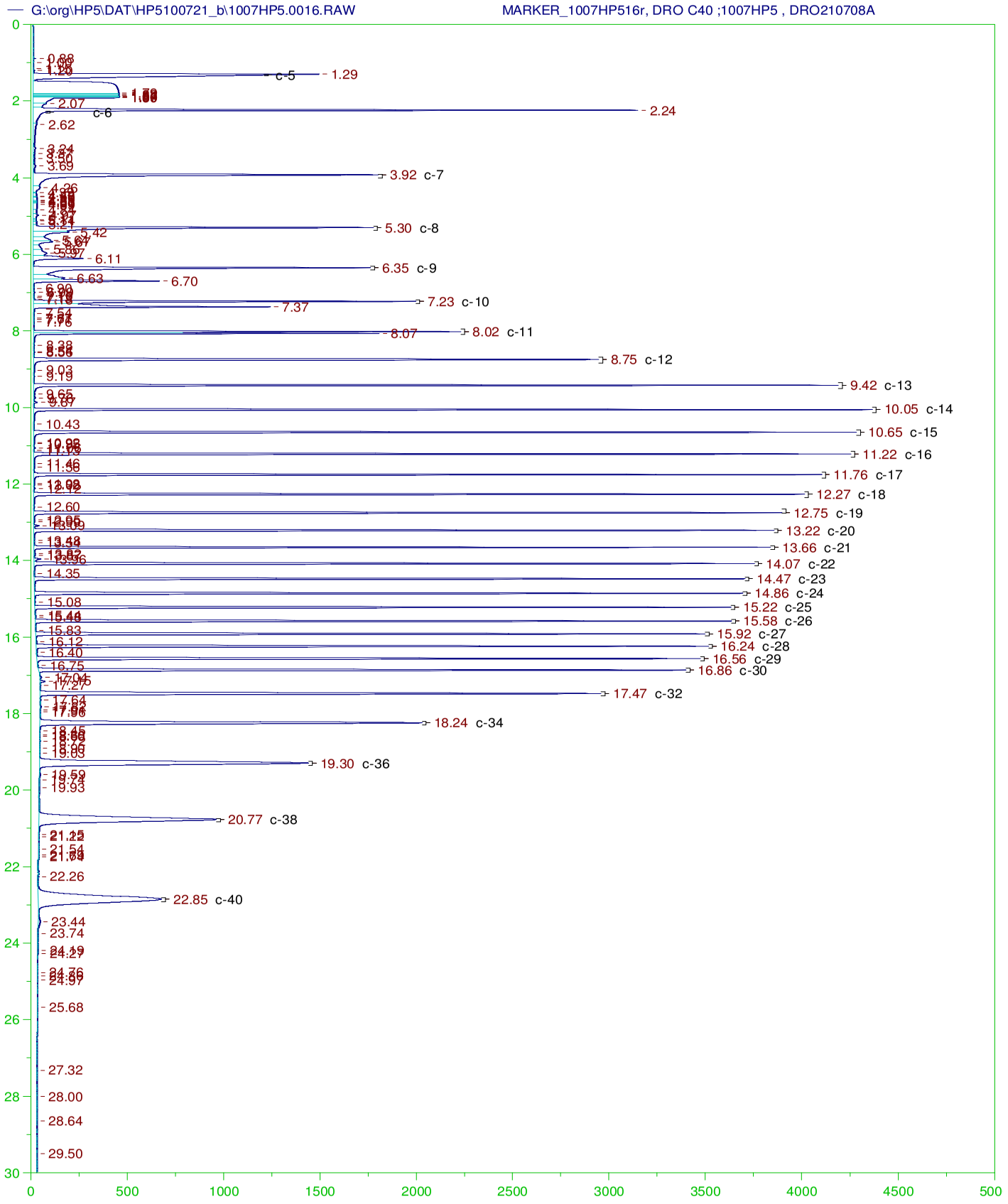
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758997 | CCV_1007HP55 | HC-8015-DRO- | CCV | | 10/9/2021 1:57:0 | 1 | R368362 | | 0 | 0 | |

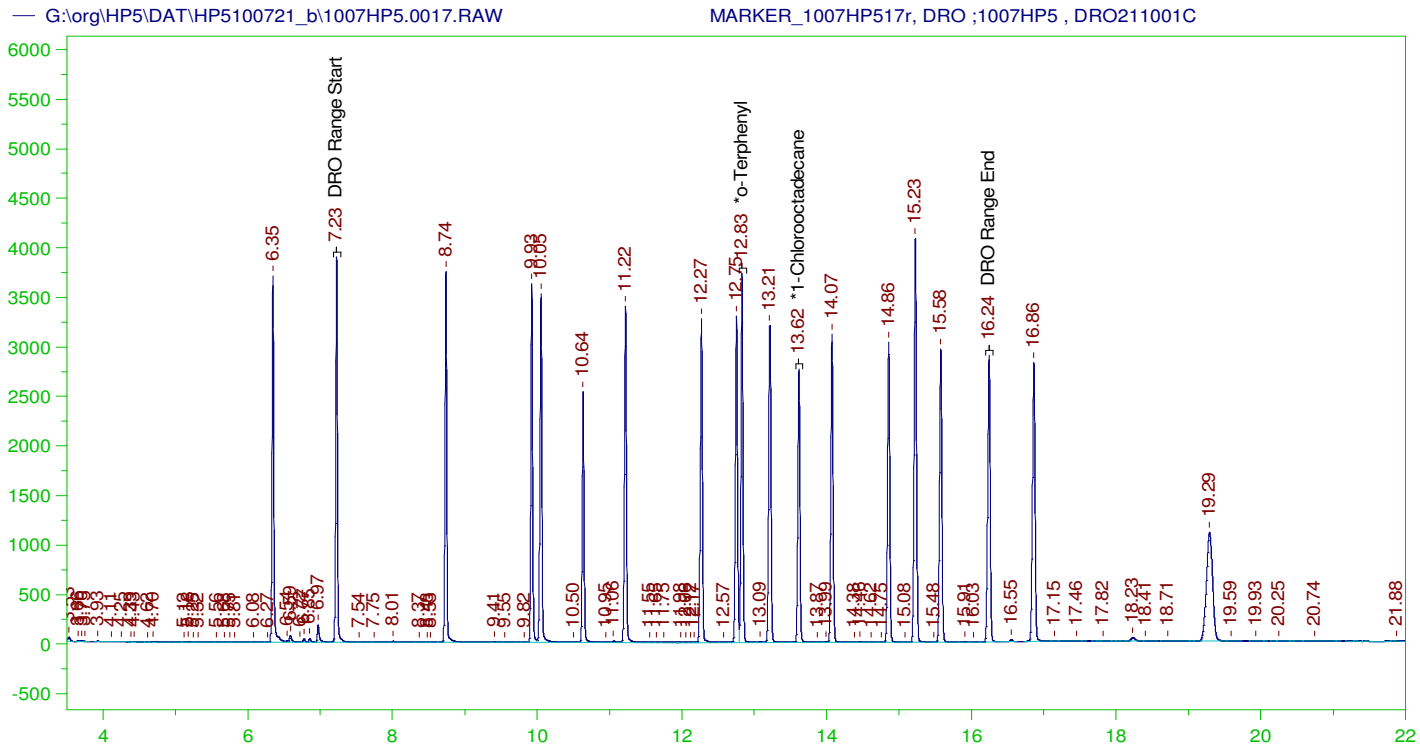
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.54287 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 91% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2201556 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758998 | CCV_1007HP55 | HC-8015-DRO- | CCV | | 10/9/2021 2:50:3 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.66379 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 104% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.20437 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 108% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1915942 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 96% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5100721_b\1007HP5.16r | MARKER_1007HP516r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.17r | MARKER_1007HP517r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.18r | CCV_1007HP518r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.19r | CCV_1007HP519r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.24r | LCS-159988 ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100724-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.25r | MB-159988 ;1007HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.26r | B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1010 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.27r | B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.28r | B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.29r | MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.30r | MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.31r | CCV_1007HP531r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.32r | CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.33r | DCM-Baseline Check-V33 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.34r | B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.35r | B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.36r | B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.37r | B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.38r | B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.39r | B21100166-001AMS ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 510 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.40r | B21100166-001AMSD ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 510 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.41r | LCS-159988-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.42r | MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.43r | MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.44r | CCV_1007HP531r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.45r | CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.46r | DCM-Baseline Check-V46 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.47r | B21100166-002AMS-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.48r | B21100166-002AMSD-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.49r | MARKER_1007HP549r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.50r | MARKER_1007HP550r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.51r | CCV_1007HP551r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.52r | CCV_1007HP552r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\org\HP5\DAT\HP5100721_b\1007HP5.0016.RAW
MARKER_1007HP516r, DRO C40 ;1007HP5 , DRO210708A
c-5
1.29
2.07
c-6
2.24
2.62
3.69
3.92 c-7
5.30 c-8
6.11
6.35 c-9
6.63
6.70
7.23 c-10
7.37
8.07
8.02 c-11
8.75 c-12
9.42 c-13
10.05 c-14
10.43
10.65 c-15
11.22 c-16
11.76 c-17
12.27 c-18
12.60
12.75 c-19
13.22 c-20
13.66 c-21
14.07 c-22
14.35
14.47 c-23
14.86 c-24
15.08
15.22 c-25
15.58 c-26
15.83
15.92 c-27
16.12
16.24 c-28
16.40
16.56 c-29
16.75
16.86 c-30
17.47 c-32
18.24 c-34
19.30 c-36
19.93
20.77 c-38
22.26
22.85 c-40
23.44
23.74
25.68
27.32
28.00
28.64
29.50
0
500
1000
1500
2000
2500
3000
3500
4000
4500
500




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

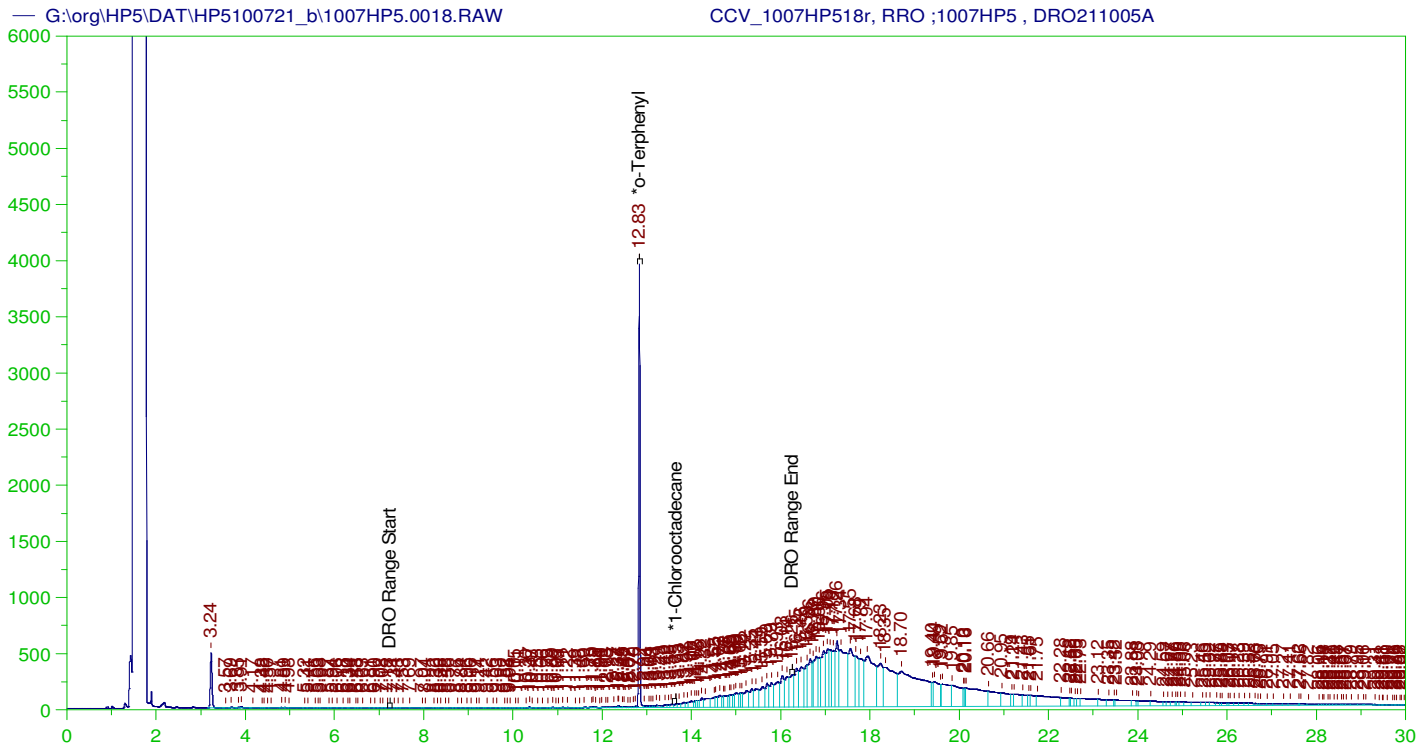
Sample Name: MARKER_1007HP517r, DRO ;1007HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0017.RAW
Date & Time Acquired: 10/7/2021 9:12:18 PM
Method File: G:\Org\HP5\Methods\DC_8015-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.83 | .2 | .206 | 103.17 | - |
| *1-Chlorooctadecane | 13.616 | .2 | .167 | 83.31 | - |

DRO Area:9.405427E+07 DRO Amount: 3.192899
TEH Area:1.157284E+08 TEH Amount: 3.928679

G:\org\HP5\dat\HP5100721_b\Review\017_MARKER_1007HP517r_DC_8015-HR-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP518r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0018.RAW
Date & Time Acquired: 10/7/2021 10:03:49 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AI-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | 217.648 | 108.82 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 4.019 | 2.01 | - |

DRO Area:2.19373E+07 DRO Amount: 768.5861
TEH (Oil Range)Area:1.286138E+08 TEH (Oil Range)Amount: 4506.061

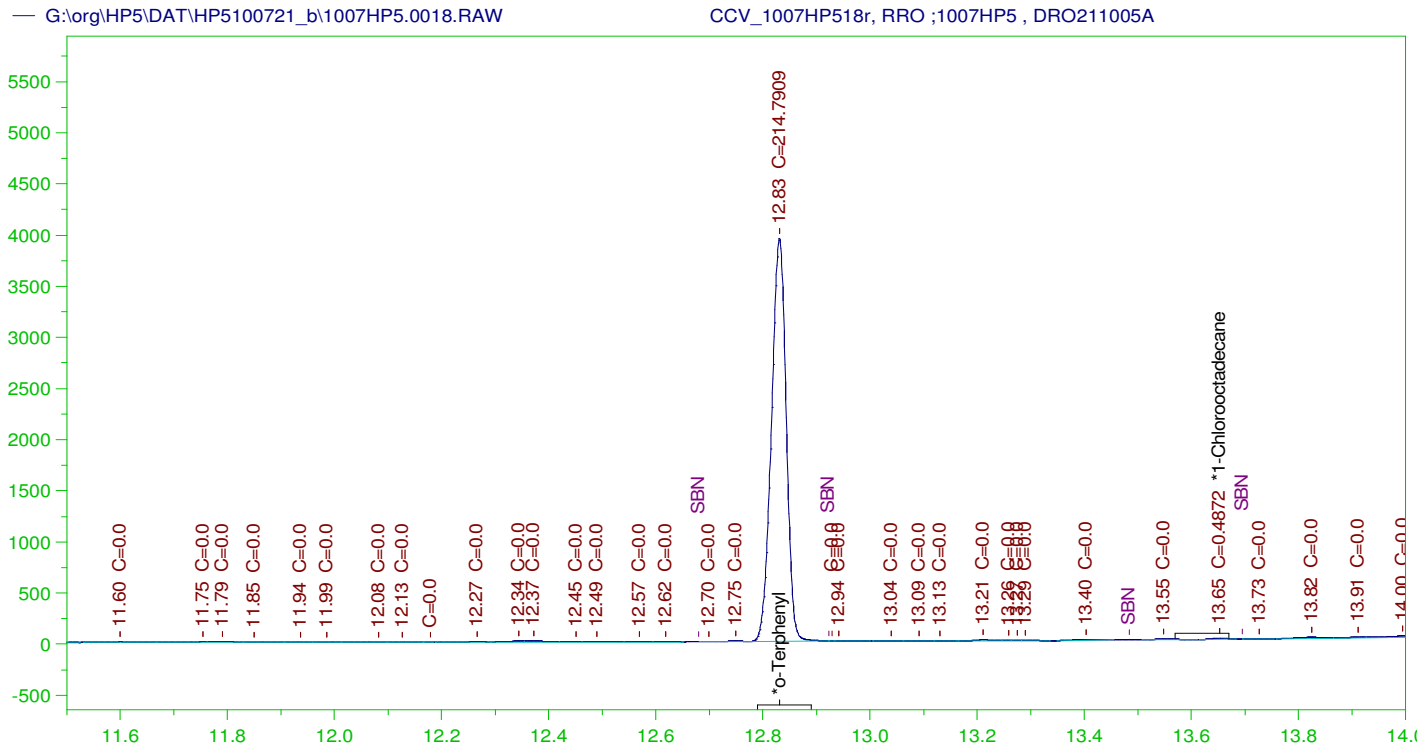
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0018.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4506.06 | 90.12 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | 217.648 | 108.82 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 4.019 | 2.01 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\018_CCV_1007HP518r_DC_OIL-AI-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP518r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0018.RAW
Date & Time Acquired: 10/7/2021 10:03:49 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | 214.791 | 107.4 | - |
| *1-Chlorooctadecane | 13.652 | 200. | .487 | .24 | - |

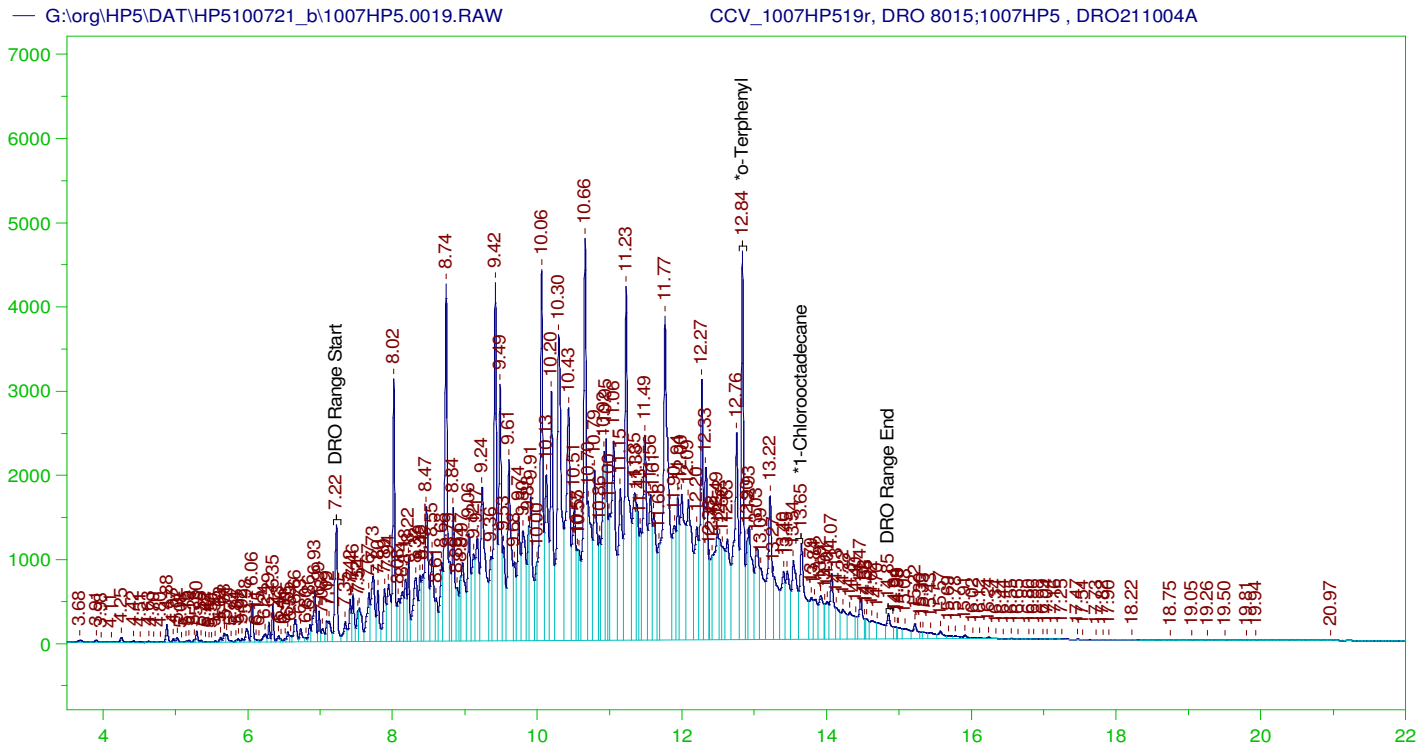
DRO Area:1500138 DRO Amount: 52.55822
TEH Area:3152237 TEH Amount: 110.4405

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0018.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 110.44 | 2.21 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | 214.791 | 107.4 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | .487 | .24 | 85-115 |

G:\org\HP5\dat\HP5100721_b\Review\018_CCV_1007HP518r_DS_OIL-AI-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP519r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0019.RAW
Date & Time Acquired: 10/7/2021 10:54:18 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | 200. | 332.129 | 166.06 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 160.28 | 80.14 | - |

DRO (C10-C24)Area:4.745514E+08 DRO (C10-C24)Amount: 16109.79
TEH Area:4.90905E+08 TEH Amount: 16664.95

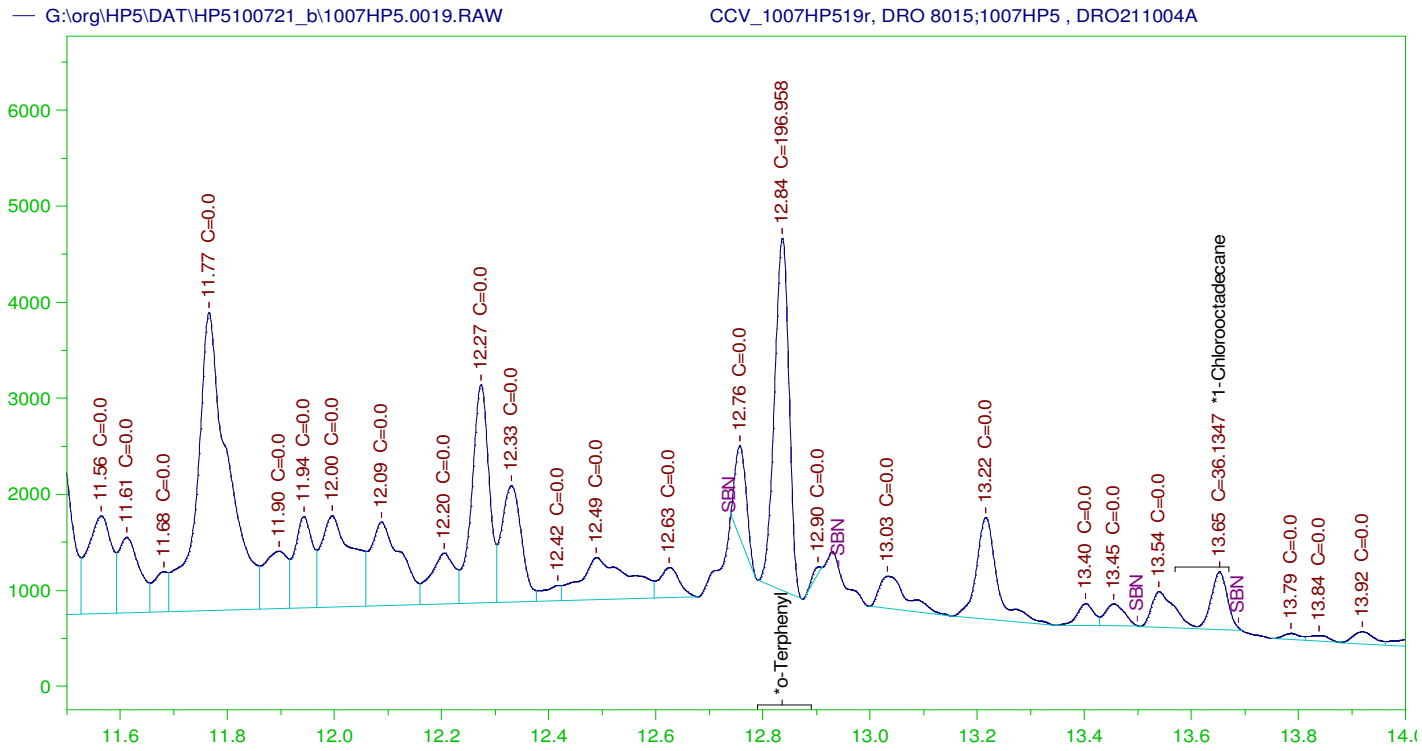
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16664.95 | 111.1 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | 200. | 332.129 | 166.06 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 160.28 | 80.14 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\019_CCV_1007HP519r_DC_8015-C24-HR-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP519r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0019.RAW
Date & Time Acquired: 10/7/2021 10:54:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | 200. | 196.958 | 98.48 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 36.135 | 18.07 | - |

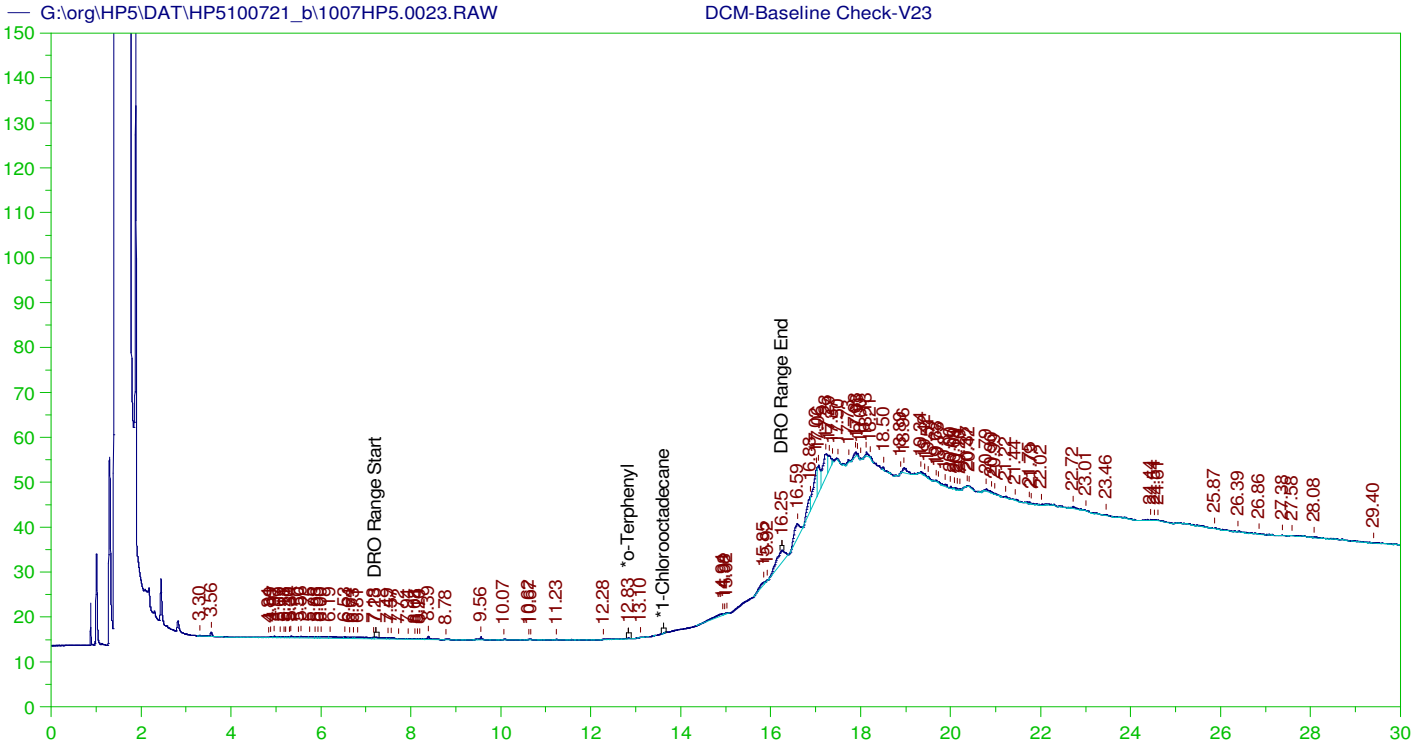
DRO Area:2.633599E+08 DRO Amount: 8940.385
TEH Area:2.737114E+08 TEH Amount: 9291.791

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9291.79 | 61.95 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | 200. | 196.958 | 98.48 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 36.135 | 18.07 | 85-115 |

G:\org\HP5\dat\HP5100721_b\Review\019_CCV_1007HP519r_DS_8015-HR-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V23
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0023.RAW
Date & Time Acquired: 10/8/2021 2:25:32 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

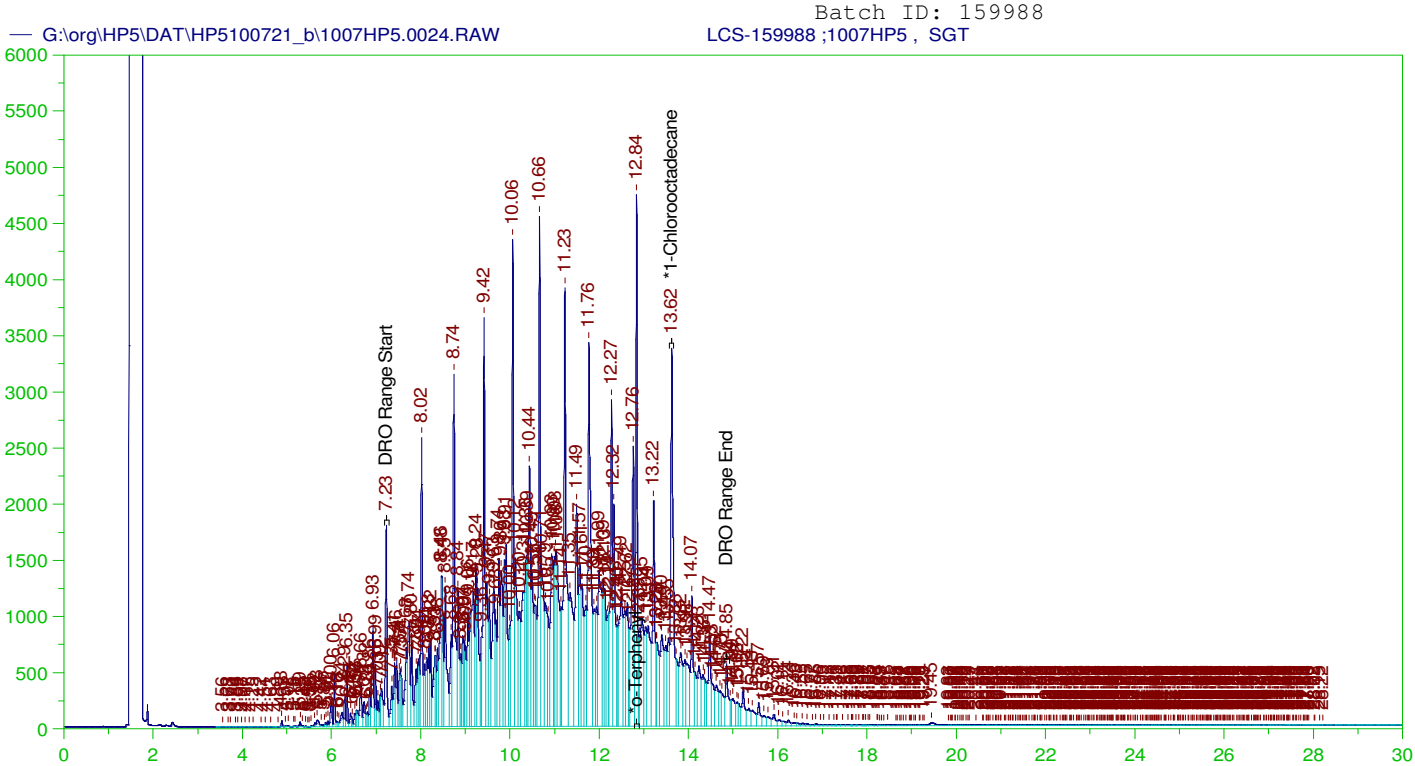
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.971 | 200. | . | . | - |

DRO Area:88499.95 DRO Amount: 3.004344
TEH Area:403462.3 TEH Amount: 13.6965

G:\org\HP5\dat\HP5100721_b\Review\023_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988 ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0024.RAW
Date & Time Acquired: 10/8/2021 3:17:52 AM
Method File: G:\Org\HP5\Methods\D3_8015-100724-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

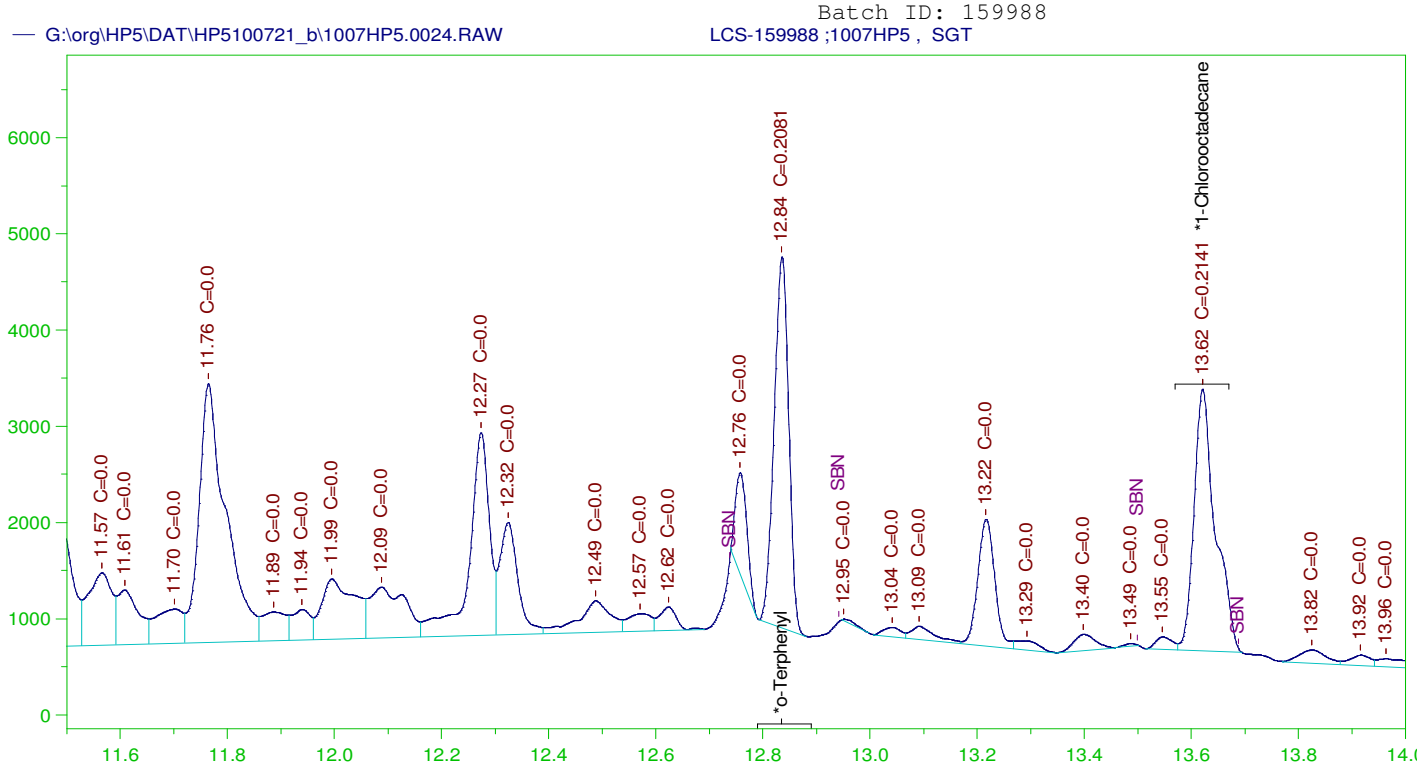
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.835 | .2 | .347 | 173.41 | - |
| *1-Chlorooctadecane | 13.621 | .2 | .372 | 186.22 | - |

DRO (SGT-C10-C24)Area:4.30094E+08 DRO (SGT-C10-C24)Amount: 14.60057
TEH (SGT)Area:4.594867E+08 TEH (SGT)Amount: 15.59838

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\024_LCS-159988_D3_8015-100724-C24-HR-L%.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988 ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0024.RAW
Date & Time Acquired: 10/8/2021 3:17:52 AM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.835 | .2 | .208 | 104.04 | - |
| *1-Chlorooctadecane | 13.621 | .2 | .214 | 107.06 | - |

DRO Area:2.107906E+08 DRO Amount: 7.155794
TEH Area:2.22689E+08 TEH Amount: 7.559712

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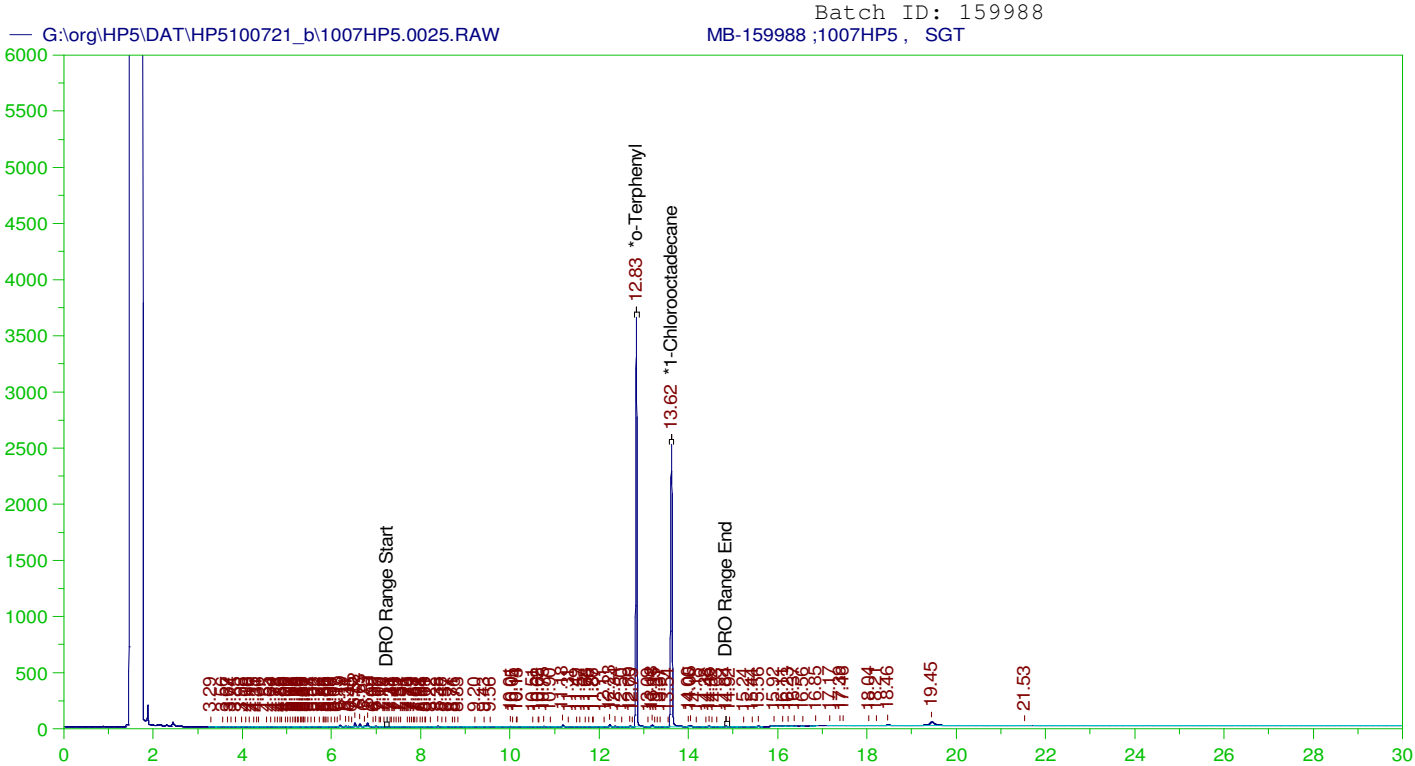
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-159988 ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0025.RAW
Date & Time Acquired: 10/8/2021 4:10:08 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

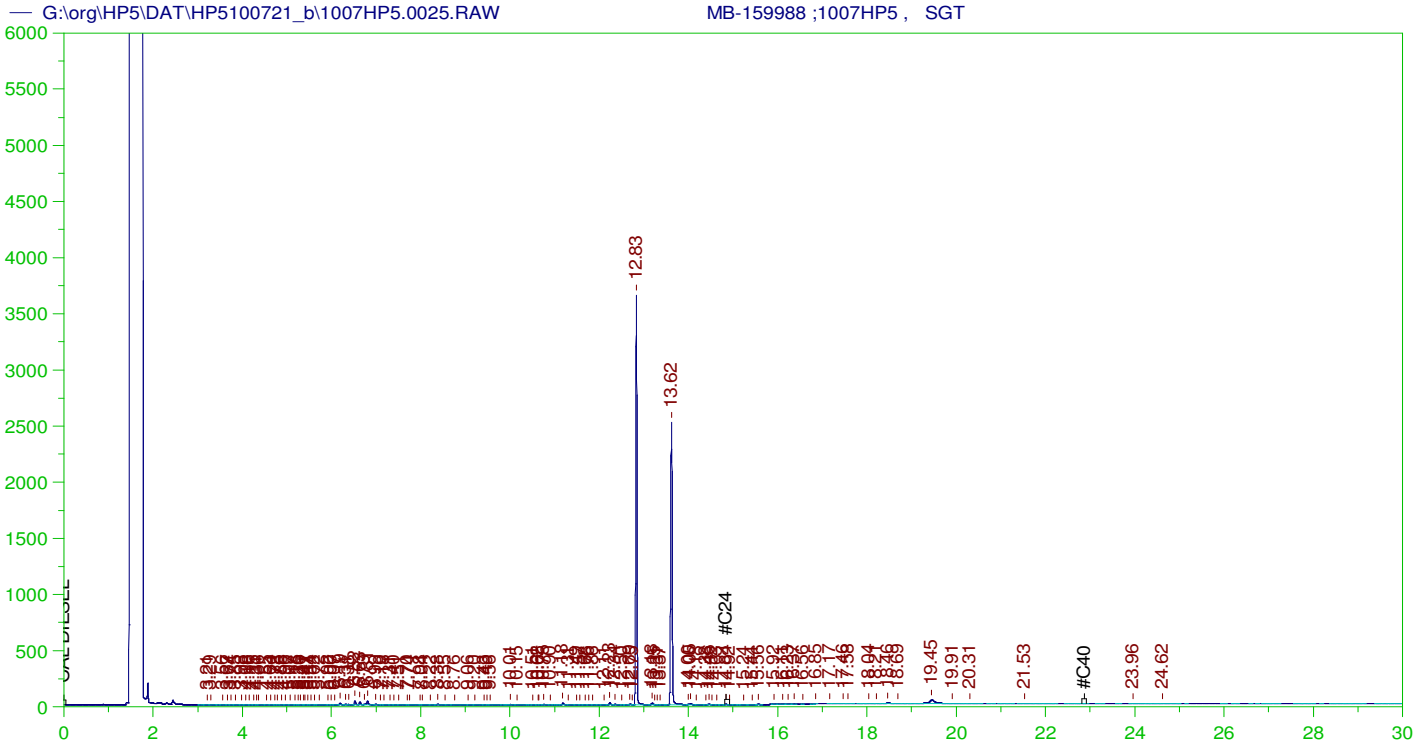
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.83 | .2 | .201 | 100.3 | - |
| *1-Chlorooctadecane | 13.616 | .2 | .157 | 78.68 | - |

DRO (SGT-C10-C24)Area:346579 DRO (SGT-C10-C24)Amount: 1.176546E-02
TEH (SGT)Area:1050404 TEH (SGT)Amount: 3.565848E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\025_MB-159988_DR_8015-C24-HR-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-159988 ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0025.RAW
Date & Time Acquired: 10/8/2021 4:10:08 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40)Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

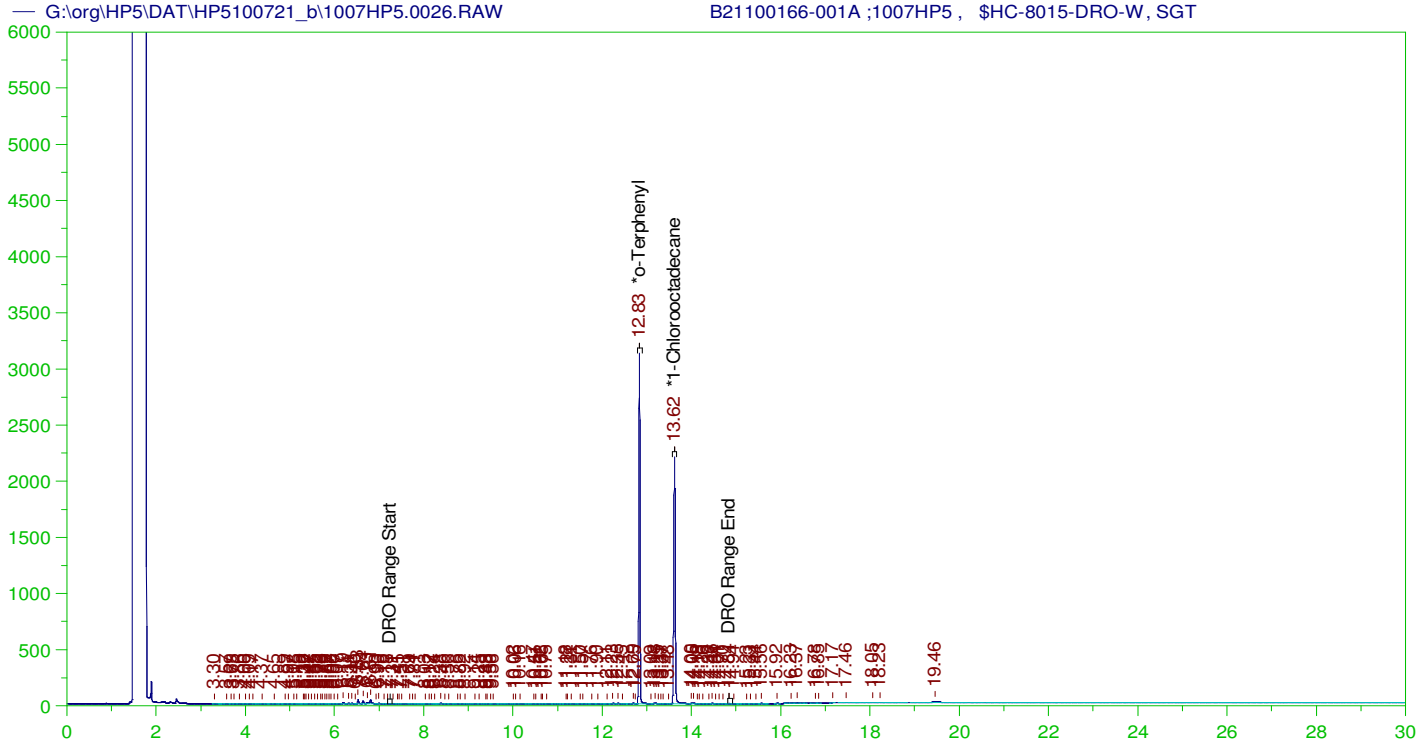
~~RRO~~ Oil Range(SGT-C24-C40)Area:304770.5 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 1.067781E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\025_MB-159988_DR_OIL-S-AI-L%.xls

**ERH1764 (RHMW08)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0026.RAW B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0026.RAW
Date & Time Acquired: 10/8/2021 5:03:00 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | .198 | .171 | 86.53 | - |
| *1-Chlorooctadecane | 13.617 | .198 | .137 | 69.25 | - |

DRO (SGT-C10-C24)Area:219404.6 DRO (SGT-C10-C24)Amount: 7.374473E-03
TEH (SGT)Area:745894.3 TEH (SGT)Amount: 2.507047E-02

AMN 10/17/2021

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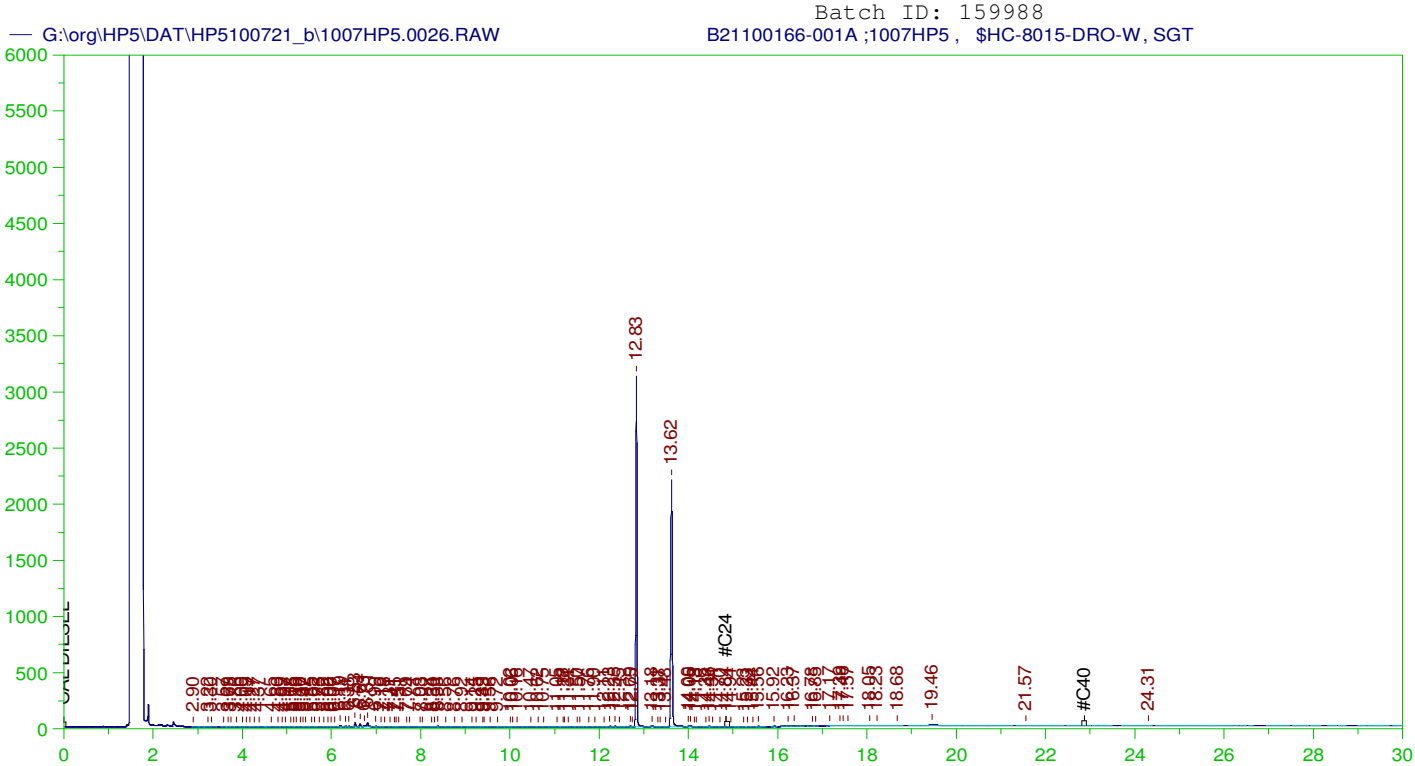
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0026.RAW
Date & Time Acquired: 10/8/2021 5:03:00 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

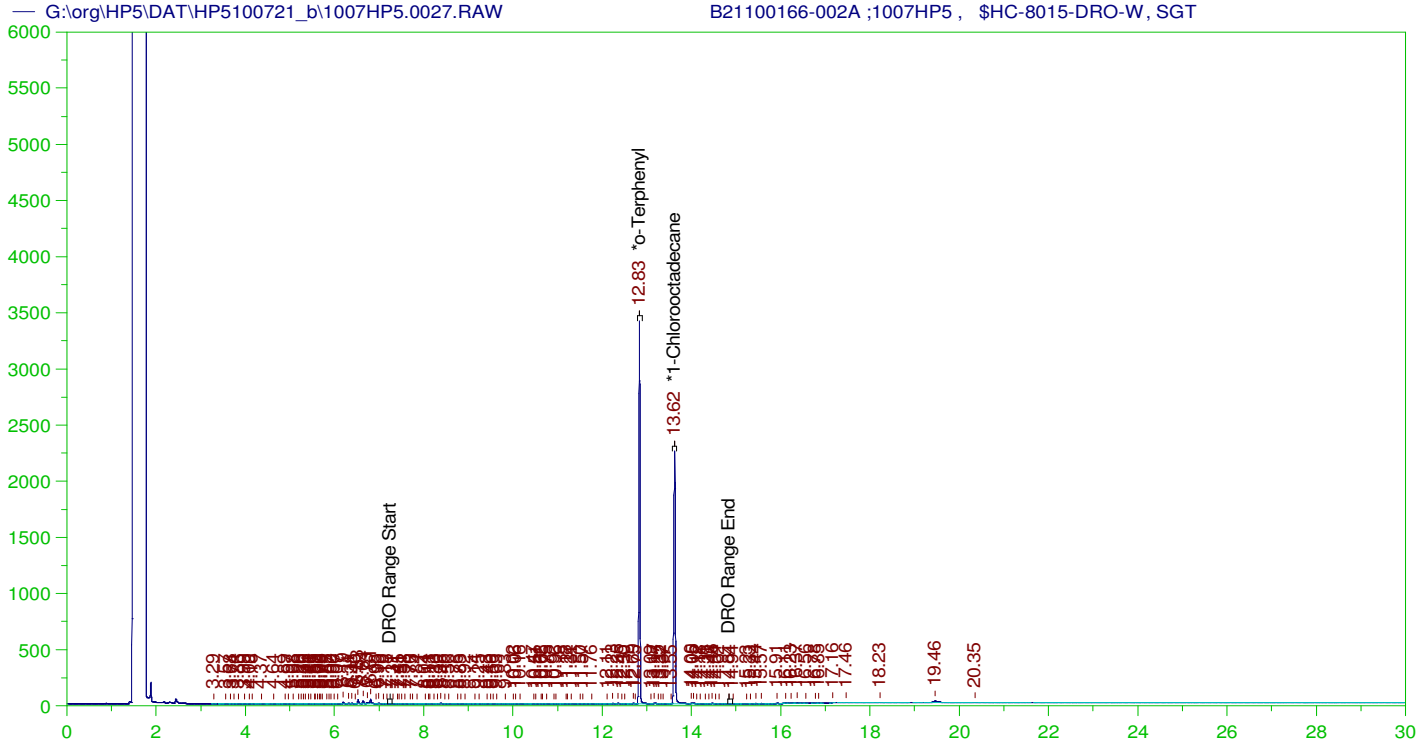
~~RRO~~ Oil Range(SGT-C24-C40)Area:146401.4 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 5.078473E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\026_B21100166-001A_DR_OIL-S-AI-L%.xls

**ERH1765 (RHMW09)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0027.RAW B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0027.RAW
Date & Time Acquired: 10/8/2021 5:55:27 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

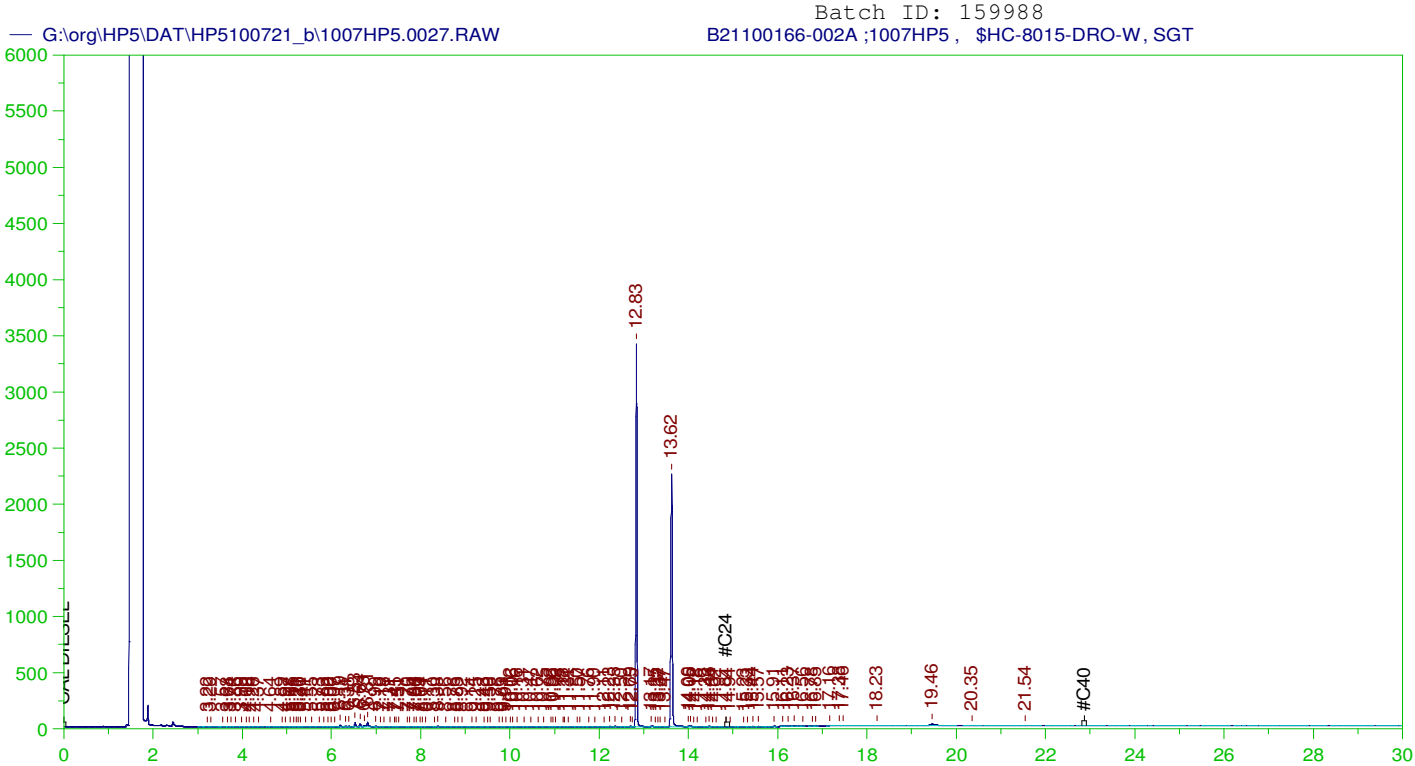
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.832 | .192 | .18 | 93.58 | - |
| *1-Chlorooctadecane | 13.617 | .192 | .134 | 69.87 | - |

DRO (SGT-C10-C24)Area:205282.1 DRO (SGT-C10-C24)Amount: 6.700766E-03
TEH (SGT)Area:768952.3 TEH (SGT)Amount: 2.509994E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\027_B21100166-002A_DR_8015-C24-HR-L%.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0027.RAW
Date & Time Acquired: 10/8/2021 5:55:27 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

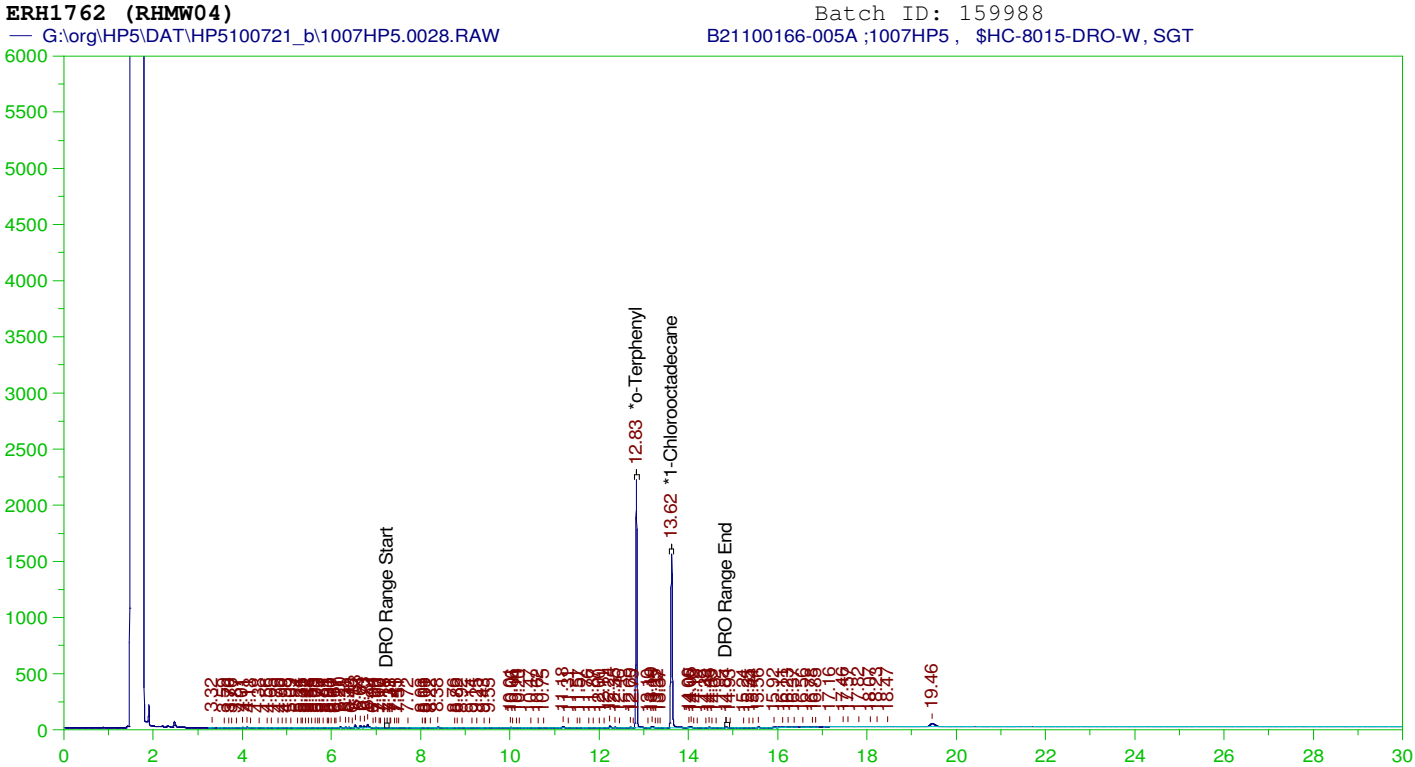
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:170797.3 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 5.753828E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\027_B21100166-002A_DR_OIL-S-AI-L%.xls

**ERH1762 (RHMW04)** Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0028.RAW
Date & Time Acquired: 10/8/2021 6:43:04 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | .194 | .118 | 60.96 | - |
| *1-Chlorooctadecane | 13.618 | .194 | .094 | 48.32 | - |

DRO (SGT-C10-C24)Area:297066.8 DRO(SGT-C10-C24)Amount: 9.790919E-03
TEH (SGT)Area:938954.4 TEH (SGT)Amount: 3.094667E-02

AMN 10/17/2021

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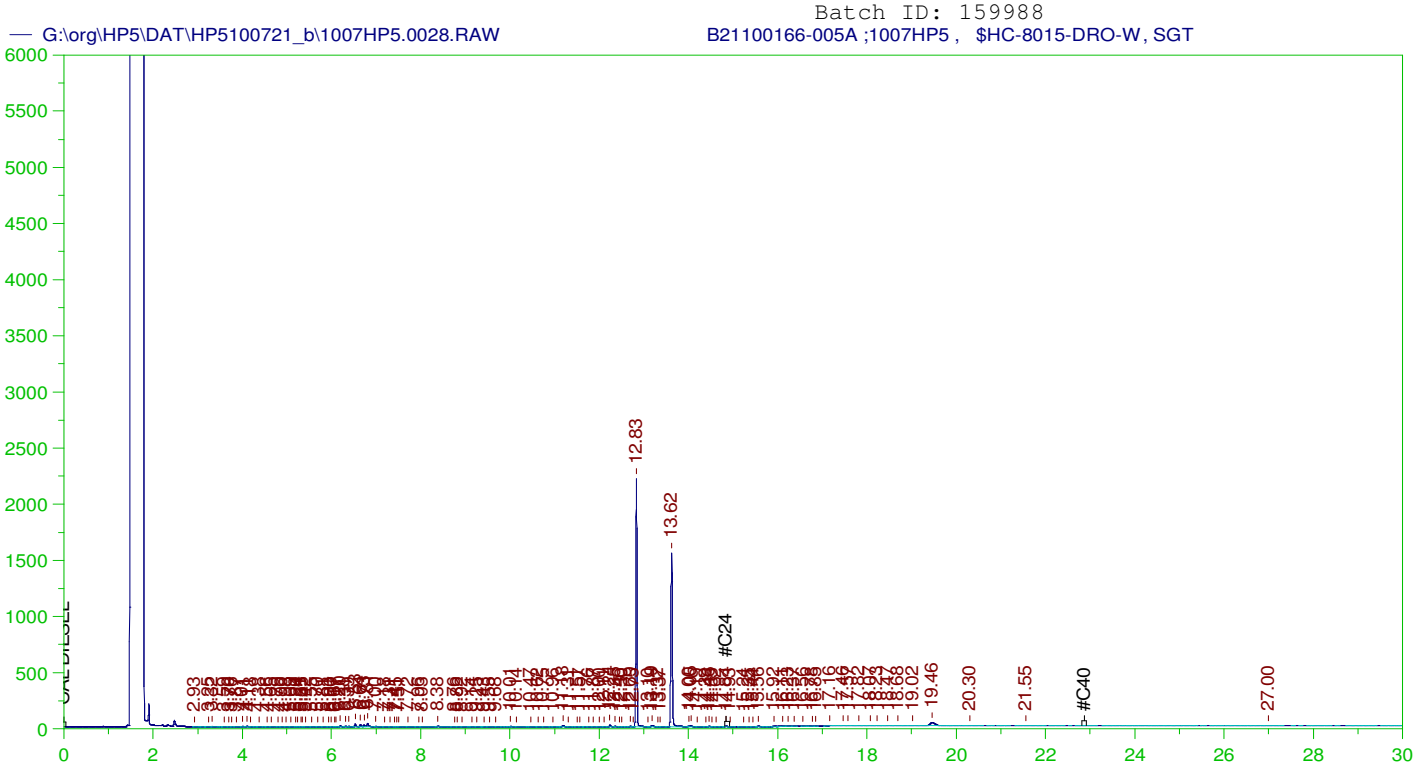
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0028.RAW
Date & Time Acquired: 10/8/2021 6:43:04 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:313722.8 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 1.067132E-02

AMN 10/17/2021

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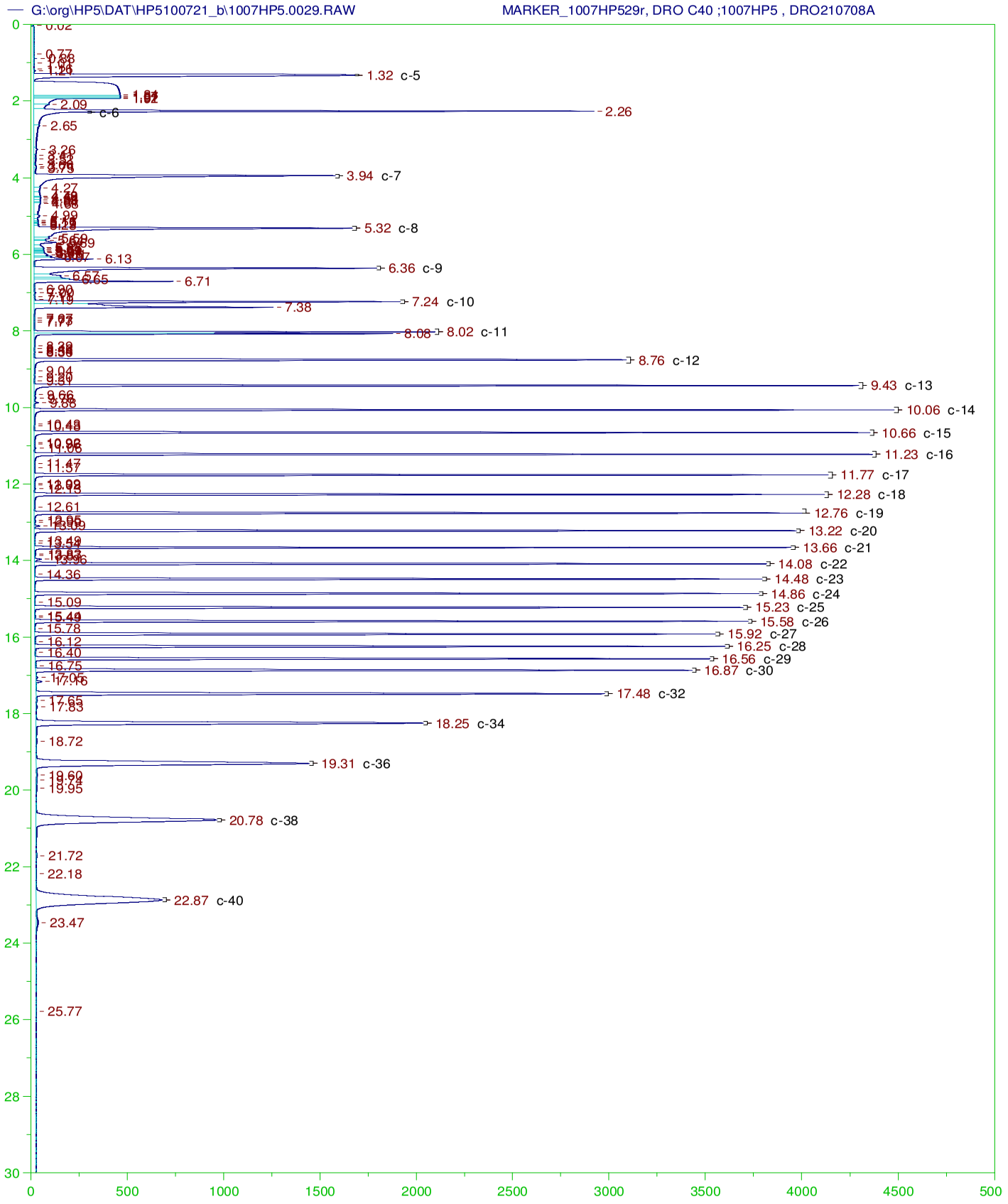
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MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A
1.32 c-5
2.26 c-6
3.94 c-7
5.32 c-8
6.36 c-9
7.24 c-10
8.02 c-11
8.76 c-12
9.43 c-13
10.06 c-14
10.66 c-15
11.23 c-16
11.77 c-17
12.28 c-18
12.76 c-19
13.22 c-20
13.66 c-21
14.08 c-22
14.48 c-23
14.86 c-24
15.23 c-25
15.58 c-26
15.92 c-27
16.25 c-28
16.56 c-29
16.87 c-30
17.48 c-32
18.25 c-34
19.31 c-36
20.78 c-38
22.87 c-40
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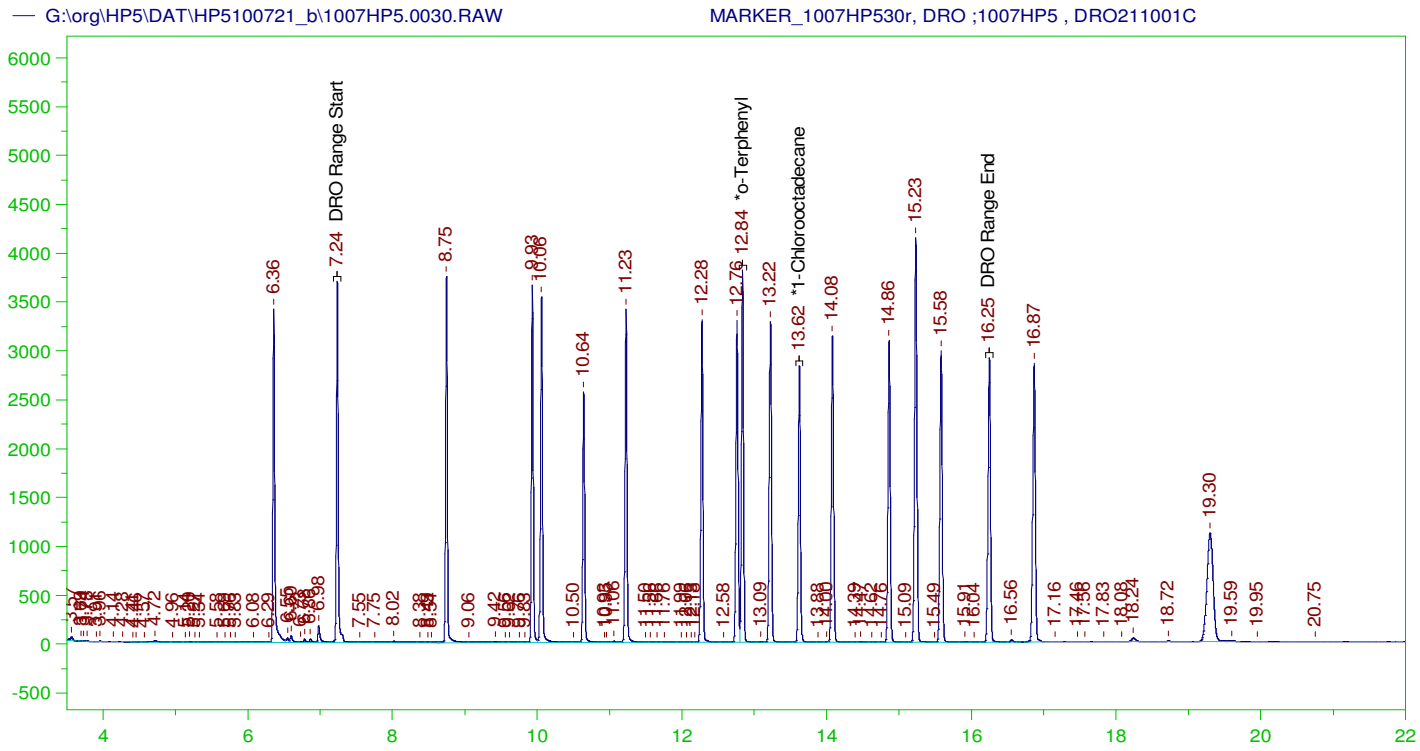



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

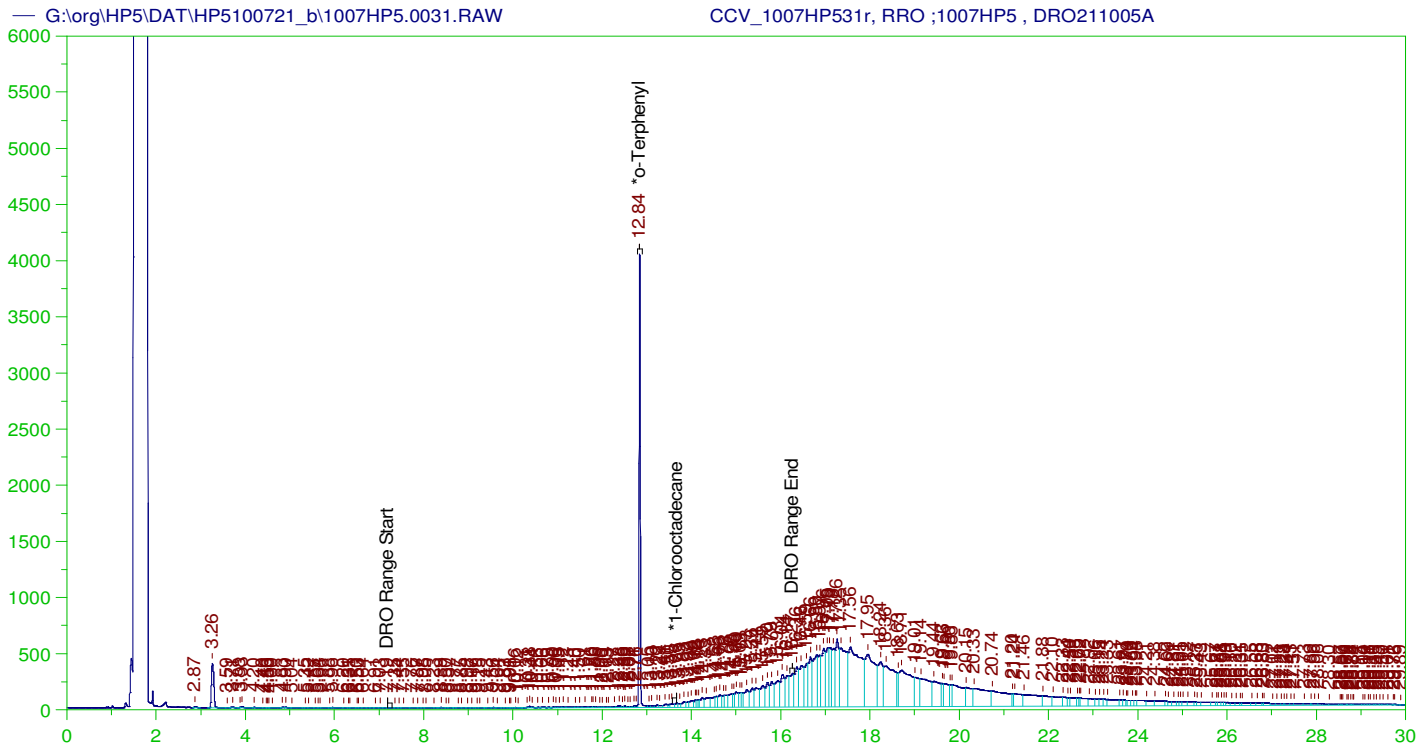
Sample Name: MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0030.RAW
Date & Time Acquired: 10/8/2021 8:16:00 AM
Method File: G:\Org\HP5\Methods\DC_8015-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.837 | .2 | .209 | 104.34 | - |
| *1-Chlorooctadecane | 13.623 | .2 | .169 | 84.37 | - |

DRO Area:9.51296E+07 DRO Amount: 3.229403
TEH Area:1.213937E+08 TEH Amount: 4.121

G:\org\HP5\dat\HP5100721_b\Review\030_MARKER_1007HP530r_DC_8015-HR-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP531r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0031.RAW
Date & Time Acquired: 10/8/2021 9:02:45 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AI-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 225.236 | 112.62 | - |
| *1-Chlorooctadecane | 13.66 | 200. | 4.392 | 2.2 | - |

DRO Area:2.243381E+07 DRO Amount: 785.9817
TEH (Oil Range) Area:1.312489E+08 TEH (Oil Range) Amount: 4598.383

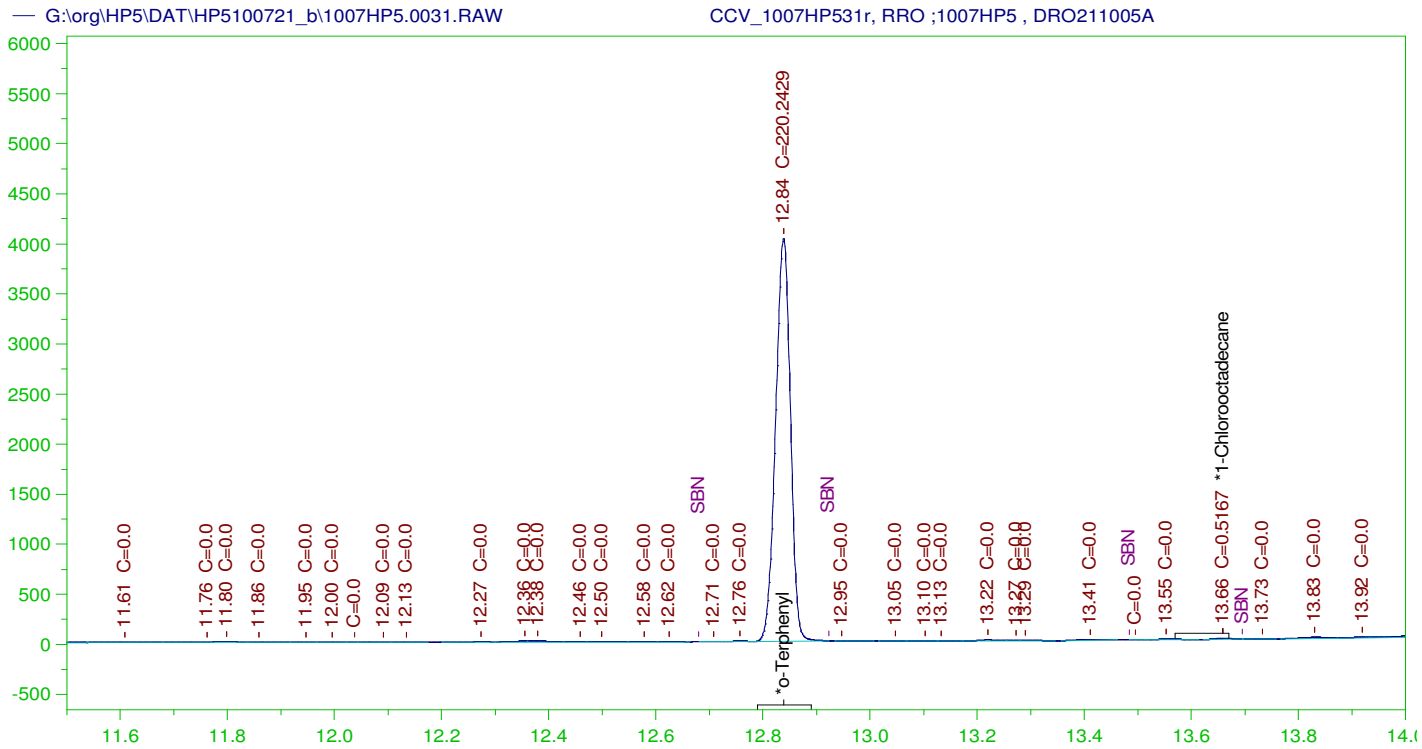
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0031.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4598.38 | 91.97 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 225.236 | 112.62 | 85-115 |
| *1-Chlorooctadecane | 13.66 | 200. | 4.392 | 2.2 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\031_CCV_1007HP531r_DC_OIL-AI-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP531r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0031.RAW
Date & Time Acquired: 10/8/2021 9:02:45 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 220.243 | 110.12 | - |
| *1-Chlorooctadecane | 13.66 | 200. | .517 | .26 | - |

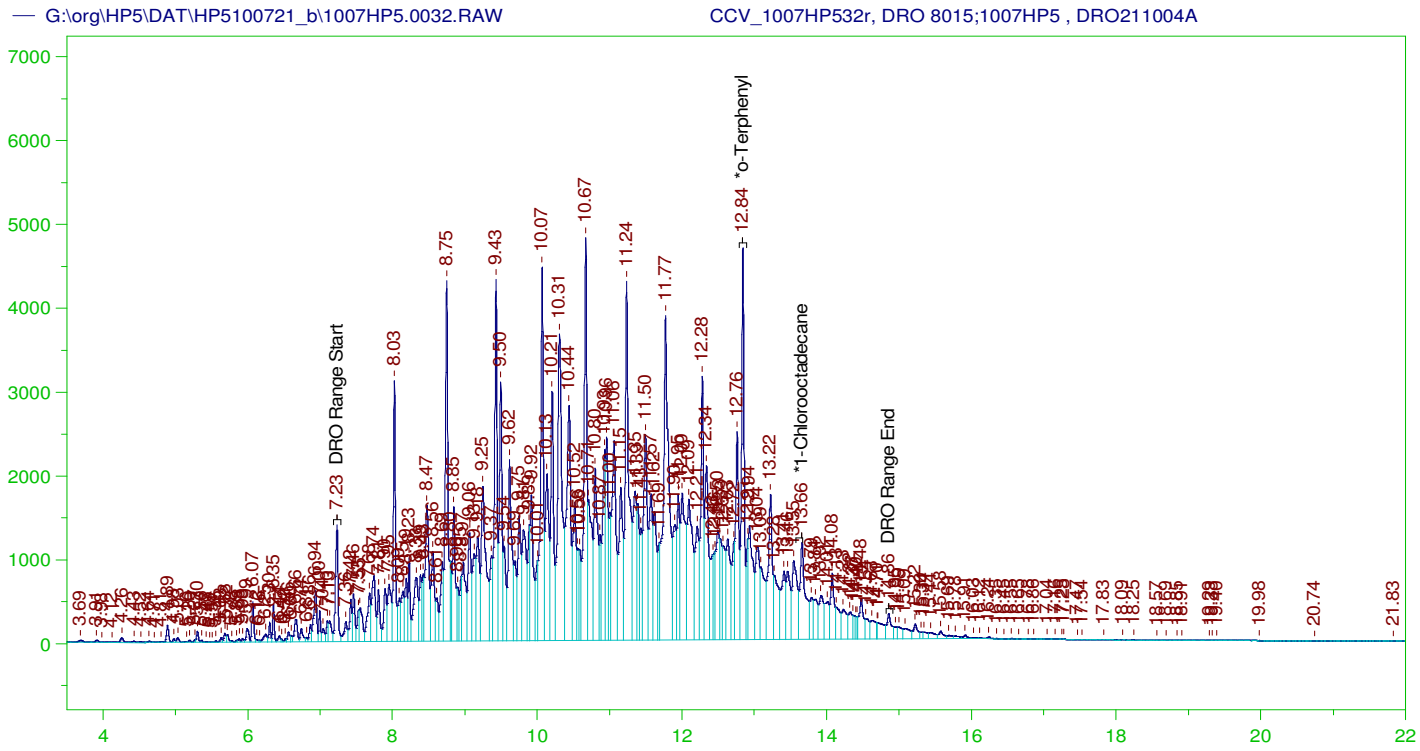
DRO Area:1545693 DRO Amount: 54.15427
TEH Area:3213057 TEH Amount: 112.5713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0031.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 112.57 | 2.25 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 220.243 | 110.12 | 85-115 |
| *1-Chlorooctadecane | 13.66 | 200. | .517 | .26 | 85-115 |

G:\org\HP5\dat\HP5100721_b\Review\031_CCV_1007HP531r_DS_OIL-AI-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0032.RAW
Date & Time Acquired: 10/8/2021 9:50:29 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 336.608 | 168.3 | - |
| *1-Chlorooctadecane | 13.658 | 200. | 161.978 | 80.99 | - |

DRO (C10-C24)Area:4.795326E+08 DRO (C10-C24)Amount: 16278.89
TEH Area:4.959475E+08 TEH Amount: 16836.13

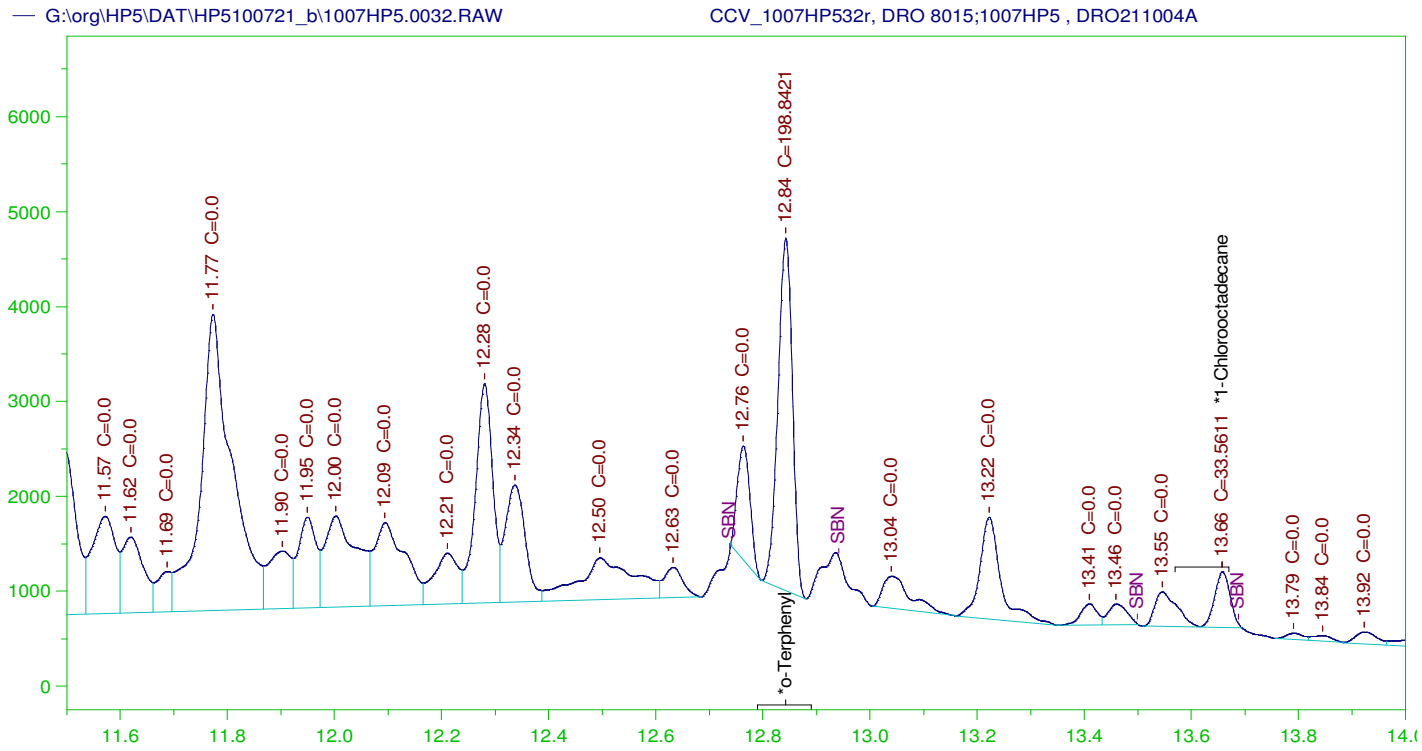
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0032.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16836.13 | 112.24 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 336.608 | 168.3 | 85-115 |
| *1-Chlorooctadecane | 13.658 | 200. | 161.978 | 80.99 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\032_CCV_1007HP532r_DC_8015-C24-HR-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0032.RAW
Date & Time Acquired: 10/8/2021 9:50:29 AM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 198.842 | 99.42 | - |
| *1-Chlorooctadecane | 13.658 | 200. | 33.561 | 16.78 | - |

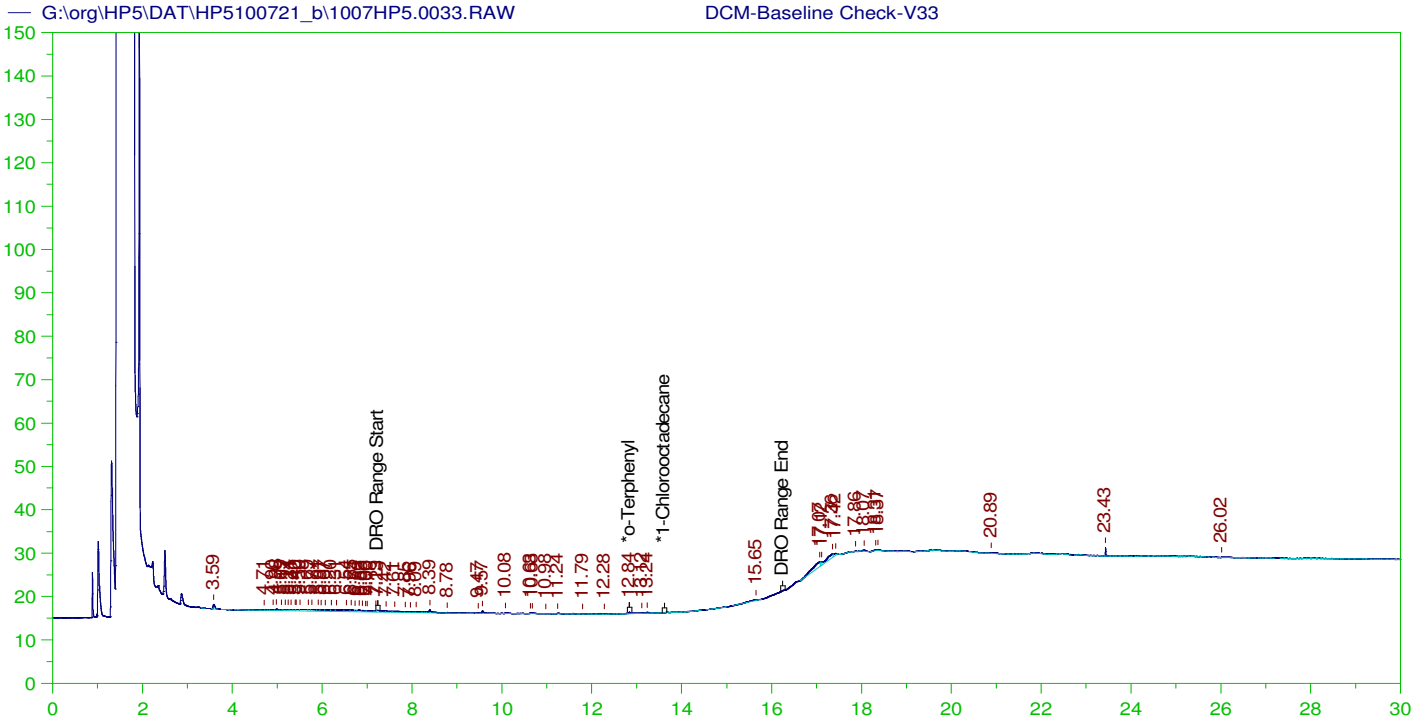
DRO Area:2.667287E+08 DRO Amount: 9054.749
TEH Area:2.771071E+08 TEH Amount: 9407.068

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0032.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9407.07 | 62.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 198.842 | 99.42 | 85-115 |
| *1-Chlorooctadecane | 13.658 | 200. | 33.561 | 16.78 | 85-115 |

G:\org\HP5\dat\HP5100721_b\Review\032_CCV_1007HP532r_DS_8015-HR-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V33
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0033.RAW
Date & Time Acquired: 10/8/2021 10:39:04 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

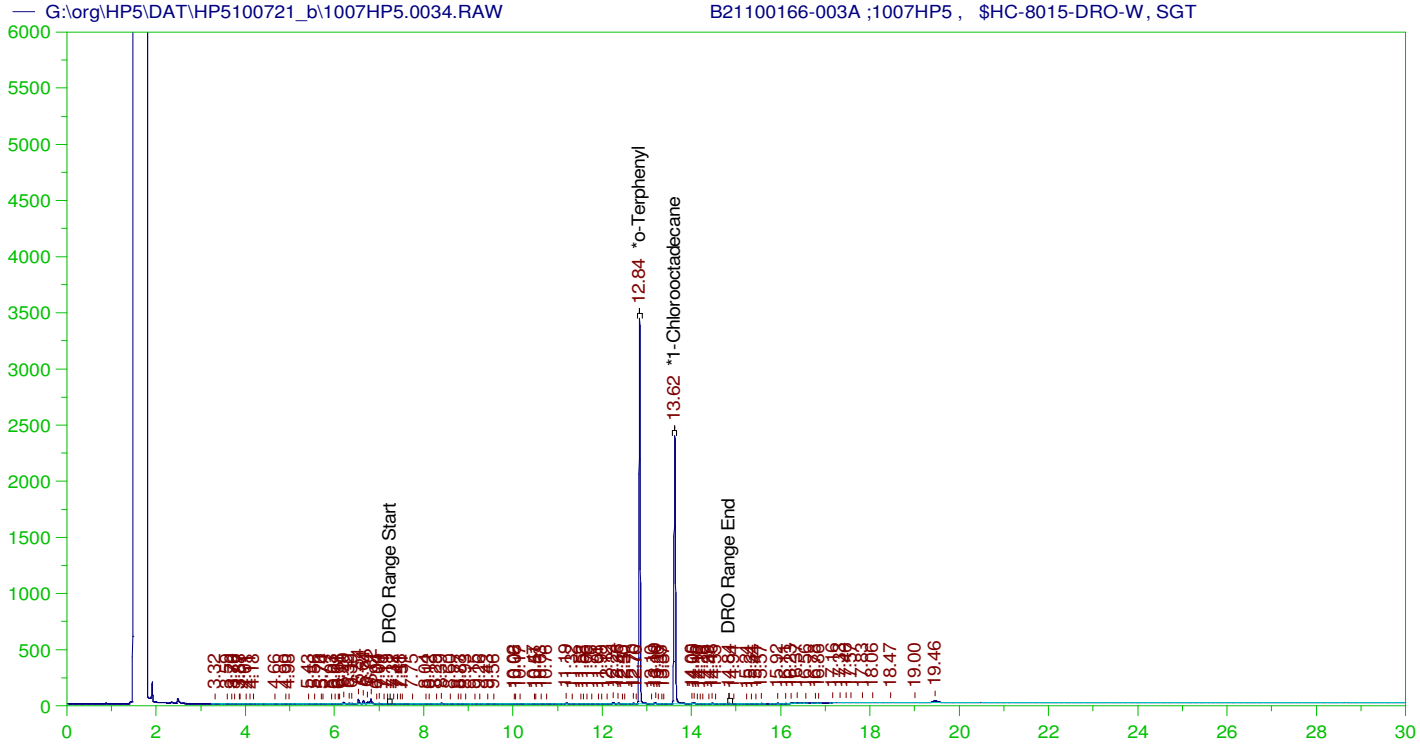
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.84 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.936 | 200. | . | . | - |

DRO Area:35840.48 DRO Amount: 1.216691
TEH Area:143203.8 TEH Amount: 4.861399

G:\org\HP5\dat\HP5100721_b\Review\033_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

**ERH1766 (RHMW10)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0034.RAW B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0034.RAW
Date & Time Acquired: 10/8/2021 11:27:35 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

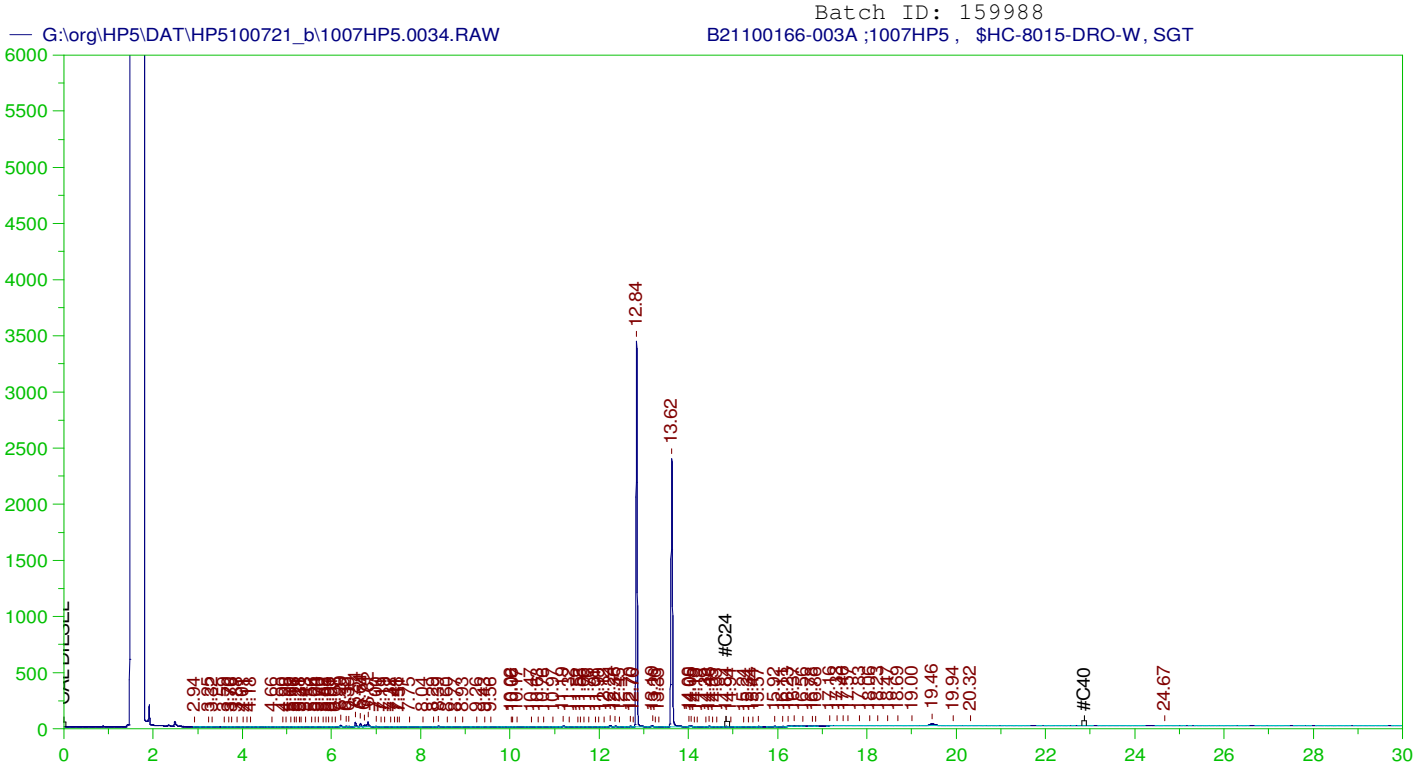
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.837 | .192 | .181 | 94.32 | - |
| *1-Chlorooctadecane | 13.622 | .192 | .142 | 73.98 | - |

DRO (SGT-C10-C24)Area:274683 DRO (SGT-C10-C24)Amount: 8.966131E-03
TEH (SGT)Area:893801.3 TEH (SGT)Amount: 2.917523E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\034_B21100166-003A_DR_8015-C24-HR-L%.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0034.RAW
Date & Time Acquired: 10/8/2021 11:27:35 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

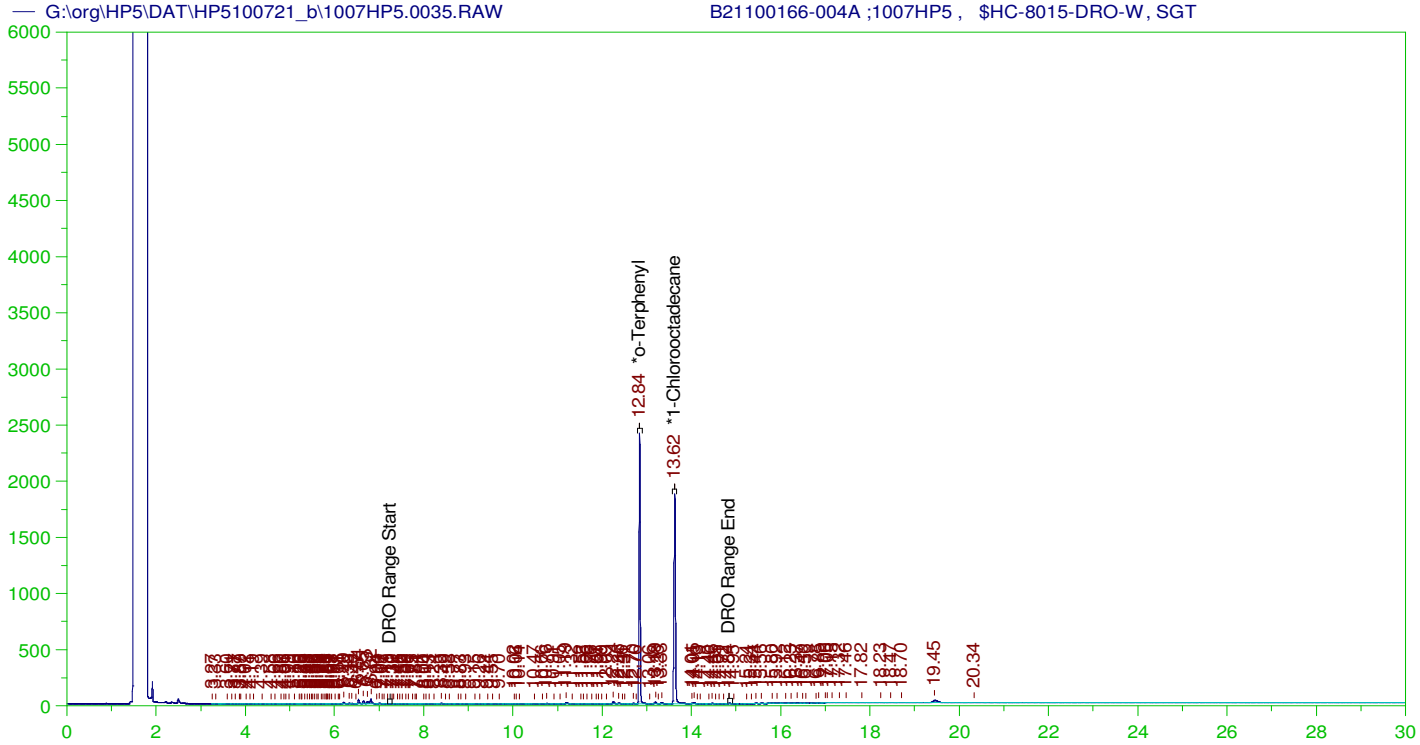
~~RRO~~ Oil Range(SGT-C24-C40)Area:230258.7 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 7.756968E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\034_B21100166-003A_DR_OIL-S-AI-L%.xls

**ERH1769 (RHMW19)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0035.RAW B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0035.RAW
Date & Time Acquired: 10/8/2021 12:16:07 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

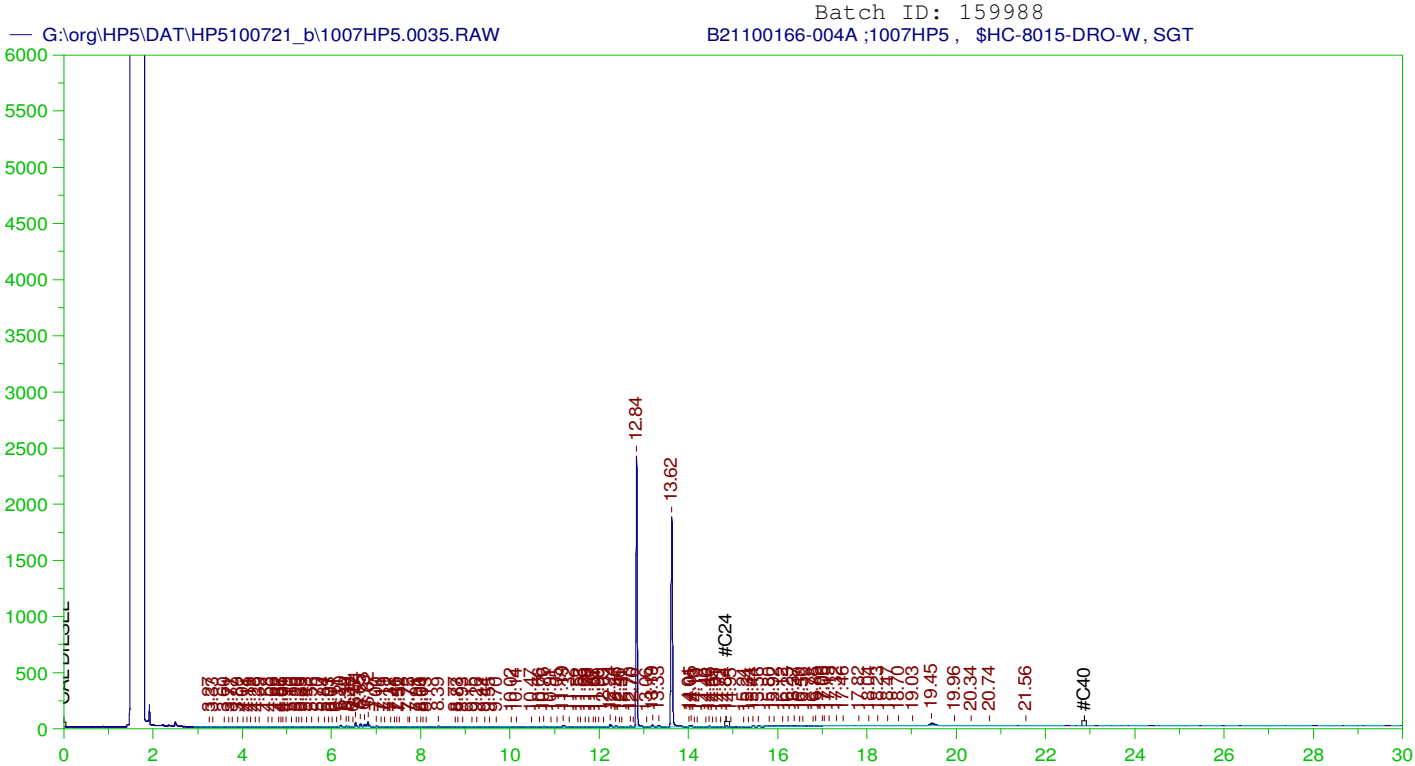
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | .196 | .129 | 66.03 | - |
| *1-Chlorooctadecane | 13.621 | .196 | .114 | 58.27 | - |

DRO (SGT-C10-C24)Area:370105.9 DRO (SGT-C10-C24)Amount: 1.231778E-02
TEH (SGT)Area:1125749 TEH (SGT)Amount: 3.746692E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\035_B21100166-004A_DR_8015-C24-HR-L%.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0035.RAW
Date & Time Acquired: 10/8/2021 12:16:07 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

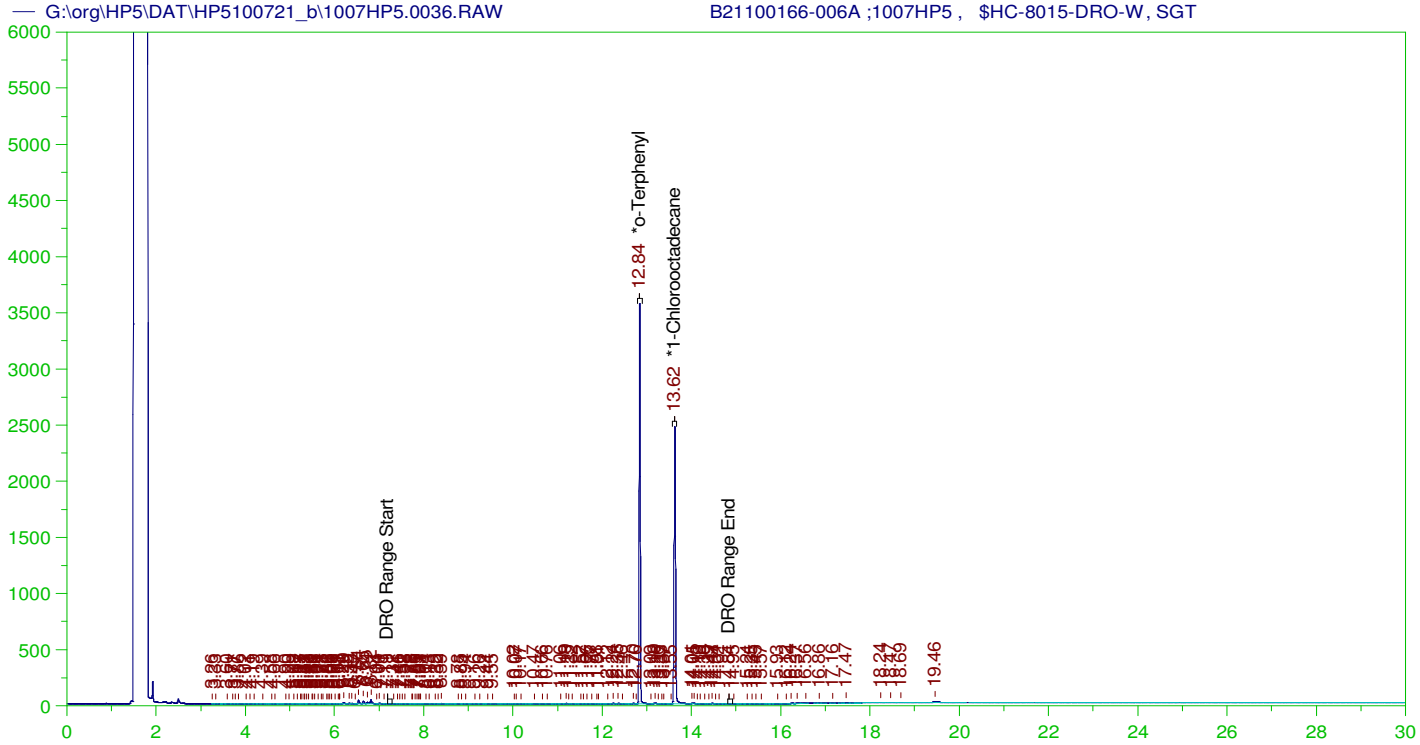
~~RRO~~ Oil Range(SGT-C24-C40)Area:289068.1 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 9.929088E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\035_B21100166-004A_DR_OIL-S-AI-L%.xls

**ERH1763 (RHMW06)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0036.RAW B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0036.RAW
Date & Time Acquired: 10/8/2021 1:02:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.839 | .196 | .191 | 97.61 | - |
| *1-Chlorooctadecane | 13.623 | .196 | .151 | 77.18 | - |

DRO (SGT-C10-C24)Area:250125.3 DRO (SGT-C10-C24)Amount: 8.324613E-03
TEH (SGT)Area:805769.7 TEH (SGT)Amount: 2.681744E-02

AMN 10/17/2021

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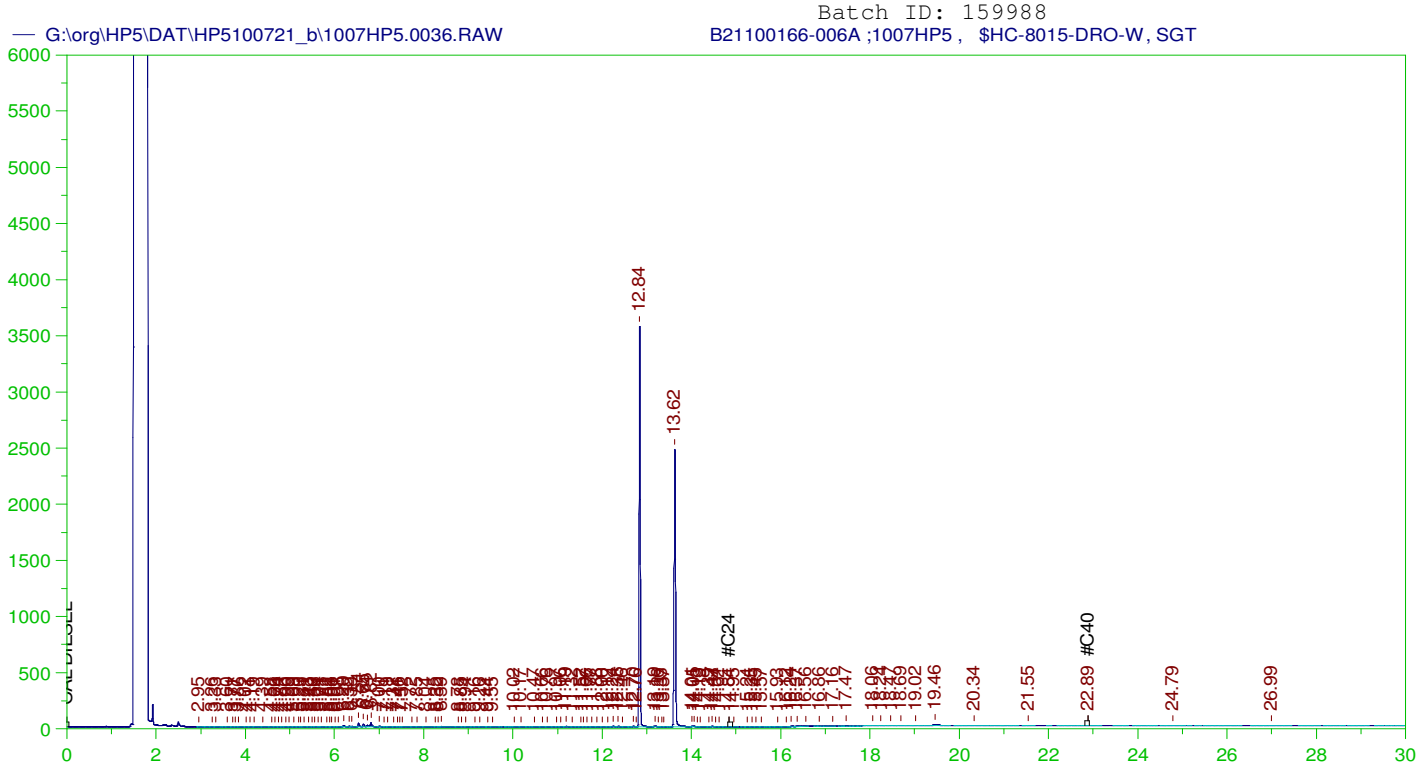
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0036.RAW
Date & Time Acquired: 10/8/2021 1:02:38 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

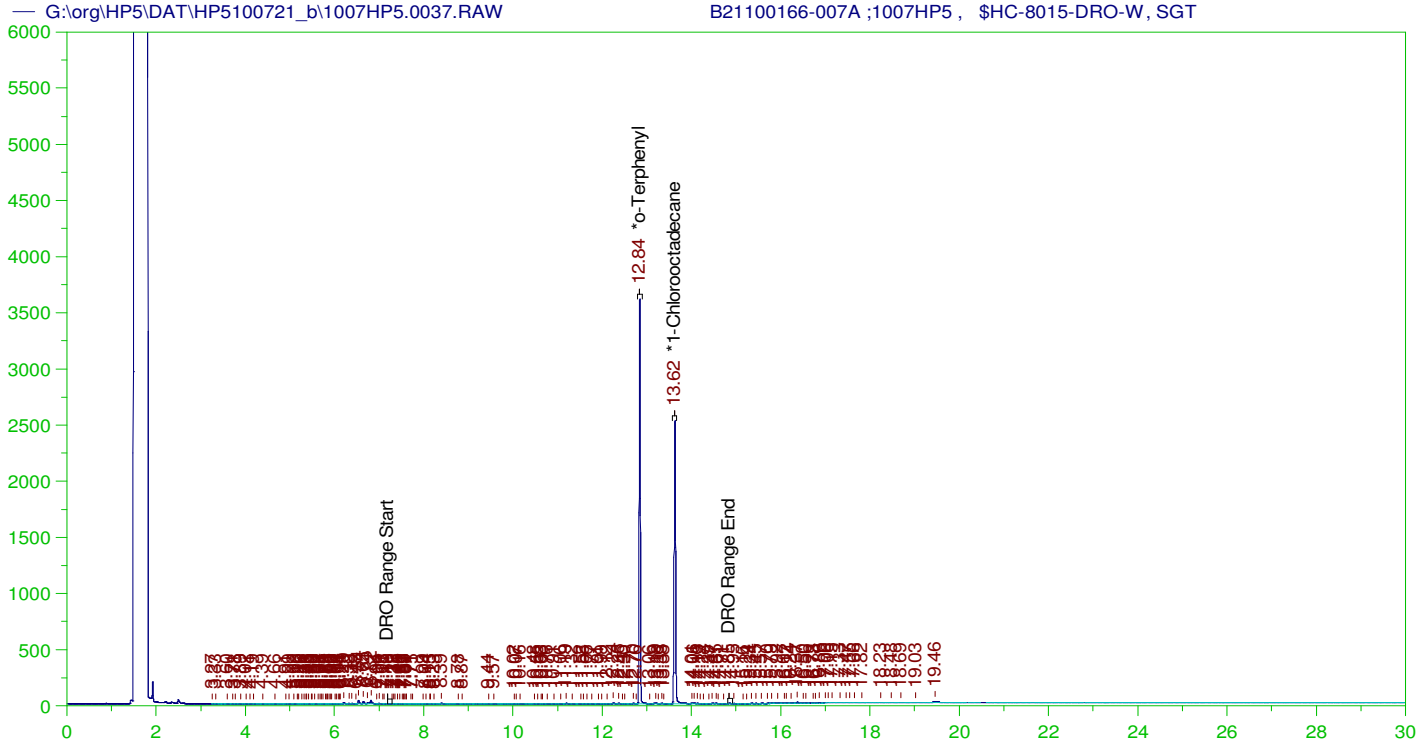
~~RRO~~ Oil Range(SGT-C24-C40)Area:157305.4 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 5.403222E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\036_B21100166-006A_DR_OIL-S-AI-L%.xls

**ERH1768 (RHMW16)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0037.RAW B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0037.RAW
Date & Time Acquired: 10/8/2021 1:49:04 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

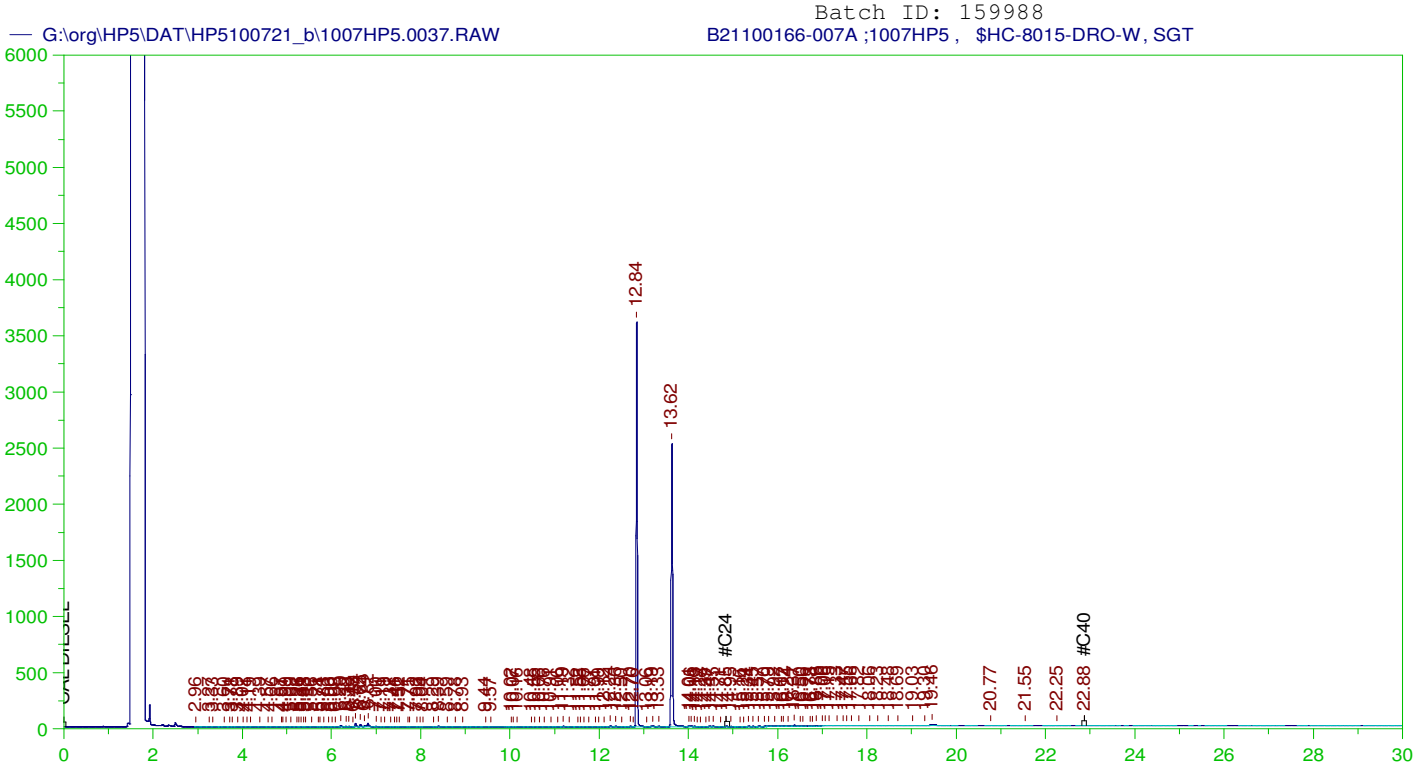
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.839 | .192 | .189 | 98.09 | - |
| *1-Chlorooctadecane | 13.625 | .192 | .151 | 78.48 | - |

DRO (SGT-C10-C24)Area:293540.4 DRO (SGT-C10-C24)Amount: 9.581668E-03
TEH (SGT)Area:875291.1 TEH (SGT)Amount: 2.857102E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\037_B21100166-007A_DR_8015-C24-HR-L%.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0037.RAW
Date & Time Acquired: 10/8/2021 1:49:04 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

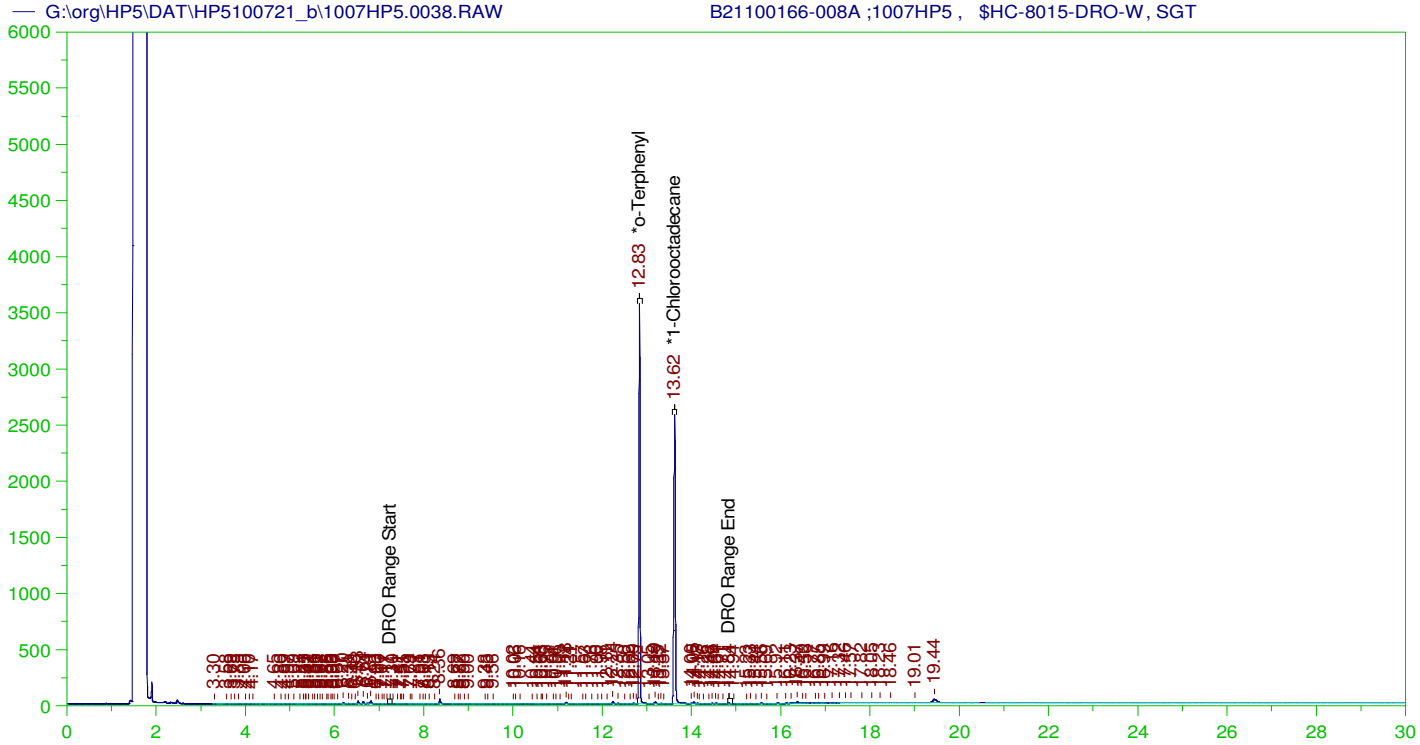
~~RRO~~ Oil Range(SGT-C24-C40)Area:230458.7 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 7.763708E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\037_B21100166-007A_DR_OIL-S-AI-L%.xls

**ERH1770 (OWDFMW01)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0038.RAW B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0038.RAW
Date & Time Acquired: 10/8/2021 2:37:07 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

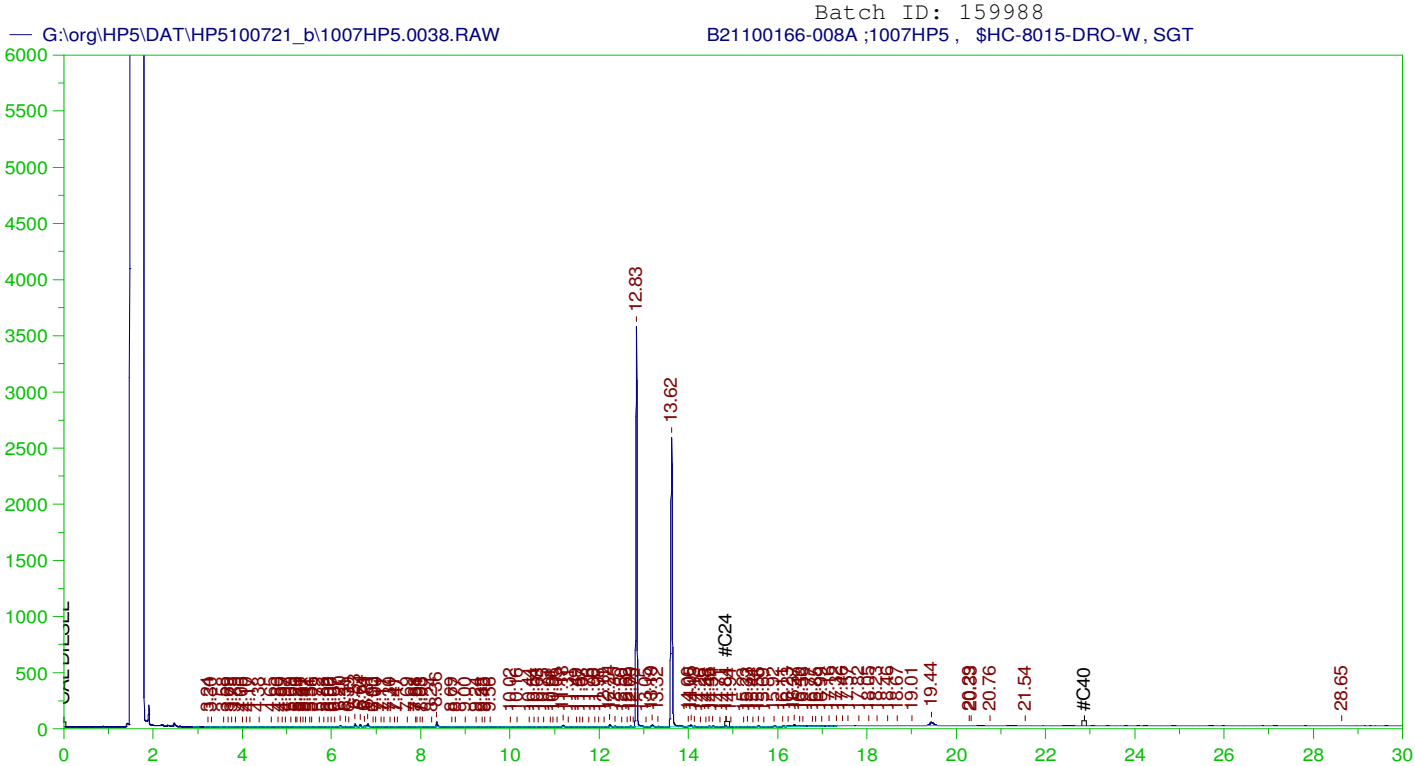
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | .19 | .185 | 97.48 | - |
| *1-Chlorooctadecane | 13.618 | .19 | .152 | 79.94 | - |

DRO (SGT-C10-C24)Area:520381.4 DRO (SGT-C10-C24)Amount: 1.674465E-02
TEH (SGT)Area:1196080 TEH (SGT)Amount: 3.848703E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\038_B21100166-008A_DR_8015-C24-HR-L%.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0038.RAW
Date & Time Acquired: 10/8/2021 2:37:07 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

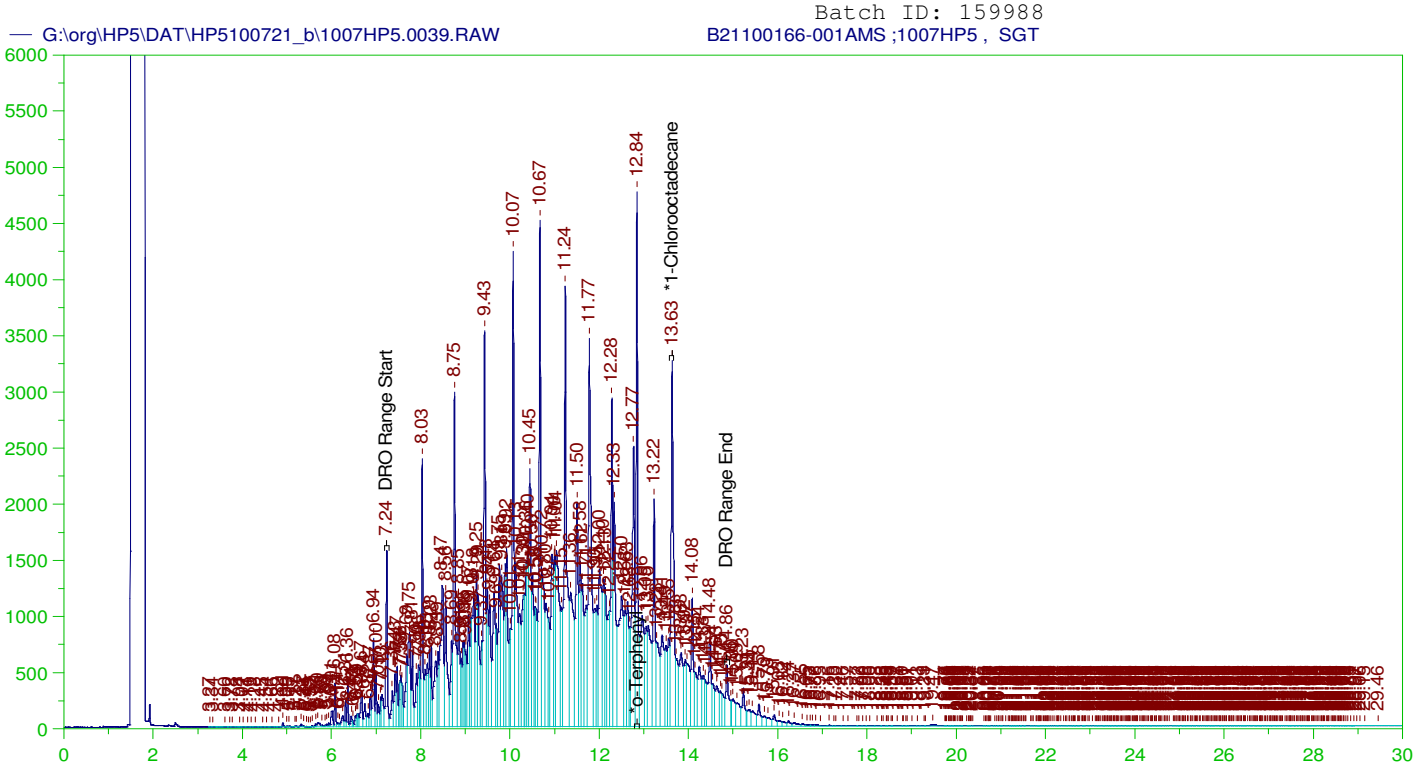
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:389482.6 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 1.293436E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\038_B21100166-008A_DR_OIL-S-AI-L%.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMS ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0039.RAW
Date & Time Acquired: 10/8/2021 3:23:49 PM
Method File: G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.91

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.843 | .392 | .696 | 177.42 | - |
| *1-Chlorooctadecane | 13.628 | .392 | .685 | 174.73 | - |

DRO (SGT-C10-C24)Area:4.214479E+08 DRO (SGT-C10-C24)Amount: 28.05307
TEH (SGT)Area:4.454884E+08 TEH (SGT)Amount: 29.65329

AMN 10/17/2021

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Batch ID: 159988

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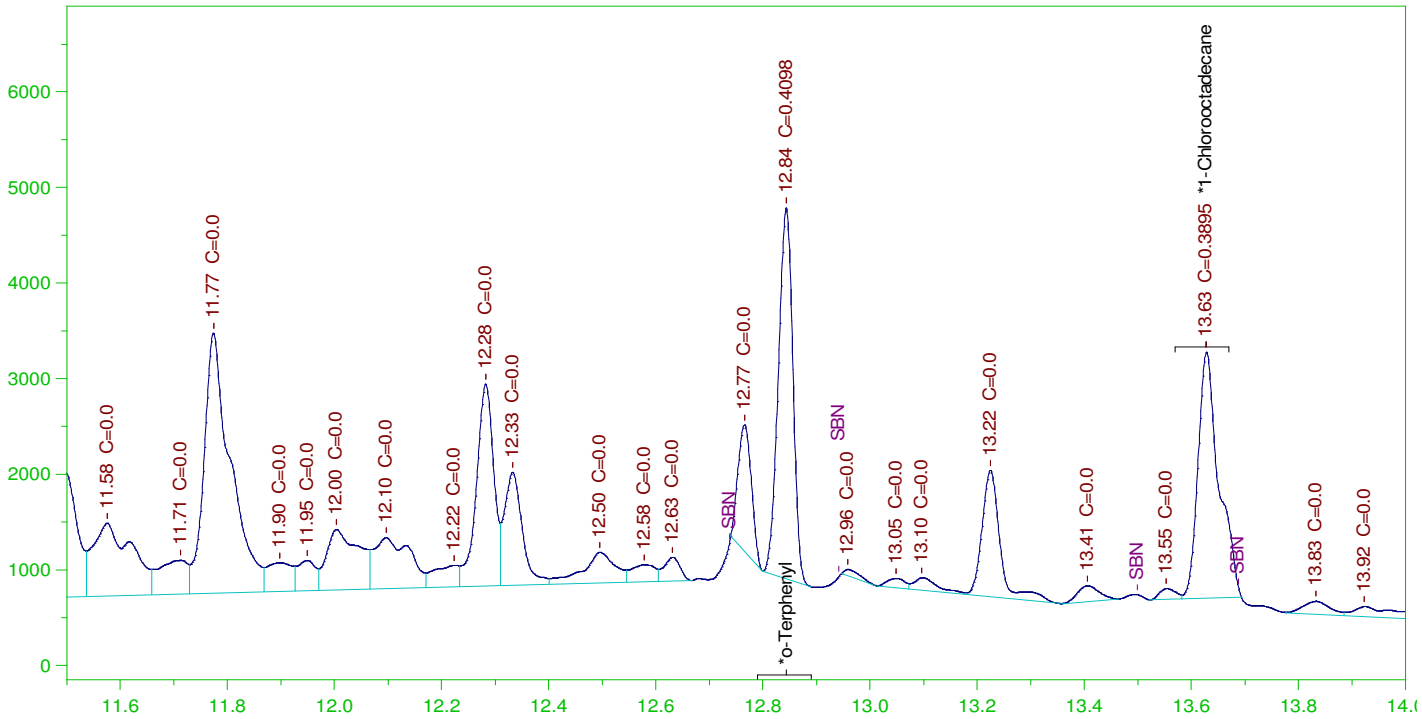



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMS ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0039.RAW
Date & Time Acquired: 10/8/2021 3:23:49 PM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

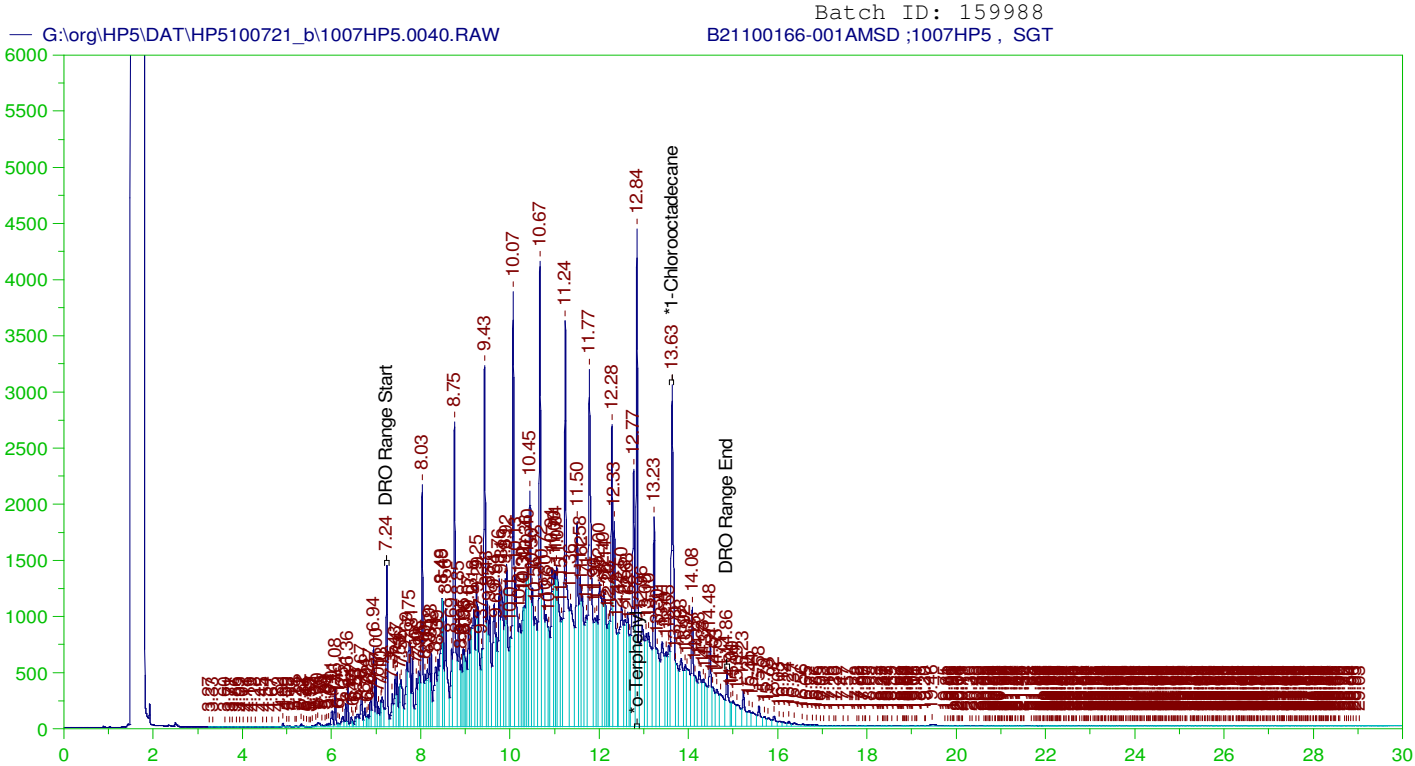
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.843 | .392 | .41 | 104.5 | - |
| *1-Chlorooctadecane | 13.628 | .392 | .39 | 99.33 | - |

DRO Area:2.030686E+08 DRO Amount: 13.51696
TEH Area:2.126636E+08 TEH Amount: 14.15564

G:\org\HP5\dat\HP5100721_b\Review\039_B21100166-001AMS_DS_8015-HR-L#.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMSD ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0040.RAW
Date & Time Acquired: 10/8/2021 4:11:27 PM
Method File: G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.91

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.844 | .392 | .643 | 163.91 | - |
| *1-Chlorooctadecane | 13.629 | .392 | .635 | 161.92 | - |

DRO (SGT-C10-C24)Area:3.857076E+08 DRO (SGT-C10-C24)Amount: 25.67407
TEH (SGT)Area:4.083618E+08 TEH (SGT)Amount: 27.18201

AMN 10/17/2021

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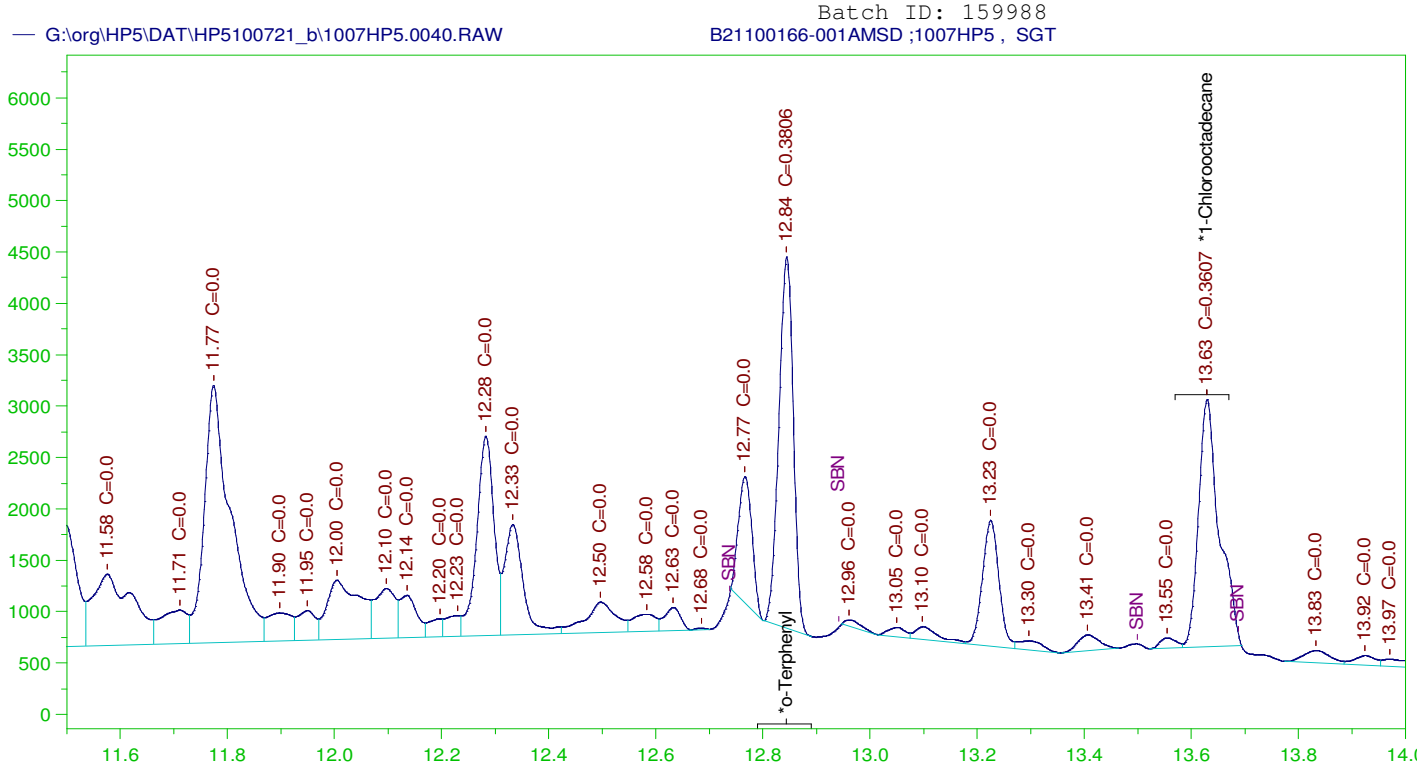
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMSD ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0040.RAW
Date & Time Acquired: 10/8/2021 4:11:27 PM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.844 | .392 | .381 | 97.06 | - |
| *1-Chlorooctadecane | 13.629 | .392 | .361 | 91.98 | - |

DRO Area:1.840827E+08 DRO Amount: 12.2532
TEH Area:1.929852E+08 TEH Amount: 12.84578

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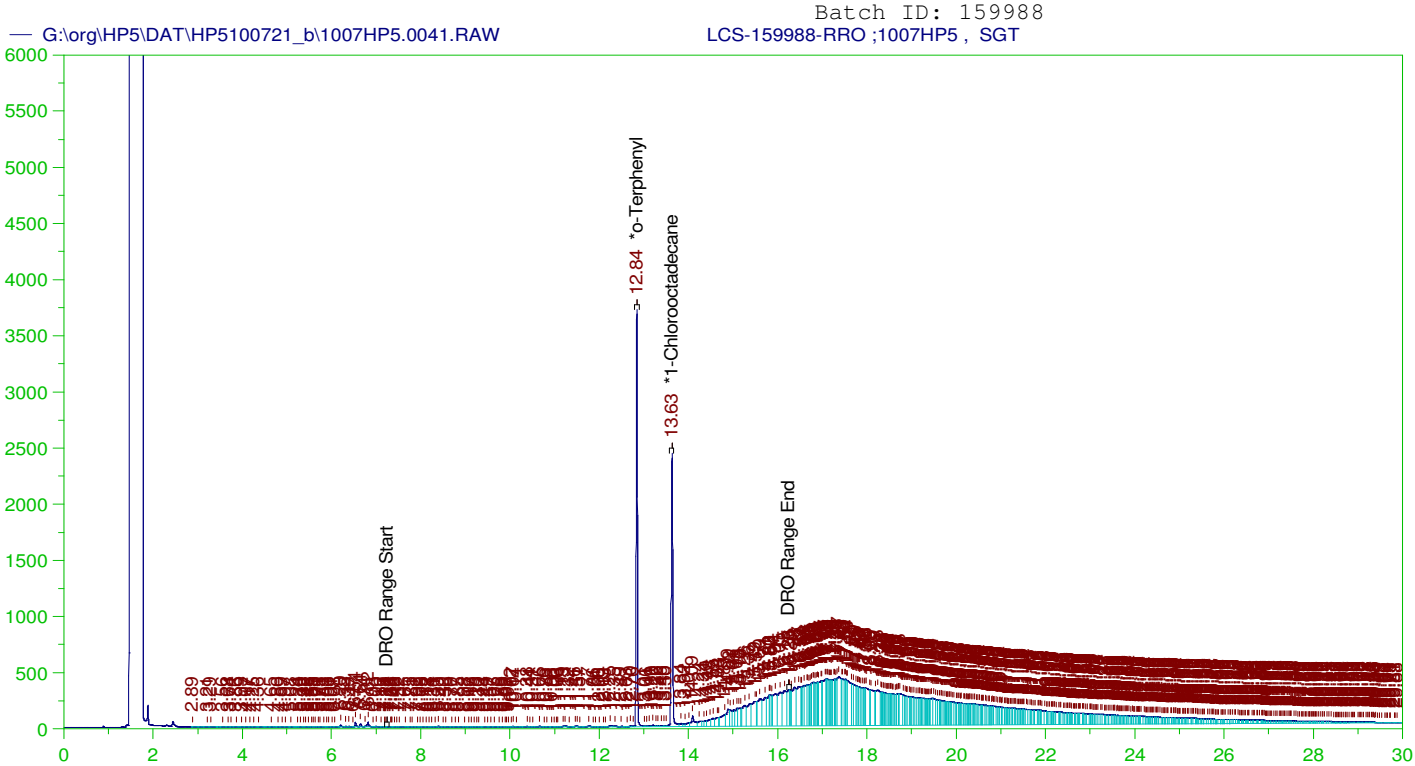
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0041.RAW
Date & Time Acquired: 10/8/2021 5:03:57 PM
Method File: G:\Org\HP5\Methods\D3_OIL-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | .2 | .203 | 101.67 | - |
| *1-Chlorooctadecane | 13.627 | .2 | .157 | 78.37 | - |

DRO Area:2.346369E+07 DRO Amount: 0.8220641
TEH (SGT-OiL Range)Area:1.330542E+08 TEH (SGT-OiL Range)Amount: 4.661633

AMN 10/17/2021

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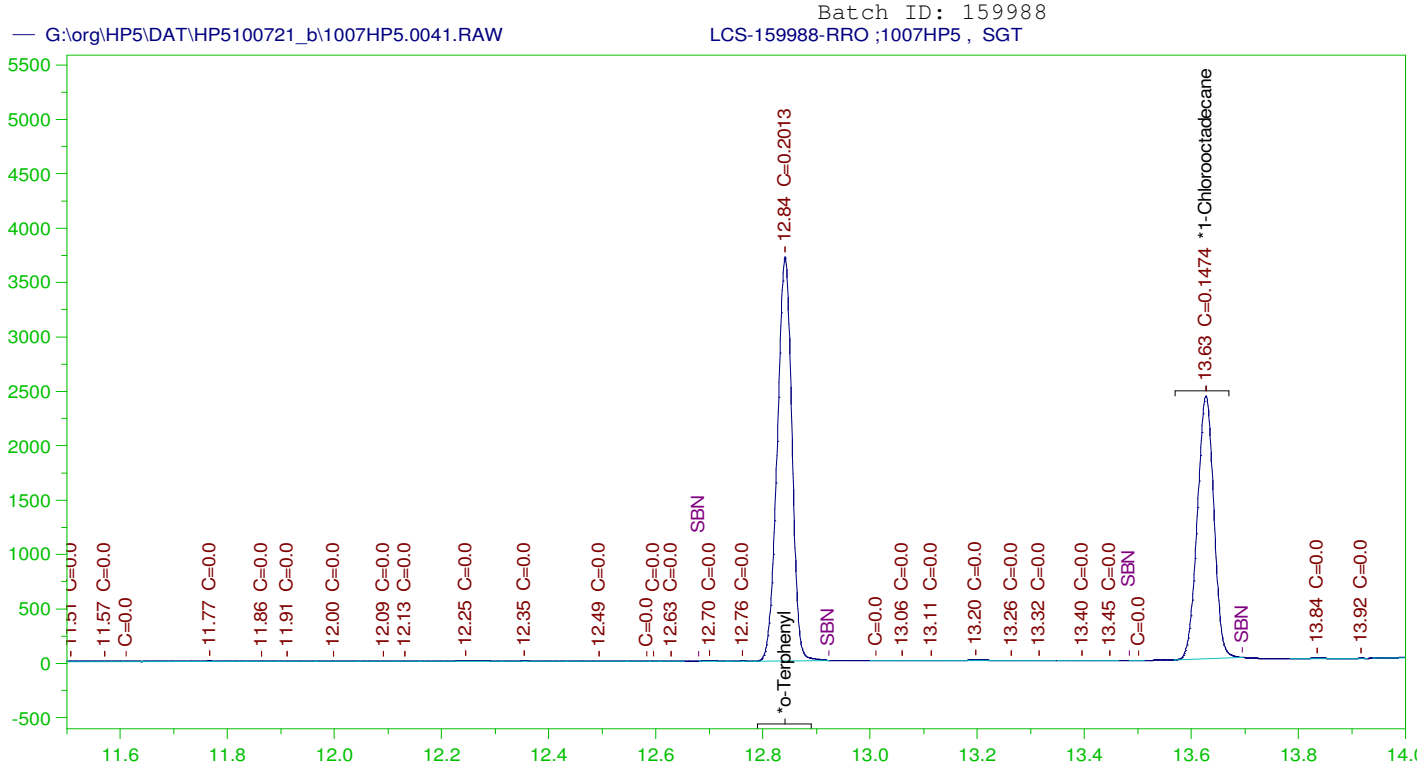
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0041.RAW
Date & Time Acquired: 10/8/2021 5:03:57 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | .2 | .201 | 100.65 | - |
| *1-Chlorooctadecane | 13.627 | .2 | .147 | 73.7 | - |

DRO Area:1458702 DRO Amount: 5.110647E-02
TEH Area:2013772 TEH Amount: 7.055368E-02

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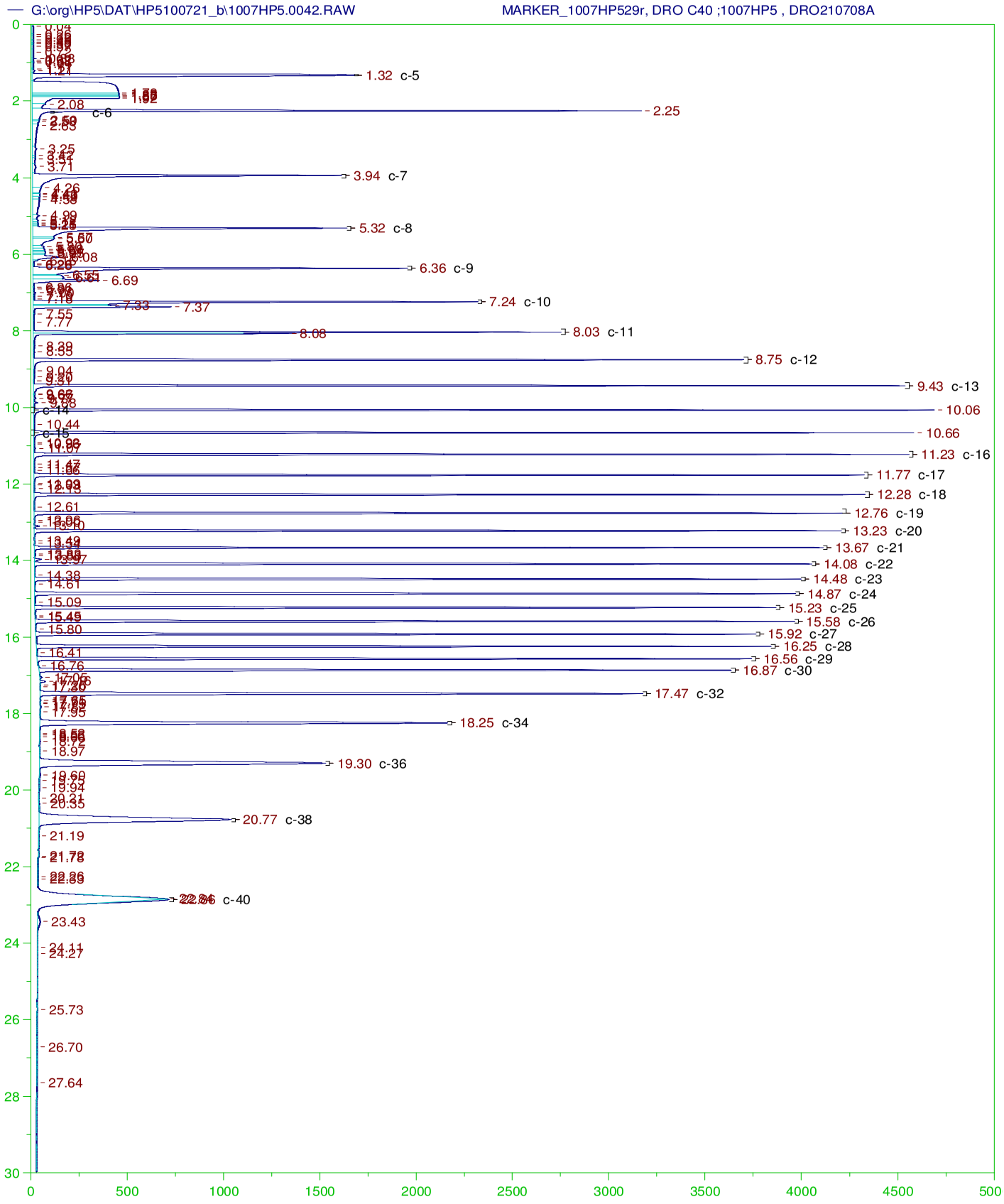
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MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A
1.32 c-5
2.08
c-6
2.25
3.94 c-7
5.32 c-8
6.36 c-9
6.69
7.24 c-10
7.37
8.03 c-11
8.75 c-12
9.43 c-13
c-14
10.06
10.44
c-15
10.66
11.23 c-16
11.77 c-17
12.28 c-18
12.61
12.76 c-19
13.23 c-20
13.67 c-21
14.08 c-22
14.38
14.48 c-23
14.87 c-24
15.09
15.23 c-25
15.58 c-26
15.80
15.92 c-27
16.25 c-28
16.41
16.56 c-29
16.76
16.87 c-30
17.47 c-32
18.25 c-34
18.97
19.30 c-36
20.77 c-38
21.19
c-40
23.43
25.73
26.70
27.64
0
500
1000
1500
2000
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4000
4500
500
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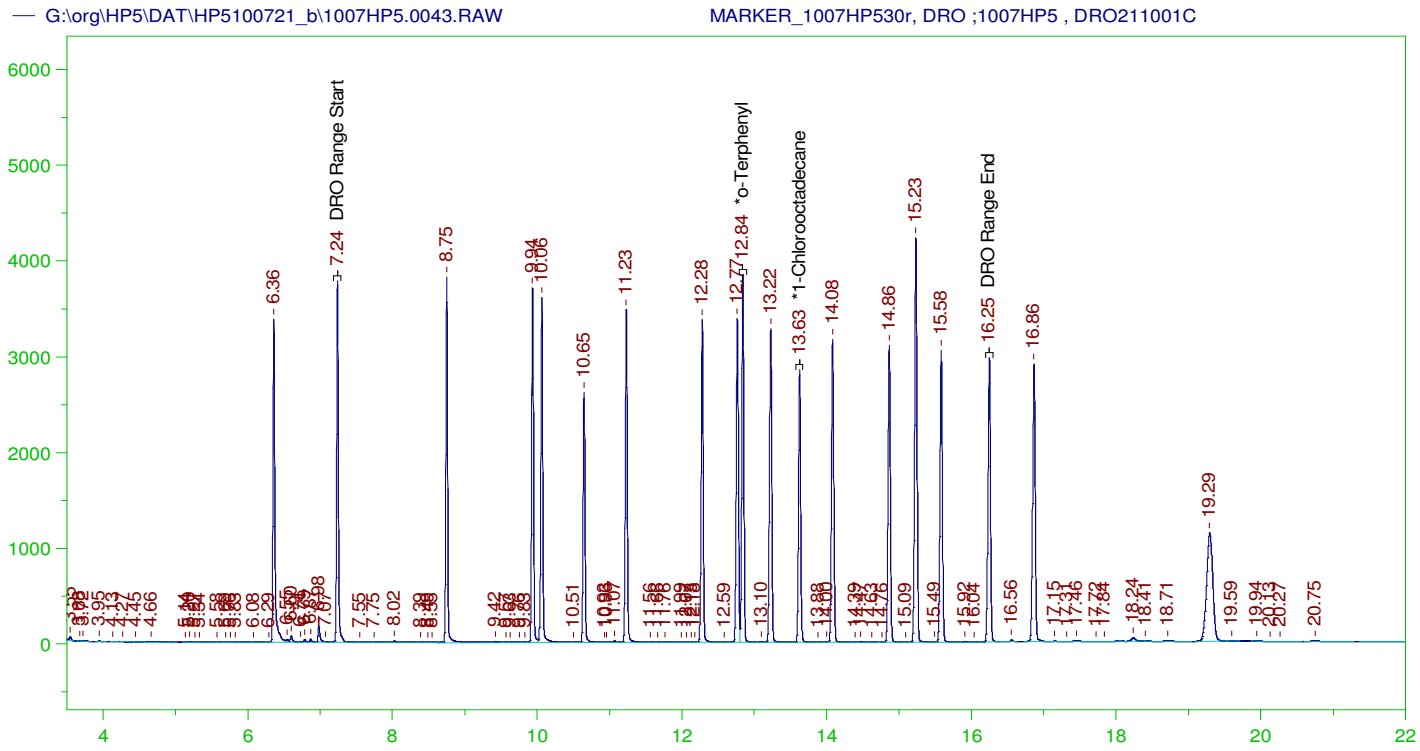


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0043.RAW
Date & Time Acquired: 10/8/2021 6:52:27 PM
Method File: G:\Org\HP5\Methods\DC_8015-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | .2 | .212 | 106.21 | - |
| *1-Chlorooctadecane | 13.626 | .2 | .171 | 85.74 | - |

DRO Area:9.670636E+07 DRO Amount: 3.28293
TEH Area:1.205042E+08 TEH Amount: 4.090804

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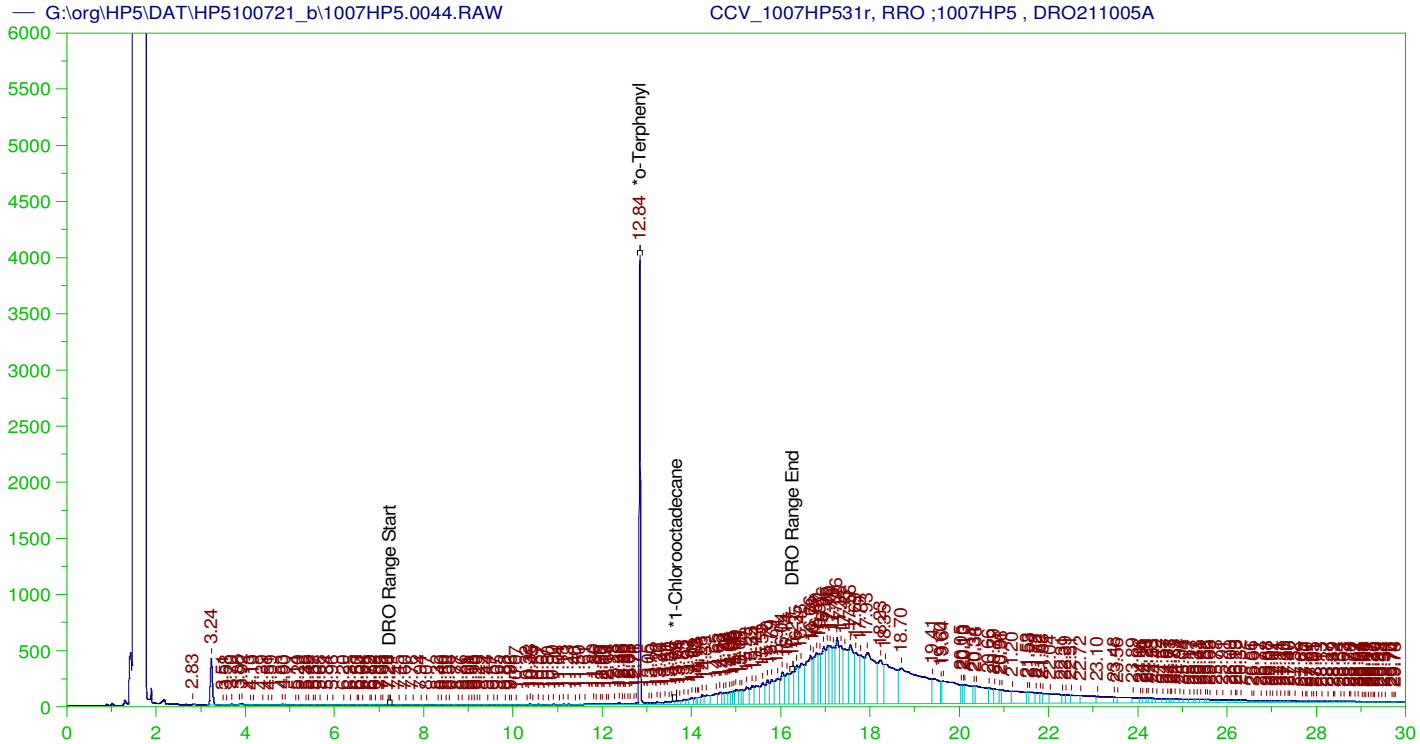


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP531r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0044.RAW
Date & Time Acquired: 10/8/2021 7:44:22 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AI-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | 200. | 221.675 | 110.84 | - |
| *1-Chlorooctadecane | 13.662 | 200. | 4.147 | 2.07 | - |

DRO Area:2.211482E+07 DRO Amount: 774.8056
TEH (Oil Range)Area:1.291513E+08 TEH (Oil Range)Amount: 4524.891

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0044.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4524.89 | 90.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | 200. | 221.675 | 110.84 | 85-115 |
| *1-Chlorooctadecane | 13.662 | 200. | 4.147 | 2.07 | 85-115 |

AMN 10/17/2021

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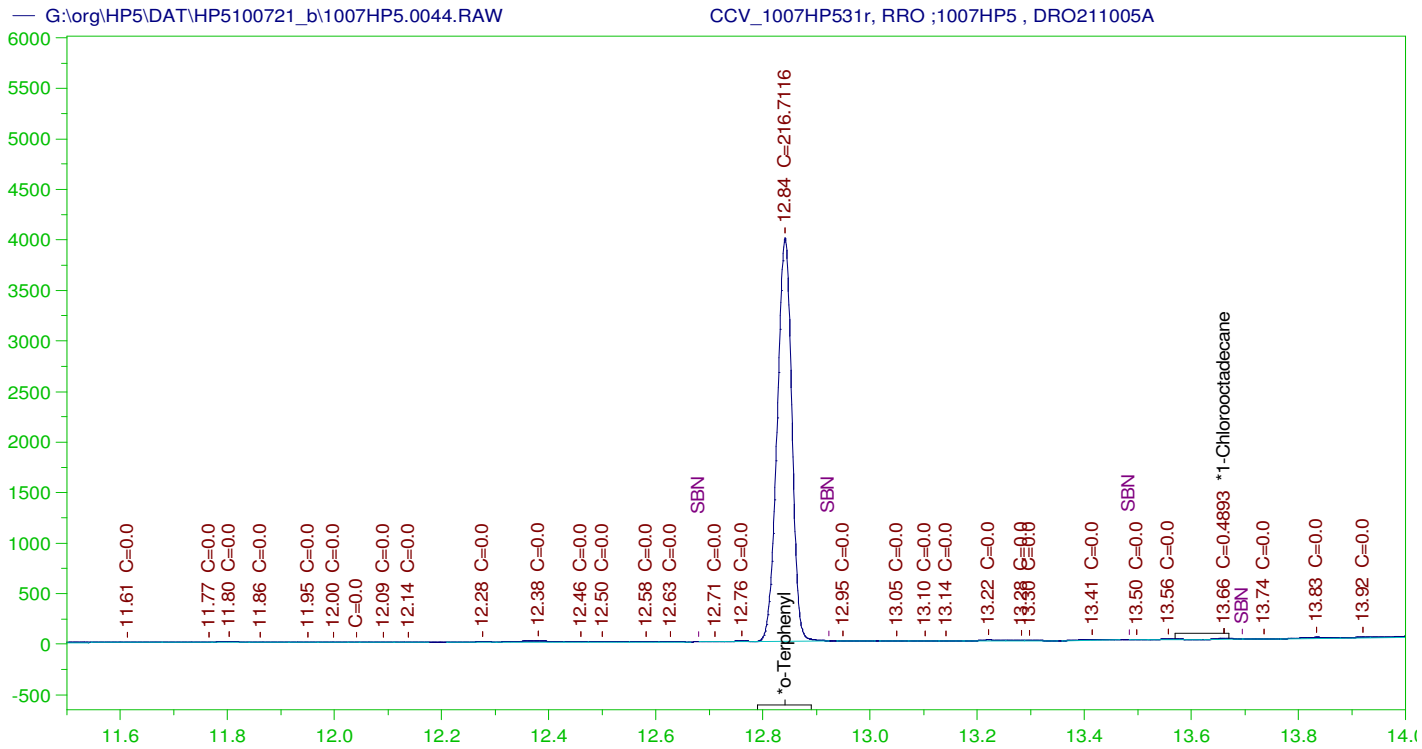



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP531r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0044.RAW
Date & Time Acquired: 10/8/2021 7:44:22 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | 200. | 216.712 | 108.36 | - |
| *1-Chlorooctadecane | 13.662 | 200. | .489 | .24 | - |

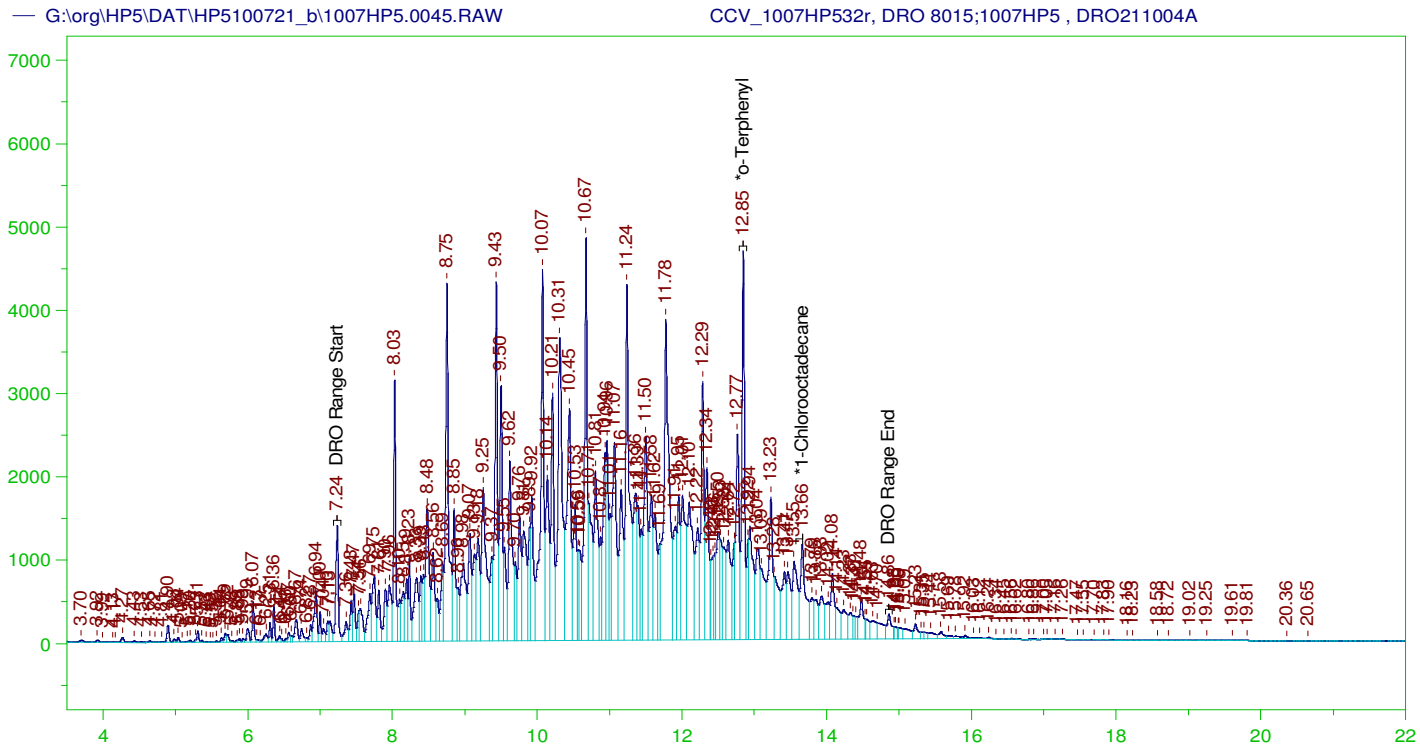
DRO Area:1522510 DRO Amount: 53.34203
TEH Area:3229791 TEH Amount: 113.1576

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0044.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 113.16 | 2.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | 200. | 216.712 | 108.36 | 85-115 |
| *1-Chlorooctadecane | 13.662 | 200. | .489 | .24 | 85-115 |

G:\org\HP5\dat\HP5100721_b\Review\044_CCV_1007HP531r_DS_OIL-AI-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0045.RAW
Date & Time Acquired: 10/8/2021 8:35:53 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.19 to 14.91

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.848 | 200. | 334.234 | 167.12 | - |
| *1-Chlorooctadecane | 13.663 | 200. | 162.79 | 81.4 | - |

DRO (C10-C24)Area:4.760232E+08 DRO (C10-C24)Amount: 16159.75
TEH Area:4.92418E+08 TEH Amount: 16716.31

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0045.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16716.31 | 111.44 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.848 | 200. | 334.234 | 167.12 | 85-115 |
| *1-Chlorooctadecane | 13.663 | 200. | 162.79 | 81.4 | 85-115 |

AMN 10/17/2021

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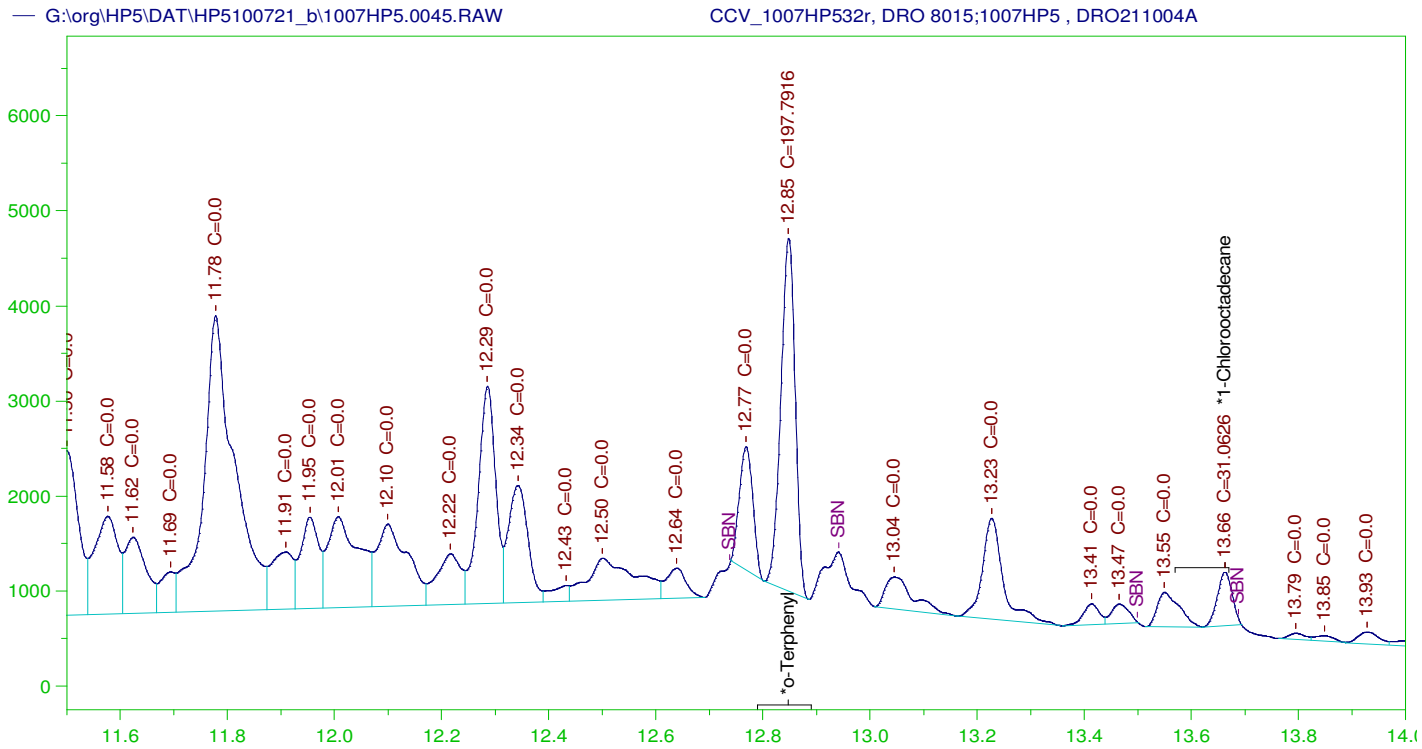



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0045.RAW
Date & Time Acquired: 10/8/2021 8:35:53 PM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.848 | 200. | 197.792 | 98.9 | - |
| *1-Chlorooctadecane | 13.663 | 200. | 31.063 | 15.53 | - |

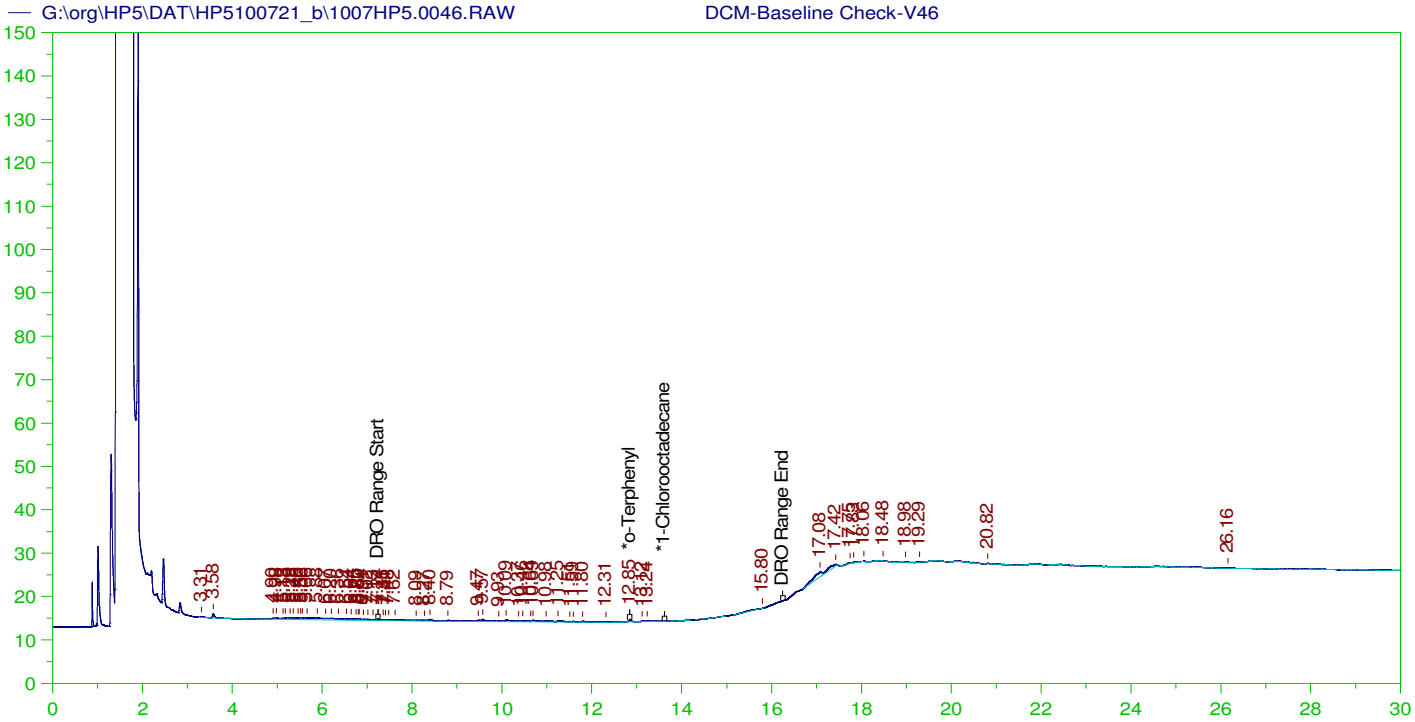
DRO Area:2.652837E+08 DRO Amount: 9005.694
TEH Area:2.756158E+08 TEH Amount: 9356.442

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0045.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9356.44 | 62.38 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.848 | 200. | 197.792 | 98.9 | 85-115 |
| *1-Chlorooctadecane | 13.663 | 200. | 31.063 | 15.53 | 85-115 |

G:\org\HP5\dat\HP5100721_b\Review\045_CCV_1007HP532r_DS_8015-HR-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V46
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0046.RAW
Date & Time Acquired: 10/8/2021 9:28:18 PM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

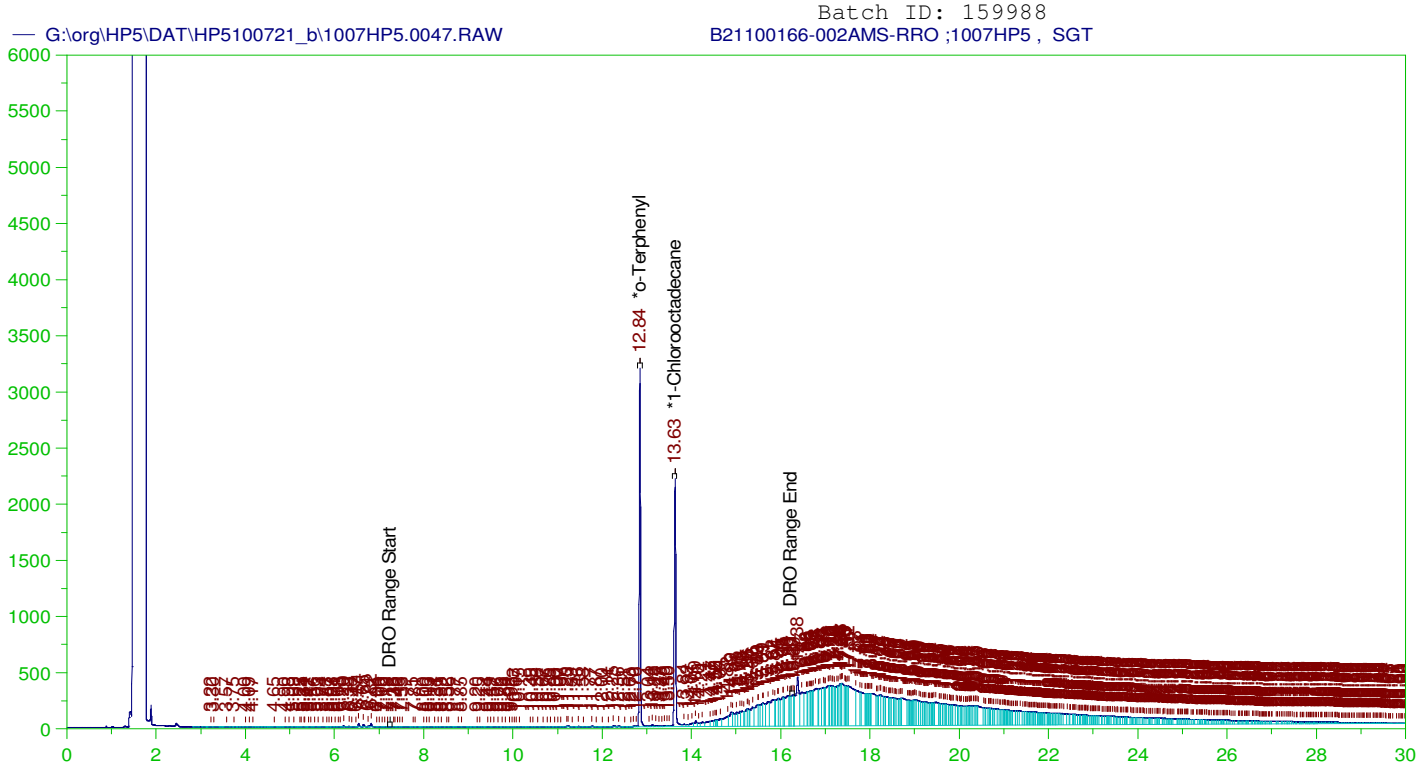
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.846 | 200. | .061 | .03 | - |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | - |

DRO Area:44316.23 DRO Amount: 1.504421
TEH Area:141883.9 TEH Amount: 4.816589

G:\org\HP5\dat\HP5100721_b\Review\046_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMS-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0047.RAW
Date & Time Acquired: 10/8/2021 10:22:18 PM
Method File: G:\Org\HP5\Methods\D3_OIL-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

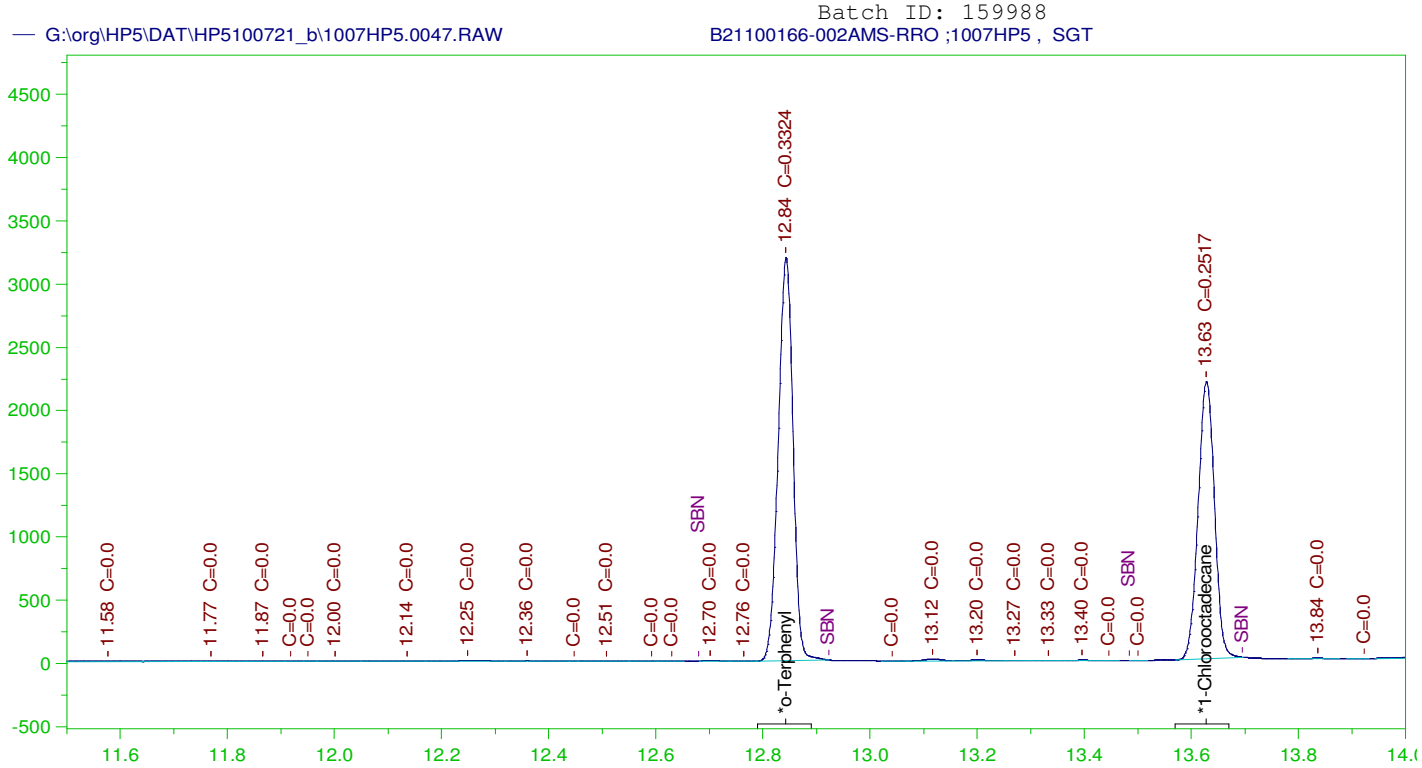
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.843 | .381 | .337 | 88.34 | - |
| *1-Chlorooctadecane | 13.628 | .381 | .267 | 70.13 | - |

DRO Area:1.994599E+07 DRO Amount: 1.331084
TEH (SGT-Oil Range)Area:1.154696E+08 TEH (SGT-Oil Range)Amount: 7.705797

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\047_B21100166-002AMS-RRO_D3_OIL-AI-L%.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMS-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0047.RAW
Date & Time Acquired: 10/8/2021 10:22:18 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.843 | .381 | .332 | 87.26 | - |
| *1-Chlorooctadecane | 13.628 | .381 | .252 | 66.08 | - |

DRO Area:1213865 DRO Amount: 8.100661E-02
TEH Area:1654407 TEH Amount: 0.1104059

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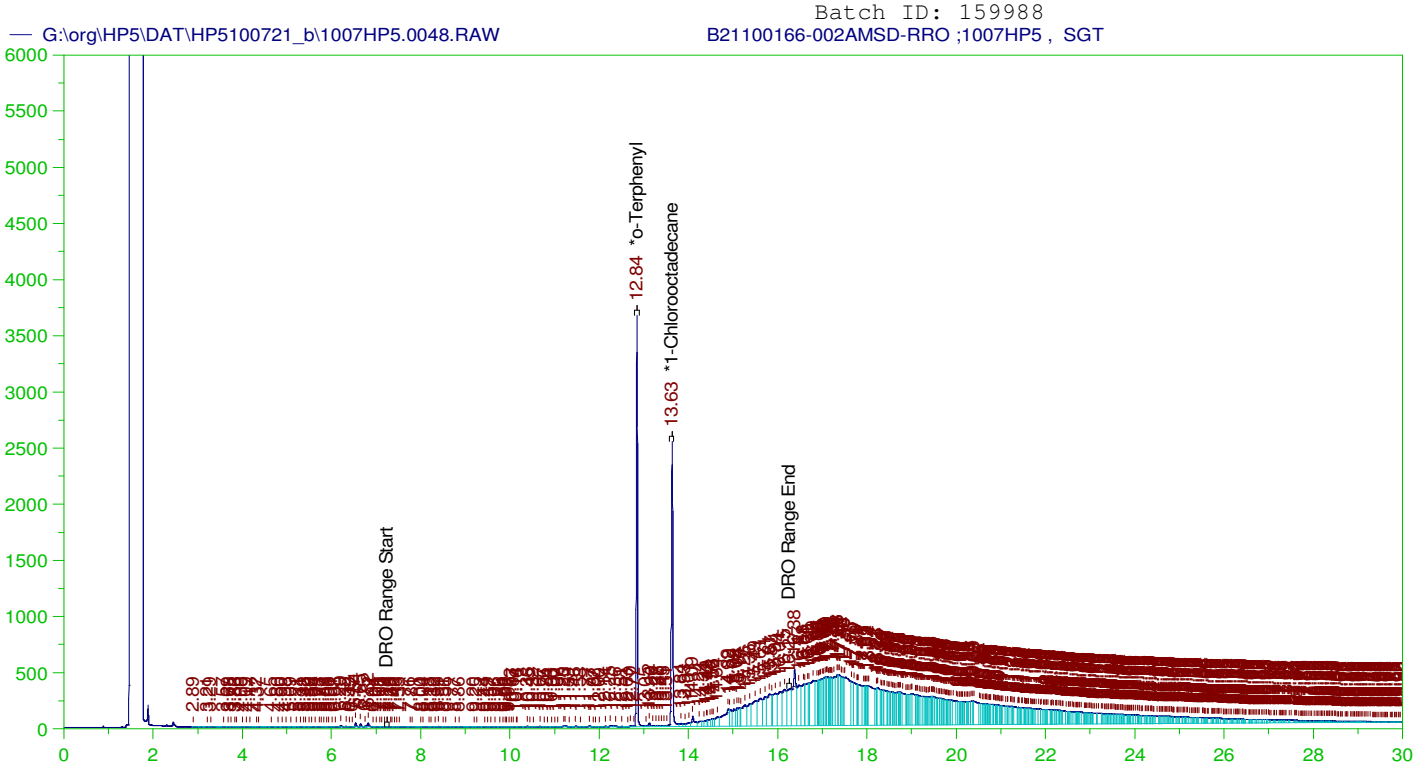
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMSD-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0048.RAW
Date & Time Acquired: 10/8/2021 11:15:48 PM
Method File: G:\Org\HP5\Methods\D3_OIL-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.845 | .381 | .383 | 100.47 | - |
| *1-Chlorooctadecane | 13.63 | .381 | .305 | 80.02 | - |

DRO Area:2.40054E+07 DRO Amount: 1.601987
TEH (SGT-Oil Range)Area:1.407567E+08 TEH (SGT-Oil Range)Amount: 9.393323

AMN 10/17/2021

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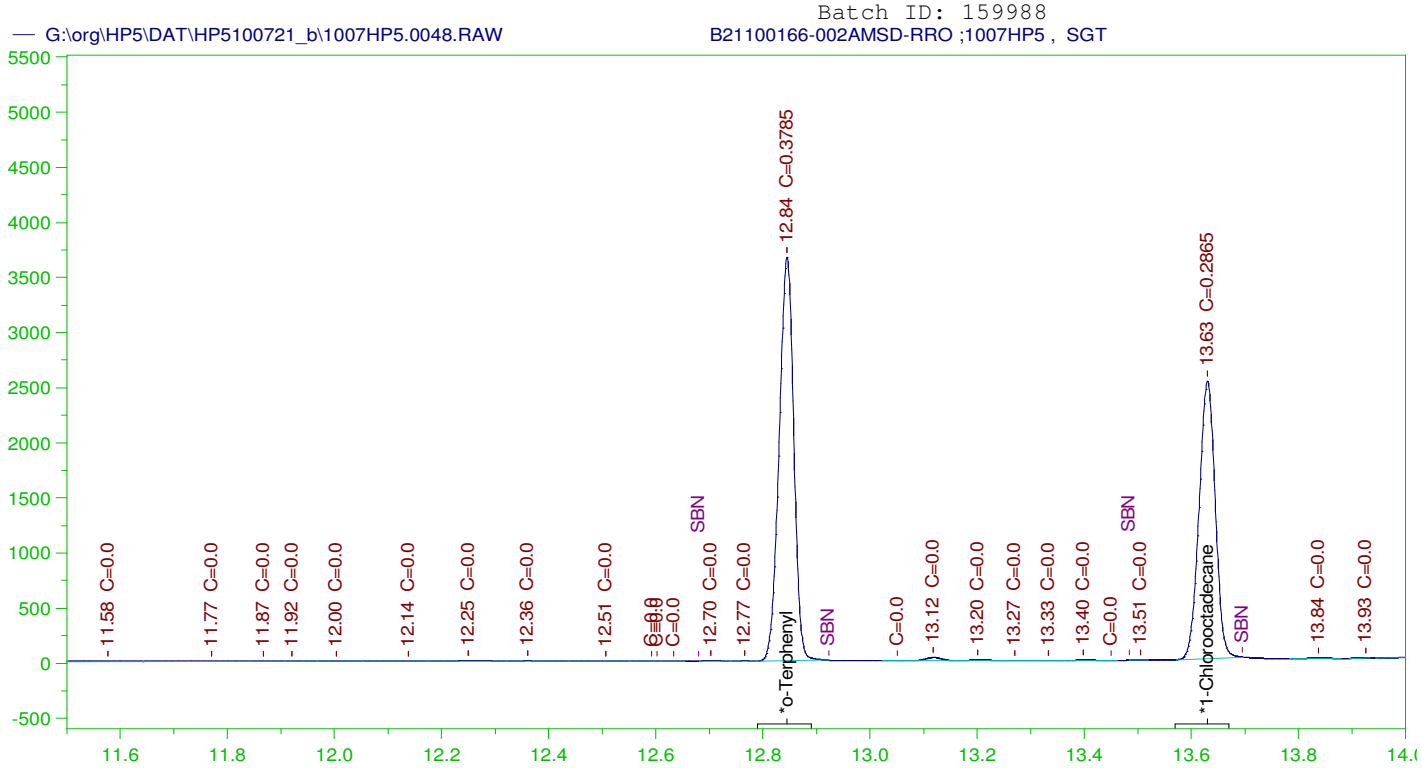
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMSD-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0048.RAW
Date & Time Acquired: 10/8/2021 11:15:48 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.845 | .381 | .379 | 99.36 | - |
| *1-Chlorooctadecane | 13.63 | .381 | .287 | 75.21 | - |

DRO Area:1509673 DRO Amount: 0.1007472
TEH Area:2020149 TEH Amount: 0.1348135

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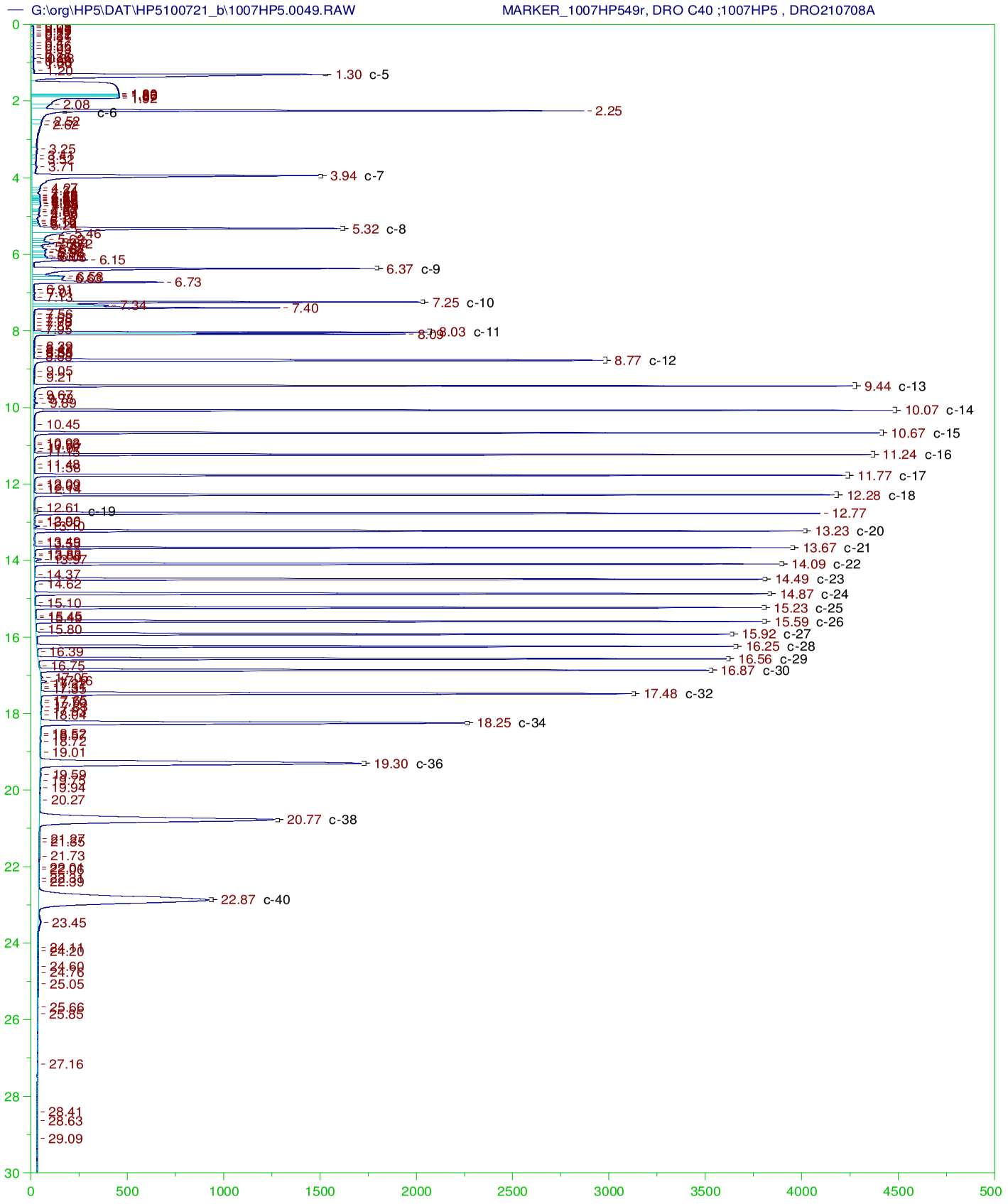
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MARKER_1007HP549r, DRO C40 ;1007HP5 , DRO210708A
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2.08 c-6
2.25
3.94 c-7
5.32 c-8
6.15
6.37 c-9
6.73
7.25 c-10
7.34
7.40
8.03 c-11
8.77 c-12
9.44 c-13
10.07 c-14
10.45
10.67 c-15
11.24 c-16
11.77 c-17
12.28 c-18
12.61 c-19
12.77
13.23 c-20
13.67 c-21
14.09 c-22
14.37
14.49 c-23
14.62
14.87 c-24
15.10
15.23 c-25
15.59 c-26
15.80
15.92 c-27
16.25 c-28
16.39
16.56 c-29
16.75
16.87 c-30
17.48 c-32
18.25 c-34
19.01
19.30 c-36
20.27
20.77 c-38
21.73
22.87 c-40
23.45
25.05
27.16
28.41
28.63
29.09
0
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1000
1500
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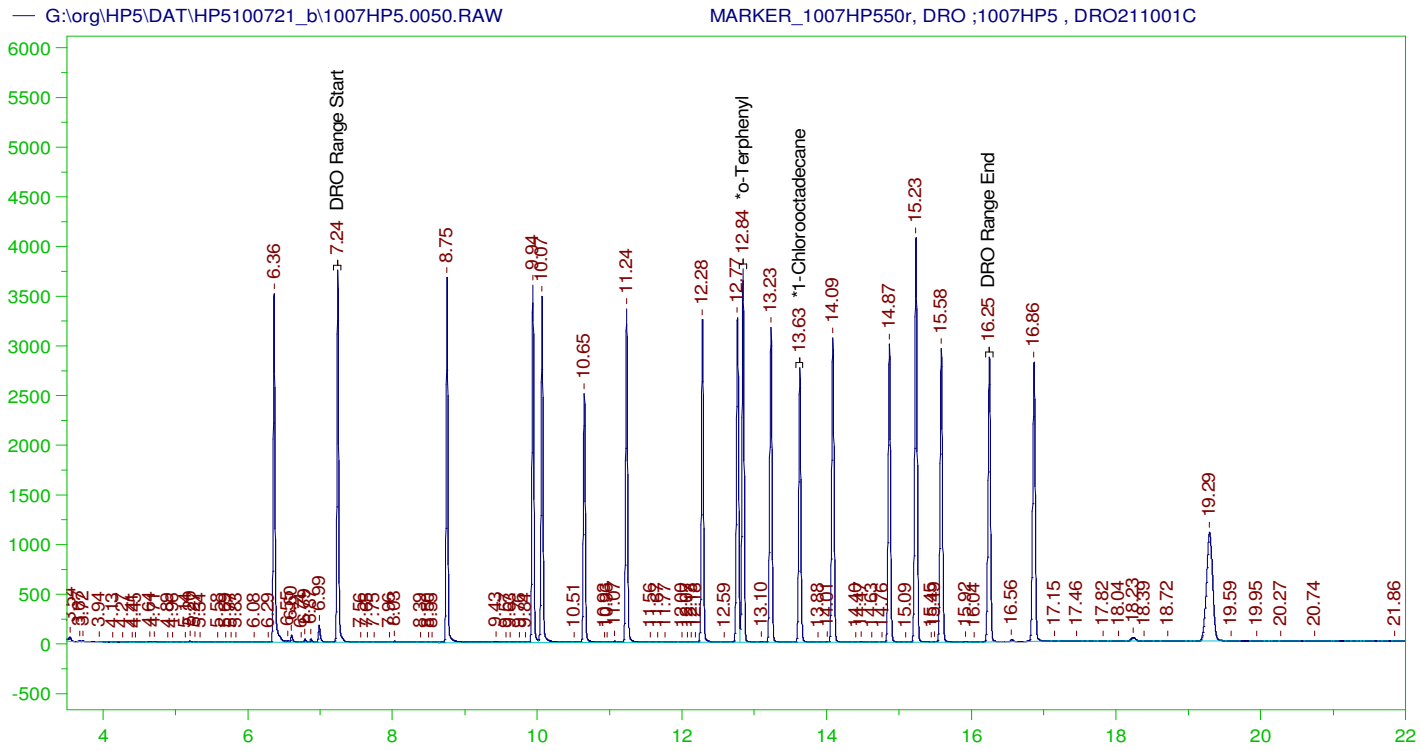



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

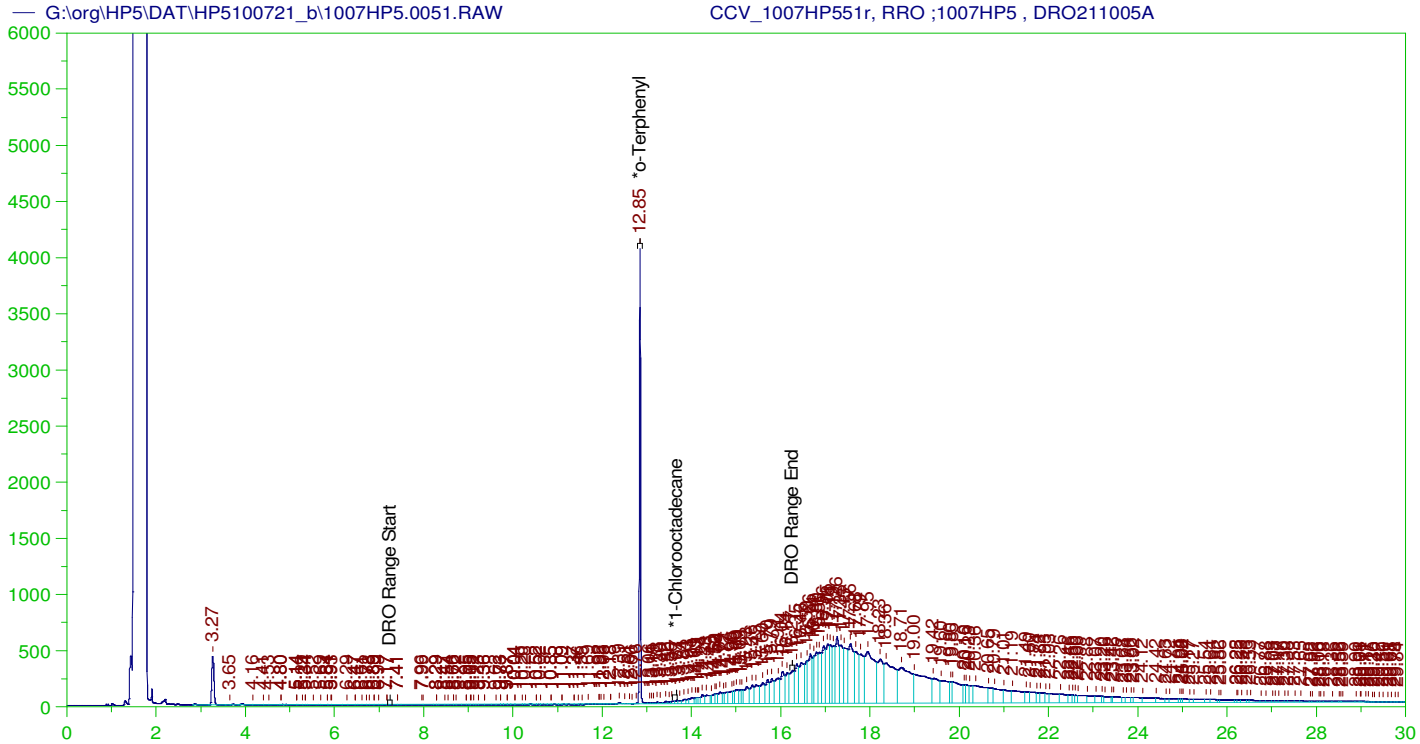
Sample Name: MARKER_1007HP550r, DRO ;1007HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0050.RAW
Date & Time Acquired: 10/9/2021 1:02:48 AM
Method File: G:\Org\HP5\Methods\DC_8015-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.845 | 200. | 205.944 | 102.97 | - |
| *1-Chlorooctadecane | 13.629 | 200. | 165.858 | 82.93 | - |

DRO Area:9.352969E+07 DRO Amount: 3175.09
TEH Area:1.158345E+08 TEH Amount: 3932.281

G:\org\HP5\dat\HP5100721_b\Review\050_MARKER_1007HP550r_DC_8015-HR-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP551r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0051.RAW
Date & Time Acquired: 10/9/2021 1:57:03 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AI-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.846 | 200. | 222.099 | 111.05 | - |
| *1-Chlorooctadecane | 13.666 | 200. | 3.292 | 1.65 | - |

DRO Area:2.285799E+07 DRO Amount: 800.843
TEH (Oil Range)Area:1.296645E+08 TEH (Oil Range)Amount: 4542.87

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0051.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4542.87 | 90.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.846 | 200. | 222.099 | 111.05 | 85-115 |
| *1-Chlorooctadecane | 13.666 | 200. | 3.292 | 1.65 | 85-115 |

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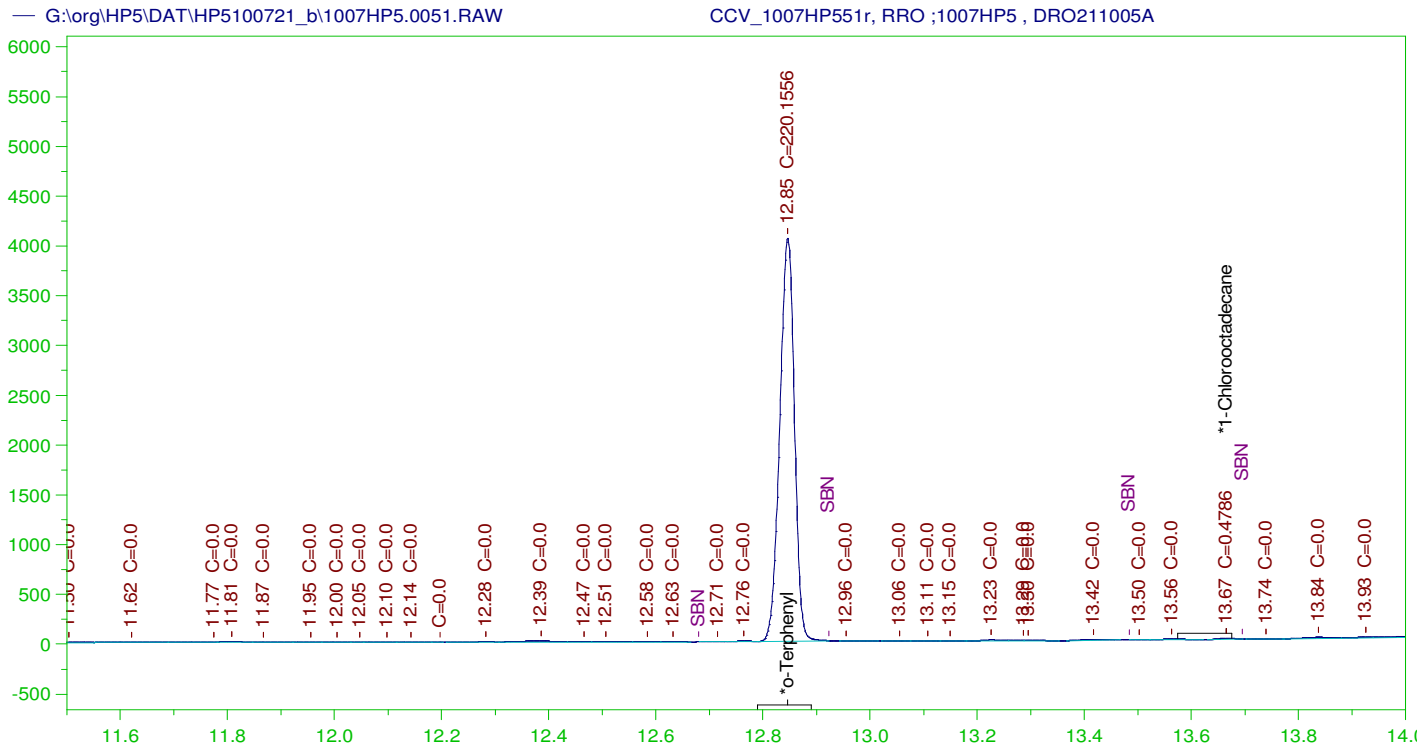



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP551r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0051.RAW
Date & Time Acquired: 10/9/2021 1:57:03 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.846 | 200. | 220.156 | 110.08 | - |
| *1-Chlorooctadecane | 13.666 | 200. | .479 | .24 | - |

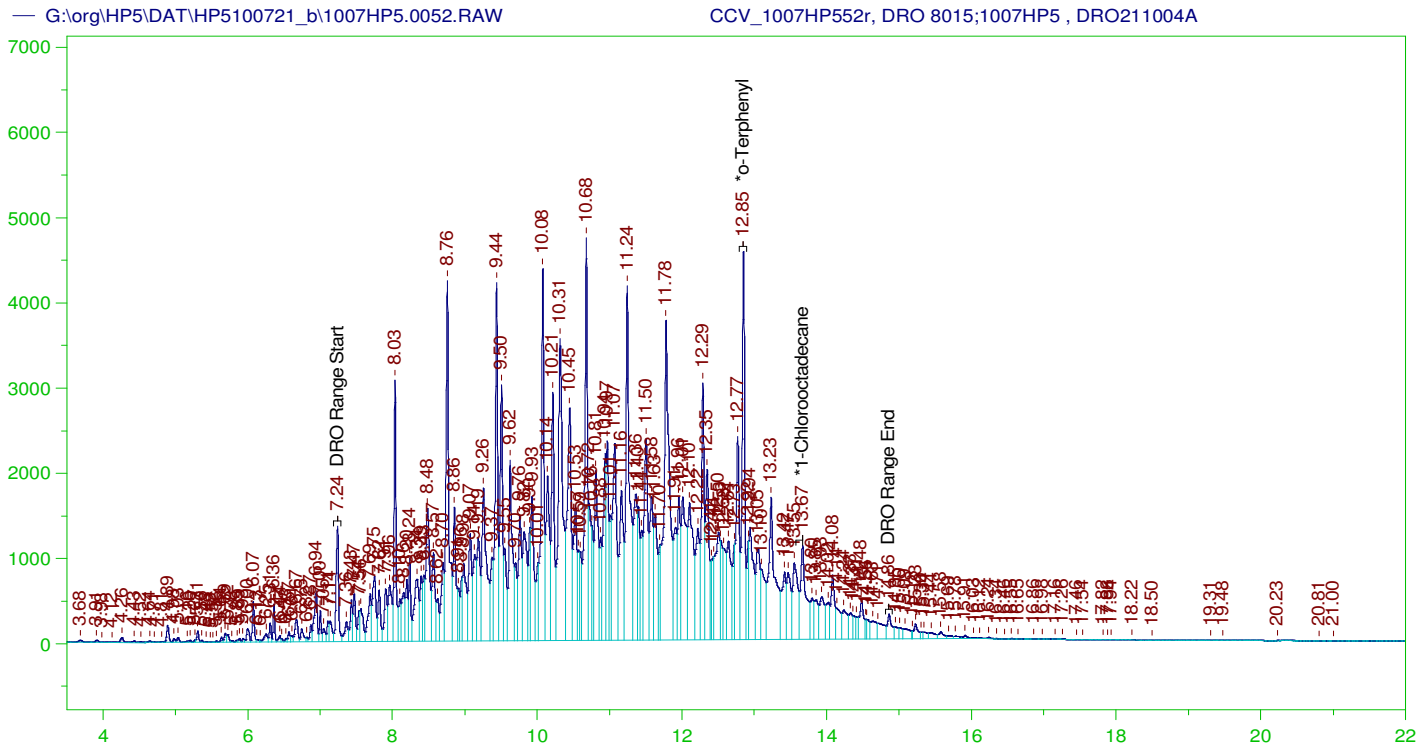
DRO Area:1531585 DRO Amount: 53.65996
TEH Area:3241651 TEH Amount: 113.5731

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0051.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 113.57 | 2.27 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.846 | 200. | 220.156 | 110.08 | 85-115 |
| *1-Chlorooctadecane | 13.666 | 200. | .479 | .24 | 85-115 |

G:\org\HP5\dat\HP5100721_b\Review\051_CCV_1007HP551r_DS_OIL-AI-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP552r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0052.RAW
Date & Time Acquired: 10/9/2021 2:50:39 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.19 to 14.91

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.851 | 200. | 323.839 | 161.92 | - |
| *1-Chlorooctadecane | 13.666 | 200. | 156.949 | 78.47 | - |

DRO (C10-C24)Area:4.614134E+08 DRO (C10-C24)Amount: 15663.79
TEH Area:4.773375E+08 TEH Amount: 16204.37

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0052.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16204.37 | 108.03 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.851 | 200. | 323.839 | 161.92 | 85-115 |
| *1-Chlorooctadecane | 13.666 | 200. | 156.949 | 78.47 | 85-115 |

AMN 10/17/2021

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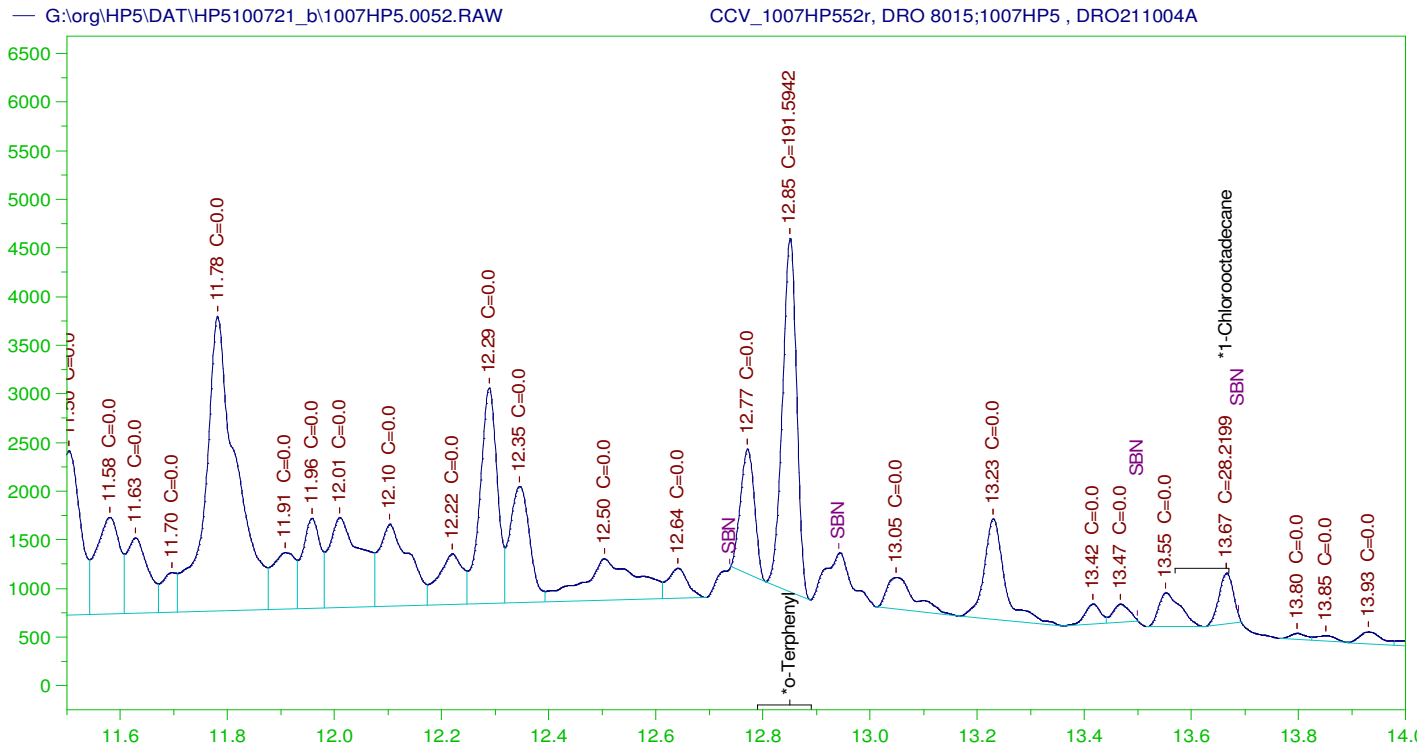



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP552r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0052.RAW
Date & Time Acquired: 10/9/2021 2:50:39 AM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.851 | 200. | 191.594 | 95.8 | - |
| *1-Chlorooctadecane | 13.666 | 200. | 28.22 | 14.11 | - |

DRO Area:2.566481E+08 DRO Amount: 8712.538
TEH Area:2.668088E+08 TEH Amount: 9057.467

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0052.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9057.47 | 60.38 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.851 | 200. | 191.594 | 95.8 | 85-115 |
| *1-Chlorooctadecane | 13.666 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5100721_b\Review\052_CCV_1007HP552r_DS_8015-HR-L#.xls

Write Sequence | Insert Entries(Have the first cell for entries selected)

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5100721_b\1007HP5.16r | MARKER_1007HP516r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.17r | MARKER_1007HP517r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.18r | CCV_1007HP518r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.19r | CCV_1007HP519r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.24r | LCS-159988 ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100724-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Set Baseline at 28.47, peak width adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.25r | MB-159988 ;1007HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.26r | B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1010 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.27r | B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.28r | B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.29r | MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.30r | MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.31r | CCV_1007HP531r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.32r | CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.33r | DCM-Baseline Check-V33 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.34r | B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.35r | B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.36r | B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.37r | B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.38r | B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.39r | B21100166-001AMS ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 510 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.40r | B21100166-001AMSD ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 510 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.41r | LCS-159988-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.42r | MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.43r | MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.44r | CCV_1007HP531r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.45r | CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.46r | DCM-Baseline Check-V46 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.47r | B21100166-002AMS-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.48r | B21100166-002AMSD-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.49r | MARKER_1007HP549r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.50r | MARKER_1007HP550r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.51r | CCV_1007HP551r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.52r | CCV_1007HP552r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |

Ann Nebel



Digitally signed by
Ann Nebel
Date: 2021.10.20 15:35:14 -06:00

# ANALYTICAL SUMMARY REPORT

October 27, 2021

AECOM - Honolulu
1001 Bishop Street, Suite 1600
Honolulu HI, 96813-3698

Work Order: B21100171 Quote ID: 5912

Project Name: CV18F0126/60571032.02.20.01

Energy Laboratories Inc Billings MT received the following 1 samples from AECOM - Honolulu on 10/4/2021 for analysis.

| Lab ID | Client Sample ID | Collect Date | Received Date | Matrix | Test |
|---|---|---|---|---|---|
| B21100171-001 | ERH1776 (RHSF, Pre-chlorination) | 10/01/21 12:32 | 10/04/2021 | Drinking Water | DRO-Liquid-Liquid Extraction SW3520C<br>Diesel Range Organics SW8015C |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

**CLIENT:** AECOM - Honolulu
**Project:** CV18F0126/60571032.02.20.01
**Work Order:** B21100171

**Report Date:** 10/27/2021

# CASE NARRATIVE

General Comments:

For any question please contact your Project Manager at (406) 252-6325 or billingspm@energylab.com..

All analyses have been performed in accordance with DOD QSM Version 5.3 unless otherwise noted below. The specific methodologies used in obtaining the enclosed analytical results are indicated on the Analytical Summary Report and the Laboratory Analytical Report. The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted in the Work Order Receipt Checklist.

The tests listed below are accredited and meet the requirements of DoD QSM Version 5.3 as verified by ANSI-ASQ National Accreditation Board (ANAB) certificate number ADE-2588. Exceptions to this require client authorization and records documenting this approval are attached in the Sample Management Records. Accreditation may not be offered or required for all methods and analytes reported in this package. Refer to the certificate and scope of accreditation located at https://www.energylab.com/whyus/certifications-quality-control/ or contact your project manager.

Project specific matrix quality control samples may not be reported if site specific samples were not submitted. Matrix quality control samples were performed on project samples where adequate volume was available. All quality control measures met criteria unless otherwise noted in the Analytical QC Exceptions report and in the Analysis Specific Comments below.  Where available, sample management records are attached.

The Level IV Validation Package includes data reports for all analyses associated with the instrument calibration, quality control (QC) sample analysis, and sample analysis. All analytical data is within method specifications except as noted in the Analytical QC Exceptions report or the Analysis Specific Comments below. The analytical report identifies preparation batch and analytical run IDs associated with each result for a sample. Only the raw data associated with the parameters listed on this report should be validated.

Analysis Specific Comments:

An Analytical QC Exceptions Report has been attached, summarizing all qualified QC results.  All quality control measures met criteria; therefore there were no analytical QC exceptions on this report.

ENERGY LABORATORIES
Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record

DoD Samples

www.energylab.com

COC# 202110-03 NOI Page 1 of 1

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |
| Special Report/Formats: | ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____ |

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2 business days; Level IV report in 3 weeks.
4. Note "non-PO" on invoice.

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032 02.20 01 |
| Sampler Name | JK, CF |
| Sampler Phone | 808-927-3240 |
| Sample Origin State | Hawaii |
| EPA/State Compliance | ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**

| | |
|---|---|
| A | Air |
| W | Water |
| S | Soils/ Solids |
| V | Vegetation |
| B | Bioassay |
| O | Oil |
| DW | Drinking Water |

All turnaround times are standard unless marked as RUSH

Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO | EPA 8015 TPH-DRO/RRO w / SGC | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1776 (RHSF, Pre-chlorination) | 10/01/2021 | 8:32 am | 2 | W | ✔ | ✔ | | | | | | | | | X | B21100171 |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | MY | 10/1/21 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Matthew Yim | 10/1/21 1500 | Matthew Yim | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | Sara Pontolo | 10/4/21 8:50 | |

**LABORATORY USE ONLY**

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | On Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | 1.3 °C | Y N | Y N | CC Cash Check | $ | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

# Work Order Receipt Checklist

## AECOM - Honolulu

## B21100171

| | | | |
|---|---|---|---|
| Login completed by: | Tabitha Edwards | Date Received: | 10/4/2021 |
| Reviewed by: | BL2000\gmccartney | Received by: | srg |
| Reviewed Date: | 10/7/2021 | Carrier name: | FedEx |

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all sample bottles? | Yes ☑ | No ☐ | Not Present ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes ☑ | No ☐ | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Applicable ☐ |
| Container/Temp Blank temperature: | 1.3°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | Not Applicable ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | Not Applicable ☐ |

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### Contact and Corrective Action Comments:

The collection time indicated on the Chain of Custody for all samples is in Hawaii-Aleutian Standard Time. The collection time has been converted (+4 Hours) to Mountain Daylight Time.

All samples were received in client provided containers using client provided preservative. Energy Laboratories sample preservation traceability is not available.

The Chain of Custody indicates a 1-2 business day rush request for preliminary data. Proceeded with a 3 business day rush per Shari Endy, Energy Laboratories Project Manager on 09/30/2021.

# Qualifiers and Abbreviations

| Qualifier | Qualifier Description |
|---|---|
| ## | Limit of Quantitation (LOQ) for this analyte exceeds the Maximum Contaminant Level (MCL) |
| * | Result exceeds the Maximum Contaminant Level (MCL) |
| A | The analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated |
| B | Analyte detected in the method blank |
| C | Continuing calibration verification was outside of the quality control advisory limits |
| D | Limit of Quantitation (LOQ) increased due to sample matrix |
| E | Estimated value - result exceeds the instrument upper quantitation limit |
| H | Analysis performed past the method holding time |
| J | The reported result is an estimated value |
| L | Lowest Limit of Quantitation (LOQ) available for the analytical method used |
| N | Analyte concentration was not sufficiently high to calculate a Relative Percent Difference (RPD) for the serial dilution test |
| O | Diluted out |
| P | Poor method performance - method validations have shown no recoveries at low concentrations or method performance was erratic |
| Q | Values reported below the Limit of Quantitation (LOQ) are statistically invalid |
| R | Relative Percent Difference (RPD) exceeds advisory limit |
| S | Spike recovery outside of advisory limits |
| T | Analyte detected in the associated trip blank |
| U | Not detected at the Limit of Detection (LOD) |
| V | The RPD value for this duplicate represents the RER value and the RPDLimit of 2 is the RER upper limit. |

# Qualifiers and Abbreviations

## Abbreviation

| Reporting | Explanation of Abbreviation |
|---|---|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MCL | Maximum Contaminant Level |
| MDC | Minimum Detectable Concentration |
| ND | Not detected at the Limit of Quantitaton (LOQ) |
| RBSL | Risk-Based Screening Levels |
| REC | Recovery |
| RER | Relative Error Ratio |
| RPD | Relative Percent Difference |
| SPK | Spike |

| Sample Types | Explanation of Abbreviation |
|---|---|
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification Standard |
| DUP | Sample Duplicate |
| ICSA | Interference Check Sample A |
| ICSAB | Interference Check Sample AB |
| ICV | Initial Calibration Verification Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LFB | Laboratory Fortified Blank |
| LRB | Laboratory Reagent Blank |
| MBLK | Method Blank |
| MS | Sample Matrix Spike |
| MSD | Sample Matrix Spike Duplicate |
| PDS | Post Digestion/Distillation Spike |
| QCS | Quality Control Sample |
| SD | Serial Dilution |
| SRM | Standard Reference Material |

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1776 (RHSF, Pre-chlorination)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21100171-001
**Collection Date:** 10/01/2021 12:32
**Date Received:** 10/04/2021
**Report Date:** 10/27/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/6/2021 05:44/amn | GCFID-HP5-B_211004B : 28 | 159988 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.083 | | SW8015C | 10/6/2021 05:44/amn | GCFID-HP5-B_211004B : 28 | 159988 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.071 | | SW8015C | 10/6/2021 05:44/amn | GCFID-HP5-B_211004B : 28 | 159988 |
| Surr: o-Terphenyl | 99.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/6/2021 05:44/amn | GCFID-HP5-B_211004B : 28 | 159988 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100171
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 10/27/2021

**Run ID: Run Order:** GCFID-HP5-B_211004B: 5 **SampType:** Method Blank **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/06/2021 04:52 **Prep Date:** 10/04/2021 14:22
**Lab ID:** MB-159988 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 106.0 | 56 | 125 | | | | |

Associated Samples: **B21100171-001A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 4 **SampType:** Laboratory Control Sample **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/06/2021 04:00 **Prep Date:** 10/04/2021 14:22
**Lab ID:** LCS-159988 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 103.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 17 | 0.30 | 15 | | 111.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 109.0 | 56 | 125 | | | | |

Associated Samples: **B21100171-001A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 25 **SampType:** Laboratory Control Sample **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/07/2021 03:38 **Prep Date:** 10/04/2021 14:24
**Lab ID:** LCS-159988-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 94.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 98.0 | 56 | 125 | | | | |

Associated Samples: **B21100171-001A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100171
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 10/27/2021

**Run ID: Run Order:** GCFID-HP5-B_211004B: 21 **SampType:** Sample Matrix Spike **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/06/2021 23:22 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 27 | 0.59 | 29 | 0.00 | 90.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 28 | 0.59 | 29 | 0.00 | 96.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.38 | 0.0039 | 0.39 | 0.00 | 98.0 | 56 | 125 | | | | |

Associated Samples: **B21100171-001A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 22 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/07/2021 00:12 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 26 | 0.59 | 29 | 0.00 | 89.0 | 36 | 132 | 27 | 1.4 | 20.0 | |
| Total Extractable Hydrocarbons | 28 | 0.59 | 29 | 0.00 | 97.0 | 60 | 132 | 28 | 0.6 | 20.0 | |
| Surr: o-Terphenyl | 0.38 | 0.0039 | 0.39 | 0.00 | 96.0 | 56 | 125 | 0.00 | | | |

Associated Samples: **B21100171-001A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 23 **SampType:** Sample Matrix Spike **Batch ID:** 159988
**Method:** SW8015C **Analysis Date:** 10/07/2021 01:04 **Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.4 | 0.57 | 9.5 | 0.00 | 99.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.40 | 0.0038 | 0.38 | 0.00 | 106.0 | 56 | 125 | | | | |

Associated Samples: **B21100171-001A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100171
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 10/27/2021

**Run ID: Run Order:** GCFID-HP5-B_211004B: 24
**SampType:** Sample Matrix Spike Duplicate
**Batch ID:** 159988
**Method:** SW8015C
**Analysis Date:** 10/07/2021 01:56
**Prep Date:** 10/04/2021 14:24
**Lab ID:** B21100166-002AMSD-RRO
**Units:** mg/L
**Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.2 | 0.57 | 9.5 | 0.00 | 97.0 | 41 | 113 | 9.4 | 2.4 | 20.0 | |
| Surr: o-Terphenyl | 0.36 | 0.0038 | 0.38 | 0.00 | 95.0 | 56 | 125 | 0.00 | | | |

Associated Samples: **B21100171-001A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 2
**SampType:** Continuing Calibration Verification Standard
**Batch ID:** R368259
**Method:** SW8015C
**Analysis Date:** 10/05/2021 21:07
**Prep Date:**
**Lab ID:** CCV_1004HP547r
**Units:** mg/L
**Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.8 | 0.30 | 5.0 | | 96.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 115.0 | 80 | 120 | | | | |

Associated Samples: **B21100171-001A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 3
**SampType:** Continuing Calibration Verification Standard
**Batch ID:** R368259
**Method:** SW8015C
**Analysis Date:** 10/05/2021 21:58
**Prep Date:**
**Lab ID:** CCV_1004HP548r
**Units:** mg/L
**Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 106.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 110.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 98.0 | 80 | 120 | | | | |

Associated Samples: **B21100171-001A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100171
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 10/27/2021

**Run ID: Run Order:** GCFID-HP5-B_211004B: 9
**SampType:** Continuing Calibration Verification Standard
**Batch ID:** R368259
**Method:** SW8015C
**Analysis Date:** 10/06/2021 08:49
**Prep Date:**
**Lab ID:** CCV_1004HP561r
**Units:** mg/L
**Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.5 | 0.30 | 5.0 | | 91.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 109.0 | 80 | 120 | | | | |

Associated Samples: **B21100171-001A**

**Run ID: Run Order:** GCFID-HP5-B_211004B: 10
**SampType:** Continuing Calibration Verification Standard
**Batch ID:** R368259
**Method:** SW8015C
**Analysis Date:** 10/06/2021 09:34
**Prep Date:**
**Lab ID:** CCV_1004HP562r
**Units:** mg/L
**Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 17 | 0.30 | 15 | | 111.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 18 | 0.30 | 15 | | 117.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 105.0 | 80 | 120 | | | | |

Associated Samples: **B21100171-001A**

# Analytical QC Exceptions Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100171
**Project:** CV18F0126/60571032.02.20.01

**Report Date:** 10/27/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.

# Preparation and Analysis Dates Report

**Work Order:** B21100171
**Client:** AECOM - Honolulu
**Project Name:** CV18F0126/60571032.02.20.01
**Report Date:** 10/27/2021

| Lab ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Method | Prep Date | Prep Batch | Analysis Method | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | ERH1776 (RHSF, Pre-chlorination) | 10/01/2021 12:32 | Drinking Water | Diesel Range Organics | | SW3520C | 10/04/2021 14:25 | 159988 | SW8015C | 10/06/2021 05:44 |

# Chemical Abstracts Service (CAS) Registry Numbers

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu

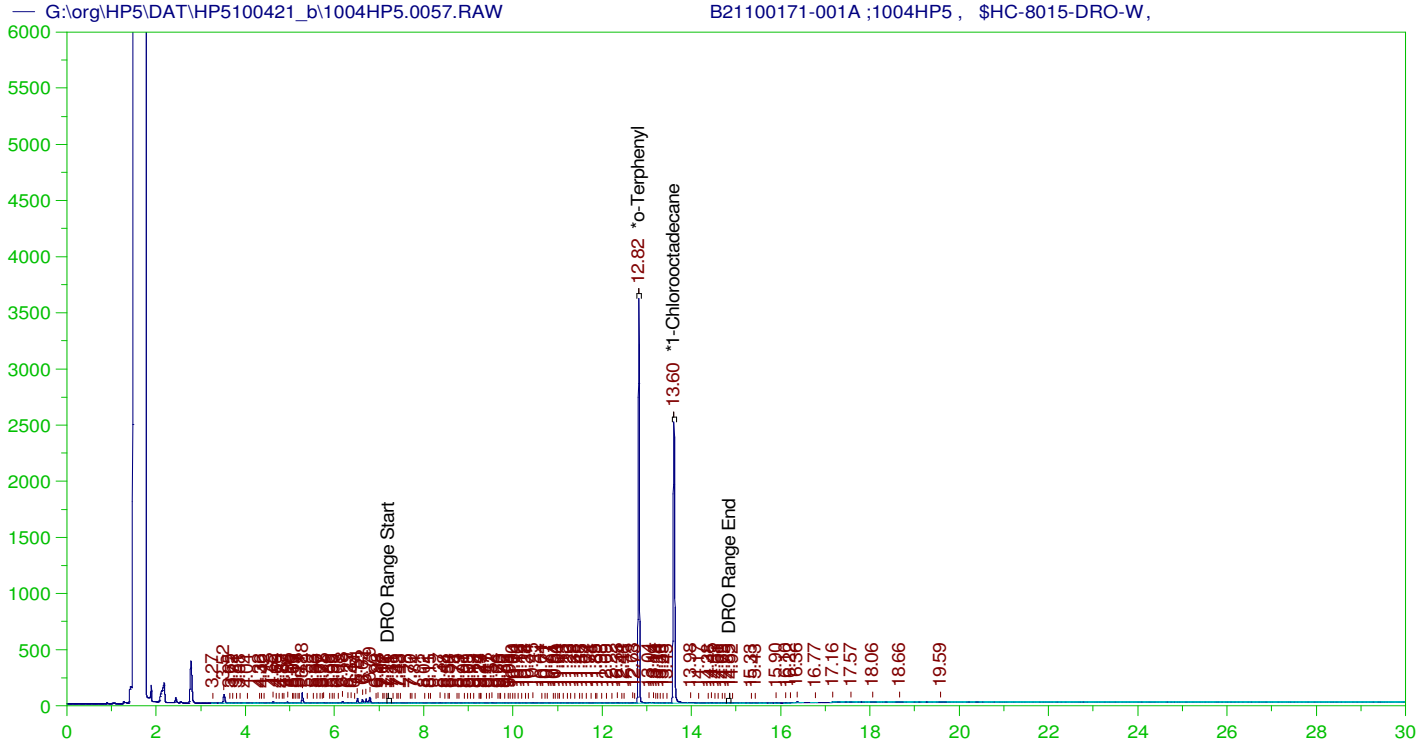
**Workorder:** B21100171

**Project:** CV18F0126/60571032.02.20.01 **Report Date:** 10/27/2021

| Analyses | CAS No |
|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | |
| Diesel Range Organics (C10 to C24) | |
| Oil Range Hydrocarbons (C24 to C40) | |
| Total Extractable Hydrocarbons | |

**ERH1776 (RHSF, Pre-chlorination)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0057.RAW B21100171-001A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100171-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0057.RAW
Date & Time Acquired: 10/6/2021 5:44:36 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

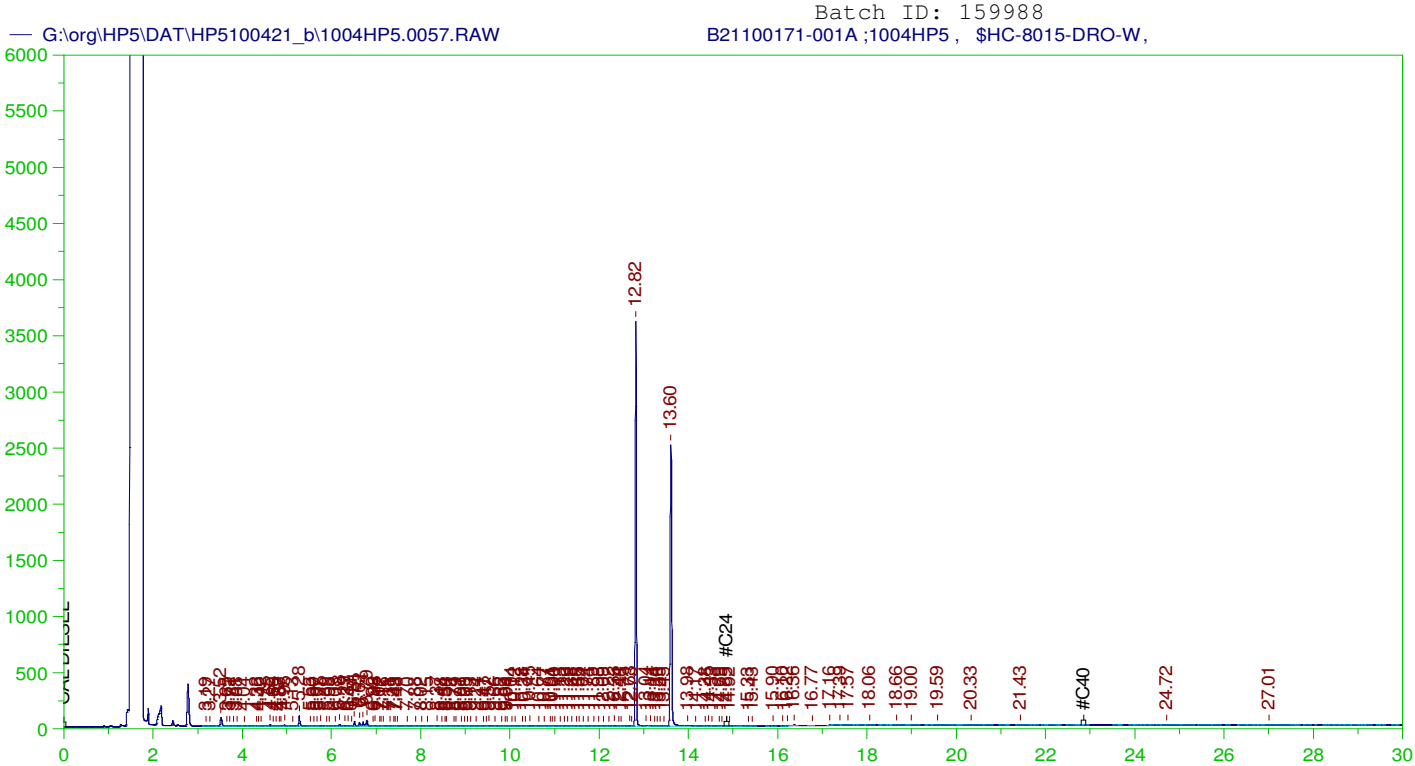
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.818 | .189 | .186 | 98.71 | - |
| *1-Chlorooctadecane | 13.605 | .189 | .148 | 78.66 | - |

DRO (C10-C24)Area:475269.2 DRO (C10-C24)Amount: 0.0152209
TEH Area:1594824 TEH Amount: 0.0510756

AMN 10/07/2021

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100171-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0057.RAW
Date & Time Acquired: 10/6/2021 5:44:36 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics (C24-C40)Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics (C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40)Area:58592.96 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 1.93664E-03

AMN 10/07/2021

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*07-May-21*

**Run ID** GCFID-HP5-B_210108B

| | |
|---|---|
| **Run Start Date:** | 1/8/2021 |
| **Analyst:** | Ann Nebel |
| **Ical:** | |
| **Column ID:** | |
| **Comments:** | NEW ICAL<br>SW8015C_DRO210108HA.CAL |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CALS | 12/31/2021 |
| DRO201210A | #2 Diesel in Acetone 150,000 ug/mL | | | | | SECOND S | 6/10/2021 |
| DRO210105B | EPH (4) SURR-1000 ug/mL ea. in Hexane | | | | | SURRS | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154799 | CCV_0108HP51 | HC-8015-DRO- | CAL1 | | 1/8/2021 2:21:25 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1350772 | | 0.15 | 0 | 0 | 0.0499 | 0.3 | 50 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154800 | CCV_0108HP51 | HC-8015-DRO- | CAL2 | | 1/8/2021 3:03:30 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.865478 | | 3.75 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154801 | CCV_0108HP51 | HC-8015-DRO- | CAL3 | | 1/8/2021 3:45:32 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.3786 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154802 | CCV_0108HP51 | HC-8015-DRO- | CAL4 | | 1/8/2021 4:27:38 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 39.10215 | | 37.5 | 0 | 0 | 0.0499 | 0.3 | 50 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154803 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 5:09:49 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 50.03634 | | 50 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154804 | CCV_0108HP50 | HC-8015-DRO- | CAL1 | | 1/8/2021 5:52:15 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00201784 | | 0.002 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154805 | CCV_0108HP50 | HC-8015-DRO- | CAL2 | | 1/8/2021 6:34:45 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04980491 | | 0.05 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154806 | CCV_0108HP50 | HC-8015-DRO- | CAL3 | | 1/8/2021 7:17:18 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2027571 | | 0.2 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154807 | CCV_0108HP50 | HC-8015-DRO- | CAL4 | | 1/8/2021 7:59:52 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.4989882 | | 0.5 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154808 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 8:42:33 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.9852039 | | 1 | 0 | 0 | 0.000327 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154809 | CCV_0108HP51 | HC-8015-DRO- | ICV | | 1/8/2021 9:25:08 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 14.94195 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |

| | |
|---|---|
| File Name: | G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL |
| Version: | 6 |

| | |
|---|---|
| Creator: | AMN 1/11/2021 |
| Description: | DRO-8015C. New ICal Per 0108HP5 (2021)-2 uL Inj.; COD added using OTP RFs |
| Reason for change: | |

External standard calibration

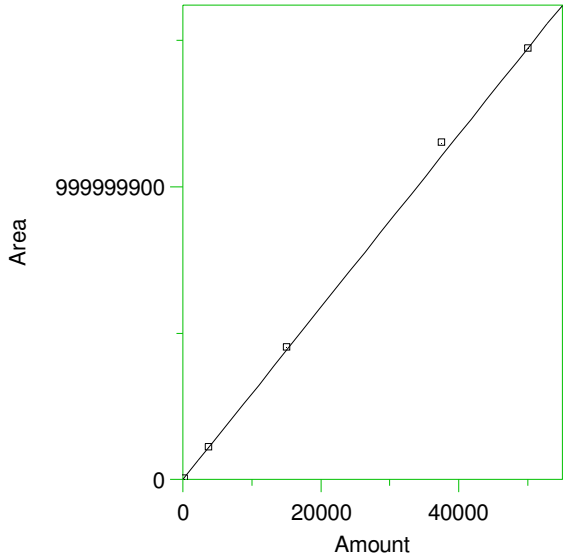
| | |
|---|---|
| Standard injection volume: | 1 |
| Standard sample weight: | 1 |
| Area reject threshold: | 500 |
| Reference peak area reject threshold: | 500 |
| Amount units: | nanograms |

No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.82 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

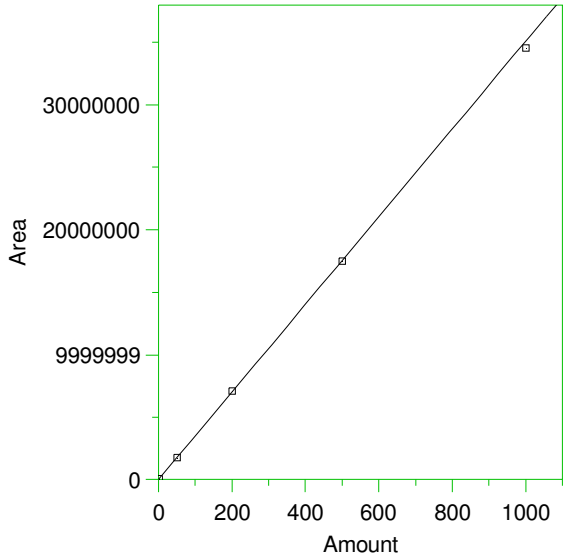
Y = 29457.33 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9985872 |
| Average error: | 3.979% |
| Average CF: | 29457.33 |
| RSD: | 5.768% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3979014 | 26526.76 | -9.949 | Manual | 1/11/2021 9:46:00 AM |
| 2 | 3750 | 1.138667E+08 | 30364.46 | 3.079 | Manual | 1/11/2021 9:46:09 AM |
| 3 | 15000 | 4.530125E+08 | 30200.83 | 2.524 | Manual | 1/11/2021 9:46:18 AM |
| 4 | 37500 | 1.151845E+09 | 30715.87 | 4.272 | Manual | 1/11/2021 9:46:27 AM |
| 5 | 50000 | 1.473937E+09 | 29478.74 | 0.073 | Manual | 1/11/2021 9:46:39 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.57 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

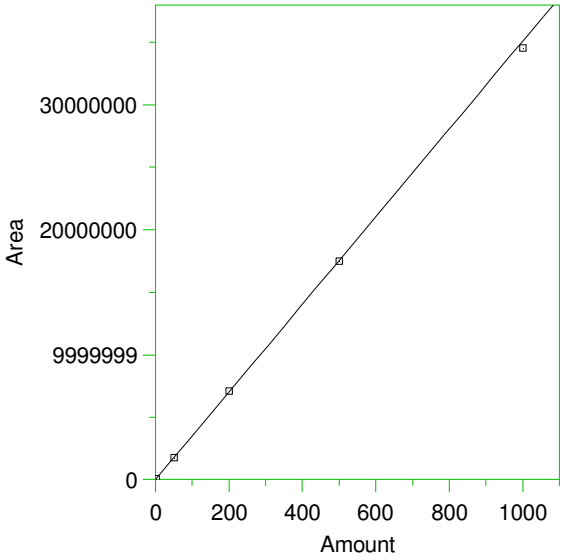
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.36 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

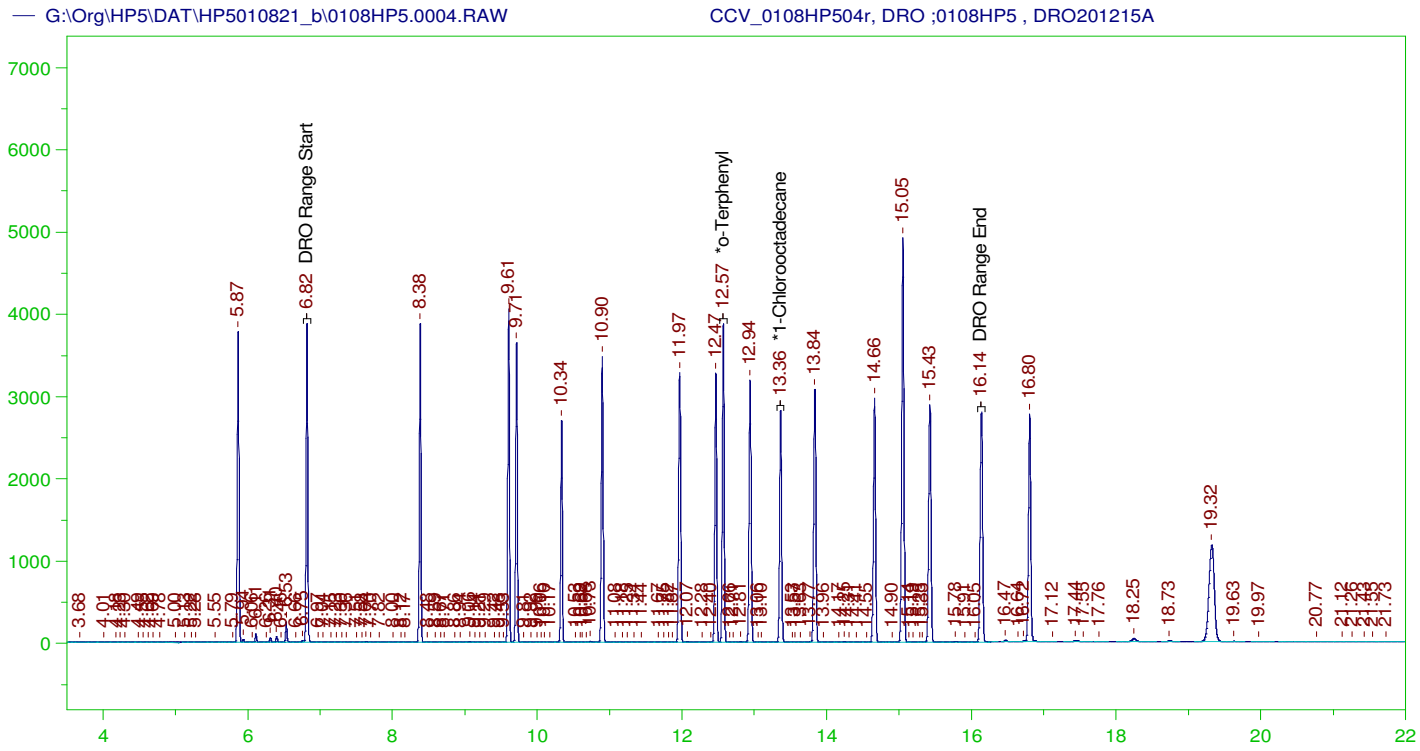
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP504r, DRO ;0108HP5 , DRO201215A
Raw File: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW
Date & Time Acquired: 1/8/2021 12:47:29 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | - |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | - |

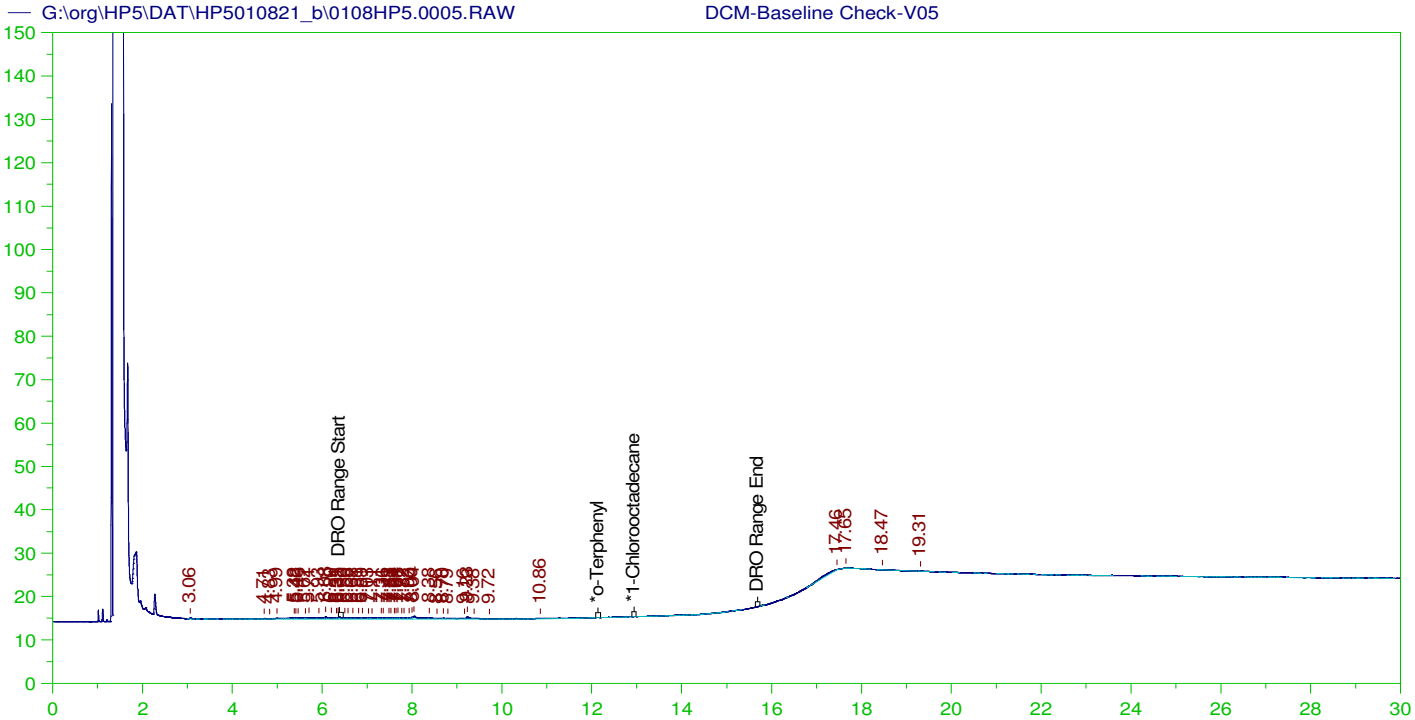
DRO Area:8.880706E+07 DRO Amount: 3014.77
TEH Area:1.082932E+08 TEH Amount: 3676.273

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3676.27 | 24.51 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | 85-115 |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\004_CCV_0108HP504r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

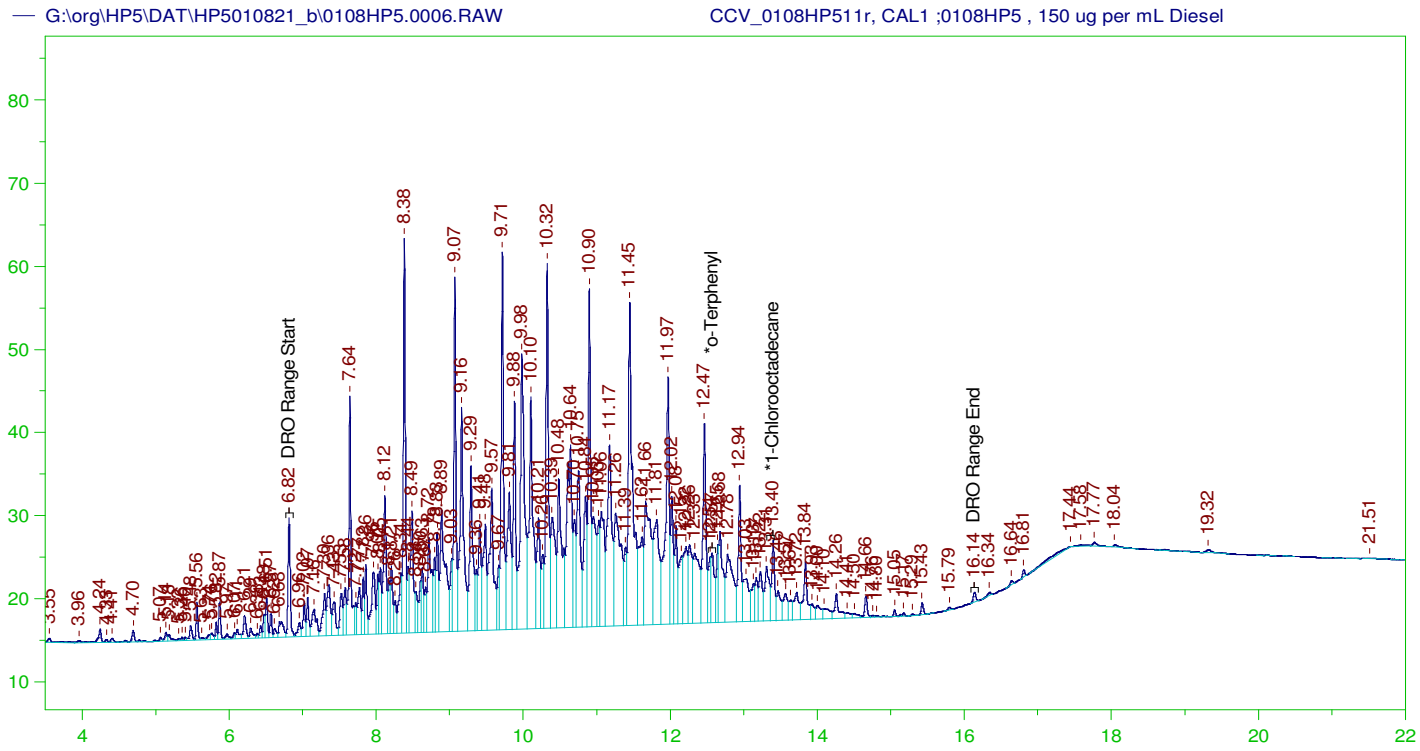
Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0005.RAW
Date & Time Acquired: 1/8/2021 1:29:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-GX-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO200123GX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28963.21
Rt range for Diesel Range Organics: 6.36 to 15.74

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.787 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.787 | 200. | . | . | - |

DRO Area:48911.73 DRO Amount: 1.688754
TEH Area:90991.55 TEH Amount: 3.141625

G:\org\HP5\dat\HP5010821_b\Review\005_DCM-Baseline Chec_DR_8015-GX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW
Date & Time Acquired: 1/8/2021 2:21:25 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | - |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | - |

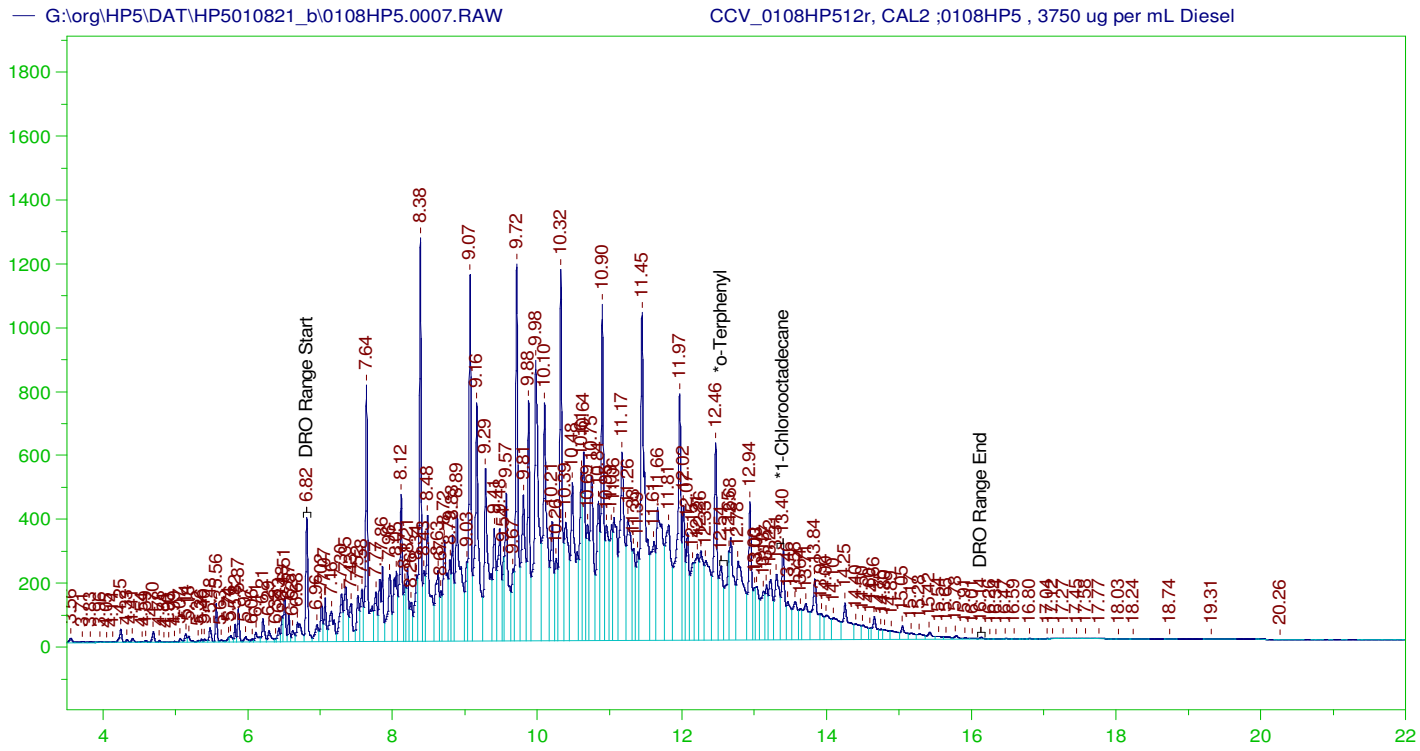
DRO Area:3854036 DRO Amount: 130.8345
TEH Area:3979014 TEH Amount: 135.0772

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 135.08 | .9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | 85-115 |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\006_CCV_0108HP511r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW
Date & Time Acquired: 1/8/2021 3:03:30 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | - |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | - |

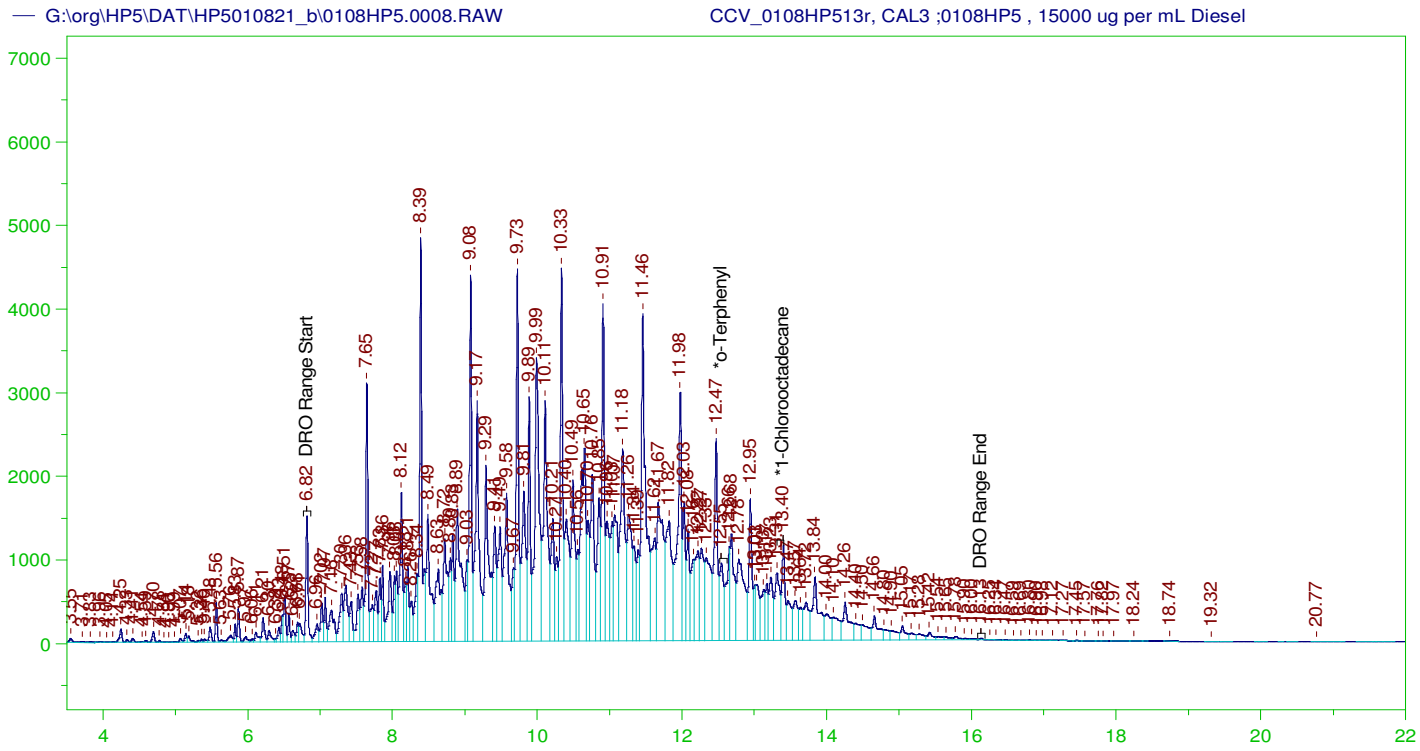
DRO Area:1.111179E+08 DRO Amount: 3772.164
TEH Area:1.138667E+08 TEH Amount: 3865.478

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3865.48 | 25.77 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | 85-115 |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\007_CCV_0108HP512r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW
Date & Time Acquired: 1/8/2021 3:45:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | - |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | - |

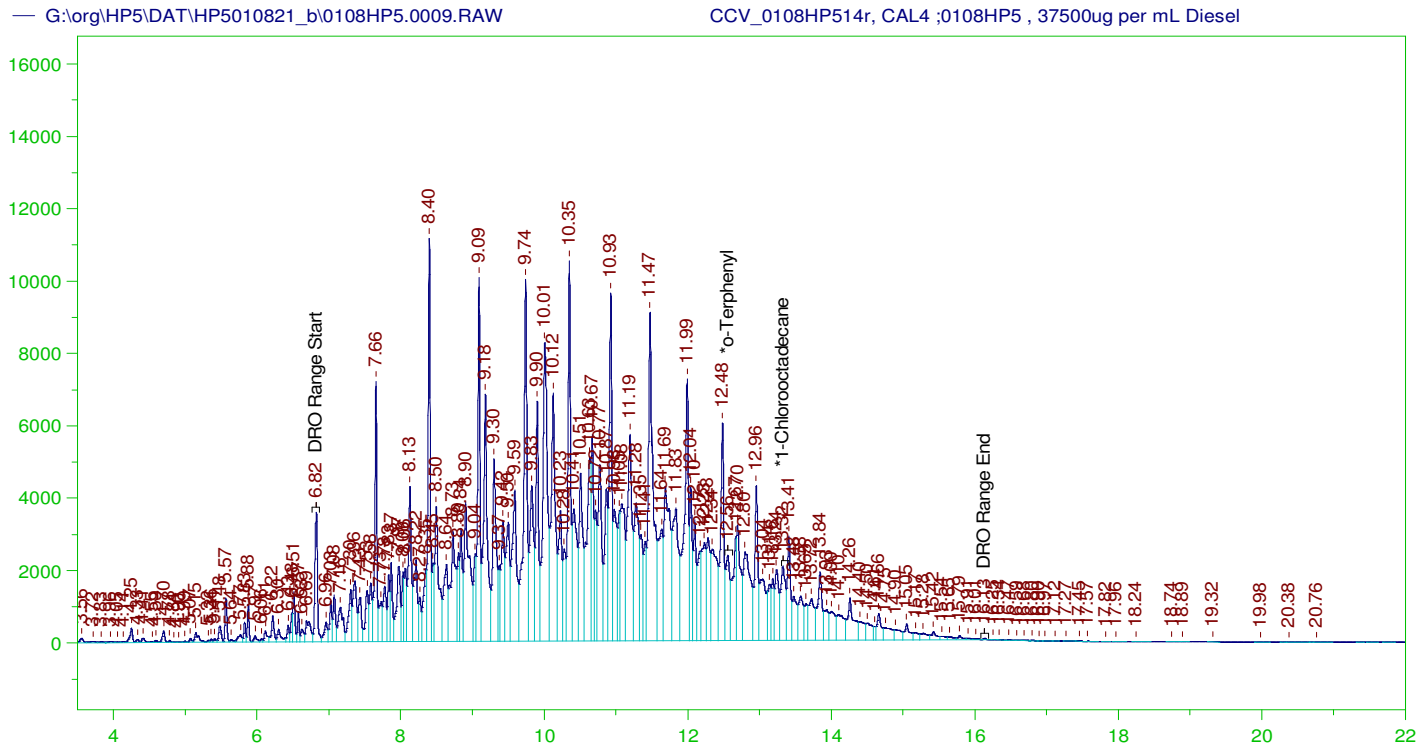
DRO Area:4.420163E+08 DRO Amount: 15005.31
TEH Area:4.530125E+08 TEH Amount: 15378.6

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15378.6 | 102.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | 85-115 |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\008_CCV_0108HP513r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW
Date & Time Acquired: 1/8/2021 4:27:38 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | - |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | - |

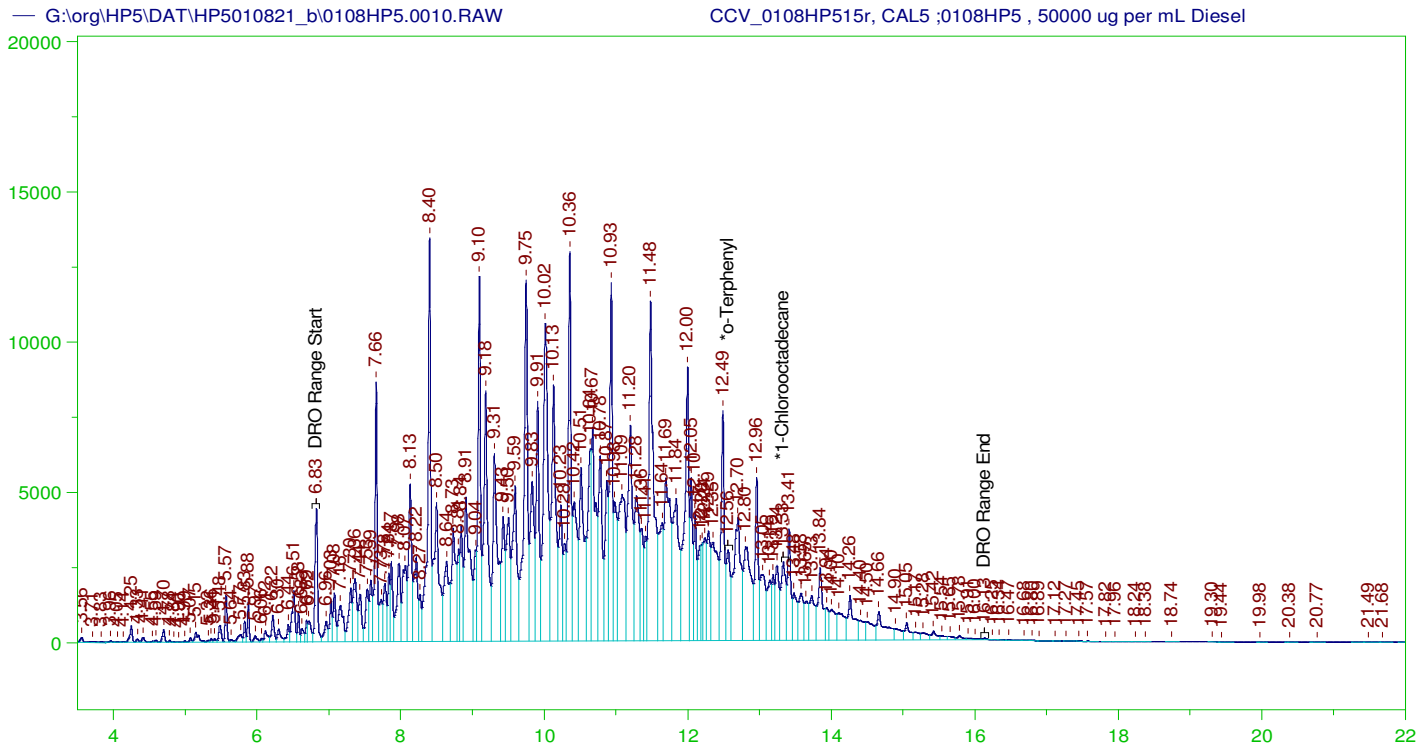
DRO Area:1.1239E+09 DRO Amount: 38153.5
TEH Area:1.151845E+09 TEH Amount: 39102.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39102.15 | 260.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | 85-115 |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\009_CCV_0108HP514r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW
Date & Time Acquired: 1/8/2021 5:09:49 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | - |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | - |

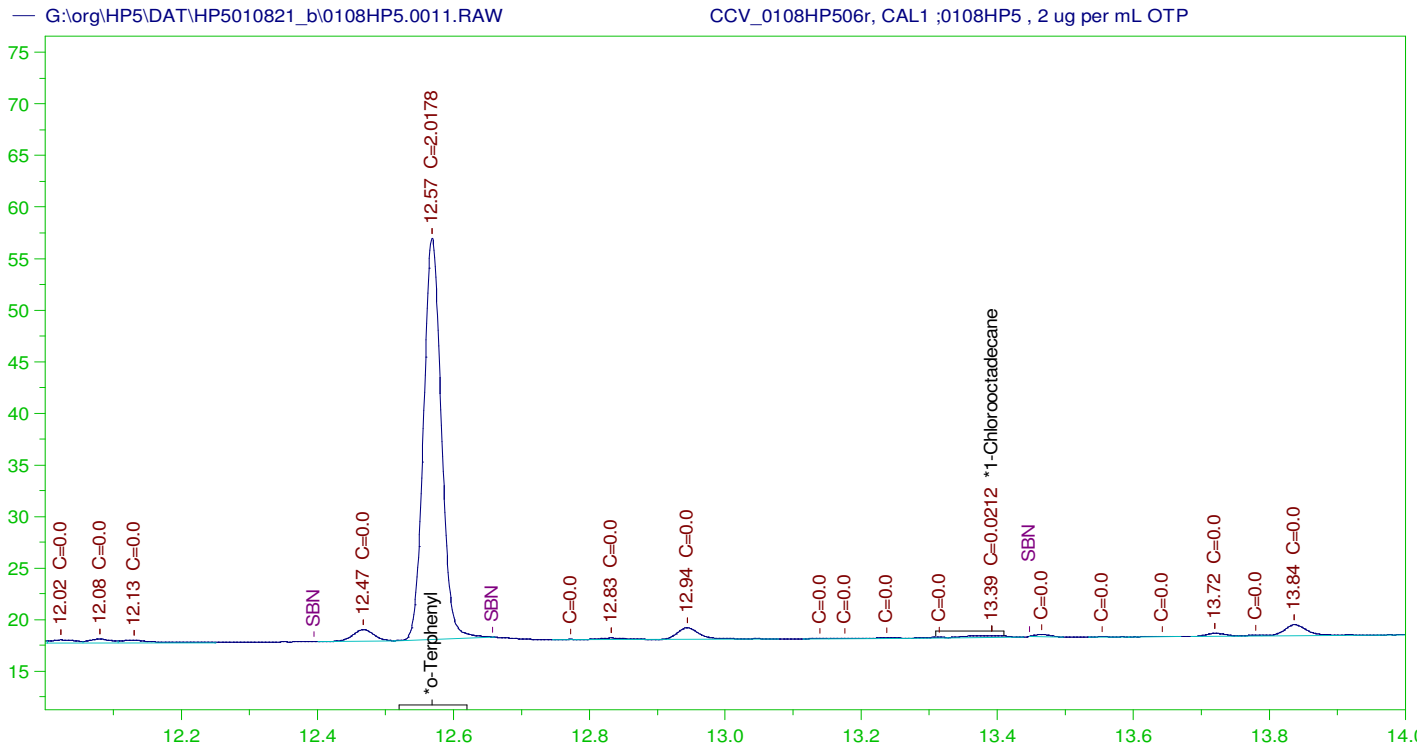
DRO Area:1.438162E+09 DRO Amount: 48821.87
TEH Area:1.473937E+09 TEH Amount: 50036.34

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 50036.34 | 333.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | 85-115 |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\010_CCV_0108HP515r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW
Date & Time Acquired: 1/8/2021 5:52:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | - |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | - |

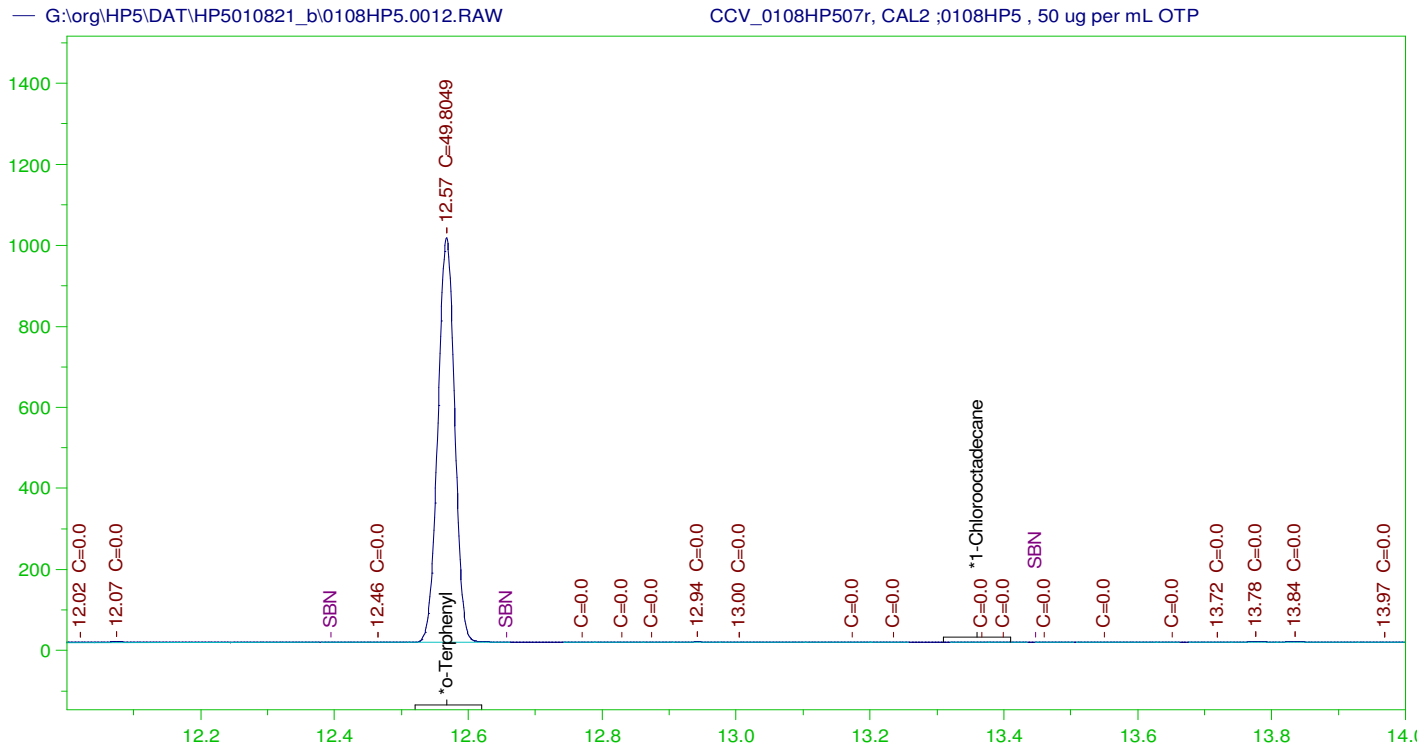
DRO Area:153898.5 DRO Amount: 5.224453
TEH Area:367701.2 TEH Amount: 12.4825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | 85-115 |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\011_CCV_0108HP506r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW
Date & Time Acquired: 1/8/2021 6:34:45 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | - |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | - |

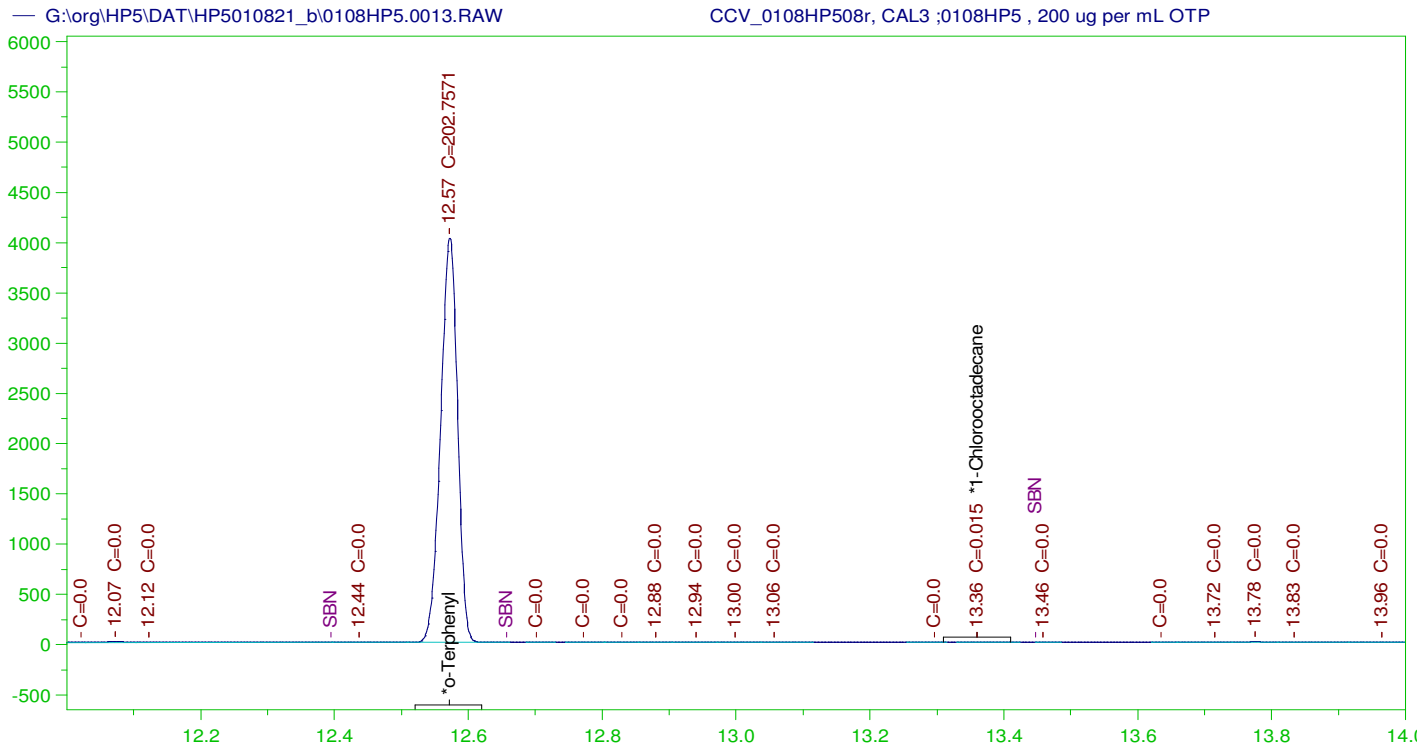
DRO Area:198540.3 DRO Amount: 6.739929
TEH Area:443484.3 TEH Amount: 15.05514

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | 85-115 |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\012_CCV_0108HP507r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW
Date & Time Acquired: 1/8/2021 7:17:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | - |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | - |

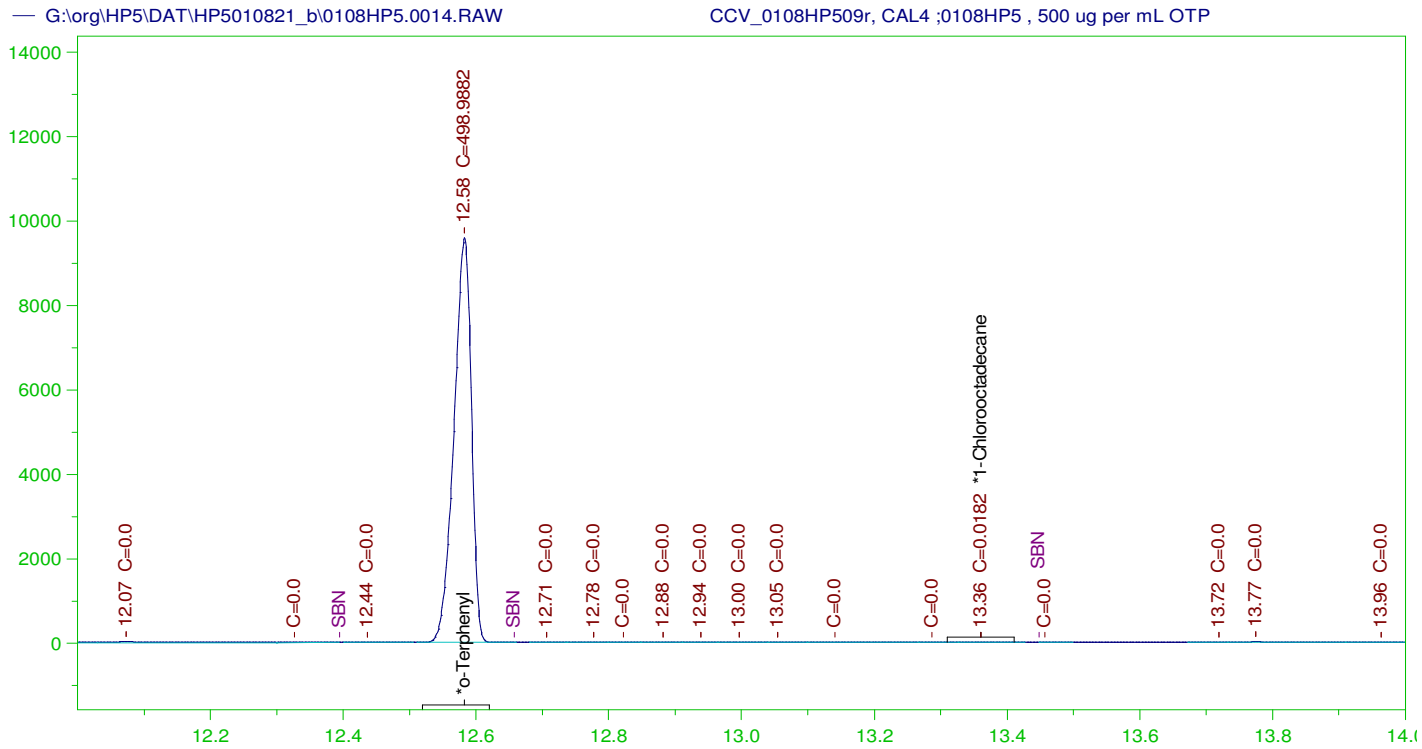
DRO Area:425468.4 DRO Amount: 14.44355
TEH Area:809202.7 TEH Amount: 27.47033

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 27.47 | .18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | 85-115 |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\013_CCV_0108HP508r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW
Date & Time Acquired: 1/8/2021 7:59:52 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | - |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | - |

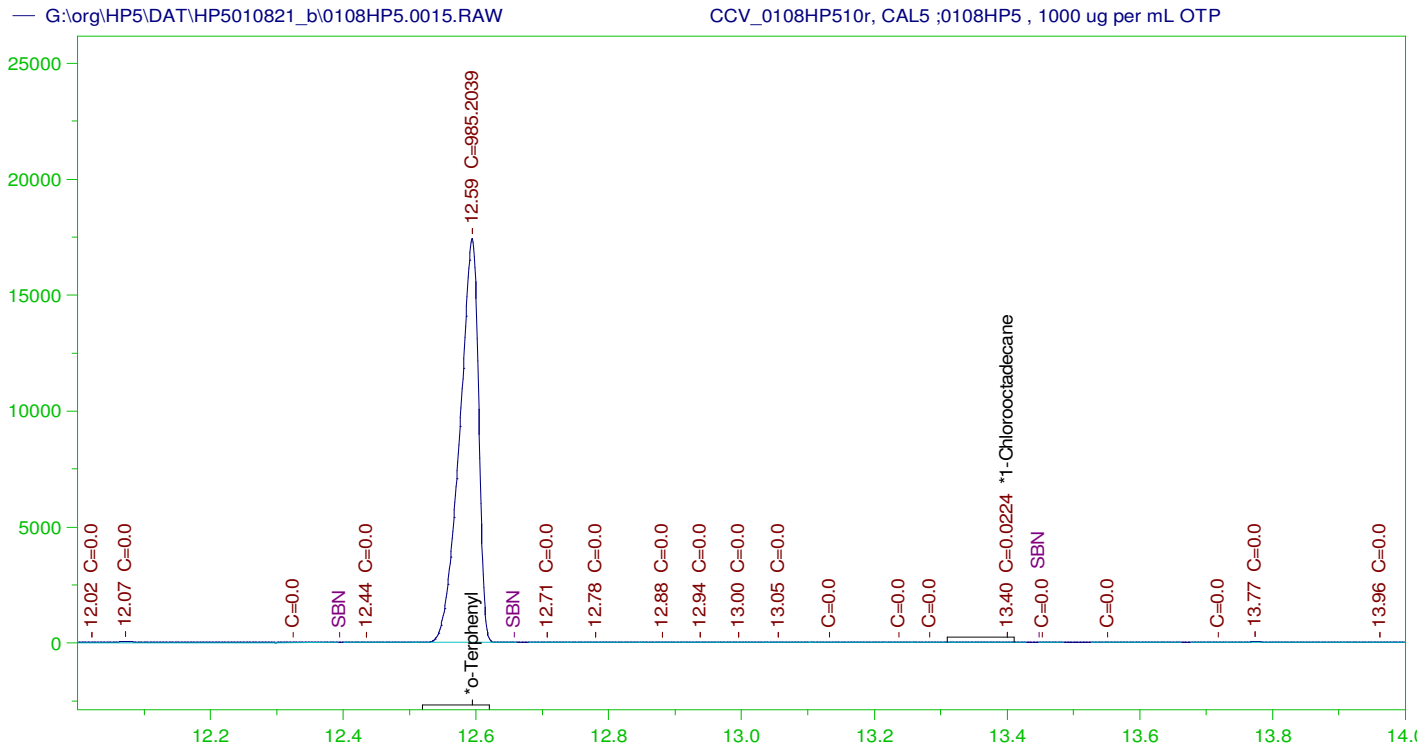
DRO Area:651862.6 DRO Amount: 22.12904
TEH Area:1164840 TEH Amount: 39.5433

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39.54 | .26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | 85-115 |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\014_CCV_0108HP509r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW
Date & Time Acquired: 1/8/2021 8:42:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | - |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | - |

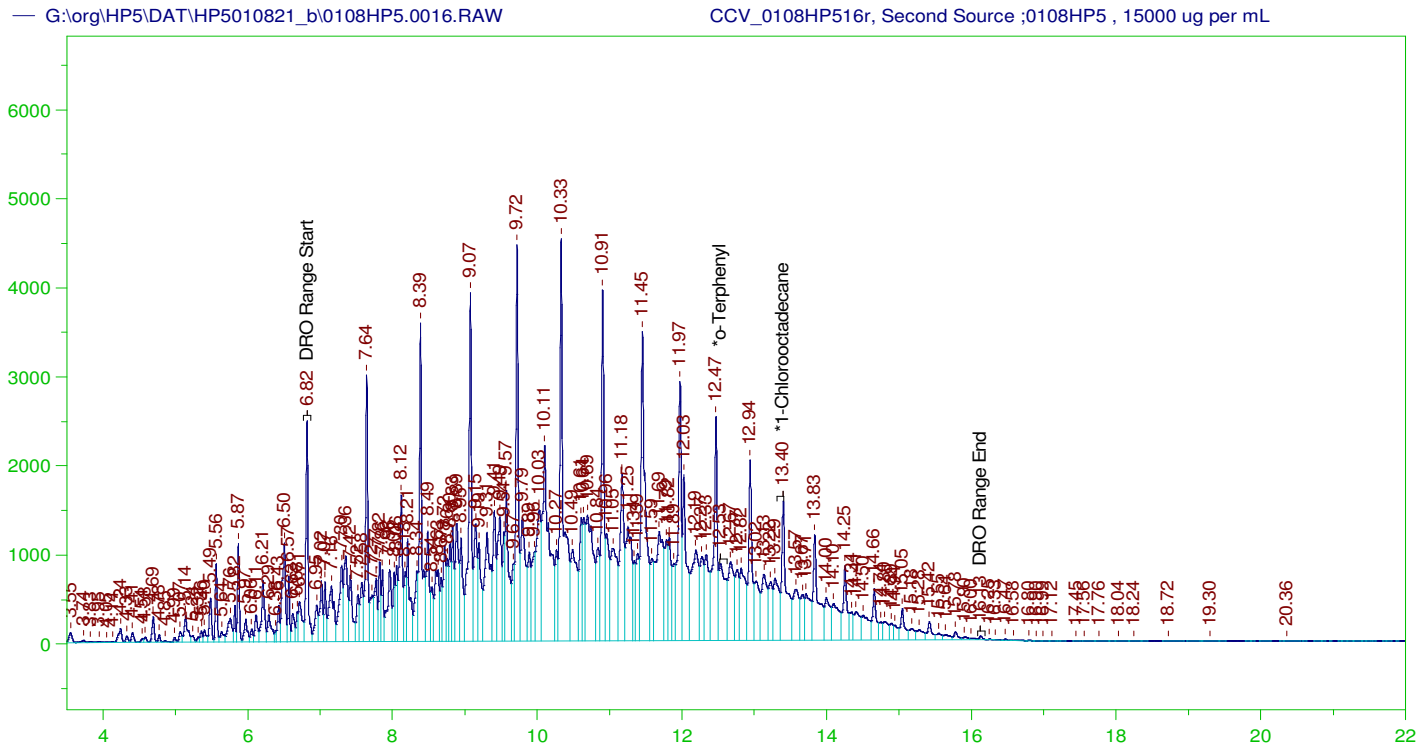
DRO Area:856596.9 DRO Amount: 29.07924
TEH Area:1371563 TEH Amount: 46.561

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 46.56 | .31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | 85-115 |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\015_CCV_0108HP510r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW
Date & Time Acquired: 1/8/2021 9:25:08 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | - |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | - |

DRO Area:4.138122E+08 DRO Amount: 14047.85
TEH Area:4.4015E+08 TEH Amount: 14941.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 14941.95 | 99.61 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | 85-115 |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\016_CCV_0108HP516r_DC_8015-HA-L%.xls

Write Sequence

Insert Entries(Have the first cell for entries selected)

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj.. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | Integration is valley to valley. Assigned Set Baseline All Valley on at 17.5. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.01.27 15:17:17 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Sep-21*

**Run ID** GCFID-HP5-B_210218B

**Run Start Date:** 2/18/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015 OIL range calibration
SW8015_OIL210218

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL | 8/31/2025 |
| DRO210204A | Carbon Scan STD | | | | | MARKER | 3/5/2028 |
| DRO210217A | 20,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | ICV | 8/23/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282665 | CCV_0218HP50 | HC-8015-DRO- | CAL1 | | 2/18/2021 12:03: | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1468323 | | 0.15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282666 | CCV_0218HP50 | HC-8015-DRO- | CAL2 | | 2/18/2021 1:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.062811 | | 1 | 0 | 0 | 0.15 | 0.3 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282667 | CCV_0218HP50 | HC-8015-DRO- | CAL3 | | 2/18/2021 2:51:0 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.035713 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282668 | CCV_0218HP50 | HC-8015-DRO- | CAL4 | | 2/18/2021 4:14:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.69295 | | 15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282669 | CCV_0218HP51 | HC-8015-DRO- | CAL5 | | 2/18/2021 5:38:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 28.20769 | | 30 | 0 | 0 | 0.15 | 0.3 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282670 | CCV_0218HP51 | HC-8015-DRO- | ICV | | 2/18/2021 8:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.474465 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 109% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Nam | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Version: 4

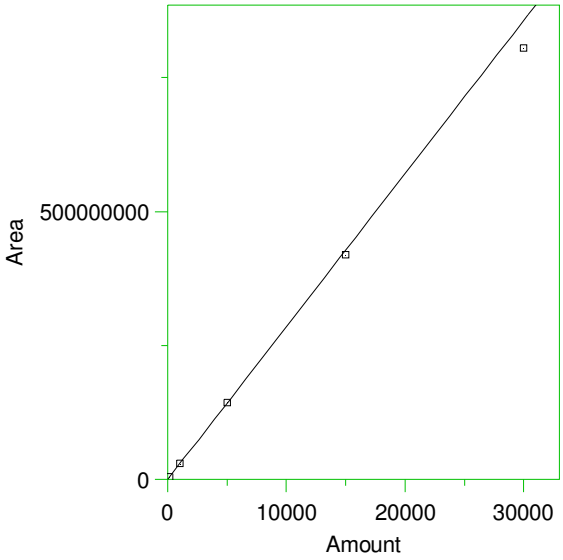
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.54 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

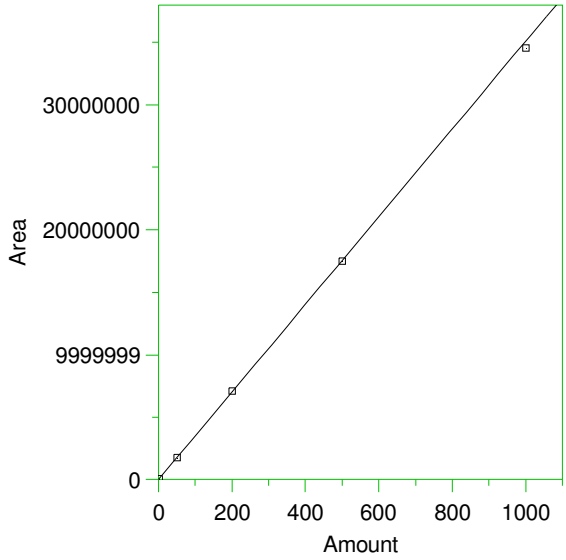
Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9940317 |
| Average error: | 3.209% |
| Average CF: | 28542.41 |
| RSD: | 4.497% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 3/30/2021 11:50:57 AM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 3/30/2021 11:51:41 AM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 3/30/2021 11:52:00 AM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 3/30/2021 11:52:55 AM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 3/30/2021 11:52:32 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.14 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

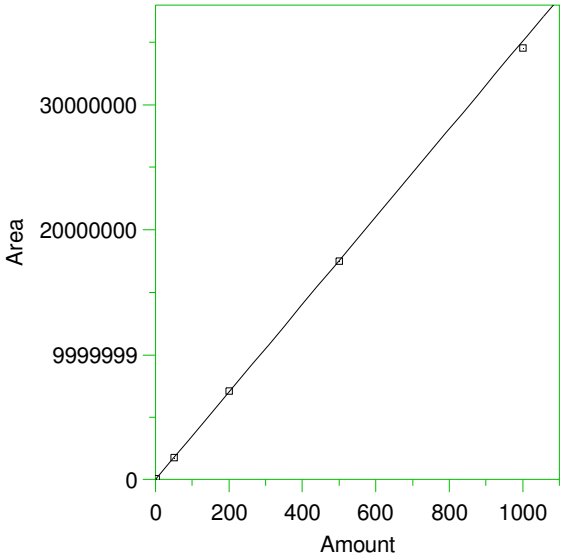
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.95 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

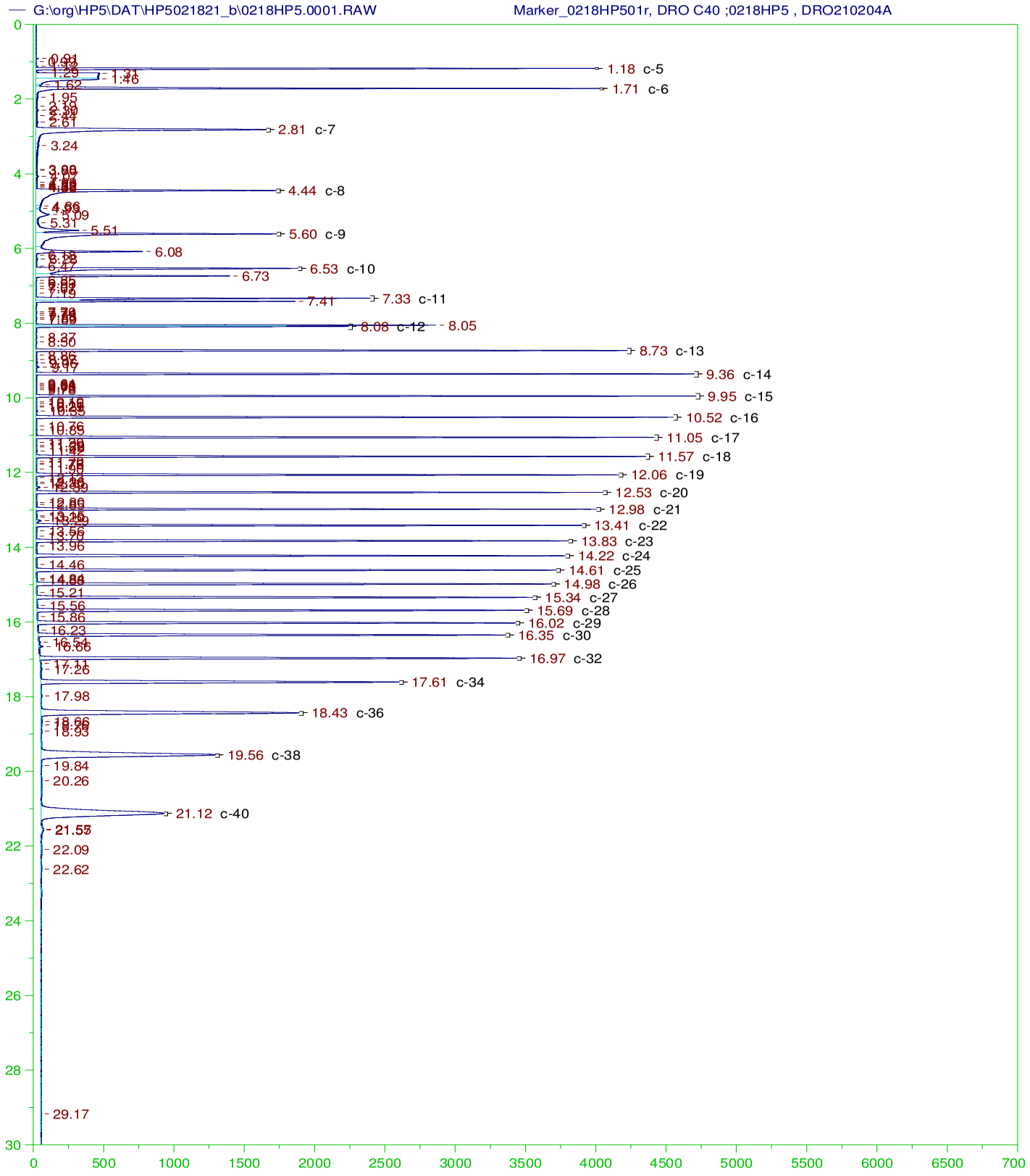
Single peak quantification by area

Y = 35071.26 X + 0

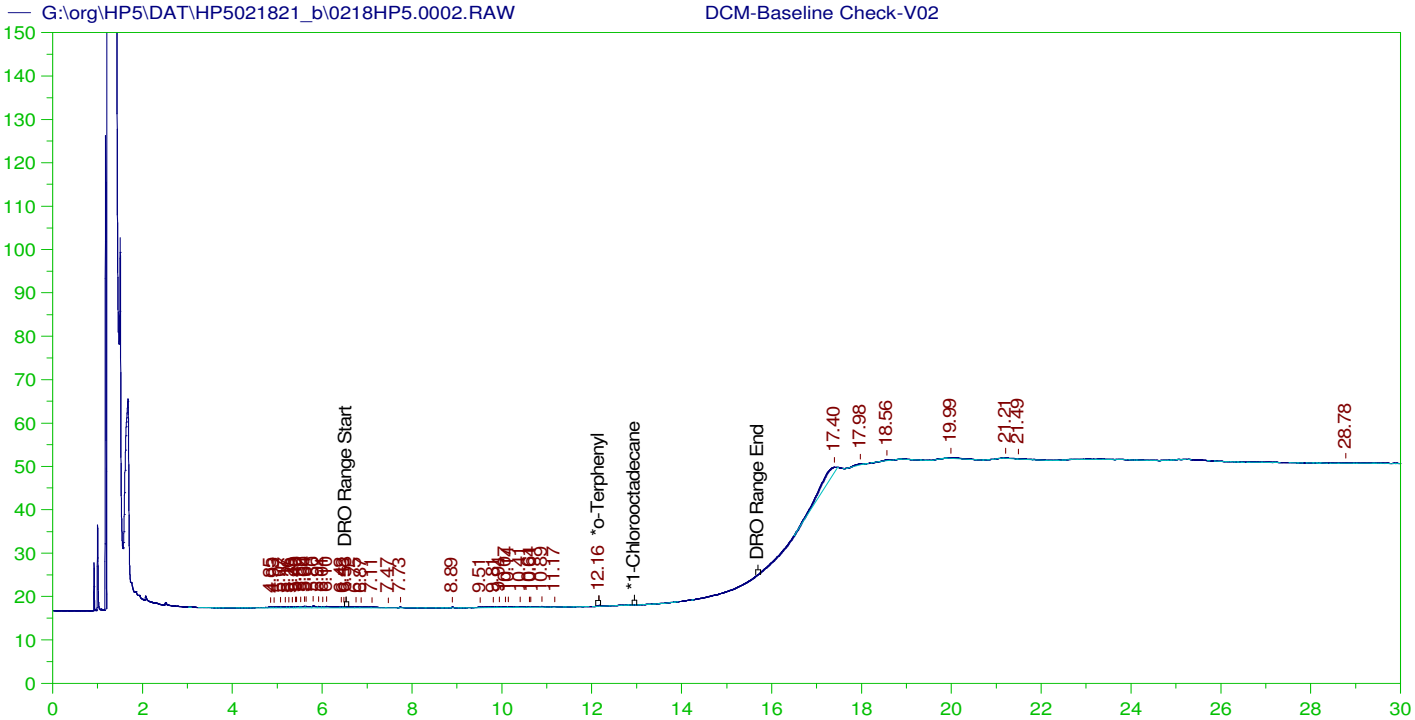
Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




G:\org\HP5\dat\HP5021821_b\Review\001_Marker_0218HP501r_CSC210212.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

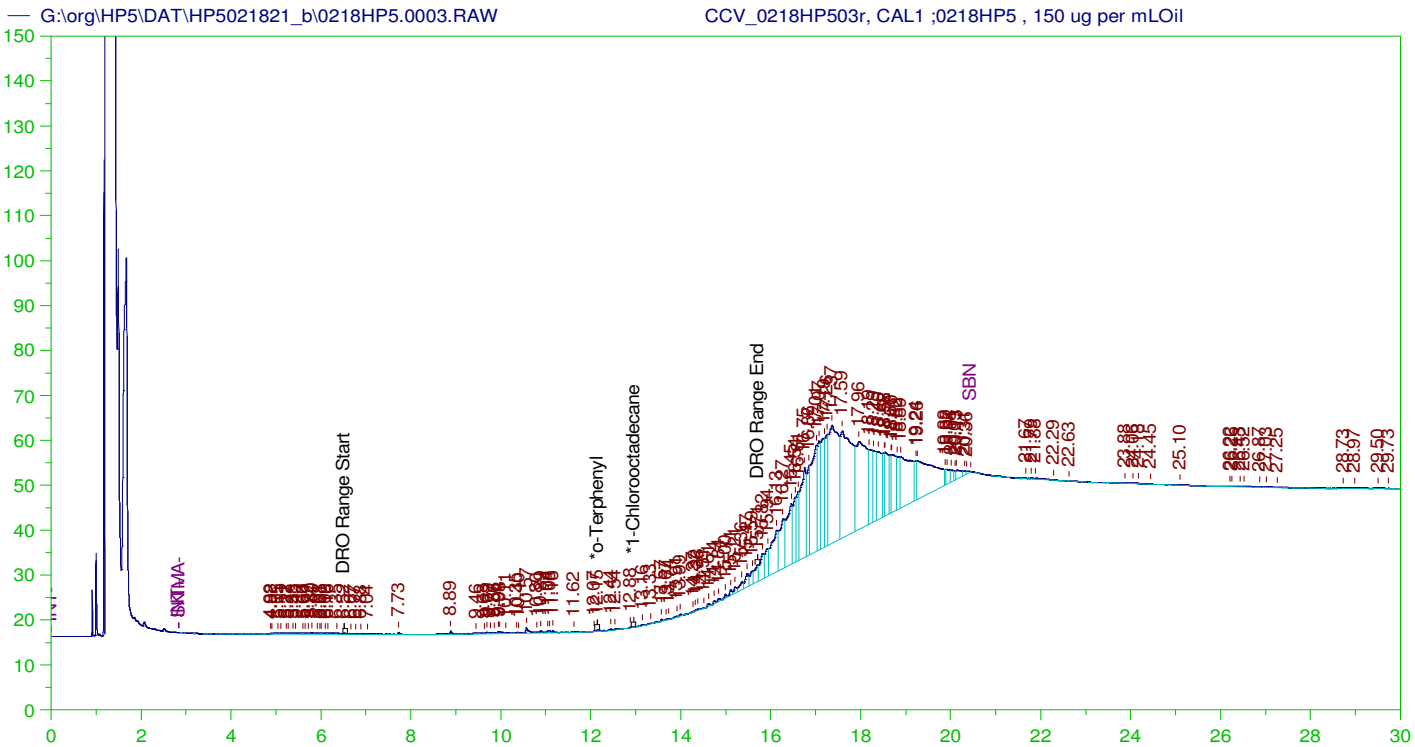
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
Date & Time Acquired: 2/18/2021 11:21:40 AM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.158 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 29.927 | 200. | . | . | - |

DRO Area:29553.31 DRO Amount: 1.003258
TEH Area:144057.3 TEH Amount: 4.890373

G:\org\HP5\dat\HP5021821_b\Review\002_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW
Date & Time Acquired: 2/18/2021 12:03:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021803-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . - |

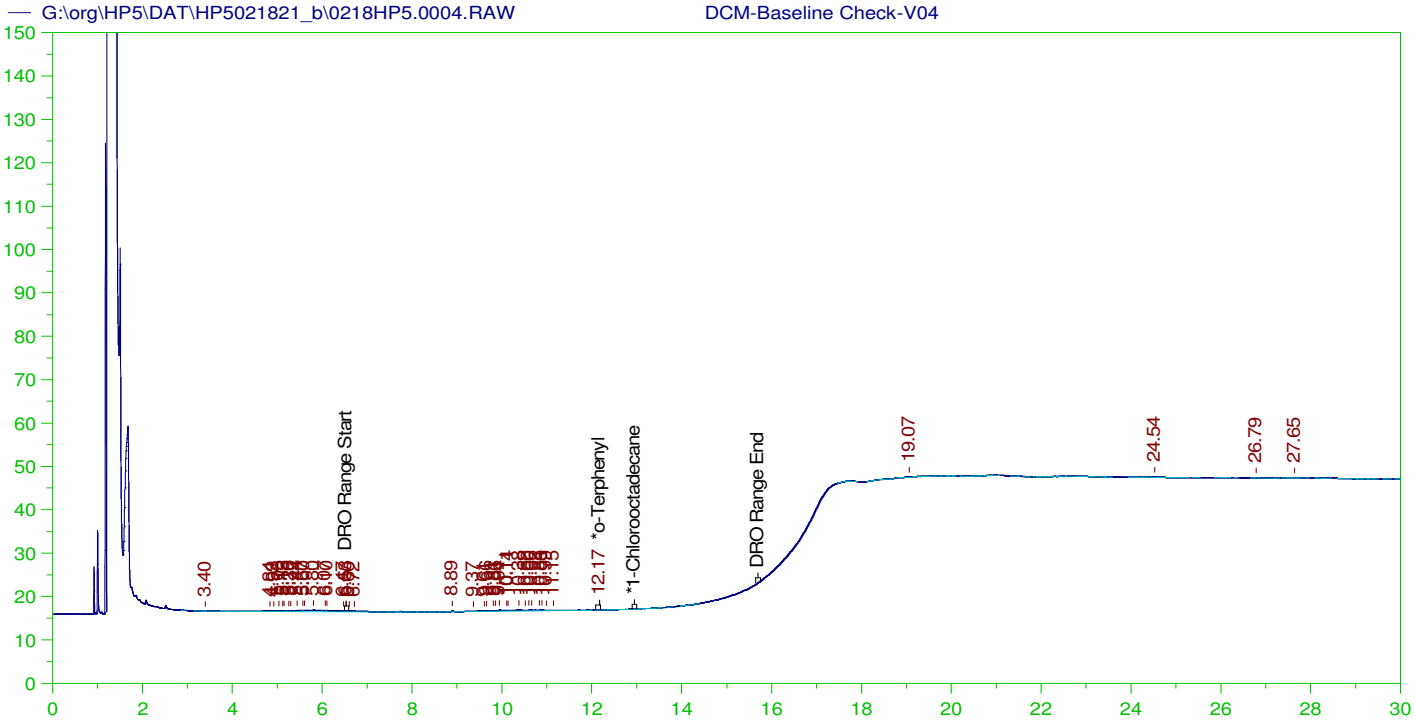
DRO Area:141843.8 DRO Amount: 4.969579
TEH Area:3766485 TEH Amount: 131.961

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 131.96 | 2.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | 85-115 |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\003_CCV_0218HP503r_DR_OIL-021803-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

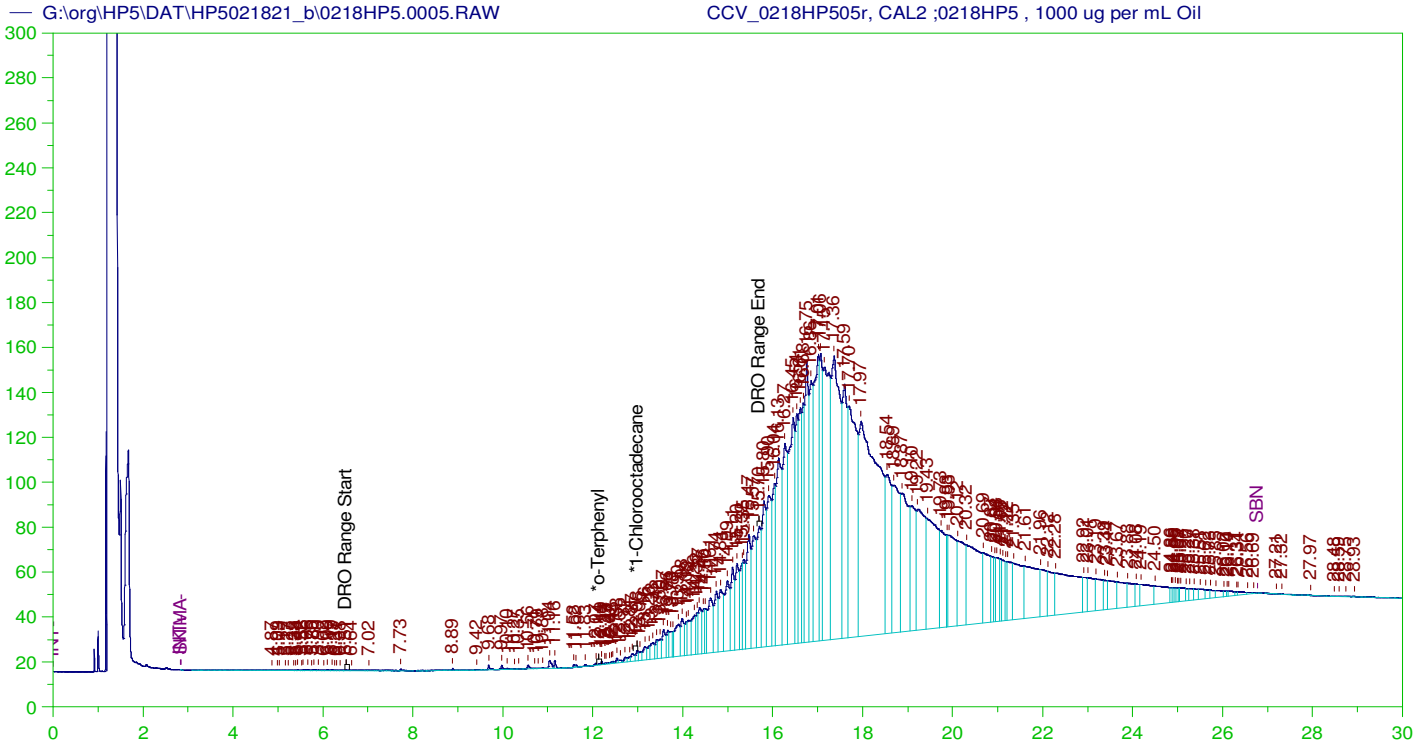
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
Date & Time Acquired: 2/18/2021 12:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.171 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.958 | 200. | . | . | - |

DRO Area:27245.38 DRO Amount: 0.9249101
TEH Area:63574.01 TEH Amount: 2.158173

G:\org\HP5\dat\HP5021821_b\Review\004_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW
Date & Time Acquired: 2/18/2021 1:27:30 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021805-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | - |

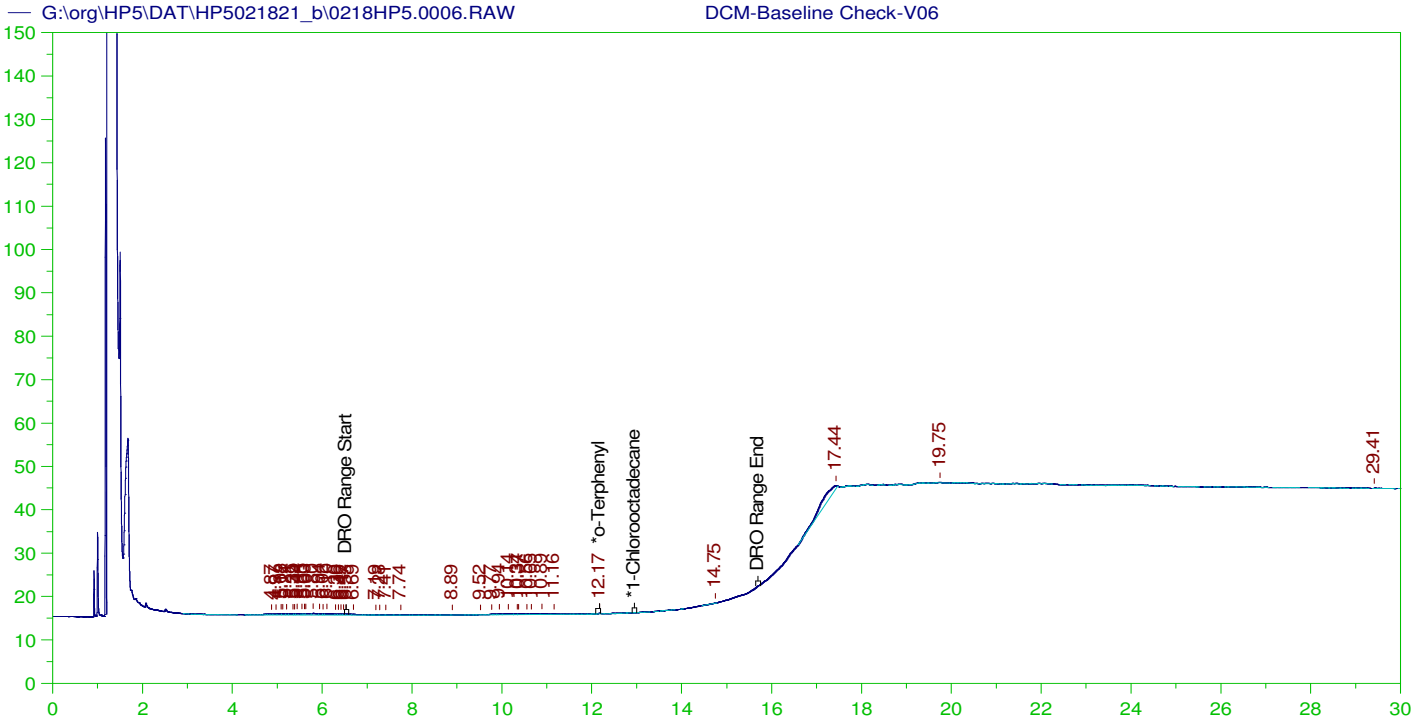
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1062.81 | 21.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | 85-115 |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\005_CCV_0218HP505r_DR_OIL-021805-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

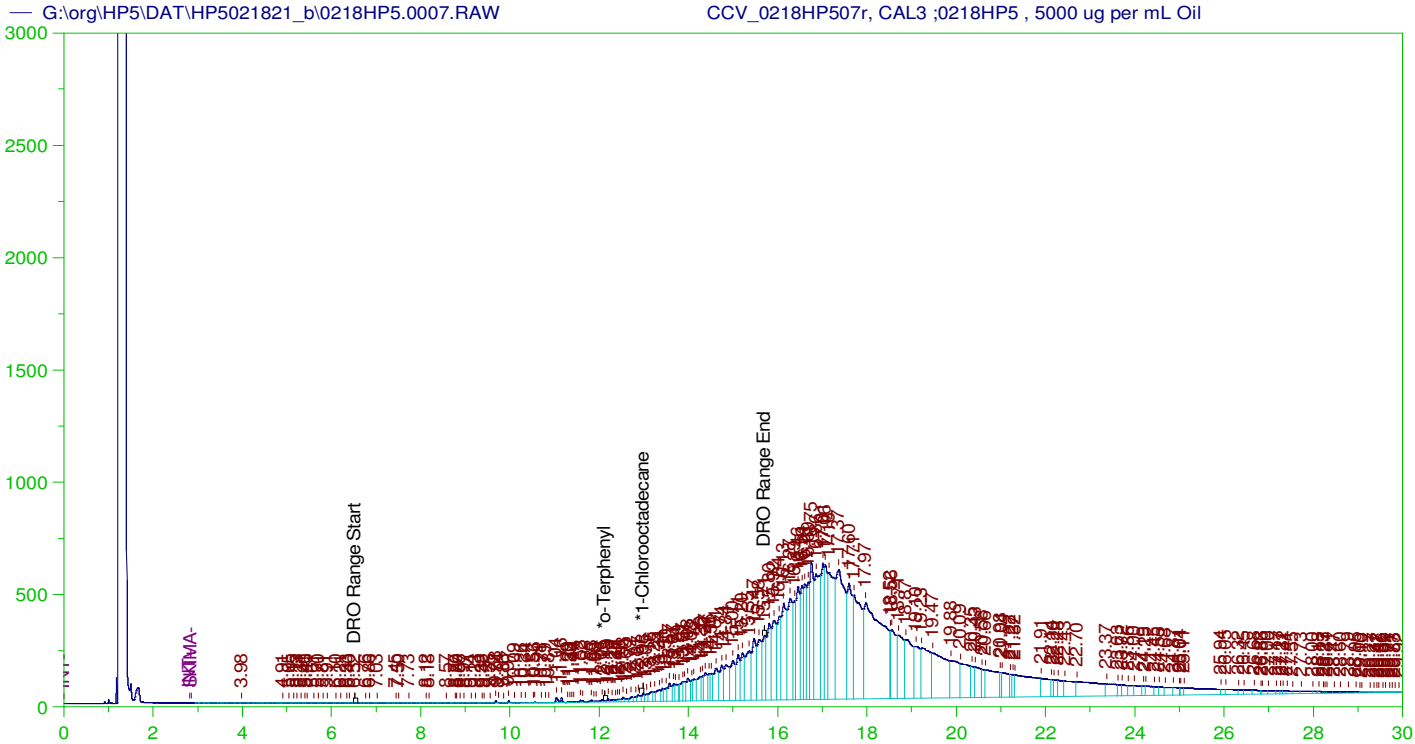
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0006.RAW
Date & Time Acquired: 2/18/2021 2:09:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:29249.25 DRO Amount: 0.9929362
TEH Area:123949.1 TEH Amount: 4.20775

G:\org\HP5\dat\HP5021821_b\Review\006_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW
Date & Time Acquired: 2/18/2021 2:51:00 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | - |

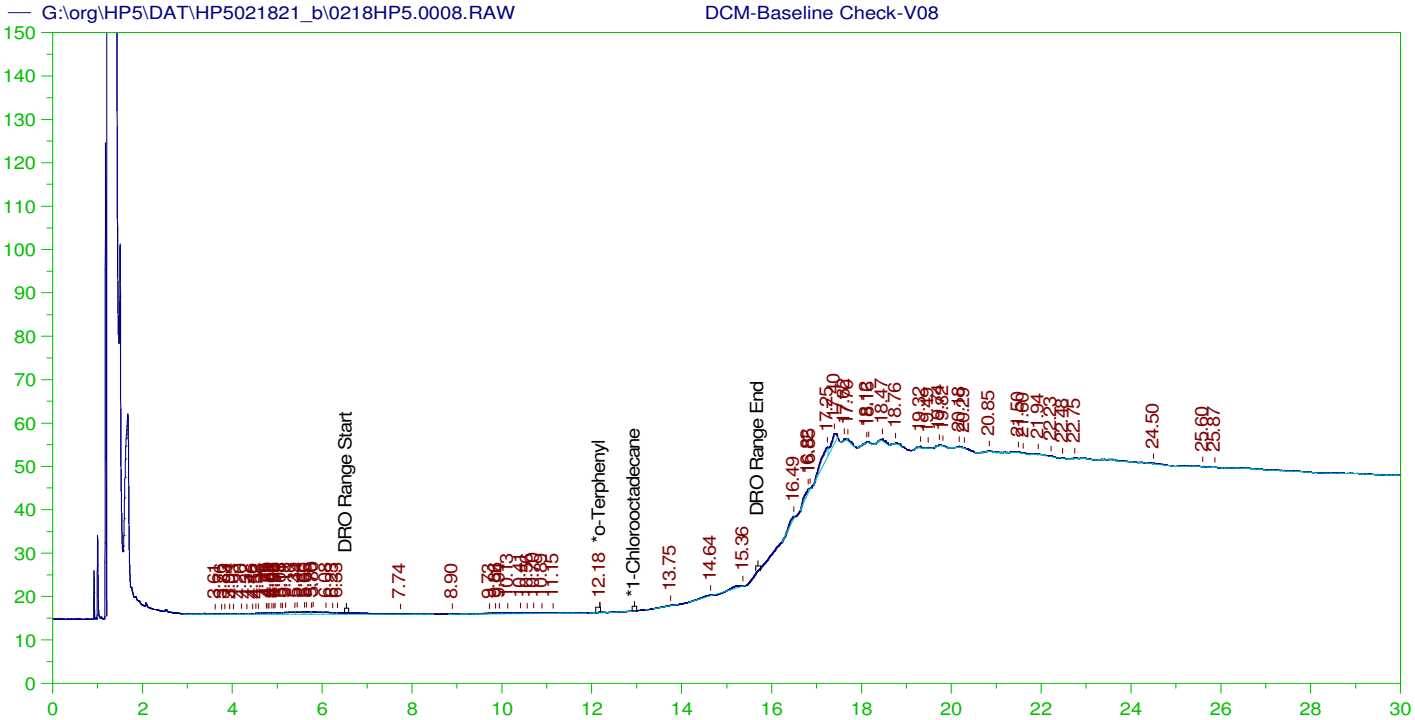
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5035.71 | 100.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\007_CCV_0218HP507r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

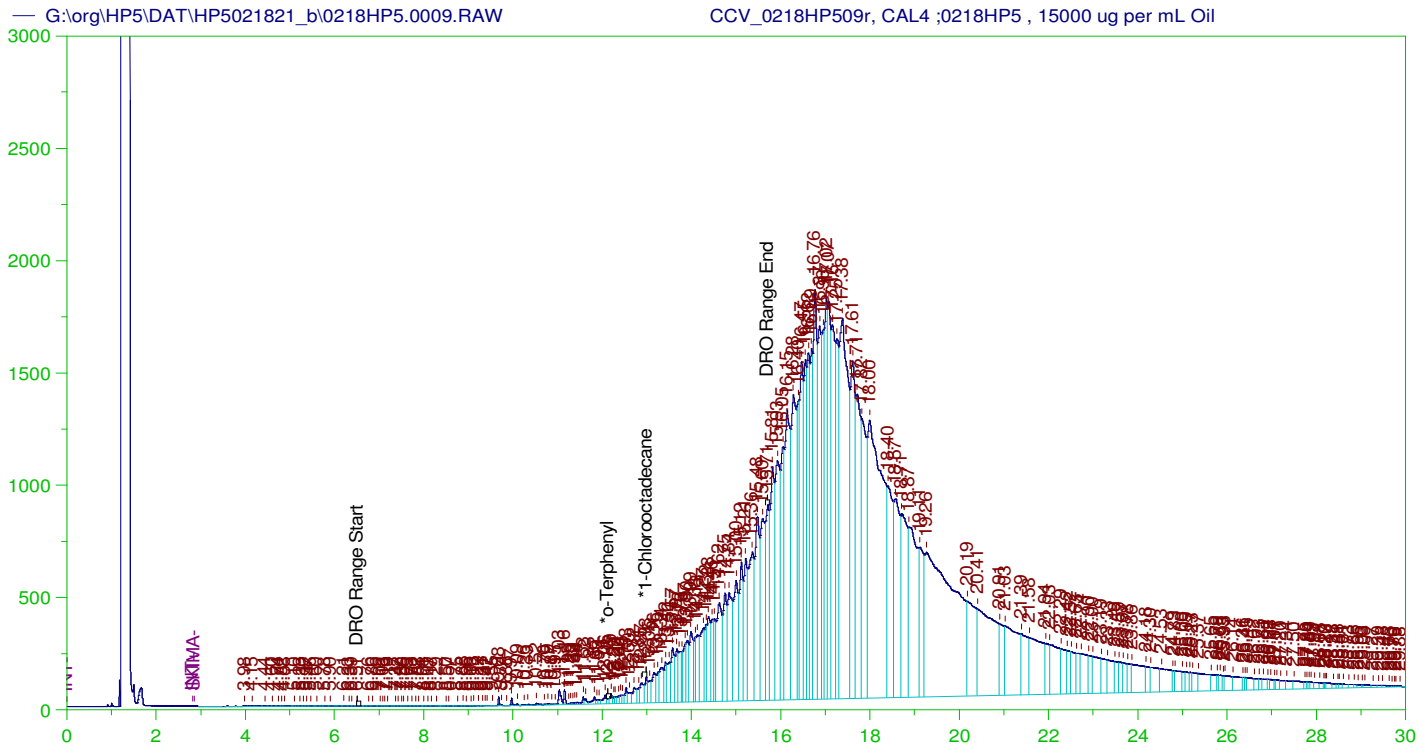
Sample Name: DCM-Baseline Check-V08
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0008.RAW
Date & Time Acquired: 2/18/2021 3:32:46 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .026 | .01 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:30717.07 DRO Amount: 1.042765
TEH Area:223672.8 TEH Amount: 7.593112

G:\org\HP5\dat\HP5021821_b\Review\008_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW
Date & Time Acquired: 2/18/2021 4:14:34 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | - |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | - |

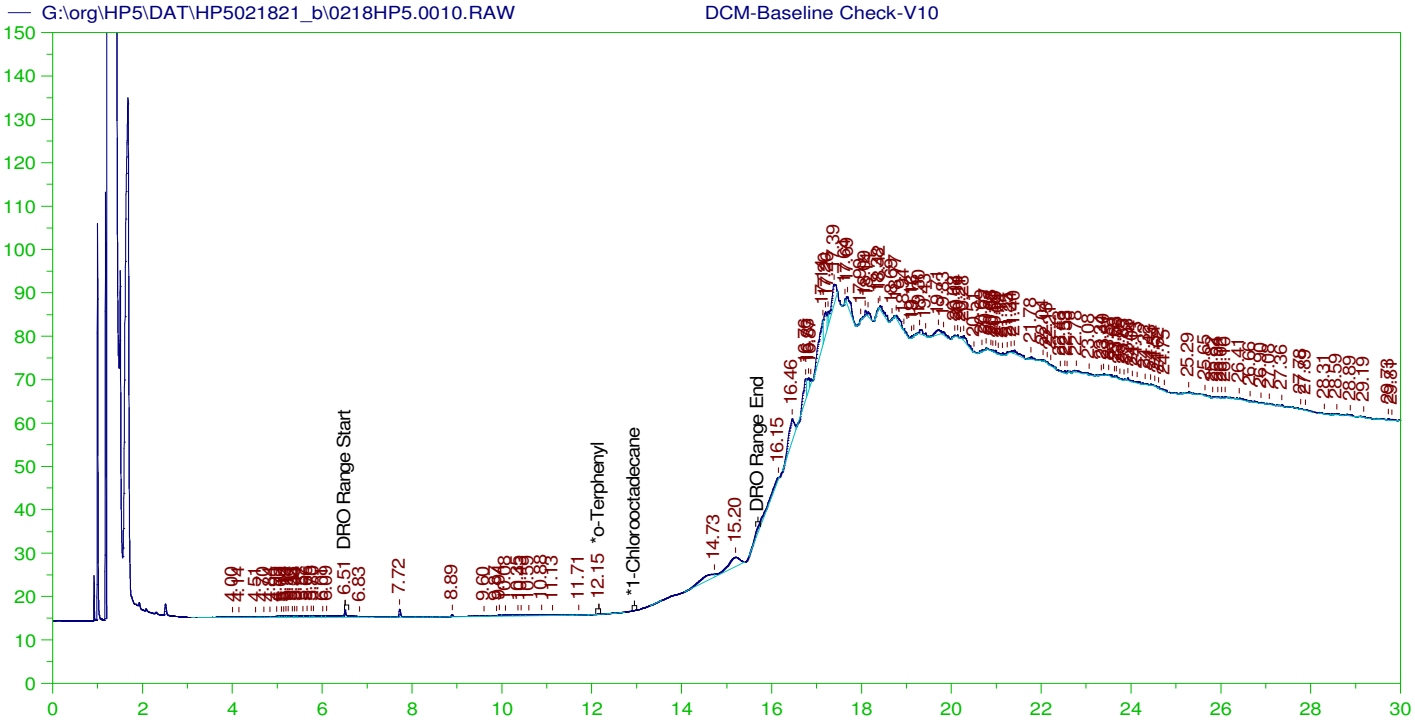
DRO Area:6.73131E+07 DRO Amount: 2358.354
TEH Area:4.193721E+08 TEH Amount: 14692.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14692.95 | 293.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | 85-115 |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\009_CCV_0218HP509r_DR_OIL-021807-AA-L0.xls



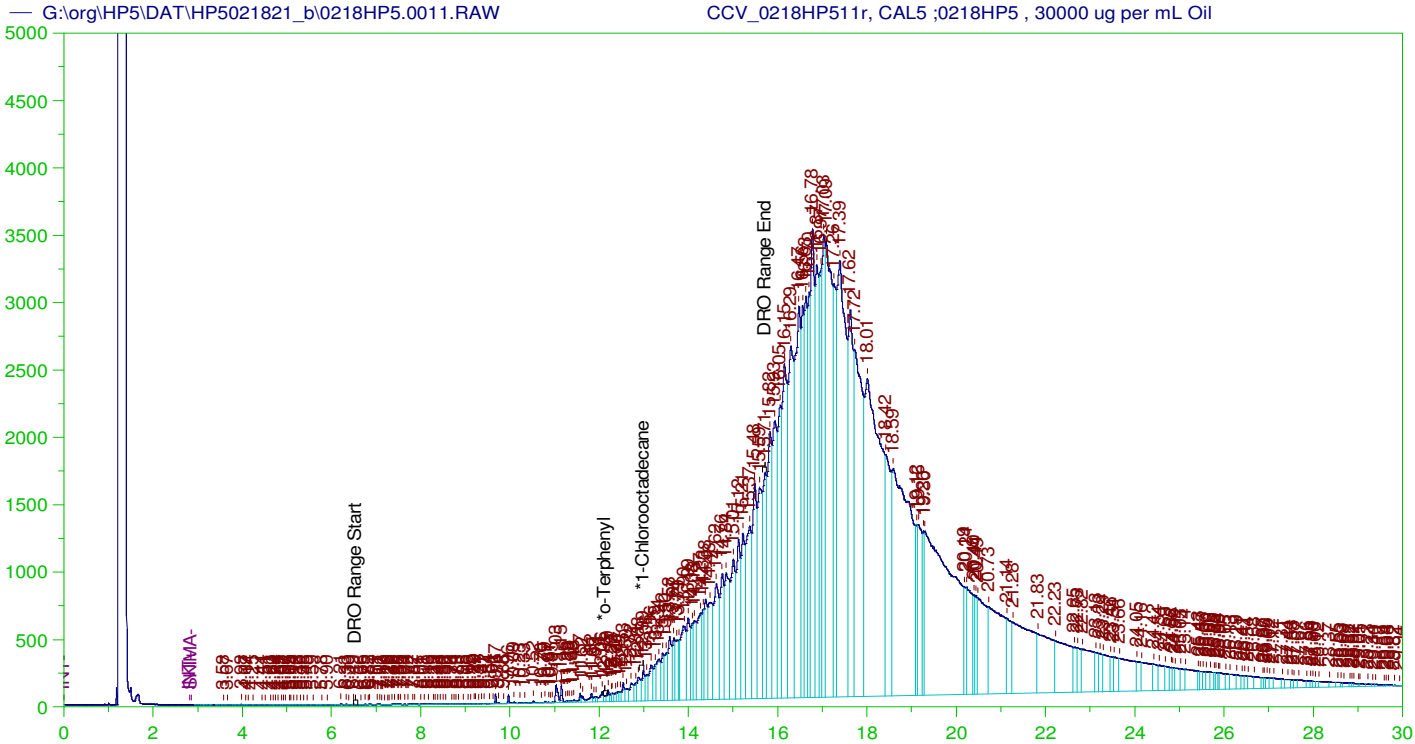

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0010.RAW
Date & Time Acquired: 2/18/2021 4:56:16 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.153 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.957 | 200. | . | . | - |

DRO Area:108629.1 DRO Amount: 3.687675
TEH Area:543425.7 TEH Amount: 18.44789




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW
Date & Time Acquired: 2/18/2021 5:38:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | - |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | - |

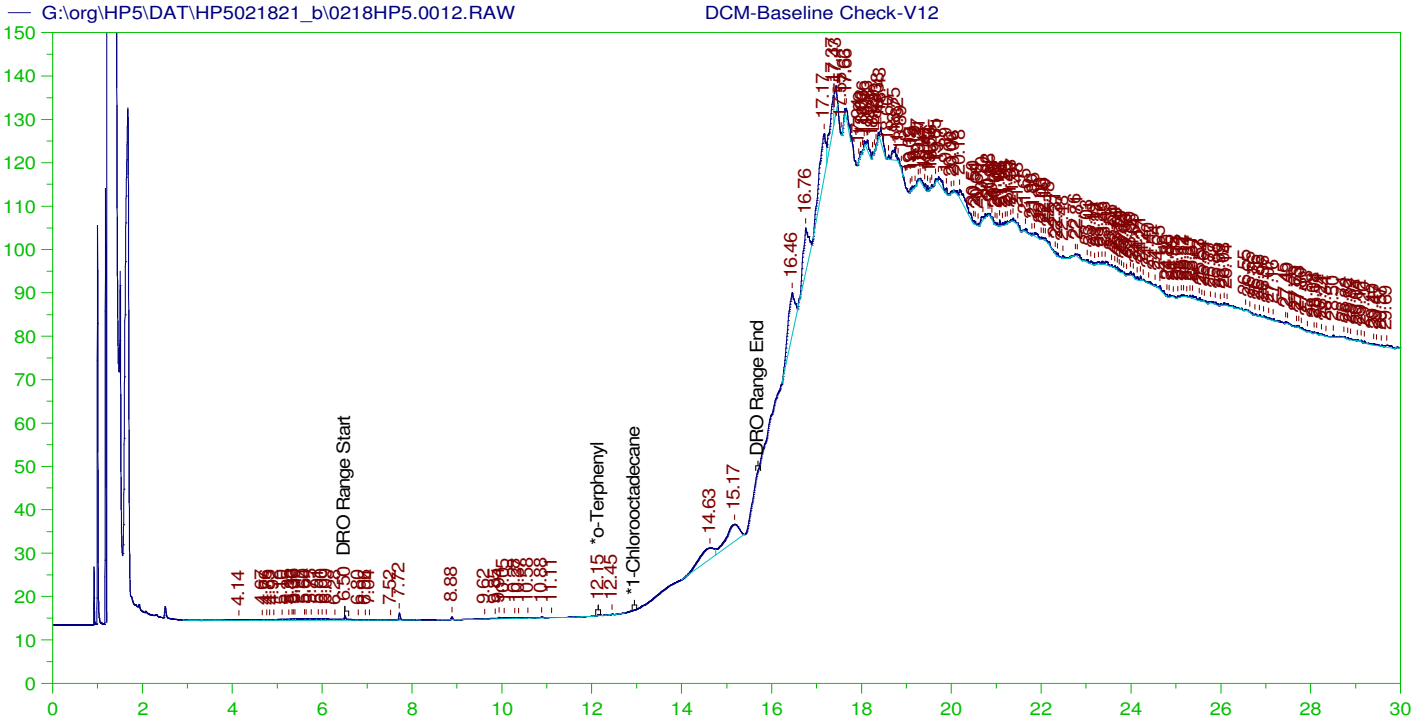
DRO Area:1.319327E+08 DRO Amount: 4622.338
TEH Area:8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 28207.69 | 564.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | 85-115 |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\011_CCV_0218HP511r_DR_OIL-021811-AA-L0.xls



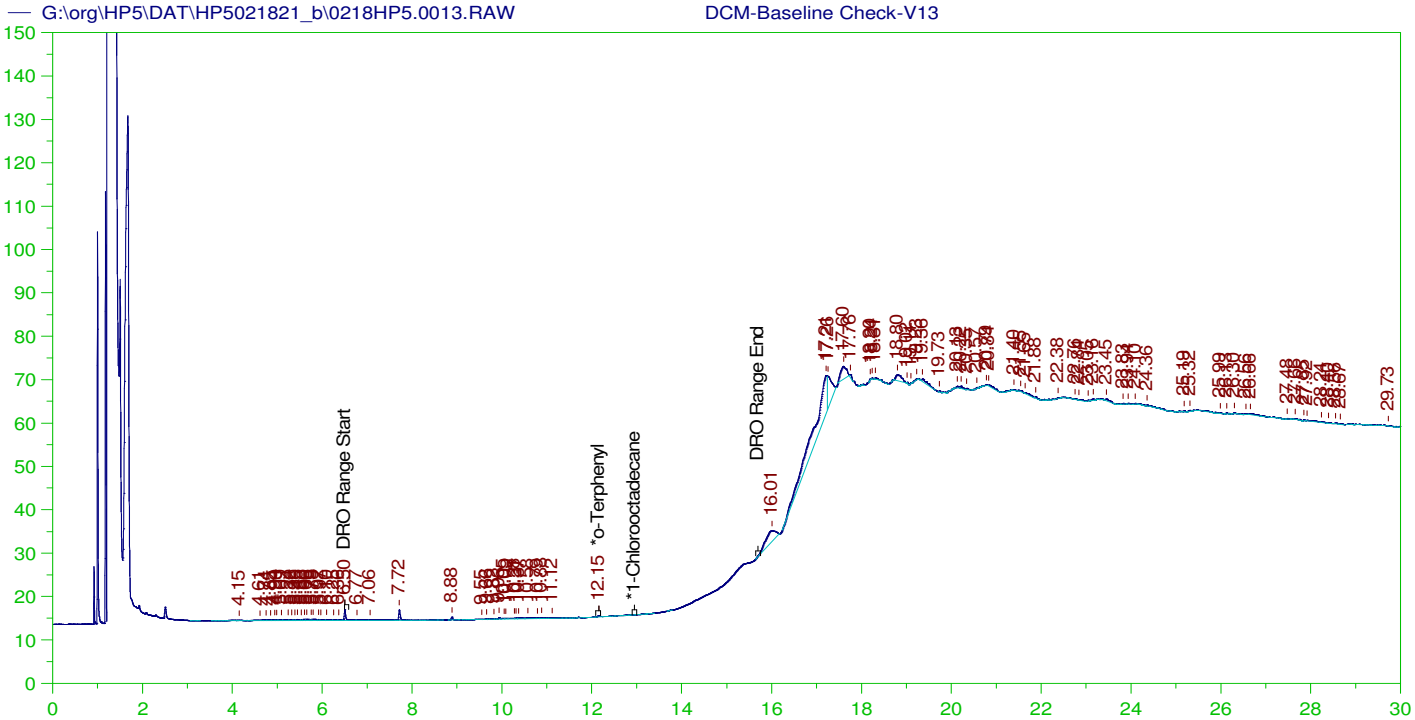

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0012.RAW
Date & Time Acquired: 2/18/2021 6:20:48 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:186033.1 DRO Amount: 6.31534
TEH Area:888262.2 TEH Amount: 30.1542




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

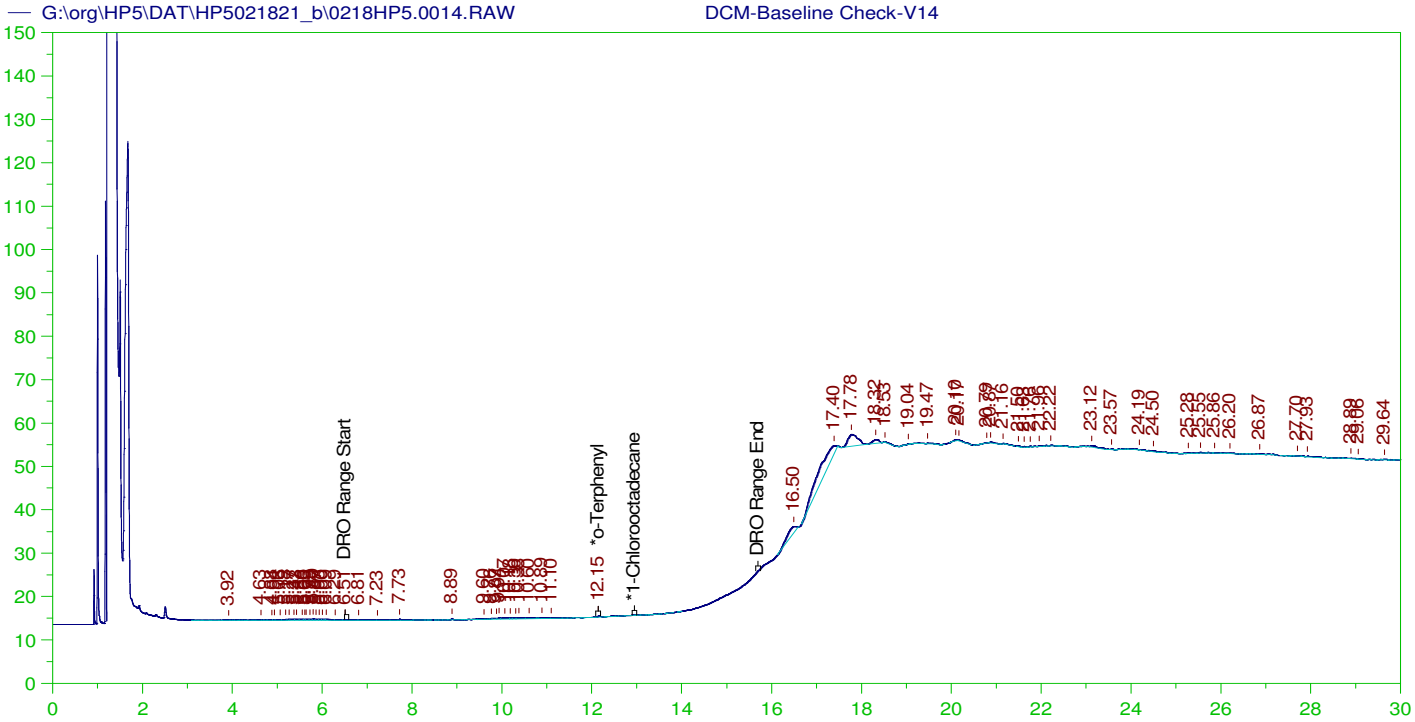
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0013.RAW
Date & Time Acquired: 2/18/2021 7:03:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.152 | 200. | .033 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:40824.55 DRO Amount: 1.385888
TEH Area:476705.3 TEH Amount: 16.18291

G:\org\HP5\dat\HP5021821_b\Review\013_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

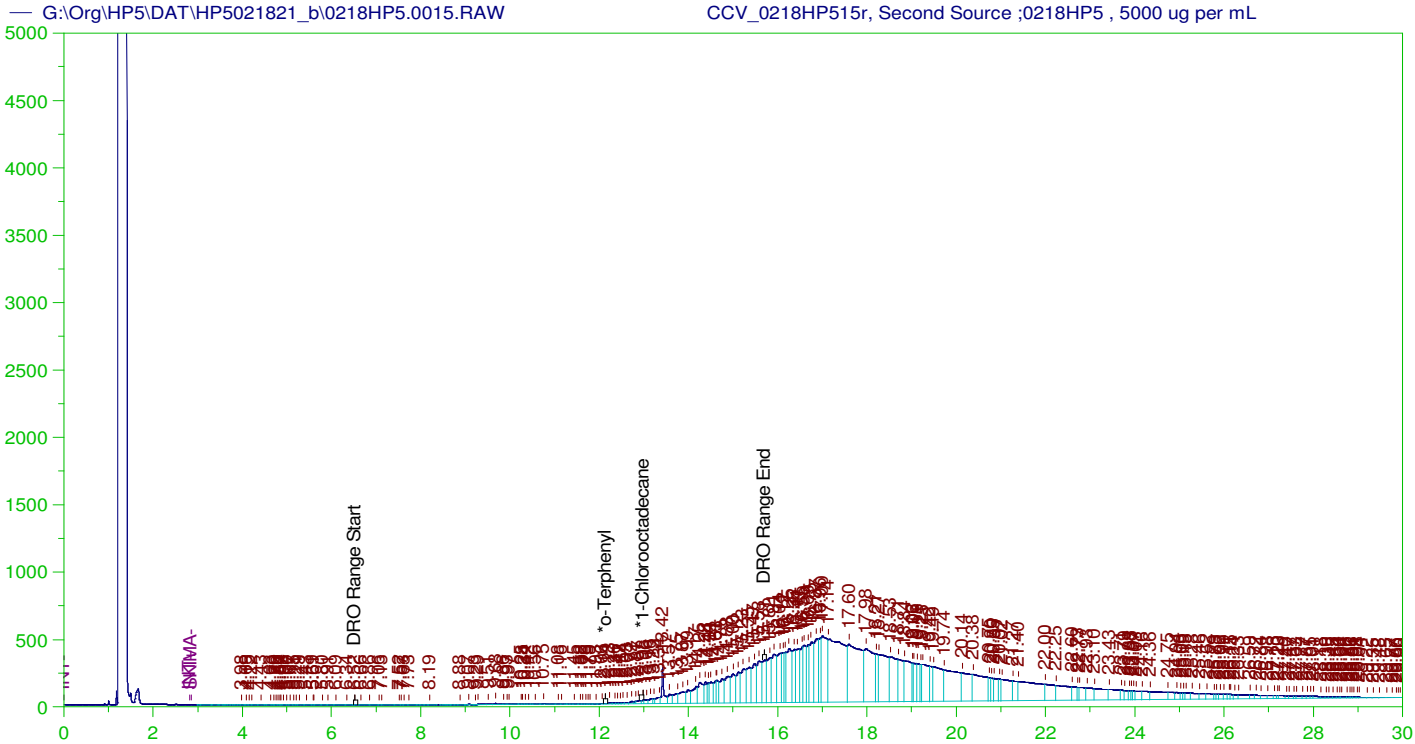
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0014.RAW
Date & Time Acquired: 2/18/2021 7:45:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.148 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.949 | 200. | . | . | - |

DRO Area:30445.24 DRO Amount: 1.033537
TEH Area:297634.4 TEH Amount: 10.10392

G:\org\HP5\dat\HP5021821_b\Review\014_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL
Raw File: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW
Date & Time Acquired: 2/18/2021 8:27:37 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 - |

DRO Area:2.558549E+07 DRO Amount: 0.8964027
TEH Area:1.562544E+08 TEH Amount: 5.474465

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5.47 | .11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | | 85-115 |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\015_CCV_0218HP515r_DR_OIL-021811-AA-L0.xls

| Write Sequence Data File | Sample Nan Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.09.20 13:12:26 -06:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/4/2021 2:22:42 PM**

Prep Batch **159988** Prep Temp: **NA °C** Batch Units: **ML** Prep End Date: **10/6/2021 1:10:00 PM**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MB-159988 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/4/2021 | 10/5/2021 |
| Start time: 2:10 PM, 10/4/2021. End time: 10/5/2021 at 8:10 AM. | | | | | | | | | | |
| LCS-159988 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/4/2021 | 10/5/2021 |
| All samples were SGT by ALN on 10/7/2021 except B21110171-001A. 0.9 mL of sample was SGT unless otherwise noted. | | | | | | | | | | |
| LCS-159988-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/4/2021 | 10/5/2021 |
| All bottles were completely used and disposed of. | | | | | | | | | | |
| B21100166-001A | Drinking Water | 2 | 1010 | 0 | 0 | 1.00 | 0.00099 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100166-001AMS | Drinking Water | 2 | 510 | 0 | 0 | 1.00 | 0.00196 | | 10/4/2021 | 10/5/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100166-001AMSD | Drinking Water | 2 | 510 | 0 | 0 | 1.00 | 0.00196 | | 10/4/2021 | 10/5/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100166-002A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100166-002AMS-RRO | Drinking Water | 2 | 525 | 0 | 0 | 1.00 | 0.0019 | | 10/4/2021 | 10/5/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100166-002AMSD-RRO | Drinking Water | 2 | 525 | 0 | 0 | 1.00 | 0.0019 | | 10/4/2021 | 10/5/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100166-003A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100166-004A | Drinking Water | 2 | 1020 | 0 | 0 | 1.00 | 0.00098 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100166-005A | Drinking Water | 2 | 1030 | 0 | 0 | 1.00 | 0.000971 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. -0.7 mL of sample was spilled after bottling. 0.25ml of sample for SGT. | | | | | | | | | | |
| B21100166-006A | Drinking Water | 2 | 1020 | 0 | 0 | 1.00 | 0.00098 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100166-007A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14206 | pH-indicator Strips 0-14 HC160347 | 8/26/2026 |
| 14323 | Dichloromethane EC075 | 7/21/2023 |
| 14354 | Dichloromethane EC119 | 8/3/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | all | 100uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 9/29/21 (1 | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | ALL-sgt Samples | 5 g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100uL | 9/1/2026 |
| DRO210802A | OTP/COD SURR 20 ug/mL | MDL | 100 uL | 9/30/2024 |
| DRO210902C | 3,000 ug/mL Oil Std For MDLS-In D | MDL | 100 uL | 9/1/2026 |

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/4/2021 2:22:42 PM**

Prep Batch **159988** Prep Temp: **NA °C** Batch Units: **ML** Prep End Date: **10/6/2021 1:10:00 PM**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| B21100166-008A | Drinking Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100171-001A | Drinking Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000943 | | 10/4/2021 | 10/5/2021 |
| Bottle 1/2. Clear. SGT was not carried out on this sample. | | | | | | | | | | |
| MDL1-159988-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/5/2021 | 10/6/2021 |
| Lines 17-19 Start time: 11:26 AM, 10/5/2021. End time: 10/6/2021 at 6:20 AM. | | | | | | | | | | |
| MDL2-159988-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/5/2021 | 10/6/2021 |
| MDL3-159988-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/5/2021 | 10/6/2021 |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14206 | pH-indicator Strips 0-14 HC160347 | 8/26/2026 |
| 14323 | Dichloromethane EC075 | 7/21/2023 |
| 14354 | Dichloromethane EC119 | 8/3/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | all | 100uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 9/29/21 (1 | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | ALL-sgt Samples | 5 g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100uL | 9/1/2026 |
| DRO210802A | OTP/COD SURR 20 ug/mL | MDL | 100 uL | 9/30/2024 |
| DRO210902C | 3,000 ug/mL Oil Std For MDLS-In D | MDL | 100 uL | 9/1/2026 |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*08-Oct-21*

**Run ID** GCFID-HP5-B_211004B

**Run Start Date:** 10/4/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748551 | MARKER_1004 | HC-8015-DRO- | SAMP | | 10/5/2021 8:19:3 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.21501 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.019629 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2077505 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.21501 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748552 | CCV_1004HP54 | HC-8015-DRO- | CCV | | 10/5/2021 9:07:0 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.799137 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 96% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2301445 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 115% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748553 | CCV_1004HP54 | HC-8015-DRO- | CCV | | 10/5/2021 9:58:4 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.898983 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.44391 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 110% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1959646 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748554 | LCS-159988 | HC-8015-DRO- | LCS-DOD | | 10/6/2021 4:00:4 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.50602 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 103% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.65463 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 111% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2170287 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 109% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748555 | MB-159988 | HC-8015-DRO- | MBLK | | 10/6/2021 4:52:2 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0749 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2110534 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 106% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748557 | B21100166-001 | HC-8015-DRO- | SAMP | | 10/6/2021 6:32:3 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038511 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.087021 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.074151 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.2020037 | | 0.198 | 0 | 0 | 0.0004247 | 0.002 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748558 | MARKER_1004 | HC-8015-DRO- | SAMP | | 10/6/2021 8:03:5 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748558 | MARKER_1004 | HC-8015-DRO- | SAMP | | 10/6/2021 8:03:5 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.260376 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.154036 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2107975 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.260376 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748559 | CCV_1004HP56 | HC-8015-DRO- | CCV | | 10/6/2021 8:49:3 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.527914 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 91% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2171167 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 109% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748560 | CCV_1004HP56 | HC-8015-DRO- | CCV | | 10/6/2021 9:34:3 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.698576 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 111% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 17.56553 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 117% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2091472 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748561 | B21100166-005 | HC-8015-DRO- | SAMP | | 10/6/2021 11:07: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0377719 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.16502512 | | 0 | 0 | 0 | 0.0853509 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.289911 | | 0 | 0 | 0 | 0.0727279 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.1751528 | | 0.1942 | 0 | 0 | 0.0004166 | 0.002 | 0 | 90% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748562 | B21100166-002 | HC-8015-DRO- | SAMP | | 10/6/2021 11:54: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748562 | B21100166-002 | HC-8015-DRO- | SAMP | | 10/6/2021 11:54: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1777408 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 92% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748563 | B21100166-003 | HC-8015-DRO- | SAMP | | 10/6/2021 12:42: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0.2121466 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.163523 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 85% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748564 | B21100166-004 | HC-8015-DRO- | SAMP | | 10/6/2021 1:29:5 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.37585098 | | 0 | 0 | 0 | 0.086142 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0.566905 | | 0 | 0 | 0 | 0.073402 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1185309 | | 0.196 | 0 | 0 | 0.0004204 | 0.002 | 0 | 60% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748565 | B21100166-006 | HC-8015-DRO- | SAMP | | 10/6/2021 3:57:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.086142 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0.2215073 | | 0 | 0 | 0 | 0.073402 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.2118785 | | 0.196 | 0 | 0 | 0.0004204 | 0.002 | 0 | 108% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748566 | B21100166-007 | HC-8015-DRO- | SAMP | | 10/6/2021 4:45:5 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.32147115 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0.4977794 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1790147 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 93% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748567 | MARKER_1004 | HC-8015-DRO- | SAMP | | 10/6/2021 6:22:5 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.142578 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.025165 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2035078 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.142578 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748568 | CCV_1004HP57 | HC-8015-DRO- | CCV | | 10/6/2021 7:10:4 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.567784 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 91% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2137363 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748569 | CCV_1004HP57 | HC-8015-DRO- | CCV | | 10/6/2021 7:58:2 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.2786 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 102% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.80149 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 105% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1894572 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 95% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748570 | B21100166-008 | HC-8015-DRO- | SAMP | | 10/6/2021 10:30: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748570 | B21100166-008 | HC-8015-DRO- | SAMP | | 10/6/2021 10:30: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.4168086 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.24378194 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.7322657 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1975949 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748571 | B21100166-001 | HC-8015-DRO- | MS-DOD | | 10/6/2021 11:22: | 1 | 159988 | 10/4/2021 2: | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 26.53676 | | 29.4 | 0 | 0 | 0.076244 | 0.588 | 0 | 90% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 28.26081 | | 29.4 | 0 | 0 | 0.146804 | 0.588 | 50 | 96% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.382976 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748572 | B21100166-001 | HC-8015-DRO- | MSD-DOD | | 10/7/2021 12:12: | 1 | 159988 | 10/4/2021 2: | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 26.16373 | | 29.4 | 0 | 26.53676 | 0.076244 | 0.588 | 0 | 89% | 36 | 132 | 1% | |
| Total Extractable Hydrocarbons | A | mg/L | | 28.43137 | | 29.4 | 0 | 28.26081 | 0.146804 | 0.588 | 50 | 97% | 60 | 132 | 1% | |
| o-Terphenyl | S | mg/L | | 0.3782645 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 96% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748573 | B21100166-002 | HC-8015-DRO- | MS-DOD | | 10/7/2021 1:04:5 | 1 | 159988 | 10/4/2021 2: | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.422656 | | 9.5 | 0 | 0 | 0.16701 | 0.57 | 0 | 99% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.4027373 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 106% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748574 | B21100166-002 | HC-8015-DRO- | MSD-DOD | | 10/7/2021 1:56:5 | 1 | 159988 | 10/4/2021 2: | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.194623 | | 9.5 | 0 | 9.422656 | 0.16701 | 0.57 | 0 | 97% | 41 | 113 | 2% | |
| o-Terphenyl | S | mg/L | | 0.3627076 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 95% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748575 | LCS-159988-RR | HC-8015-DRO- | LCS-DOD | | 10/7/2021 3:38:4 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.714775 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 94% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1967819 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748576 | MARKER_1004 | HC-8015-DRO- | SAMP | | 10/7/2021 5:23:4 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.154419 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.030235 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2041031 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.154419 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748577 | CCV_1004HP58 | HC-8015-DRO- | CCV | | 10/7/2021 6:15:3 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.64183 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 93% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2177886 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 109% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748578 | CCV_1004HP58 | HC-8015-DRO- | CCV | | 10/7/2021 7:02:4 | 1 | R368259 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.80833 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 105% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.35193 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1949001 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 97% | 80 | 120 | 0% | |

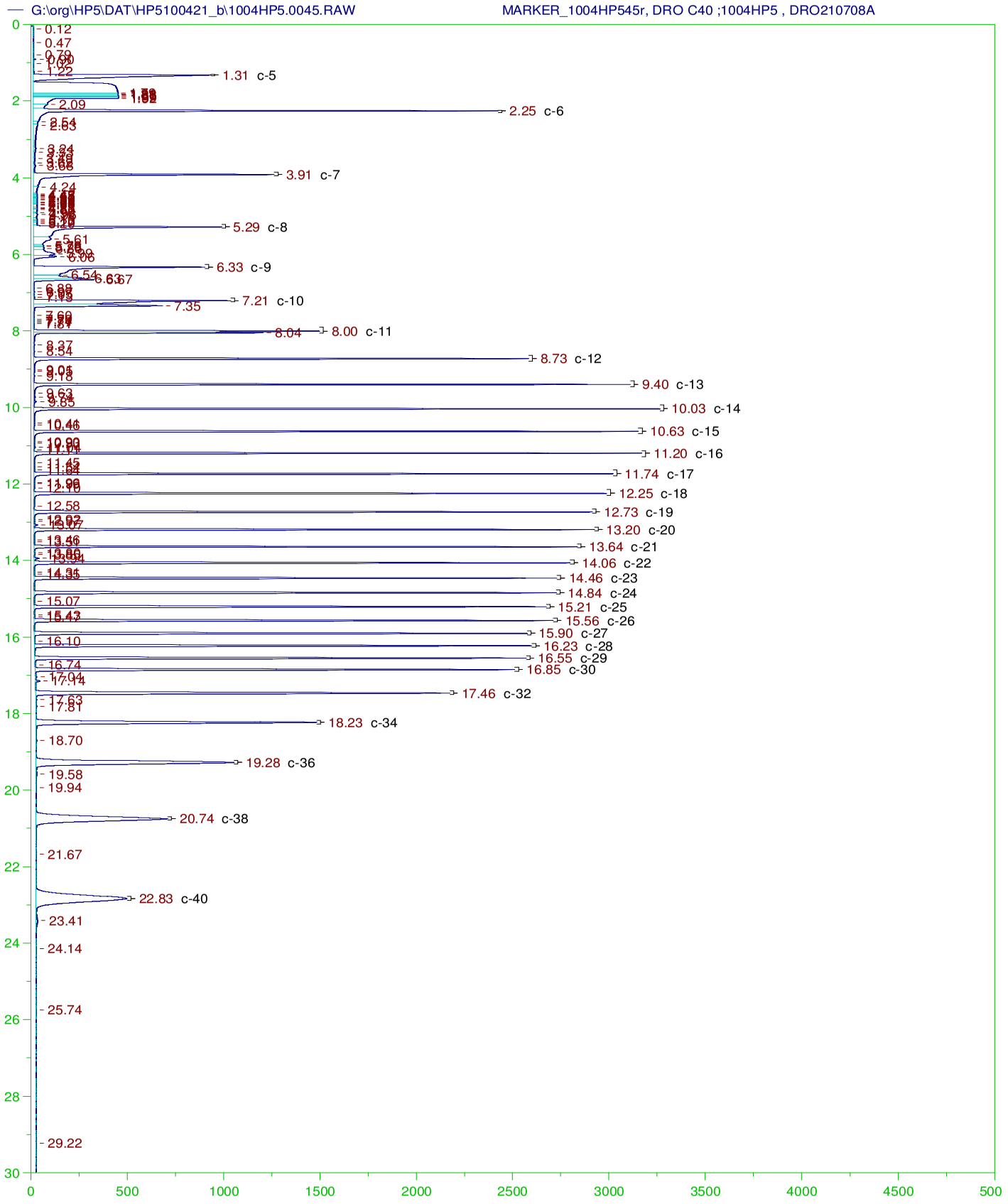
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748598 | B21100171-001 | HC-8015-DRO- | SAMP | | 10/6/2021 5:44:3 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0366827 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0828897 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0706307 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14748598 | B21100171-001 | HC-8015-DRO- | SAMP | | 10/6/2021 5:44:3 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.1862512 | | 0.1886 | 0 | 0 | 0.0004045 | 0.002 | 0 | 99% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1862512 | | 0.1886 | 0 | 0 | 0.0004045 | 0.001886 | 0 | 99% | 56 | 125 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5100421_b\1004HP5.45r | MARKER_1004HP545r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.46r | MARKER_1004HP546r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.47r | CCV_1004HP547r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.48r | CCV_1004HP548r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.54r | DCM-Baseline Check-V54 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.55r | LCS-159988 ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10045-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.56r | MB-159988 ;1004HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.57r | B21100171-001A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1060 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.58r | B21100166-001A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1010 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.59r | MARKER_1004HP559r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.60r | MARKER_1004HP560r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.61r | CCV_1004HP561r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.62r | CCV_1004HP562r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.64r | B21100166-005A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.65r | B21100166-002A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.66r | B21100166-003A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-100466-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-100466-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.67r | B21100166-004A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.68r | B21100166-006A ;1004HP5 , $HC-8015-DRO-W, Need another RR possible carry over | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.69r | DCM-Baseline Check-V69 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.70r | B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR | G:\Org\HP5\Methods\D3_8015-100470-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-100470-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.71r | B21100166-007A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.72r | MARKER_1004HP572r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.73r | MARKER_1004HP573r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.74r | CCV_1004HP574r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.75r | CCV_1004HP575r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.76r | DCM-Baseline Check-V76 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.78r | B21100166-008A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.79r | B21100166-001AMS ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 510 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.80r | B21100166-001AMSD ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 510 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.81r | B21100166-002AMS-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.82r | B21100166-002AMSD-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.83r | DCM-Baseline Check-V83 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.84r | LCS-159988-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.85r | MARKER_1004HP5985r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.86r | MARKER_1004HP586r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.87r | CCV_1004HP587r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.88r | CCV_1004HP588r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\org\HP5\DAT\HP5100421_b\1004HP5.0045.RAW
MARKER_1004HP545r, DRO C40 ;1004HP5 , DRO210708A
1.31 c-5
2.25 c-6
3.91 c-7
5.29 c-8
6.33 c-9
7.21 c-10
8.00 c-11
8.73 c-12
9.40 c-13
10.03 c-14
10.63 c-15
11.20 c-16
11.74 c-17
12.25 c-18
12.73 c-19
13.20 c-20
13.64 c-21
14.06 c-22
14.46 c-23
14.84 c-24
15.21 c-25
15.56 c-26
15.90 c-27
16.23 c-28
16.55 c-29
16.85 c-30
17.46 c-32
18.23 c-34
19.28 c-36
20.74 c-38
22.83 c-40
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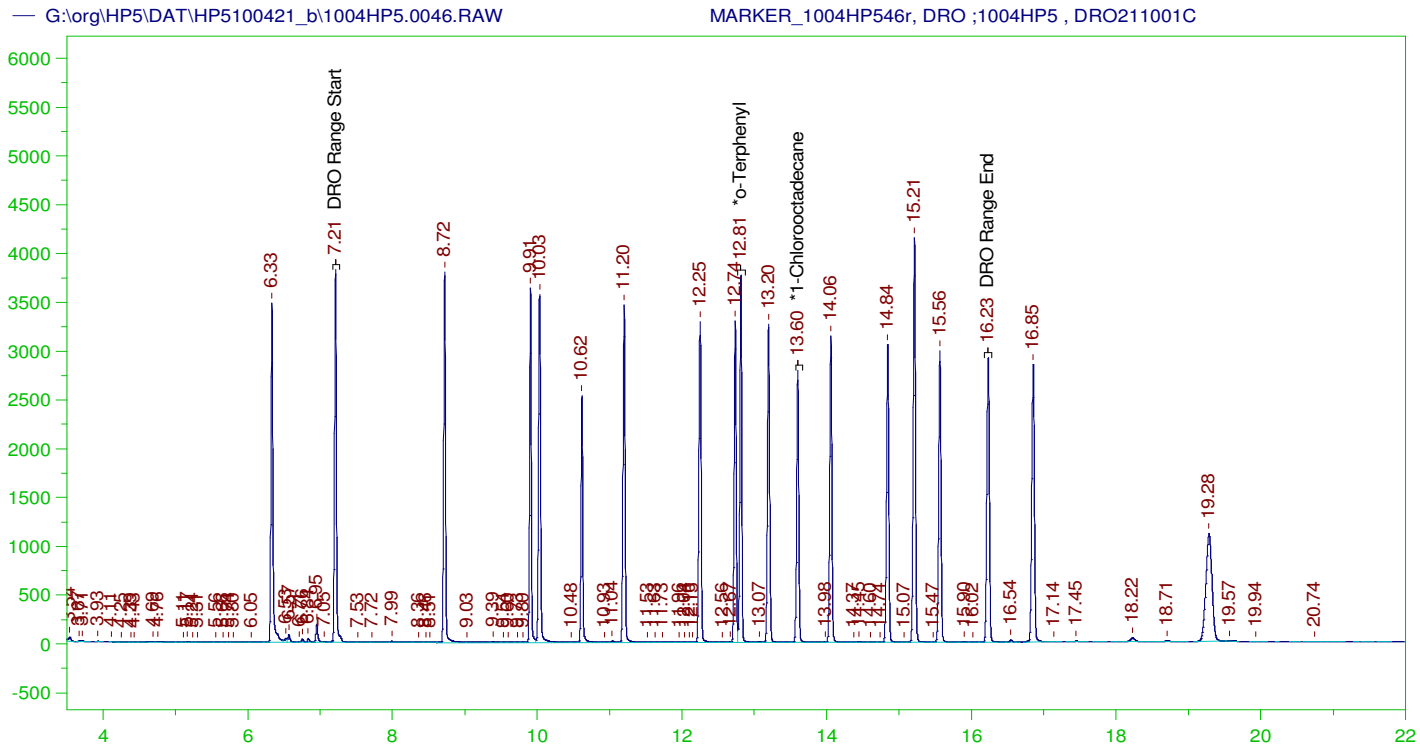



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

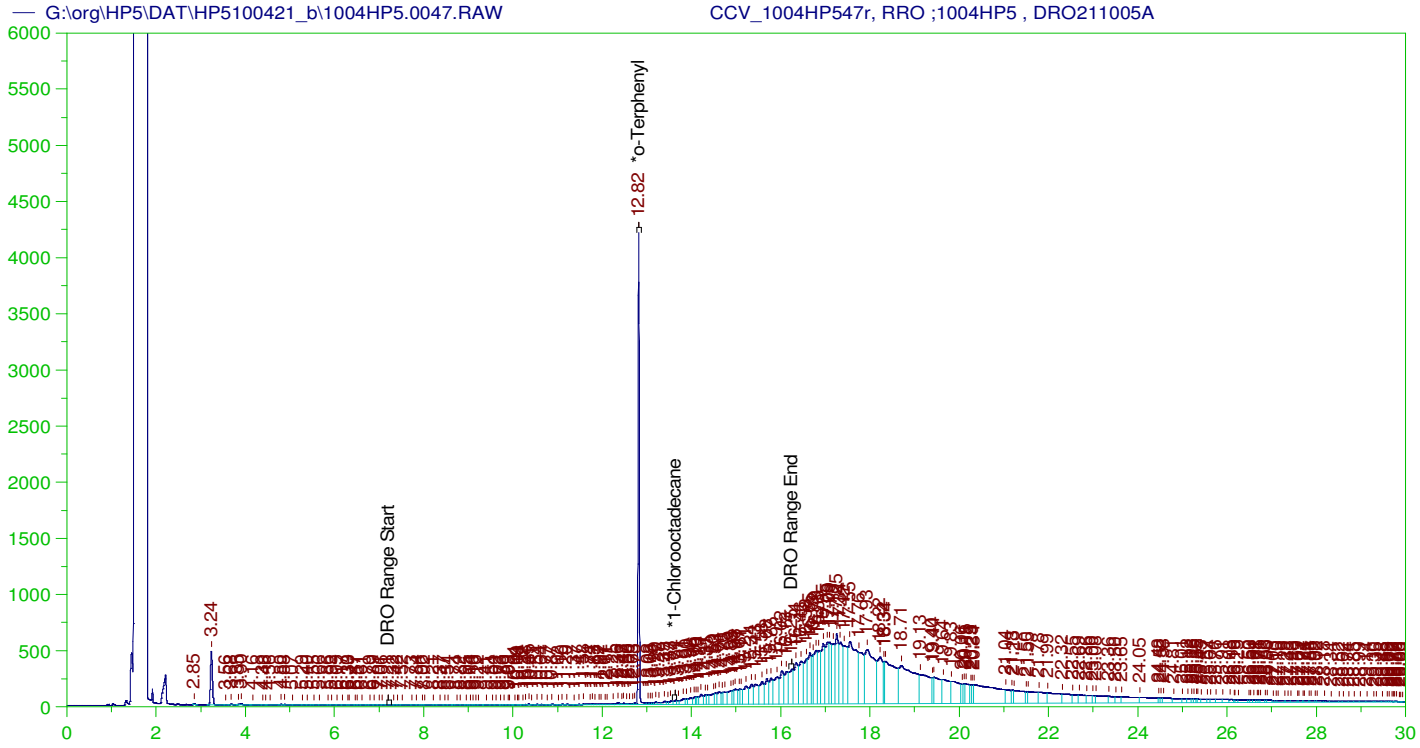
Sample Name: MARKER_1004HP546r, DRO ;1004HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0046.RAW
Date & Time Acquired: 10/5/2021 8:19:33 PM
Method File: G:\Org\HP5\Methods\DC_8015-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.814 | .2 | .208 | 103.88 | - |
| *1-Chlorooctadecane | 13.6 | .2 | .168 | 83.96 | - |

DRO Area:9.470563E+07 DRO Amount: 3.21501
TEH Area:1.184075E+08 TEH Amount: 4.019629

G:\org\HP5\dat\HP5100421_b\Review\046_MARKER_1004HP546r_DC_8015-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP547r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0047.RAW
Date & Time Acquired: 10/5/2021 9:07:07 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AHb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.815 | 200. | 234.746 | 117.37 | - |
| *1-Chlorooctadecane | 13.637 | 200. | 4.641 | 2.32 | - |

DRO Area:2.332686E+07 DRO Amount: 817.2701
TEH (Oil Range)Area:1.369789E+08 TEH (Oil Range)Amount: 4799.137

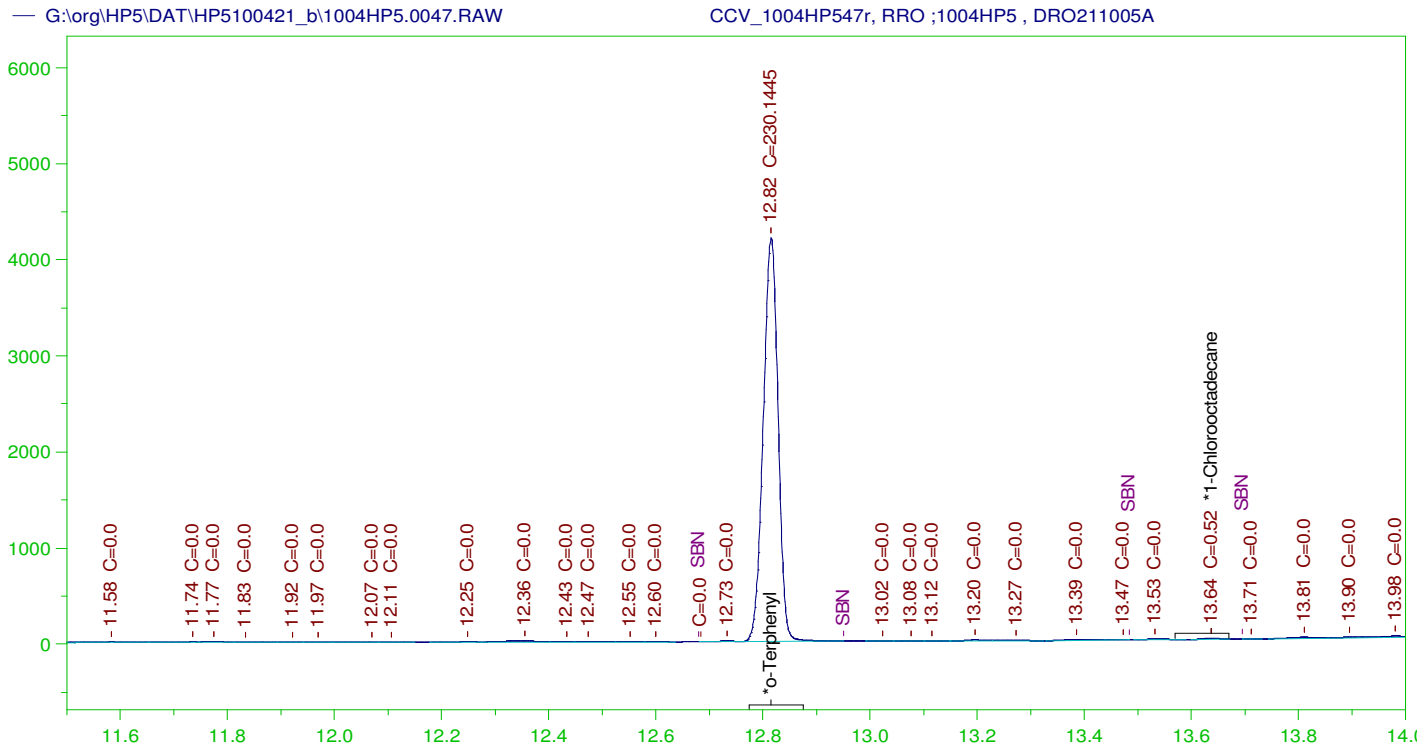
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0047.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4799.14 | 95.98 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.815 | 200. | 234.746 | 117.37 | 85-115 |
| *1-Chlorooctadecane | 13.637 | 200. | 4.641 | 2.32 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\047_CCV_1004HP547r_DC_OIL-AHb-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP547r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0047.RAW
Date & Time Acquired: 10/5/2021 9:07:07 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.815 | 200. | 230.145 | 115.07 | - |
| *1-Chlorooctadecane | 13.637 | 200. | .52 | .26 | - |

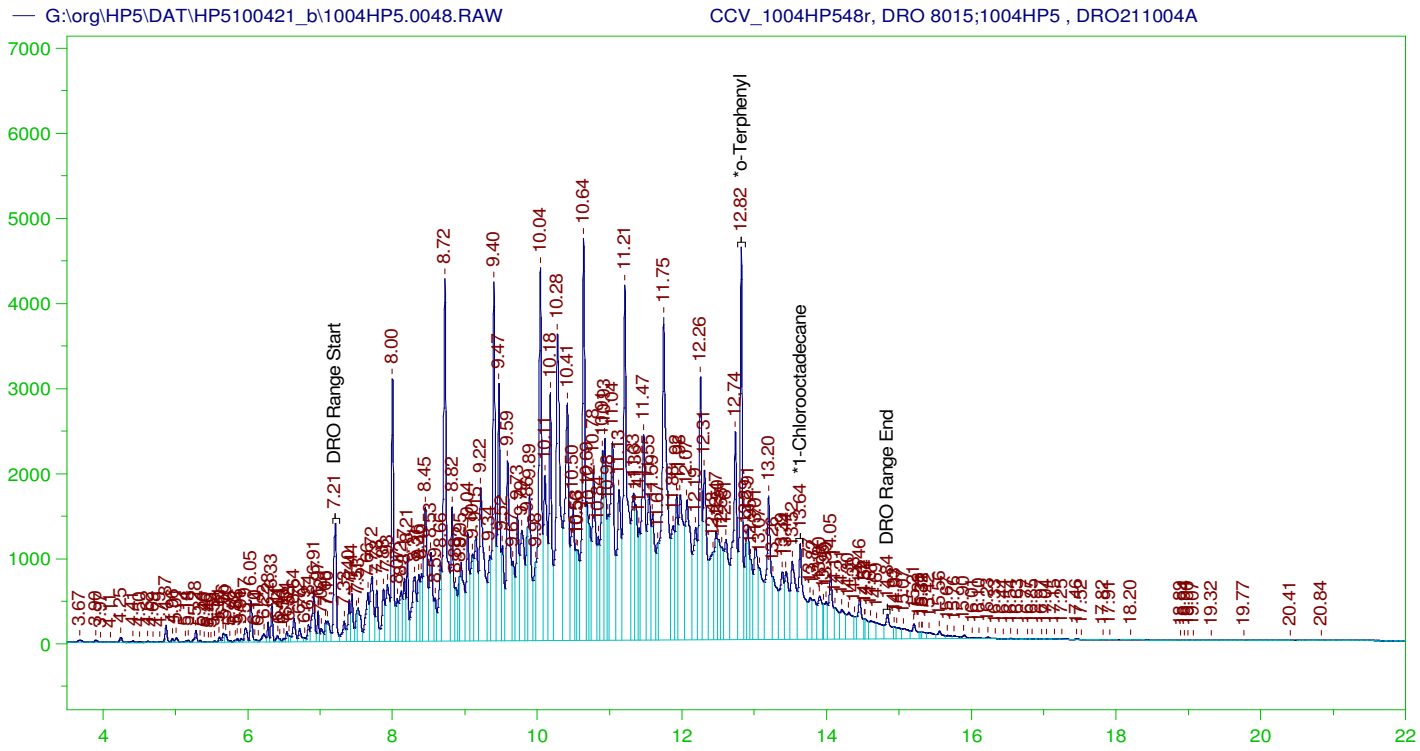
DRO Area:1640376 DRO Amount: 57.47154
TEH Area:3419696 TEH Amount: 119.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0047.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 119.81 | 2.4 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.815 | 200. | 230.145 | 115.07 | 85-115 |
| *1-Chlorooctadecane | 13.637 | 200. | .52 | .26 | 85-115 |

G:\org\HP5\dat\HP5100421_b\Review\Og\047_CCV_1004HP547r_DS_OIL-AHb-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP548r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0048.RAW
Date & Time Acquired: 10/5/2021 9:58:41 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.819 | 200. | 330.207 | 165.1 | - |
| *1-Chlorooctadecane | 13.635 | 200. | 159.853 | 79.93 | - |

DRO (C10-C24)Area:4.683372E+08 DRO (C10-C24)Amount: 15898.83
TEH Area:4.843938E+08 TEH Amount: 16443.91

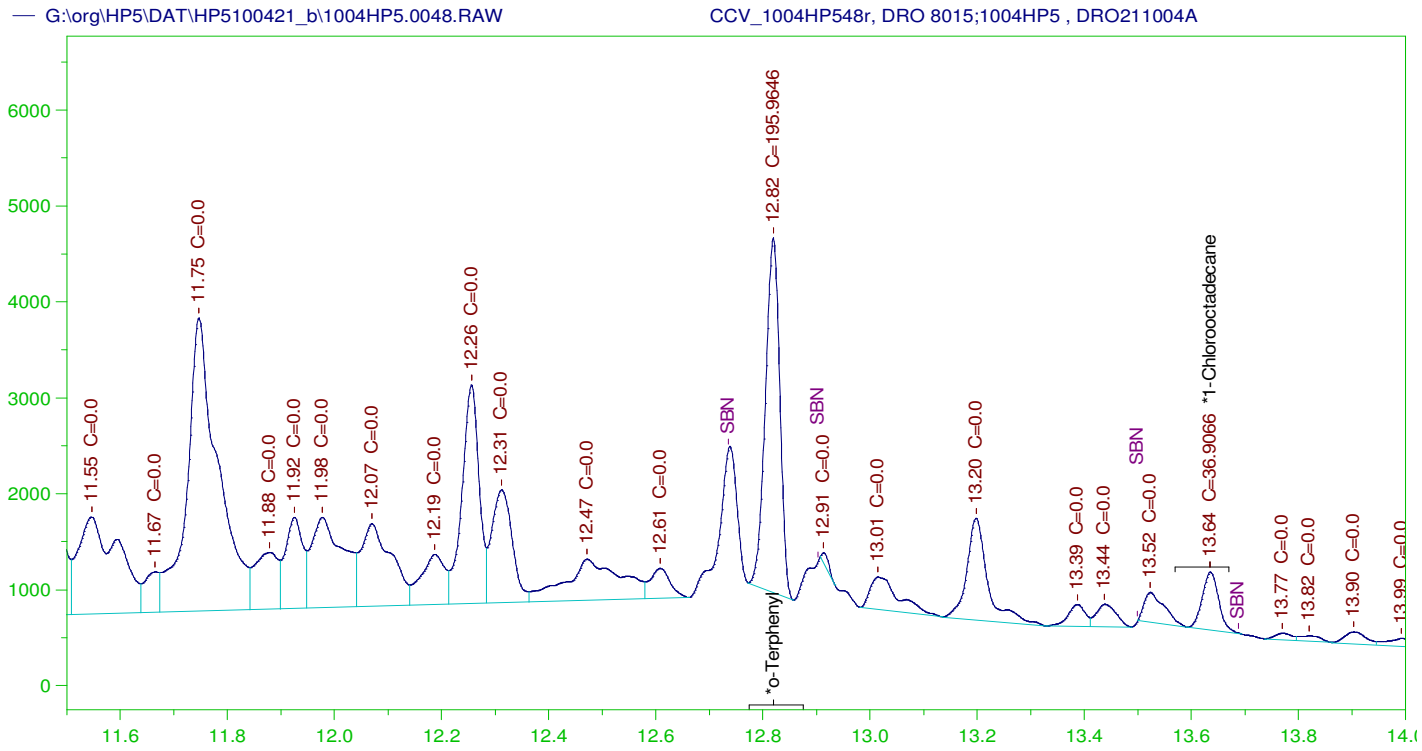
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0048.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16443.91 | 109.63 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.819 | 200. | 330.207 | 165.1 | 85-115 |
| *1-Chlorooctadecane | 13.635 | 200. | 159.853 | 79.93 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\048_CCV_1004HP548r_DC_8015-C24-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP548r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0048.RAW
Date & Time Acquired: 10/5/2021 9:58:41 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.819 | 200. | 195.965 | 97.98 | - |
| *1-Chlorooctadecane | 13.635 | 200. | 36.907 | 18.45 | - |

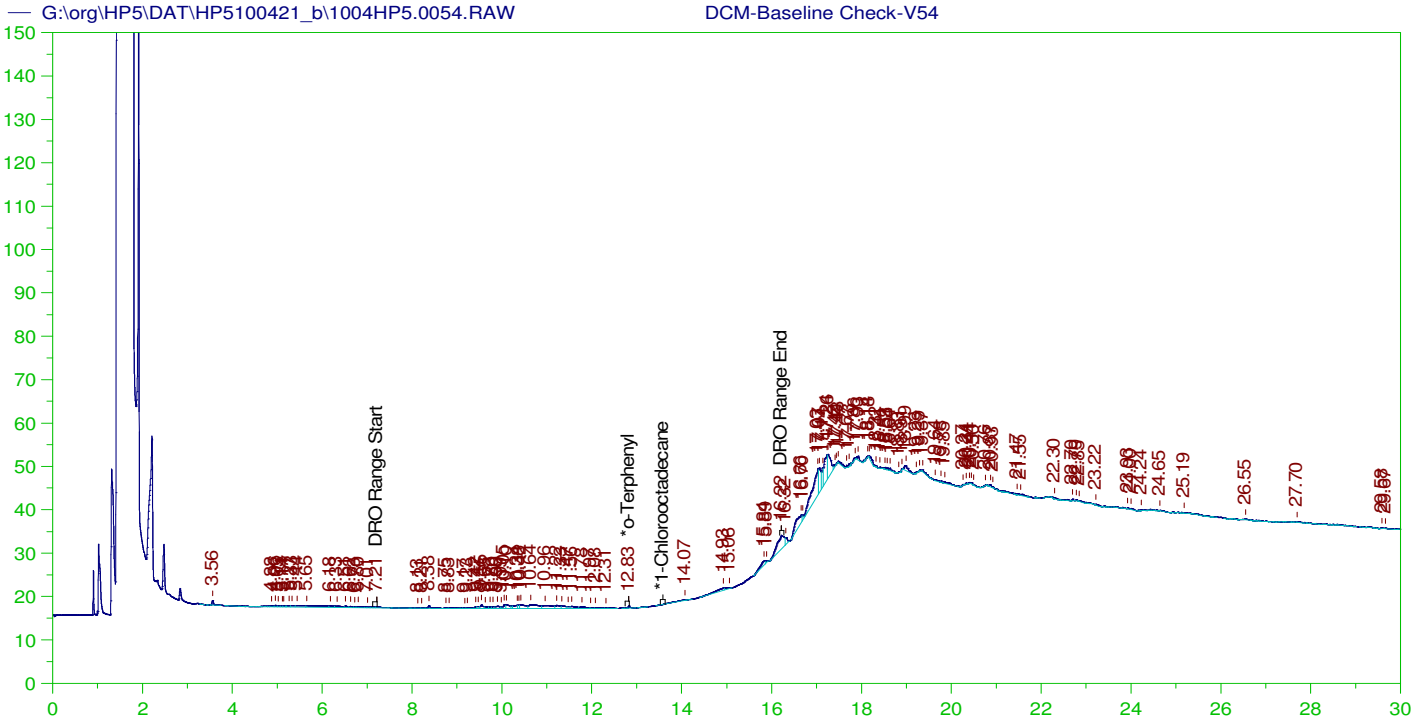
DRO Area:2.59154E+08 DRO Amount: 8797.606
TEH Area:2.694279E+08 TEH Amount: 9146.38

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0048.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9146.38 | 60.98 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.819 | 200. | 195.965 | 97.98 | 85-115 |
| *1-Chlorooctadecane | 13.635 | 200. | 36.907 | 18.45 | 85-115 |

G:\org\HP5\dat\HP5100421_b\Review\Og\048_CCV_1004HP548r_DS_8015-HPa-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V54
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0054.RAW
Date & Time Acquired: 10/6/2021 3:09:48 AM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

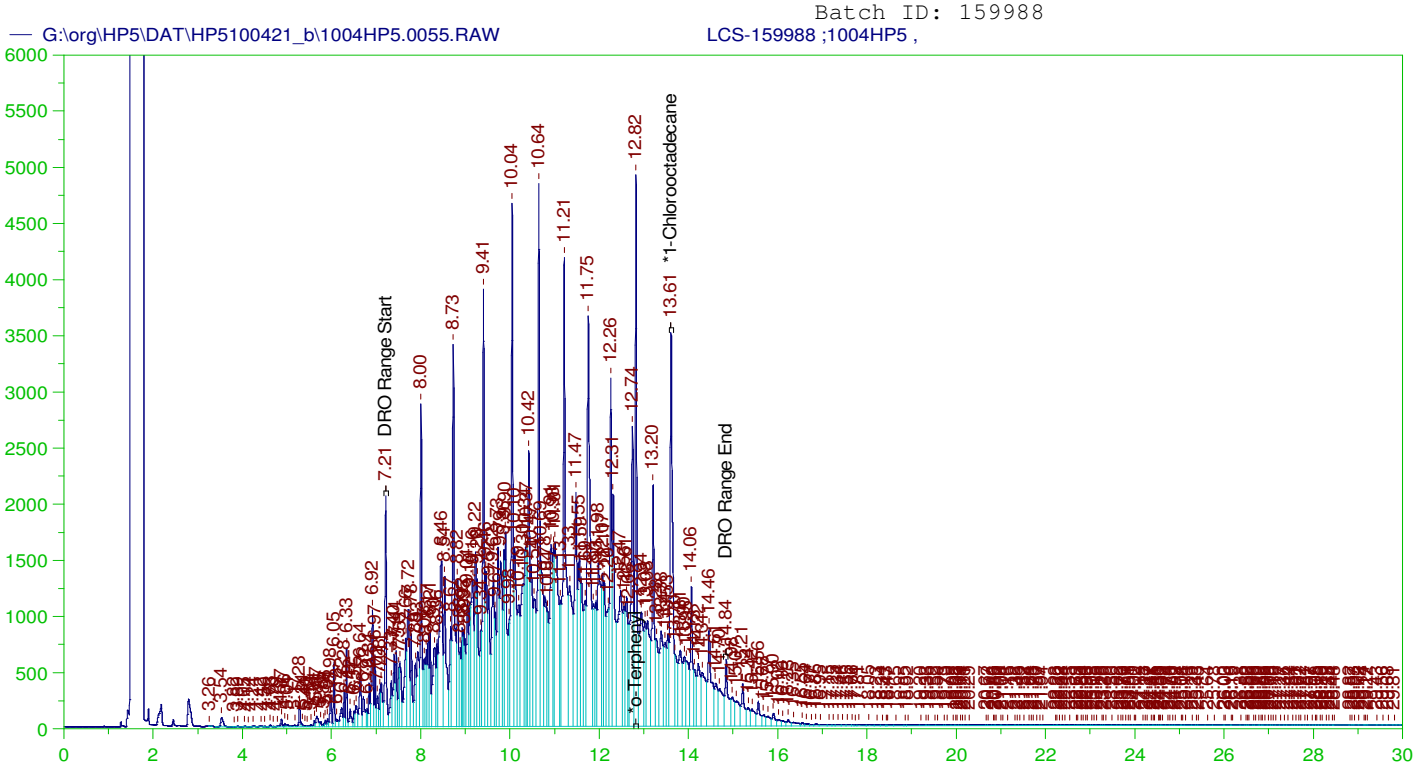
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.12 to 16.28

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.825 | 200. | .046 | .02 | - |
| *1-Chlorooctadecane | 29.944 | 200. | . | . | - |

DRO Area:150881.7 DRO Amount: 5.122041
TEH Area:451239.8 TEH Amount: 15.31842

G:\org\HP5\dat\HP5100421_b\Review\Og\054_DCM-Baseline Chec_DR_8015-HP-LEXP.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988 ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0055.RAW
Date & Time Acquired: 10/6/2021 4:00:45 AM
Method File: G:\Org\HP5\Methods\D3_8015-10045-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.822 | .2 | .369 | 184.27 | - |
| *1-Chlorooctadecane | 13.607 | .2 | .381 | 190.34 | - |

DRO (C10-C24)Area:4.567659E+08 DRO (C10-C24)Amount: 15.50602
TEH Area:4.90601E+08 TEH Amount: 16.65463

AMN 10/17/2021

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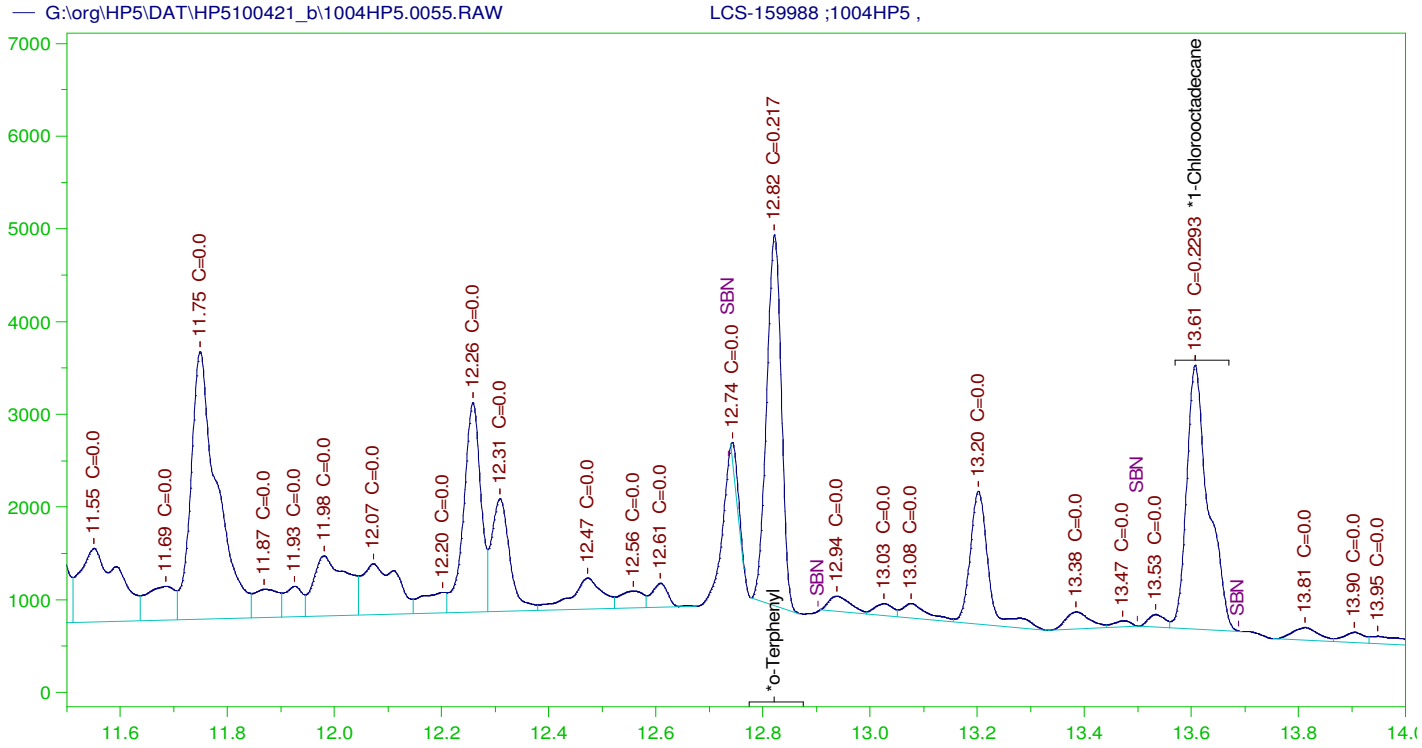
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988 ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0055.RAW
Date & Time Acquired: 10/6/2021 4:00:45 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

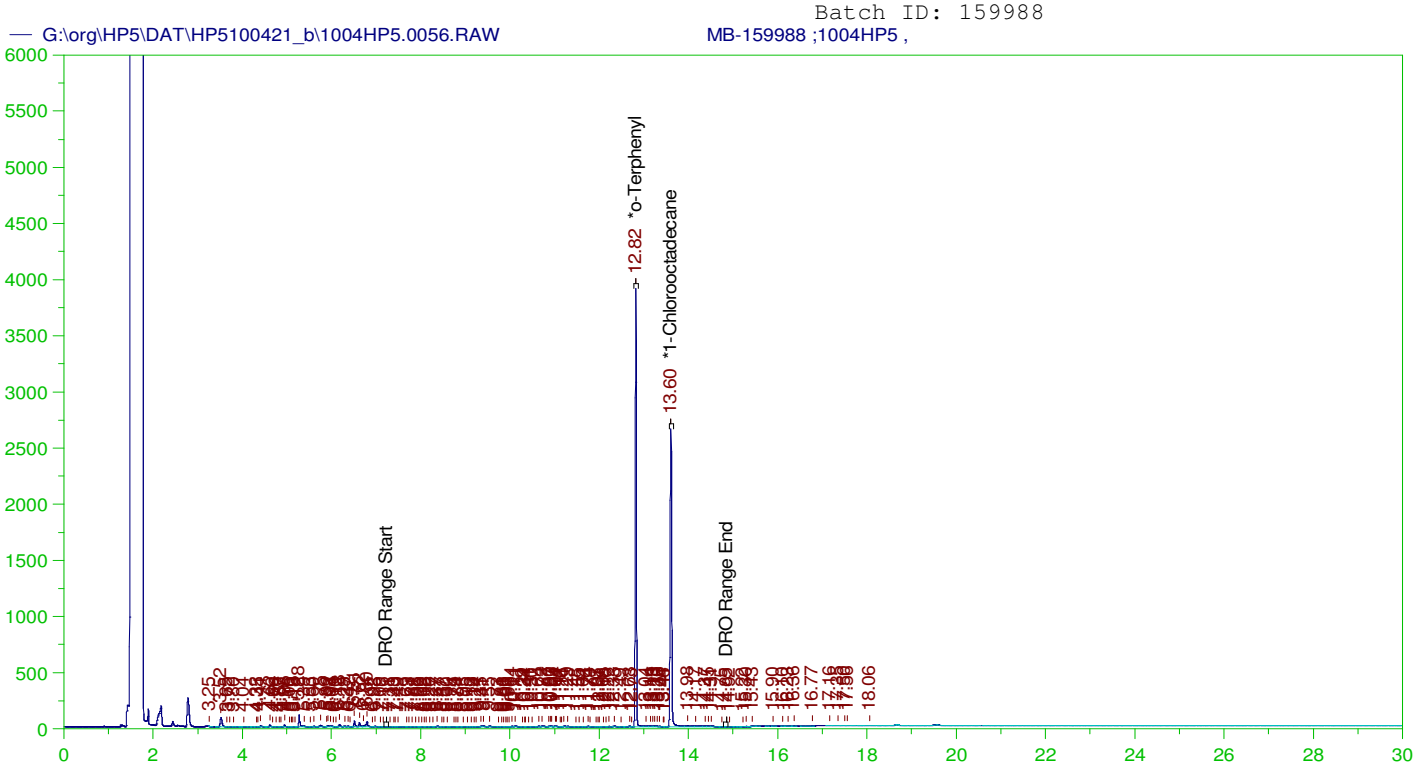
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.822 | .2 | .217 | 108.51 | - |
| *1-Chlorooctadecane | 13.607 | .2 | .229 | 114.65 | - |

DRO Area:2.24822E+08 DRO Amount: 7.632123
TEH Area:2.410222E+08 TEH Amount: 8.182077

G:\org\HP5\dat\HP5100421_b\Review\Og\055_LCS-159988_DS_8015-HPa-L#.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-159988 ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0056.RAW
Date & Time Acquired: 10/6/2021 4:52:25 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

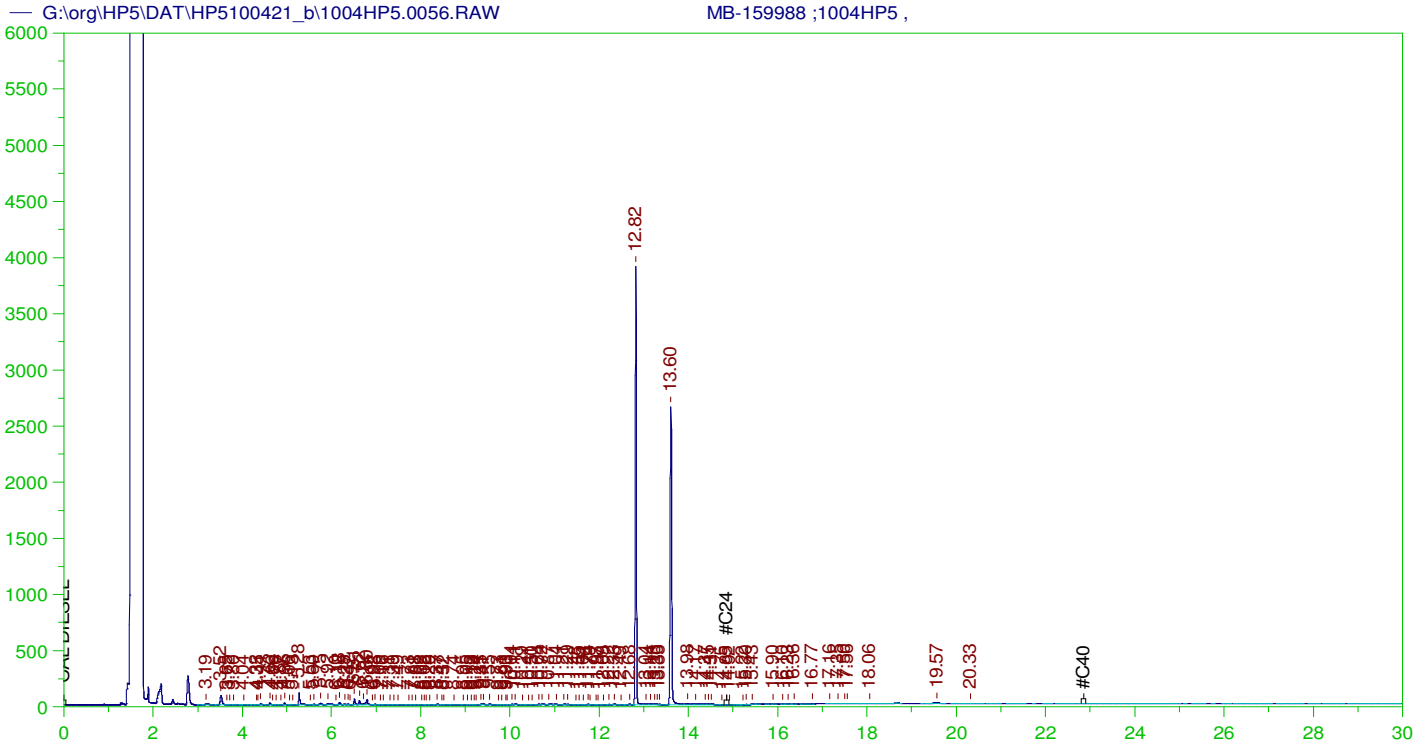
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.818 | .2 | .211 | 105.53 | - |
| *1-Chlorooctadecane | 13.604 | .2 | .165 | 82.74 | - |

DRO (C10-C24)Area:507113.5 DRO (C10-C24)Amount: 1.721519E-02
TEH Area:1637478 TEH Amount: 5.558813E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\056_MB-159988_DR_8015-C24-HPa-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-159988 ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0056.RAW
Date & Time Acquired: 10/6/2021 4:52:25 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

SURROGATE COMPOUND RT ACTUAL MEASURED %REC

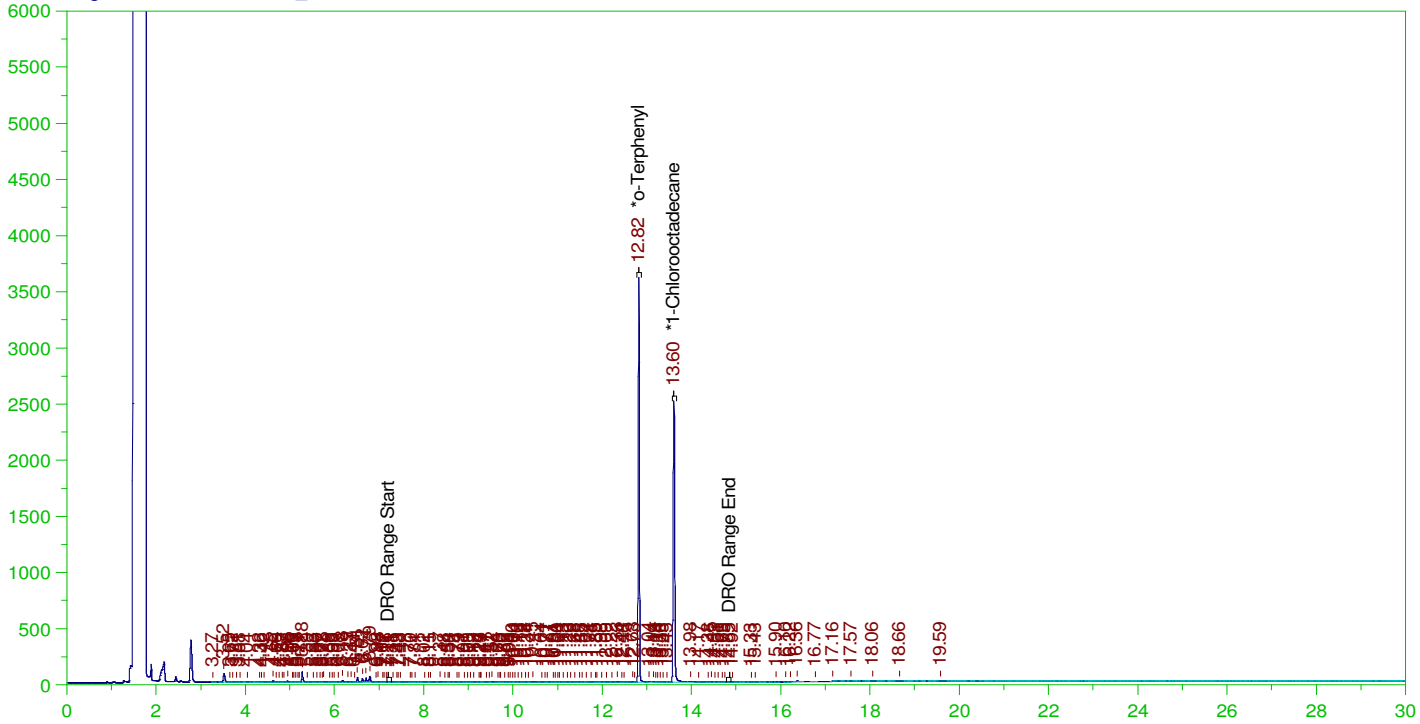
~~RRO~~ Oil Range(C24-C40)Area:35967.32 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 1.260136E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\056_MB-159988_DR_OIL-S-AHb-L%.xls

**ERH1776 (RHSF, Pre-chlorination)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0057.RAW B21100171-001A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100171-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0057.RAW
Date & Time Acquired: 10/6/2021 5:44:36 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

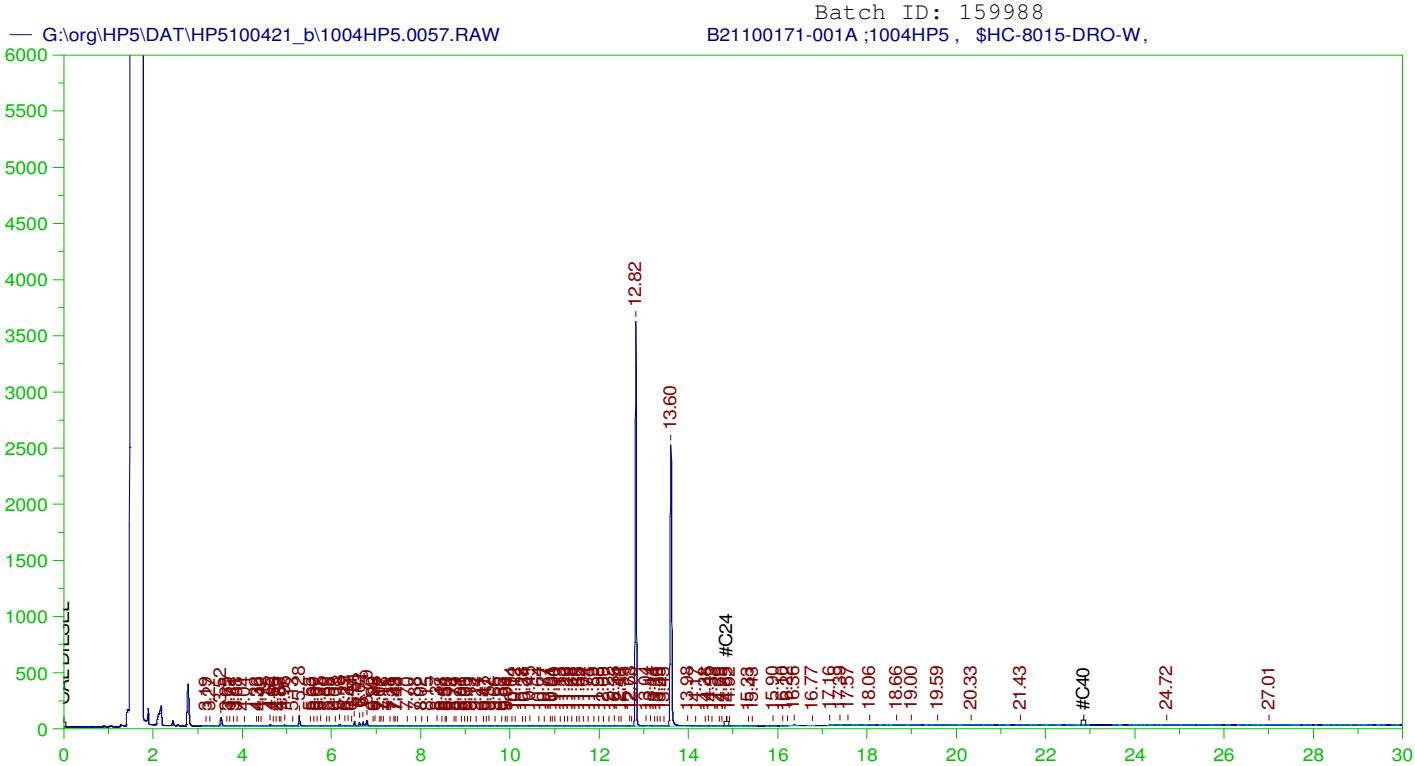
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.818 | .189 | .186 | 98.71 | - |
| *1-Chlorooctadecane | 13.605 | .189 | .148 | 78.66 | - |

DRO (C10-C24)Area:475269.2 DRO (C10-C24)Amount: 0.0152209
TEH Area:1594824 TEH Amount: 0.0510756

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\057_B21100171-001A_DR_8015-C24-HPa-L%.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100171-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0057.RAW
Date & Time Acquired: 10/6/2021 5:44:36 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

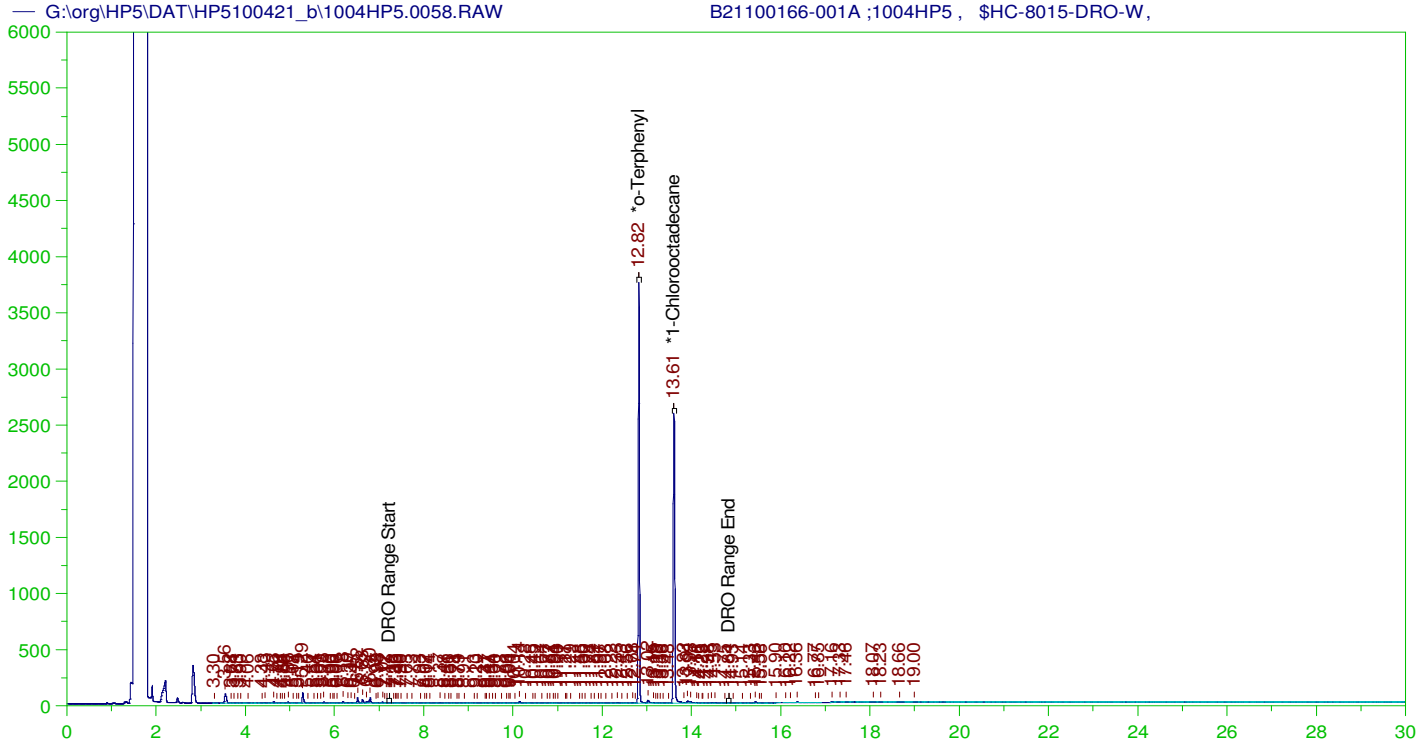
~~RRO~~ Oil Range(C24-C40)Area:58592.96 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 1.93664E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\057_B21100171-001A_DR_OIL-S-AHb-L%.xls

**ERH1764 (RHMW08)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0058.RAW B21100166-001A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0058.RAW
Date & Time Acquired: 10/6/2021 6:32:39 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

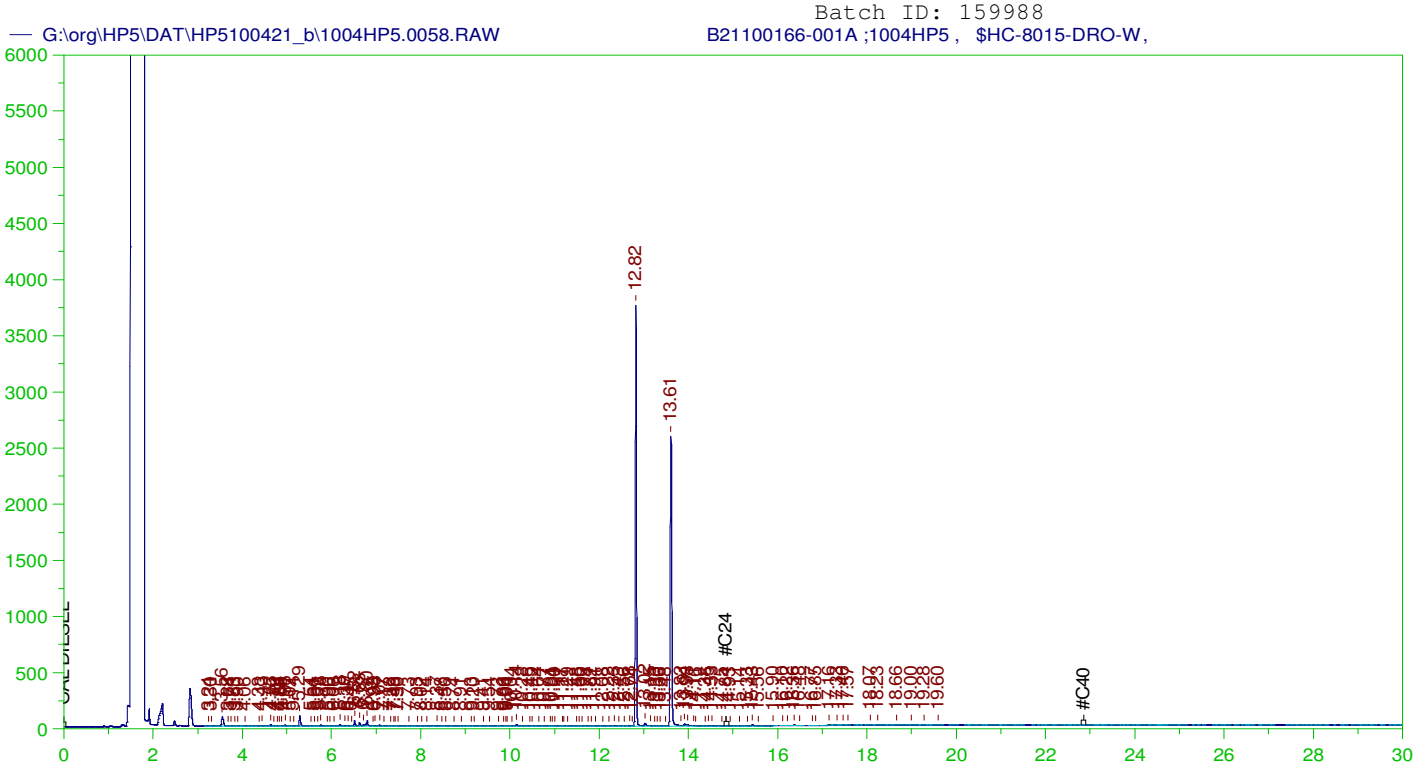
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.82 | .198 | .202 | 102.01 | - |
| *1-Chlorooctadecane | 13.606 | .198 | .16 | 80.56 | - |

DRO (C10-C24)Area:622668.8 DRO (C10-C24)Amount: 0.0209287
TEH Area:1804583 TEH Amount: 6.065436E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\058_B21100166-001A_DR_8015-C24-HPa-L%.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-001A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0058.RAW
Date & Time Acquired: 10/6/2021 6:32:39 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:95442.28 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 3.310768E-03

AMN 10/17/2021

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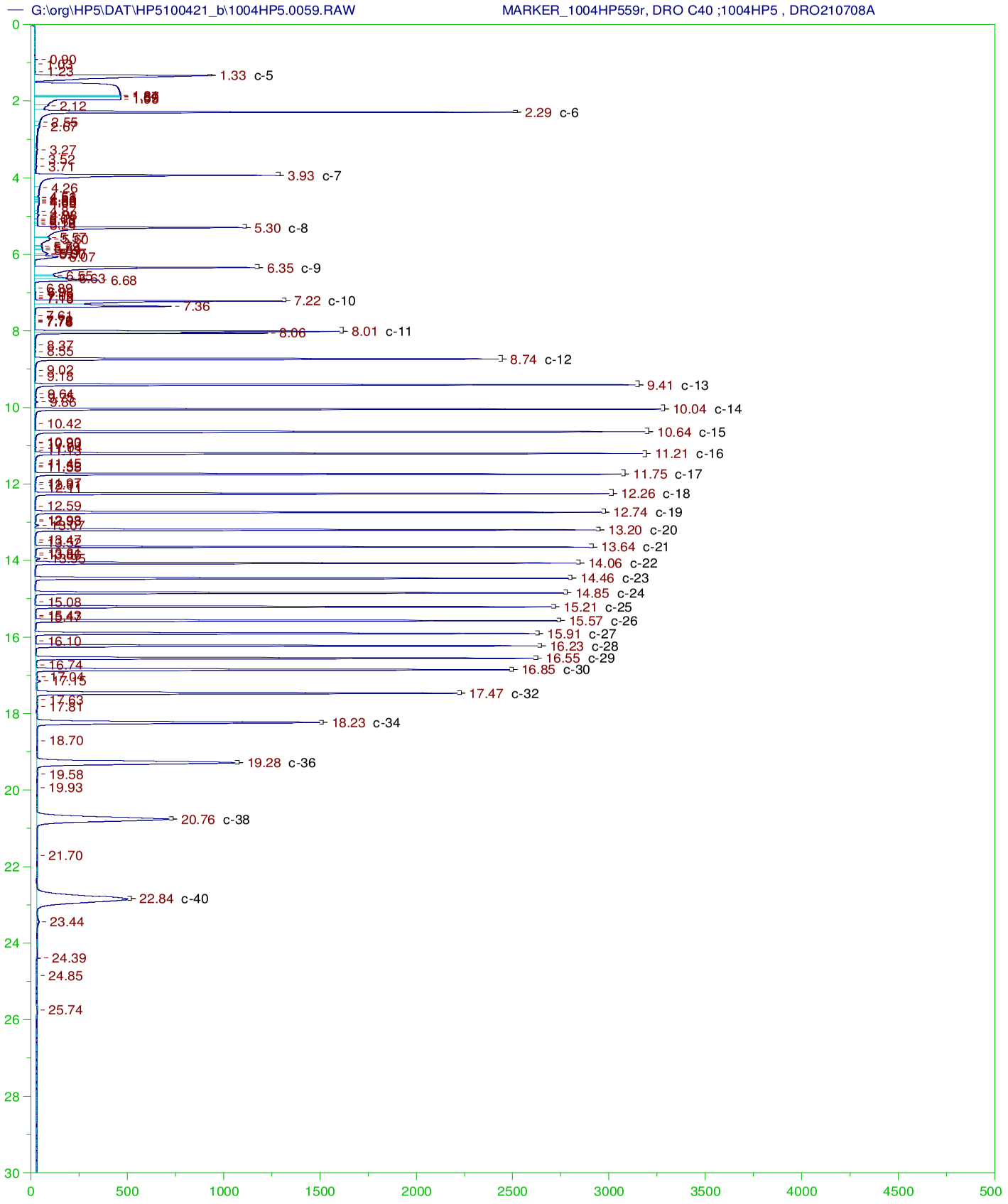
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MARKER_1004HP559r, DRO C40 ;1004HP5 , DRO210708A
1.33 c-5
2.29 c-6
3.93 c-7
5.30 c-8
6.35 c-9
6.68
7.22 c-10
7.36
8.01 c-11
8.74 c-12
9.41 c-13
10.04 c-14
10.64 c-15
11.21 c-16
11.75 c-17
12.26 c-18
12.74 c-19
13.20 c-20
13.64 c-21
14.06 c-22
14.46 c-23
14.85 c-24
15.21 c-25
15.57 c-26
15.91 c-27
16.23 c-28
16.55 c-29
16.85 c-30
17.47 c-32
18.23 c-34
19.28 c-36
20.76 c-38
22.84 c-40
23.44
24.39
24.85
25.74
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1500
2000
2500
3000
3500
4000
4500
500
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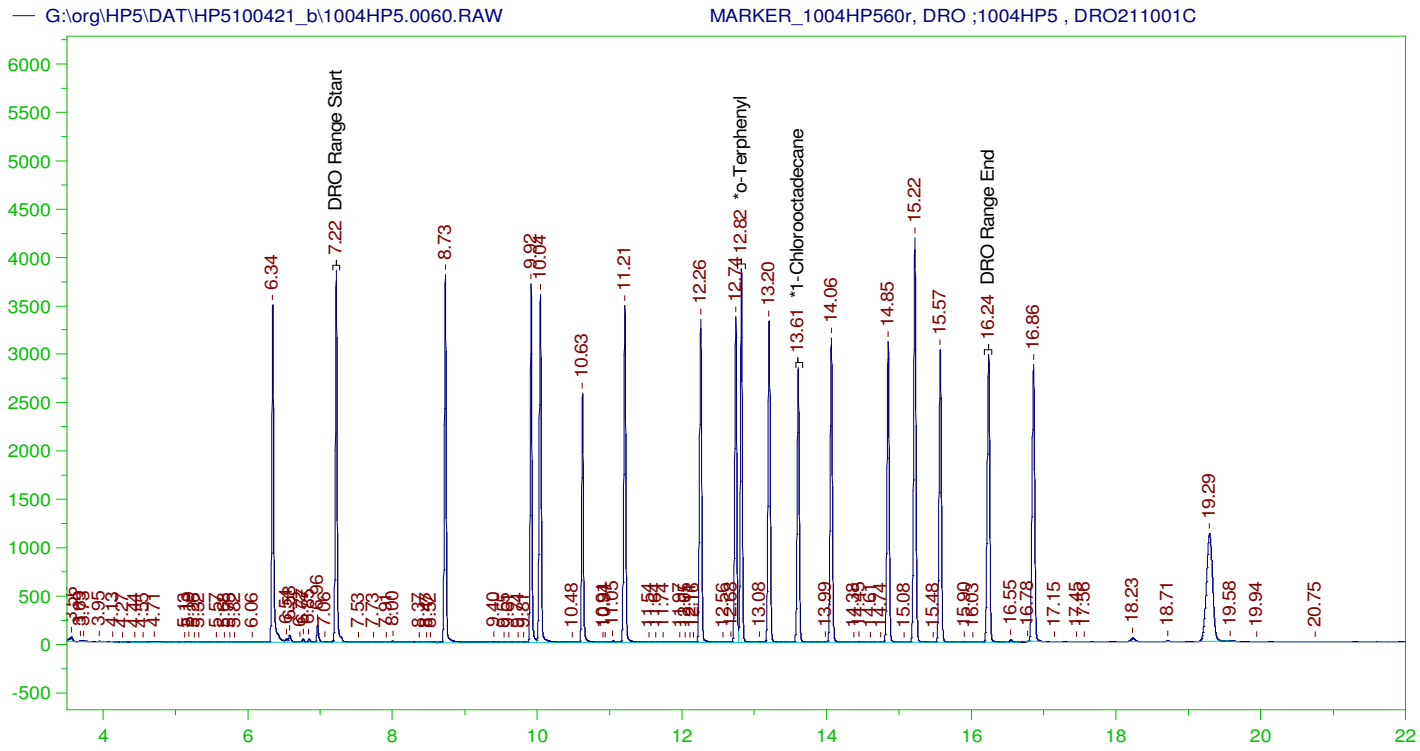



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

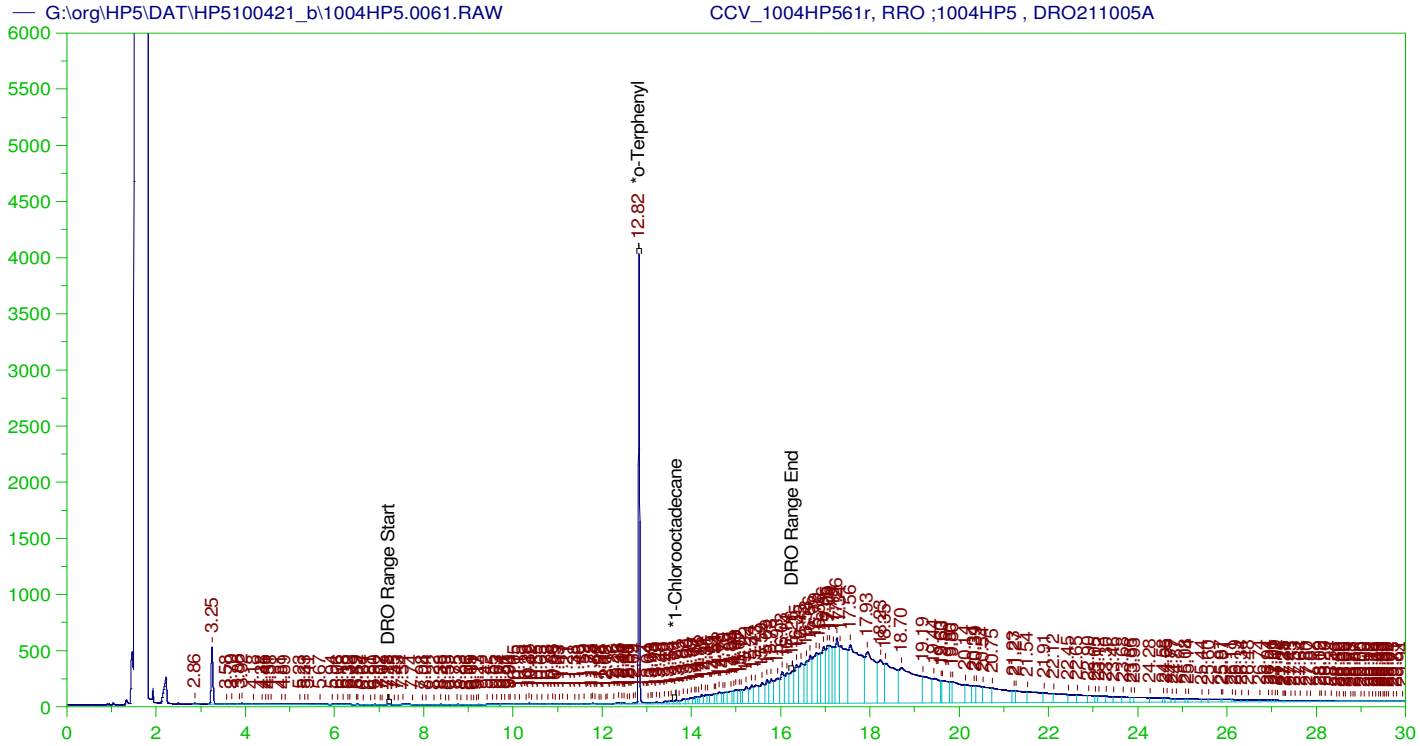
Sample Name: MARKER_1004HP560r, DRO ;1004HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0060.RAW
Date & Time Acquired: 10/6/2021 8:03:59 AM
Method File: G:\Org\HP5\Methods\DC_8015-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.822 | .2 | .211 | 105.4 | - |
| *1-Chlorooctadecane | 13.606 | .2 | .17 | 85.21 | - |

DRO Area:9.604197E+07 DRO Amount: 3.260376
TEH Area:1.223668E+08 TEH Amount: 4.154036

G:\org\HP5\dat\HP5100421_b\Review\Og\060_MARKER_1004HP560r_DC_8015-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP561r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0061.RAW
Date & Time Acquired: 10/6/2021 8:49:31 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AHb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | 200. | 221.577 | 110.79 | - |
| *1-Chlorooctadecane | 13.645 | 200. | 4.204 | 2.1 | - |

DRO Area:2.202561E+07 DRO Amount: 771.6802
TEH (Oil Range)Area:1.292376E+08 TEH (Oil Range)Amount: 4527.914

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0061.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4527.91 | 90.56 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | 200. | 221.577 | 110.79 | 85-115 |
| *1-Chlorooctadecane | 13.645 | 200. | 4.204 | 2.1 | 85-115 |

AMN 10/17/2021

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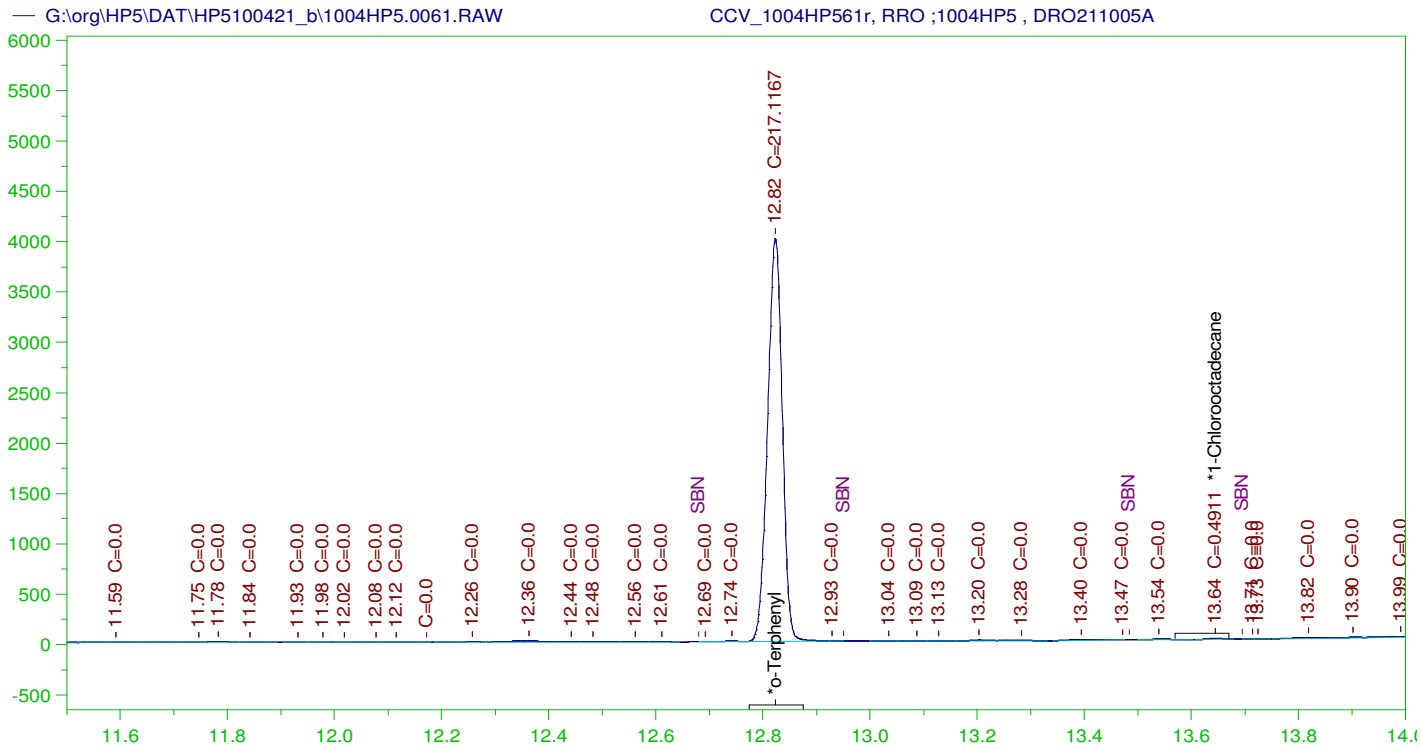


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP561r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0061.RAW
Date & Time Acquired: 10/6/2021 8:49:31 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | 200. | 217.117 | 108.56 | - |
| *1-Chlorooctadecane | 13.645 | 200. | .491 | .25 | - |

DRO Area:1503131 DRO Amount: 52.66306
TEH Area:3185798 TEH Amount: 111.6163

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0061.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 111.62 | 2.23 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | 200. | 217.117 | 108.56 | 85-115 |
| *1-Chlorooctadecane | 13.645 | 200. | .491 | .25 | 85-115 |

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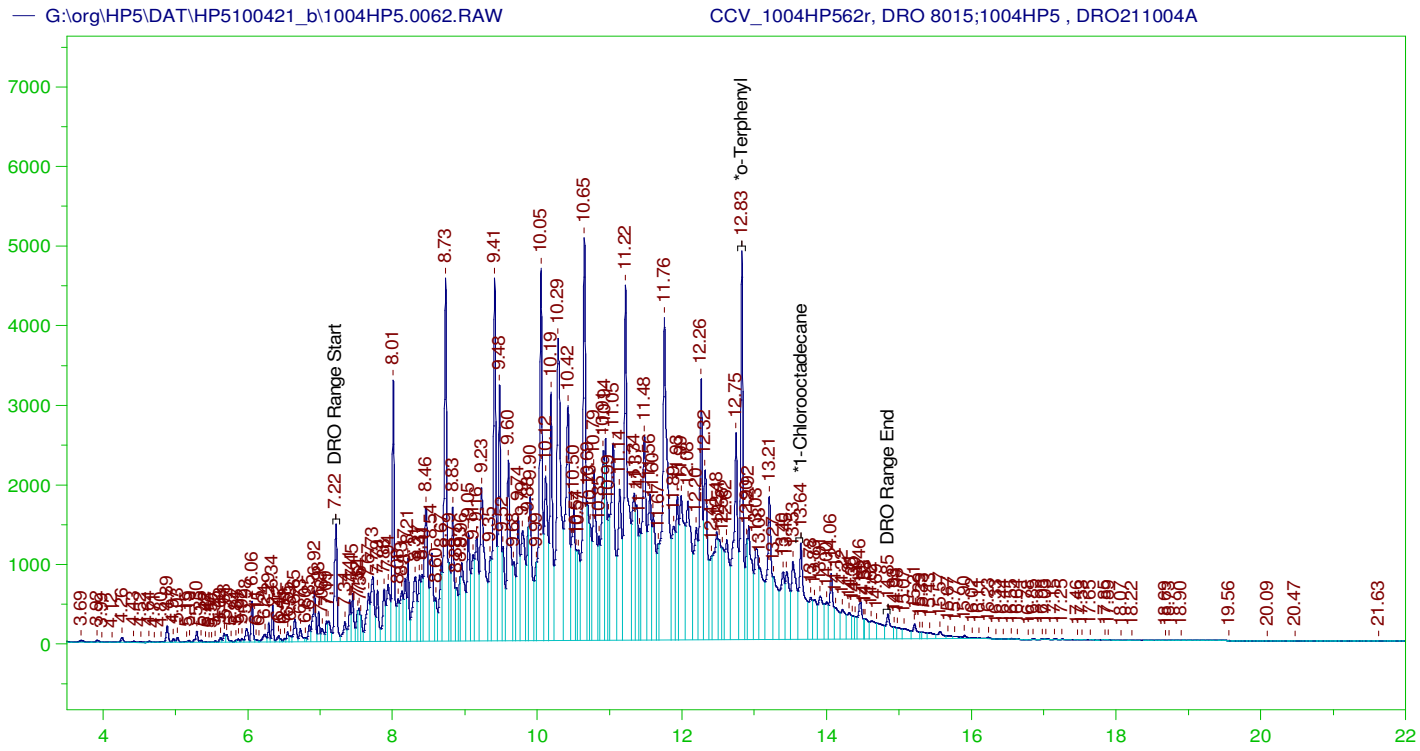



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP562r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0062.RAW
Date & Time Acquired: 10/6/2021 9:34:34 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | 200. | 352.637 | 176.32 | - |
| *1-Chlorooctadecane | 13.644 | 200. | 171.862 | 85.93 | - |

DRO (C10-C24)Area:5.003551E+08 DRO (C10-C24)Amount: 16985.76
TEH Area:5.174335E+08 TEH Amount: 17565.53

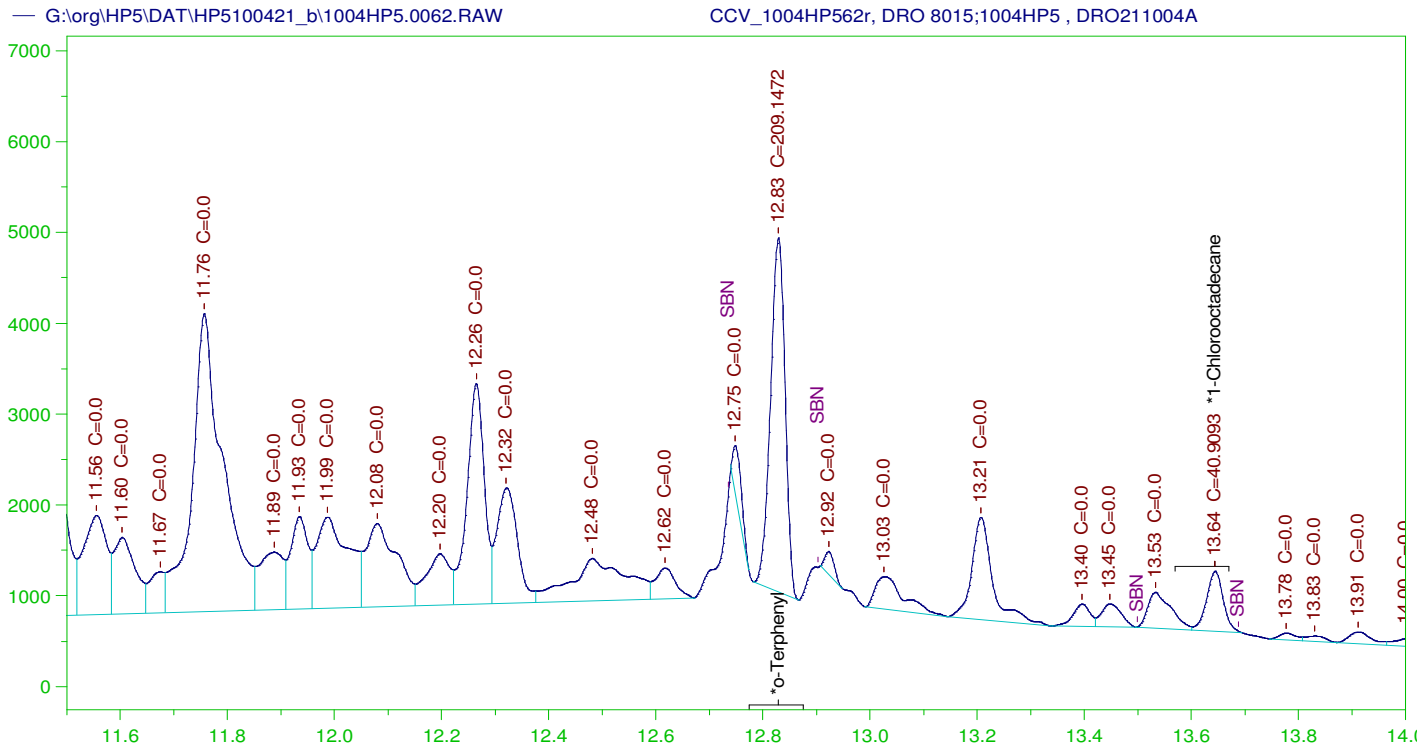
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0062.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 17565.53 | 117.1 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | 200. | 352.637 | 176.32 | 85-115 |
| *1-Chlorooctadecane | 13.644 | 200. | 171.862 | 85.93 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\062_CCV_1004HP562r_DC_8015-C24-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP562r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0062.RAW
Date & Time Acquired: 10/6/2021 9:34:34 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | 200. | 209.147 | 104.57 | - |
| *1-Chlorooctadecane | 13.644 | 200. | 40.909 | 20.45 | - |

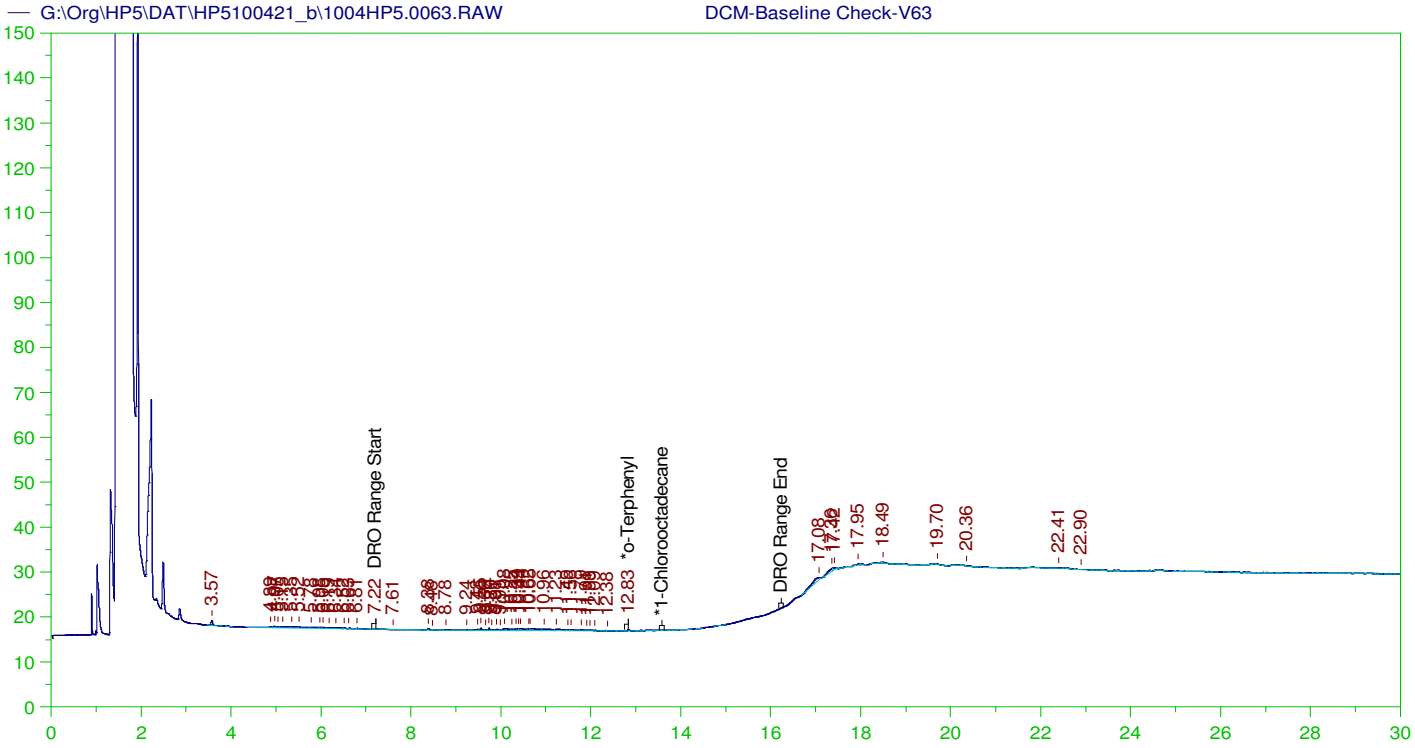
DRO Area:2.784648E+08 DRO Amount: 9453.158
TEH Area:2.892708E+08 TEH Amount: 9819.994

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0062.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9819.99 | 65.47 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | 200. | 209.147 | 104.57 | 85-115 |
| *1-Chlorooctadecane | 13.644 | 200. | 40.909 | 20.45 | 85-115 |

G:\org\HP5\dat\HP5100421_b\Review\Og\062_CCV_1004HP562r_DS_8015-HPa-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V63
Raw File: G:\Org\HP5\DAT\HP5100421_b\1004HP5.0063.RAW
Date & Time Acquired: 10/6/2021 10:20:50 AM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.125 to 16.28

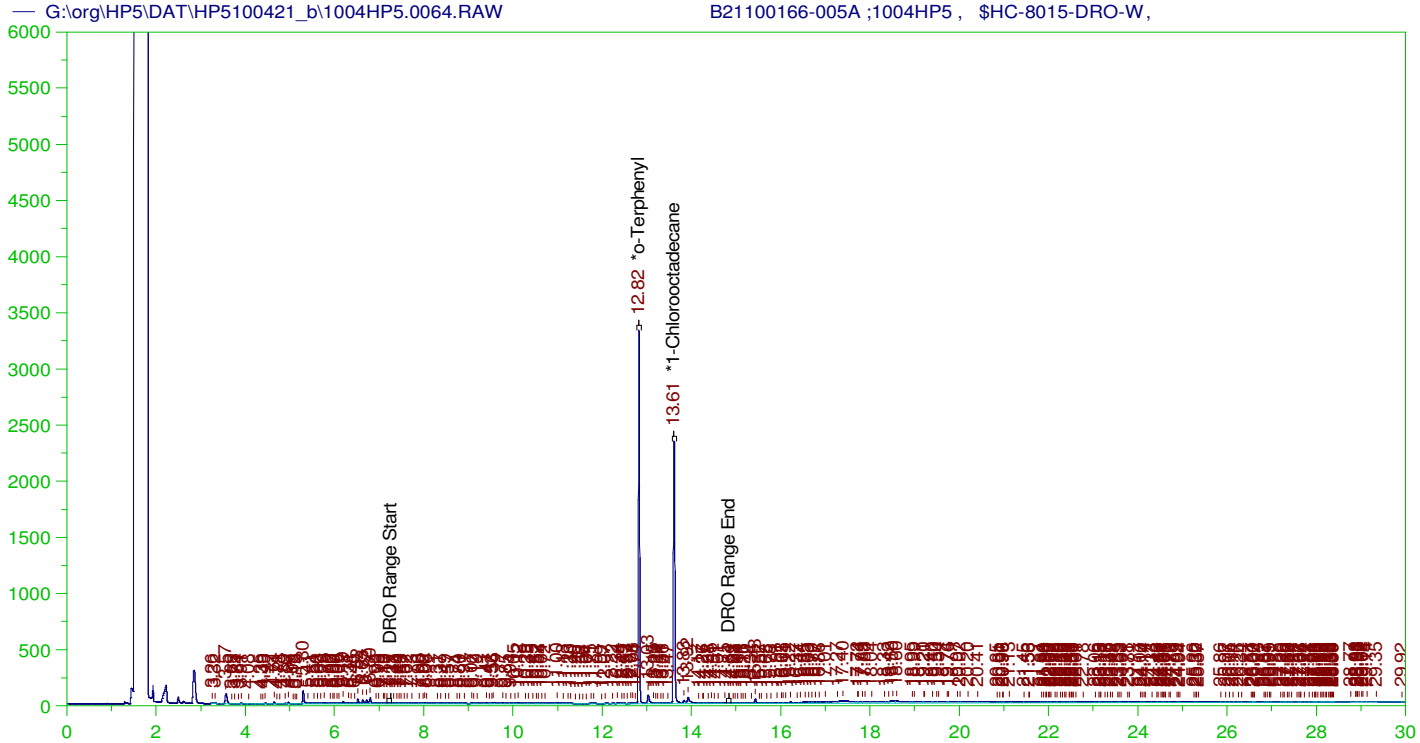
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | .04 | .02 | - |
| *1-Chlorooctadecane | 29.899 | 200. | . | . | - |

DRO Area:68368.34 DRO Amount: 2.320928
TEH Area:138693.9 TEH Amount: 4.708298

G:\org\HP5\dat\HP5100421_b\Review\063_DCM-Baseline Chec_DR_8015-HP-LEXP.xls

**ERH1762 (RHMW04)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW B21100166-005A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-005A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW
Date & Time Acquired: 10/6/2021 11:07:08 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .194 | .176 | 90.85 | - |
| *1-Chlorooctadecane | 13.608 | .194 | .14 | 71.97 | - |

DRO (C10-C24)Area:1440101 DRO (C10-C24)Amount: 4.746377E-02
TEH Area:8796204 TEH Amount: 0.289911

AMN 10/17/20201

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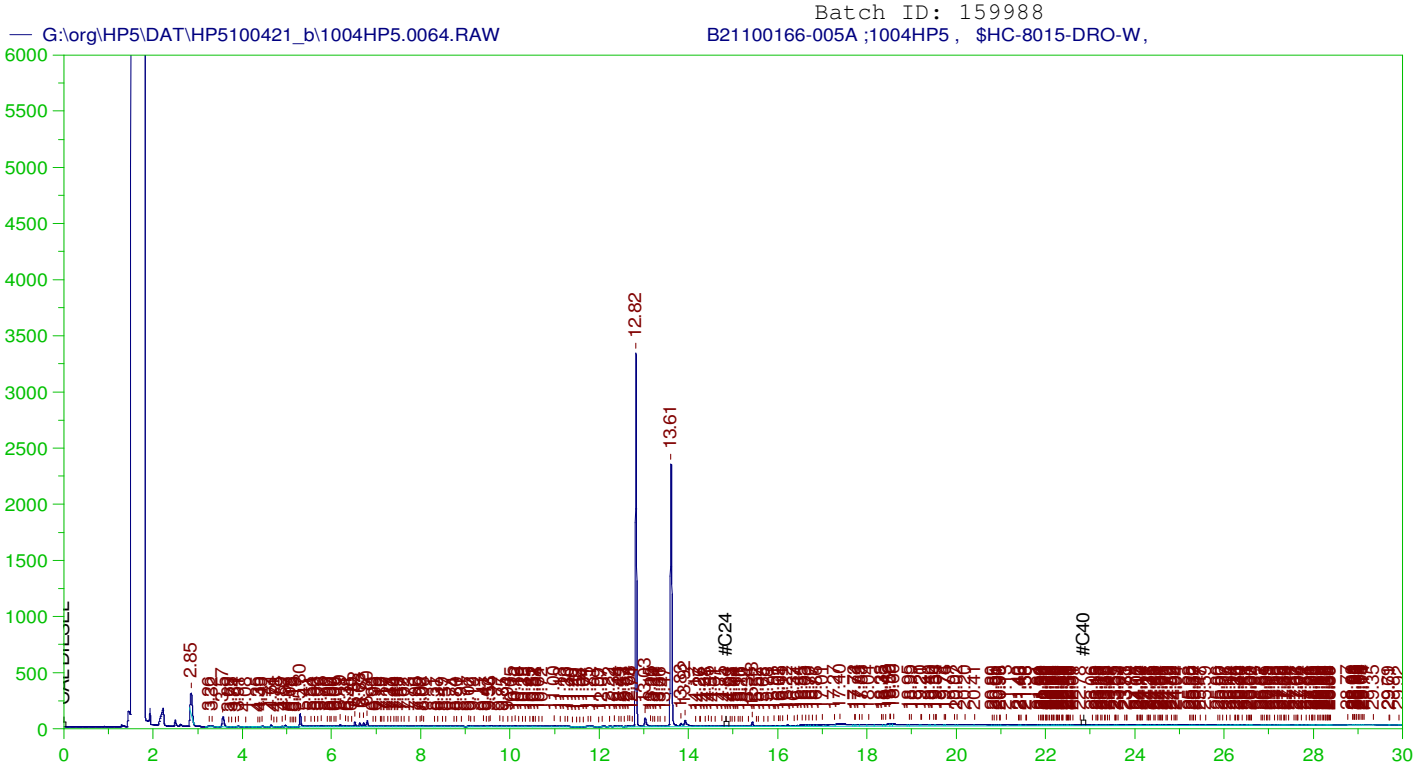
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-005A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW
Date & Time Acquired: 10/6/2021 11:07:08 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40)Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

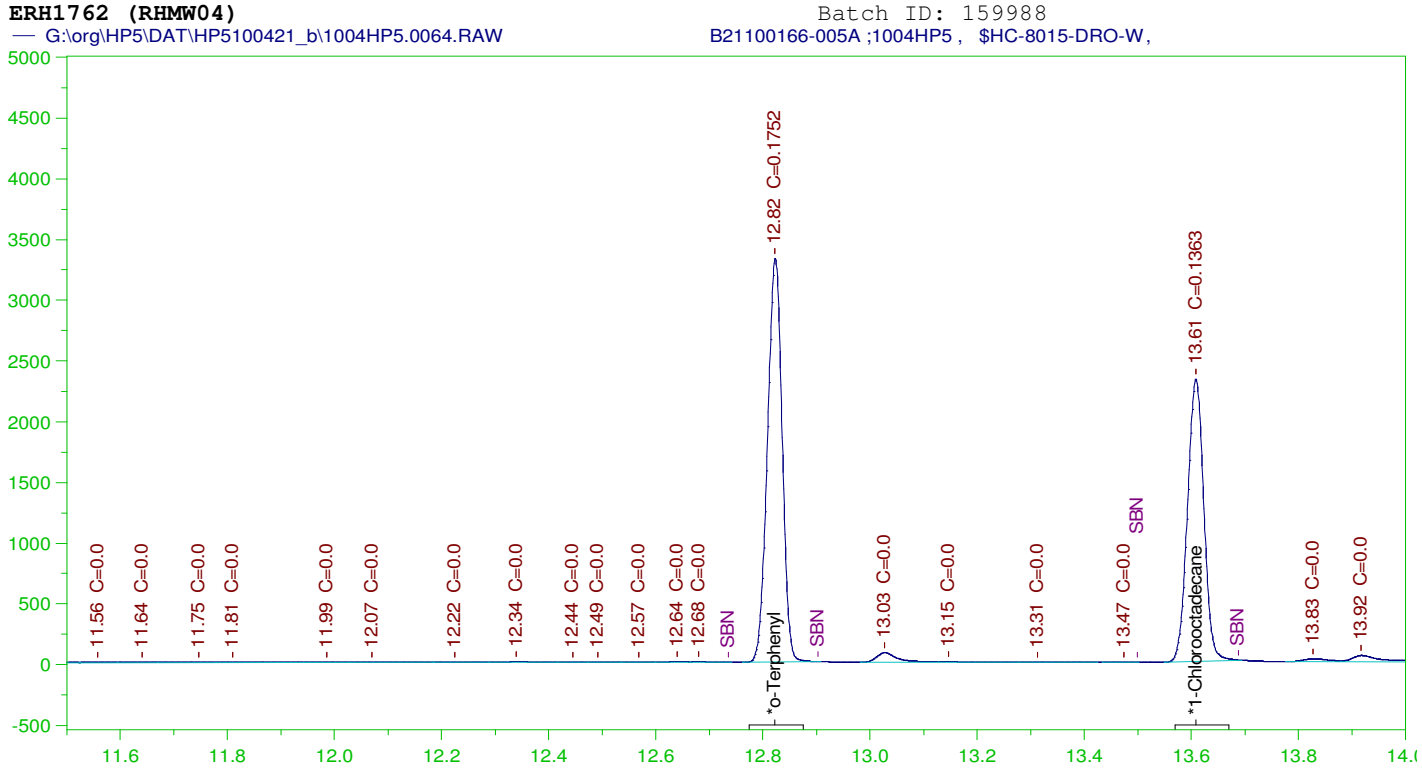
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:4851521 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.1650251

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\064_B21100166-005A_D3_OIL-S-AHb-L%.xls

**ERH1762 (RHMW04)** Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-005A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0064.RAW
Date & Time Acquired: 10/6/2021 11:07:08 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .194 | .175 | 90.2 | - |
| *1-Chlorooctadecane | 13.608 | .194 | .136 | 70.22 | - |

DRO Area:1374988 DRO Amount: 4.531774E-02
TEH Area:3915435 TEH Amount: 0.1290474

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**ERH1765 (RHMW09)** Batch ID: 159988

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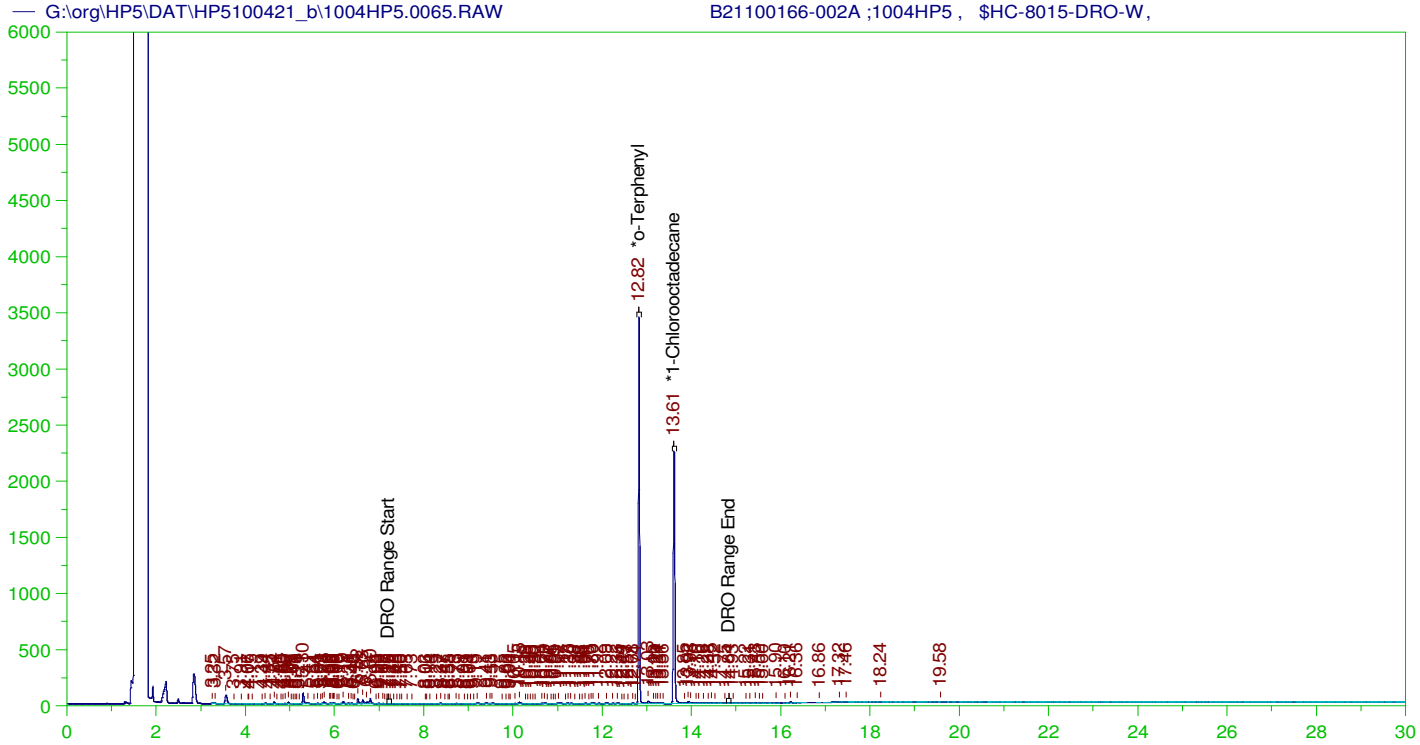


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0065.RAW
Date & Time Acquired: 10/6/2021 11:54:38 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .192 | .179 | 93.18 | - |
| *1-Chlorooctadecane | 13.608 | .192 | .133 | 69.17 | - |

DRO (C10-C24)Area:603600.1 DRO (C10-C24)Amount: 1.970256E-02
TEH Area:1710598 TEH Amount: 5.583687E-02

AMN 10/17/2021

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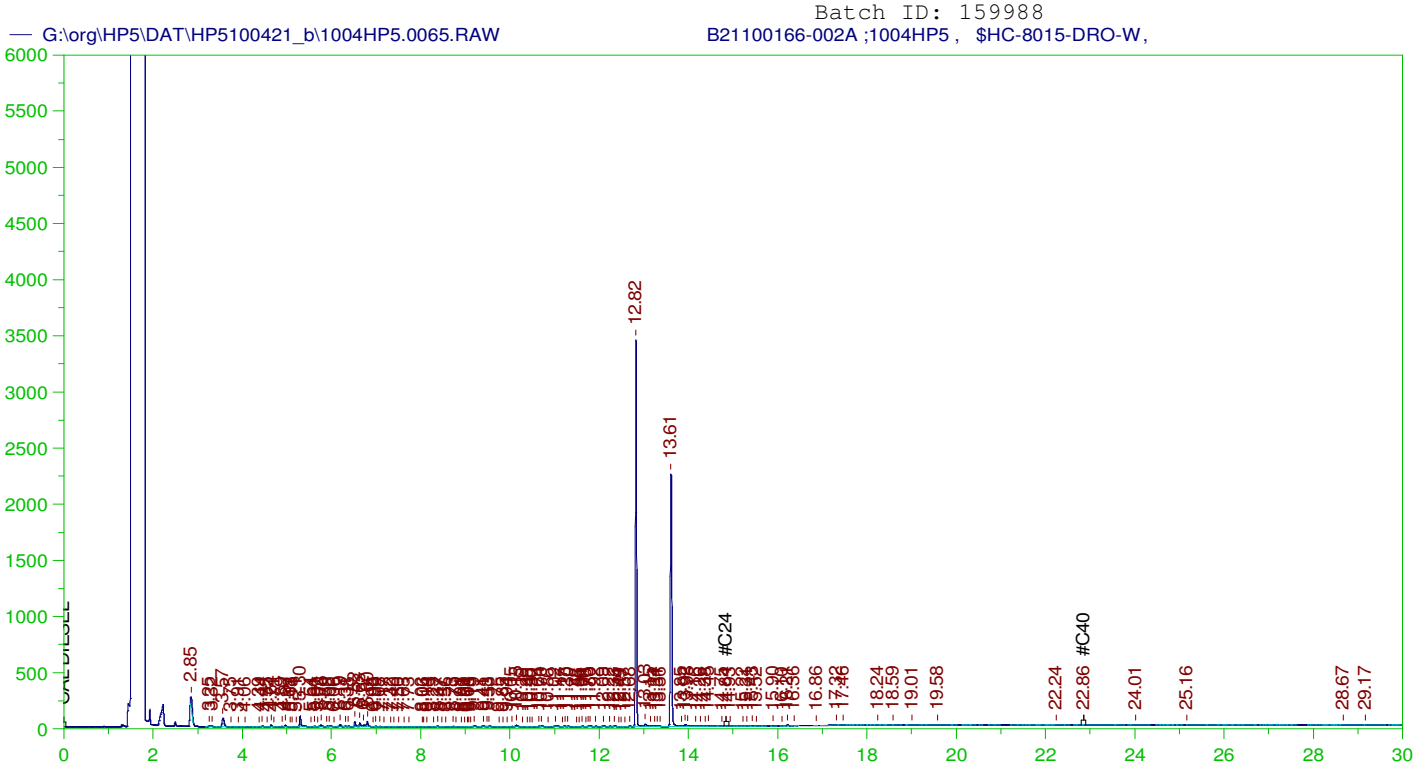
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-002A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0065.RAW
Date & Time Acquired: 10/6/2021 11:54:38 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40)Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:101547.8 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 3.420949E-03

AMN 10/17/2021

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**ERH1765 (RHMW09)** Batch ID: 159988

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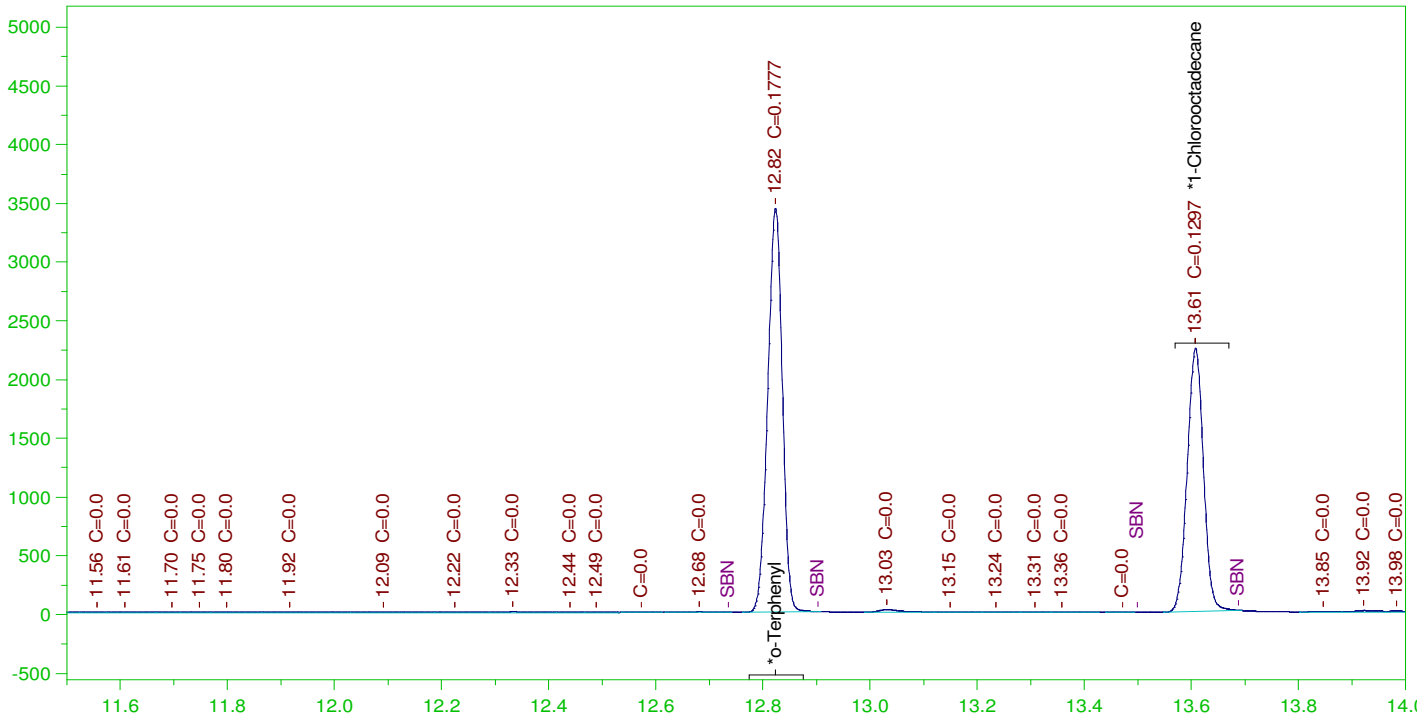



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0065.RAW
Date & Time Acquired: 10/6/2021 11:54:38 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

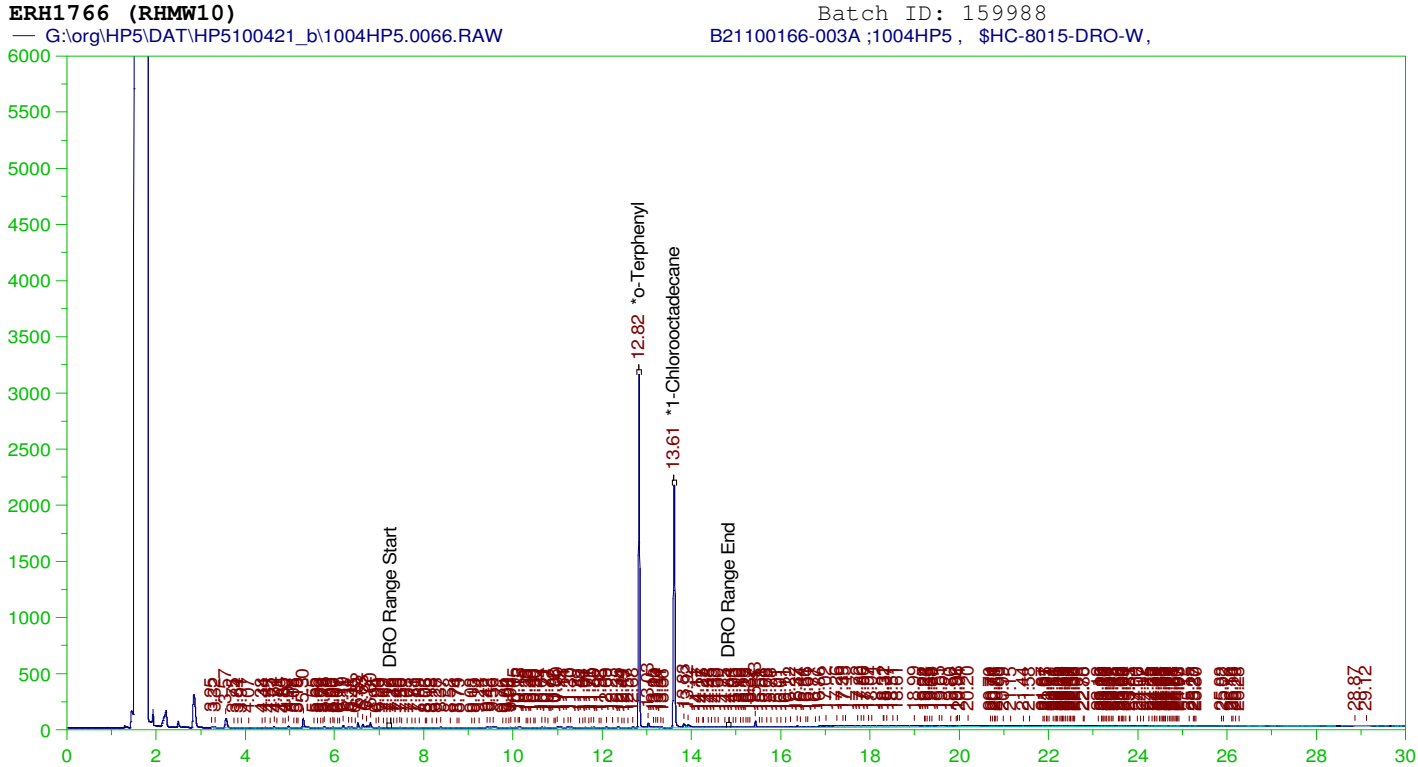
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .192 | .178 | 92.43 | - |
| *1-Chlorooctadecane | 13.608 | .192 | .13 | 67.45 | - |

DRO Area:514882.2 DRO Amount: 1.680665E-02
TEH Area:2613567 TEH Amount: 8.531138E-02

G:\org\HP5\dat\HP5100421_b\Review\Og\065_B21100166-002A_DS_8015-HPa-L#.xls

**ERH1766 (RHMW10)** Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-003A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0066.RAW
Date & Time Acquired: 10/6/2021 12:42:16 PM
Method File: G:\Org\HP5\Methods\D3_8015-100466-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.824 | .192 | .165 | 85.72 | - |
| *1-Chlorooctadecane | 13.609 | .192 | .128 | 66.52 | - |

DRO (C10-C24)Area:881705.5 DRO(C10-C24) Amount: 0.0287804
TEH Area:6499245 TEH Amount: 0.2121466

AMN 10/17/2021

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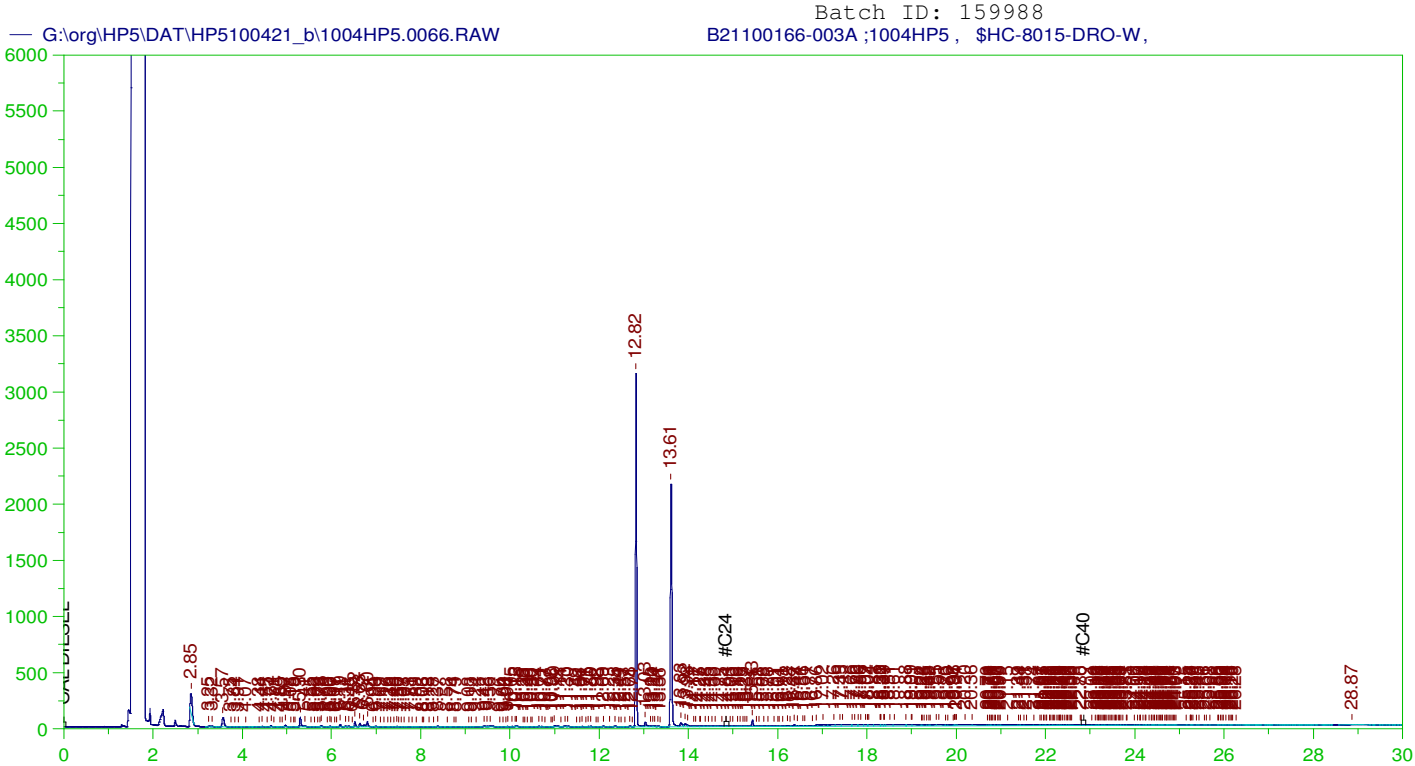
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-003A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0066.RAW
Date & Time Acquired: 10/6/2021 12:42:16 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-100466-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:4088342 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 0.1377283

AMN 10/17/2021

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**ERH1766 (RHMW10)** Batch ID: 159988

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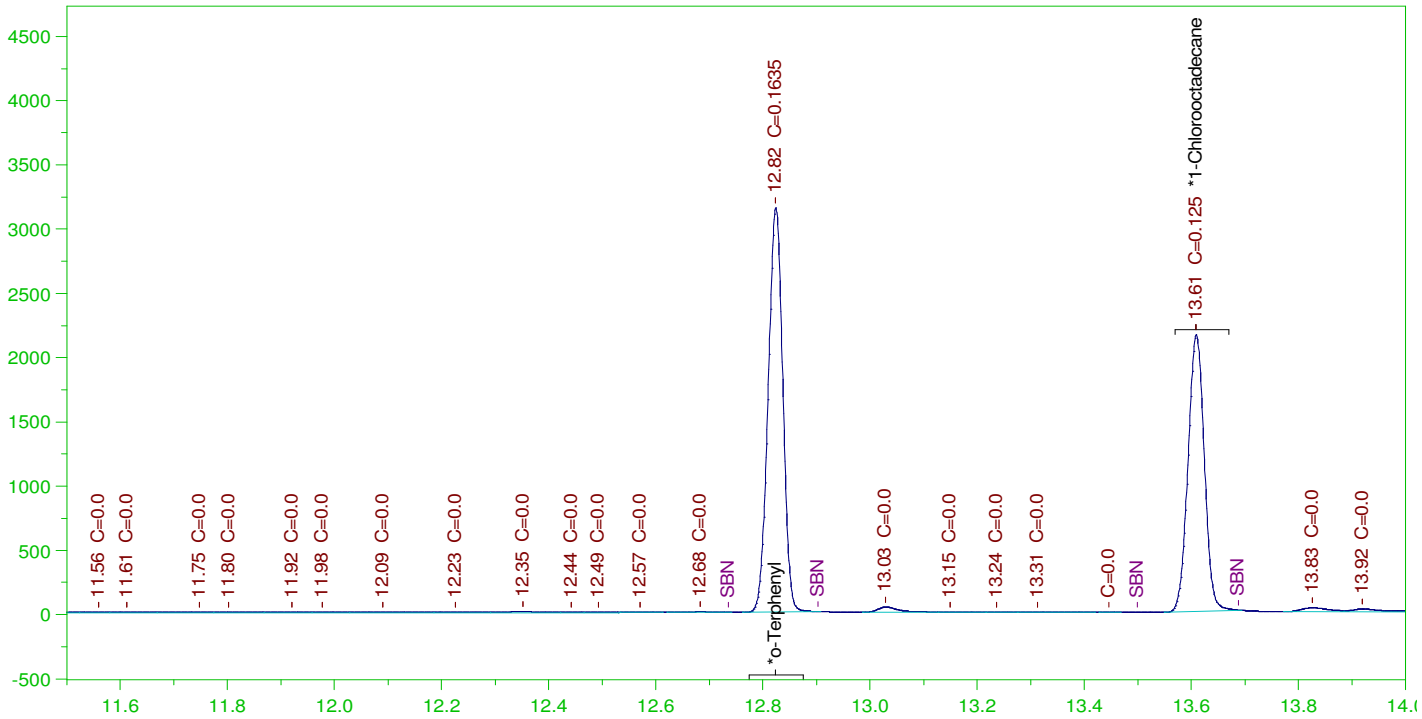


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-003A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0066.RAW
Date & Time Acquired: 10/6/2021 12:42:16 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.824 | .192 | .164 | 85.03 | - |
| *1-Chlorooctadecane | 13.609 | .192 | .125 | 64.98 | - |

DRO Area:882610.3 DRO Amount: 2.880993E-02
TEH Area:3127177 TEH Amount: 0.1020765

G:\org\HP5\dat\HP5100421_b\Review\Og\066_B21100166-003A_DS_8015-HPa-L#.xls

**ERH1769 (RHMW19)** Batch ID: 159988

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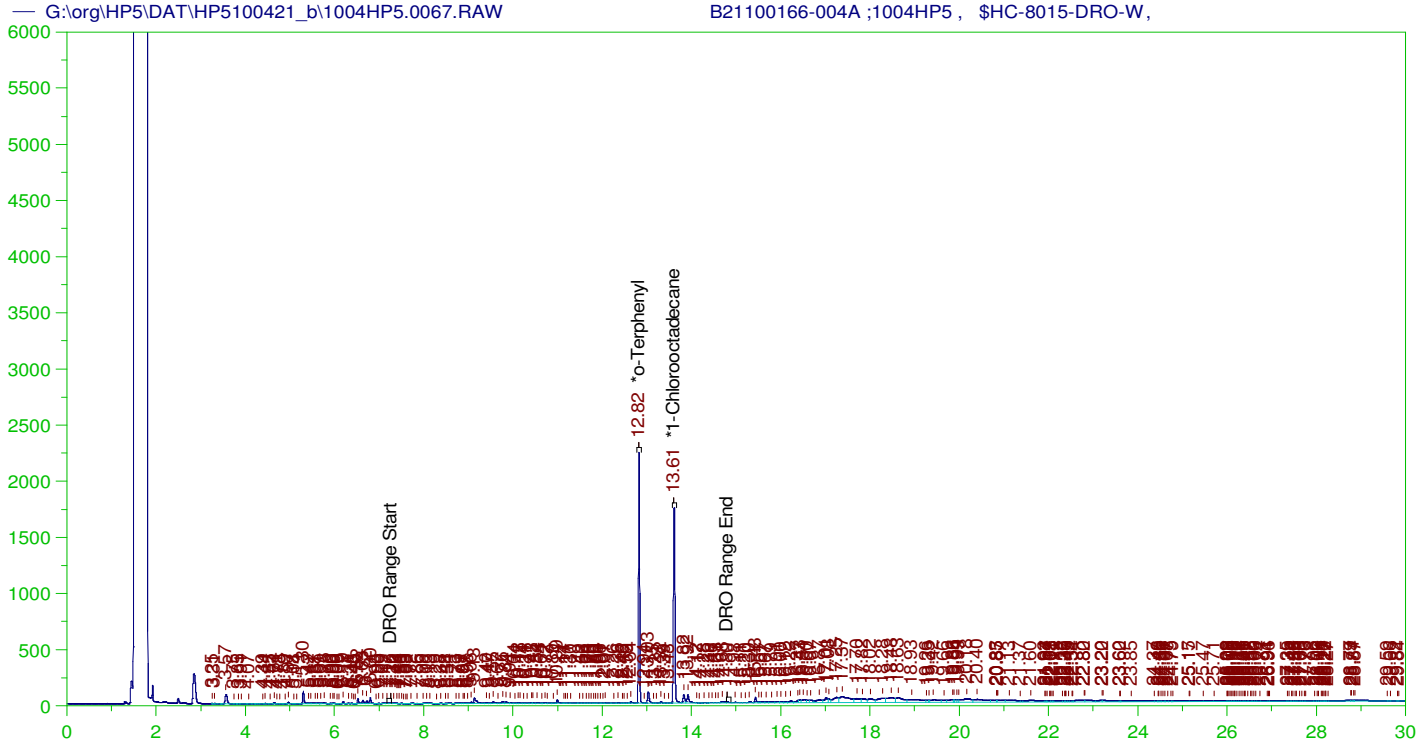


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-004A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0067.RAW
Date & Time Acquired: 10/6/2021 1:29:54 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .196 | .119 | 60.85 | - |
| *1-Chlorooctadecane | 13.609 | .196 | .105 | 53.36 | - |

DRO (C10-C24)Area:2471758 DRO (C10-C24)Amount: 8.226448E-02
TEH Area:1.70335E+07 TEH Amount: 0.566905

AMN 10/17/2021

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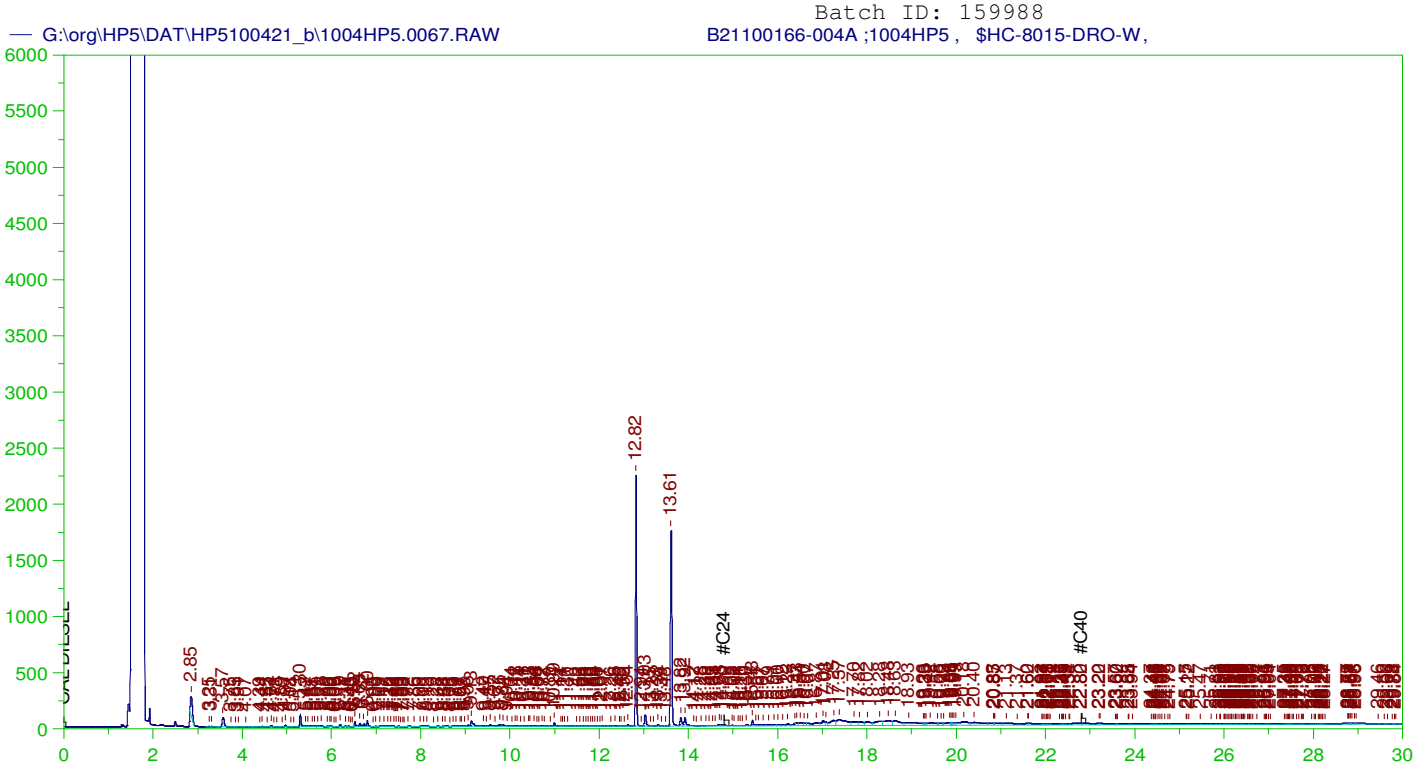
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-004A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0067.RAW
Date & Time Acquired: 10/6/2021 1:29:54 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

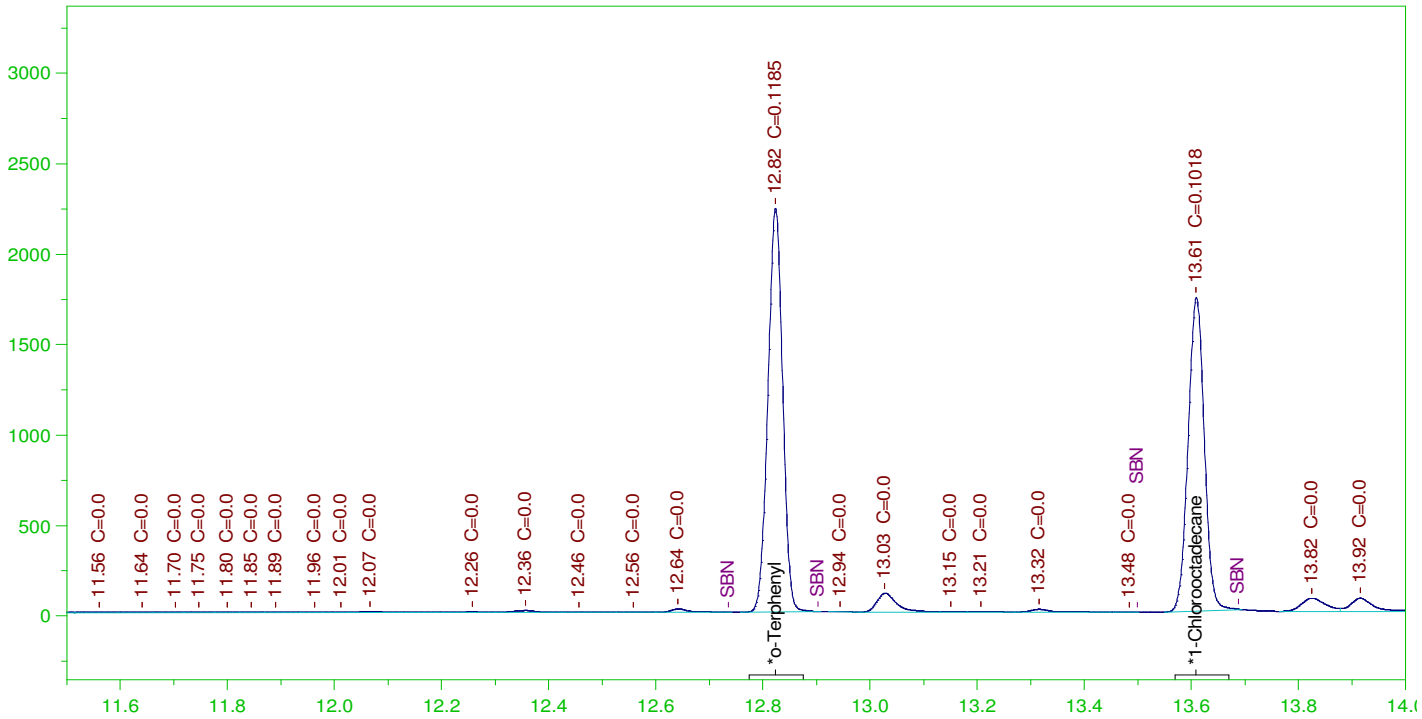
~~RRO~~ Oil Range(C24-C40)Area:1.094225E+07 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.375851

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\067_B21100166-004A_D3_OIL-S-AHb-L%.xls

**ERH1769 (RHMW19)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0067.RAW B21100166-004A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-004A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0067.RAW
Date & Time Acquired: 10/6/2021 1:29:54 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

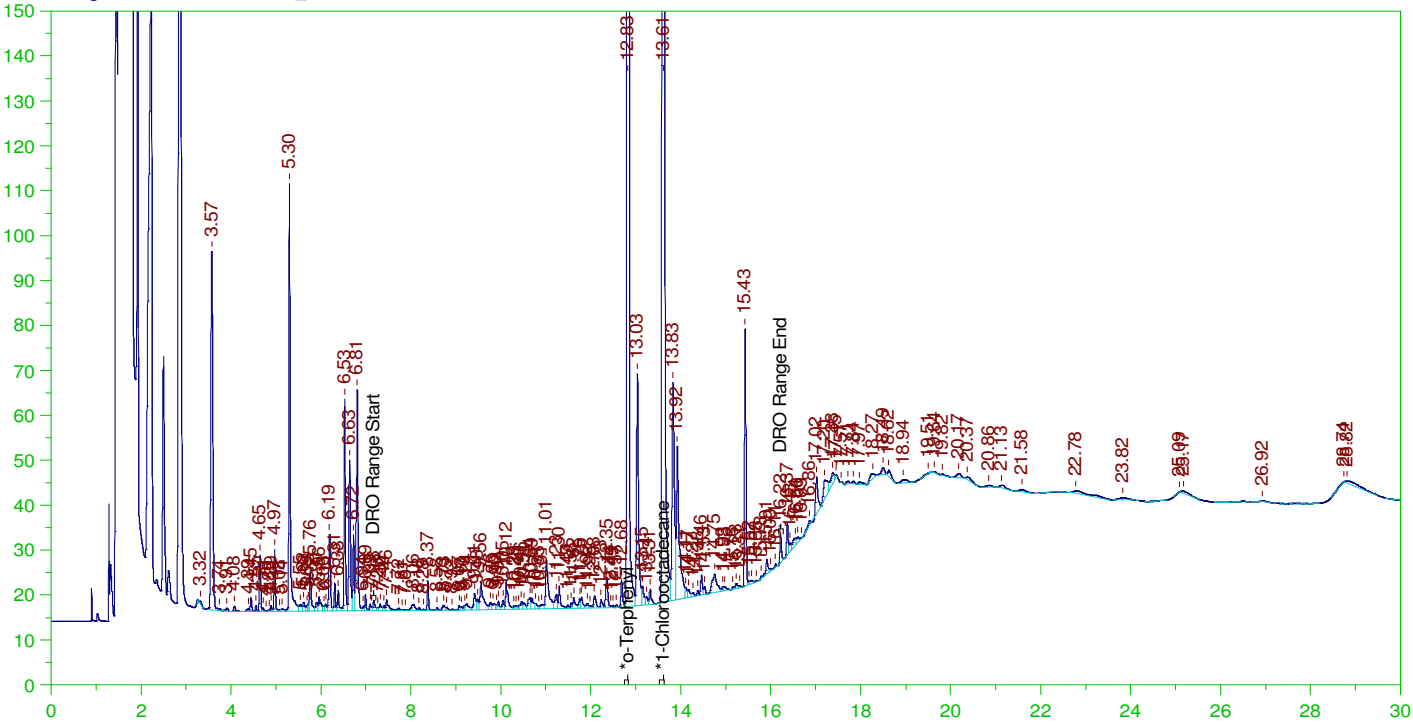
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.823 | .196 | .119 | 60.45 | - |
| *1-Chlorooctadecane | 13.609 | .196 | .102 | 51.91 | - |

DRO Area:2423874 DRO Amount: 8.067083E-02
TEH Area:4789012 TEH Amount: 0.1593868

G:\org\HP5\dat\HP5100421_b\Review\Og\067_B21100166-004A_DS_8015-HPa-L#.xls

**ERH1763 (RHMW06)** Batch ID: 159988

— G:\Org\HP5\DAT\HP5100421_b\1004HP5.0068.RAW B21100166-006A ;1004HP5 , $HC-8015-DRO-W, Need another RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

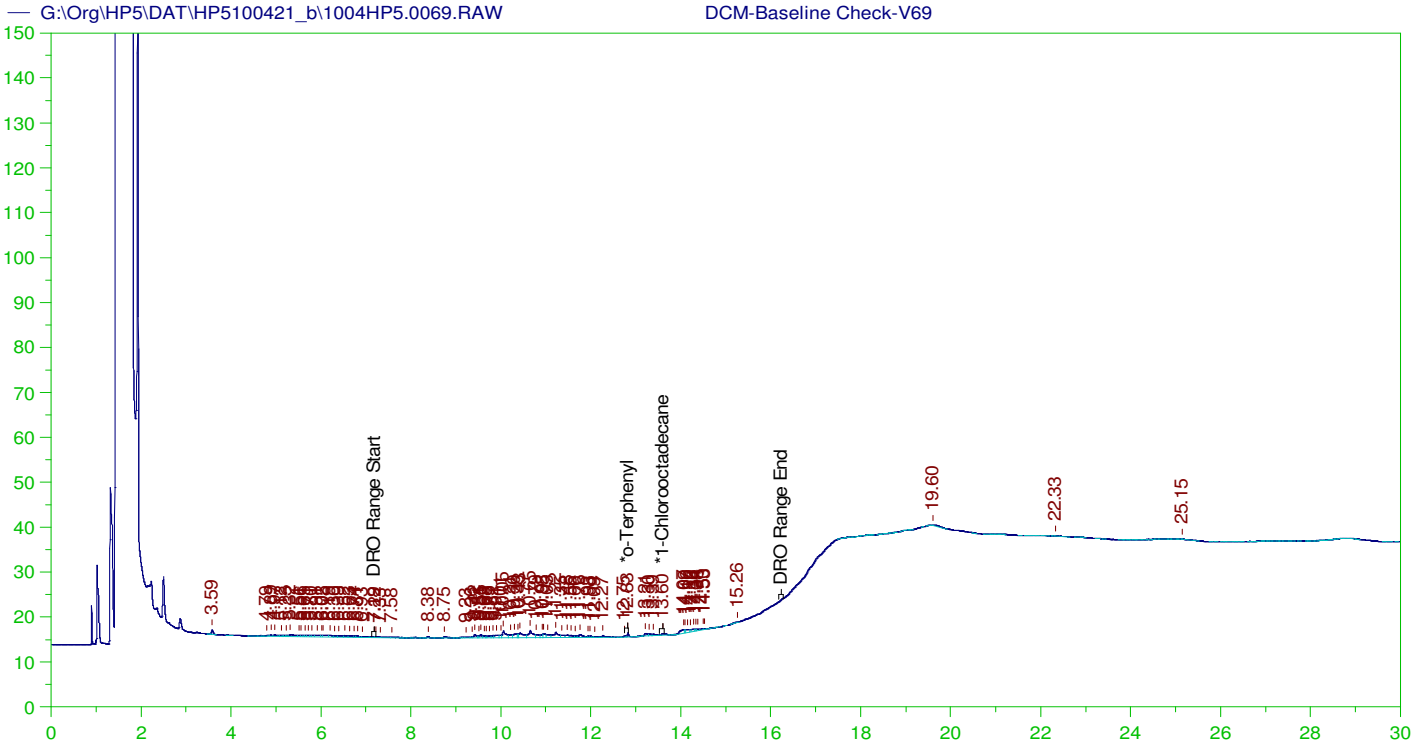
Sample Name: B21100166-006A ;1004HP5 , $HC-8015-DRO-W, Need another RR
Raw File: G:\Org\HP5\DAT\HP5100421_b\1004HP5.0068.RAW
Date & Time Acquired: 10/6/2021 2:18:35 PM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.125 to 16.28

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.826 | .194 | .169 | 86.86 | - |
| *1-Chlorooctadecane | 13.611 | .194 | .131 | 67.55 | - |

DRO Area:1165653 DRO Amount: 3.841834E-02
TEH Area:2433223 TEH Amount: 8.019574E-02

G:\org\HP5\dat\HP5100421_b\Review\068_B21100166-006A_DR_8015-HP-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V69
Raw File: G:\Org\HP5\DAT\HP5100421_b\1004HP5.0069.RAW
Date & Time Acquired: 10/6/2021 3:07:57 PM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

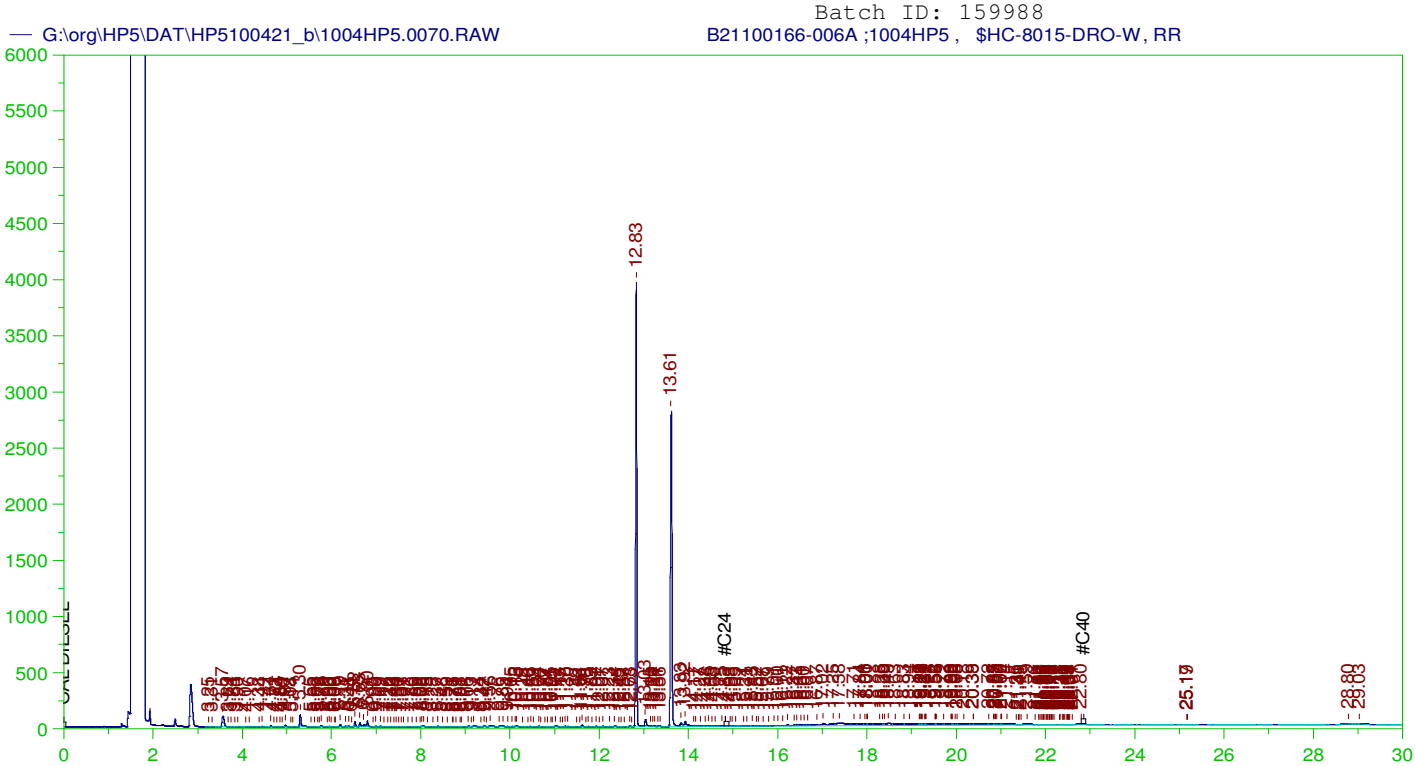
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.125 to 16.28

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.826 | 200. | .06 | .03 | - |
| *1-Chlorooctadecane | 13.6 | 200. | .055 | .03 | - |

DRO Area:135172.6 DRO Amount: 4.588758
TEH Area:184383.8 TEH Amount: 6.25935

G:\org\HP5\dat\HP5100421_b\Review\069_DCM-Baseline Chec_DR_8015-HP-LEXP.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0070.RAW
Date & Time Acquired: 10/6/2021 3:57:08 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-100470-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40)Area:4271924 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.1467346

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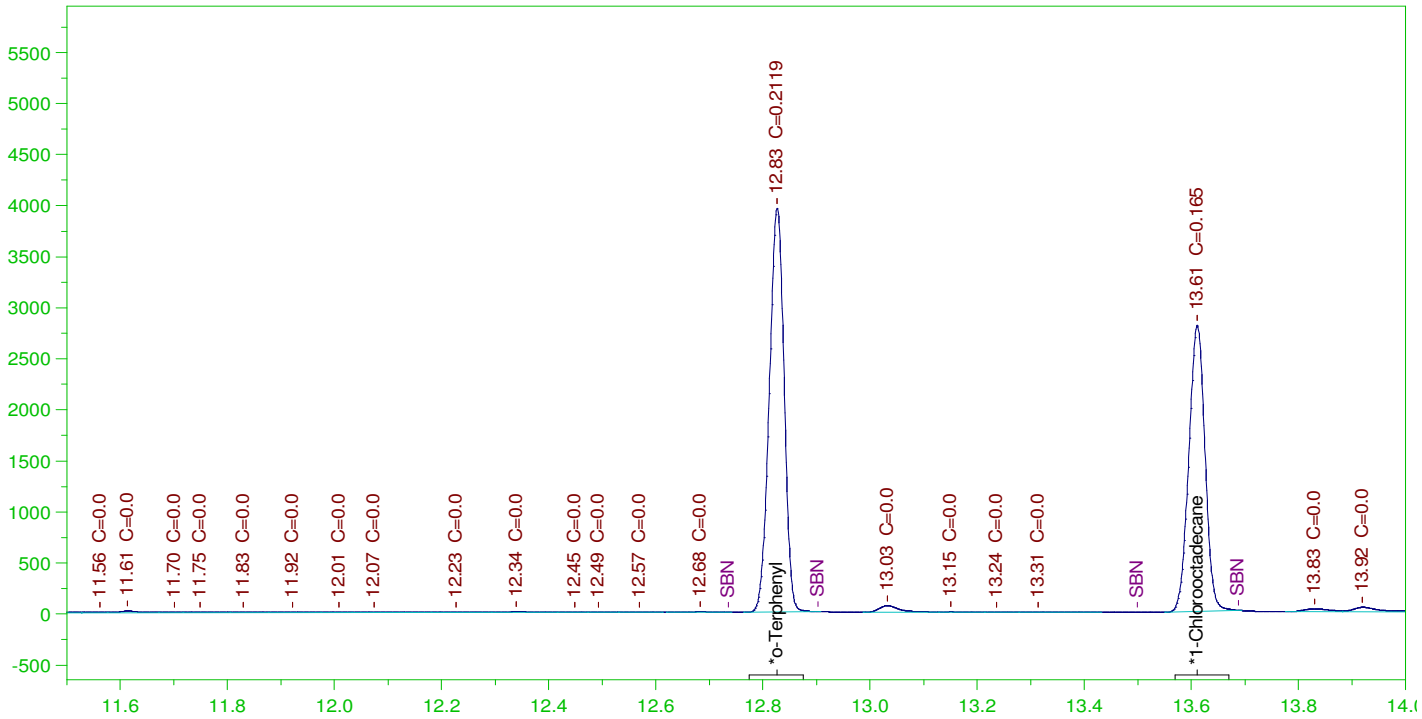
G:\org\HP5\dat\HP5100421_b\Review\Og\070_B21100166-006A_D3_OIL-S-100470-AHb-L%.xls

**ERH1763 (RHMW06)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0070.RAW B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0070.RAW
Date & Time Acquired: 10/6/2021 3:57:08 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

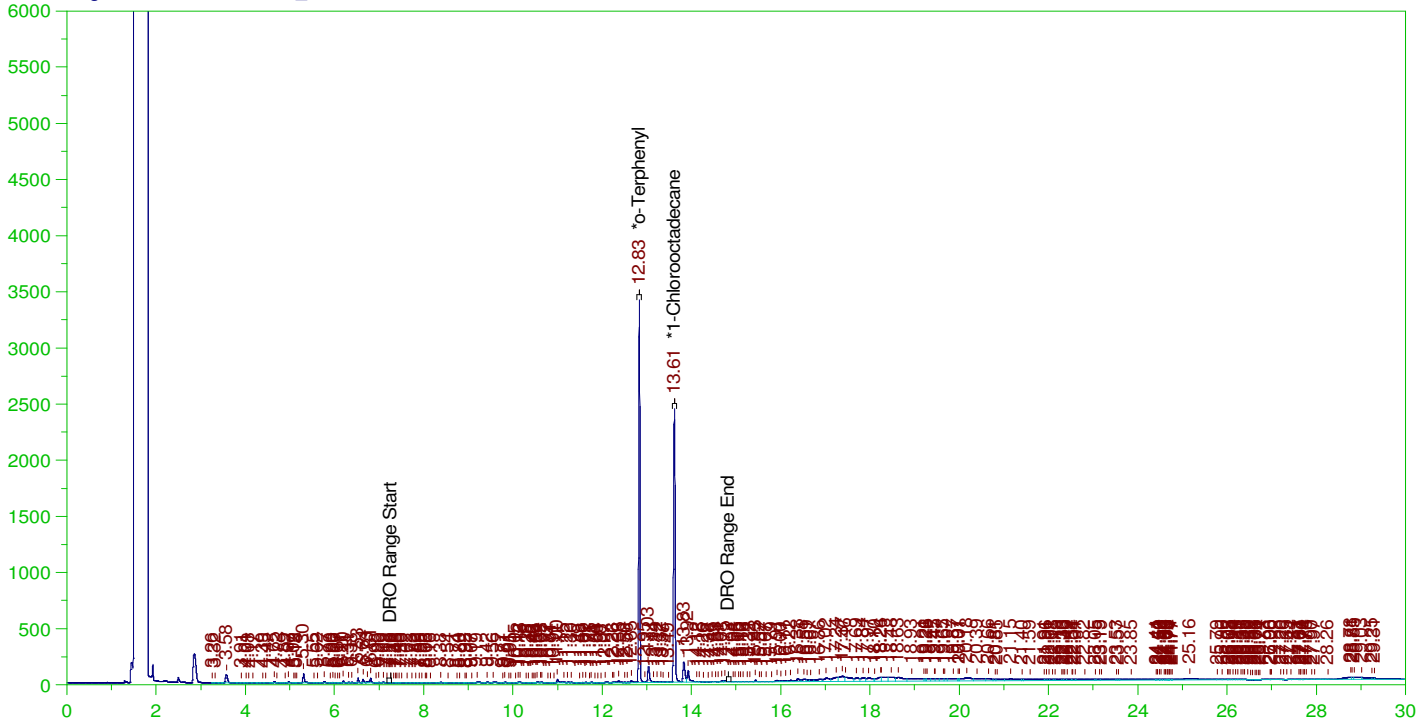
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.827 | .196 | .212 | 108.06 | - |
| *1-Chlorooctadecane | 13.611 | .196 | .165 | 84.13 | - |

DRO Area:1031903 DRO Amount: 3.434355E-02
TEH Area:3831723 TEH Amount: 0.1275265

G:\org\HP5\dat\HP5100421_b\Review\Og\070_B21100166-006A_DS_8015-HPa-L#.xls

**ERH1768 (RHMW16)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW B21100166-007A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-007A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW
Date & Time Acquired: 10/6/2021 4:45:57 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | .192 | .18 | 93.83 | - |
| *1-Chlorooctadecane | 13.613 | .192 | .144 | 74.73 | - |

DRO (C10-C24)Area:2226198 DRO (C10-C24)Amount: 7.266697E-02
TEH Area:1.524978E+07 TEH Amount: 0.4977794

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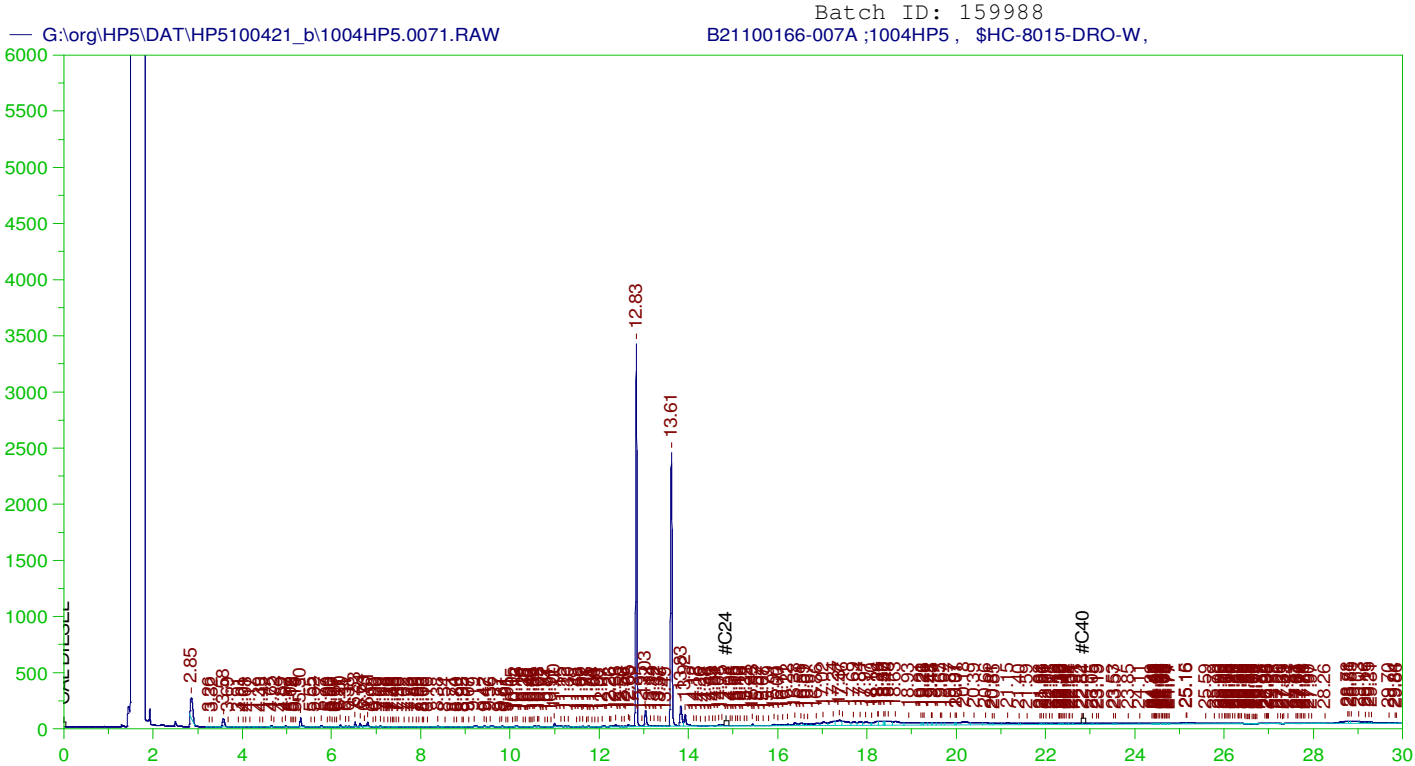
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-007A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW
Date & Time Acquired: 10/6/2021 4:45:57 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(C24-C40) Area:9542584 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.3214712

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G:\org\HP5\dat\HP5100421_b\Review\Og\071_B21100166-007A_D3_OIL-S-AHb-L%.xls

**ERH1768 (RHMW16)** Batch ID: 159988

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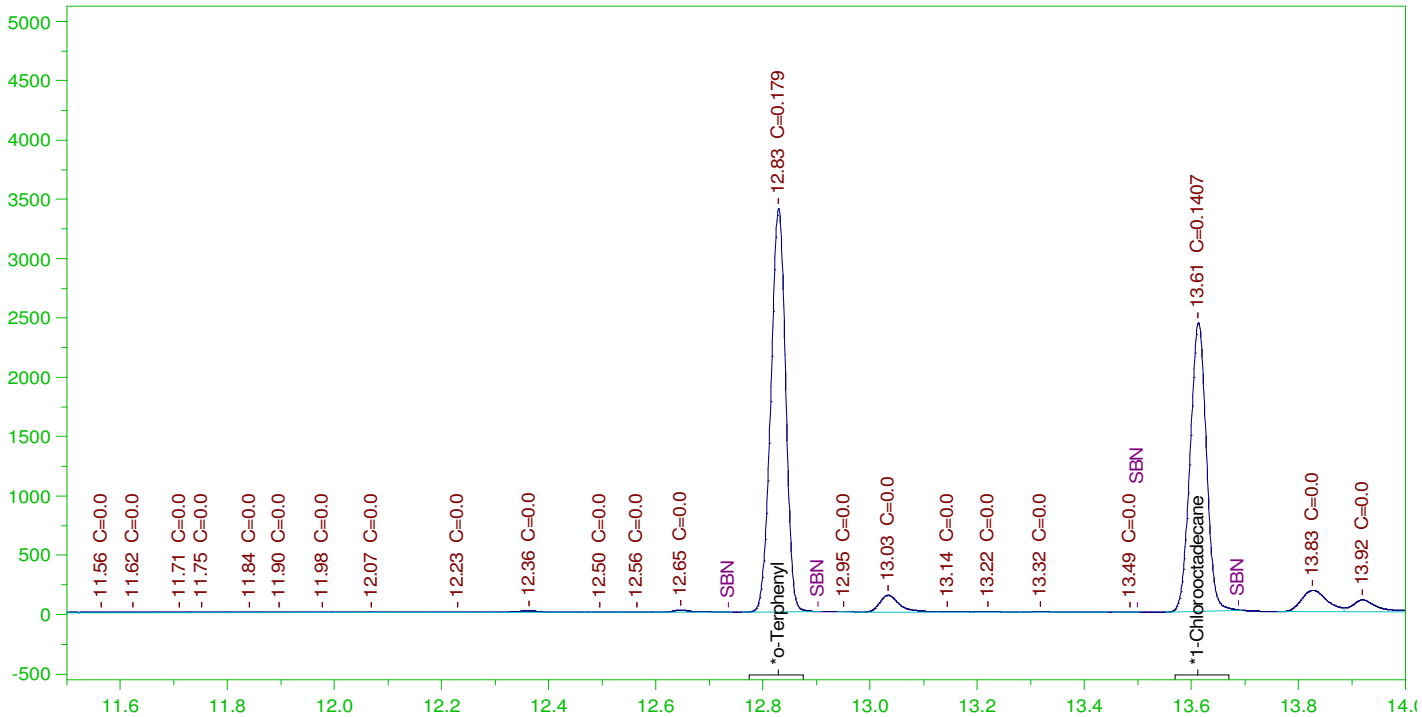


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-007A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0071.RAW
Date & Time Acquired: 10/6/2021 4:45:57 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.829 | .192 | .179 | 93.09 | - |
| *1-Chlorooctadecane | 13.613 | .192 | .141 | 73.18 | - |

DRO Area:2093301 DRO Amount: 6.832896E-02
TEH Area:4273724 TEH Amount: 0.1395018

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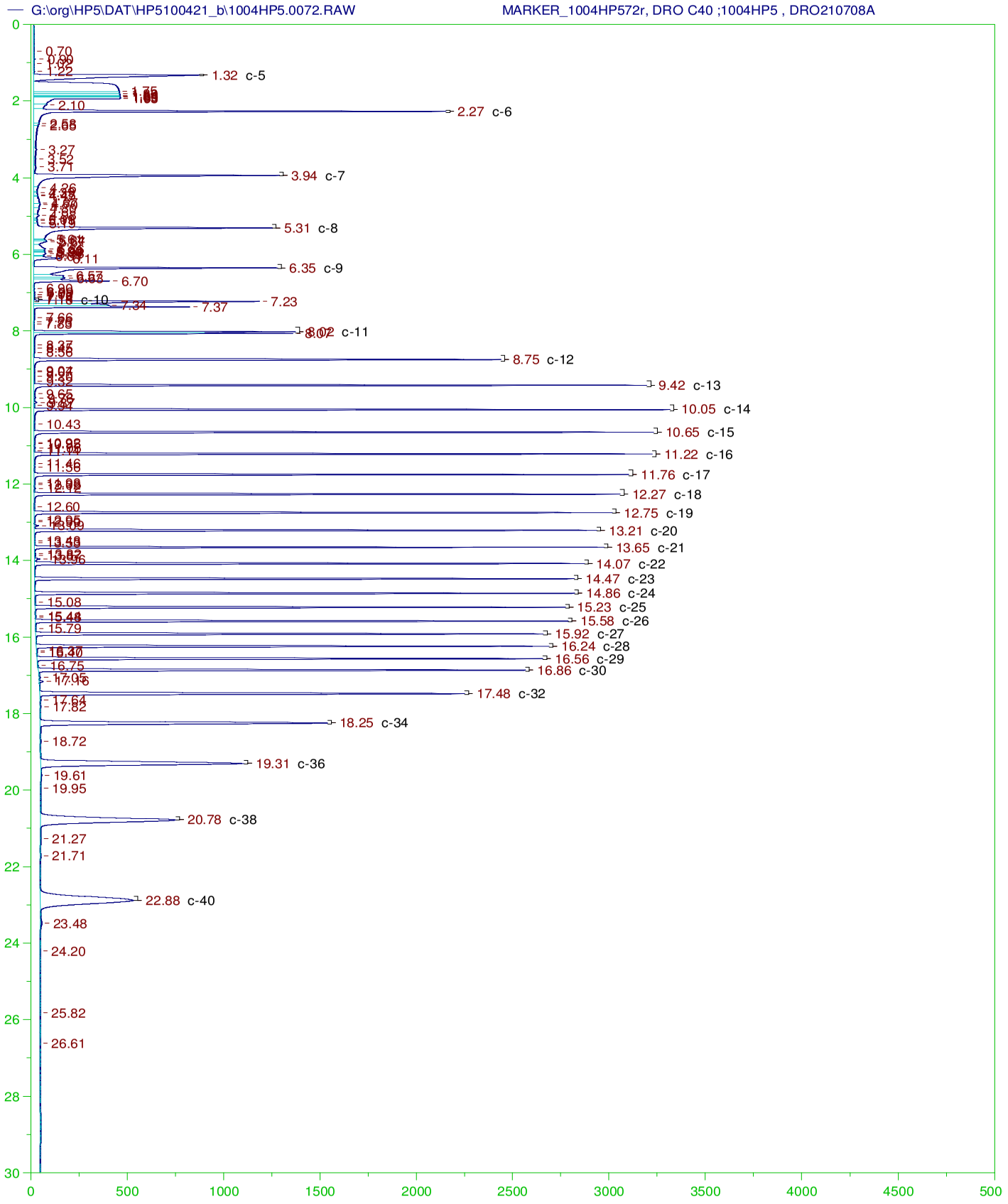
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MARKER_1004HP572r, DRO C40 ;1004HP5 , DRO210708A
1.32 c-5
2.27 c-6
3.94 c-7
5.31 c-8
6.35 c-9
7.23
8.75 c-12
9.42 c-13
10.05 c-14
10.65 c-15
11.22 c-16
11.76 c-17
12.27 c-18
12.75 c-19
13.21 c-20
13.65 c-21
14.07 c-22
14.47 c-23
14.86 c-24
15.23 c-25
15.58 c-26
15.92 c-27
16.24 c-28
16.56 c-29
16.86 c-30
17.48 c-32
18.25 c-34
19.31 c-36
20.78 c-38
22.88 c-40
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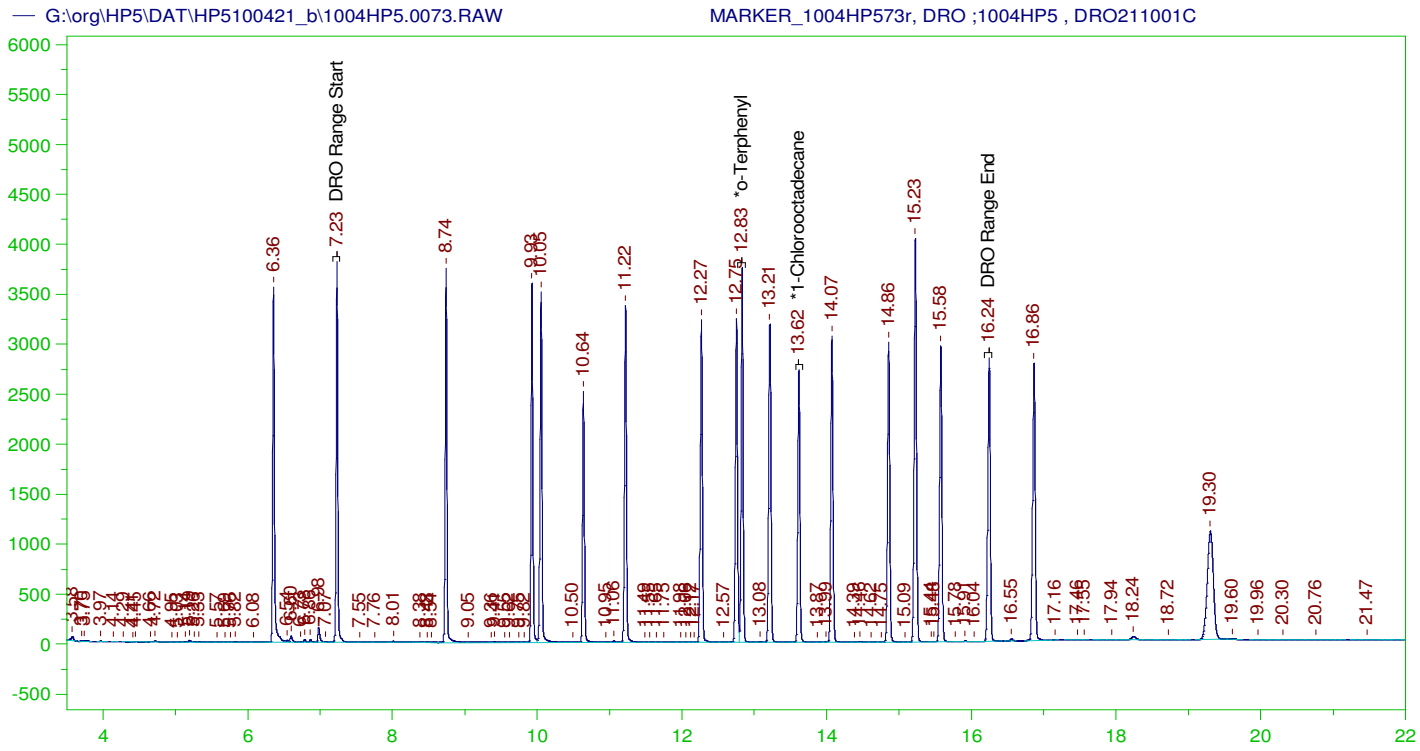



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

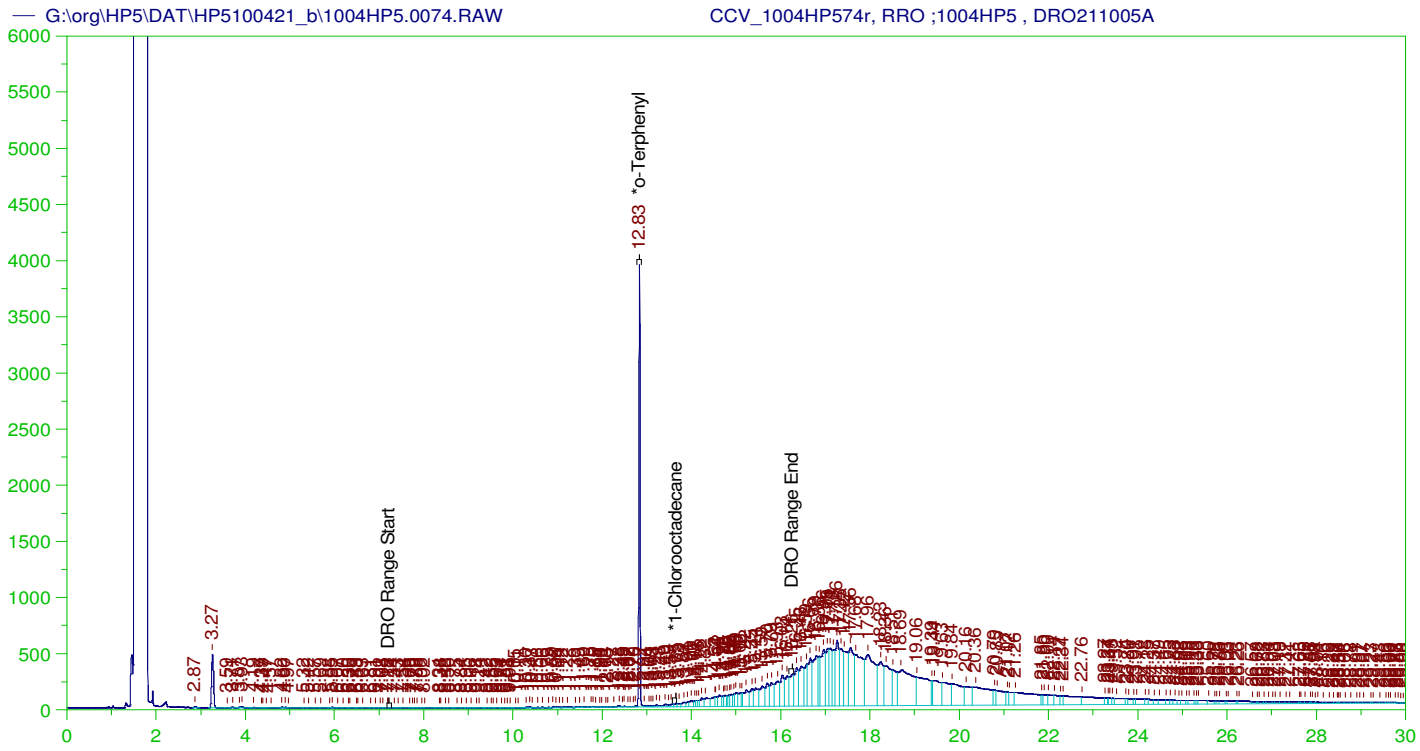
Sample Name: MARKER_1004HP573r, DRO ;1004HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0073.RAW
Date & Time Acquired: 10/6/2021 6:22:56 PM
Method File: G:\Org\HP5\Methods\DC_8015-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | .2 | .204 | 101.75 | - |
| *1-Chlorooctadecane | 13.615 | .2 | .164 | 82.03 | - |

DRO Area:9.257196E+07 DRO Amount: 3.142578
TEH Area:1.185706E+08 TEH Amount: 4.025165

G:\org\HP5\dat\HP5100421_b\Review\Og\073_MARKER_1004HP573r_DC_8015-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP574r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0074.RAW
Date & Time Acquired: 10/6/2021 7:10:47 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AHb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | 200. | 215.935 | 107.97 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 3.796 | 1.9 | - |

DRO Area:2.156024E+07 DRO Amount: 755.3757
TEH (Oil Range)Area:1.303756E+08 TEH (Oil Range) Amount: 4567.784

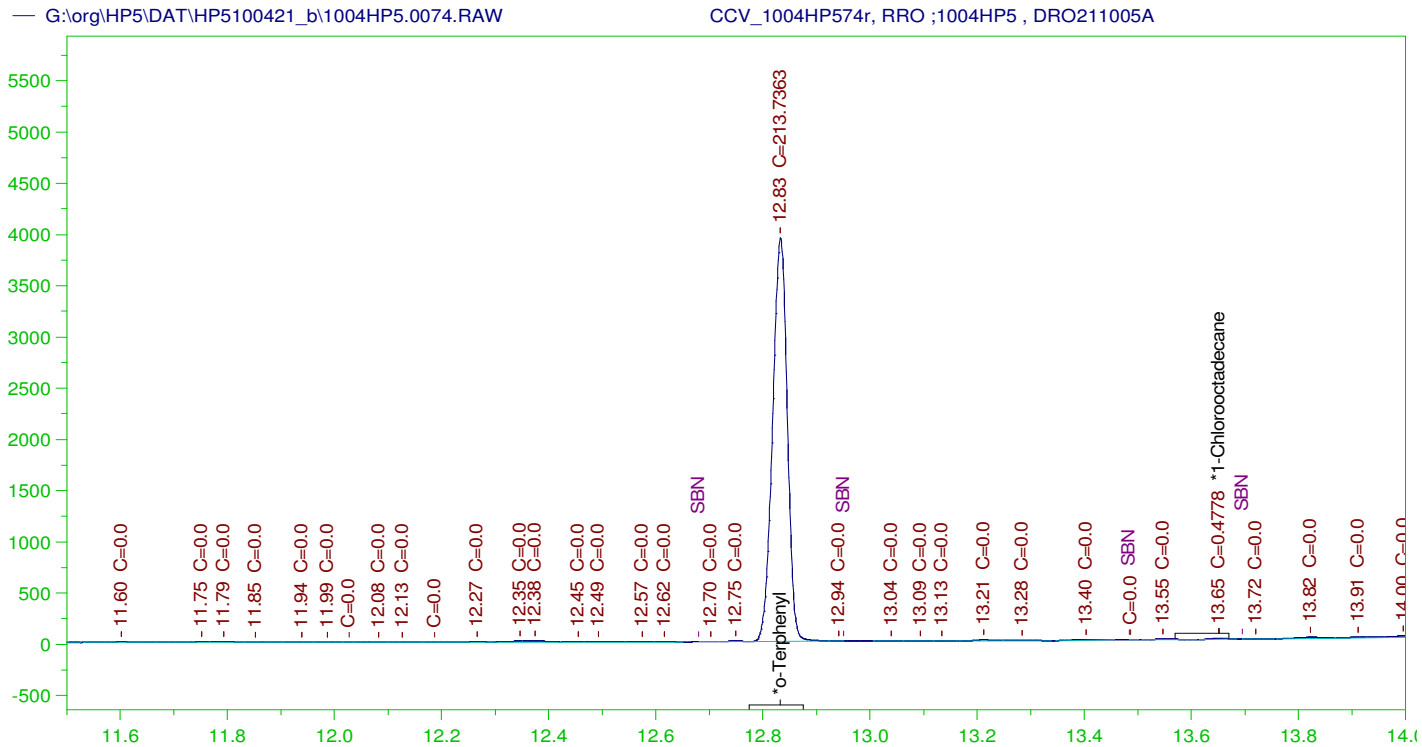
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0074.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4567.78 | 91.36 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | 200. | 215.935 | 107.97 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 3.796 | 1.9 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\074_CCV_1004HP574r_DC_OIL-AHb-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP574r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0074.RAW
Date & Time Acquired: 10/6/2021 7:10:47 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | 200. | 213.736 | 106.87 | - |
| *1-Chlorooctadecane | 13.652 | 200. | .478 | .24 | - |

DRO Area:1505231 DRO Amount: 52.73666
TEH Area:3196590 TEH Amount: 111.9944

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0074.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 111.99 | 2.24 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | 200. | 213.736 | 106.87 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | .478 | .24 | 85-115 |

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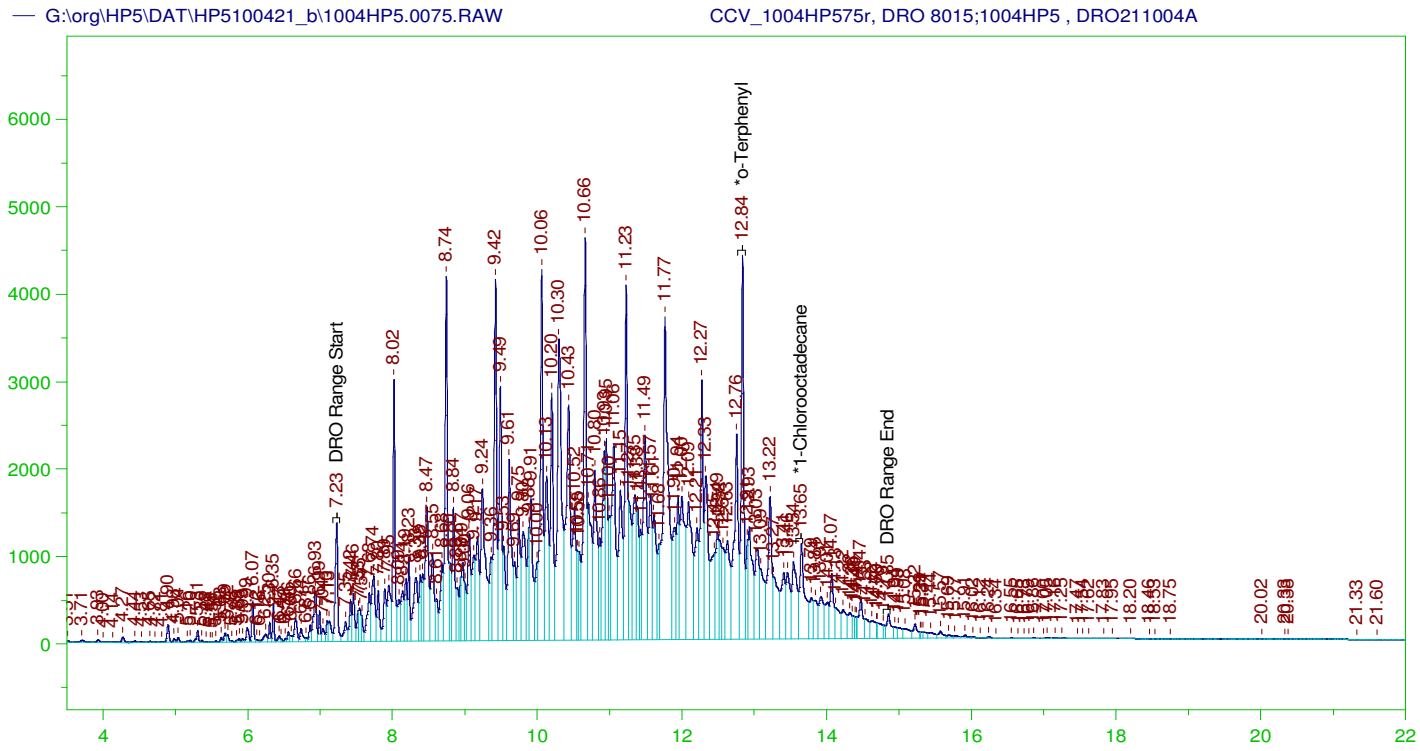


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP575r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0075.RAW
Date & Time Acquired: 10/6/2021 7:58:26 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 316.85 | 158.42 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 153.748 | 76.87 | - |

DRO (C10-C24)Area:4.500669E+08 DRO (C10-C24) Amount: 15278.6
TEH Area:4.654696E+08 TEH Amount: 15801.49

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0075.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15801.49 | 105.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 316.85 | 158.42 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 153.748 | 76.87 | 85-115 |

AMN 10/17/2021

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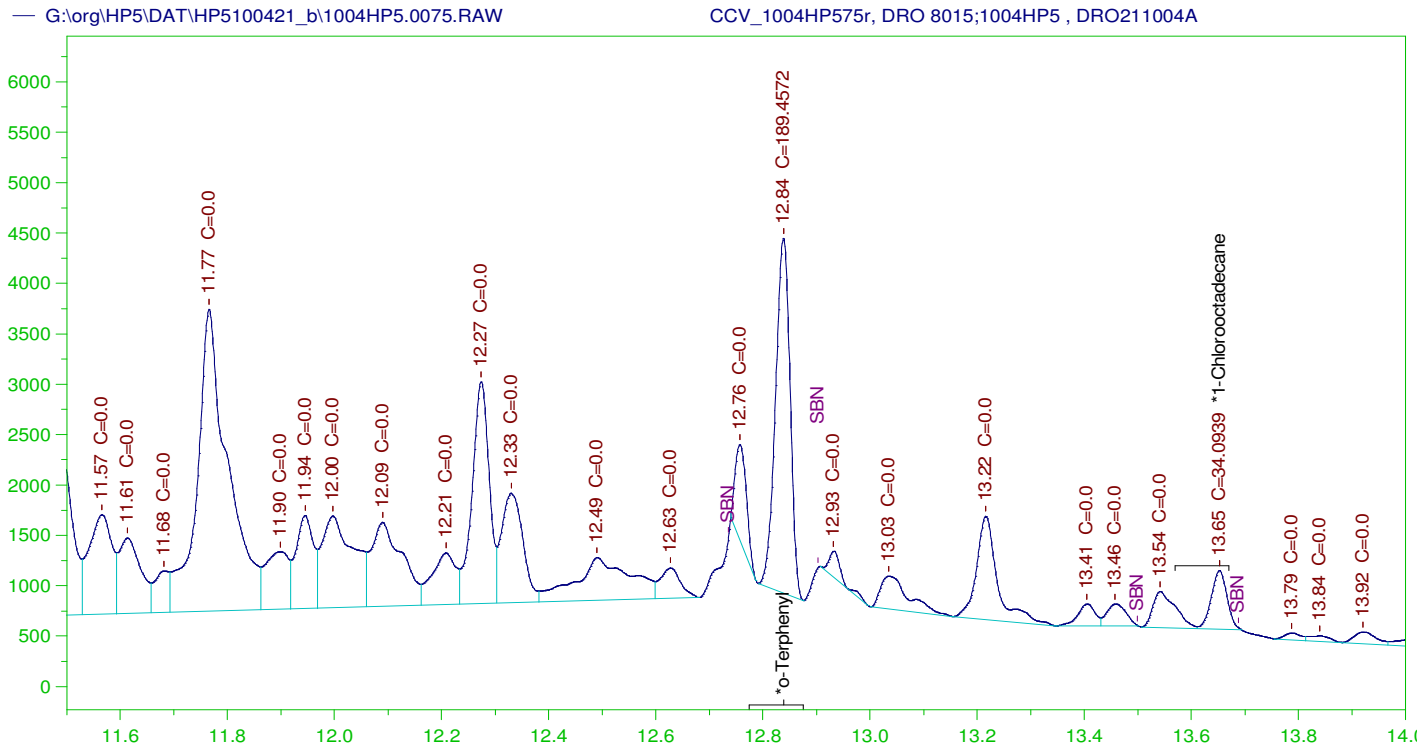



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP575r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0075.RAW
Date & Time Acquired: 10/6/2021 7:58:26 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 189.457 | 94.73 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 34.094 | 17.05 | - |

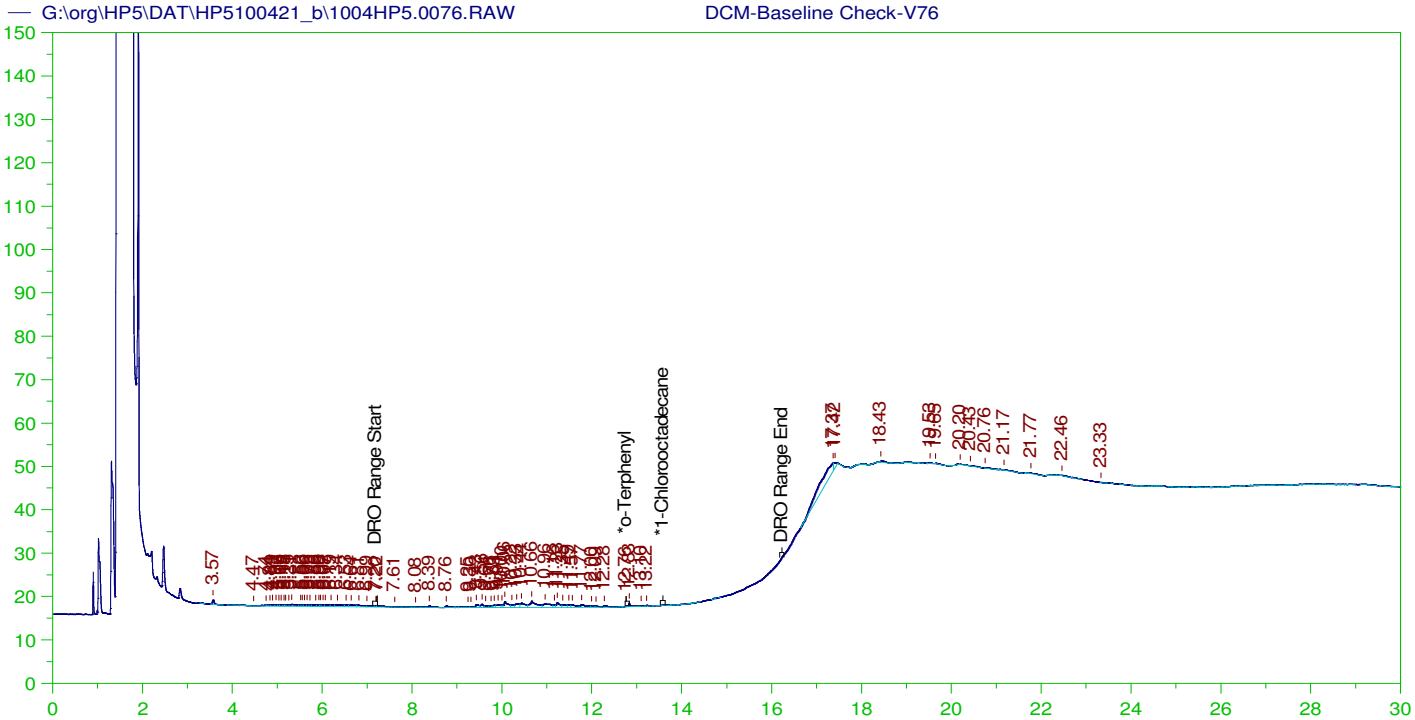
DRO Area:2.524923E+08 DRO Amount: 8571.459
TEH Area:2.624669E+08 TEH Amount: 8910.071

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0075.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8910.07 | 59.4 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 189.457 | 94.73 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 34.094 | 17.05 | 85-115 |

G:\org\HP5\dat\HP5100421_b\Review\Og\075_CCV_1004HP575r_DS_8015-HPa-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V76
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0076.RAW
Date & Time Acquired: 10/6/2021 8:49:22 PM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.125 to 16.28

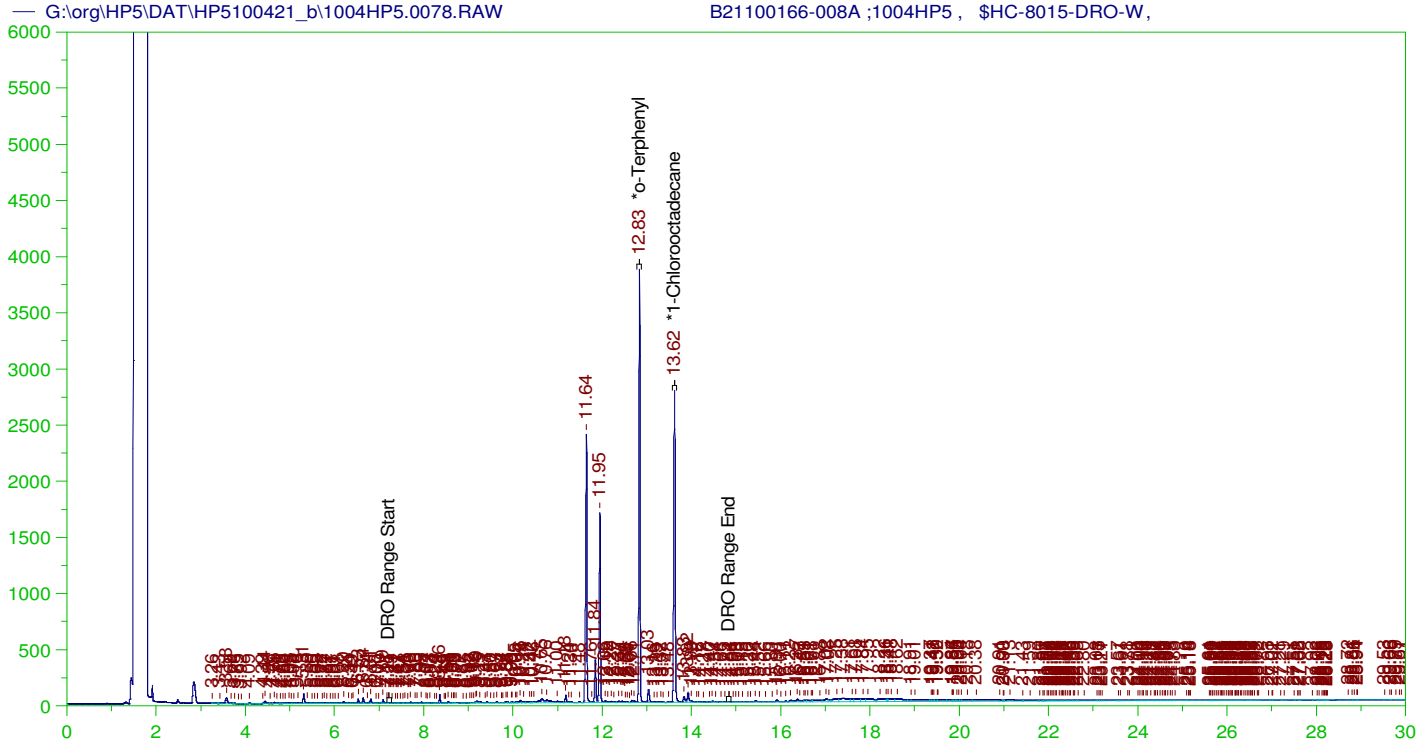
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.762 | 200. | .019 | .01 | - |
| *1-Chlorooctadecane | 29.878 | 200. | . | . | - |

DRO Area:112860.4 DRO Amount: 3.831319
TEH Area:272395.5 TEH Amount: 9.247122

G:\org\HP5\dat\HP5100421_b\Review\Og\076_DCM-Baseline Chec_DR_8015-HP-LEXP.xls

**ERH1770 (OWDFMW01)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW B21100166-008A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-008A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW
Date & Time Acquired: 10/6/2021 10:30:44 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | .19 | .2 | 105.54 | - |
| *1-Chlorooctadecane | 13.616 | .19 | .161 | 84.87 | - |

DRO (C10-C24)Area:1.295337E+07 DRO (C10-C24)Amount: 0.4168086
TEH Area:2.275698E+07 TEH Amount: 0.7322657

AMN 10/17/2021

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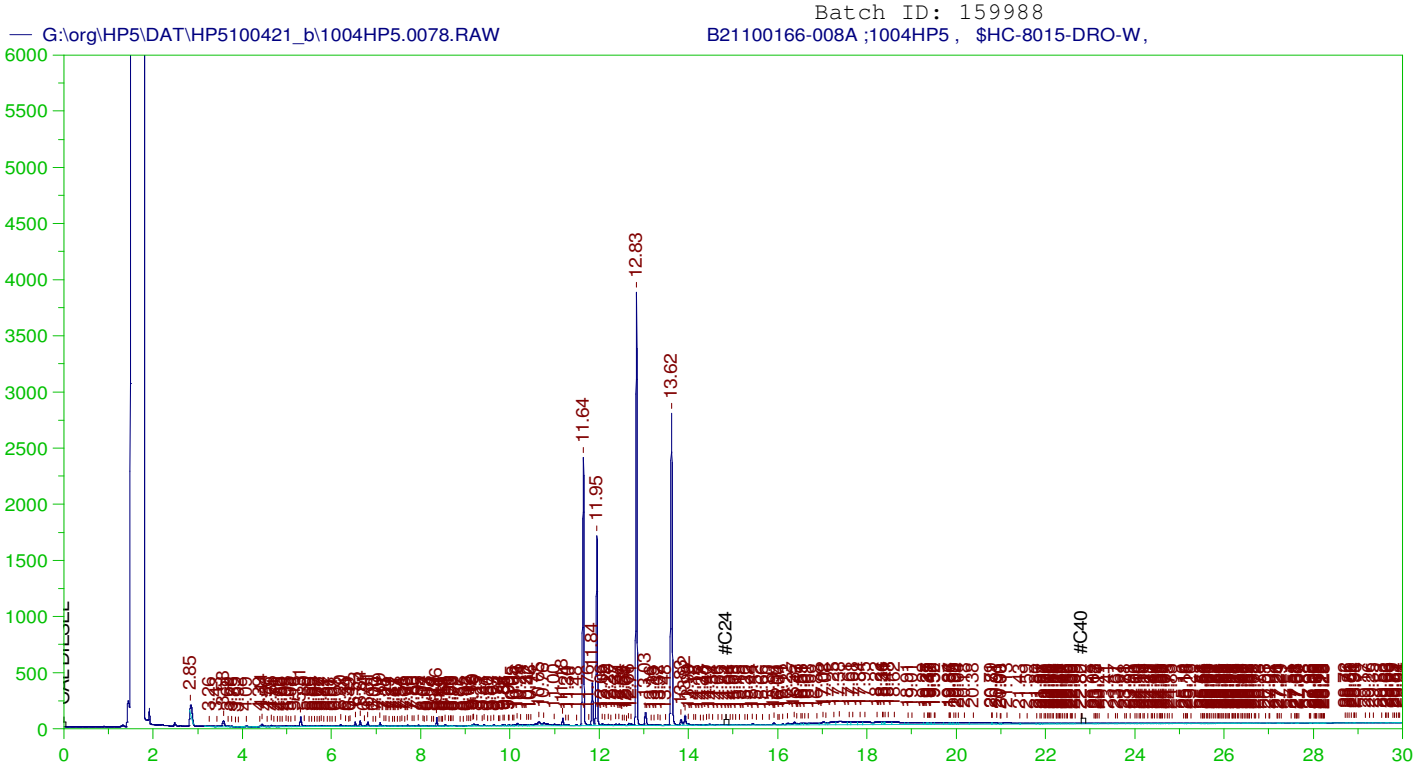
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-008A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW
Date & Time Acquired: 10/6/2021 10:30:44 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.795 to 22.905

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

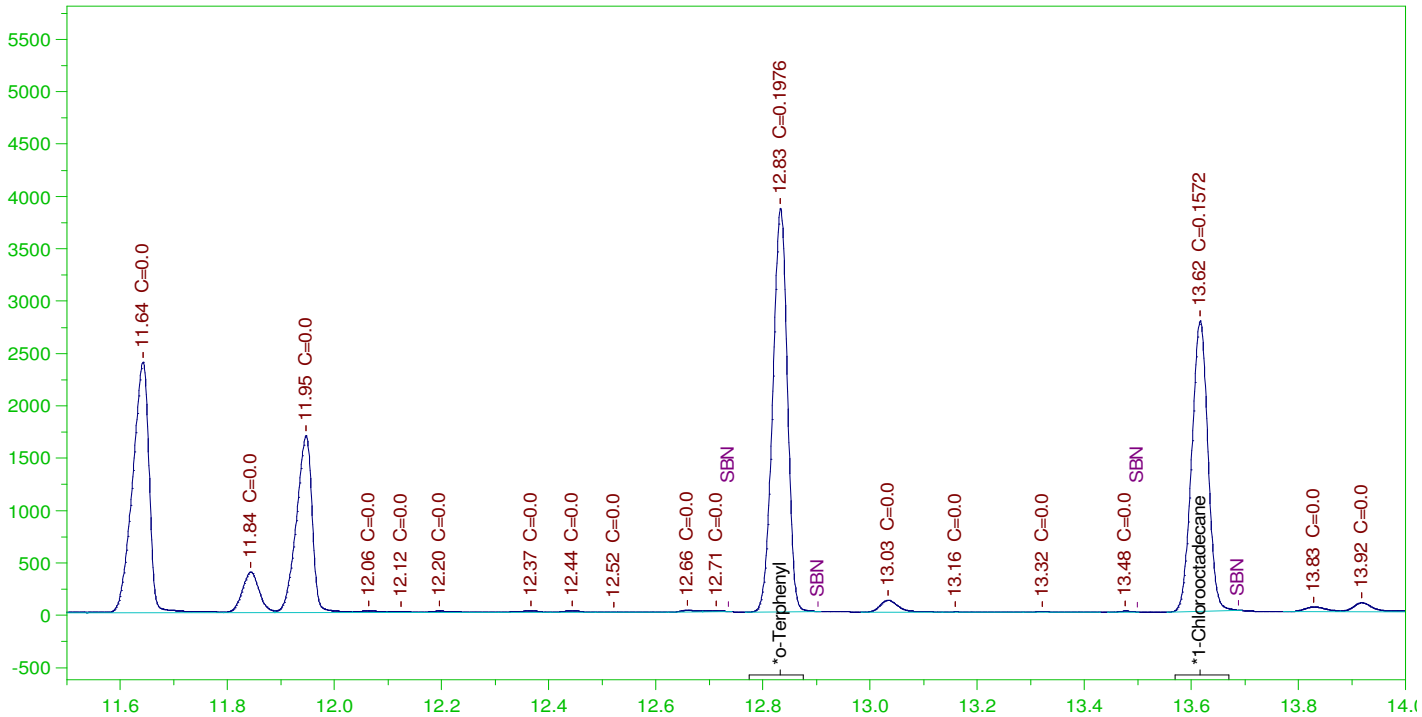
~~RRO~~ Oil Range(C24-C40)Area:7340821 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.2437819

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\078_B21100166-008A_D3_OIL-S-AHb-L%.xls

**ERH1770 (OWDFMW01)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW B21100166-008A ;1004HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-008A ;1004HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0078.RAW
Date & Time Acquired: 10/6/2021 10:30:44 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | .19 | .198 | 104.23 | - |
| *1-Chlorooctadecane | 13.616 | .19 | .157 | 82.94 | - |

DRO Area:1.247965E+07 DRO Amount: 0.4015658
TEH Area:1.440706E+07 TEH Amount: 0.4635853

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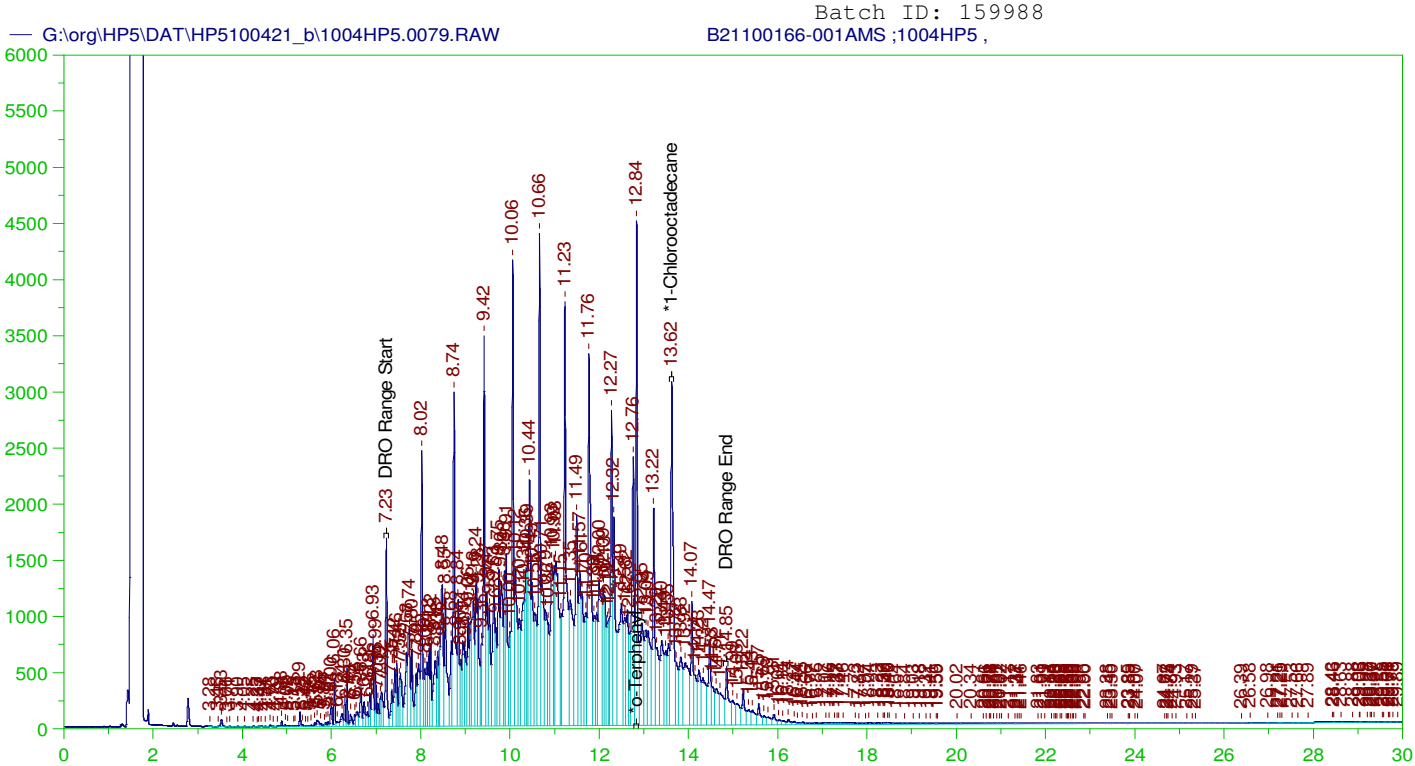
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMS ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0079.RAW
Date & Time Acquired: 10/6/2021 11:22:01 PM
Method File: G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.837 | .392 | .651 | 166.04 | - |
| *1-Chlorooctadecane | 13.621 | .392 | .649 | 165.44 | - |

DRO (C10-C24)Area:3.986681E+08 DRO (C10-C24)Amount: 26.53676
TEH Area:4.245689E+08 TEH Amount: 28.26081

AMN 10/17/2021

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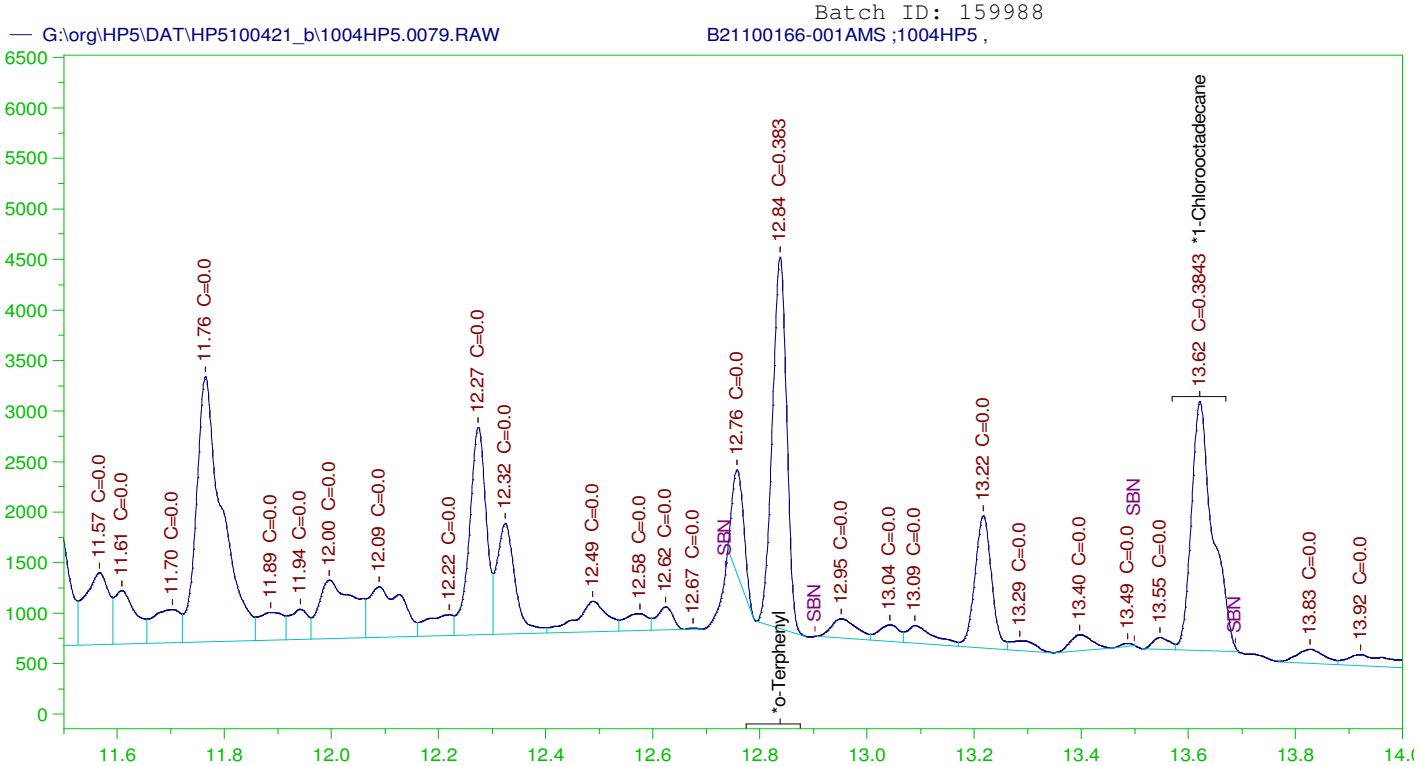
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

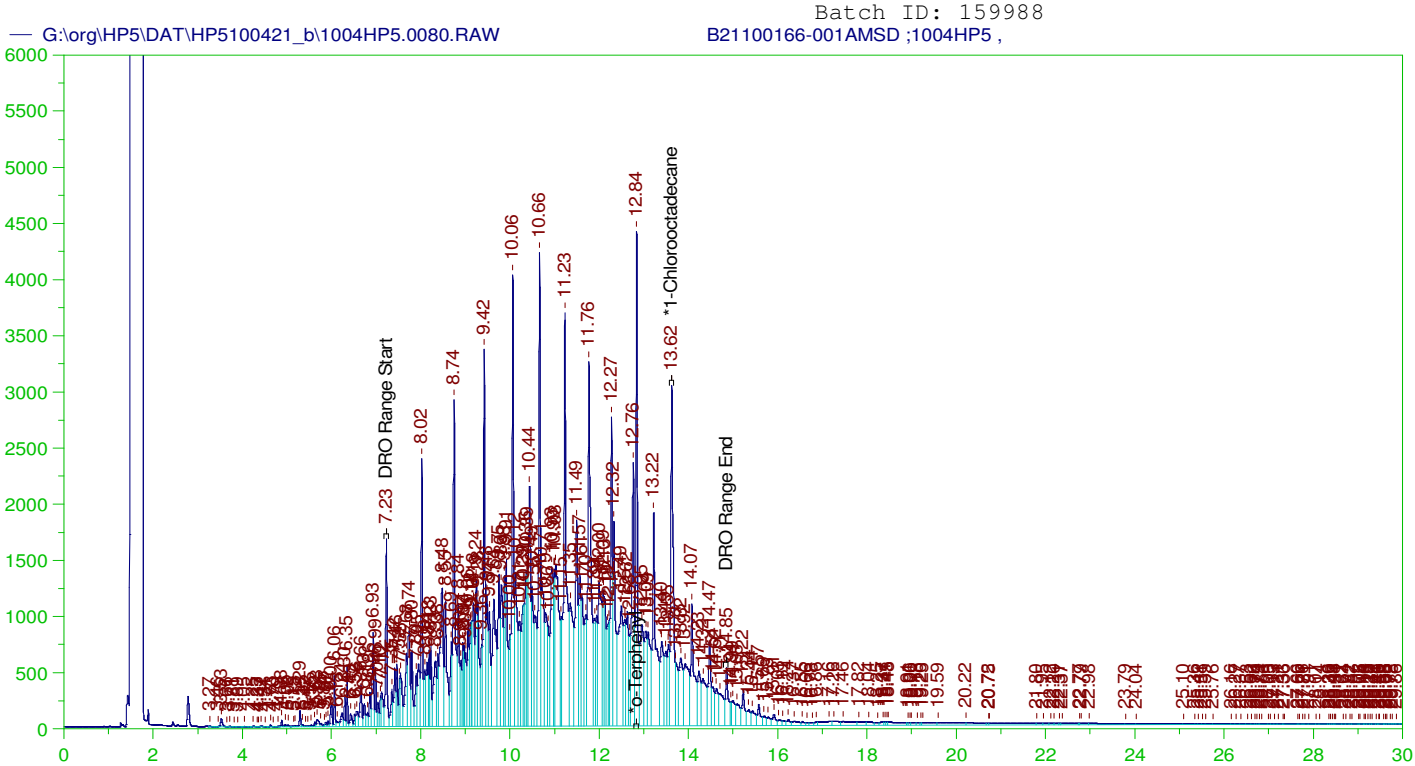
Sample Name: B21100166-001AMS ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0079.RAW
Date & Time Acquired: 10/6/2021 11:22:01 PM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.837 | .392 | .383 | 97.66 | - |
| *1-Chlorooctadecane | 13.621 | .392 | .384 | 98. | - |

DRO Area:1.96565E+08 DRO Amount: 13.08406
TEH Area:2.082249E+08 TEH Amount: 13.86019

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMSD ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0080.RAW
Date & Time Acquired: 10/7/2021 12:12:09 AM
Method File: G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | .392 | .647 | 164.98 | - |
| *1-Chlorooctadecane | 13.621 | .392 | .645 | 164.37 | - |

DRO (C10-C24)Area:3.93064E+08 DRO (C10-C24)Amount: 26.16373
TEH Area:4.271313E+08 TEH Amount: 28.43137

AMN 10/17/2021

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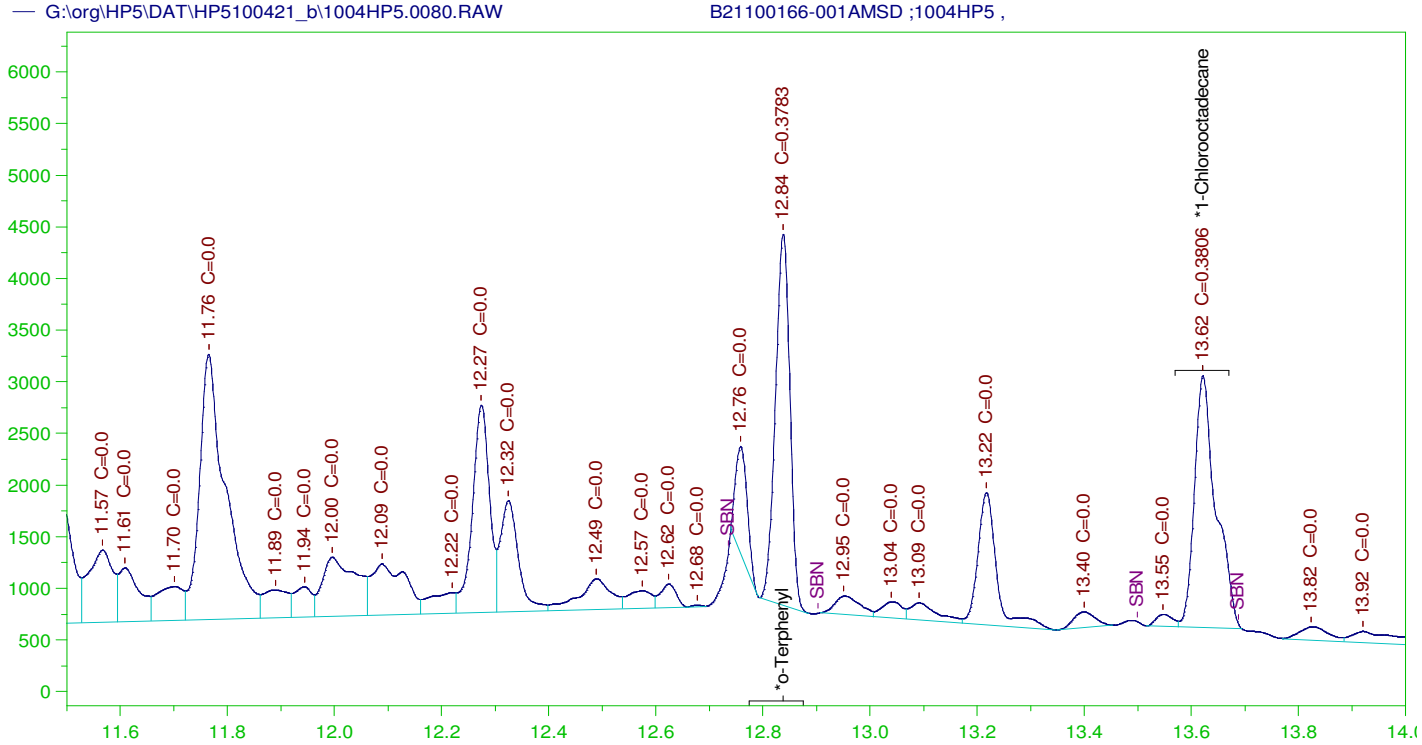
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMSD ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0080.RAW
Date & Time Acquired: 10/7/2021 12:12:09 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | .392 | .378 | 96.46 | - |
| *1-Chlorooctadecane | 13.621 | .392 | .381 | 97.05 | - |

DRO Area:1.928768E+08 DRO Amount: 12.83856
TEH Area:2.052058E+08 TEH Amount: 13.65923

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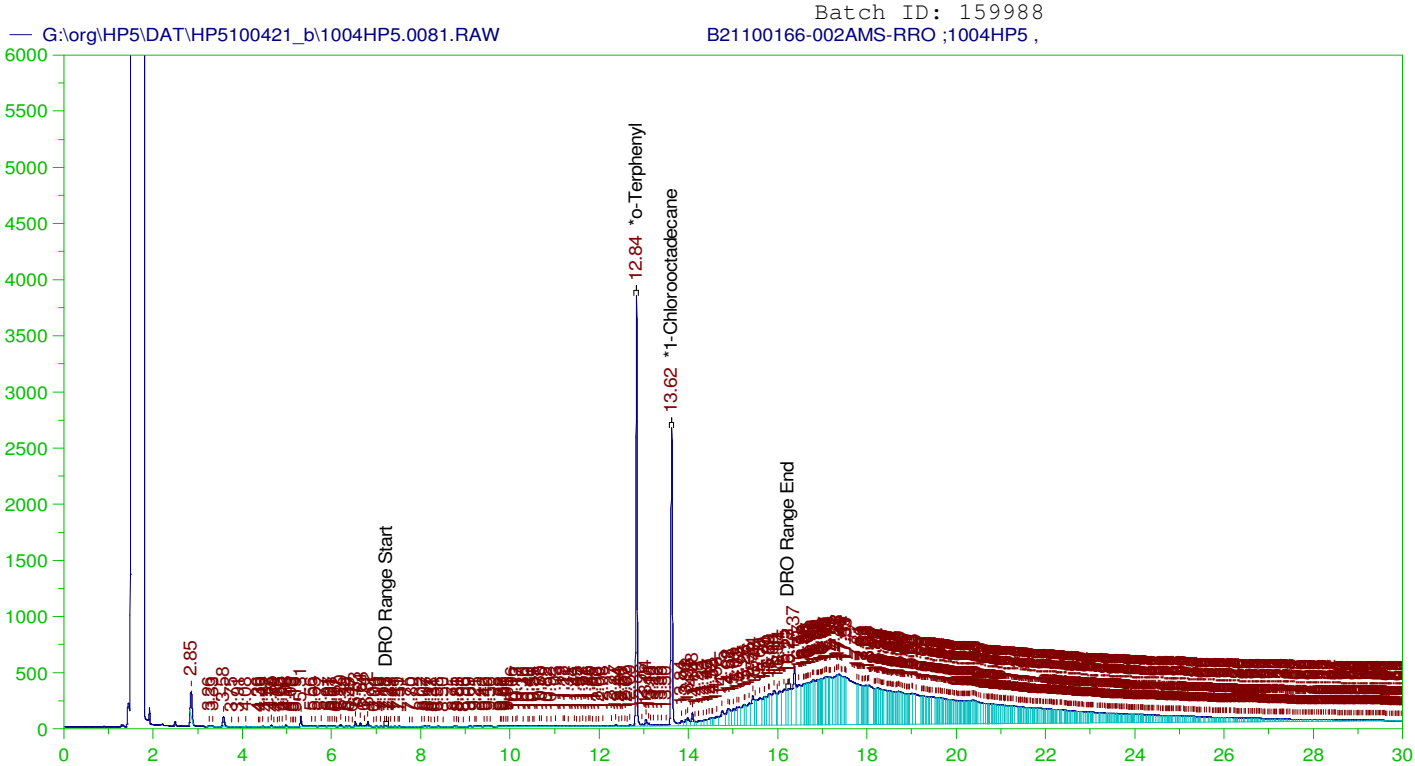
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMS-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0081.RAW
Date & Time Acquired: 10/7/2021 1:04:52 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.835 | .381 | .407 | 106.96 | - |
| *1-Chlorooctadecane | 13.62 | .381 | .324 | 85.11 | - |

DRO Area:2.506631E+07 DRO Amount: 1.672786
TEH (Oil Range)Area:1.411963E+08 TEH (Oil Range)Amount: 9.422656

AMN 10/17/2021

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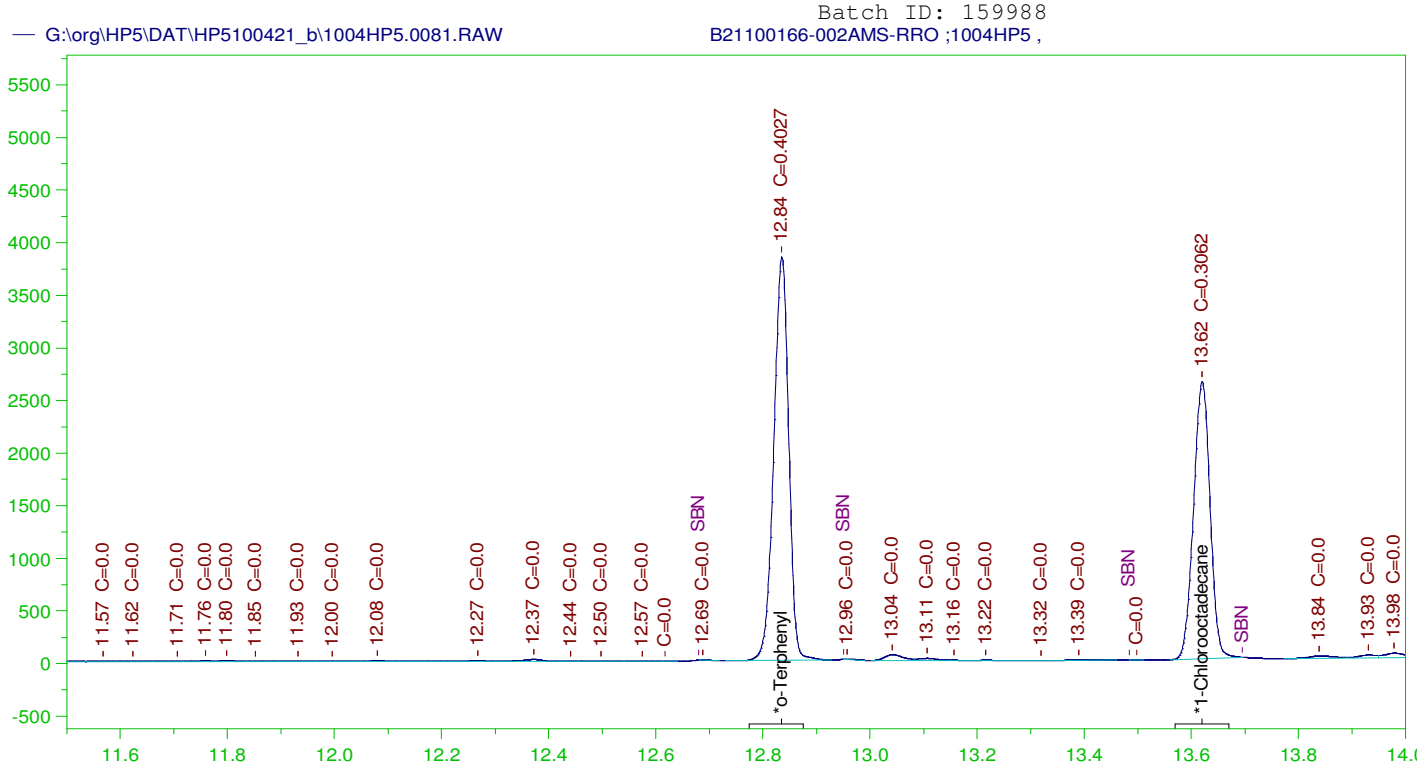
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMS-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0081.RAW
Date & Time Acquired: 10/7/2021 1:04:52 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.835 | .381 | .403 | 105.72 | - |
| *1-Chlorooctadecane | 13.62 | .381 | .306 | 80.38 | - |

DRO Area:2375563 DRO Amount: 0.1585319
TEH Area:4557417 TEH Amount: 0.3041367

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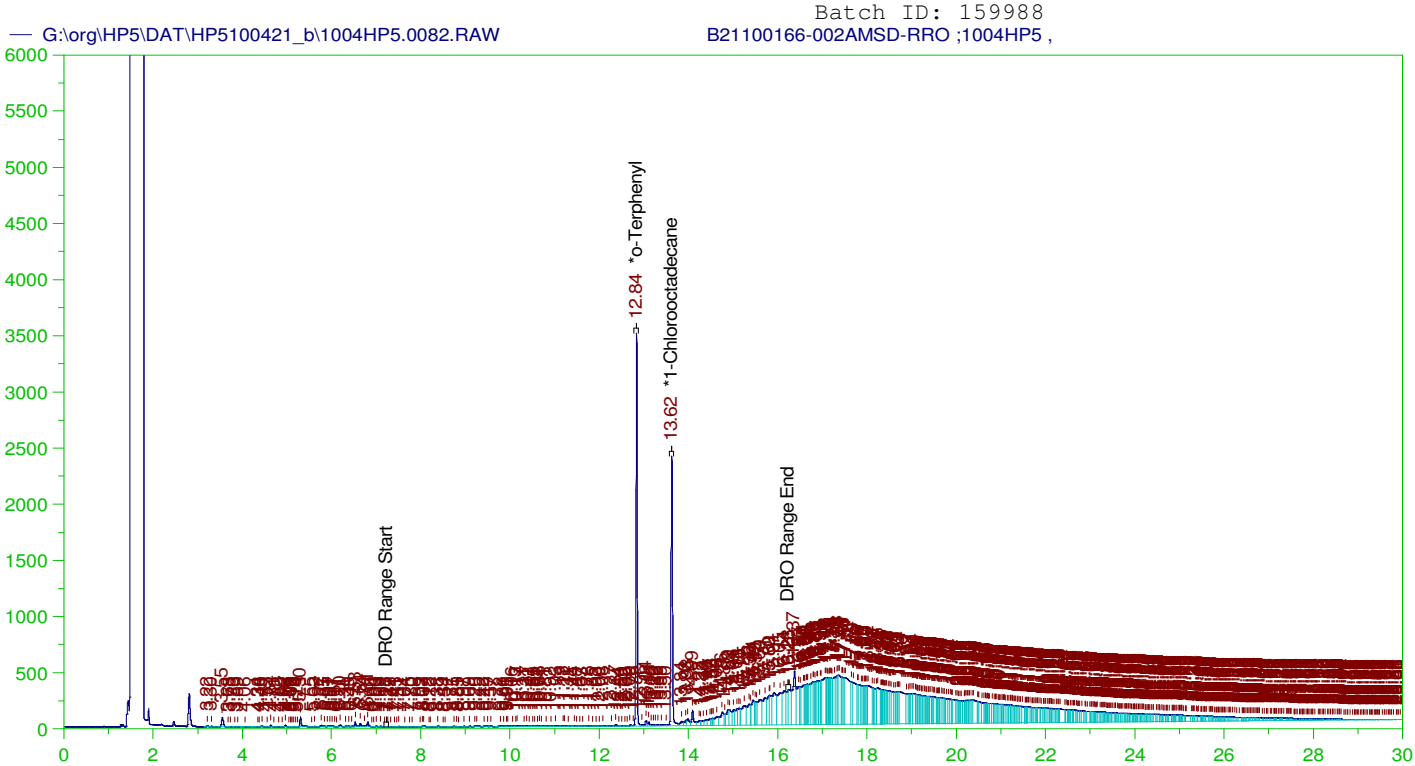
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMSD-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0082.RAW
Date & Time Acquired: 10/7/2021 1:56:56 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | .381 | .366 | 96.19 | - |
| *1-Chlorooctadecane | 13.621 | .381 | .29 | 76.15 | - |

DRO Area:2.358279E+07 DRO Amount: 1.573784
TEH (Oil Range)Area:1.377793E+08 TEH (Oil Range)Amount: 9.194623

AMN 10/17/2021

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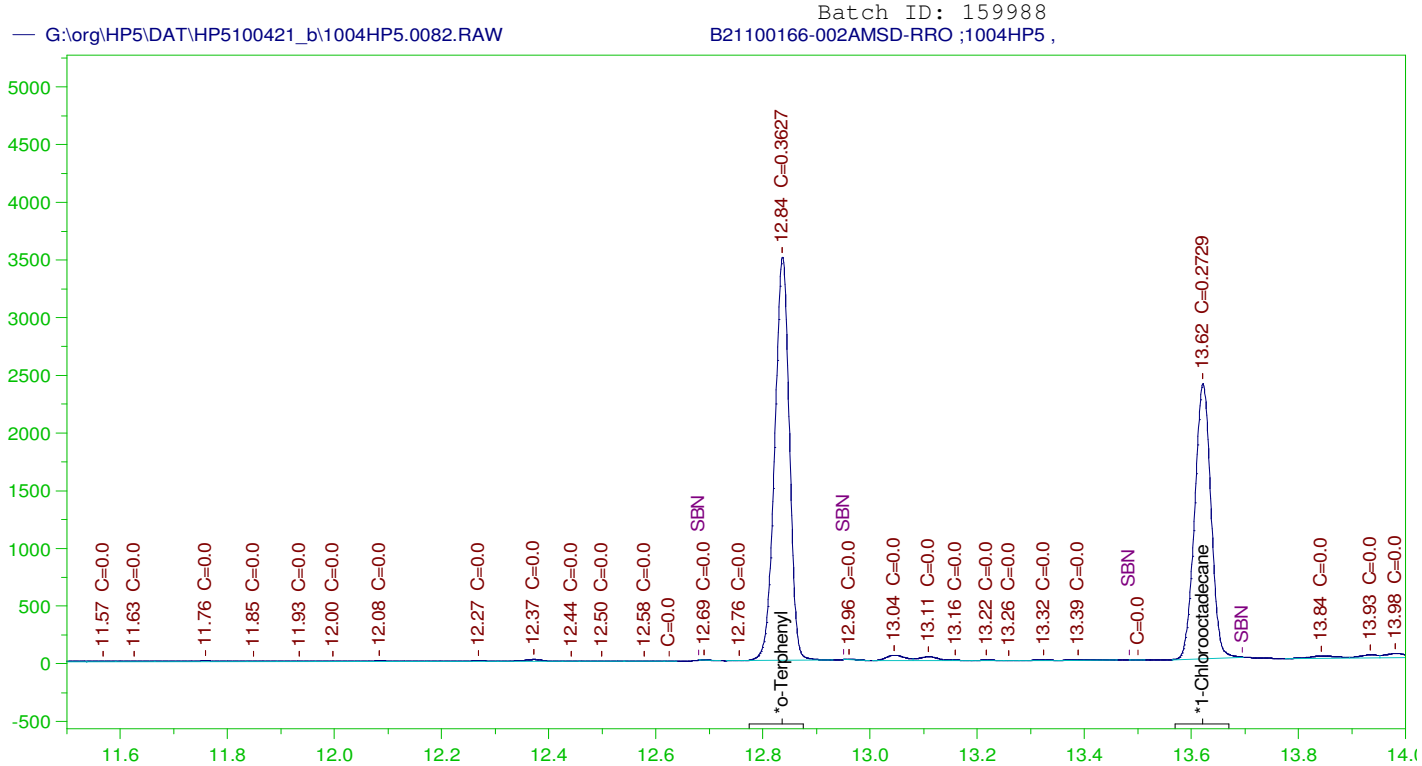
Batch ID: 159988



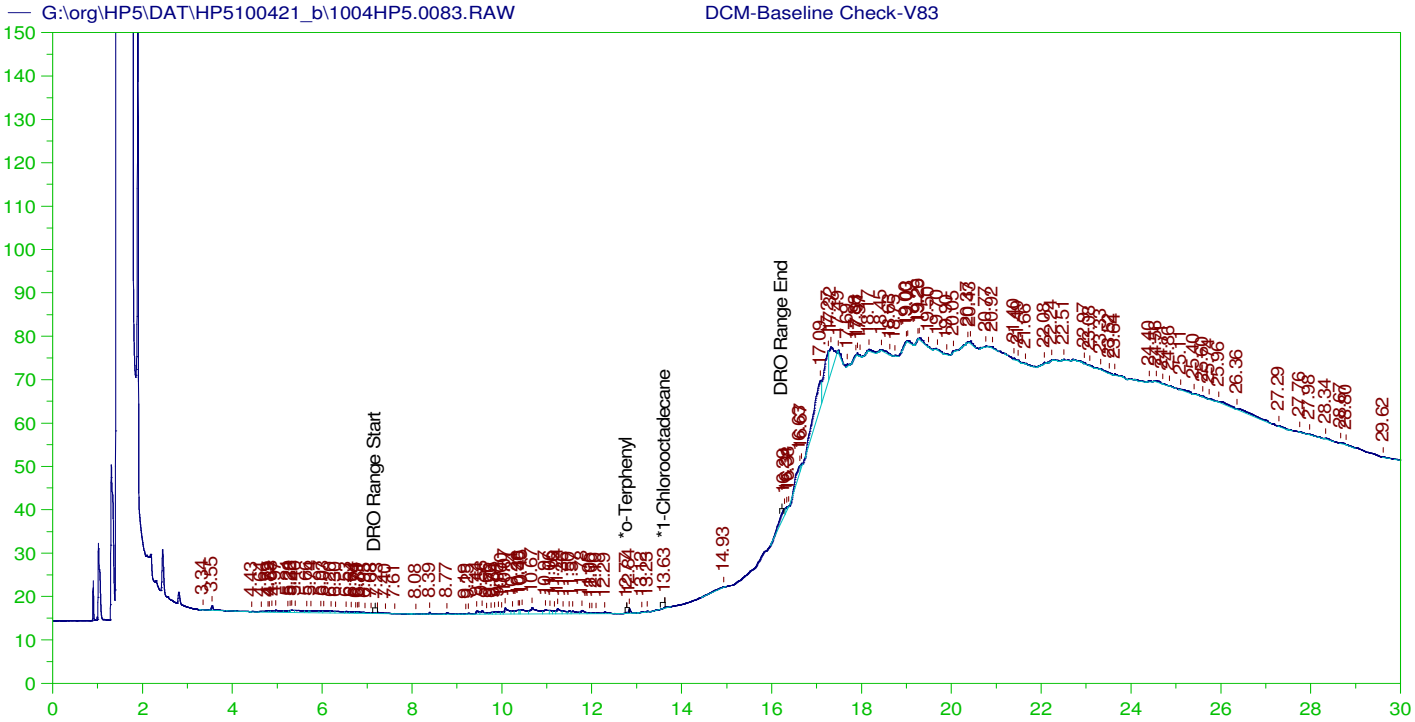

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMSD-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0082.RAW
Date & Time Acquired: 10/7/2021 1:56:56 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | .381 | .363 | 95.21 | - |
| *1-Chlorooctadecane | 13.621 | .381 | .273 | 71.64 | - |

DRO Area:2137361 DRO Amount: 0.1426356
TEH Area:4122223 TEH Amount: 0.2750943




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V83
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0083.RAW
Date & Time Acquired: 10/7/2021 2:47:14 AM
Method File: G:\Org\HP5\Methods\DR_8015-HP-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HP.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.125 to 16.28

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.773 | 200. | .018 | .01 | - |
| *1-Chlorooctadecane | 13.628 | 200. | .038 | .02 | - |

DRO Area:121992.4 DRO Amount: 4.141324
TEH Area:508706.9 TEH Amount: 17.26928

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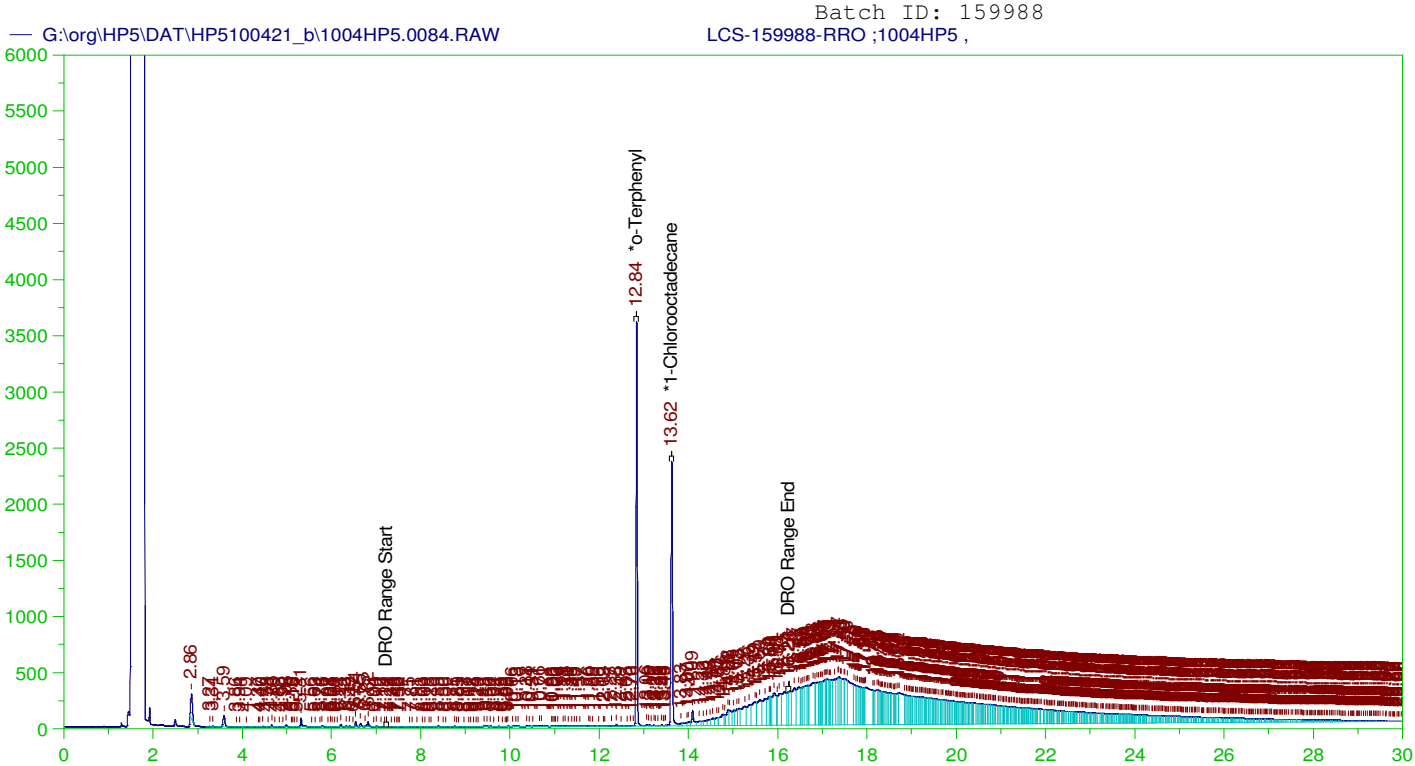
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0084.RAW
Date & Time Acquired: 10/7/2021 3:38:40 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | .2 | .199 | 99.47 | - |
| *1-Chlorooctadecane | 13.622 | .2 | .151 | 75.41 | - |

DRO Area:2.286384E+07 DRO Amount: 0.8010481
TEH (Oil Range)Area:1.34571E+08 TEH (Oil Range)Amount: 4.714775

AMN 10/17/2021

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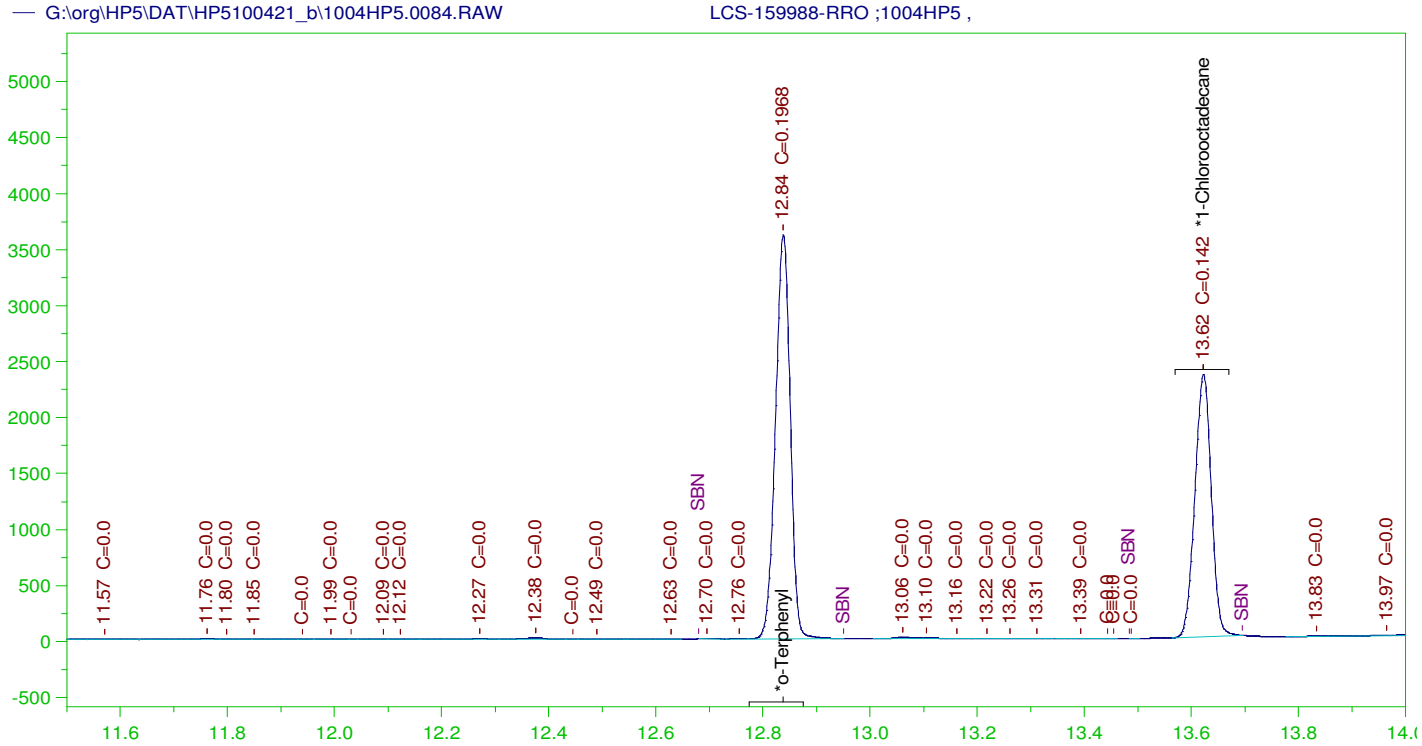
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

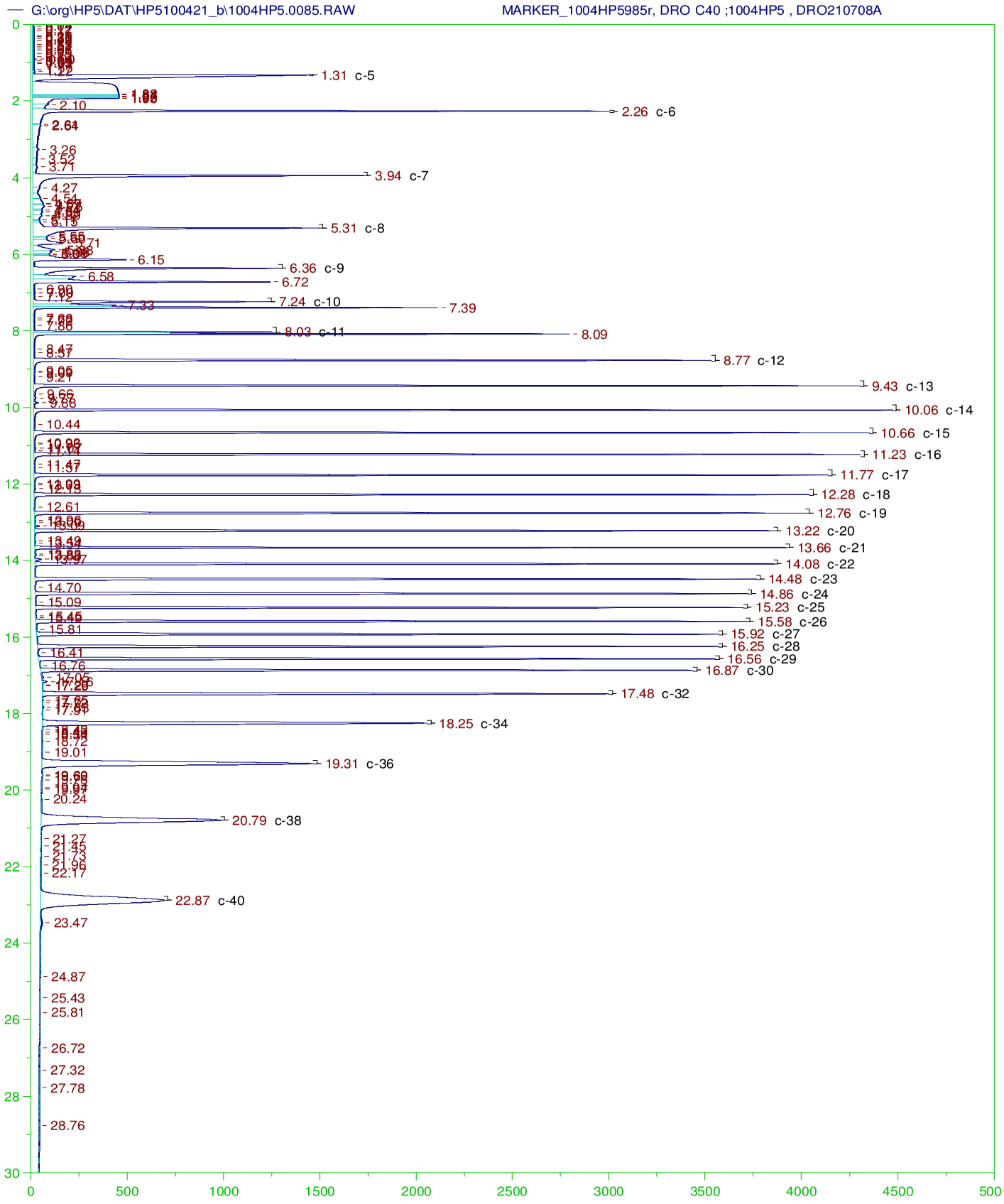
Sample Name: LCS-159988-RRO ;1004HP5 ,
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0084.RAW
Date & Time Acquired: 10/7/2021 3:38:40 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

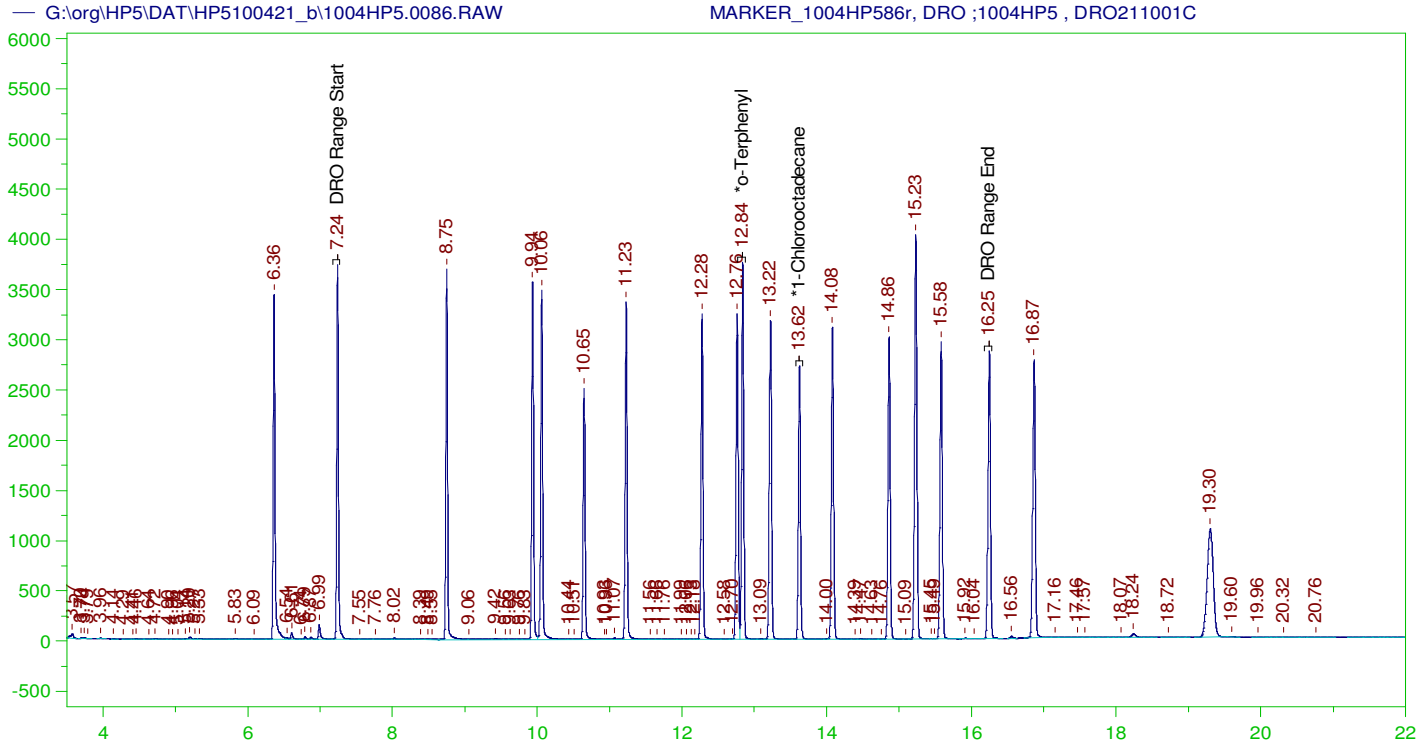
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | .2 | .197 | 98.39 | - |
| *1-Chlorooctadecane | 13.622 | .2 | .142 | 71. | - |

DRO Area:1717342 DRO Amount: 6.016807E-02
TEH Area:3913887 TEH Amount: 0.1371253

G:\org\HP5\dat\HP5100421_b\Review\Og\084_LCS-159988-RRO_DS_OIL-AHb-L#.xls




G:\org\HP5\dat\HP5100421_b\Review\Og\085_MARKER_1004HP5985r_CSC211004b.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

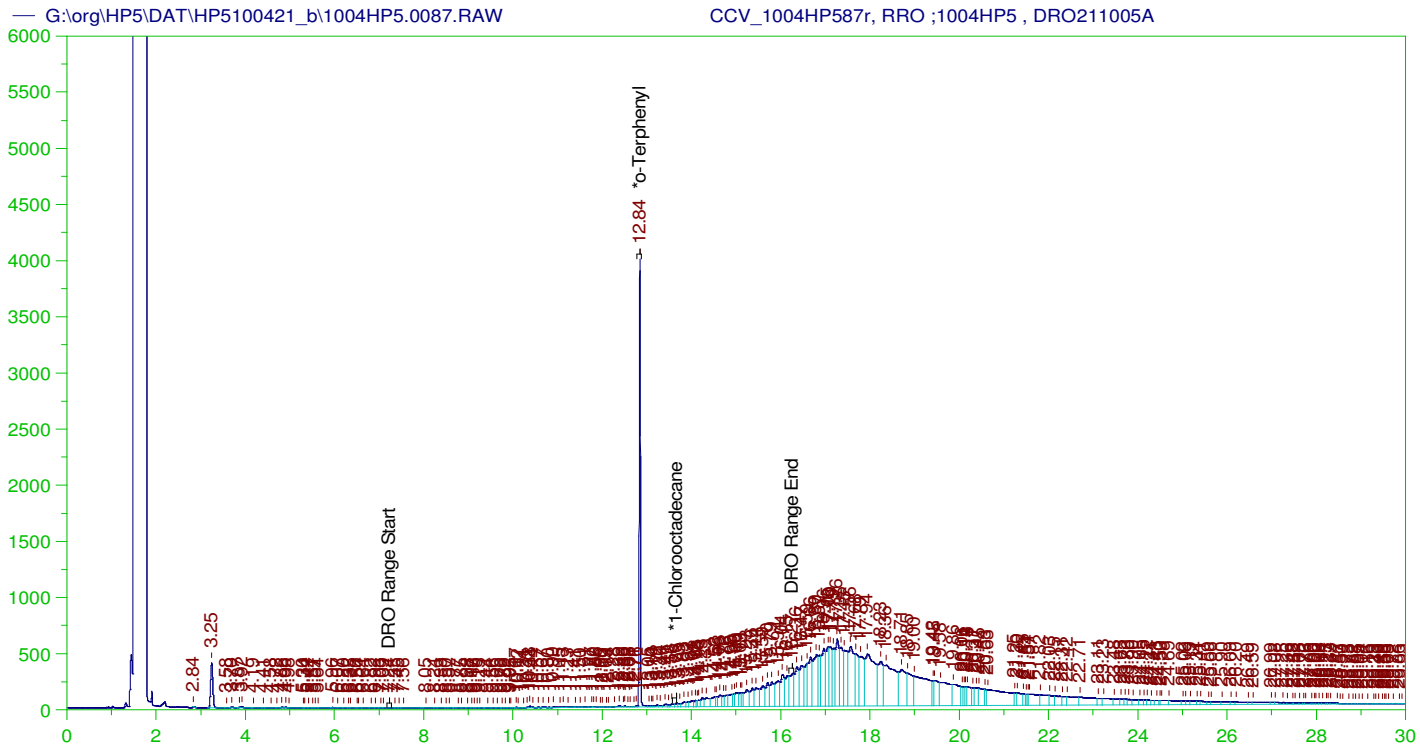
Sample Name: MARKER_1004HP586r, DRO ;1004HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0086.RAW
Date & Time Acquired: 10/7/2021 5:23:42 AM
Method File: G:\Org\HP5\Methods\DC_8015-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.84 | .2 | .204 | 102.05 | - |
| *1-Chlorooctadecane | 13.624 | .2 | .164 | 82.24 | - |

DRO Area:9.292078E+07 DRO Amount: 3.154419
TEH Area:1.1872E+08 TEH Amount: 4.030235

G:\org\HP5\dat\HP5100421_b\Review\Og\086_MARKER_1004HP586r_DC_8015-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP587r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0087.RAW
Date & Time Acquired: 10/7/2021 6:15:33 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AHb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 222.122 | 111.06 | - |
| *1-Chlorooctadecane | 13.661 | 200. | 4.013 | 2.01 | - |

DRO Area:2.195592E+07 DRO Amount: 769.2385
TEH (Oil Range) Area:1.32489E+08 TEH (Oil Range)Amount: 4641.83

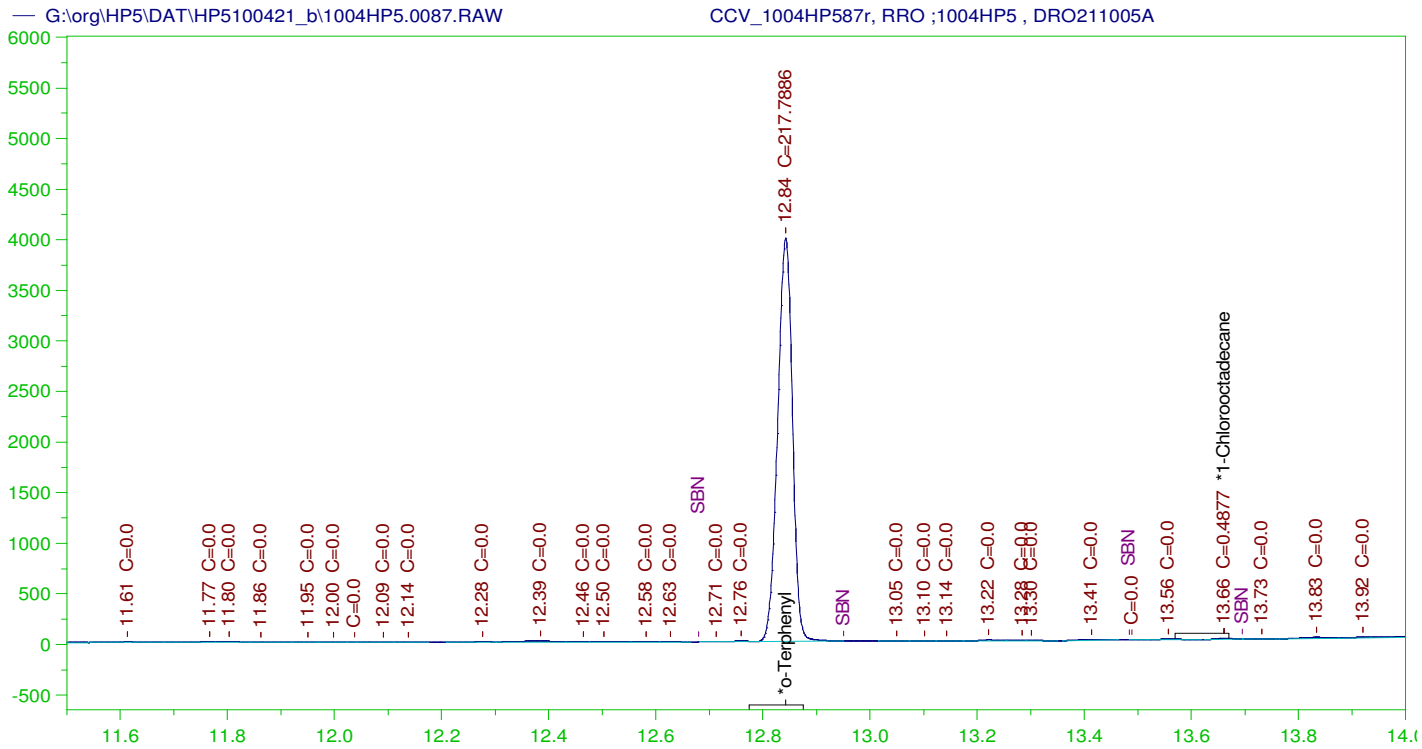
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0087.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4641.83 | 92.84 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 222.122 | 111.06 | 85-115 |
| *1-Chlorooctadecane | 13.661 | 200. | 4.013 | 2.01 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\087_CCV_1004HP587r_DC_OIL-AHb-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP587r, RRO ;1004HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0087.RAW
Date & Time Acquired: 10/7/2021 6:15:33 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AHb-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AHb.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 217.789 | 108.89 | - |
| *1-Chlorooctadecane | 13.661 | 200. | .488 | .24 | - |

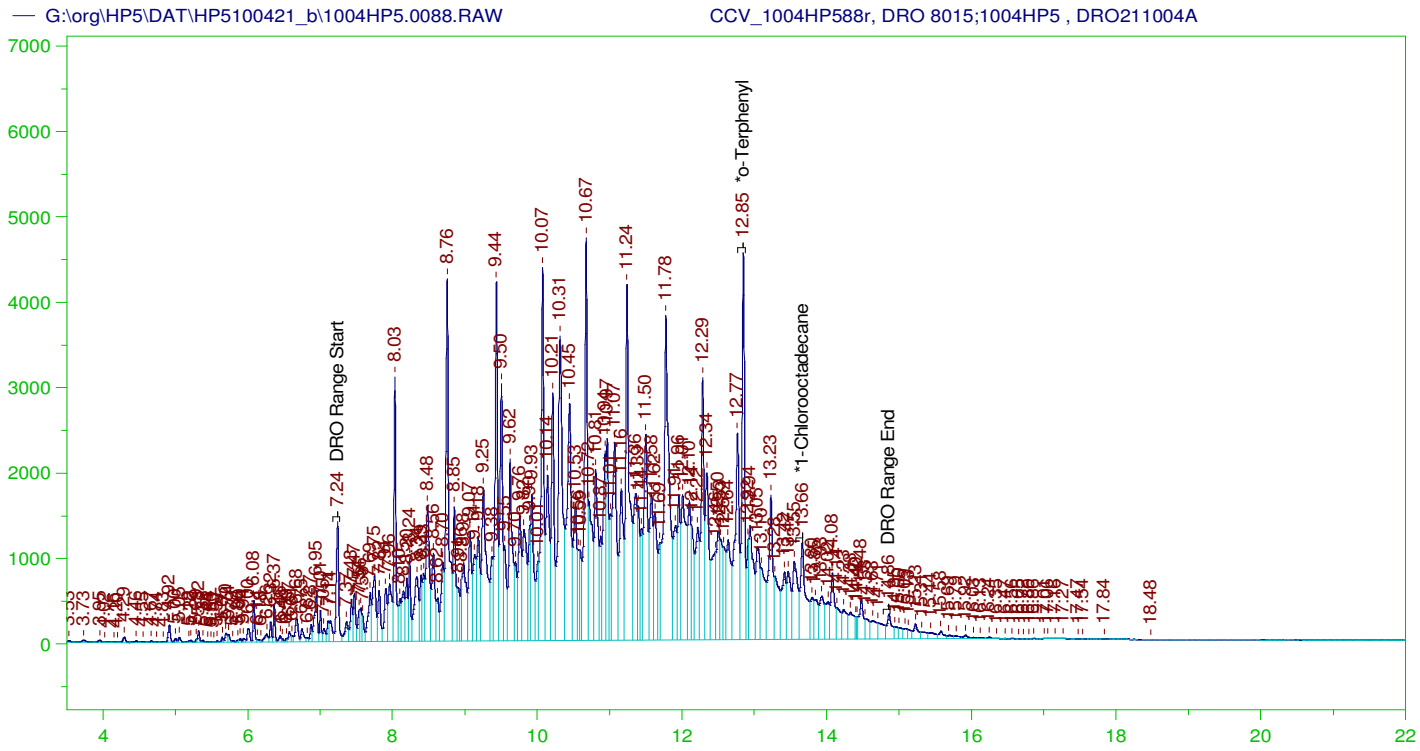
DRO Area:1544737 DRO Amount: 54.12078
TEH Area:3199932 TEH Amount: 112.1115

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0087.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 112.11 | 2.24 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 217.789 | 108.89 | 85-115 |
| *1-Chlorooctadecane | 13.661 | 200. | .488 | .24 | 85-115 |

G:\org\HP5\dat\HP5100421_b\Review\Og\087_CCV_1004HP587r_DS_OIL-AHb-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP588r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0088.RAW
Date & Time Acquired: 10/7/2021 7:02:45 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.175 to 14.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.849 | 200. | 329.188 | 164.59 | - |
| *1-Chlorooctadecane | 13.663 | 200. | 160.72 | 80.36 | - |

DRO (C10-C24)Area:4.656713E+08 DRO (C10-C24)Amount: 15808.33
TEH Area:4.816842E+08 TEH Amount: 16351.93

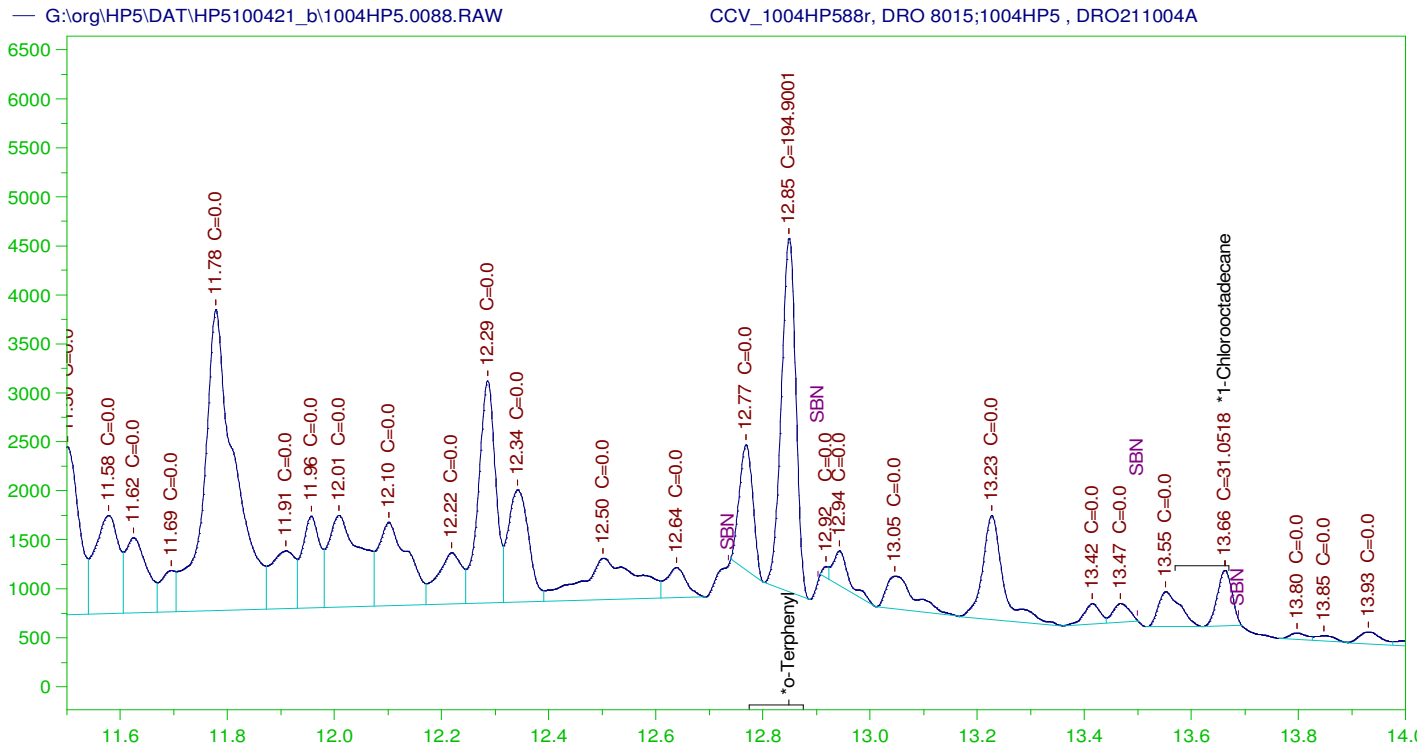
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0088.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16351.93 | 109.01 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.849 | 200. | 329.188 | 164.59 | 85-115 |
| *1-Chlorooctadecane | 13.663 | 200. | 160.72 | 80.36 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100421_b\Review\Og\088_CCV_1004HP588r_DC_8015-C24-HPa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1004HP588r, DRO 8015;1004HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100421_b\1004HP5.0088.RAW
Date & Time Acquired: 10/7/2021 7:02:45 AM
Method File: G:\Org\HP5\Methods\DS_8015-HPa-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HPa.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.175 to 16.285

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.849 | 200. | 194.9 | 97.45 | - |
| *1-Chlorooctadecane | 13.663 | 200. | 31.052 | 15.53 | - |

DRO Area:2.608001E+08 DRO Amount: 8853.488
TEH Area:2.710377E+08 TEH Amount: 9201.027

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100421_b\1004HP5.0088.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9201.03 | 61.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.849 | 200. | 194.9 | 97.45 | 85-115 |
| *1-Chlorooctadecane | 13.663 | 200. | 31.052 | 15.53 | 85-115 |

G:\org\HP5\dat\HP5100421_b\Review\Og\088_CCV_1004HP588r_DS_8015-HPa-L#.xls

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5100421_b\1004HP5.45r | MARKER_1004HP545r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.46r | MARKER_1004HP546r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.47r | CCV_1004HP547r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.48r | CCV_1004HP548r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.54r | DCM-Baseline Check-V54 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.55r | LCS-159988 ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10045-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.68. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.56r | MB-159988 ;1004HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.57r | B21100171-001A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1060 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.58r | B21100166-001A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET | 1010 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.59r | MARKER_1004HP559r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.60r | MARKER_1004HP560r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.61r | CCV_1004HP561r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.62r | CCV_1004HP562r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.64r | B21100166-005A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.65r | B21100166-002A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.66r | B21100166-003A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-100466-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-100466-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.47. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.67r | B21100166-004A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.68r | B21100166-006A ;1004HP5 , $HC-8015-DRO-W, Need RR possible carry over | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1030 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.69r | DCM-Baseline Check-V69 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.70r | B21100166-006A ;1004HP5 , $HC-8015-DRO-W, RR | G:\Org\HP5\Methods\D3_8015-100470-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-100470-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 23.16. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.71r | B21100166-007A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.72r | MARKER_1004HP572r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.73r | MARKER_1004HP573r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.74r | CCV_1004HP574r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.20 15:34:39 -06:00

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5100421_b\1004HP5.75r | CCV_1004HP575r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.76r | DCM-Baseline Check-V76 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.78r | B21100166-008A ;1004HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.79r | B21100166-001AMS ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 510 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.80r | B21100166-001AMSD ;1004HP5 , | G:\Org\HP5\Methods\D3_8015-10079-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 510 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.81r | B21100166-002AMS-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.82r | B21100166-002AMSD-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.83r | DCM-Baseline Check-V83 | G:\Org\HP5\Methods\DR_8015-HP-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.84r | LCS-159988-RRO ;1004HP5 , | G:\Org\HP5\Methods\D3_OIL-AHb-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0 |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.85r | MARKER_1004HP5985r, DRO C40 ;1004HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211004b.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.86r | MARKER_1004HP586r, DRO ;1004HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HPa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.87r | CCV_1004HP587r, RRO ;1004HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AHb-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AHb-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.95 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100421_b\1004HP5.88r | CCV_1004HP588r, DRO 8015;1004HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HPa-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24-HPa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.91 and scaling showing surrogate peak from 11.5-14. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.20 15:35:02 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*17-Oct-21*

**Run ID** GCFID-HP5-B_211007B

**Run Start Date:** 10/7/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754205 | MARKER_1007 | HC-8015-DRO- | SAMP | | 10/7/2021 9:12:1 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.192899 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.928679 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2063467 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.192899 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754206 | CCV_1007HP51 | HC-8015-DRO- | CCV | | 10/7/2021 10:03: | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.506061 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 90% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2147909 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754207 | CCV_1007HP51 | HC-8015-DRO- | CCV | | 10/7/2021 10:54: | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.10979 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 107% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.66495 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 111% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.196958 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754208 | LCS-159988 | HC-8015-DRO- | LCS-DOD | | 10/8/2021 3:17:5 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 14.60057 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 97% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 15.59838 | | 15 | 0 | 0 | 0.0329 | 0.3 | 0 | 104% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.2080822 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754209 | MB-159988 | HC-8015-DRO- | MBLK | | 10/8/2021 4:10:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0.03565848 | | 0 | 0 | 0 | 0.0329 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.2006044 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754210 | B21100166-001 | HC-8015-DRO- | SAMP | | 10/8/2021 5:03:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038511 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.032571 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1713373 | | 0.198 | 0 | 0 | 0.0004247 | 0.00198 | 0 | 87% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754211 | B21100166-002 | HC-8015-DRO- | SAMP | | 10/8/2021 5:55:2 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754211 | B21100166-002 | HC-8015-DRO- | SAMP | | 10/8/2021 5:55:2 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0316498 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1799599 | | 0.1924 | 0 | 0 | 0.0004127 | 0.001924 | 0 | 94% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754212 | B21100166-005 | HC-8015-DRO- | SAMP | | 10/8/2021 6:43:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0377719 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0319459 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.118378 | | 0.1942 | 0 | 0 | 0.0004166 | 0.001942 | 0 | 61% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754213 | MARKER_1007 | HC-8015-DRO- | SAMP | | 10/8/2021 8:16:0 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.229403 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.121 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2086719 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.229403 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754214 | CCV_1007HP53 | HC-8015-DRO- | CCV | | 10/8/2021 9:02:4 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.598383 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 92% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2202429 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754215 | CCV_1007HP53 | HC-8015-DRO- | CCV | | 10/8/2021 9:50:2 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754215 | CCV_1007HP53 | HC-8015-DRO- | CCV | | 10/8/2021 9:50:2 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.27889 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 109% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.83613 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 112% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1988421 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754216 | B21100166-003 | HC-8015-DRO- | SAMP | | 10/8/2021 11:27: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0316498 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1813831 | | 0.1924 | 0 | 0 | 0.0004127 | 0.001924 | 0 | 94% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754217 | B21100166-004 | HC-8015-DRO- | SAMP | | 10/8/2021 12:16: | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.032242 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1294802 | | 0.196 | 0 | 0 | 0.0004204 | 0.00196 | 0 | 66% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754218 | B21100166-006 | HC-8015-DRO- | SAMP | | 10/8/2021 1:02:3 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.032242 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1913944 | | 0.196 | 0 | 0 | 0.0004204 | 0.00196 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754219 | B21100166-007 | HC-8015-DRO- | SAMP | | 10/8/2021 1:49:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754219 | B21100166-007 | HC-8015-DRO- | SAMP | | 10/8/2021 1:49:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0316498 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1886431 | | 0.1924 | 0 | 0 | 0.0004127 | 0.001924 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14754220 | B21100166-008 | HC-8015-DRO- | SAMP | | 10/8/2021 2:37:0 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0311892 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1847952 | | 0.1896 | 0 | 0 | 0.0004067 | 0.001896 | 0 | 97% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758988 | B21100166-001 | HC-8015-DRO- | MS-DOD | | 10/8/2021 3:23:4 | 1 | 159988 | 10/4/2021 2: | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 28.05307 | | 29.4 | 0 | 0 | 0.076244 | 0.588 | 0 | 95% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 29.65329 | | 29.4 | 0 | 0 | 0.064484 | 0.588 | 0 | 101% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.4097888 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 105% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758989 | B21100166-001 | HC-8015-DRO- | MSD-DOD | | 10/8/2021 4:11:2 | 1 | 159988 | 10/4/2021 2: | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 25.67407 | | 29.4 | 0 | 28.05307 | 0.076244 | 0.588 | 0 | 87% | 36 | 132 | 9% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 27.18201 | | 29.4 | 0 | 29.65329 | 0.064484 | 0.588 | 0 | 92% | 60 | 132 | 9% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.380617 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 97% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758990 | LCS-159988-RR | HC-8015-DRO- | LCS | | 10/8/2021 5:03:5 | 1 | 159988 | 10/4/2021 2: | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 4.661633 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 93% | 60 | 140 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.201302 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 101% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758991 | MARKER_1007 | HC-8015-DRO- | SAMP | | 10/8/2021 6:52:2 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.28293 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.090804 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2124181 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 106% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.28293 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758992 | CCV_1007HP53 | HC-8015-DRO- | CCV | | 10/8/2021 7:44:2 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.524891 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 90% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2167116 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 108% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758993 | CCV_1007HP53 | HC-8015-DRO- | CCV | | 10/8/2021 8:35:5 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.27889 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 109% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.71631 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 111% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1977916 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758994 | B21100166-002 | HC-8015-DRO- | MS-DOD | | 10/8/2021 10:22: | 1 | 159988 | 10/4/2021 2: | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 7.705797 | | 9.5 | 0 | 0 | 0.16701 | 0.57 | 0 | 81% | 41 | 113 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.3324047 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 87% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758995 | B21100166-002 | HC-8015-DRO- | MSD-DOD | | 10/8/2021 11:15: | 1 | 159988 | 10/4/2021 2: | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 9.393323 | | 9.5 | 0 | 7.705797 | 0.16701 | 0.57 | 0 | 99% | 41 | 113 | 20% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.3785233 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758996 | MARKER_1007 | HC-8015-DRO- | SAMP | | 10/9/2021 1:02:4 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.17509 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.932281 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2059444 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.17509 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

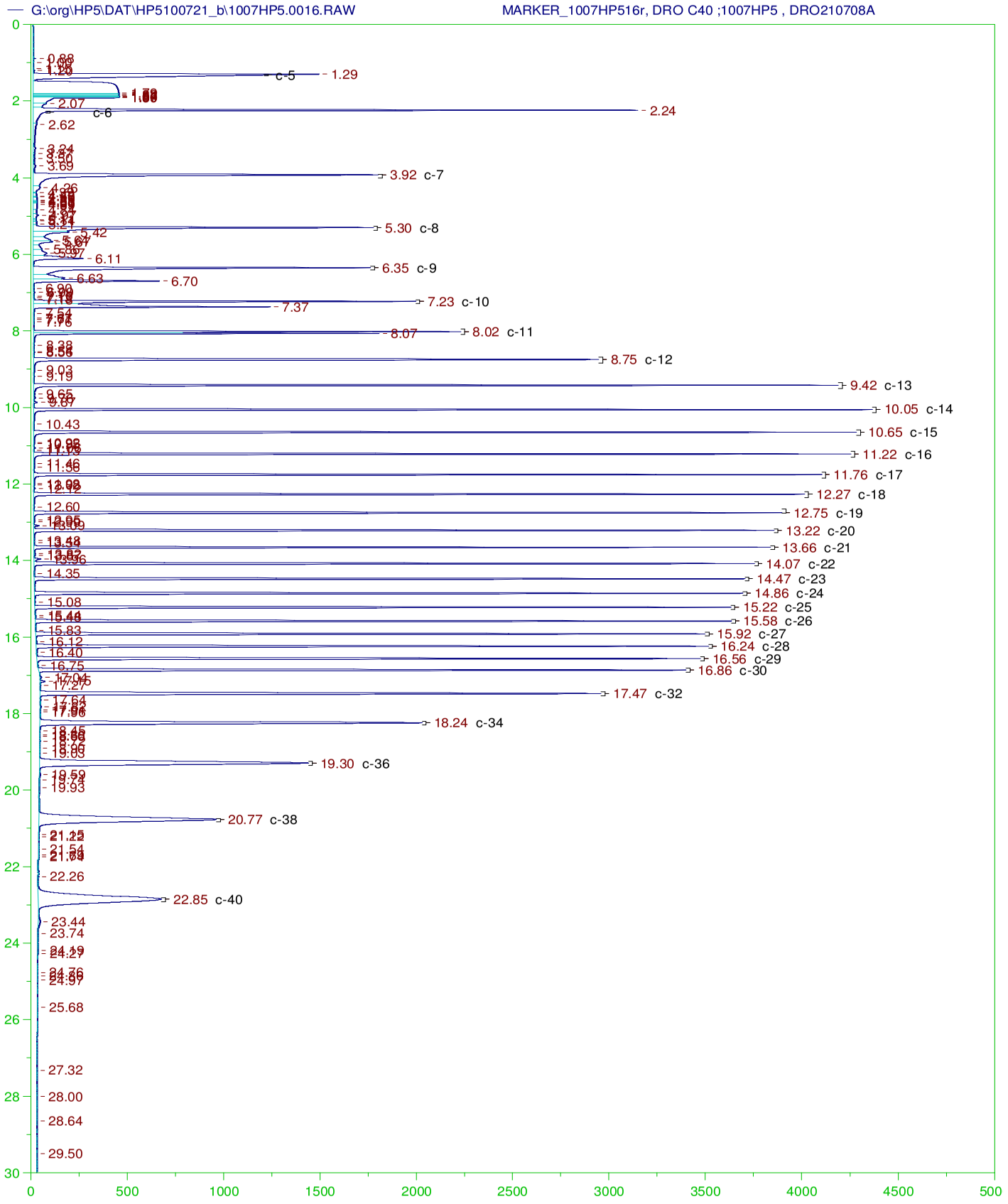
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758997 | CCV_1007HP55 | HC-8015-DRO- | CCV | | 10/9/2021 1:57:0 | 1 | R368362 | | 0 | 0 | |

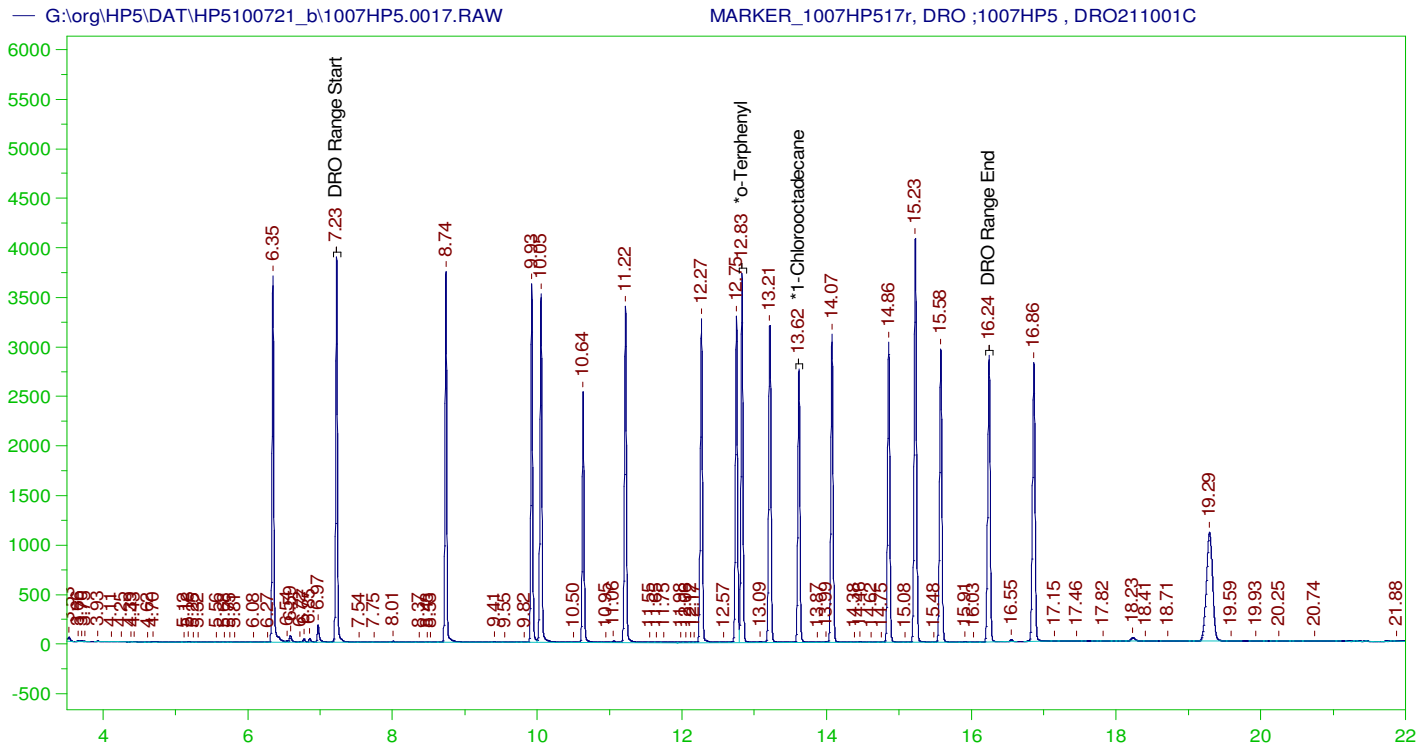
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.54287 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 91% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2201556 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14758998 | CCV_1007HP55 | HC-8015-DRO- | CCV | | 10/9/2021 2:50:3 | 1 | R368362 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.66379 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 104% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.20437 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 108% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1915942 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 96% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5100721_b\1007HP5.16r | MARKER_1007HP516r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.17r | MARKER_1007HP517r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.18r | CCV_1007HP518r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.19r | CCV_1007HP519r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.24r | LCS-159988 ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100724-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.25r | MB-159988 ;1007HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.26r | B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1010 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.27r | B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.28r | B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.29r | MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.30r | MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.31r | CCV_1007HP531r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.32r | CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.33r | DCM-Baseline Check-V33 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.34r | B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.35r | B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.36r | B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.37r | B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.38r | B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.39r | B21100166-001AMS ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 510 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.40r | B21100166-001AMSD ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 510 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.41r | LCS-159988-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.42r | MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.43r | MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.44r | CCV_1007HP531r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.45r | CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.46r | DCM-Baseline Check-V46 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.47r | B21100166-002AMS-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.48r | B21100166-002AMSD-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.49r | MARKER_1007HP549r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.50r | MARKER_1007HP550r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.51r | CCV_1007HP551r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.52r | CCV_1007HP552r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\org\HP5\DAT\HP5100721_b\1007HP5.0016.RAW
MARKER_1007HP516r, DRO C40 ;1007HP5 , DRO210708A
c-5
1.29
2.07
c-6
2.24
2.62
3.69
3.92 c-7
5.30 c-8
6.11
6.35 c-9
6.63
6.70
7.23 c-10
7.37
8.07
8.02 c-11
8.75 c-12
9.42 c-13
10.05 c-14
10.43
10.65 c-15
11.22 c-16
11.76 c-17
12.27 c-18
12.60
12.75 c-19
13.22 c-20
13.66 c-21
14.07 c-22
14.35
14.47 c-23
14.86 c-24
15.08
15.22 c-25
15.58 c-26
15.83
15.92 c-27
16.12
16.24 c-28
16.40
16.56 c-29
16.75
16.86 c-30
17.47 c-32
18.24 c-34
19.30 c-36
19.93
20.77 c-38
22.26
22.85 c-40
23.44
23.74
25.68
27.32
28.00
28.64
29.50
0
500
1000
1500
2000
2500
3000
3500
4000
4500
500




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

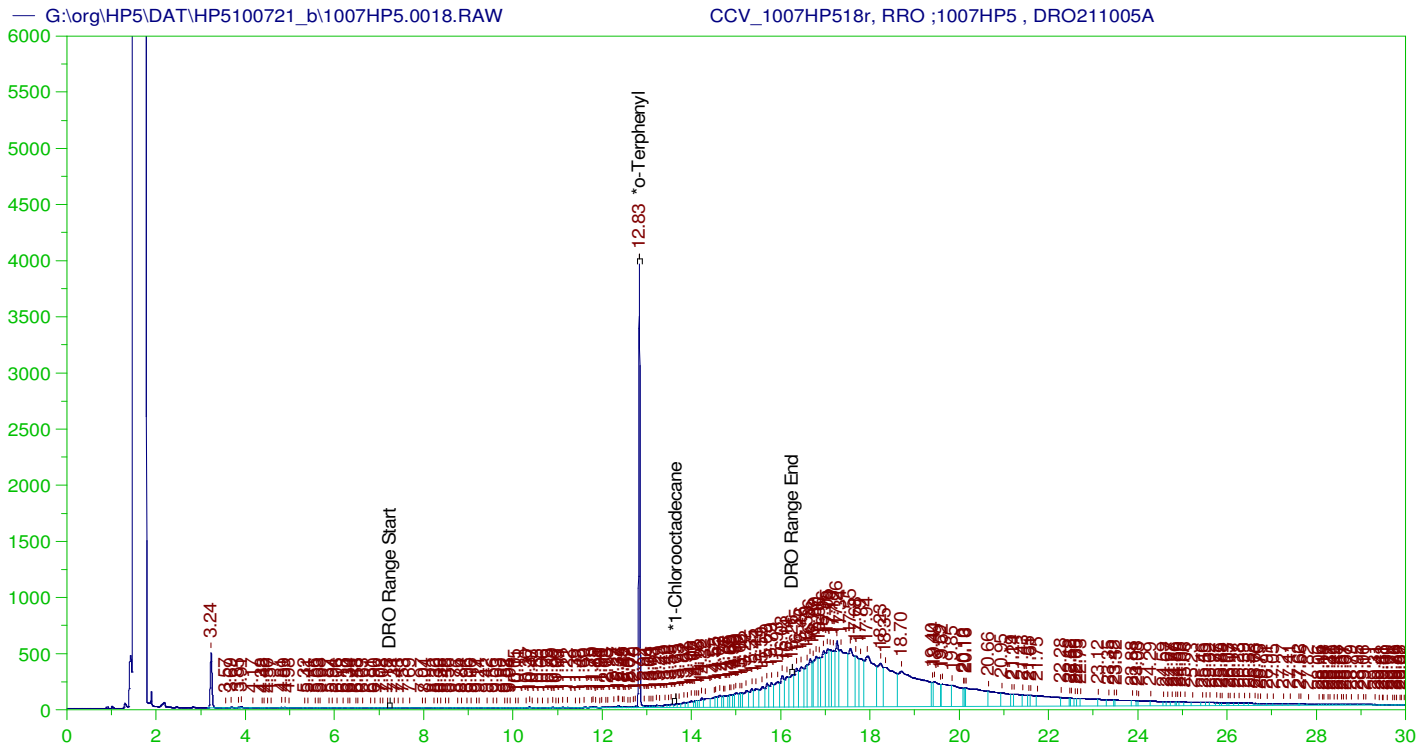
Sample Name: MARKER_1007HP517r, DRO ;1007HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0017.RAW
Date & Time Acquired: 10/7/2021 9:12:18 PM
Method File: G:\Org\HP5\Methods\DC_8015-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.83 | .2 | .206 | 103.17 | - |
| *1-Chlorooctadecane | 13.616 | .2 | .167 | 83.31 | - |

DRO Area:9.405427E+07 DRO Amount: 3.192899
TEH Area:1.157284E+08 TEH Amount: 3.928679

G:\org\HP5\dat\HP5100721_b\Review\017_MARKER_1007HP517r_DC_8015-HR-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP518r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0018.RAW
Date & Time Acquired: 10/7/2021 10:03:49 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AI-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | 217.648 | 108.82 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 4.019 | 2.01 | - |

DRO Area:2.19373E+07 DRO Amount: 768.5861
TEH (Oil Range)Area:1.286138E+08 TEH (Oil Range)Amount: 4506.061

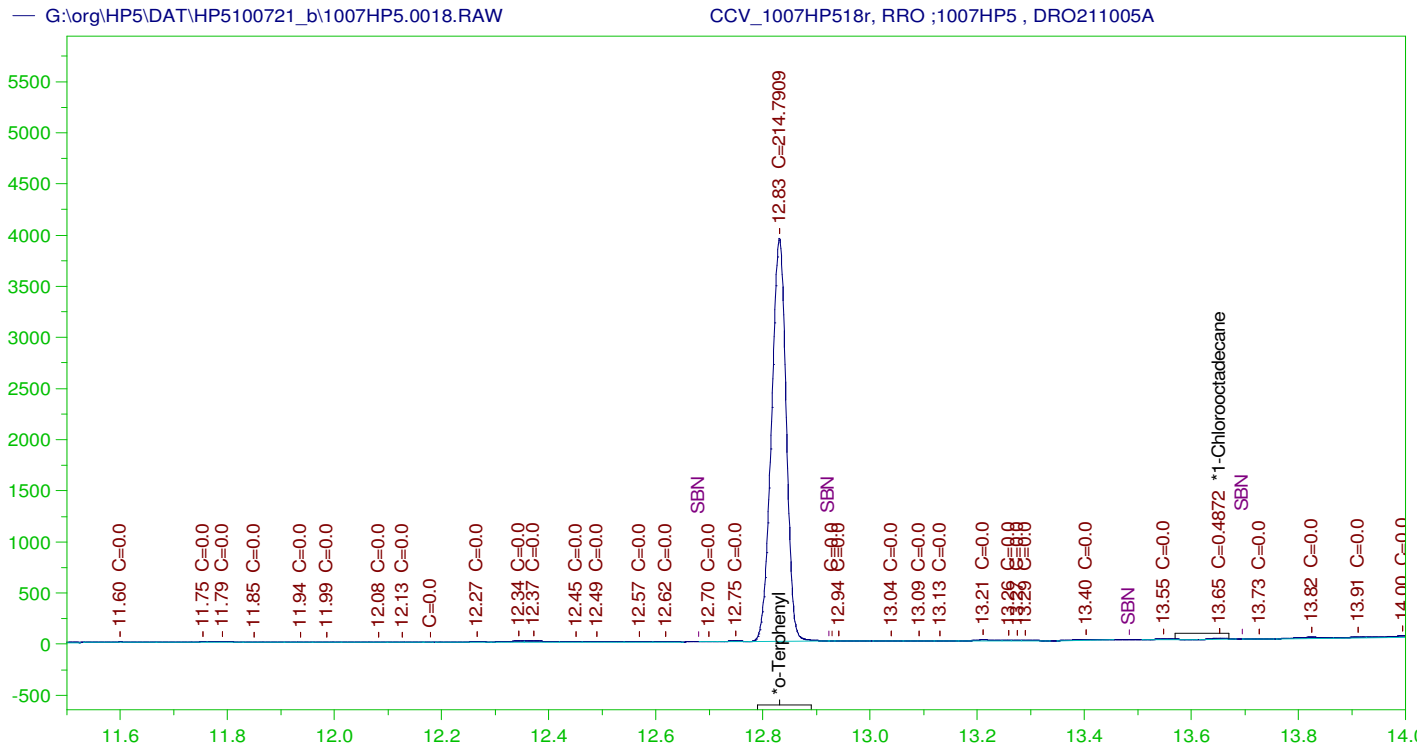
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0018.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4506.06 | 90.12 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | 217.648 | 108.82 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 4.019 | 2.01 | 85-115 |

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\018_CCV_1007HP518r_DC_OIL-AI-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP518r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0018.RAW
Date & Time Acquired: 10/7/2021 10:03:49 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | 214.791 | 107.4 | - |
| *1-Chlorooctadecane | 13.652 | 200. | .487 | .24 | - |

DRO Area:1500138 DRO Amount: 52.55822
TEH Area:3152237 TEH Amount: 110.4405

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0018.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 110.44 | 2.21 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | 214.791 | 107.4 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | .487 | .24 | 85-115 |

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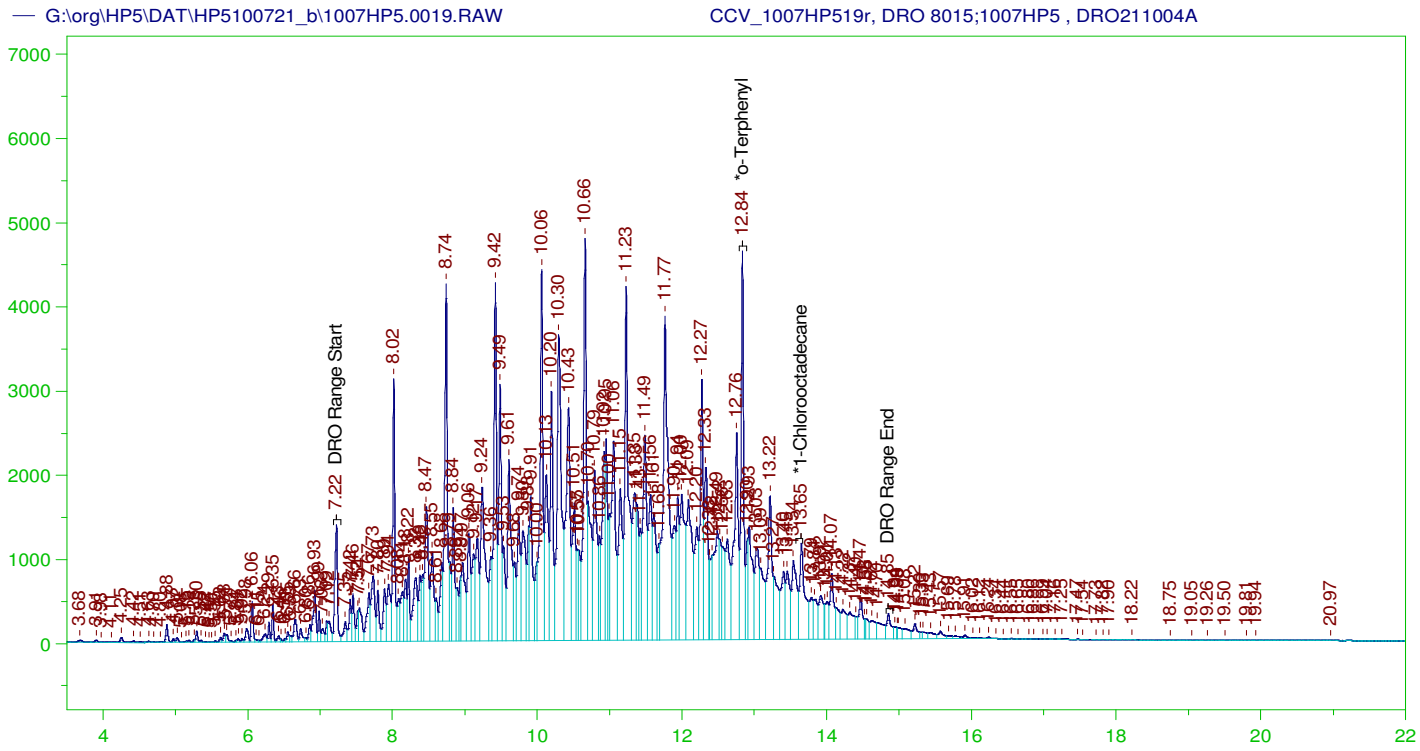


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP519r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0019.RAW
Date & Time Acquired: 10/7/2021 10:54:18 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | 200. | 332.129 | 166.06 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 160.28 | 80.14 | - |

DRO (C10-C24)Area:4.745514E+08 DRO (C10-C24)Amount: 16109.79
TEH Area:4.90905E+08 TEH Amount: 16664.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16664.95 | 111.1 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | 200. | 332.129 | 166.06 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 160.28 | 80.14 | 85-115 |

AMN 10/17/2021

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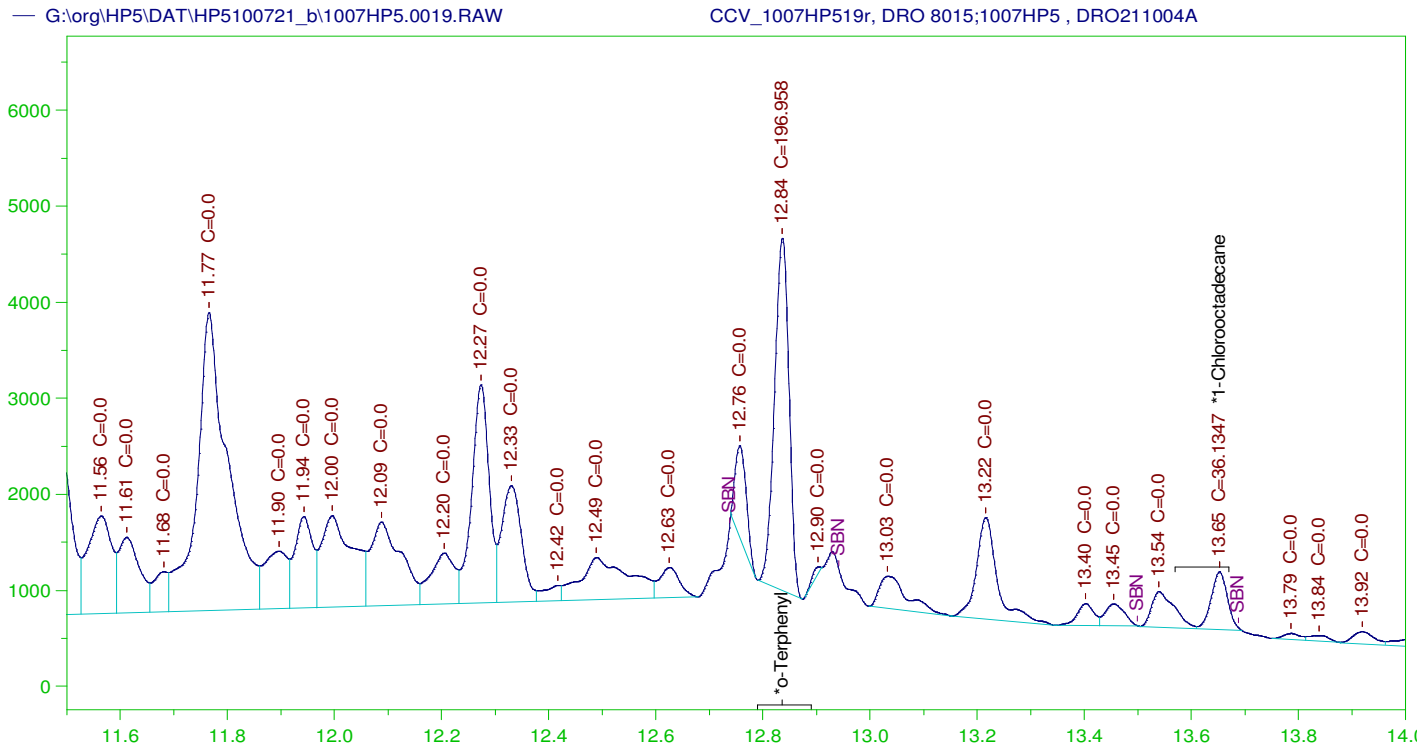


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP519r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0019.RAW
Date & Time Acquired: 10/7/2021 10:54:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | 200. | 196.958 | 98.48 | - |
| *1-Chlorooctadecane | 13.652 | 200. | 36.135 | 18.07 | - |

DRO Area:2.633599E+08 DRO Amount: 8940.385
TEH Area:2.737114E+08 TEH Amount: 9291.791

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9291.79 | 61.95 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | 200. | 196.958 | 98.48 | 85-115 |
| *1-Chlorooctadecane | 13.652 | 200. | 36.135 | 18.07 | 85-115 |

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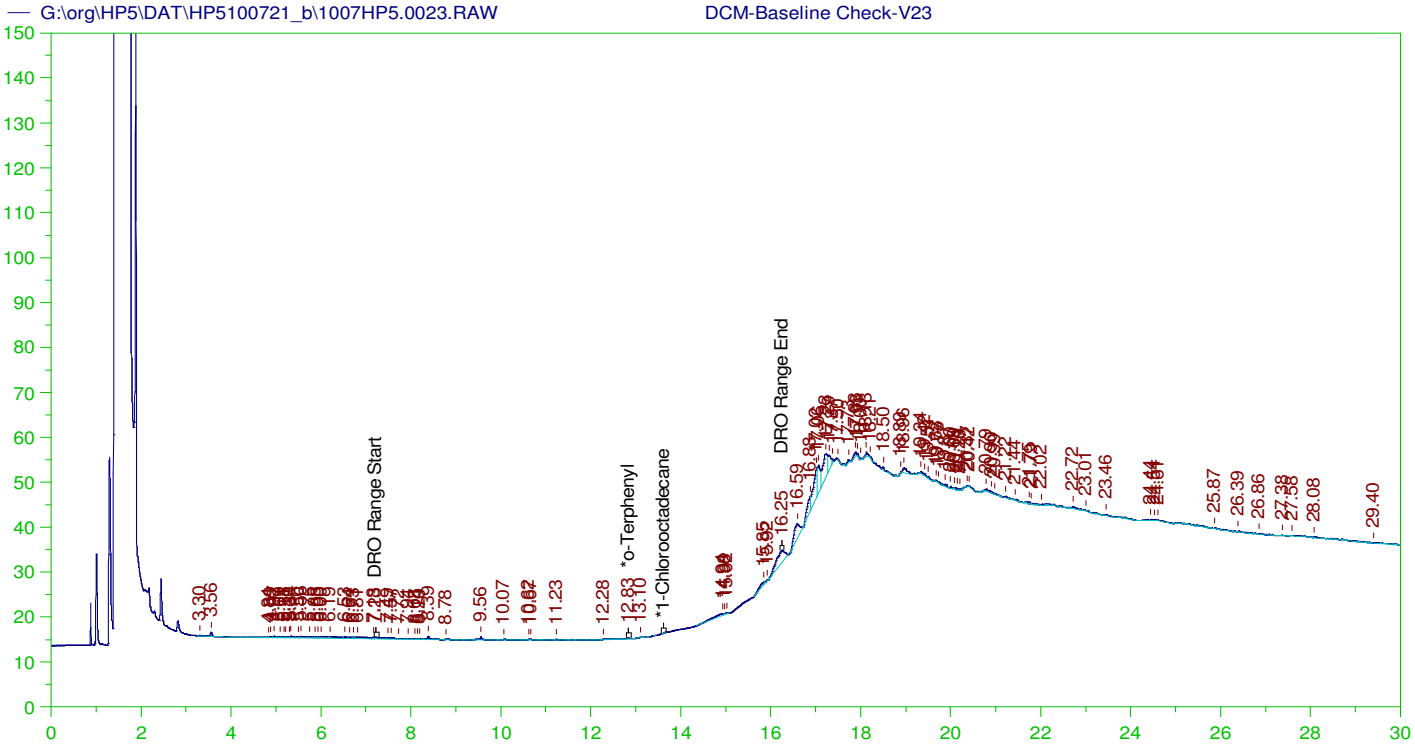


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V23
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0023.RAW
Date & Time Acquired: 10/8/2021 2:25:32 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.971 | 200. | . | . | - |

DRO Area:88499.95 DRO Amount: 3.004344
TEH Area:403462.3 TEH Amount: 13.6965

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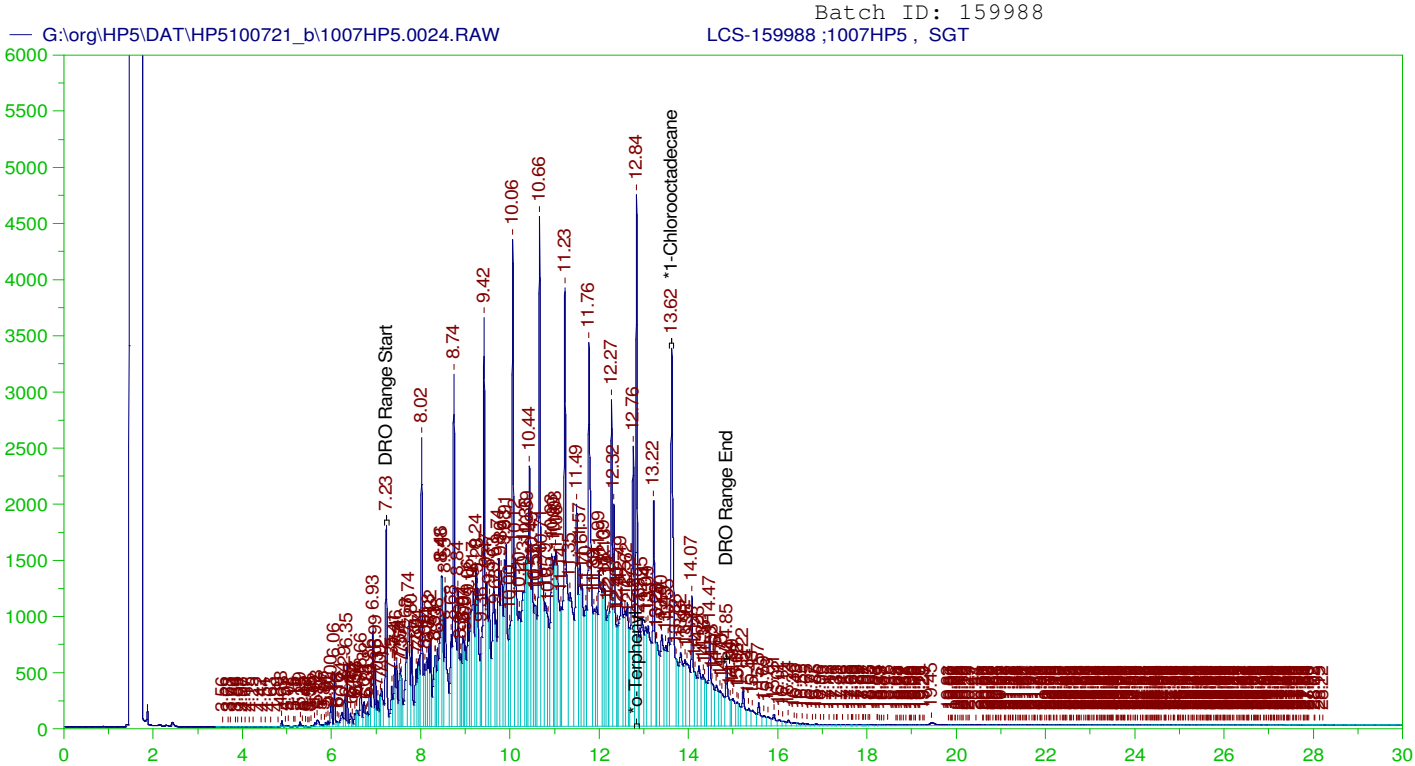
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988 ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0024.RAW
Date & Time Acquired: 10/8/2021 3:17:52 AM
Method File: G:\Org\HP5\Methods\D3_8015-100724-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.835 | .2 | .347 | 173.41 | - |
| *1-Chlorooctadecane | 13.621 | .2 | .372 | 186.22 | - |

DRO (SGT-C10-C24)Area:4.30094E+08 DRO (SGT-C10-C24)Amount: 14.60057
TEH (SGT)Area:4.594867E+08 TEH (SGT)Amount: 15.59838

AMN 10/17/2021

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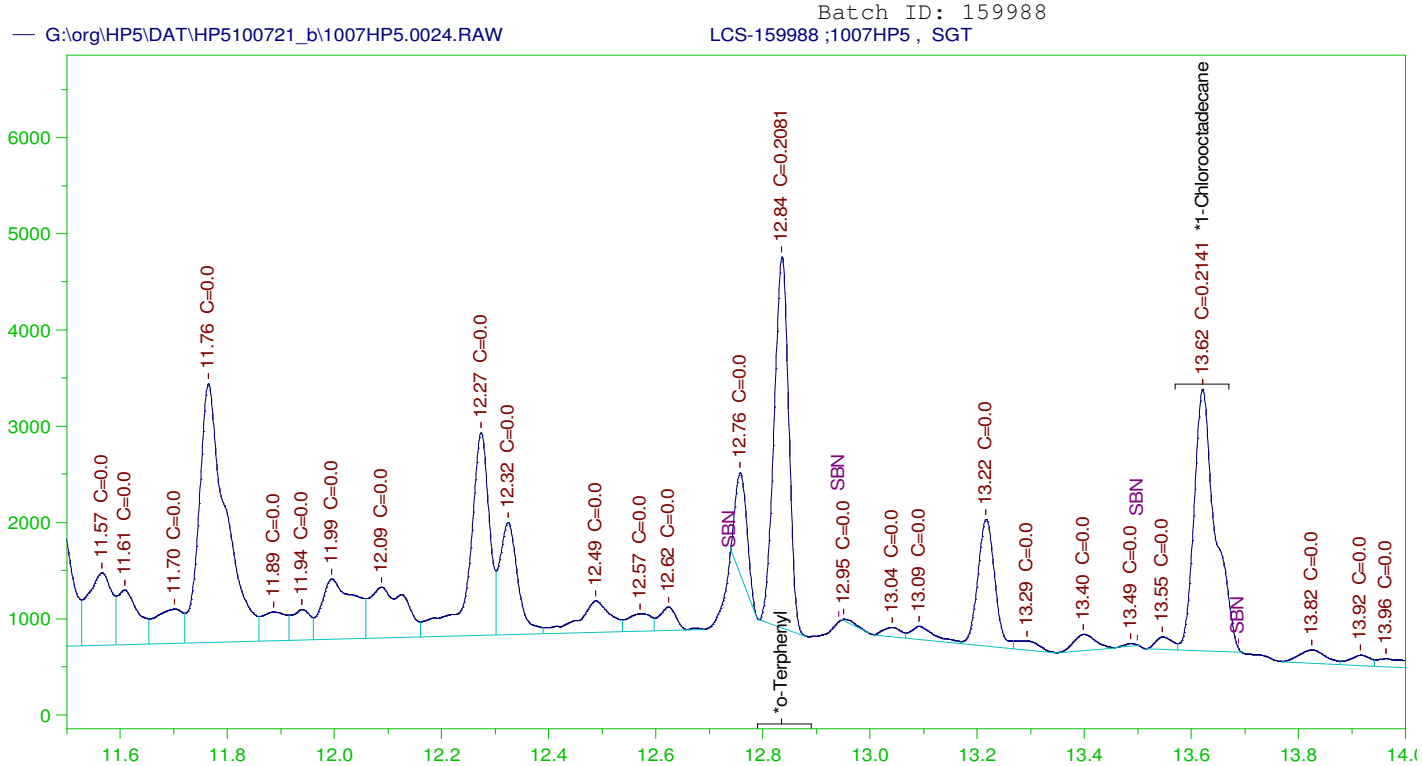
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988 ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0024.RAW
Date & Time Acquired: 10/8/2021 3:17:52 AM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.835 | .2 | .208 | 104.04 | - |
| *1-Chlorooctadecane | 13.621 | .2 | .214 | 107.06 | - |

DRO Area:2.107906E+08 DRO Amount: 7.155794
TEH Area:2.22689E+08 TEH Amount: 7.559712

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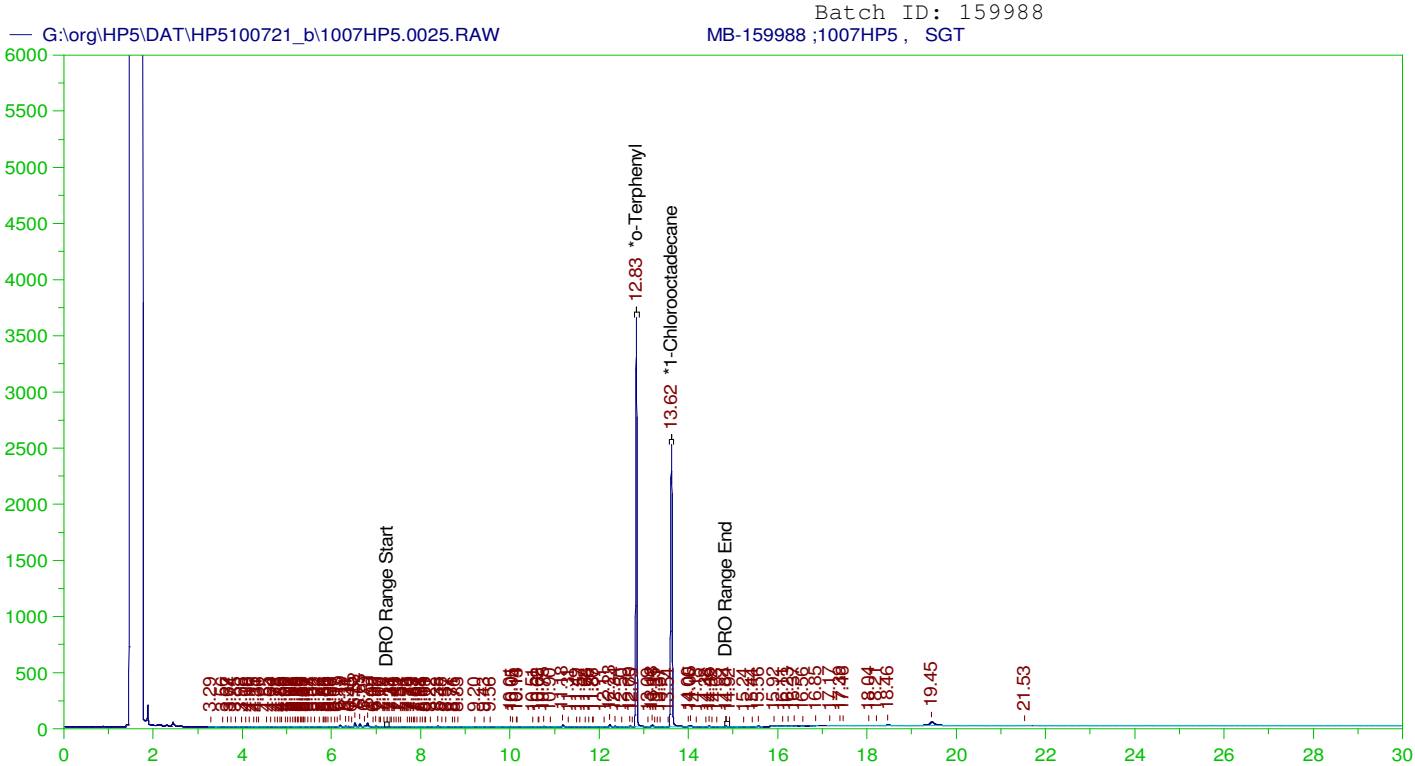
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-159988 ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0025.RAW
Date & Time Acquired: 10/8/2021 4:10:08 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

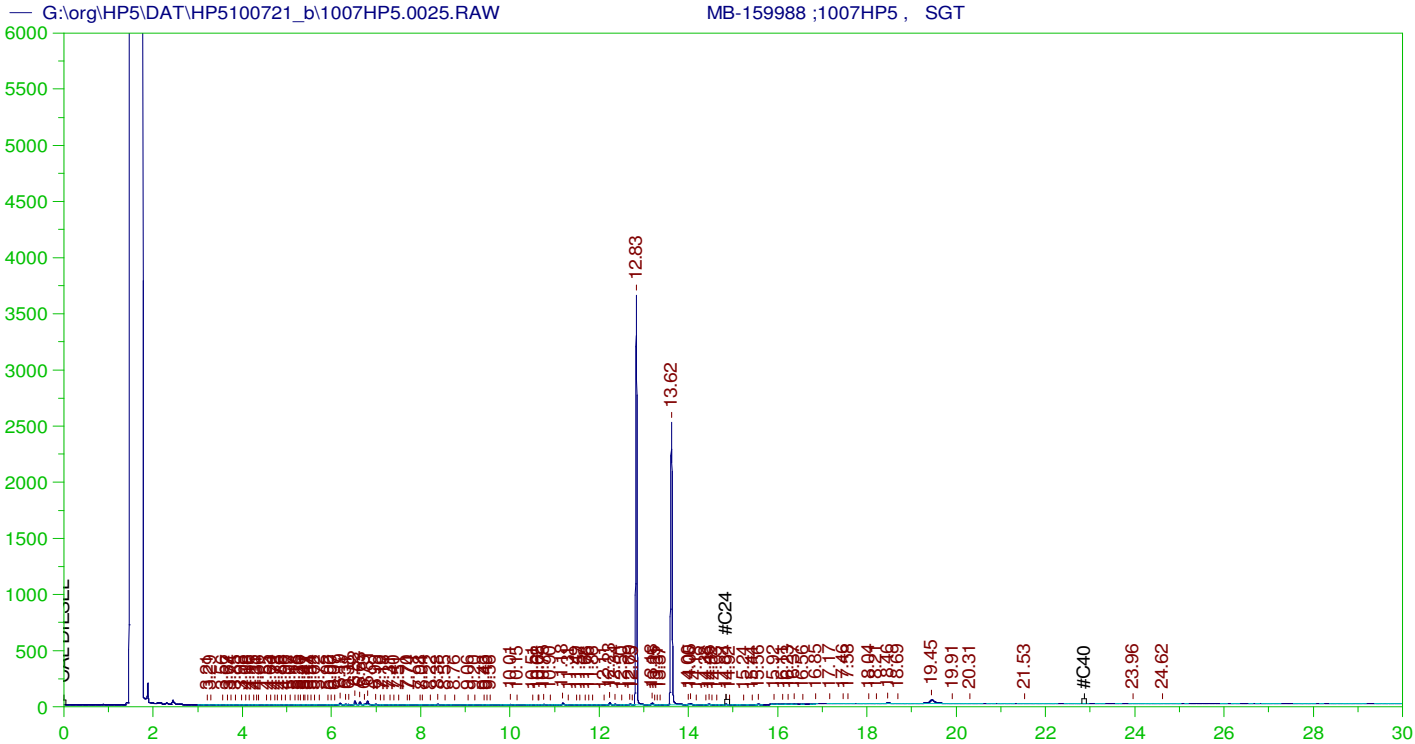
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.83 | .2 | .201 | 100.3 | - |
| *1-Chlorooctadecane | 13.616 | .2 | .157 | 78.68 | - |

DRO (SGT-C10-C24)Area:346579 DRO (SGT-C10-C24)Amount: 1.176546E-02
TEH (SGT)Area:1050404 TEH (SGT)Amount: 3.565848E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\025_MB-159988_DR_8015-C24-HR-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-159988 ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0025.RAW
Date & Time Acquired: 10/8/2021 4:10:08 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40)Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:304770.5 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 1.067781E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\025_MB-159988_DR_OIL-S-AI-L%.xls

**ERH1764 (RHMW08)** Batch ID: 159988

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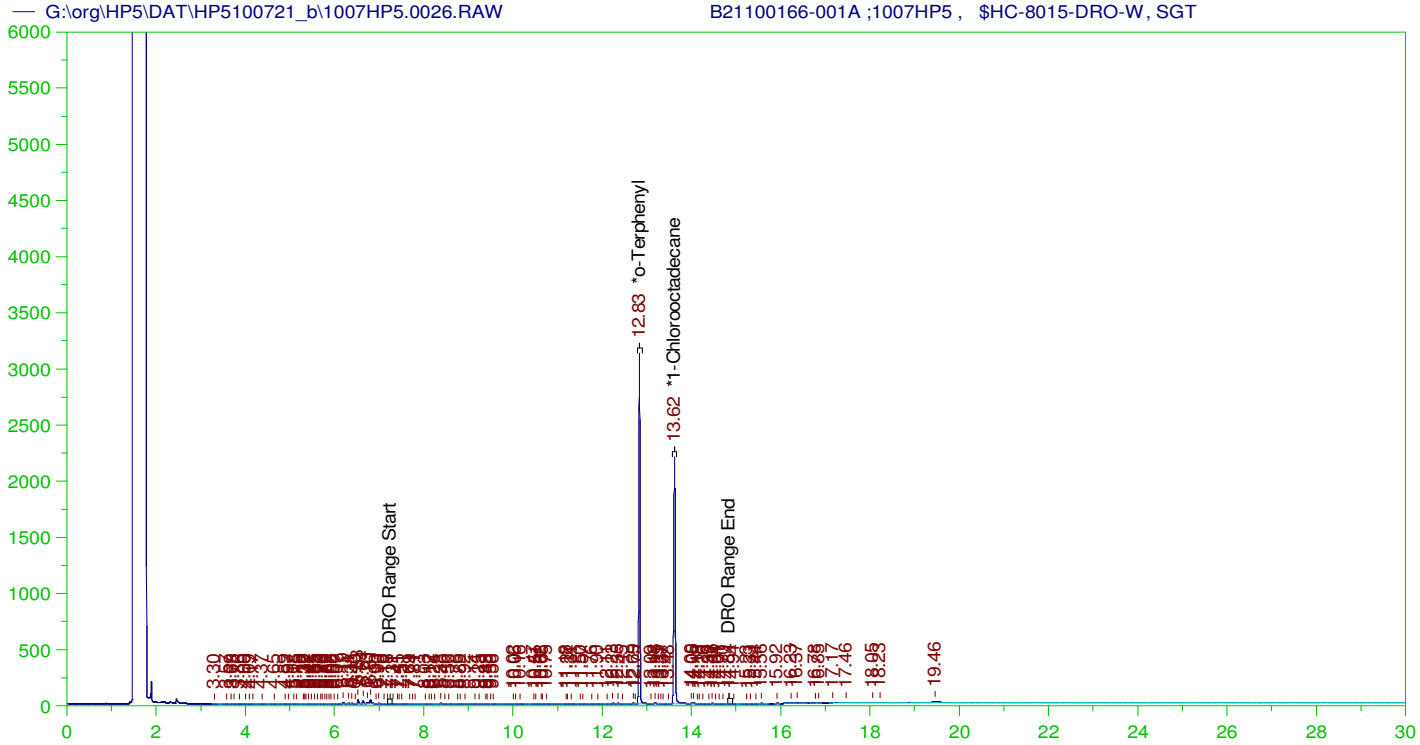


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0026.RAW
Date & Time Acquired: 10/8/2021 5:03:00 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | .198 | .171 | 86.53 | - |
| *1-Chlorooctadecane | 13.617 | .198 | .137 | 69.25 | - |

DRO (SGT-C10-C24)Area:219404.6 DRO (SGT-C10-C24)Amount: 7.374473E-03
TEH (SGT)Area:745894.3 TEH (SGT)Amount: 2.507047E-02

AMN 10/17/2021

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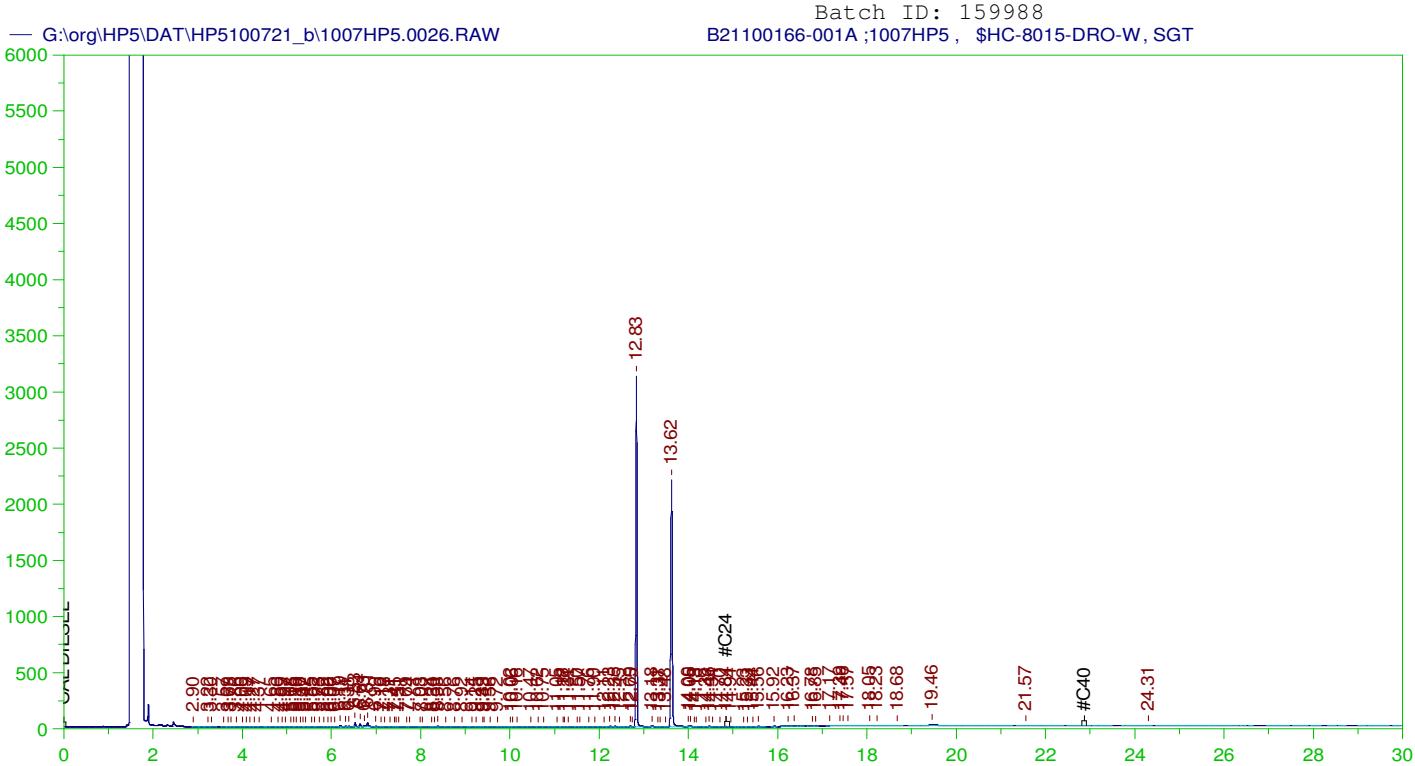
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0026.RAW
Date & Time Acquired: 10/8/2021 5:03:00 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:146401.4 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 5.078473E-03

AMN 10/17/2021

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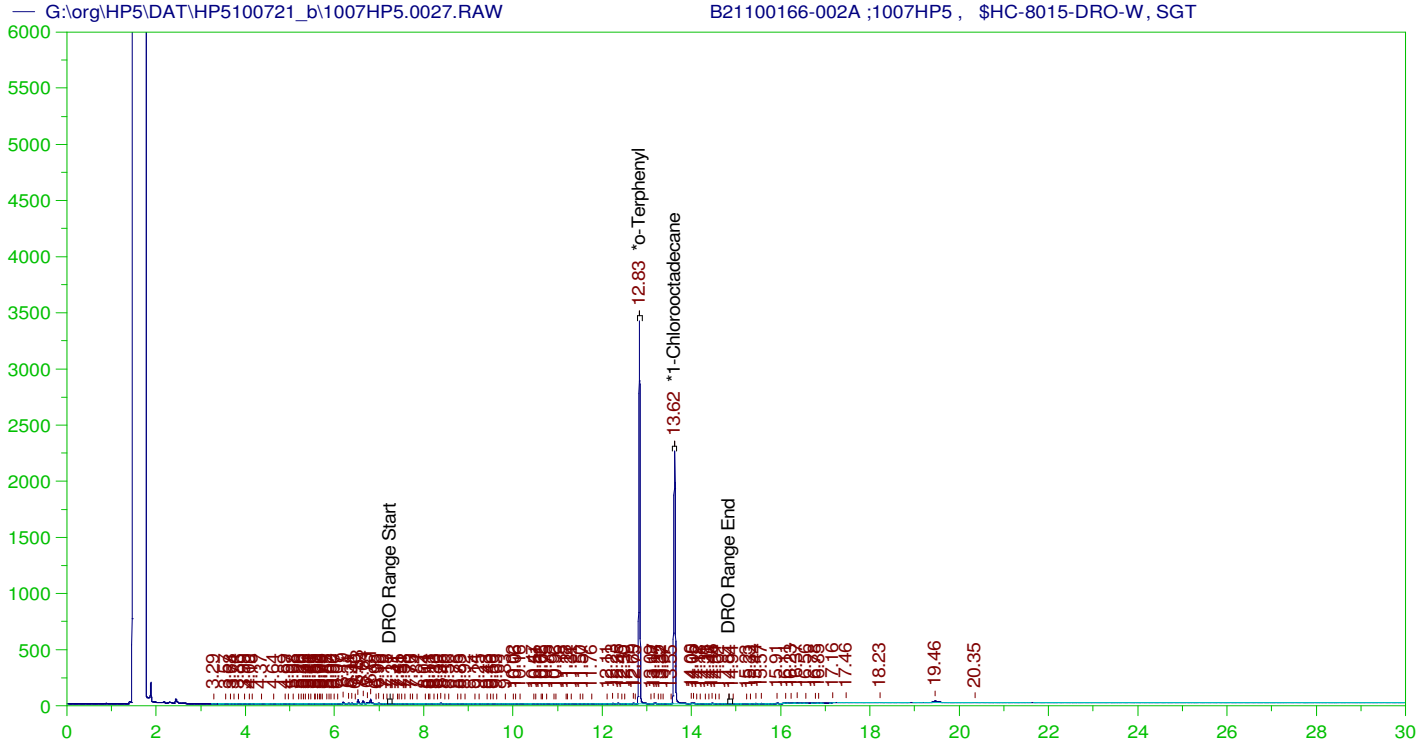
**ERH1765 (RHMW09)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0027.RAW B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0027.RAW
Date & Time Acquired: 10/8/2021 5:55:27 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.832 | .192 | .18 | 93.58 | - |
| *1-Chlorooctadecane | 13.617 | .192 | .134 | 69.87 | - |

DRO (SGT-C10-C24)Area:205282.1 DRO (SGT-C10-C24)Amount: 6.700766E-03
TEH (SGT)Area:768952.3 TEH (SGT)Amount: 2.509994E-02

AMN 10/17/2021

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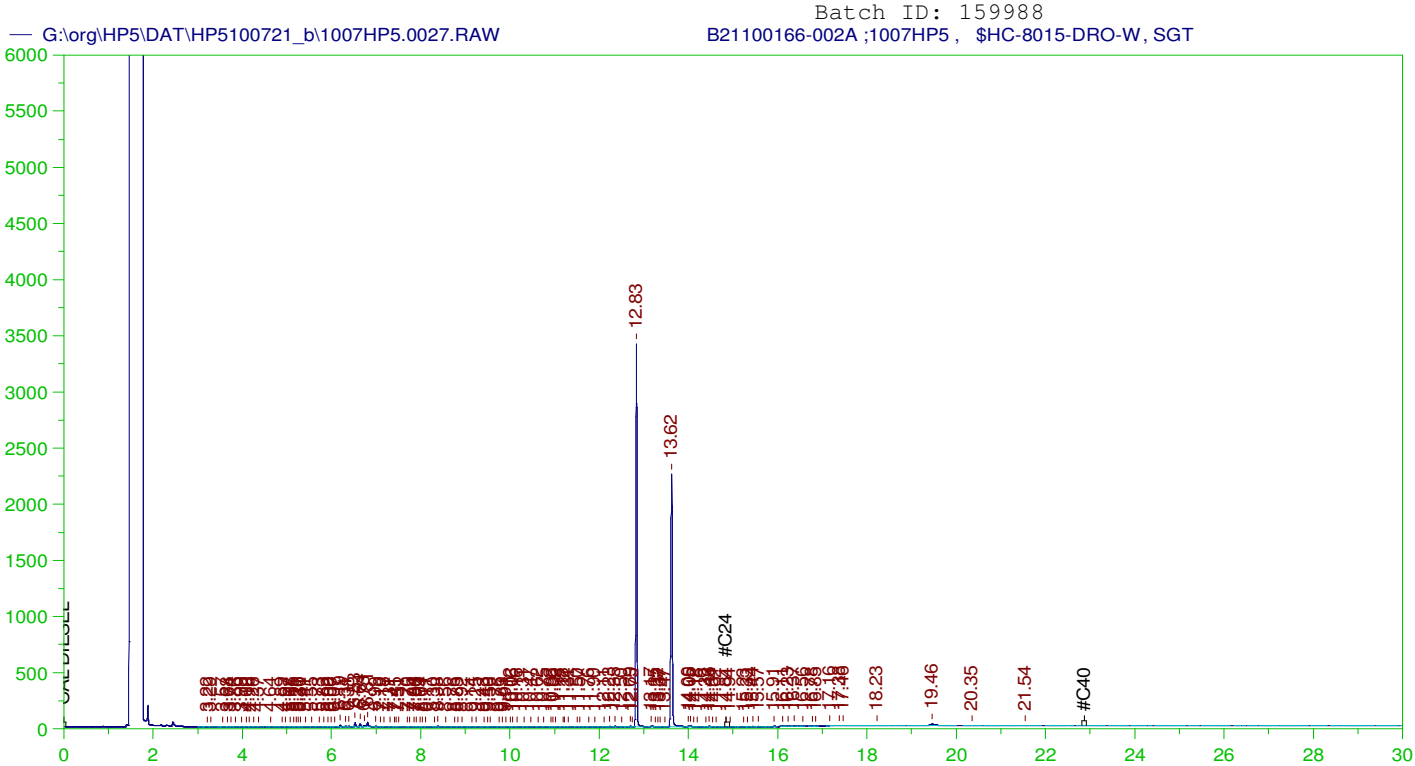
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0027.RAW
Date & Time Acquired: 10/8/2021 5:55:27 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

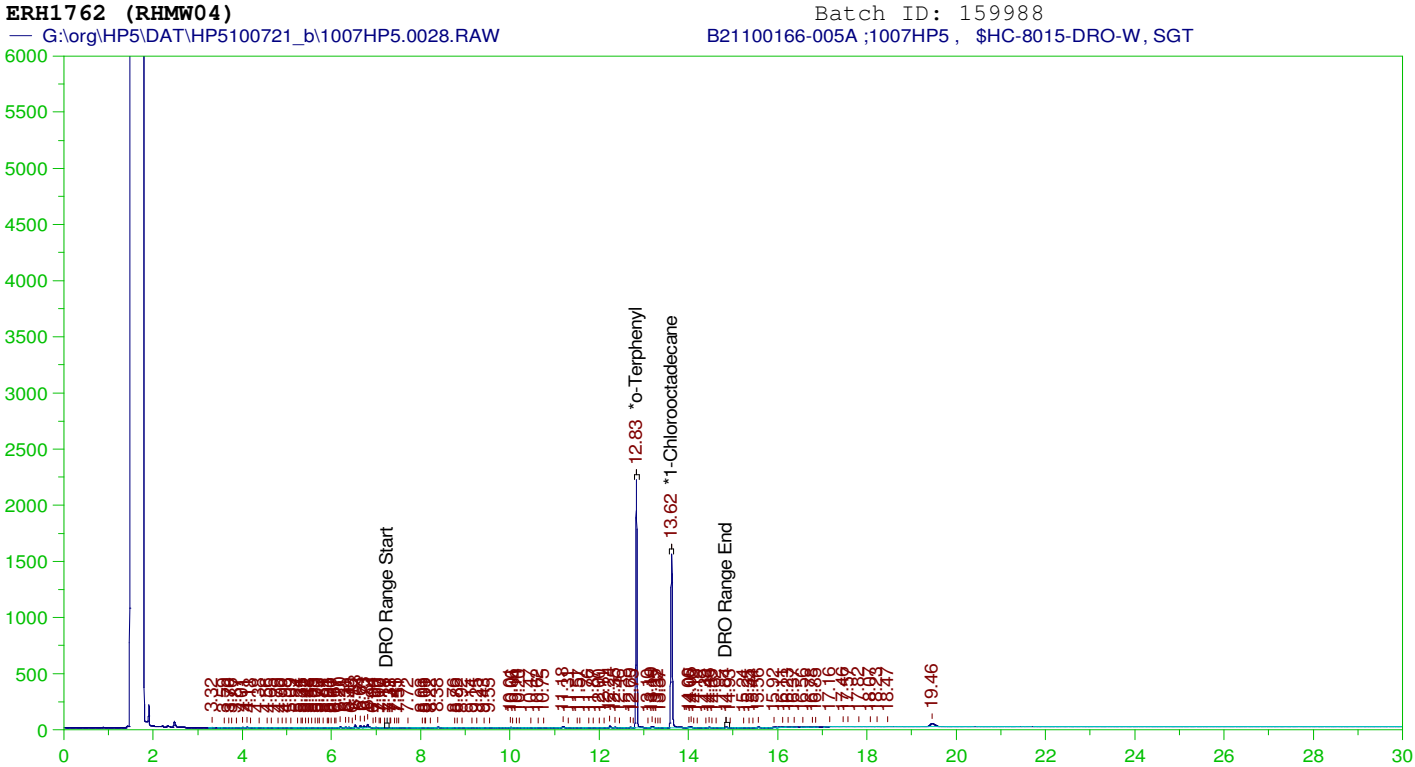
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:170797.3 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 5.753828E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\027_B21100166-002A_DR_OIL-S-AI-L%.xls

**ERH1762 (RHMW04)** Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0028.RAW
Date & Time Acquired: 10/8/2021 6:43:04 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

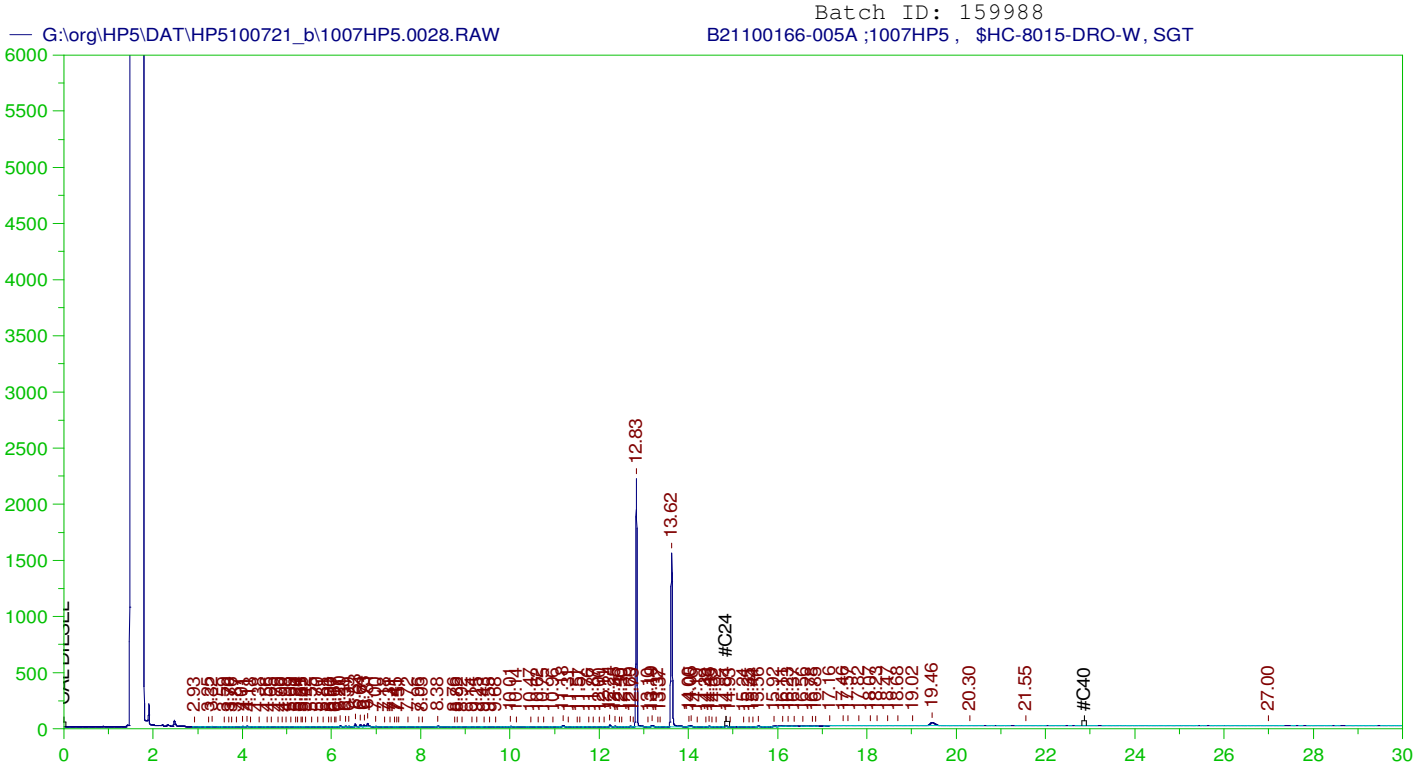
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.831 | .194 | .118 | 60.96 | - |
| *1-Chlorooctadecane | 13.618 | .194 | .094 | 48.32 | - |

DRO (SGT-C10-C24)Area:297066.8 DRO(SGT-C10-C24)Amount: 9.790919E-03
TEH (SGT)Area:938954.4 TEH (SGT)Amount: 3.094667E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\028_B21100166-005A_DR_8015-C24-HR-L%.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0028.RAW
Date & Time Acquired: 10/8/2021 6:43:04 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:313722.8 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 1.067132E-02

AMN 10/17/2021

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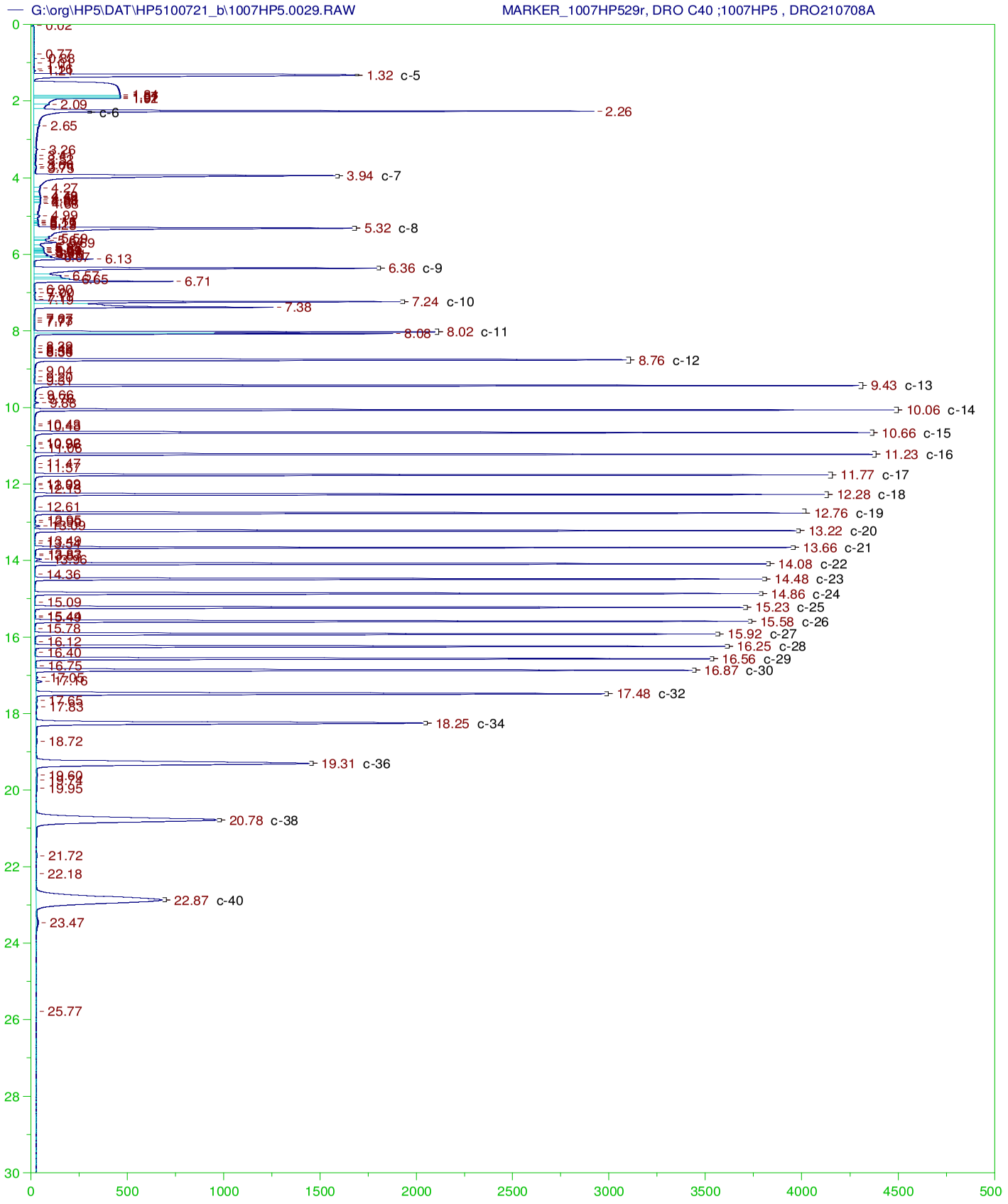
G:\org\HP5\DAT\HP5100721_b\1007HP5.0029.RAW
MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A
1.32 c-5
2.26 c-6
3.94 c-7
5.32 c-8
6.36 c-9
7.24 c-10
8.02 c-11
8.76 c-12
9.43 c-13
10.06 c-14
10.66 c-15
11.23 c-16
11.77 c-17
12.28 c-18
12.76 c-19
13.22 c-20
13.66 c-21
14.08 c-22
14.48 c-23
14.86 c-24
15.23 c-25
15.58 c-26
15.92 c-27
16.25 c-28
16.56 c-29
16.87 c-30
17.48 c-32
18.25 c-34
19.31 c-36
20.78 c-38
22.87 c-40
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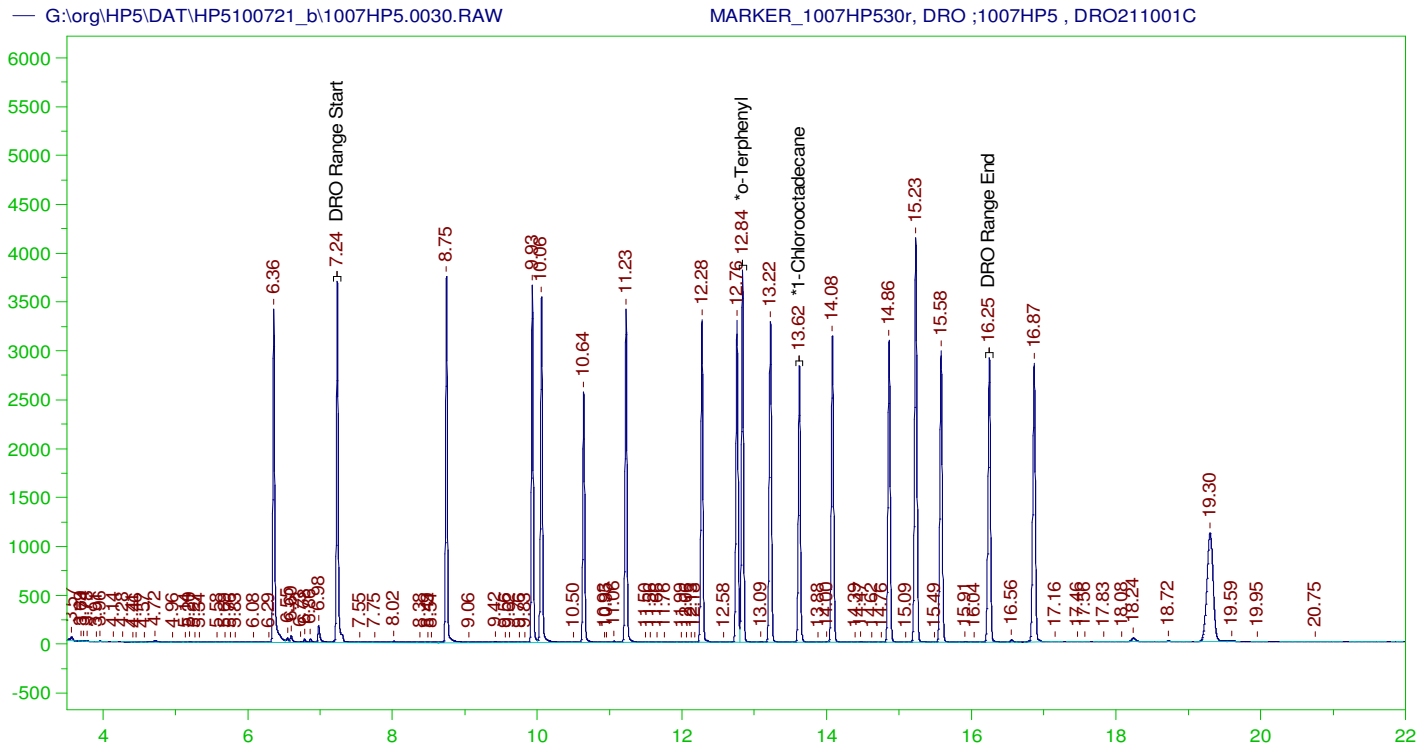



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

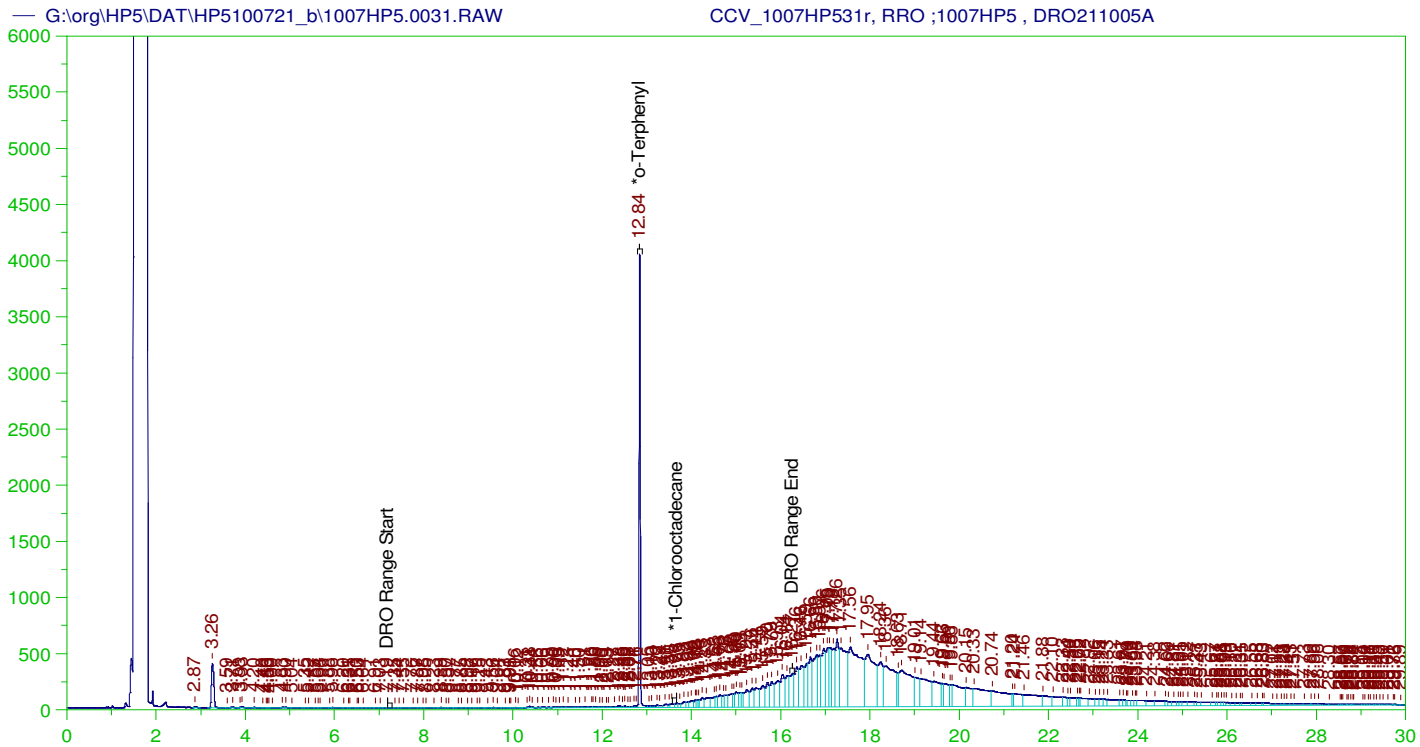
Sample Name: MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0030.RAW
Date & Time Acquired: 10/8/2021 8:16:00 AM
Method File: G:\Org\HP5\Methods\DC_8015-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.837 | .2 | .209 | 104.34 | - |
| *1-Chlorooctadecane | 13.623 | .2 | .169 | 84.37 | - |

DRO Area:9.51296E+07 DRO Amount: 3.229403
TEH Area:1.213937E+08 TEH Amount: 4.121

G:\org\HP5\dat\HP5100721_b\Review\030_MARKER_1007HP530r_DC_8015-HR-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP531r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0031.RAW
Date & Time Acquired: 10/8/2021 9:02:45 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AI-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 225.236 | 112.62 | - |
| *1-Chlorooctadecane | 13.66 | 200. | 4.392 | 2.2 | - |

DRO Area:2.243381E+07 DRO Amount: 785.9817
TEH (Oil Range) Area:1.312489E+08 TEH (Oil Range) Amount: 4598.383

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0031.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4598.38 | 91.97 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 225.236 | 112.62 | 85-115 |
| *1-Chlorooctadecane | 13.66 | 200. | 4.392 | 2.2 | 85-115 |

AMN 10/17/2021

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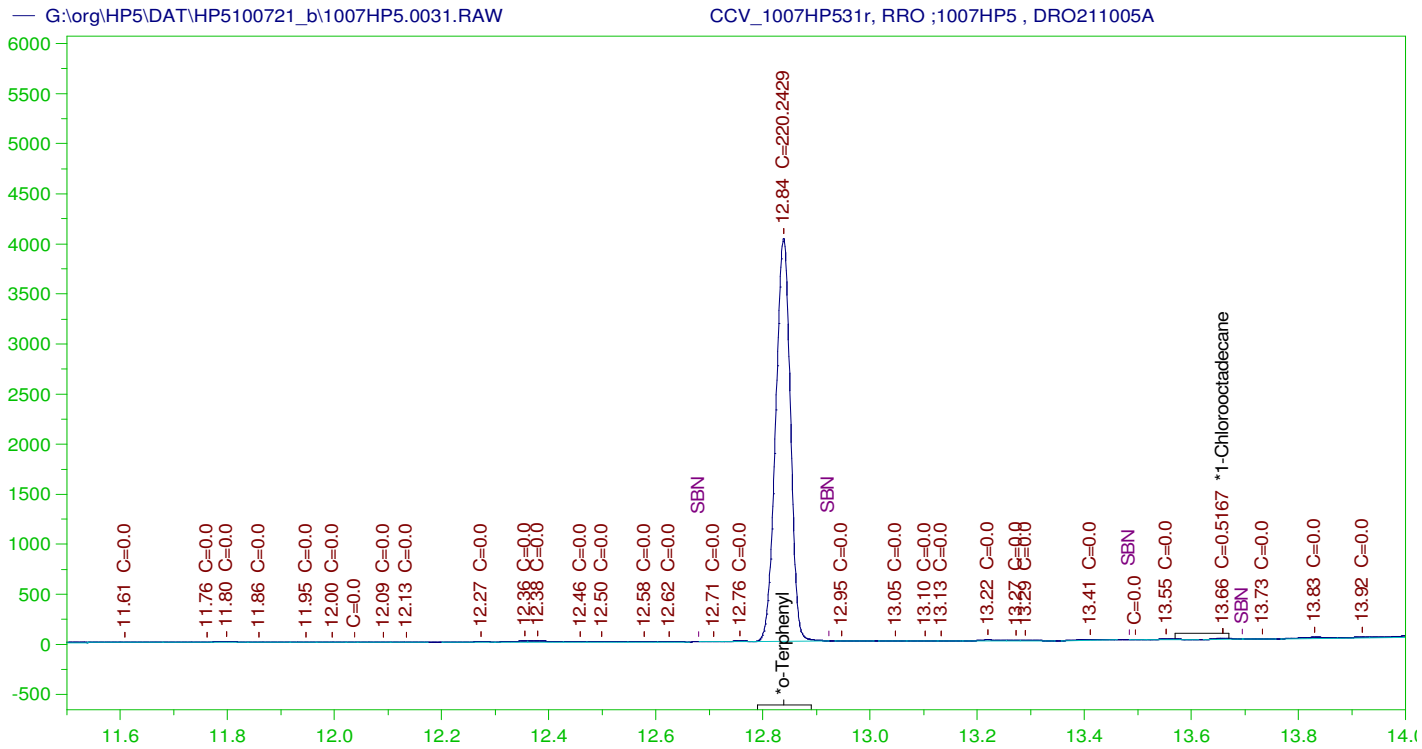


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP531r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0031.RAW
Date & Time Acquired: 10/8/2021 9:02:45 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 220.243 | 110.12 | - |
| *1-Chlorooctadecane | 13.66 | 200. | .517 | .26 | - |

DRO Area:1545693 DRO Amount: 54.15427
TEH Area:3213057 TEH Amount: 112.5713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0031.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 112.57 | 2.25 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.838 | 200. | 220.243 | 110.12 | 85-115 |
| *1-Chlorooctadecane | 13.66 | 200. | .517 | .26 | 85-115 |

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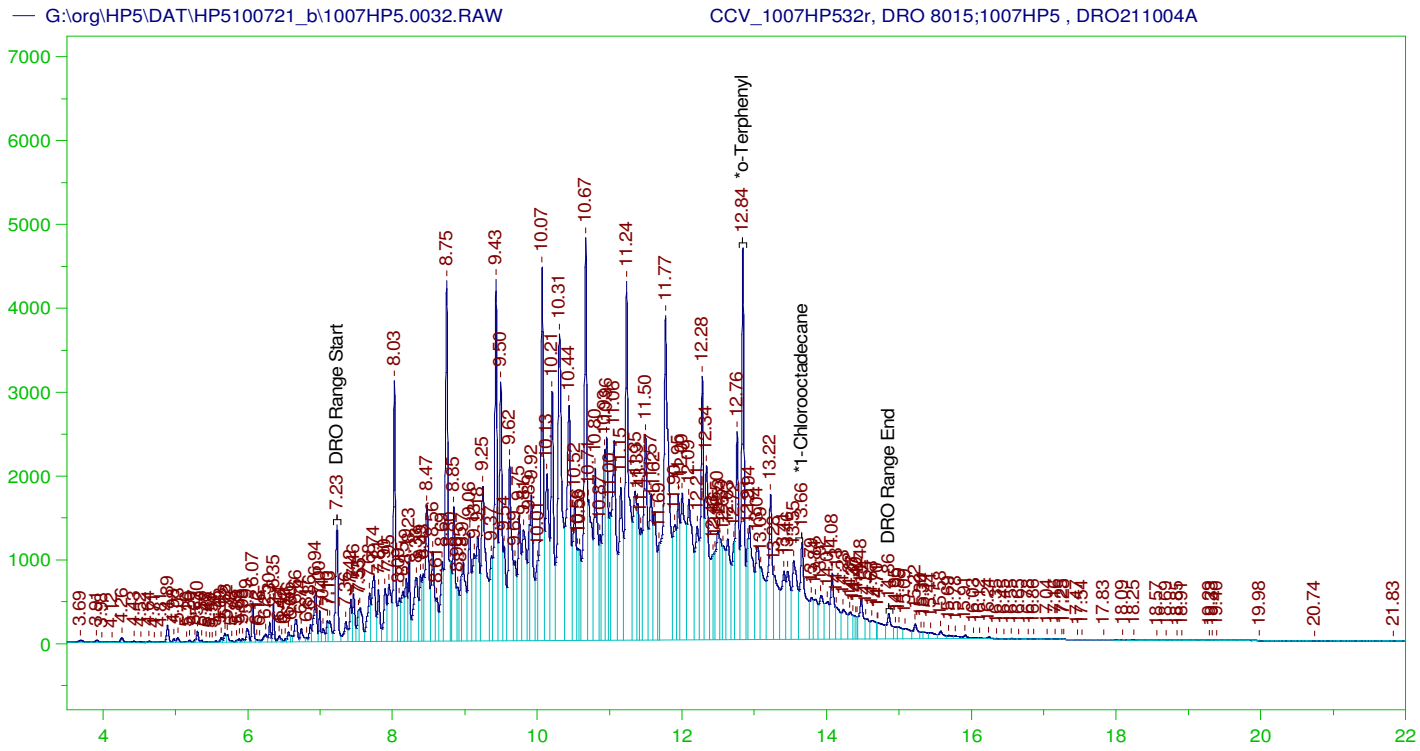


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0032.RAW
Date & Time Acquired: 10/8/2021 9:50:29 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 336.608 | 168.3 | - |
| *1-Chlorooctadecane | 13.658 | 200. | 161.978 | 80.99 | - |

DRO (C10-C24)Area:4.795326E+08 DRO (C10-C24)Amount: 16278.89
TEH Area:4.959475E+08 TEH Amount: 16836.13

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0032.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16836.13 | 112.24 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 336.608 | 168.3 | 85-115 |
| *1-Chlorooctadecane | 13.658 | 200. | 161.978 | 80.99 | 85-115 |

AMN 10/17/2021

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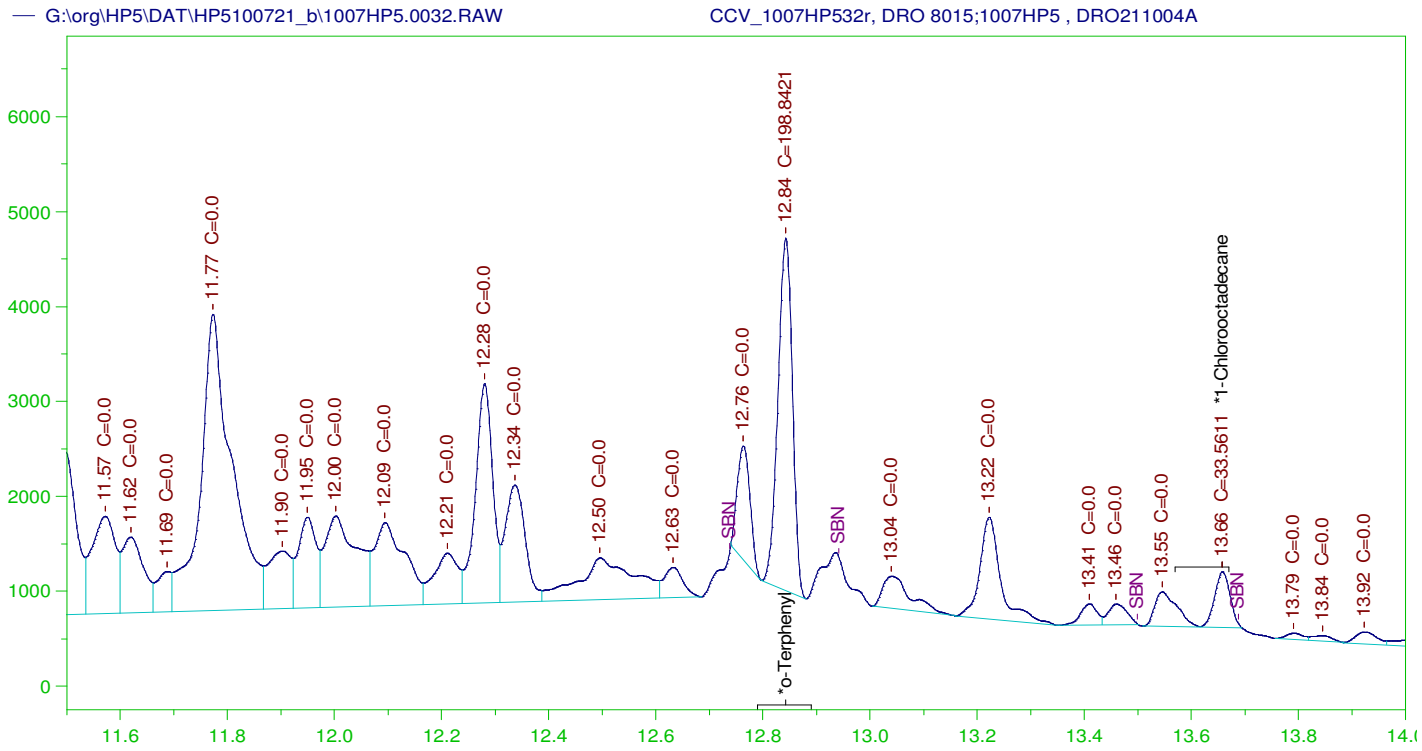


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0032.RAW
Date & Time Acquired: 10/8/2021 9:50:29 AM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 198.842 | 99.42 | - |
| *1-Chlorooctadecane | 13.658 | 200. | 33.561 | 16.78 | - |

DRO Area:2.667287E+08 DRO Amount: 9054.749
TEH Area:2.771071E+08 TEH Amount: 9407.068

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0032.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9407.07 | 62.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | 200. | 198.842 | 99.42 | 85-115 |
| *1-Chlorooctadecane | 13.658 | 200. | 33.561 | 16.78 | 85-115 |

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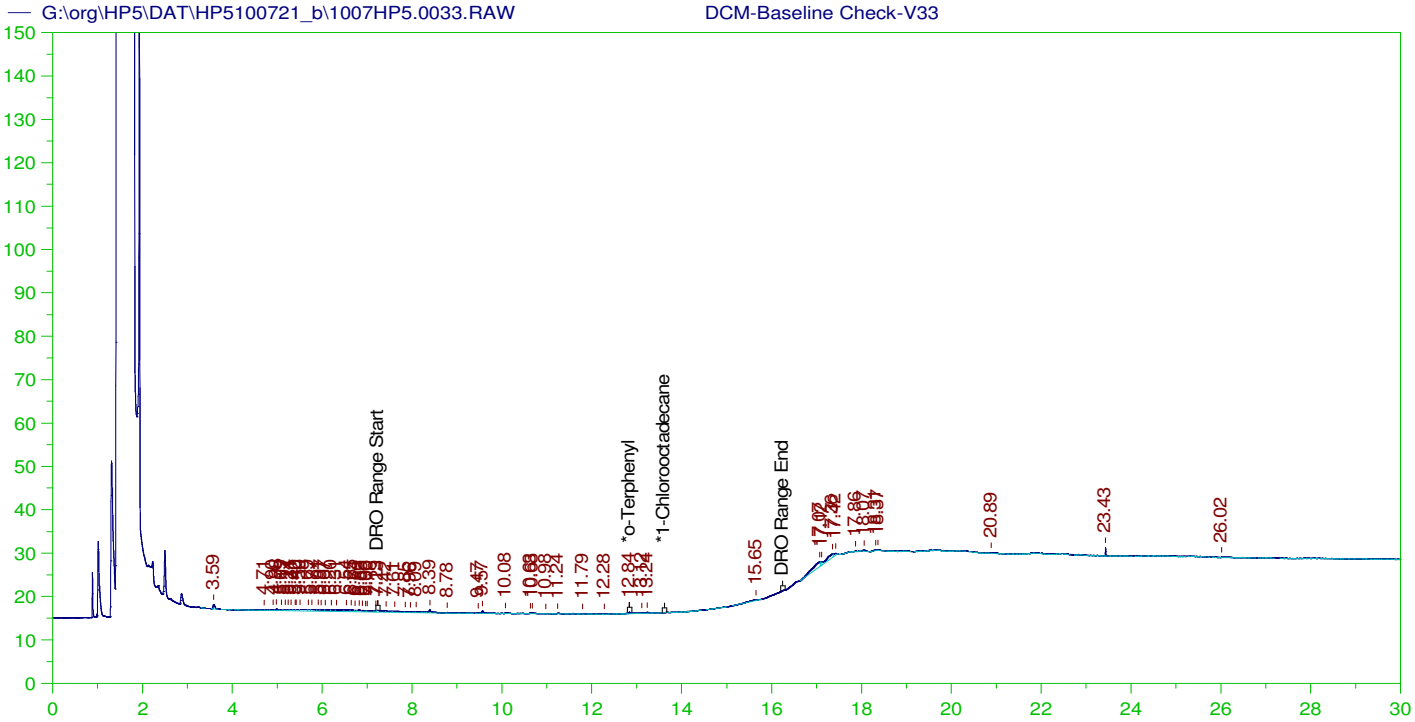


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V33
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0033.RAW
Date & Time Acquired: 10/8/2021 10:39:04 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.84 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.936 | 200. | . | . | - |

DRO Area:35840.48 DRO Amount: 1.216691
TEH Area:143203.8 TEH Amount: 4.861399

G:\org\HP5\dat\HP5100721_b\Review\033_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

**ERH1766 (RHMW10)** Batch ID: 159988

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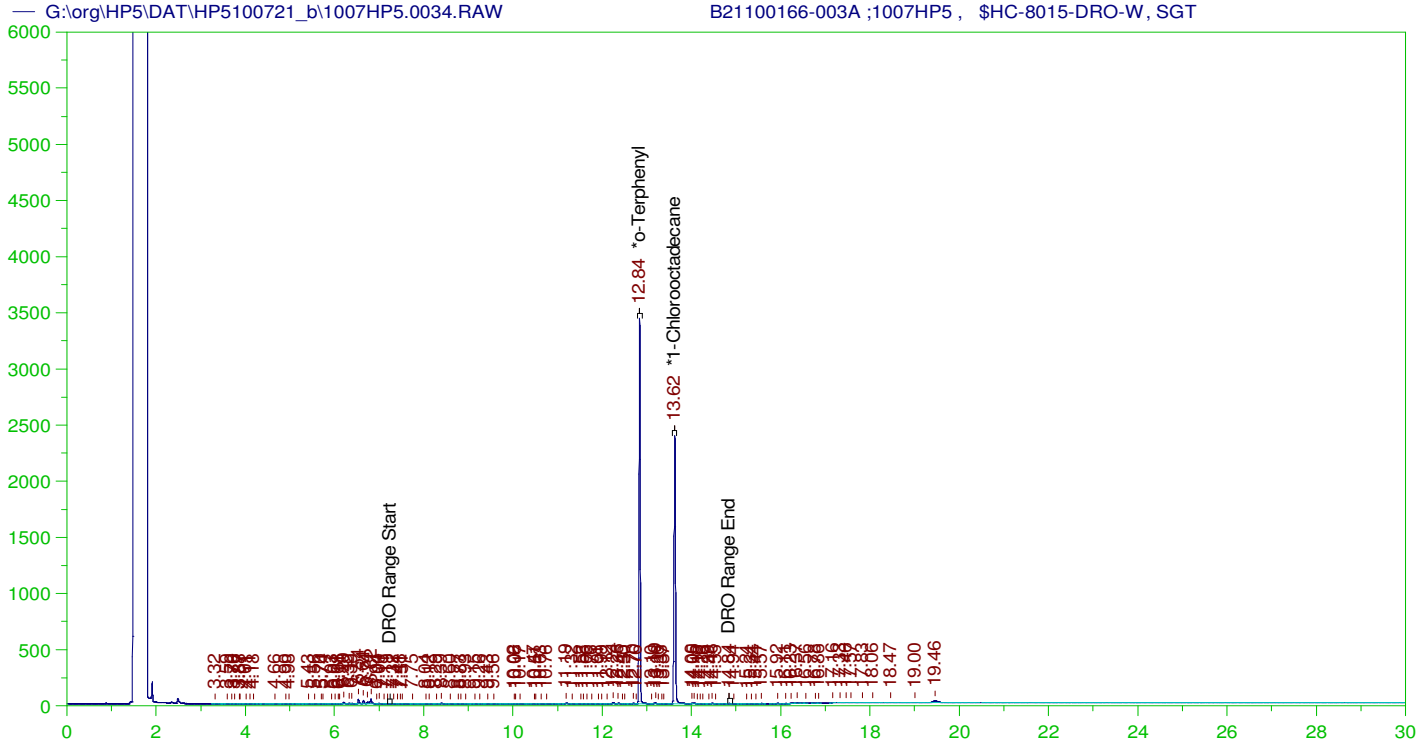


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0034.RAW
Date & Time Acquired: 10/8/2021 11:27:35 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.837 | .192 | .181 | 94.32 | - |
| *1-Chlorooctadecane | 13.622 | .192 | .142 | 73.98 | - |

DRO (SGT-C10-C24)Area:274683 DRO (SGT-C10-C24)Amount: 8.966131E-03
TEH (SGT)Area:893801.3 TEH (SGT)Amount: 2.917523E-02

AMN 10/17/2021

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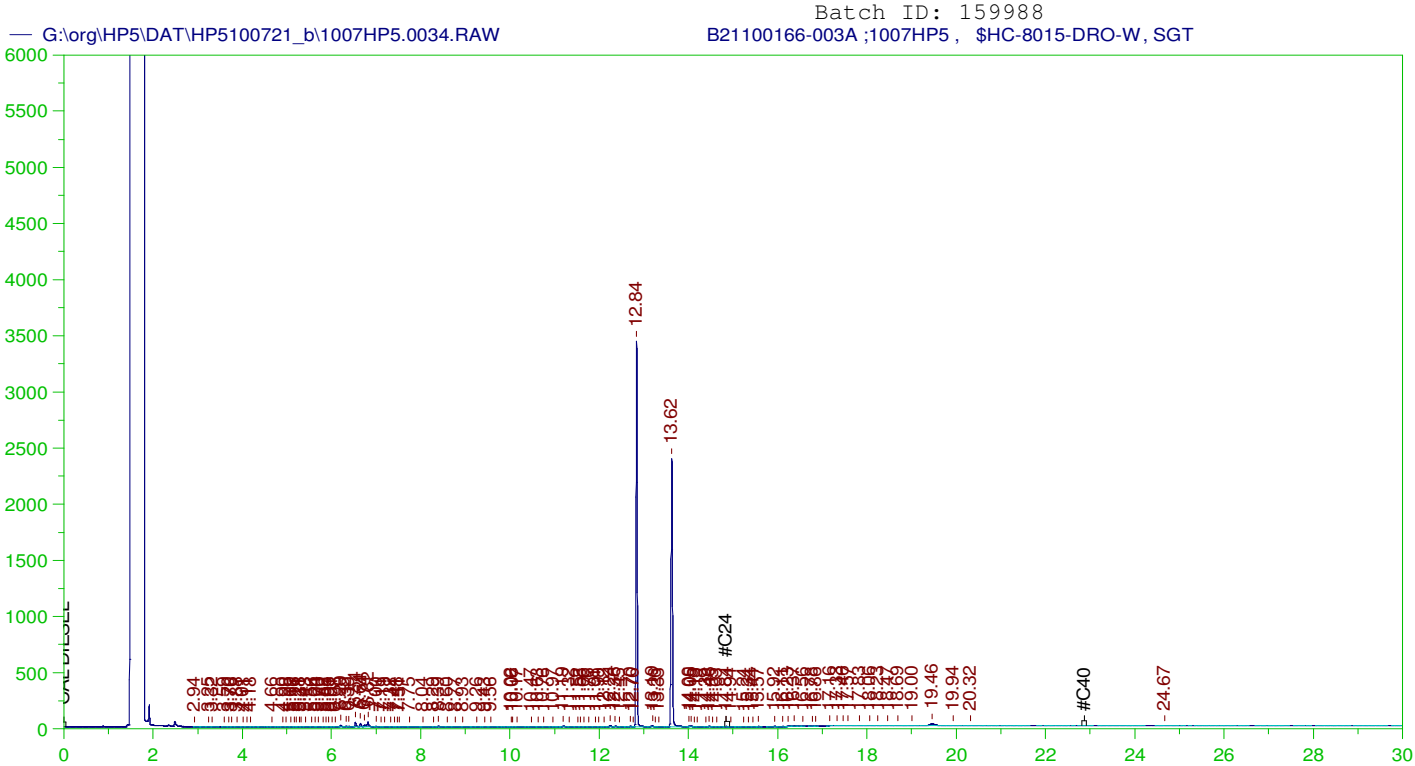
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0034.RAW
Date & Time Acquired: 10/8/2021 11:27:35 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:230258.7 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 7.756968E-03

AMN 10/17/2021

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**ERH1769 (RHMW19)** Batch ID: 159988

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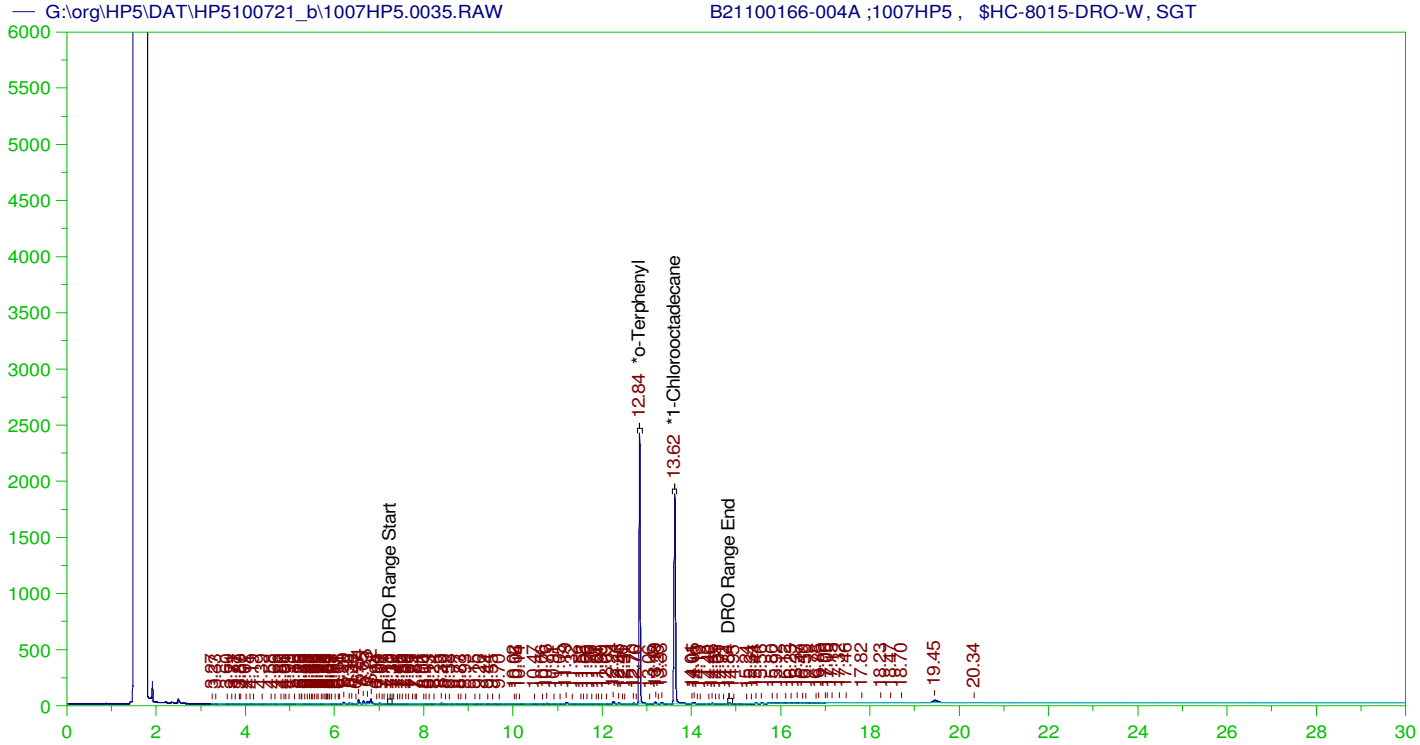


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0035.RAW
Date & Time Acquired: 10/8/2021 12:16:07 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.836 | .196 | .129 | 66.03 | - |
| *1-Chlorooctadecane | 13.621 | .196 | .114 | 58.27 | - |

DRO (SGT-C10-C24)Area:370105.9 DRO (SGT-C10-C24)Amount: 1.231778E-02
TEH (SGT)Area:1125749 TEH (SGT)Amount: 3.746692E-02

AMN 10/17/2021

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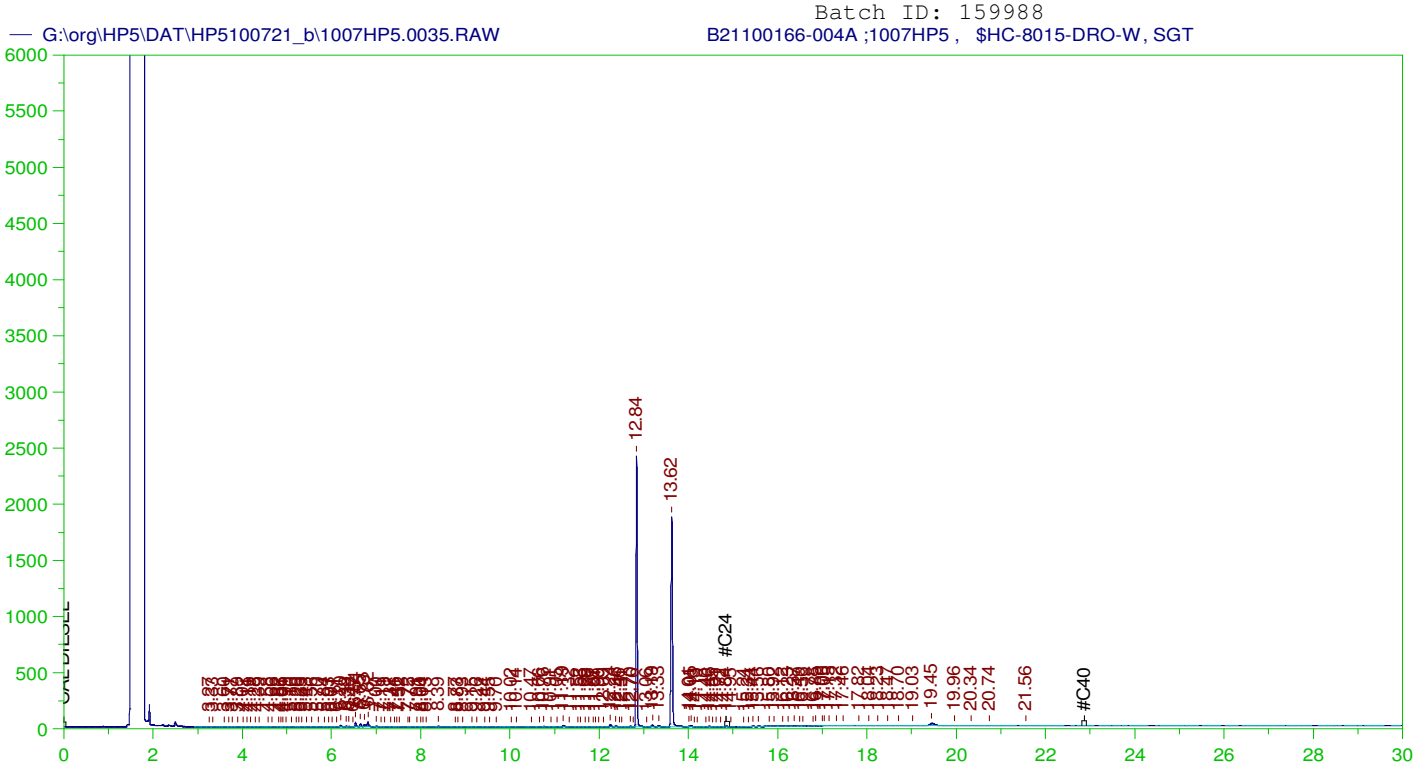
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0035.RAW
Date & Time Acquired: 10/8/2021 12:16:07 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

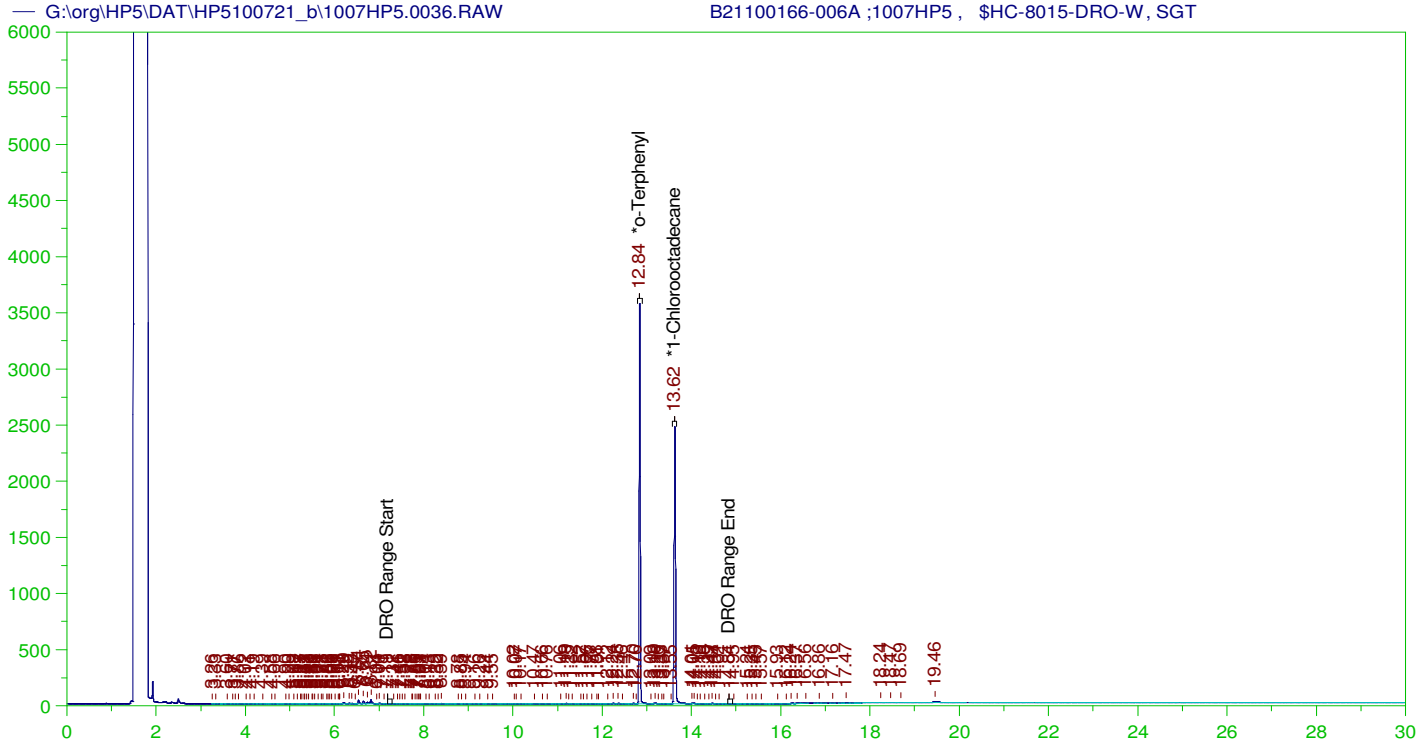
~~RRO~~ Oil Range(SGT-C24-C40)Area:289068.1 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 9.929088E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\035_B21100166-004A_DR_OIL-S-AI-L%.xls

**ERH1763 (RHMW06)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0036.RAW B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0036.RAW
Date & Time Acquired: 10/8/2021 1:02:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

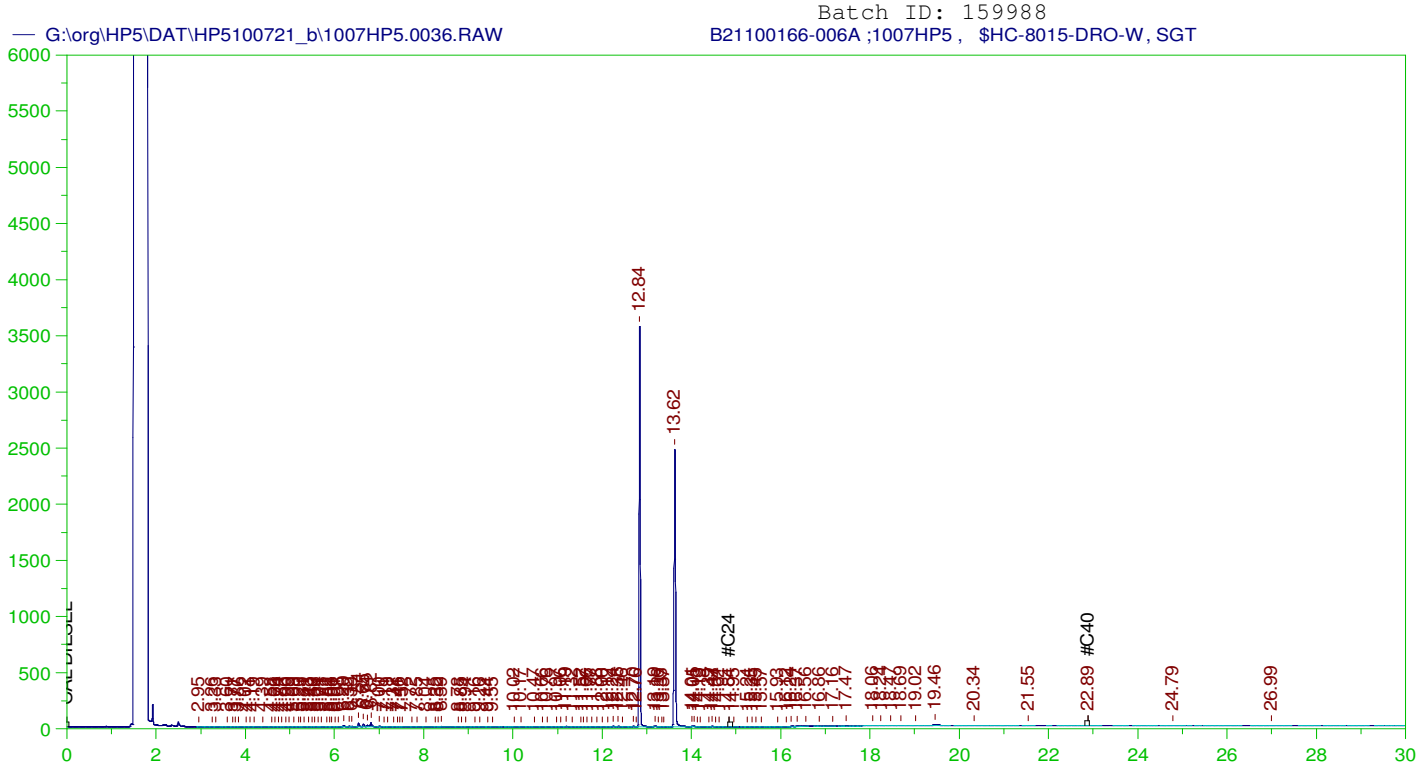
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.839 | .196 | .191 | 97.61 | - |
| *1-Chlorooctadecane | 13.623 | .196 | .151 | 77.18 | - |

DRO (SGT-C10-C24)Area:250125.3 DRO (SGT-C10-C24)Amount: 8.324613E-03
TEH (SGT)Area:805769.7 TEH (SGT)Amount: 2.681744E-02

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\036_B21100166-006A_DR_8015-C24-HR-L%.xls

Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0036.RAW
Date & Time Acquired: 10/8/2021 1:02:38 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

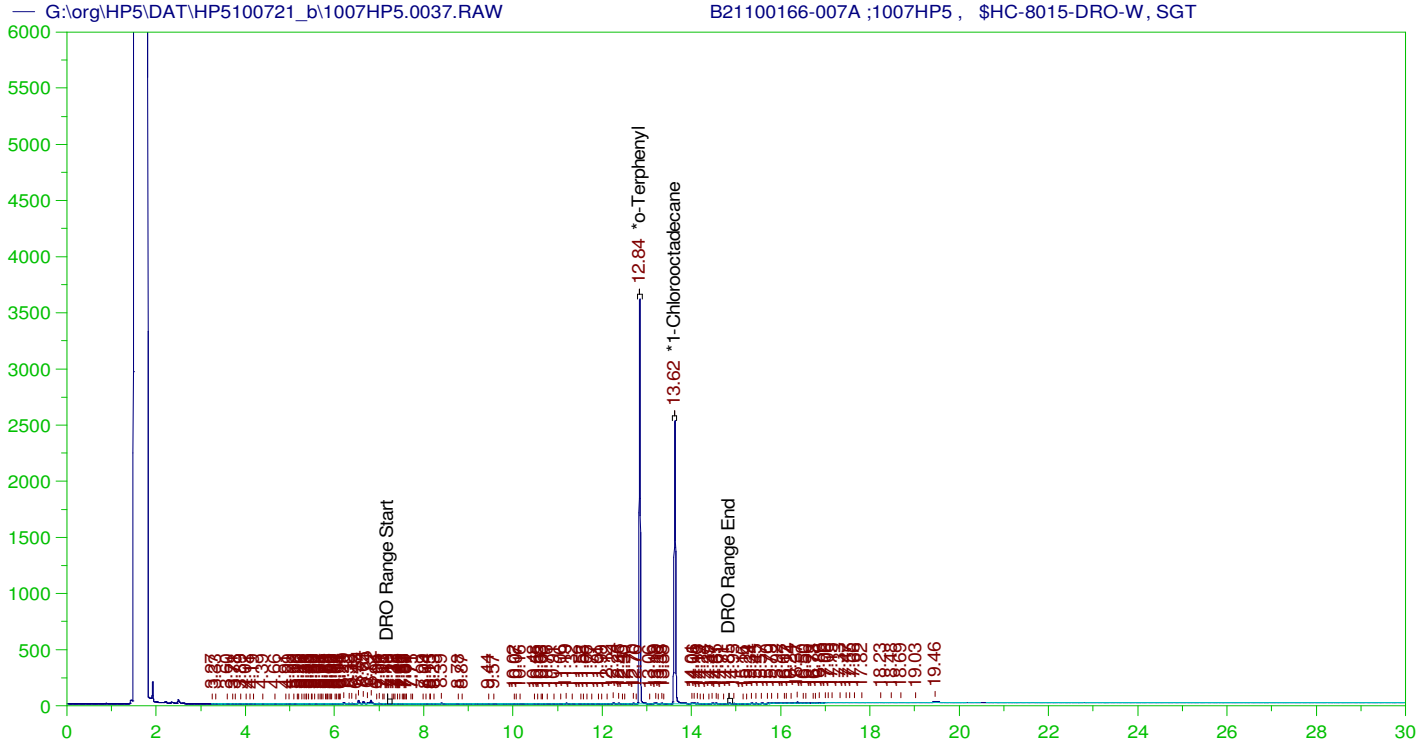
~~RRO~~ Oil Range(SGT-C24-C40)Area:157305.4 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 5.403222E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\036_B21100166-006A_DR_OIL-S-AI-L%.xls

**ERH1768 (RHMW16)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0037.RAW B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0037.RAW
Date & Time Acquired: 10/8/2021 1:49:04 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.839 | .192 | .189 | 98.09 | - |
| *1-Chlorooctadecane | 13.625 | .192 | .151 | 78.48 | - |

DRO (SGT-C10-C24)Area:293540.4 DRO (SGT-C10-C24)Amount: 9.581668E-03
TEH (SGT)Area:875291.1 TEH (SGT)Amount: 2.857102E-02

AMN 10/17/2021

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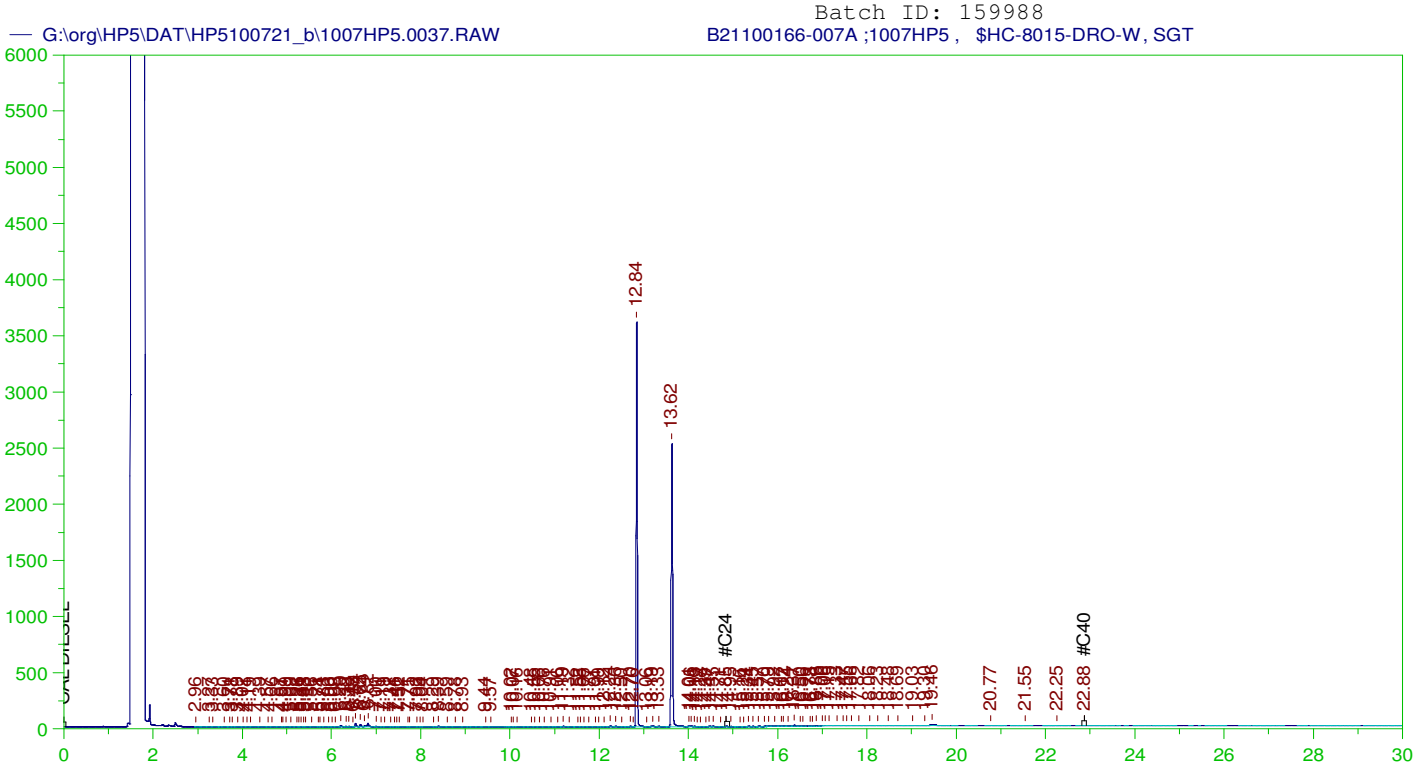
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0037.RAW
Date & Time Acquired: 10/8/2021 1:49:04 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

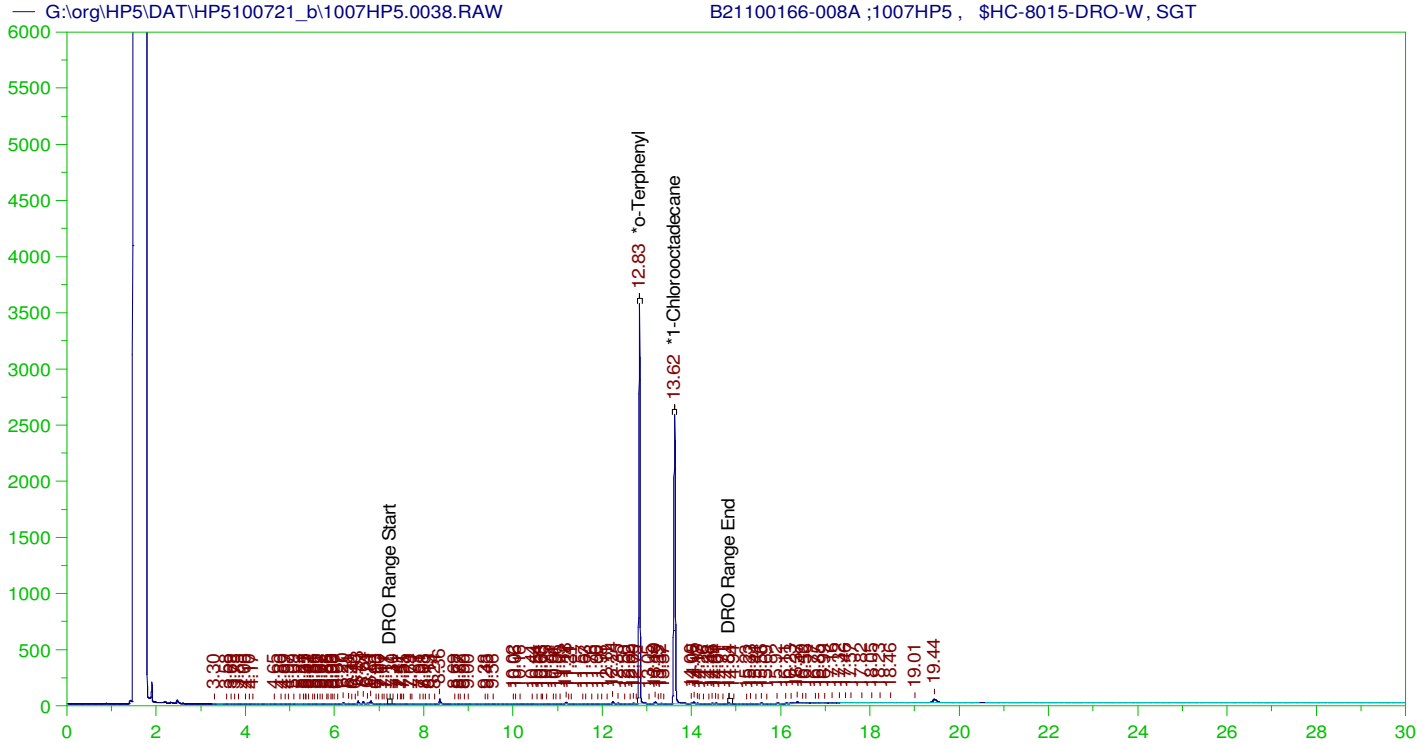
~~RRO~~ Oil Range(SGT-C24-C40)Area:230458.7 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 7.763708E-03

AMN 10/17/2021

G:\org\HP5\dat\HP5100721_b\Review\037_B21100166-007A_DR_OIL-S-AI-L%.xls

**ERH1770 (OWDFMW01)** Batch ID: 159988

— G:\org\HP5\DAT\HP5100721_b\1007HP5.0038.RAW B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0038.RAW
Date & Time Acquired: 10/8/2021 2:37:07 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.917

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.833 | .19 | .185 | 97.48 | - |
| *1-Chlorooctadecane | 13.618 | .19 | .152 | 79.94 | - |

DRO (SGT-C10-C24)Area:520381.4 DRO (SGT-C10-C24)Amount: 1.674465E-02
TEH (SGT)Area:1196080 TEH (SGT)Amount: 3.848703E-02

AMN 10/17/2021

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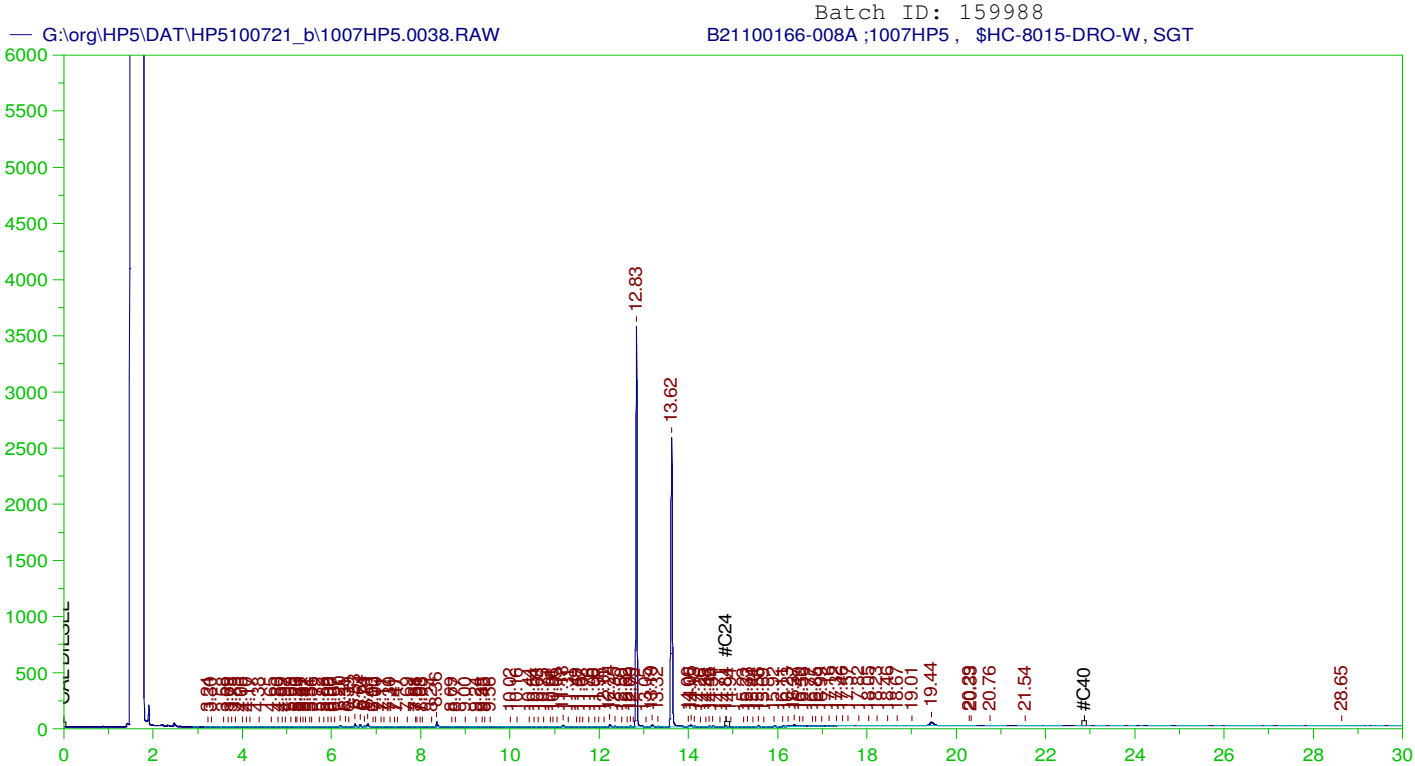
Batch ID: 159988




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0038.RAW
Date & Time Acquired: 10/8/2021 2:37:07 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.817 to 22.92

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:389482.6 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 1.293436E-02

AMN 10/17/2021

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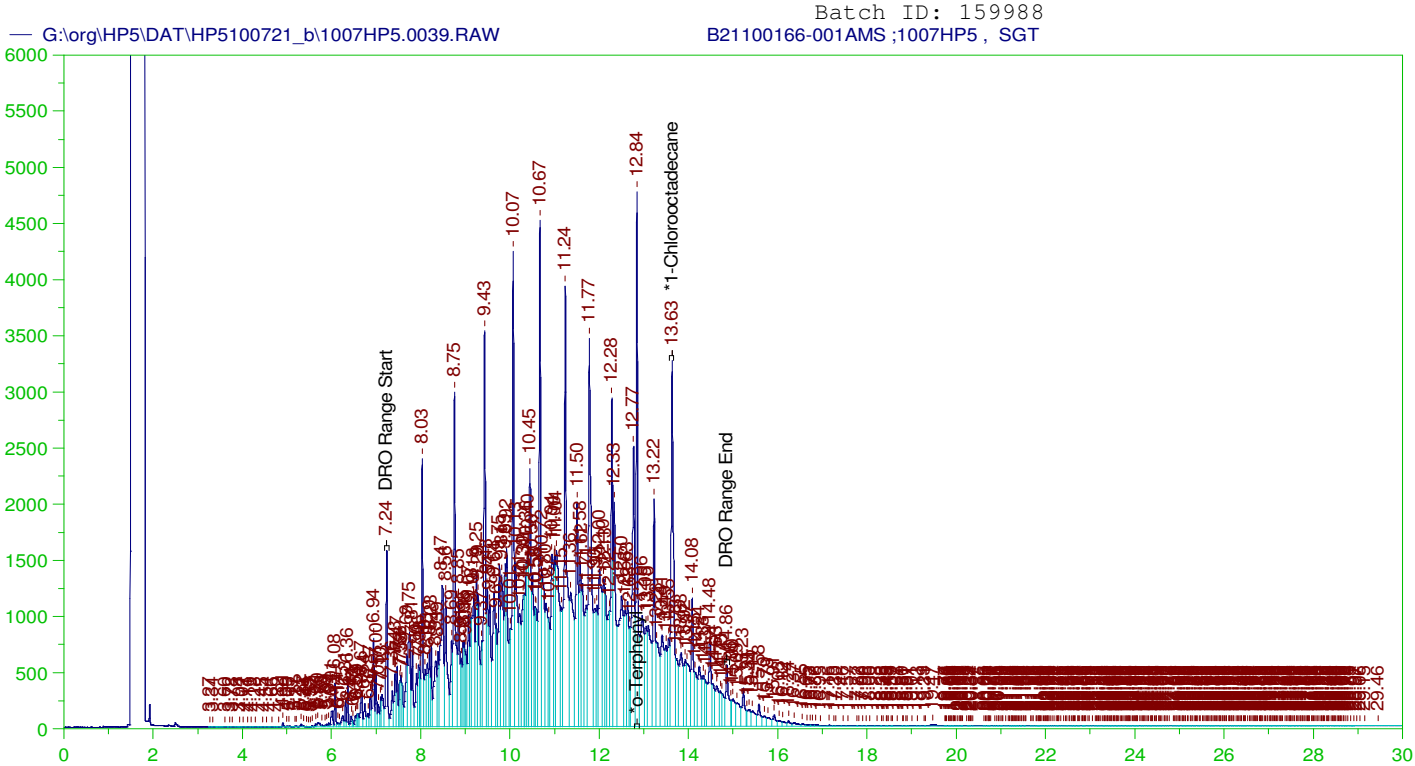
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMS ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0039.RAW
Date & Time Acquired: 10/8/2021 3:23:49 PM
Method File: G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.91

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.843 | .392 | .696 | 177.42 | - |
| *1-Chlorooctadecane | 13.628 | .392 | .685 | 174.73 | - |

DRO (SGT-C10-C24)Area:4.214479E+08 DRO (SGT-C10-C24)Amount: 28.05307
TEH (SGT)Area:4.454884E+08 TEH (SGT)Amount: 29.65329

AMN 10/17/2021

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Batch ID: 159988

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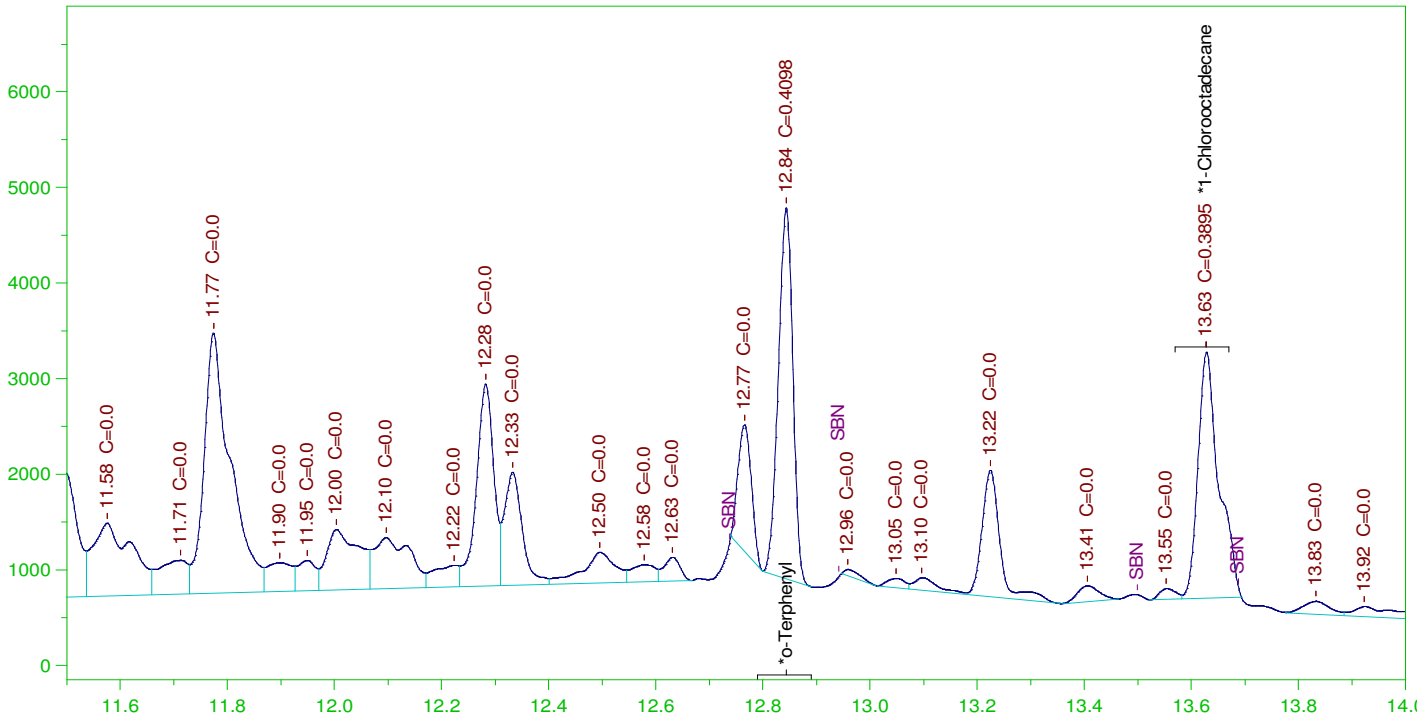


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMS ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0039.RAW
Date & Time Acquired: 10/8/2021 3:23:49 PM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.843 | .392 | .41 | 104.5 | - |
| *1-Chlorooctadecane | 13.628 | .392 | .39 | 99.33 | - |

DRO Area:2.030686E+08 DRO Amount: 13.51696
TEH Area:2.126636E+08 TEH Amount: 14.15564

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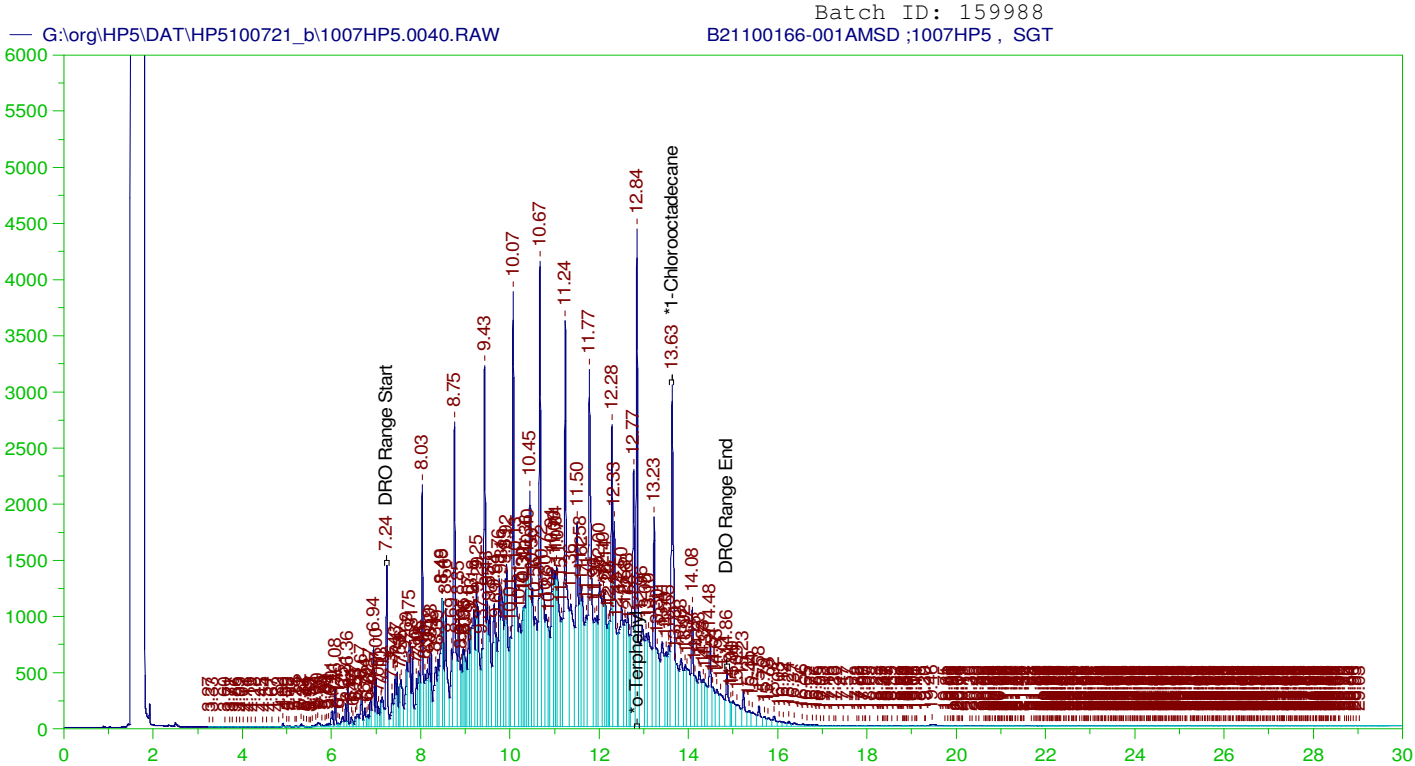


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMSD ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0040.RAW
Date & Time Acquired: 10/8/2021 4:11:27 PM
Method File: G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 7.19 to 14.91

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.844 | .392 | .643 | 163.91 | - |
| *1-Chlorooctadecane | 13.629 | .392 | .635 | 161.92 | - |

DRO (SGT-C10-C24)Area:3.857076E+08 DRO (SGT-C10-C24)Amount: 25.67407
TEH (SGT)Area:4.083618E+08 TEH (SGT)Amount: 27.18201

AMN 10/17/2021

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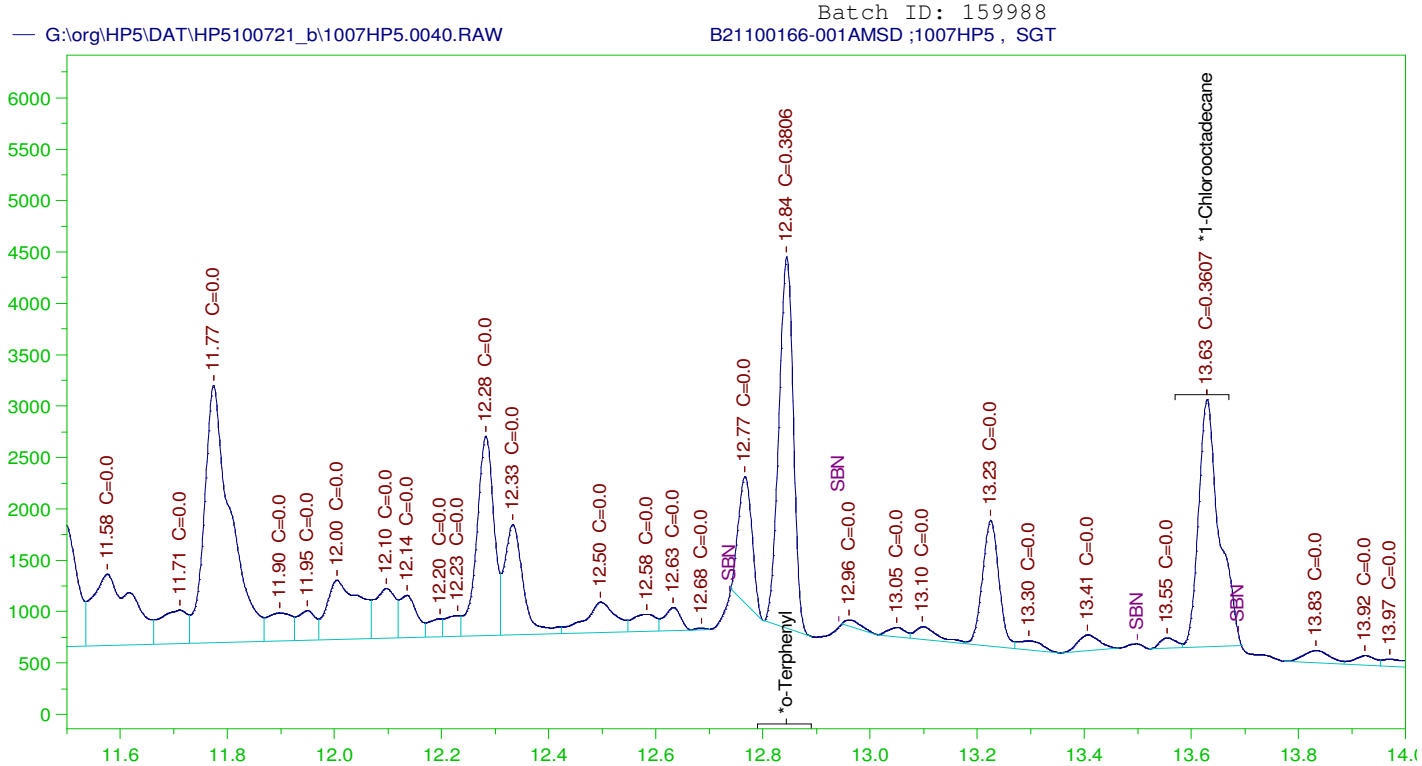
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-001AMSD ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0040.RAW
Date & Time Acquired: 10/8/2021 4:11:27 PM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.844 | .392 | .381 | 97.06 | - |
| *1-Chlorooctadecane | 13.629 | .392 | .361 | 91.98 | - |

DRO Area:1.840827E+08 DRO Amount: 12.2532
TEH Area:1.929852E+08 TEH Amount: 12.84578

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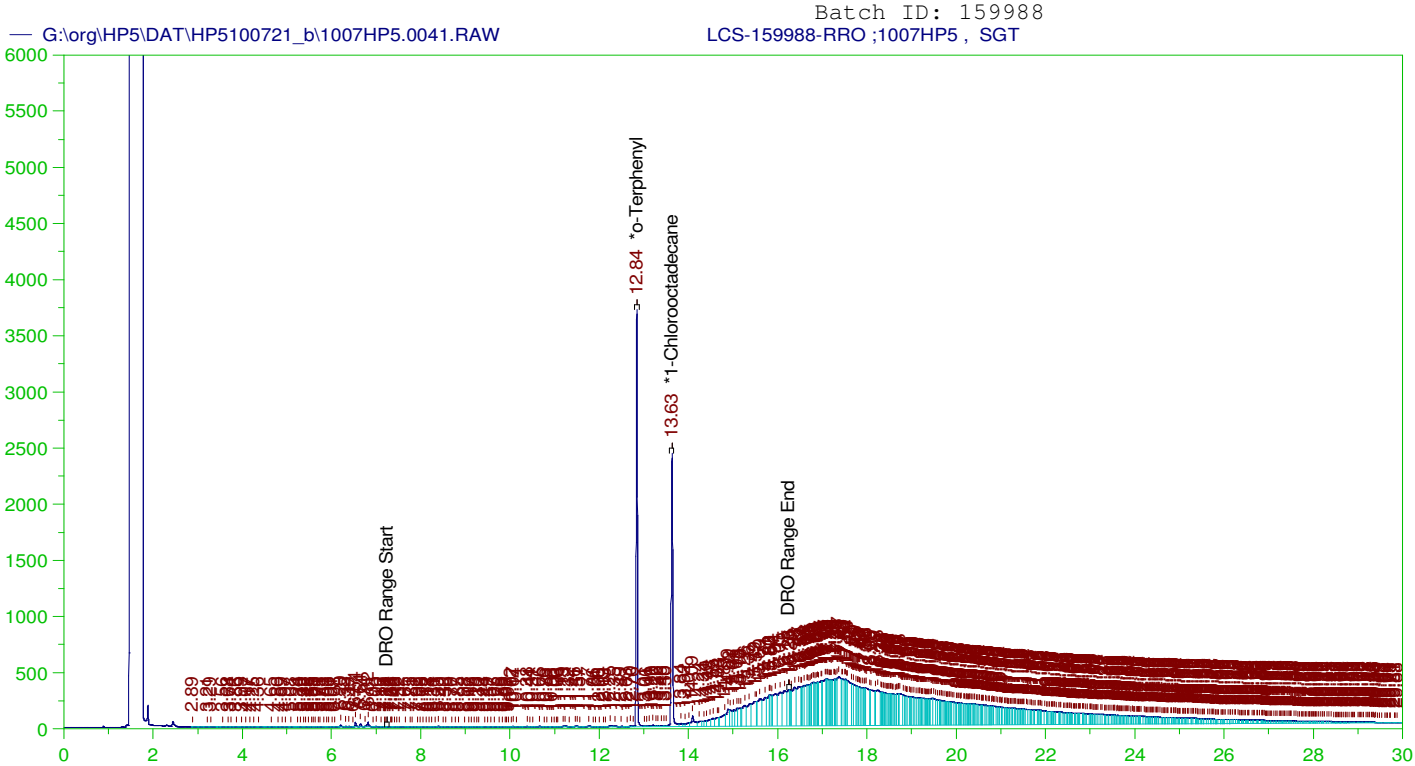
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0041.RAW
Date & Time Acquired: 10/8/2021 5:03:57 PM
Method File: G:\Org\HP5\Methods\D3_OIL-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | .2 | .203 | 101.67 | - |
| *1-Chlorooctadecane | 13.627 | .2 | .157 | 78.37 | - |

DRO Area:2.346369E+07 DRO Amount: 0.8220641
TEH (SGT-OiL Range)Area:1.330542E+08 TEH (SGT-OiL Range)Amount: 4.661633

AMN 10/17/2021

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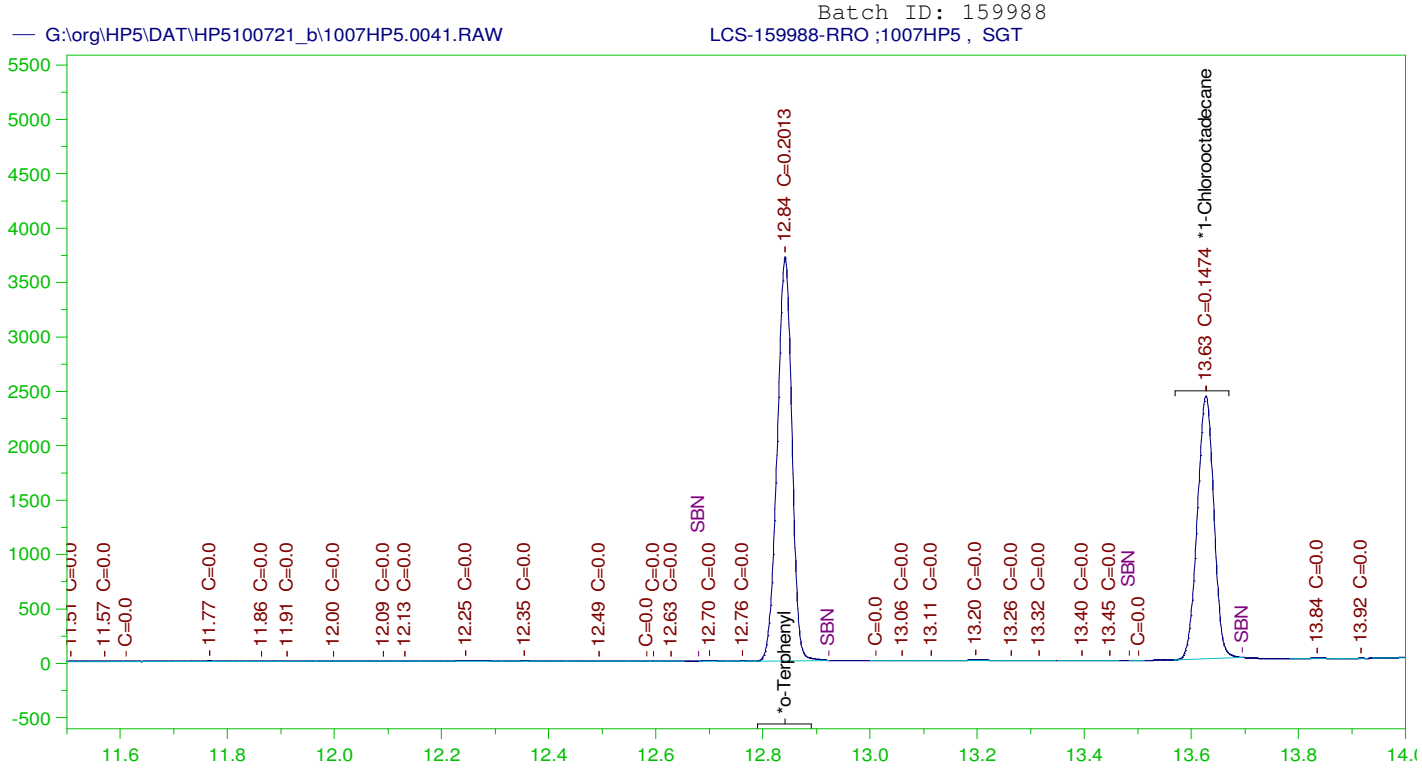
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-159988-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0041.RAW
Date & Time Acquired: 10/8/2021 5:03:57 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | .2 | .201 | 100.65 | - |
| *1-Chlorooctadecane | 13.627 | .2 | .147 | 73.7 | - |

DRO Area:1458702 DRO Amount: 5.110647E-02
TEH Area:2013772 TEH Amount: 7.055368E-02

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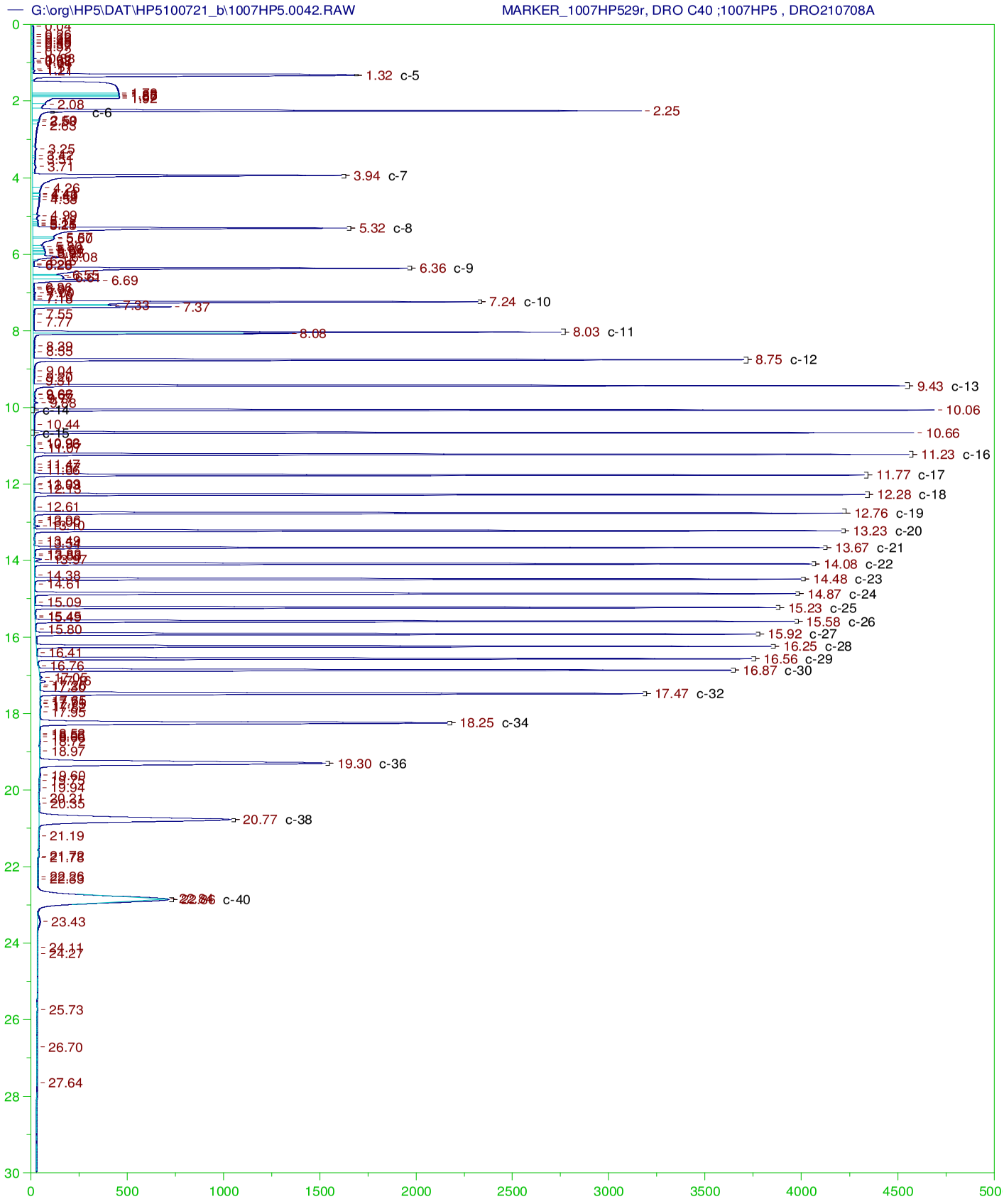
G:\org\HP5\DAT\HP5100721_b\1007HP5.0042.RAW
MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A
1.32 c-5
2.08
c-6
2.25
3.94 c-7
5.32 c-8
6.36 c-9
6.69
7.24 c-10
7.37
8.03 c-11
8.75 c-12
9.43 c-13
c-14
10.06
10.44
c-15
10.66
11.23 c-16
11.77 c-17
12.28 c-18
12.61
12.76 c-19
13.23 c-20
13.67 c-21
14.08 c-22
14.38
14.48 c-23
14.87 c-24
15.09
15.23 c-25
15.58 c-26
15.80
15.92 c-27
16.25 c-28
16.41
16.56 c-29
16.76
16.87 c-30
17.47 c-32
18.25 c-34
18.97
19.30 c-36
20.77 c-38
21.19
c-40
23.43
25.73
26.70
27.64
0
500
1000
1500
2000
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4000
4500
500
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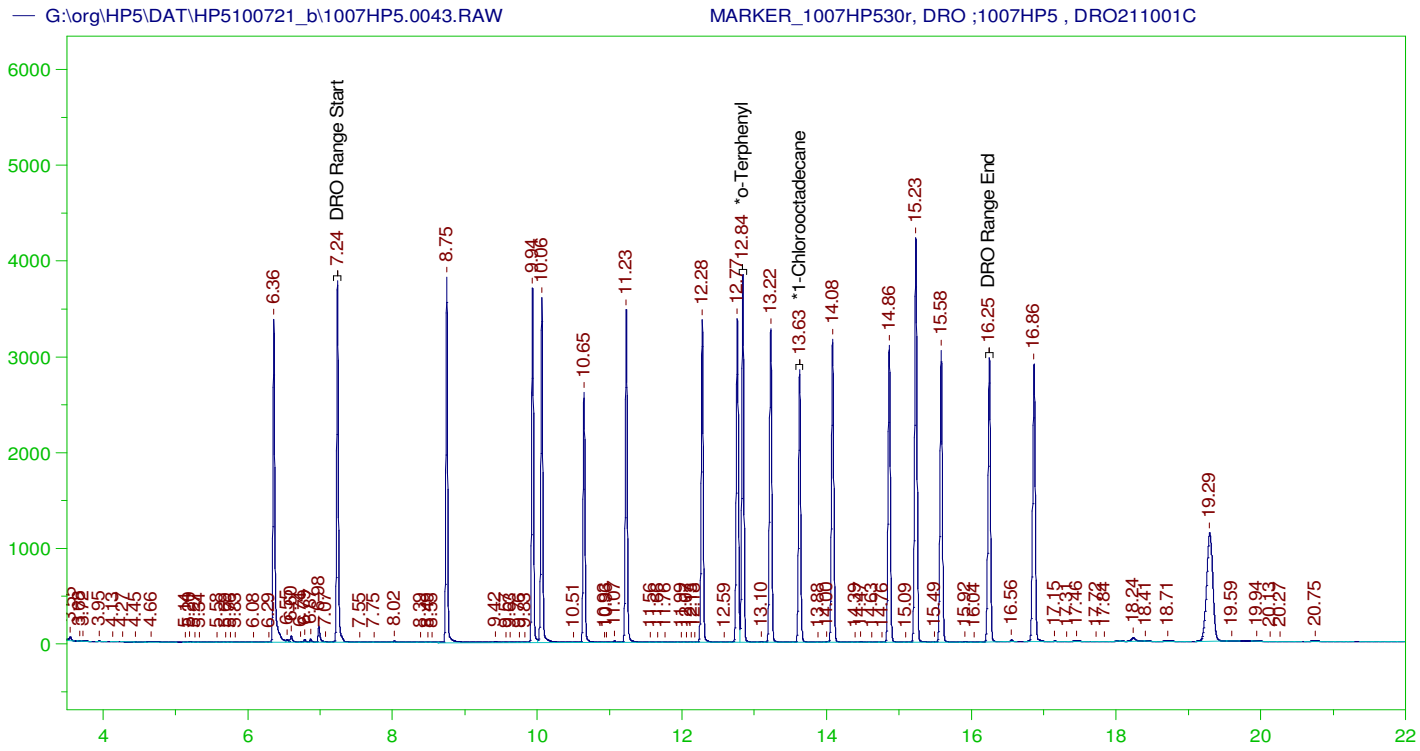


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0043.RAW
Date & Time Acquired: 10/8/2021 6:52:27 PM
Method File: G:\Org\HP5\Methods\DC_8015-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.842 | .2 | .212 | 106.21 | - |
| *1-Chlorooctadecane | 13.626 | .2 | .171 | 85.74 | - |

DRO Area:9.670636E+07 DRO Amount: 3.28293
TEH Area:1.205042E+08 TEH Amount: 4.090804

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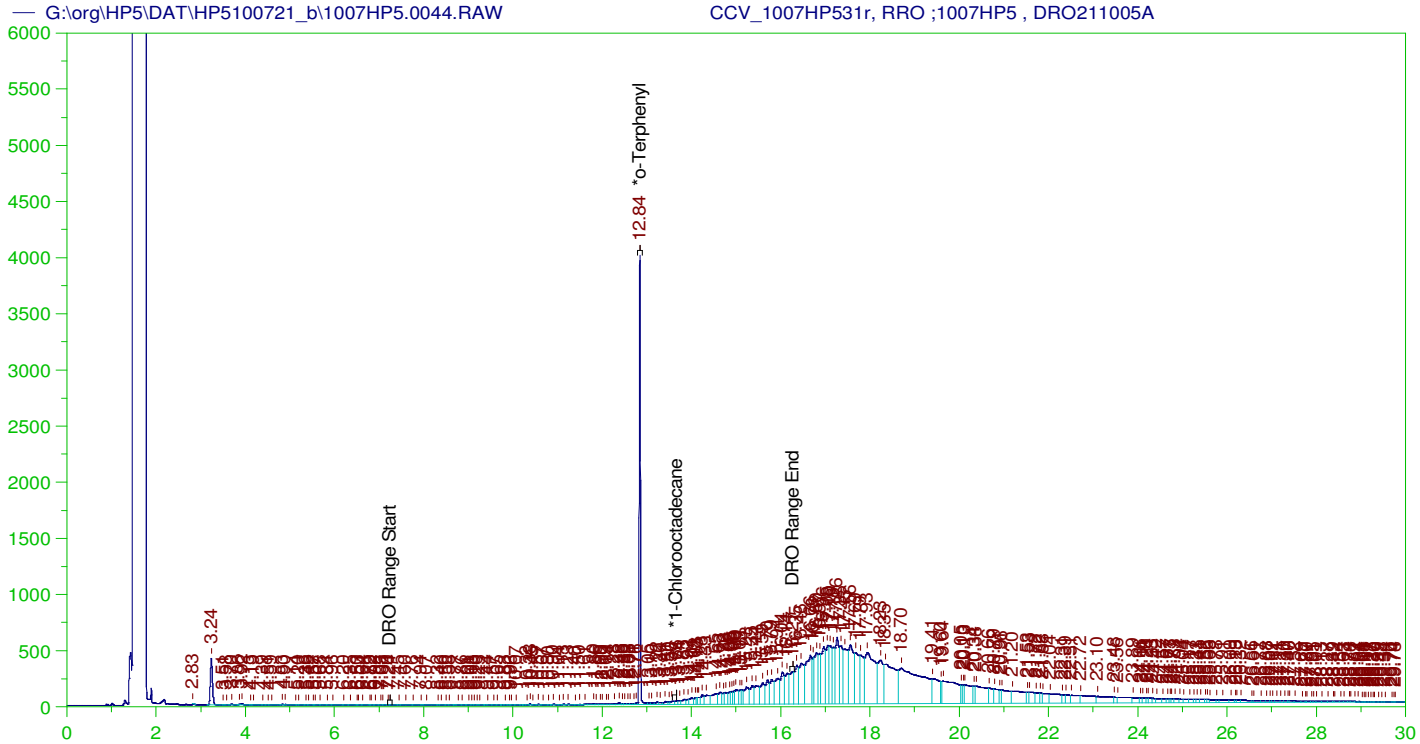


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP531r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0044.RAW
Date & Time Acquired: 10/8/2021 7:44:22 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AI-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | 200. | 221.675 | 110.84 | - |
| *1-Chlorooctadecane | 13.662 | 200. | 4.147 | 2.07 | - |

DRO Area:2.211482E+07 DRO Amount: 774.8056
TEH (Oil Range)Area:1.291513E+08 TEH (Oil Range)Amount: 4524.891

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0044.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4524.89 | 90.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | 200. | 221.675 | 110.84 | 85-115 |
| *1-Chlorooctadecane | 13.662 | 200. | 4.147 | 2.07 | 85-115 |

AMN 10/17/2021

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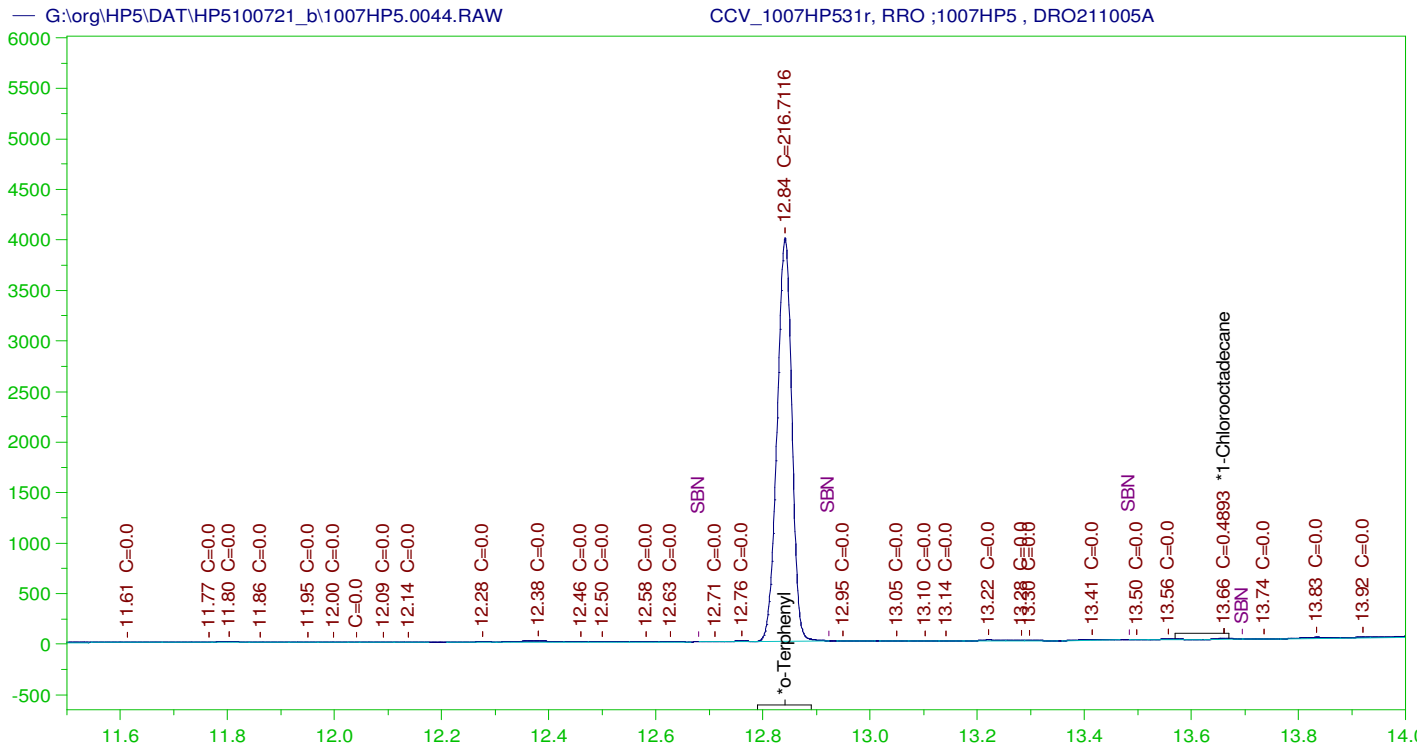


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP531r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0044.RAW
Date & Time Acquired: 10/8/2021 7:44:22 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | 200. | 216.712 | 108.36 | - |
| *1-Chlorooctadecane | 13.662 | 200. | .489 | .24 | - |

DRO Area:1522510 DRO Amount: 53.34203
TEH Area:3229791 TEH Amount: 113.1576

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0044.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 113.16 | 2.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.841 | 200. | 216.712 | 108.36 | 85-115 |
| *1-Chlorooctadecane | 13.662 | 200. | .489 | .24 | 85-115 |

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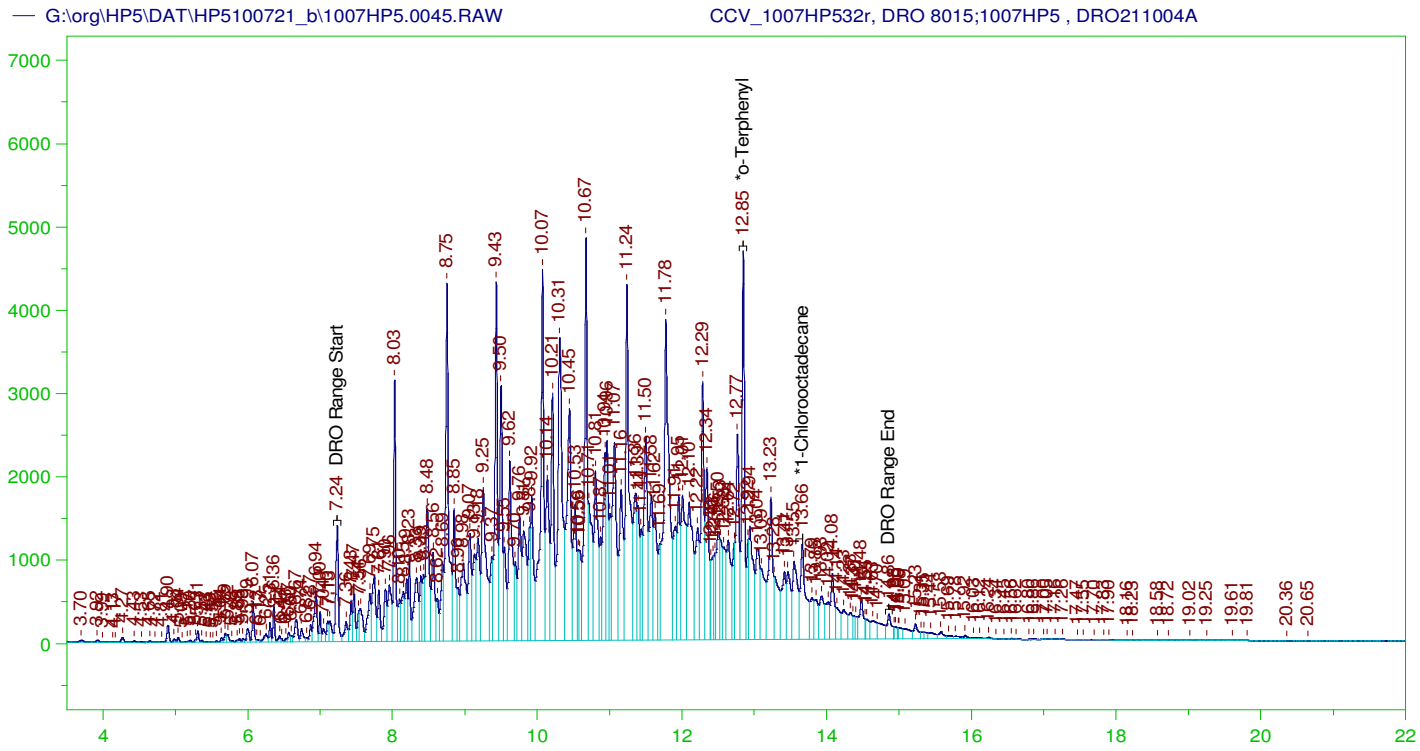


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0045.RAW
Date & Time Acquired: 10/8/2021 8:35:53 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.19 to 14.91

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.848 | 200. | 334.234 | 167.12 | - |
| *1-Chlorooctadecane | 13.663 | 200. | 162.79 | 81.4 | - |

DRO (C10-C24)Area:4.760232E+08 DRO (C10-C24)Amount: 16159.75
TEH Area:4.92418E+08 TEH Amount: 16716.31

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0045.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16716.31 | 111.44 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.848 | 200. | 334.234 | 167.12 | 85-115 |
| *1-Chlorooctadecane | 13.663 | 200. | 162.79 | 81.4 | 85-115 |

AMN 10/17/2021

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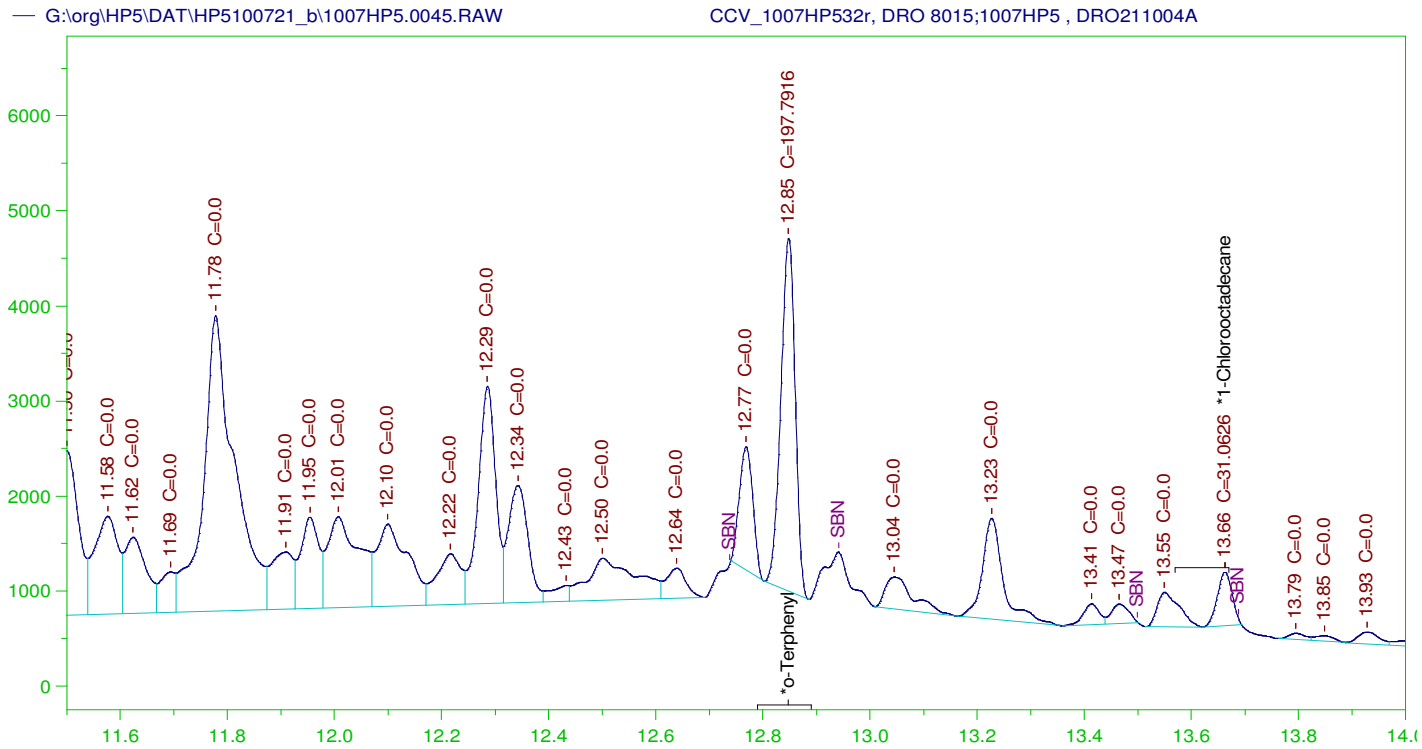



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0045.RAW
Date & Time Acquired: 10/8/2021 8:35:53 PM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.848 | 200. | 197.792 | 98.9 | - |
| *1-Chlorooctadecane | 13.663 | 200. | 31.063 | 15.53 | - |

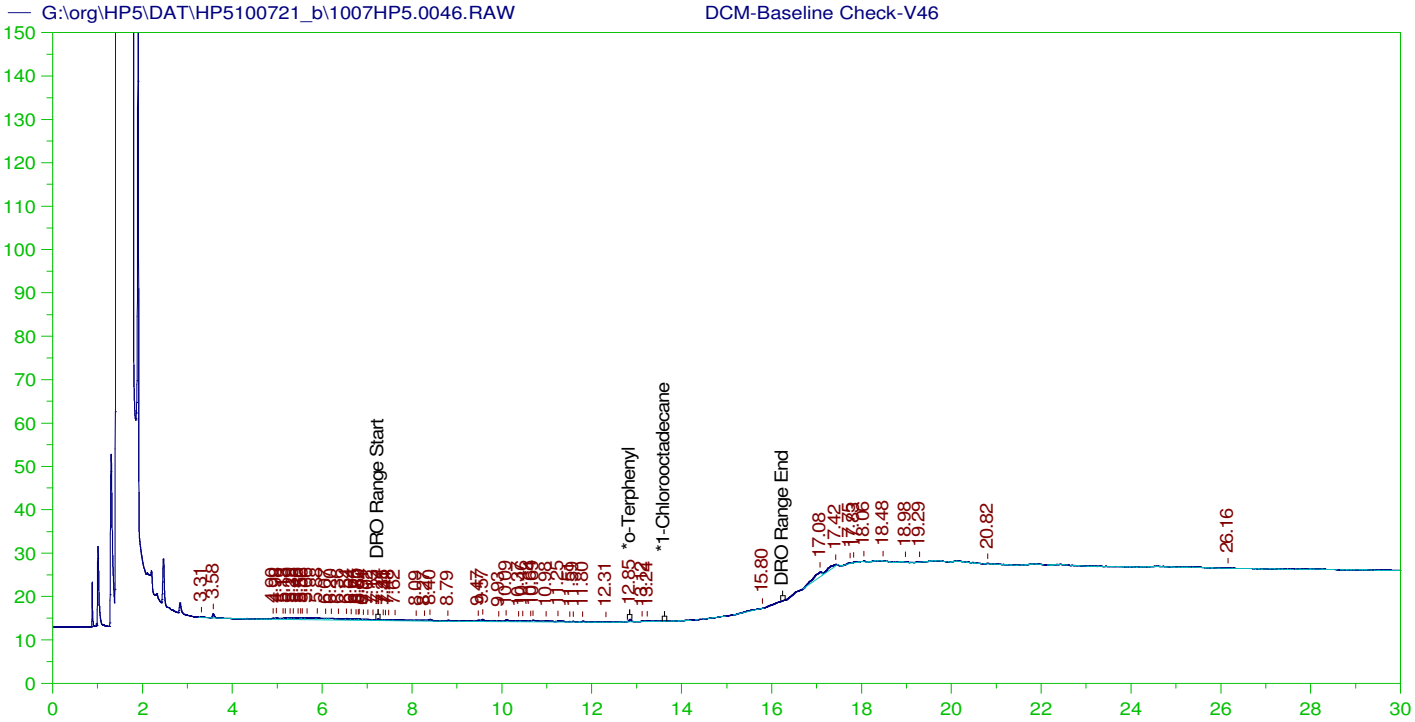
DRO Area:2.652837E+08 DRO Amount: 9005.694
TEH Area:2.756158E+08 TEH Amount: 9356.442

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0045.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9356.44 | 62.38 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.848 | 200. | 197.792 | 98.9 | 85-115 |
| *1-Chlorooctadecane | 13.663 | 200. | 31.063 | 15.53 | 85-115 |

G:\org\HP5\dat\HP5100721_b\Review\045_CCV_1007HP532r_DS_8015-HR-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V46
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0046.RAW
Date & Time Acquired: 10/8/2021 9:28:18 PM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

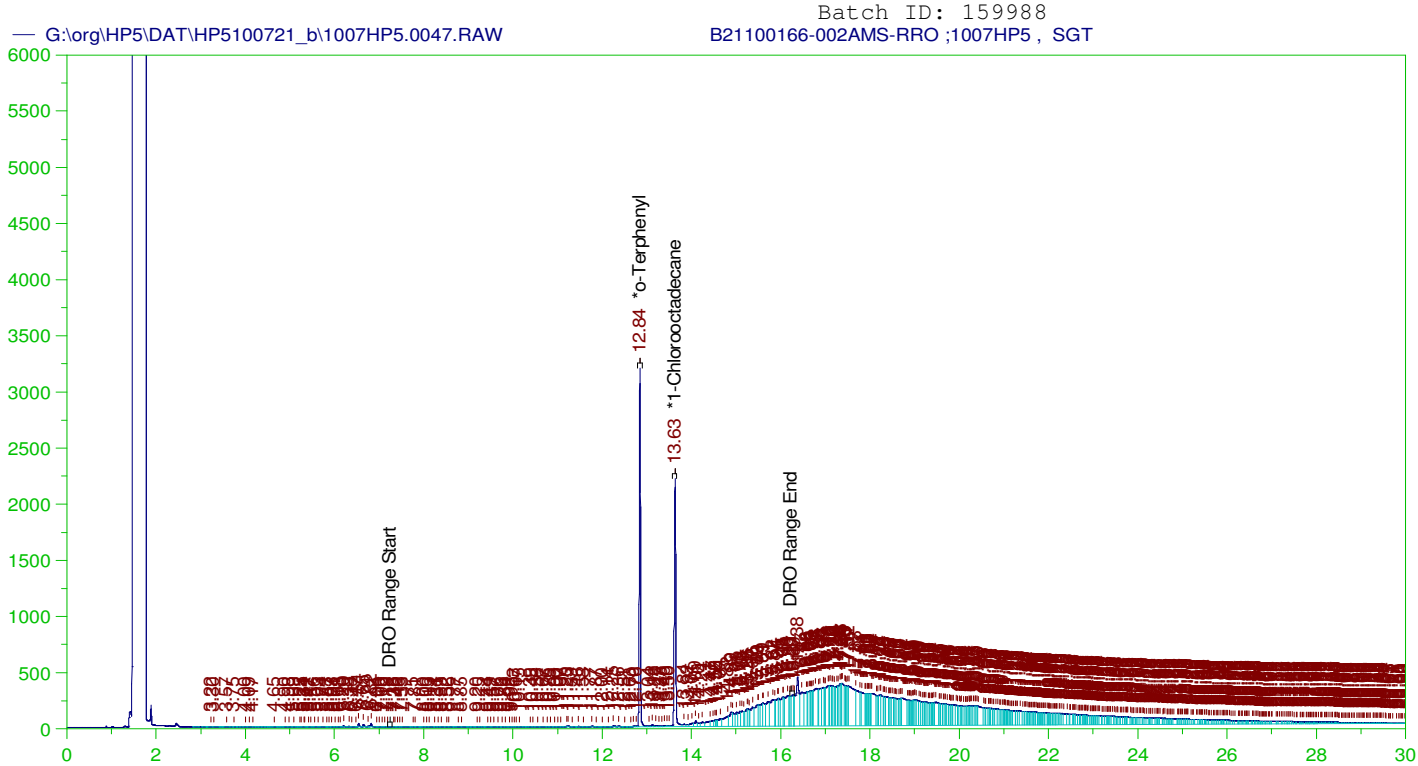
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.846 | 200. | .061 | .03 | - |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | - |

DRO Area:44316.23 DRO Amount: 1.504421
TEH Area:141883.9 TEH Amount: 4.816589

G:\org\HP5\dat\HP5100721_b\Review\046_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMS-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0047.RAW
Date & Time Acquired: 10/8/2021 10:22:18 PM
Method File: G:\Org\HP5\Methods\D3_OIL-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.843 | .381 | .337 | 88.34 | - |
| *1-Chlorooctadecane | 13.628 | .381 | .267 | 70.13 | - |

DRO Area:1.994599E+07 DRO Amount: 1.331084
TEH (SGT-Oil Range)Area:1.154696E+08 TEH (SGT-Oil Range)Amount: 7.705797

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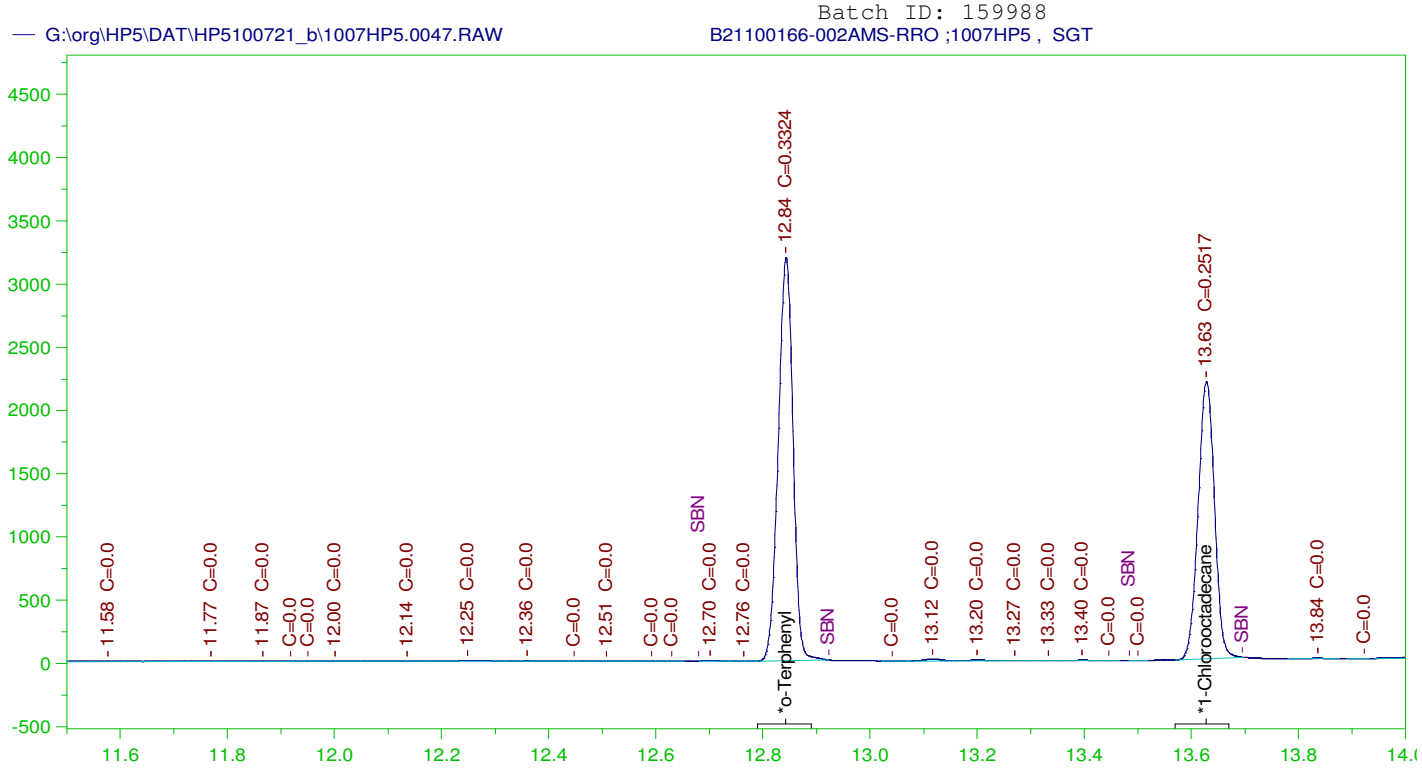
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMS-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0047.RAW
Date & Time Acquired: 10/8/2021 10:22:18 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.843 | .381 | .332 | 87.26 | - |
| *1-Chlorooctadecane | 13.628 | .381 | .252 | 66.08 | - |

DRO Area:1213865 DRO Amount: 8.100661E-02
TEH Area:1654407 TEH Amount: 0.1104059

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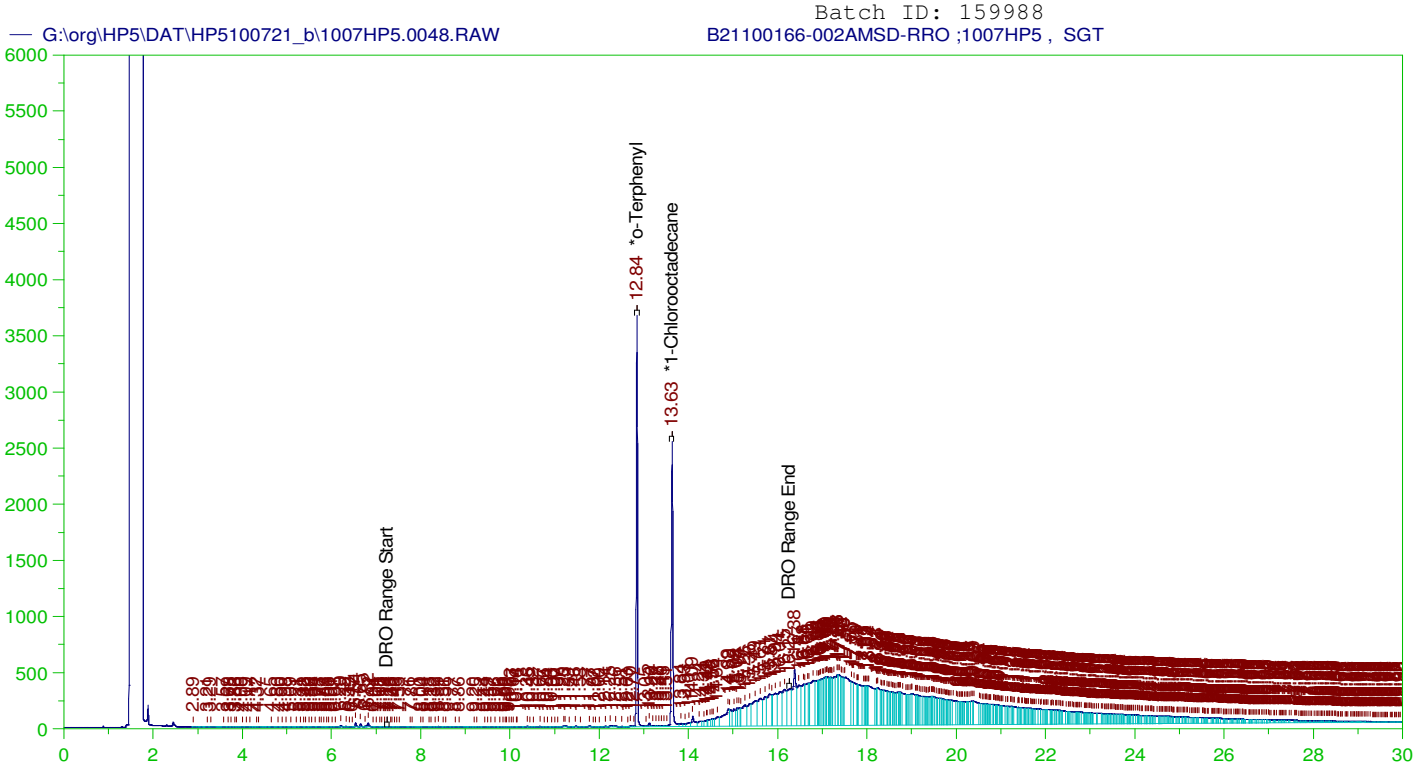
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMSD-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0048.RAW
Date & Time Acquired: 10/8/2021 11:15:48 PM
Method File: G:\Org\HP5\Methods\D3_OIL-AI-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.845 | .381 | .383 | 100.47 | - |
| *1-Chlorooctadecane | 13.63 | .381 | .305 | 80.02 | - |

DRO Area:2.40054E+07 DRO Amount: 1.601987
TEH (SGT-Oil Range)Area:1.407567E+08 TEH (SGT-Oil Range)Amount: 9.393323

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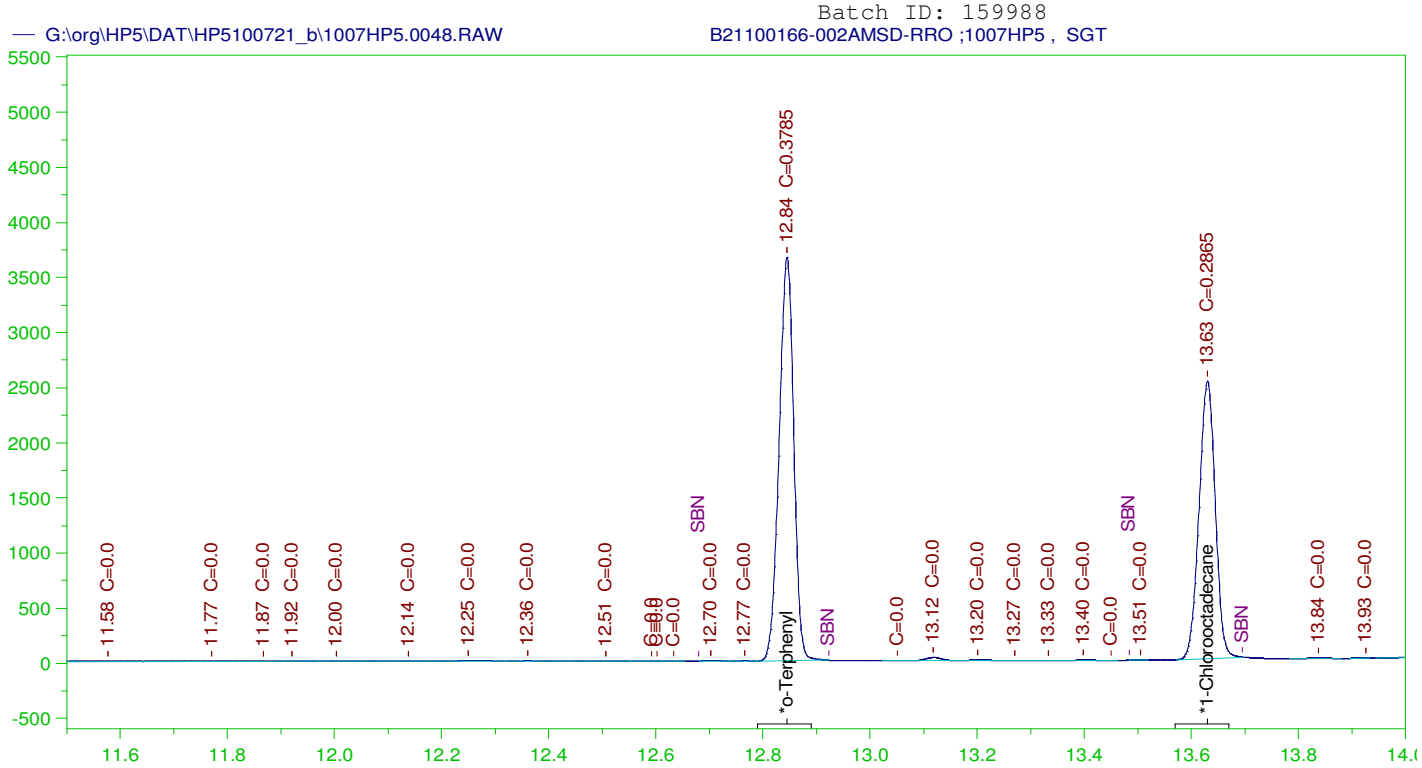
Batch ID: 159988




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100166-002AMSD-RRO ;1007HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0048.RAW
Date & Time Acquired: 10/8/2021 11:15:48 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.845 | .381 | .379 | 99.36 | - |
| *1-Chlorooctadecane | 13.63 | .381 | .287 | 75.21 | - |

DRO Area:1509673 DRO Amount: 0.1007472
TEH Area:2020149 TEH Amount: 0.1348135

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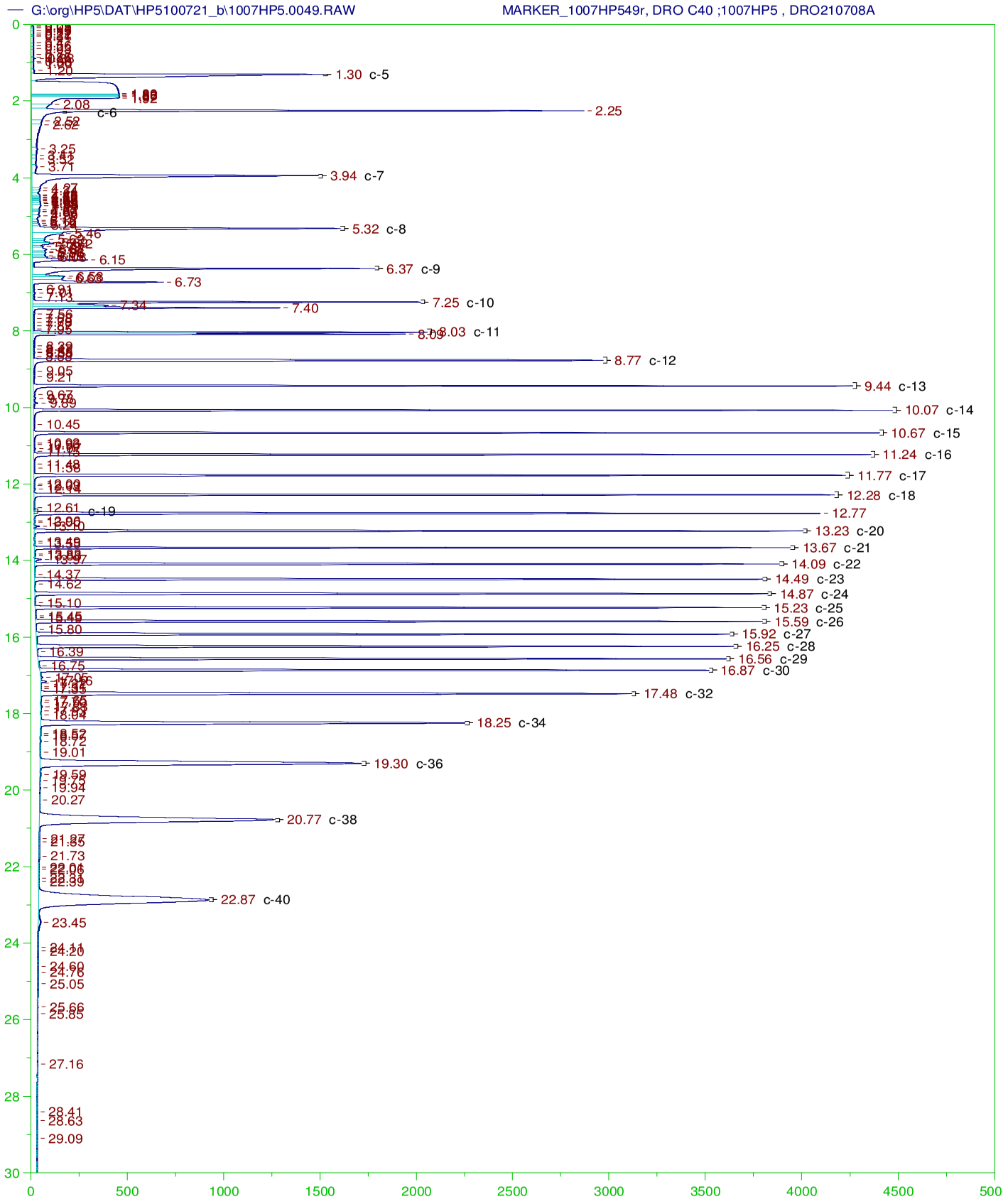
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MARKER_1007HP549r, DRO C40 ;1007HP5 , DRO210708A
1.30 c-5
2.08 c-6
2.25
3.94 c-7
5.32 c-8
6.15
6.37 c-9
6.73
7.25 c-10
7.34
7.40
8.03 c-11
8.77 c-12
9.44 c-13
10.07 c-14
10.45
10.67 c-15
11.24 c-16
11.77 c-17
12.28 c-18
12.61 c-19
12.77
13.23 c-20
13.67 c-21
14.09 c-22
14.37
14.49 c-23
14.62
14.87 c-24
15.10
15.23 c-25
15.59 c-26
15.80
15.92 c-27
16.25 c-28
16.39
16.56 c-29
16.75
16.87 c-30
17.48 c-32
18.25 c-34
19.01
19.30 c-36
20.27
20.77 c-38
21.73
22.87 c-40
23.45
25.05
27.16
28.41
28.63
29.09
0
500
1000
1500
2000
2500
3000
3500
4000
4500
500
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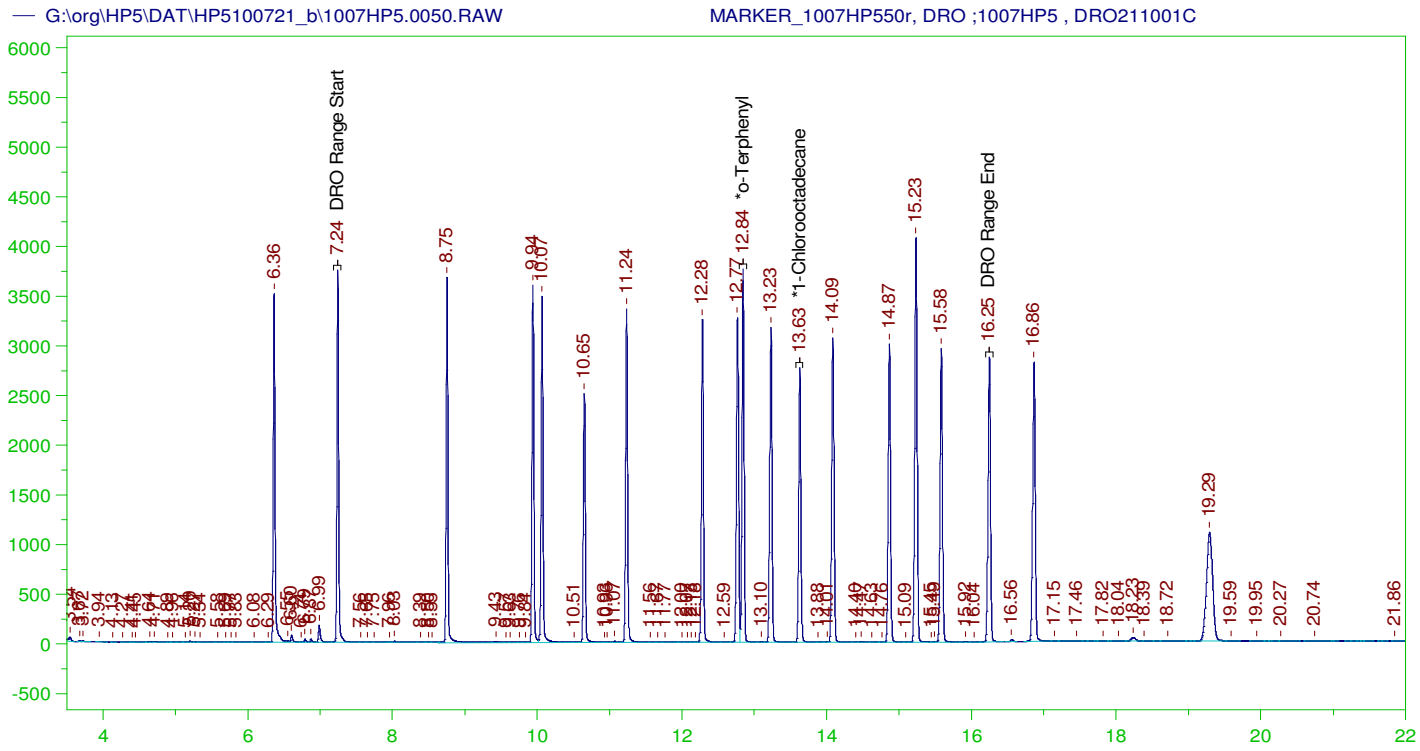


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1007HP550r, DRO ;1007HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0050.RAW
Date & Time Acquired: 10/9/2021 1:02:48 AM
Method File: G:\Org\HP5\Methods\DC_8015-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.845 | 200. | 205.944 | 102.97 | - |
| *1-Chlorooctadecane | 13.629 | 200. | 165.858 | 82.93 | - |

DRO Area:9.352969E+07 DRO Amount: 3175.09
TEH Area:1.158345E+08 TEH Amount: 3932.281

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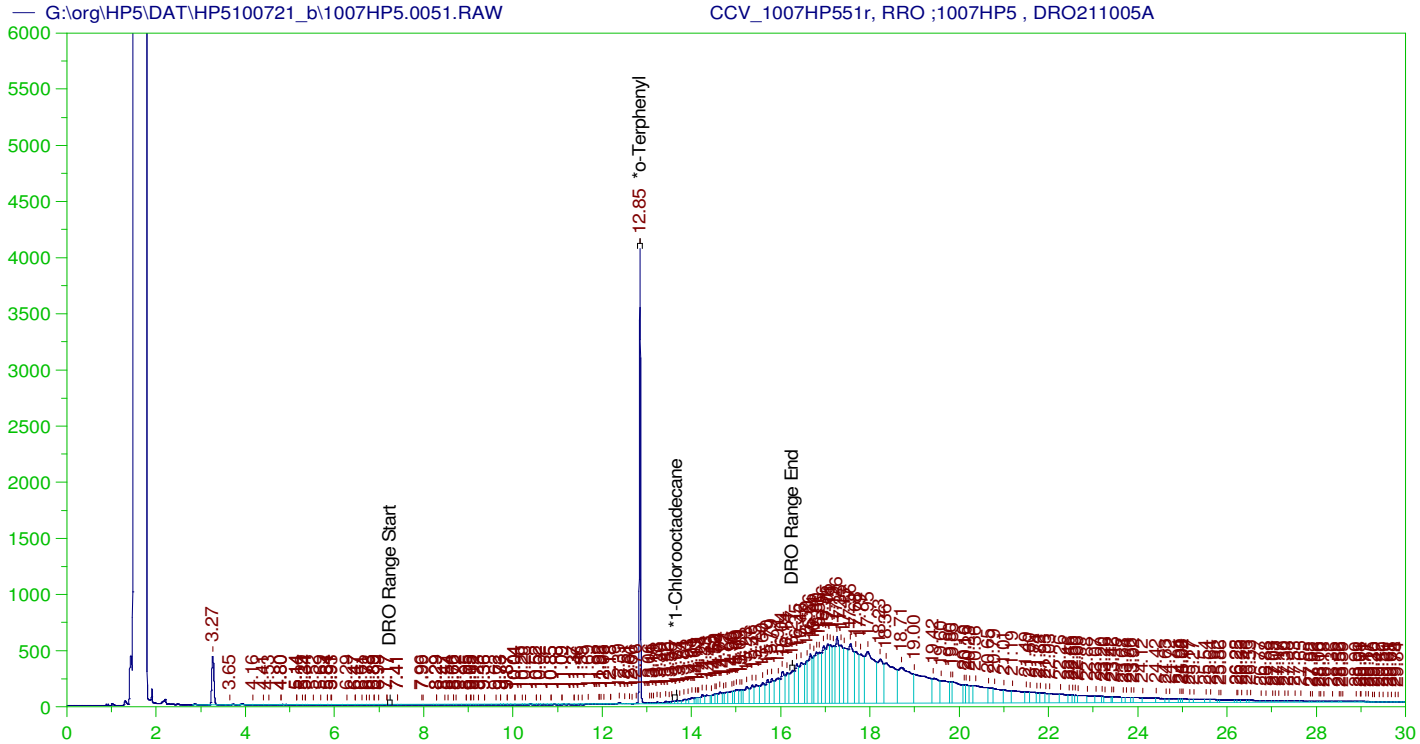


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP551r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0051.RAW
Date & Time Acquired: 10/9/2021 1:57:03 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AI-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AI.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.846 | 200. | 222.099 | 111.05 | - |
| *1-Chlorooctadecane | 13.666 | 200. | 3.292 | 1.65 | - |

DRO Area:2.285799E+07 DRO Amount: 800.843
TEH (Oil Range)Area:1.296645E+08 TEH (Oil Range)Amount: 4542.87

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0051.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4542.87 | 90.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.846 | 200. | 222.099 | 111.05 | 85-115 |
| *1-Chlorooctadecane | 13.666 | 200. | 3.292 | 1.65 | 85-115 |

AMN 10/17/2021

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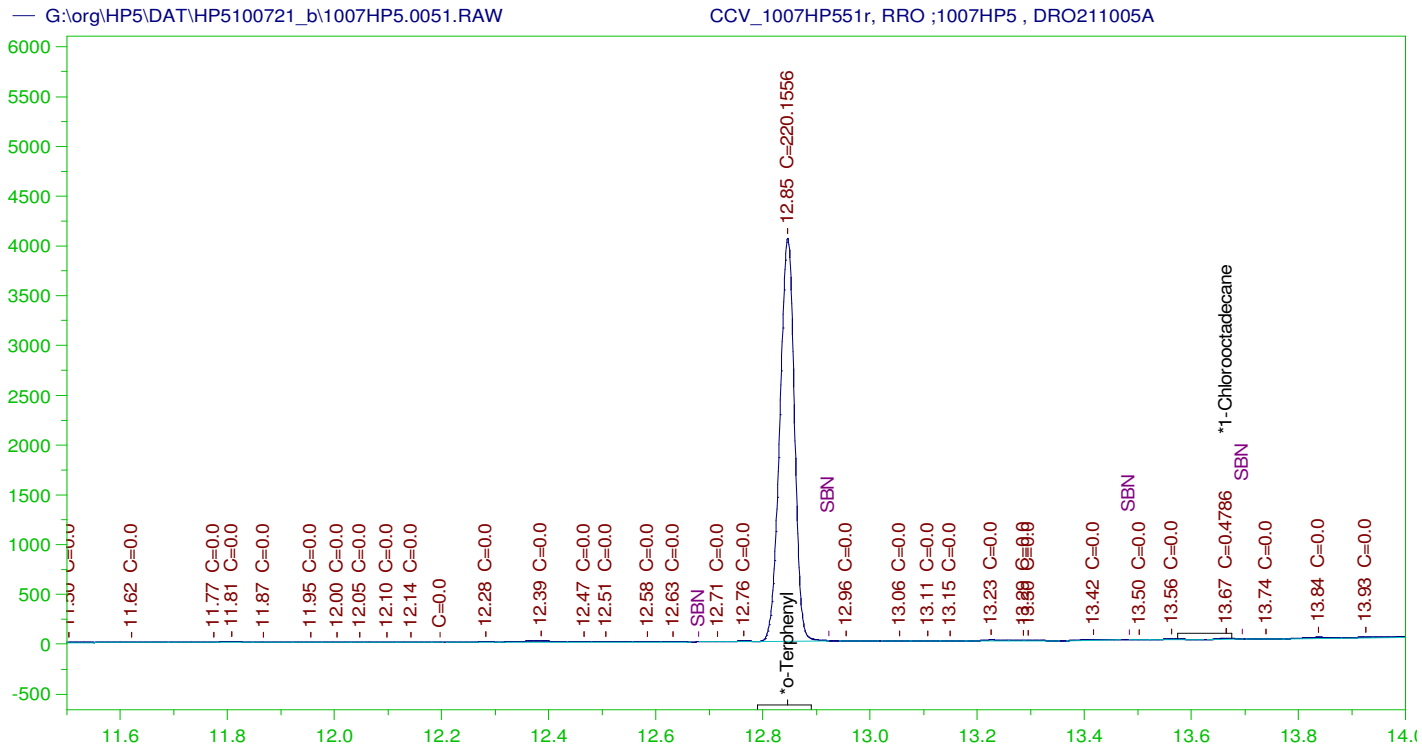


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP551r, RRO ;1007HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0051.RAW
Date & Time Acquired: 10/9/2021 1:57:03 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AI-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Ai.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.846 | 200. | 220.156 | 110.08 | - |
| *1-Chlorooctadecane | 13.666 | 200. | .479 | .24 | - |

DRO Area:1531585 DRO Amount: 53.65996
TEH Area:3241651 TEH Amount: 113.5731

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0051.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 113.57 | 2.27 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.846 | 200. | 220.156 | 110.08 | 85-115 |
| *1-Chlorooctadecane | 13.666 | 200. | .479 | .24 | 85-115 |

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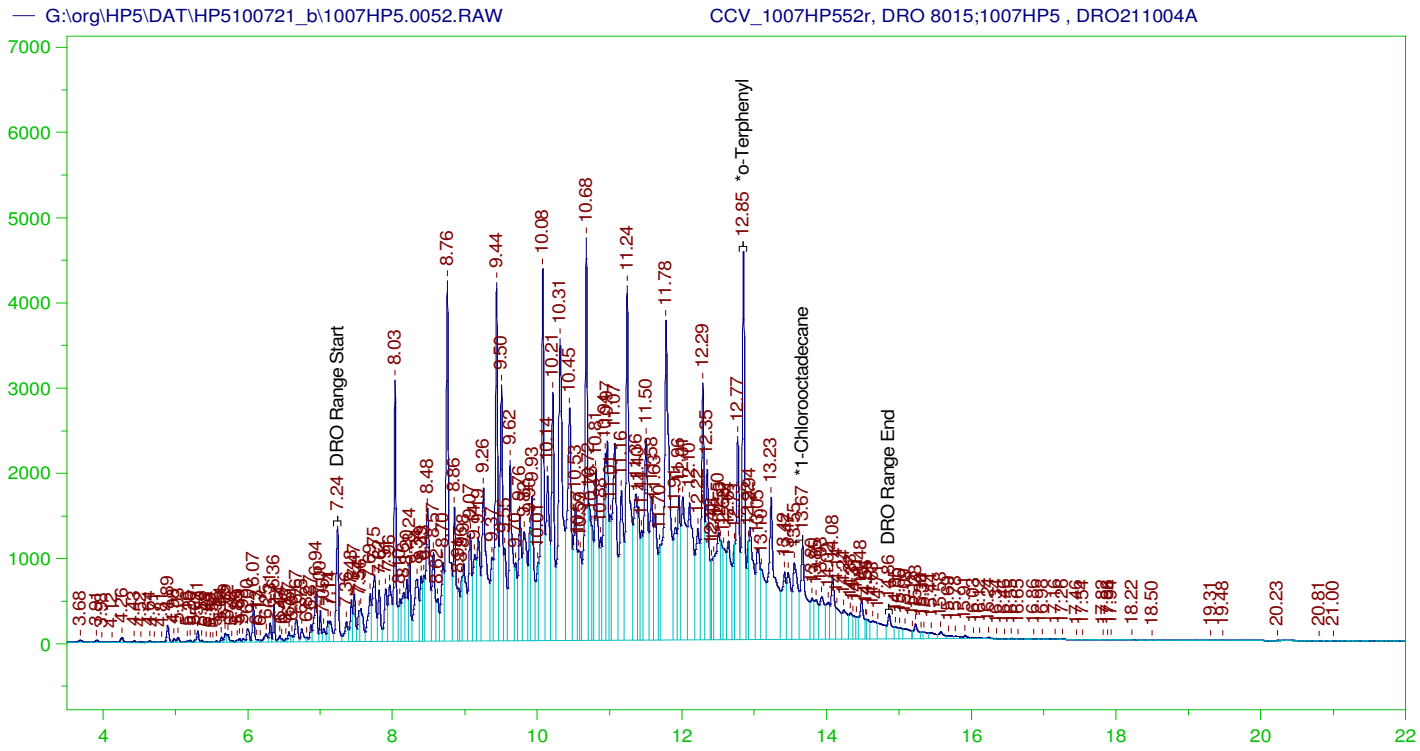


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP552r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0052.RAW
Date & Time Acquired: 10/9/2021 2:50:39 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 7.19 to 14.91

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.851 | 200. | 323.839 | 161.92 | - |
| *1-Chlorooctadecane | 13.666 | 200. | 156.949 | 78.47 | - |

DRO (C10-C24)Area:4.614134E+08 DRO (C10-C24)Amount: 15663.79
TEH Area:4.773375E+08 TEH Amount: 16204.37

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0052.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16204.37 | 108.03 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.851 | 200. | 323.839 | 161.92 | 85-115 |
| *1-Chlorooctadecane | 13.666 | 200. | 156.949 | 78.47 | 85-115 |

AMN 10/17/2021

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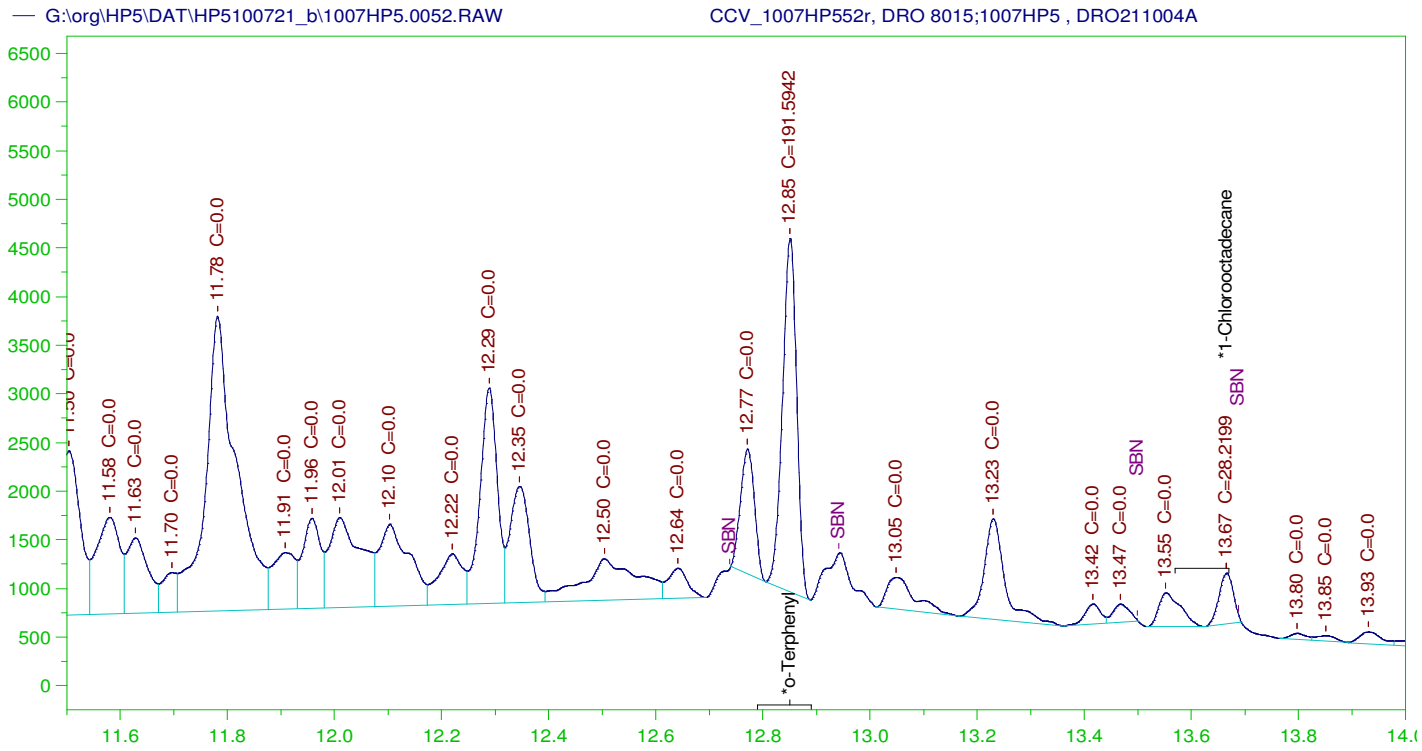



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1007HP552r, DRO 8015;1007HP5 , DRO211004A
Raw File: G:\org\HP5\DAT\HP5100721_b\1007HP5.0052.RAW
Date & Time Acquired: 10/9/2021 2:50:39 AM
Method File: G:\Org\HP5\Methods\DS_8015-HR-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hr.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.851 | 200. | 191.594 | 95.8 | - |
| *1-Chlorooctadecane | 13.666 | 200. | 28.22 | 14.11 | - |

DRO Area:2.566481E+08 DRO Amount: 8712.538
TEH Area:2.668088E+08 TEH Amount: 9057.467

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5100721_b\1007HP5.0052.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9057.47 | 60.38 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.851 | 200. | 191.594 | 95.8 | 85-115 |
| *1-Chlorooctadecane | 13.666 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5100721_b\Review\052_CCV_1007HP552r_DS_8015-HR-L#.xls

Write Sequence | Insert Entries(Have the first cell for entries selected)

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5100721_b\1007HP5.16r | MARKER_1007HP516r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.17r | MARKER_1007HP517r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.18r | CCV_1007HP518r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.19r | CCV_1007HP519r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.24r | LCS-159988 ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100724-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Set Baseline at 28.47, peak width adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.25r | MB-159988 ;1007HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.26r | B21100166-001A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1010 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.27r | B21100166-002A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.28r | B21100166-005A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.29r | MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.30r | MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.31r | CCV_1007HP531r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.32r | CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.33r | DCM-Baseline Check-V33 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.34r | B21100166-003A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.35r | B21100166-004A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.36r | B21100166-006A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.37r | B21100166-007A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.38r | B21100166-008A ;1007HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AI-L%.MET | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.39r | B21100166-001AMS ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 510 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.40r | B21100166-001AMSD ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_8015-100739-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 510 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.41r | LCS-159988-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.42r | MARKER_1007HP529r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.43r | MARKER_1007HP530r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.44r | CCV_1007HP531r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.45r | CCV_1007HP532r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.46r | DCM-Baseline Check-V46 | G:\Org\HP5\Methods\DR_8015-HR-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.47r | B21100166-002AMS-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.48r | B21100166-002AMSD-RRO ;1007HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AI-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.49r | MARKER_1007HP549r, DRO C40 ;1007HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211007.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.50r | MARKER_1007HP550r, DRO ;1007HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HR-L%.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.51r | CCV_1007HP551r, RRO ;1007HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AI-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AI-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.68 and slightly after the surrogate peak at 12.92 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5100721_b\1007HP5.52r | CCV_1007HP552r, DRO 8015;1007HP5 , DRO211004A | G:\Org\HP5\Methods\DC_8015-C24-HR-L%.met<br>G:\Org\HP5\Methods\DS_8015-HR-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.74 and slightly after the surrogate peak at 12.94 and scaling showing surrogate peak from 11.5-14. |

Ann Nebel



Digitally signed by
Ann Nebel
Date: 2021.10.20 15:35:14 -06:00

# ANALYTICAL SUMMARY REPORT

October 27, 2021

AECOM - Honolulu
1001 Bishop Street, Suite 1600
Honolulu HI, 96813-3698

Work Order: B21100756 Quote ID: 5912

Project Name: CV18F0126/60571032.02.20.01

Energy Laboratories Inc Billings MT received the following 1 samples from AECOM - Honolulu on 10/8/2021 for analysis.

| Lab ID | Client Sample ID | Collect Date | Received Date | Matrix | Test |
|---|---|---|---|---|---|
| B21100756-001 | ERH1777 (RHSF, Pre-Chlorination) | 10/02/21 12:40 | 10/08/2021 | Drinking Water | DRO-Liquid-Liquid Extraction SW3520C<br>Diesel Range Organics SW8015C |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

**CLIENT:** AECOM - Honolulu
**Project:** CV18F0126/60571032.02.20.01
**Work Order:** B21100756

**Report Date:** 10/27/2021

# CASE NARRATIVE

General Comments:

For any question please contact your Project Manager at (406) 252-6325 or billingspm@energylab.com..

All analyses have been performed in accordance with DOD QSM Version 5.3 unless otherwise noted below. The specific methodologies used in obtaining the enclosed analytical results are indicated on the Analytical Summary Report and the Laboratory Analytical Report. The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted in the Work Order Receipt Checklist.

The tests listed below are accredited and meet the requirements of DoD QSM Version 5.3 as verified by ANSI-ASQ National Accreditation Board (ANAB) certificate number ADE-2588. Exceptions to this require client authorization and records documenting this approval are attached in the Sample Management Records. Accreditation may not be offered or required for all methods and analytes reported in this package. Refer to the certificate and scope of accreditation located at https://www.energylab.com/whyus/certifications-quality-control/ or contact your project manager.

Project specific matrix quality control samples may not be reported if site specific samples were not submitted. Matrix quality control samples were performed on project samples where adequate volume was available. All quality control measures met criteria unless otherwise noted in the Analytical QC Exceptions report and in the Analysis Specific Comments below.  Where available, sample management records are attached.

The Level IV Validation Package includes data reports for all analyses associated with the instrument calibration, quality control (QC) sample analysis, and sample analysis. All analytical data is within method specifications except as noted in the Analytical QC Exceptions report or the Analysis Specific Comments below. The analytical report identifies preparation batch and analytical run IDs associated with each result for a sample. Only the raw data associated with the parameters listed on this report should be validated.

Analysis Specific Comments:

An Analytical QC Exceptions Report has been attached, summarizing all qualified QC results.  All quality control measures met criteria; therefore there were no analytical QC exceptions on this report.

ENERGY LABORATORIES
Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record

DoD Samples

www.energylab.com

COC# 202110-05 NOI Page 1 of 1

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (If different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |
| Special Report/Formats. | ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____ |

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2 business days; Level IV report in 3 weeks.
4. Note "non-PO" on invoice.

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. CV18F0126/60571032.02.20.01 | |
| Sampler Name JK, MM | Sampler Phone 808-927-3240 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO | EPA 8015 TPH-DRO/RRO w / SGC | | | | | | | | See Attached | RUSH TAT | [redacted] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1777 (RHSF, Pre-chlorination) | 10/02/2021 | 8.40 am | 2 | W | ✔ | ✔ | | | | | | | | | X | B21100756 |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

MY 10/2/21

**ELI is REQUIRED to provide preservative traceability** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Matthew Yim | 10/2/21 1230 | Matthew Yim | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | [illegible] | 10/8/21 09:15 | |

**LABORATORY USE ONLY**

| Shipped By | Cooler ID(s) | Custody Seals Y N C B | Intact Y N | Receipt Temp °C | Temp Blank Y N | On Ice Y N | Payment Type CC Cash Check_____ | Amount $ | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

# Work Order Receipt Checklist

## AECOM - Honolulu

## B21100756

| | | | |
|---|---|---|---|
| Login completed by: | Taylor K. Burris | Date Received: | 10/8/2021 |
| Reviewed by: | BL2000\darcy | Received by: | dac |
| Reviewed Date: | 10/9/2021 | Carrier name: | FedEx |

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all sample bottles? | Yes ☑ | No ☐ | Not Present ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes ☑ | No ☐ | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Applicable ☐ |
| Container/Temp Blank temperature: | 18.2°C Melted Ice | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | Not Applicable ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | Not Applicable ☐ |

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### Contact and Corrective Action Comments:

The collection time indicated on the Chain of Custody for all samples is in Hawaii-Aleutian Standard Time. The collection time has been converted (+4 Hours) to Mountain Daylight Time.

All samples were received in client provided containers using client provided preservative. Energy Laboratories sample preservation traceability is not available.

The sample was received outside of temperature compliance. Proceed with analysis outside of temperature compliance per email from Alethea Ramos of AECOM on 10/8/21.

# Qualifiers and Abbreviations

| Qualifier | Qualifier Description |
|---|---|
| ## | Limit of Quantitation (LOQ) for this analyte exceeds the Maximum Contaminant Level (MCL) |
| * | Result exceeds the Maximum Contaminant Level (MCL) |
| A | The analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated |
| B | Analyte detected in the method blank |
| C | Continuing calibration verification was outside of the quality control advisory limits |
| D | Limit of Quantitation (LOQ) increased due to sample matrix |
| E | Estimated value - result exceeds the instrument upper quantitation limit |
| H | Analysis performed past the method holding time |
| J | The reported result is an estimated value |
| L | Lowest Limit of Quantitation (LOQ) available for the analytical method used |
| N | Analyte concentration was not sufficiently high to calculate a Relative Percent Difference (RPD) for the serial dilution test |
| O | Diluted out |
| P | Poor method performance - method validations have shown no recoveries at low concentrations or method performance was erratic |
| Q | Values reported below the Limit of Quantitation (LOQ) are statistically invalid |
| R | Relative Percent Difference (RPD) exceeds advisory limit |
| S | Spike recovery outside of advisory limits |
| T | Analyte detected in the associated trip blank |
| U | Not detected at the Limit of Detection (LOD) |
| V | The RPD value for this duplicate represents the RER value and the RPDLimit of 2 is the RER upper limit. |

# Qualifiers and Abbreviations

## Abbreviation

| Reporting | Explanation of Abbreviation |
|---|---|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MCL | Maximum Contaminant Level |
| MDC | Minimum Detectable Concentration |
| ND | Not detected at the Limit of Quantitaton (LOQ) |
| RBSL | Risk-Based Screening Levels |
| REC | Recovery |
| RER | Relative Error Ratio |
| RPD | Relative Percent Difference |
| SPK | Spike |

| Sample Types | Explanation of Abbreviation |
|---|---|
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification Standard |
| DUP | Sample Duplicate |
| ICSA | Interference Check Sample A |
| ICSAB | Interference Check Sample AB |
| ICV | Initial Calibration Verification Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LFB | Laboratory Fortified Blank |
| LRB | Laboratory Reagent Blank |
| MBLK | Method Blank |
| MS | Sample Matrix Spike |
| MSD | Sample Matrix Spike Duplicate |
| PDS | Post Digestion/Distillation Spike |
| QCS | Quality Control Sample |
| SD | Serial Dilution |
| SRM | Standard Reference Material |

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1777 (RHSF, Pre-Chlorination)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21100756-001
**Collection Date:** 10/02/2021 12:40
**Date Received:** 10/08/2021
**Report Date:** 10/27/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/11/2021 22:28/amn | GCFID-HP5-B_211011A : 6 | 160178 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.084 | | SW8015C | 10/11/2021 22:28/amn | GCFID-HP5-B_211011A : 6 | 160178 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.072 | | SW8015C | 10/11/2021 22:28/amn | GCFID-HP5-B_211011A : 6 | 160178 |
| Surr: o-Terphenyl | 77.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/11/2021 22:28/amn | GCFID-HP5-B_211011A : 6 | 160178 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100756
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 10/27/2021

**Run ID: Run Order:** GCFID-HP5-B_211011A: 5 **SampType:** Method Blank **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/11/2021 21:45 **Prep Date:** 10/09/2021 12:12
**Lab ID:** MB-160178 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl | 0.18 | 0.0020 | 0.20 | | 89.0 | 56 | 125 | | | | |

Associated Samples: **B21100756-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 4 **SampType:** Laboratory Control Sample **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/11/2021 21:02 **Prep Date:** 10/09/2021 12:12
**Lab ID:** LCS-160178 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 14 | 0.30 | 15 | | 94.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 101.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.19 | 0.0020 | 0.20 | | 95.0 | 56 | 125 | | | | |

Associated Samples: **B21100756-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 20 **SampType:** Laboratory Control Sample **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/12/2021 17:00 **Prep Date:** 10/09/2021 12:13
**Lab ID:** LCS-160178-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.5 | 0.30 | 5.0 | | 90.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.18 | 0.0020 | 0.20 | | 91.0 | 56 | 125 | | | | |

Associated Samples: **B21100756-001A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100756
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 10/27/2021

**Run ID: Run Order:** GCFID-HP5-B_211011A: 21 **SampType:** Sample Matrix Spike **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/12/2021 18:26 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.3 | 0.59 | 9.8 | 0.68 | 88.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.32 | 0.0039 | 0.39 | 0.00 | 81.0 | 56 | 125 | | | | |

Associated Samples: **B21100756-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 22 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/12/2021 19:53 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.1 | 0.59 | 9.8 | 0.68 | 86.0 | 41 | 113 | 9.3 | 2.1 | 20.0 | |
| Surr: o-Terphenyl | 0.35 | 0.0039 | 0.39 | 0.00 | 90.0 | 56 | 125 | 0.00 | | | |

Associated Samples: **B21100756-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 23 **SampType:** Sample Matrix Spike **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/12/2021 21:19 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.57 | 28 | 0.49 | 108.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 34 | 0.57 | 28 | 0.93 | 116.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.38 | 0.0038 | 0.38 | 0.00 | 100.0 | 56 | 125 | | | | |

Associated Samples: **B21100756-001A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100756
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 10/27/2021

**Run ID: Run Order:** GCFID-HP5-B_211011A: 24 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/12/2021 22:46 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.57 | 28 | 0.49 | 107.0 | 36 | 132 | 31 | 0.4 | 20.0 | |
| Total Extractable Hydrocarbons | 34 | 0.57 | 28 | 0.93 | 115.0 | 60 | 132 | 34 | 0.4 | 20.0 | |
| Surr: o-Terphenyl | 0.37 | 0.0038 | 0.38 | 0.00 | 99.0 | 56 | 125 | 0.00 | | | |

Associated Samples: **B21100756-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368573
**Method:** SW8015C **Analysis Date:** 10/11/2021 18:54 **Prep Date:**
**Lab ID:** CCV_1011HP512r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.9 | 0.30 | 5.0 | | 98.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 113.0 | 80 | 120 | | | | |

Associated Samples: **B21100756-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368573
**Method:** SW8015C **Analysis Date:** 10/11/2021 19:37 **Prep Date:**
**Lab ID:** CCV_1011HP513r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 98.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 102.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 103.0 | 80 | 120 | | | | |

Associated Samples: **B21100756-001A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100756
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 10/27/2021

**Run ID: Run Order:** GCFID-HP5-B_211011A: 9
**SampType:** Continuing Calibration Verification Standard
**Batch ID:** R368573
**Method:** SW8015C
**Analysis Date:** 10/12/2021 04:10
**Prep Date:**
**Lab ID:** CCV_1011HP525r
**Units:** mg/L
**Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.0 | 0.30 | 5.0 | | 100.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 112.0 | 80 | 120 | | | | |

Associated Samples: **B21100756-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 10
**SampType:** Continuing Calibration Verification Standard
**Batch ID:** R368573
**Method:** SW8015C
**Analysis Date:** 10/12/2021 04:53
**Prep Date:**
**Lab ID:** CCV_1011HP526r
**Units:** mg/L
**Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 103.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 107.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 108.0 | 80 | 120 | | | | |

Associated Samples: **B21100756-001A**

# Analytical QC Exceptions Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100756
**Project:** CV18F0126/60571032.02.20.01

**Report Date:** 10/27/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.

# Preparation and Analysis Dates Report

**Work Order:** B21100756
**Client:** AECOM - Honolulu
**Project Name:** CV18F0126/60571032.02.20.01
**Report Date:** 10/27/2021

| Lab ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Method | Prep Date | Prep Batch | Analysis Method | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | ERH1777 (RHSF, Pre-Chlorination) | 10/02/2021 12:40 | Drinking Water | Diesel Range Organics | | SW3520C | 10/09/2021 12:13 | 160178 | SW8015C | 10/11/2021 22:28 |

# Chemical Abstracts Service (CAS) Registry Numbers

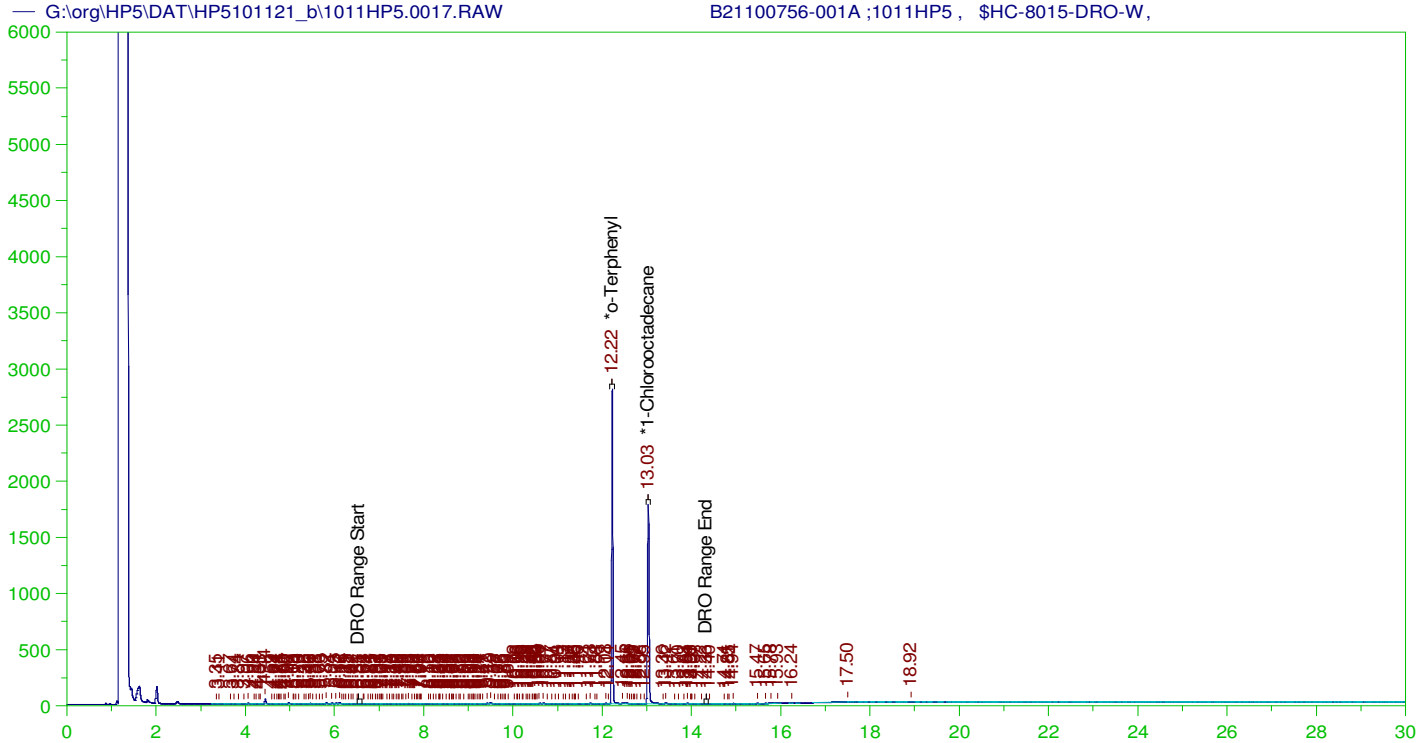
Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100756
**Project:** CV18F0126/60571032.02.20.01 **Report Date:** 10/27/2021

| Analyses | CAS No |
|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | |
| Diesel Range Organics (C10 to C24) | |
| Oil Range Hydrocarbons (C24 to C40) | |
| Total Extractable Hydrocarbons | |

**ERH1777 (RHSF, Pre-Chlorination)** Batch ID: 160178

G:\org\HP5\DAT\HP5101121_b\1011HP5.0017.RAW B21100756-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100756-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0017.RAW
Date & Time Acquired: 10/11/2021 10:28:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

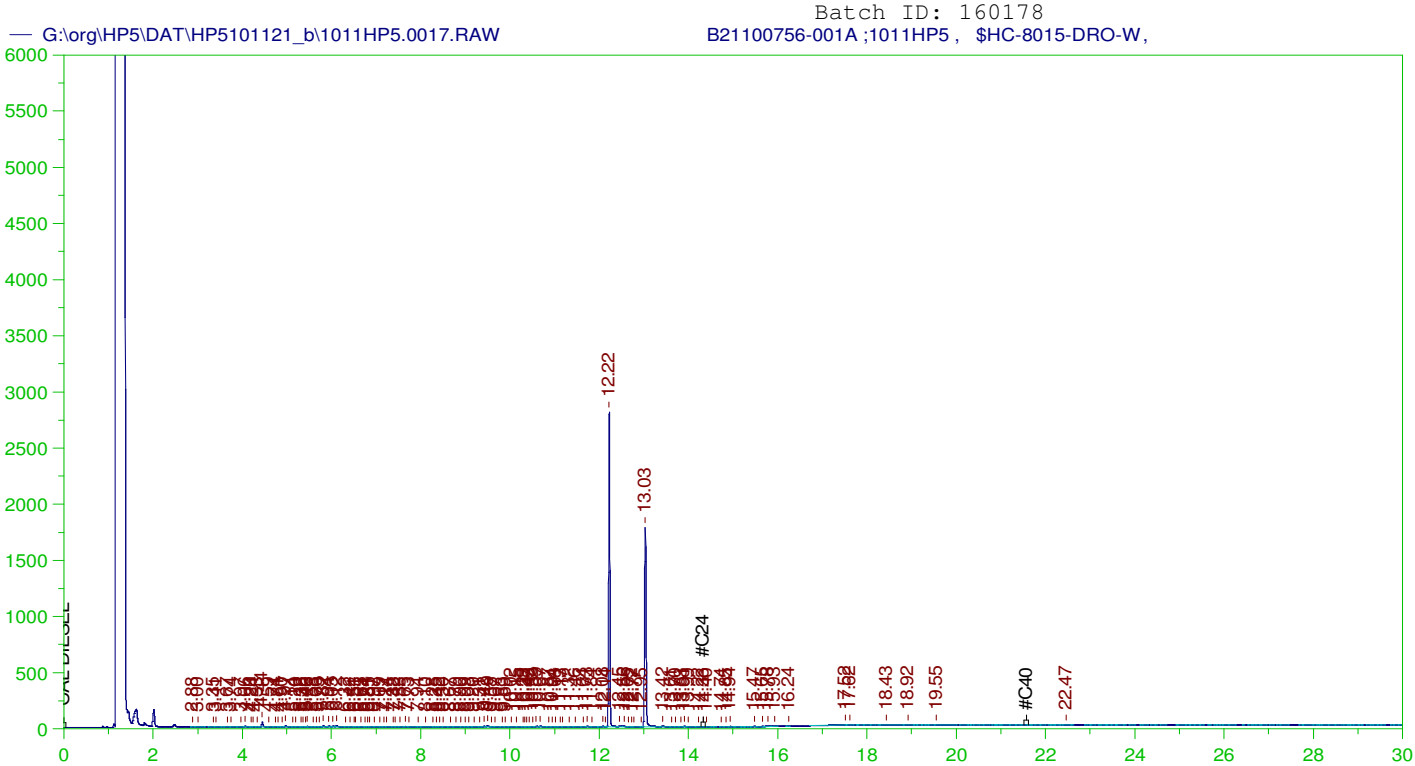
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .191 | .148 | 77.26 | - |
| *1-Chlorooctadecane | 13.029 | .191 | .108 | 56.28 | - |

DRO (C10-C24)Area:589638.6 DRO (C10-C24)Amount: 1.915473E-02
TEH Area:1029806 TEH Amount: 3.345381E-02

AMN 10/13/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100756-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0017.RAW
Date & Time Acquired: 10/11/2021 10:28:21 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40)Area:71402.17 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 2.393892E-03

AMN 10/13/2021

| | |
|---|---|
| **From:** | Ramos, Alethea |
| **To:** | Jillian Miller; "Shari Endy" |
| **Cc:** | Yim, Matt; Pascua, Margie; billingspm@energylab.com; Zheng, Weifeng |
| **Subject:** | RE: [EXTERNAL] RE: RE: CV18F0126: NOI Sample Arriving 10/04/21 for Expedited TAT_CUI |
| **Date:** | Friday, October 08, 2021 12:24:46 PM |
| **Attachments:** | image001.png |

CUI

Thank you Jillian,

Please proceed with analysis.

**Alethea Ramos, CIH**
Environmental Scientist, Environmental Health & Science, Environment
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M +1-808-389-5383
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CUI

**From:** Jillian Miller <jmiller@energylab.com>
**Sent:** Friday, October 8, 2021 5:58 AM
**To:** Ramos, Alethea <alethea.ramos@aecom.com>; 'Shari Endy' <sendy@energylab.com>
**Cc:** Yim, Matt <matt.yim@aecom.com>; Pascua, Margie <Margie.Pascua@aecom.com>; billingspm@energylab.com; Zheng, Weifeng <Wei.Zheng@aecom.com>
**Subject:** [EXTERNAL] RE: RE: CV18F0126: NOI Sample Arriving 10/04/21 for Expedited TAT_CUI

CUI

Alethea,

We received this sample today, and the temperature is 18.2° C.

- ERH1777 (RHSF, pre-chlorination)

Please let me know at your earliest convenience if you would like us to proceed with analysis, or if you would like us to cancel.

Sincerely,
Jillian

**Energy Laboratories, Inc.**
Trust our People. Trust our Data.

**Jillian Miller** | Project Manager | Billings, MT
O: 406-869-6295 | jmiller@energylab.com | www.energylab.com

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CUI

---

**From:** Jillian Miller [mailto:jmiller@energylab.com]
**Sent:** Friday, October 08, 2021 8:37 AM
**To:** 'Ramos, Alethea'; 'Shari Endy'
**Cc:** 'Yim, Matt'; 'Pascua, Margie'; billingspm@energylab.com; 'Zheng, Weifeng'
**Subject:** RE: [EXTERNAL] RE: CV18F0126: NOI Sample Arriving 10/04/21 for Expedited TAT_CUI

CUI

Thanks Alethea. I have notified out individuals that receive the coolers. We will have our eye out and I will let you know either way.

Sincerely,
Jillian

**Energy Laboratories, Inc.**
Trust our People. Trust our Data.

**Jillian Miller** | Project Manager | Billings, MT
O: 406-869-6295 | jmiller@energylab.com | www.energylab.com

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CUI

---

**From:** Ramos, Alethea [mailto:alethea.ramos@aecom.com]
**Sent:** Thursday, October 07, 2021 6:59 PM
**To:** Jillian Miller; 'Shari Endy'
**Cc:** Yim, Matt; Pascua, Margie; billingspm@energylab.com; Zheng, Weifeng
**Subject:** RE: [EXTERNAL] RE: CV18F0126: NOI Sample Arriving 10/04/21 for Expedited TAT_CUI

CUI

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*07-May-21*

**Run ID** GCFID-HP5-B_210108B

**Run Start Date:** 1/8/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** NEW ICAL
SW8015C_DRO210108HA.CAL

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CALS | 12/31/2021 |
| DRO201210A | #2 Diesel in Acetone 150,000 ug/mL | | | | | SECOND S | 6/10/2021 |
| DRO210105B | EPH (4) SURR-1000 ug/mL ea. in Hexane | | | | | SURRS | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154799 | CCV_0108HP51 | HC-8015-DRO- | CAL1 | | 1/8/2021 2:21:25 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1350772 | | 0.15 | 0 | 0 | 0.0499 | 0.3 | 50 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154800 | CCV_0108HP51 | HC-8015-DRO- | CAL2 | | 1/8/2021 3:03:30 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.865478 | | 3.75 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154801 | CCV_0108HP51 | HC-8015-DRO- | CAL3 | | 1/8/2021 3:45:32 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.3786 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154802 | CCV_0108HP51 | HC-8015-DRO- | CAL4 | | 1/8/2021 4:27:38 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 39.10215 | | 37.5 | 0 | 0 | 0.0499 | 0.3 | 50 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154803 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 5:09:49 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 50.03634 | | 50 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154804 | CCV_0108HP50 | HC-8015-DRO- | CAL1 | | 1/8/2021 5:52:15 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00201784 | | 0.002 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154805 | CCV_0108HP50 | HC-8015-DRO- | CAL2 | | 1/8/2021 6:34:45 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04980491 | | 0.05 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154806 | CCV_0108HP50 | HC-8015-DRO- | CAL3 | | 1/8/2021 7:17:18 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2027571 | | 0.2 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154807 | CCV_0108HP50 | HC-8015-DRO- | CAL4 | | 1/8/2021 7:59:52 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.4989882 | | 0.5 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154808 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 8:42:33 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.9852039 | | 1 | 0 | 0 | 0.000327 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154809 | CCV_0108HP51 | HC-8015-DRO- | ICV | | 1/8/2021 9:25:08 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 14.94195 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Version: 6

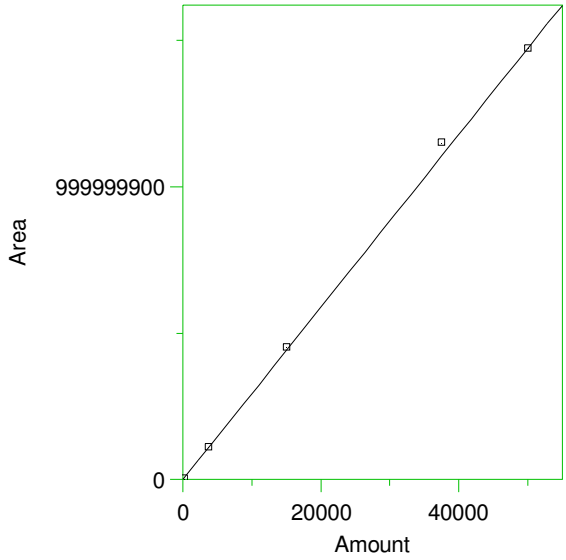
Creator: AMN 1/11/2021
Description: DRO-8015C. New ICal Per 0108HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.82 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

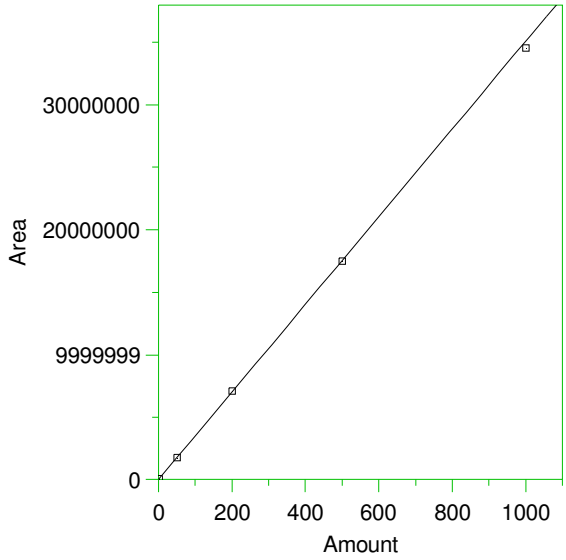
Y = 29457.33 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9985872 |
| Average error: | 3.979% |
| Average CF: | 29457.33 |
| RSD: | 5.768% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3979014 | 26526.76 | -9.949 | Manual | 1/11/2021 9:46:00 AM |
| 2 | 3750 | 1.138667E+08 | 30364.46 | 3.079 | Manual | 1/11/2021 9:46:09 AM |
| 3 | 15000 | 4.530125E+08 | 30200.83 | 2.524 | Manual | 1/11/2021 9:46:18 AM |
| 4 | 37500 | 1.151845E+09 | 30715.87 | 4.272 | Manual | 1/11/2021 9:46:27 AM |
| 5 | 50000 | 1.473937E+09 | 29478.74 | 0.073 | Manual | 1/11/2021 9:46:39 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.57 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

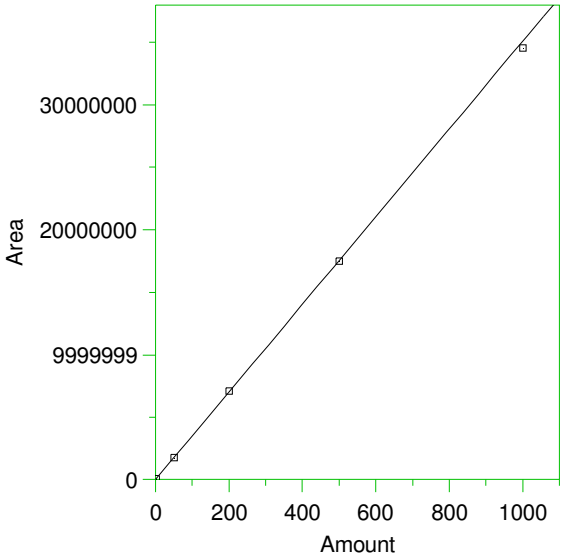
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.36 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

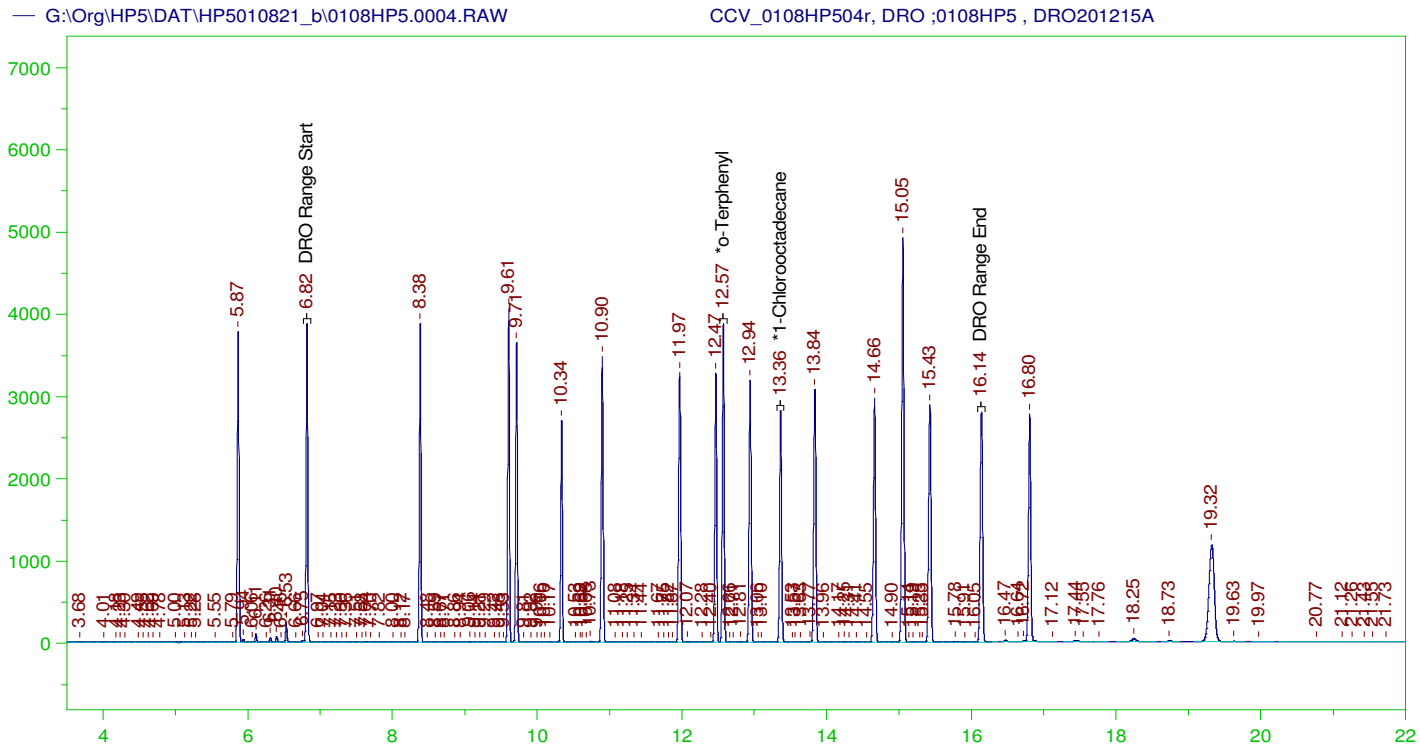
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP504r, DRO ;0108HP5 , DRO201215A
Raw File: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW
Date & Time Acquired: 1/8/2021 12:47:29 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | - |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | - |

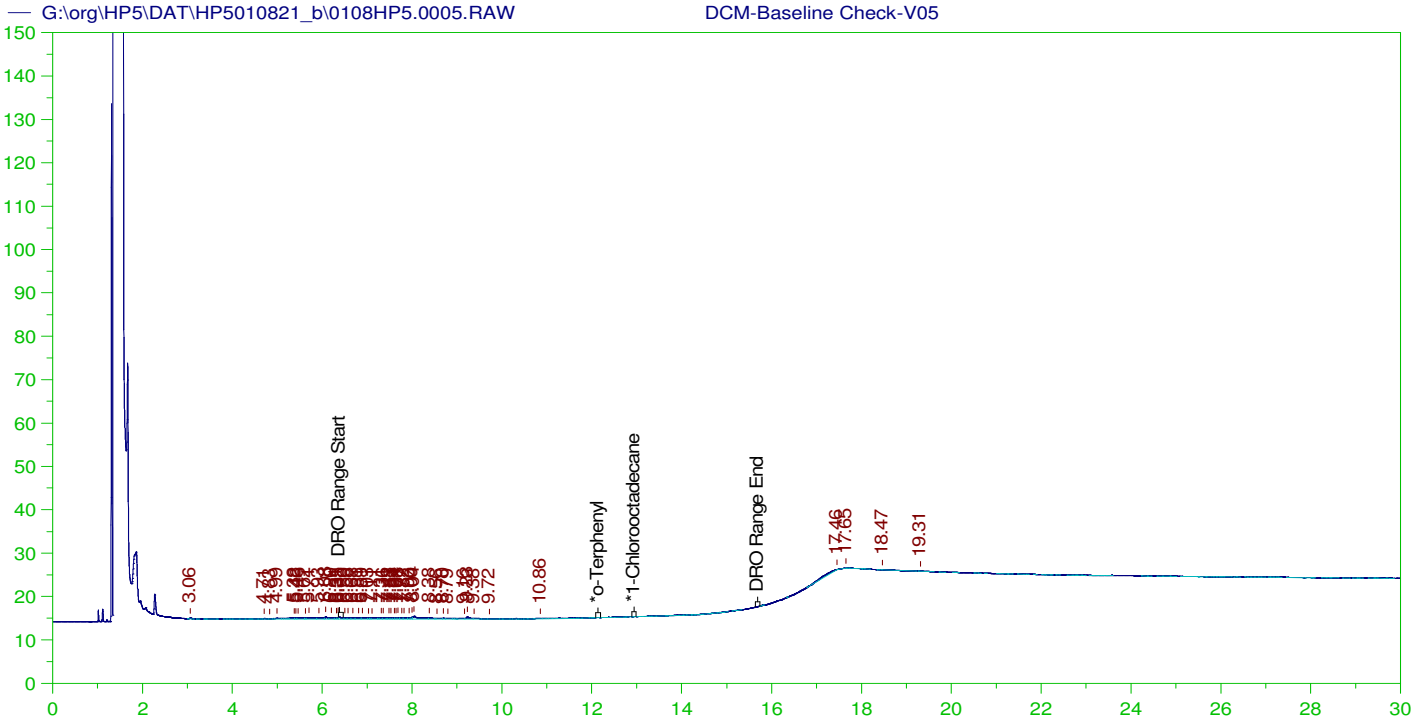
DRO Area:8.880706E+07 DRO Amount: 3014.77
TEH Area:1.082932E+08 TEH Amount: 3676.273

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3676.27 | 24.51 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | 85-115 |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\004_CCV_0108HP504r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

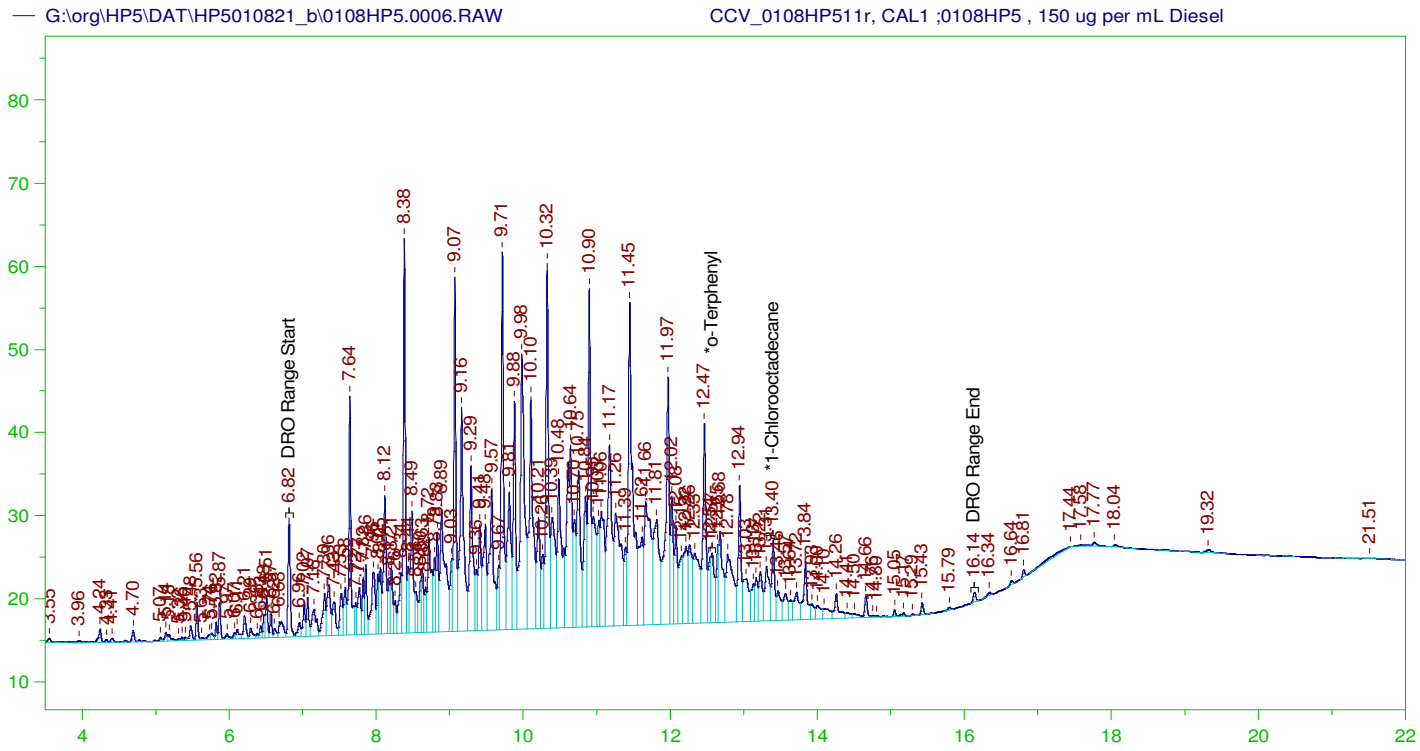
Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0005.RAW
Date & Time Acquired: 1/8/2021 1:29:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-GX-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO200123GX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28963.21
Rt range for Diesel Range Organics: 6.36 to 15.74

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.787 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.787 | 200. | . | . | - |

DRO Area:48911.73 DRO Amount: 1.688754
TEH Area:90991.55 TEH Amount: 3.141625

G:\org\HP5\dat\HP5010821_b\Review\005_DCM-Baseline Chec_DR_8015-GX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW
Date & Time Acquired: 1/8/2021 2:21:25 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | - |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | - |

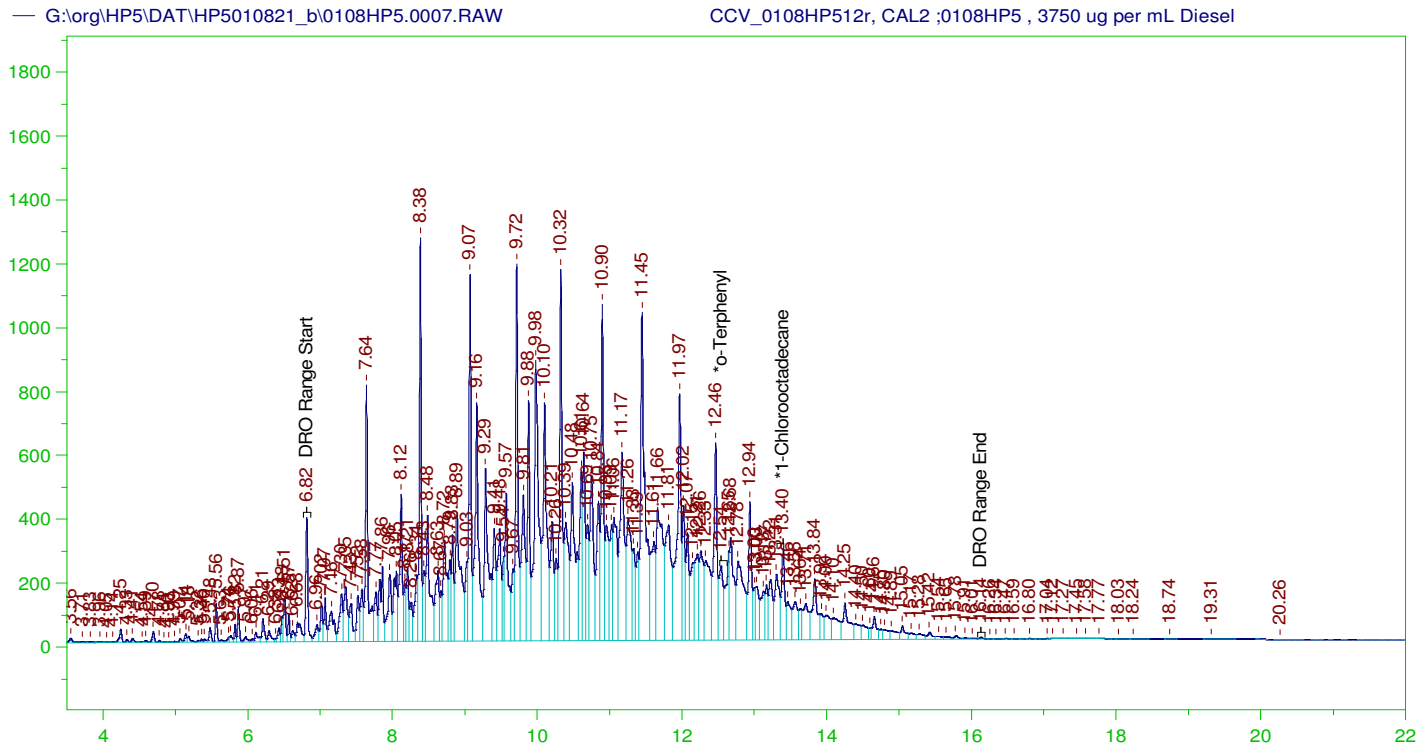
DRO Area:3854036 DRO Amount: 130.8345
TEH Area:3979014 TEH Amount: 135.0772

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 135.08 | .9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | 85-115 |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\006_CCV_0108HP511r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW
Date & Time Acquired: 1/8/2021 3:03:30 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | - |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | - |

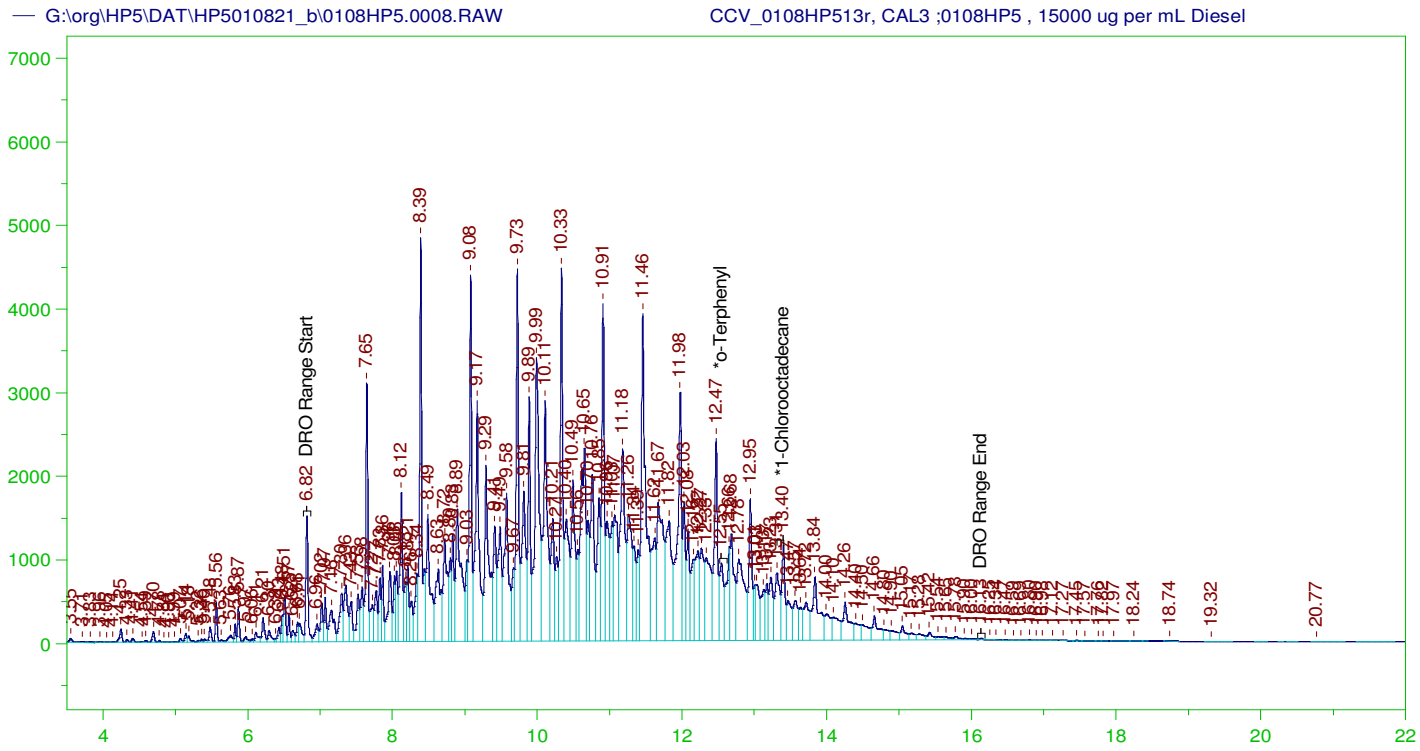
DRO Area:1.111179E+08 DRO Amount: 3772.164
TEH Area:1.138667E+08 TEH Amount: 3865.478

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3865.48 | 25.77 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | 85-115 |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\007_CCV_0108HP512r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW
Date & Time Acquired: 1/8/2021 3:45:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | - |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | - |

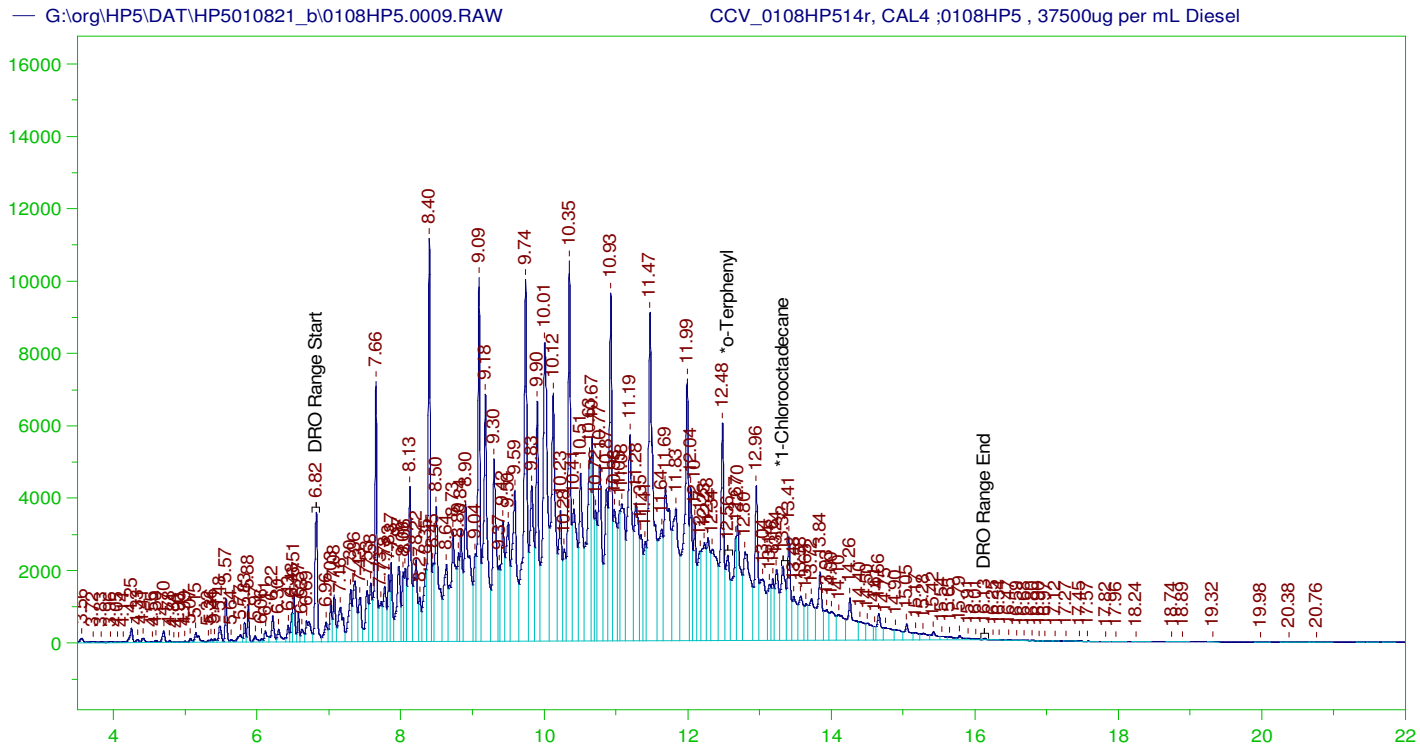
DRO Area:4.420163E+08 DRO Amount: 15005.31
TEH Area:4.530125E+08 TEH Amount: 15378.6

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15378.6 | 102.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | 85-115 |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\008_CCV_0108HP513r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW
Date & Time Acquired: 1/8/2021 4:27:38 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | - |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | - |

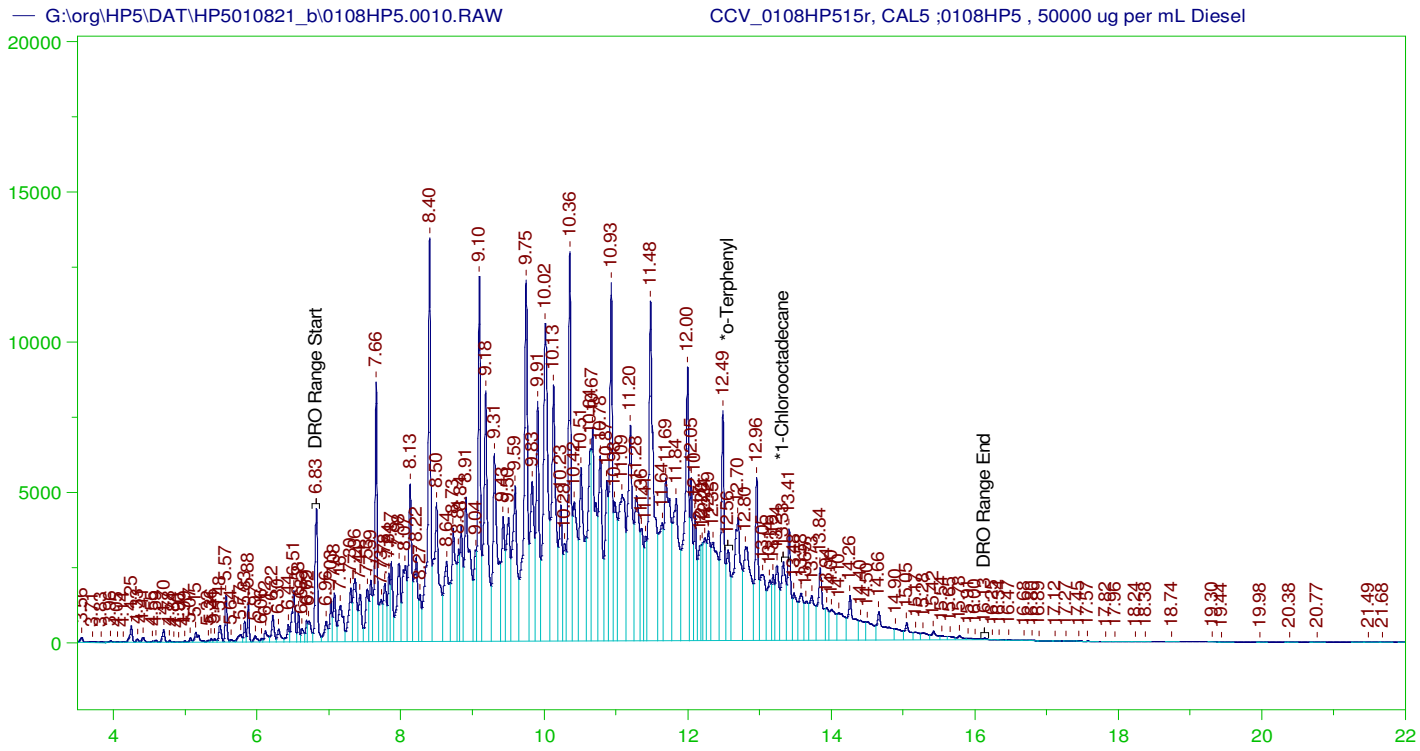
DRO Area:1.1239E+09 DRO Amount: 38153.5
TEH Area:1.151845E+09 TEH Amount: 39102.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39102.15 | 260.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | 85-115 |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\009_CCV_0108HP514r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW
Date & Time Acquired: 1/8/2021 5:09:49 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | - |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | - |

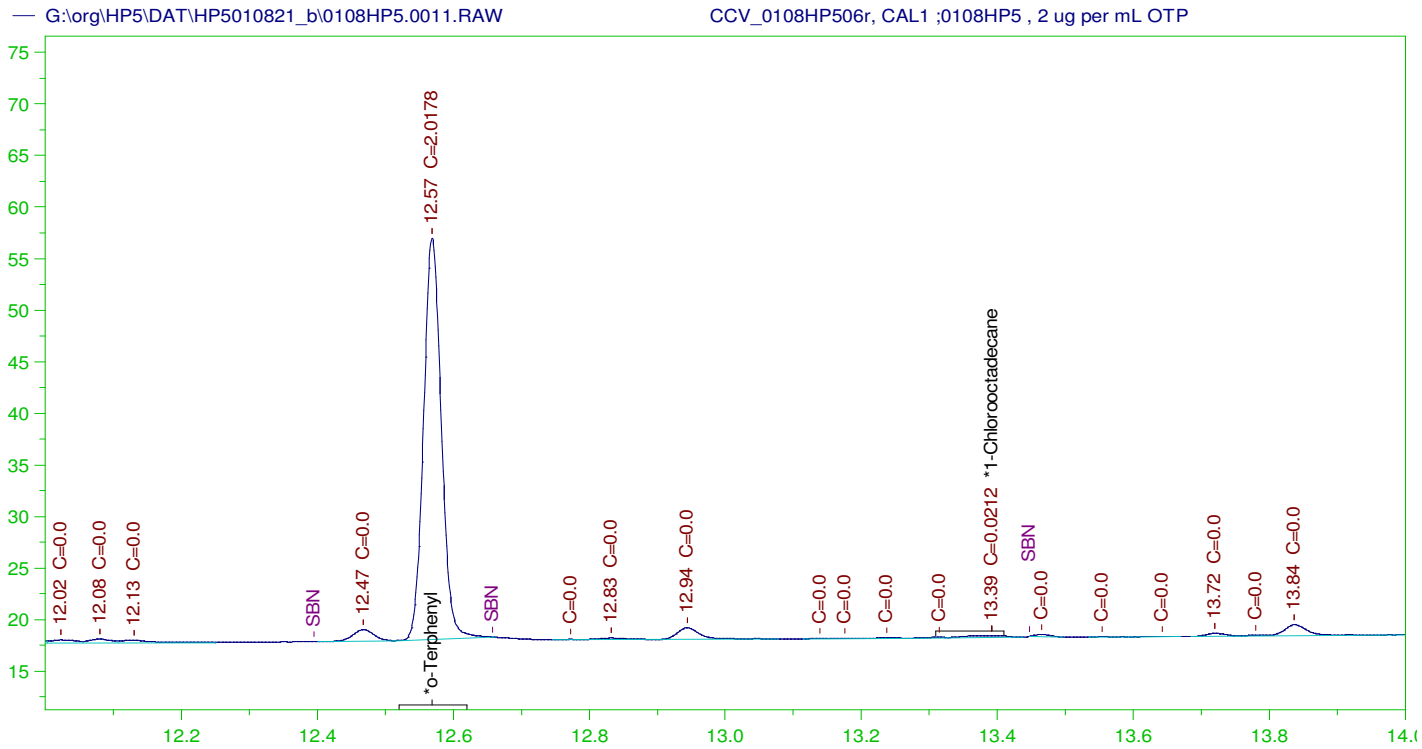
DRO Area:1.438162E+09 DRO Amount: 48821.87
TEH Area:1.473937E+09 TEH Amount: 50036.34

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 50036.34 | 333.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | 85-115 |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\010_CCV_0108HP515r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW
Date & Time Acquired: 1/8/2021 5:52:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | - |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | - |

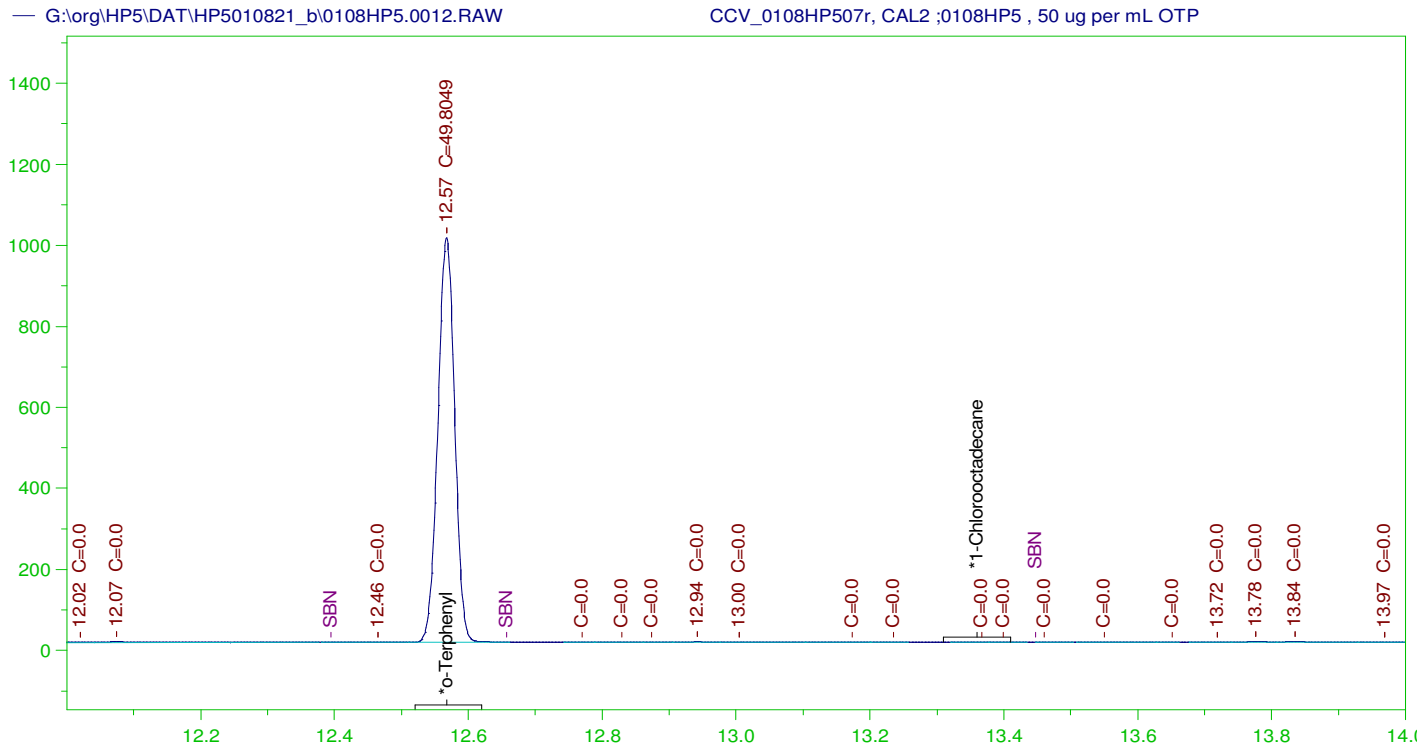
DRO Area:153898.5 DRO Amount: 5.224453
TEH Area:367701.2 TEH Amount: 12.4825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | 85-115 |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\011_CCV_0108HP506r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW
Date & Time Acquired: 1/8/2021 6:34:45 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | - |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | - |

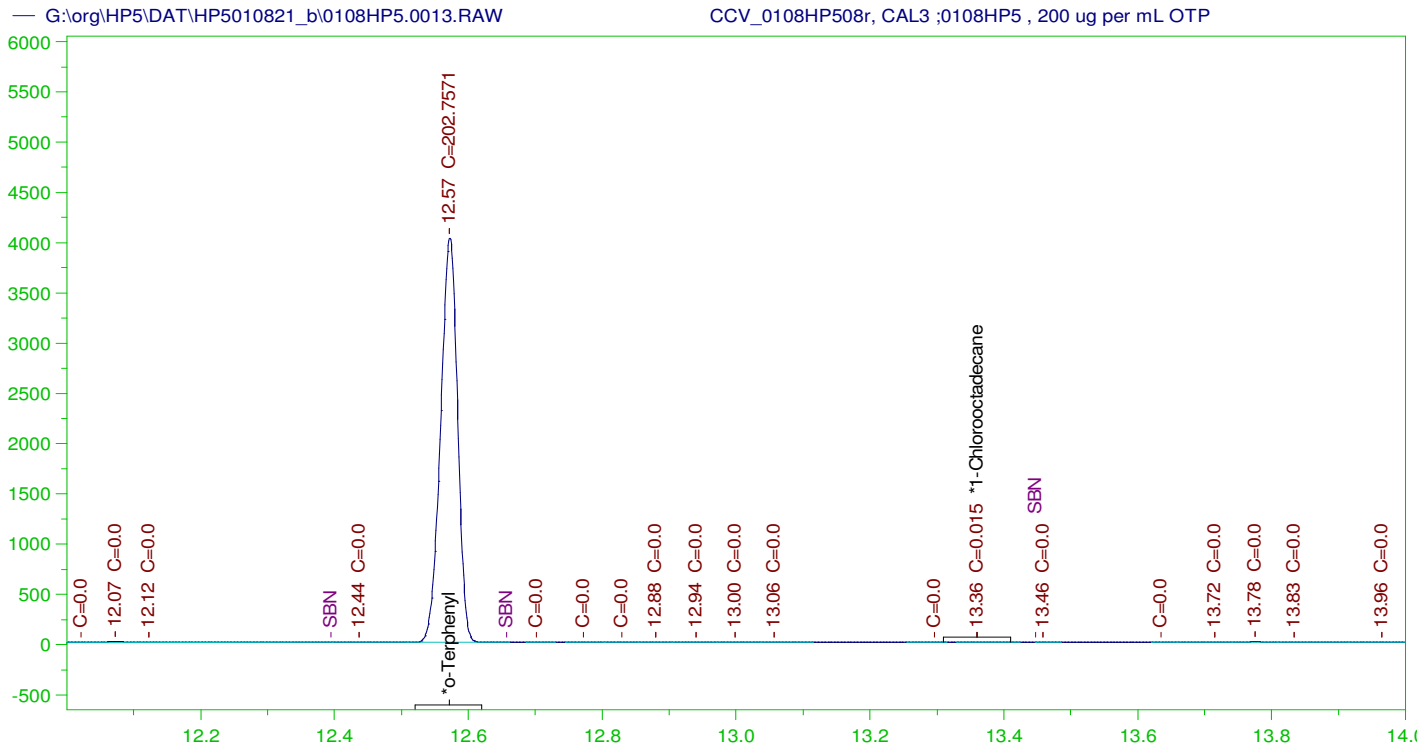
DRO Area:198540.3 DRO Amount: 6.739929
TEH Area:443484.3 TEH Amount: 15.05514

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | 85-115 |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\012_CCV_0108HP507r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW
Date & Time Acquired: 1/8/2021 7:17:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | - |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | - |

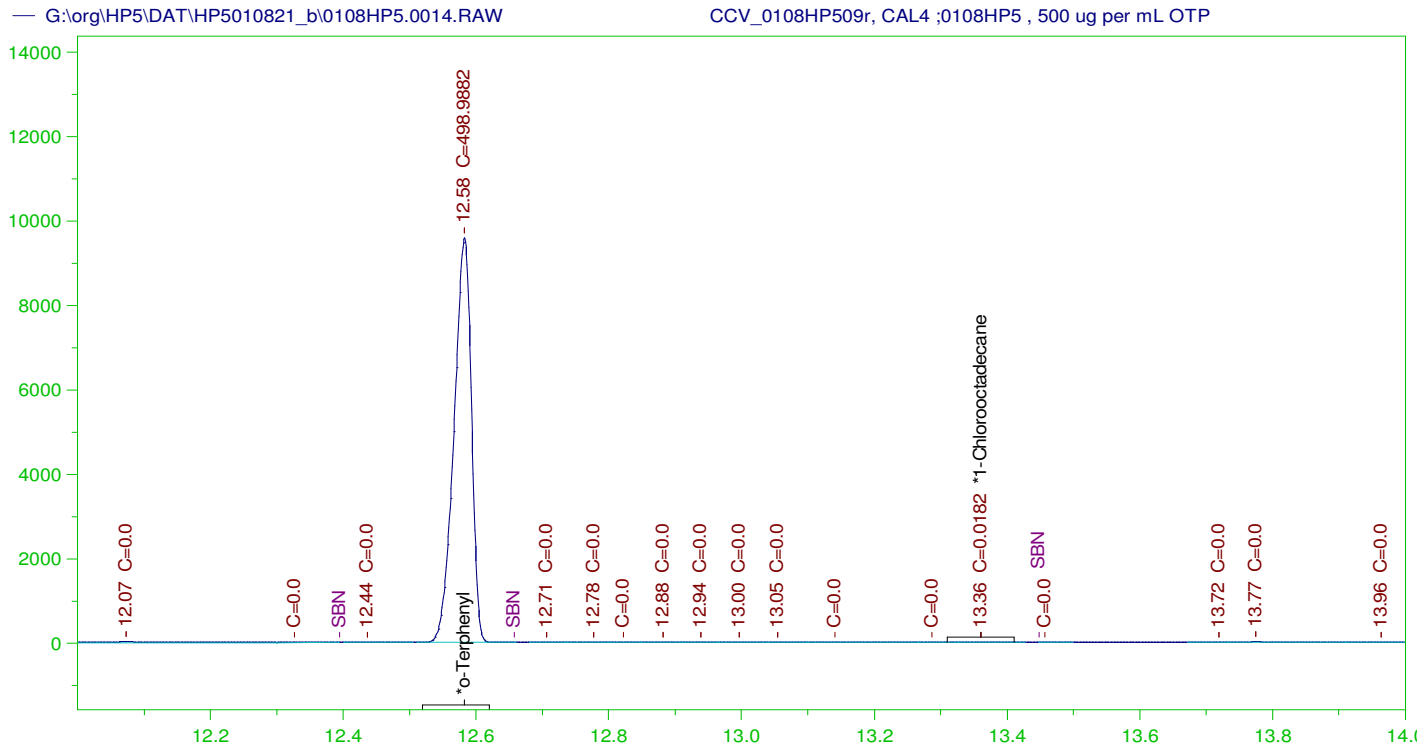
DRO Area:425468.4 DRO Amount: 14.44355
TEH Area:809202.7 TEH Amount: 27.47033

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 27.47 | .18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | 85-115 |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\013_CCV_0108HP508r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW
Date & Time Acquired: 1/8/2021 7:59:52 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | - |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | - |

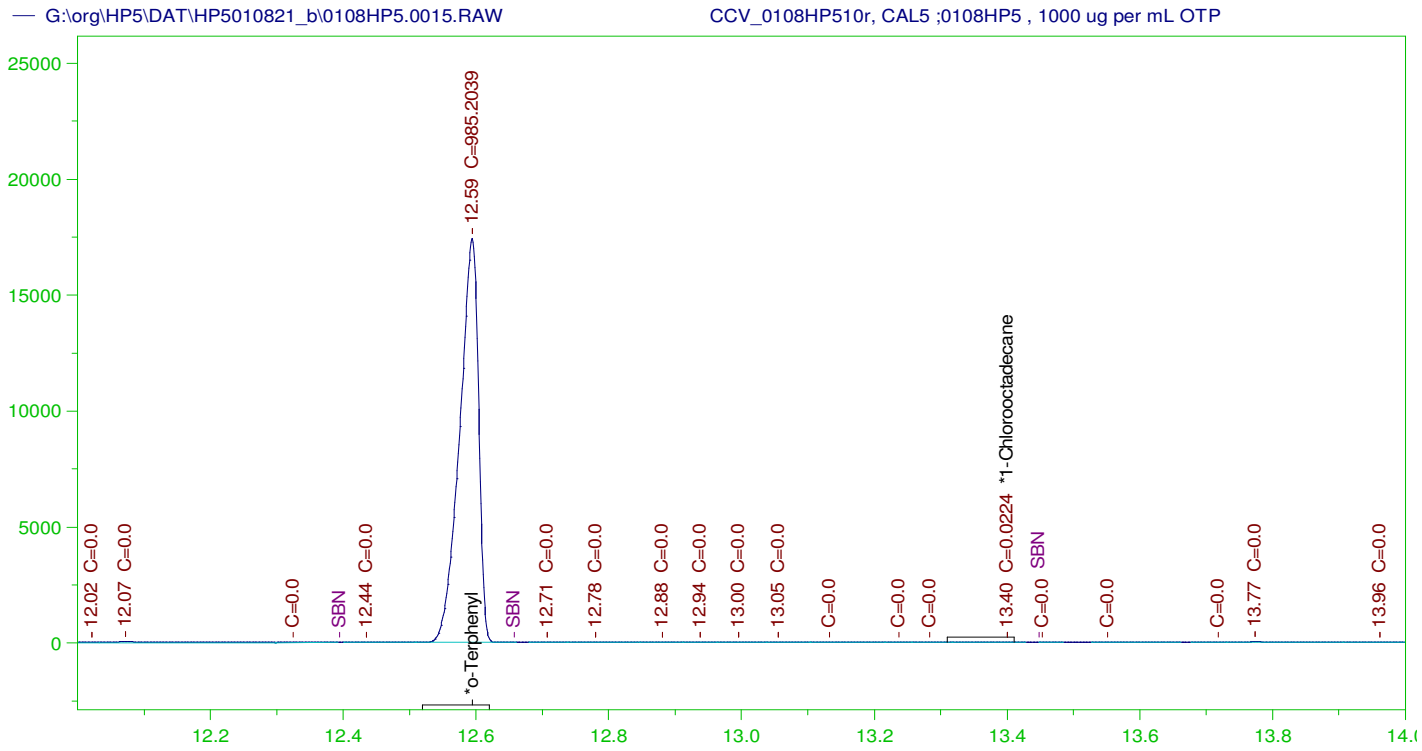
DRO Area:651862.6 DRO Amount: 22.12904
TEH Area:1164840 TEH Amount: 39.5433

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39.54 | .26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | 85-115 |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\014_CCV_0108HP509r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW
Date & Time Acquired: 1/8/2021 8:42:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | - |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | - |

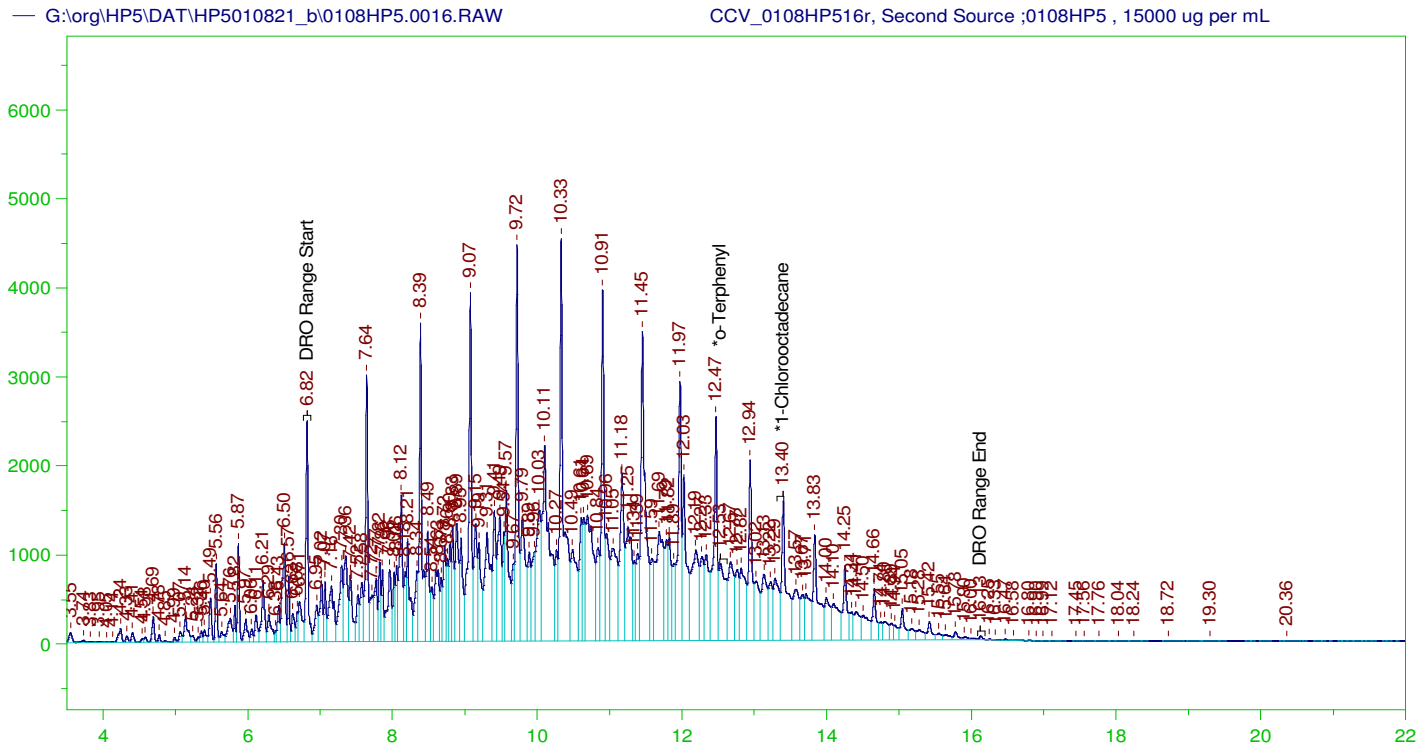
DRO Area:856596.9 DRO Amount: 29.07924
TEH Area:1371563 TEH Amount: 46.561

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 46.56 | .31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | 85-115 |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\015_CCV_0108HP510r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW
Date & Time Acquired: 1/8/2021 9:25:08 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | - |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | - |

DRO Area:4.138122E+08 DRO Amount: 14047.85
TEH Area:4.4015E+08 TEH Amount: 14941.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 14941.95 | 99.61 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | 85-115 |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\016_CCV_0108HP516r_DC_8015-HA-L%.xls

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selected)<br>Sample Name | Method | Weight | Dil Factor | Amt Inj.. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | Integration is valley to valley. Assigned Set Baseline All Valley on at 17.5. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.01.27 15:17:17 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Sep-21*

**Run ID** GCFID-HP5-B_210218B

**Run Start Date:** 2/18/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015 OIL range calibration
SW8015_OIL210218

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL | 8/31/2025 |
| DRO210204A | Carbon Scan STD | | | | | MARKER | 3/5/2028 |
| DRO210217A | 20,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | ICV | 8/23/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282665 | CCV_0218HP50 | HC-8015-DRO- | CAL1 | | 2/18/2021 12:03: | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1468323 | | 0.15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282666 | CCV_0218HP50 | HC-8015-DRO- | CAL2 | | 2/18/2021 1:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.062811 | | 1 | 0 | 0 | 0.15 | 0.3 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282667 | CCV_0218HP50 | HC-8015-DRO- | CAL3 | | 2/18/2021 2:51:0 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.035713 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282668 | CCV_0218HP50 | HC-8015-DRO- | CAL4 | | 2/18/2021 4:14:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.69295 | | 15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282669 | CCV_0218HP51 | HC-8015-DRO- | CAL5 | | 2/18/2021 5:38:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 28.20769 | | 30 | 0 | 0 | 0.15 | 0.3 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282670 | CCV_0218HP51 | HC-8015-DRO- | ICV | | 2/18/2021 8:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.474465 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 109% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Nam | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Version: 4

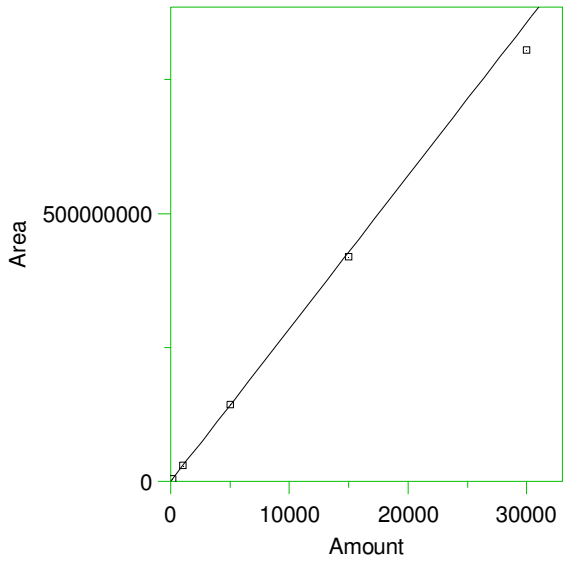
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




Expected retention time: 6.54 minutes
Search window: 0.05 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

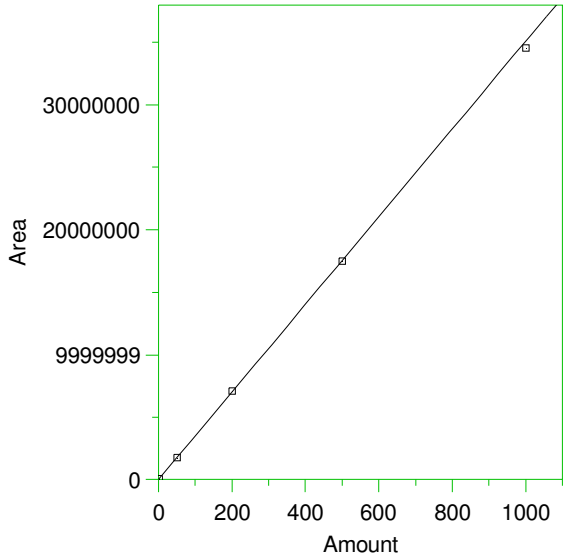
Single peak quantification by area

Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9940317
Average error: 3.209%
Average CF: 28542.41
RSD: 4.497%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 3/30/2021 11:50:57 AM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 3/30/2021 11:51:41 AM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 3/30/2021 11:52:00 AM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 3/30/2021 11:52:55 AM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 3/30/2021 11:52:32 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.14 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

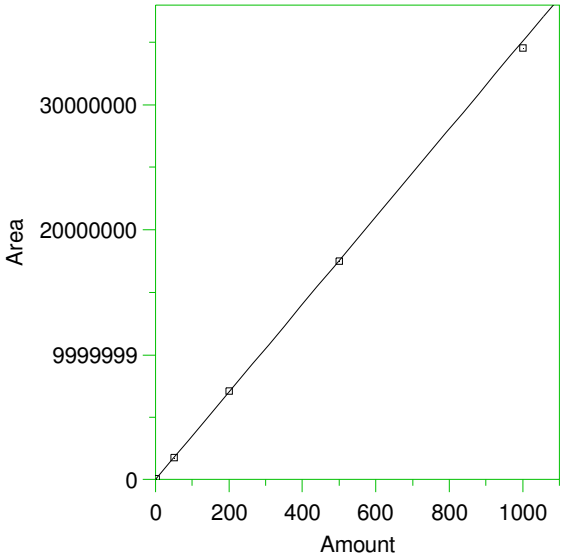
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.95 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

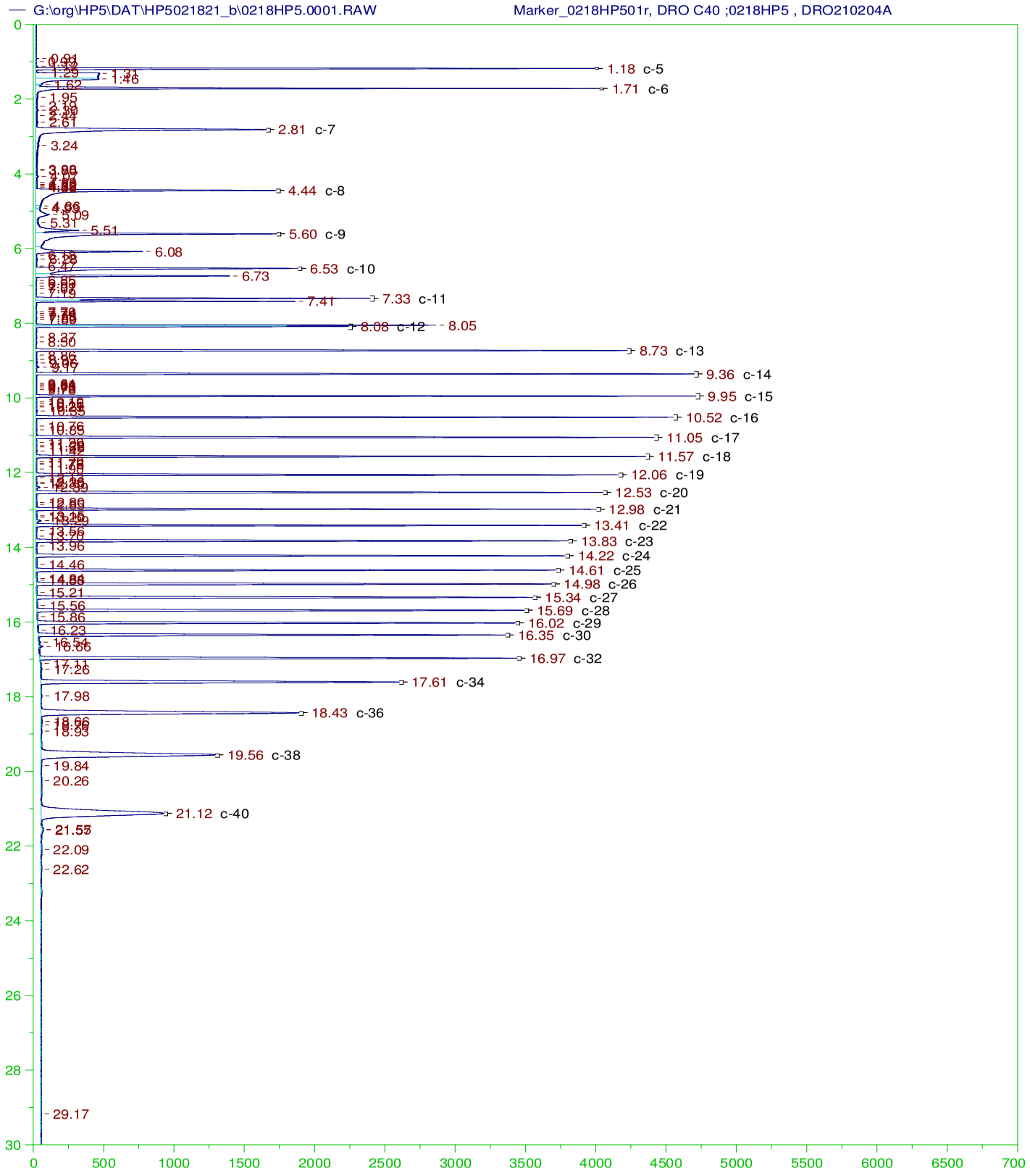
Single peak quantification by area

Y = 35071.26 X + 0

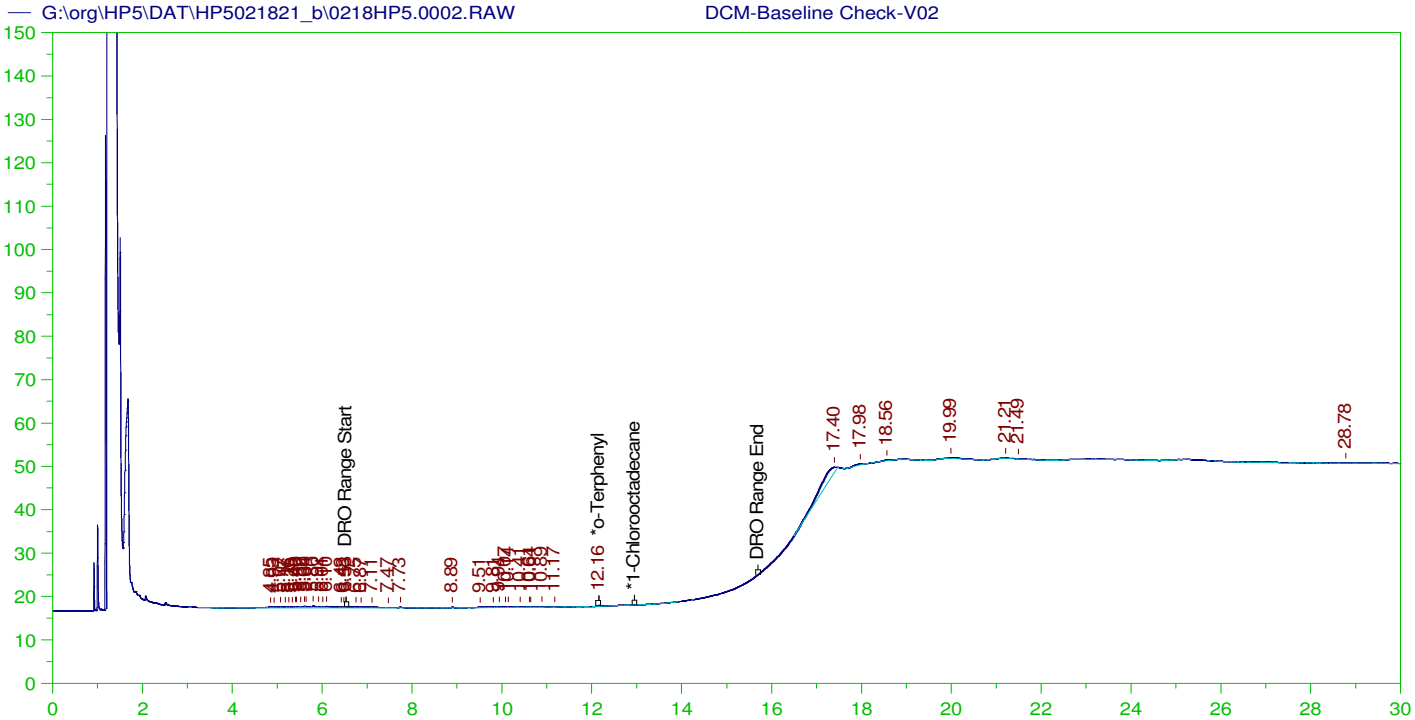
Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




G:\org\HP5\dat\HP5021821_b\Review\001_Marker_0218HP501r_CSC210212.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

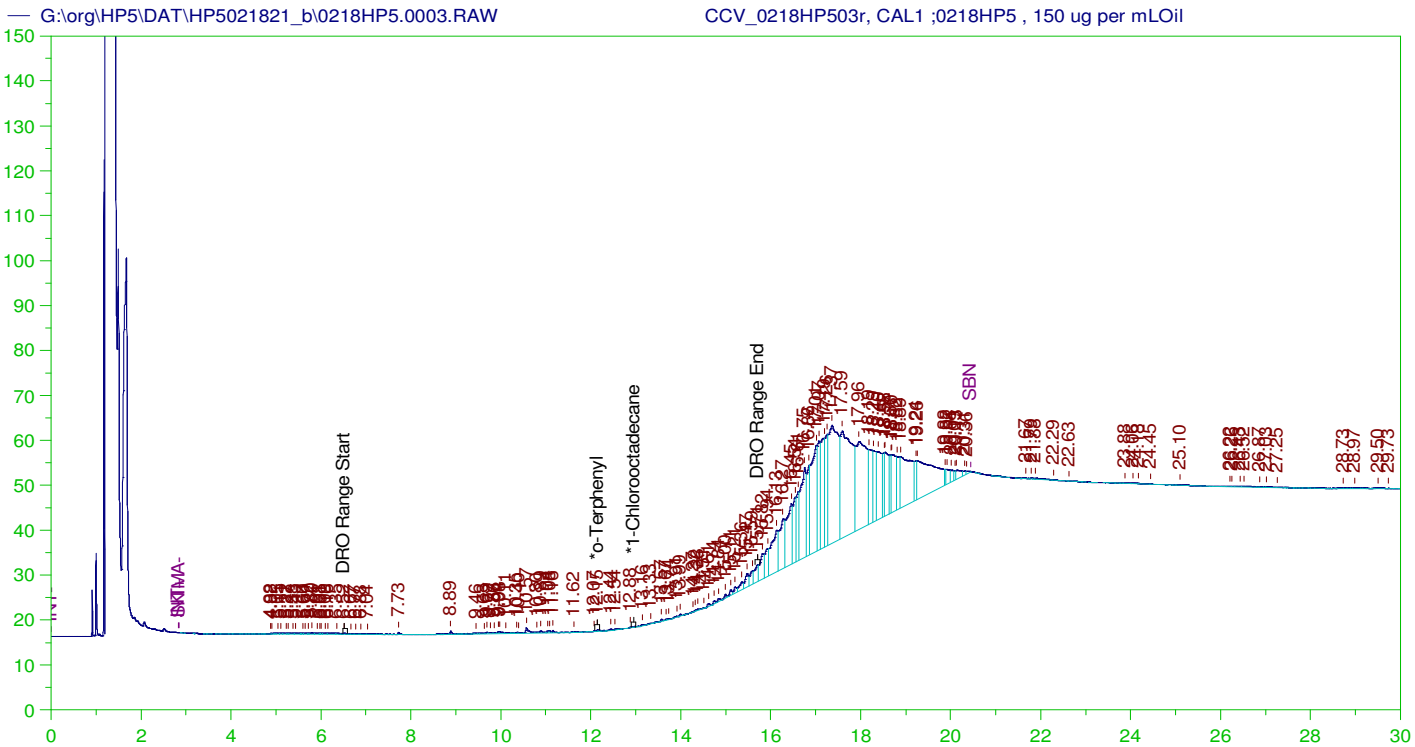
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
Date & Time Acquired: 2/18/2021 11:21:40 AM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.158 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 29.927 | 200. | . | . | - |

DRO Area:29553.31 DRO Amount: 1.003258
TEH Area:144057.3 TEH Amount: 4.890373

G:\org\HP5\dat\HP5021821_b\Review\002_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW
Date & Time Acquired: 2/18/2021 12:03:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021803-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | - |

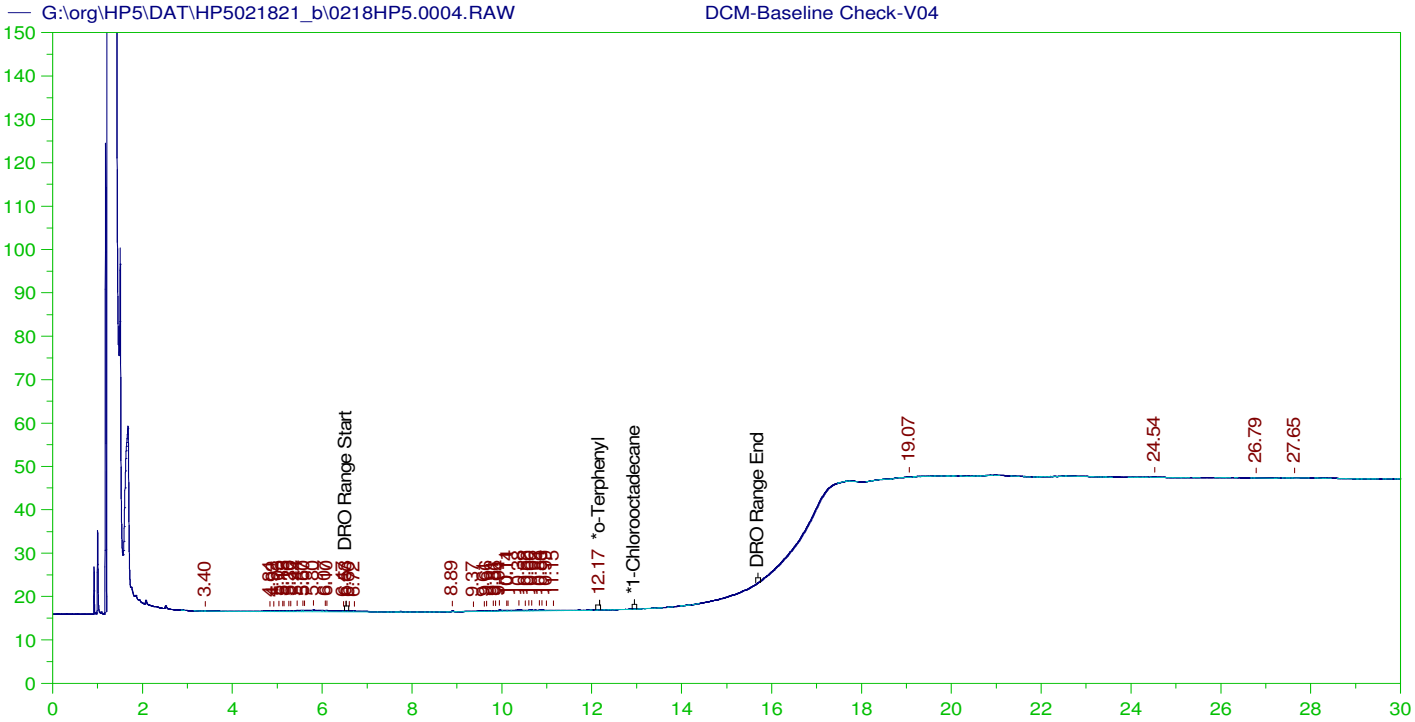
DRO Area:141843.8 DRO Amount: 4.969579
TEH Area:3766485 TEH Amount: 131.961

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 131.96 | 2.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | 85-115 |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\003_CCV_0218HP503r_DR_OIL-021803-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

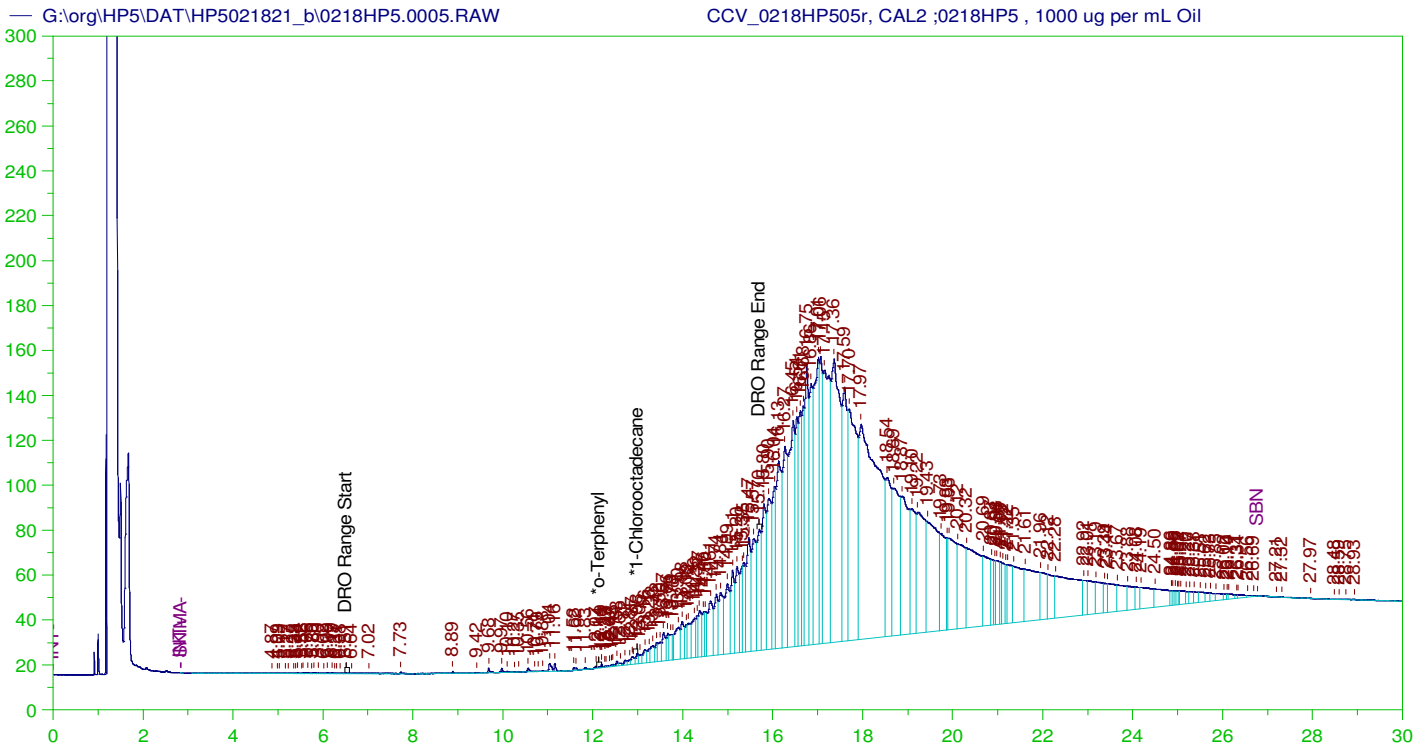
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
Date & Time Acquired: 2/18/2021 12:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.171 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.958 | 200. | . | . | - |

DRO Area:27245.38 DRO Amount: 0.9249101
TEH Area:63574.01 TEH Amount: 2.158173

G:\org\HP5\dat\HP5021821_b\Review\004_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW
Date & Time Acquired: 2/18/2021 1:27:30 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021805-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | - |

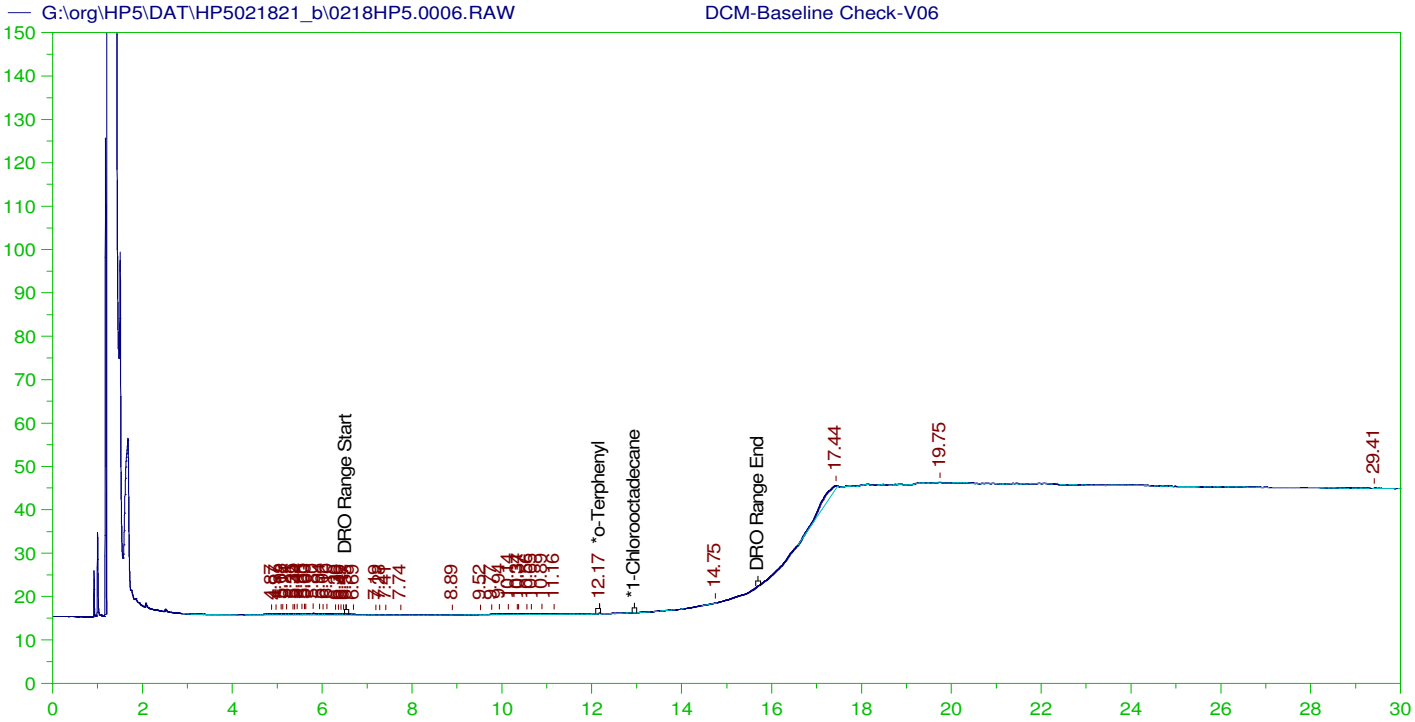
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1062.81 | 21.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | 85-115 |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\005_CCV_0218HP505r_DR_OIL-021805-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

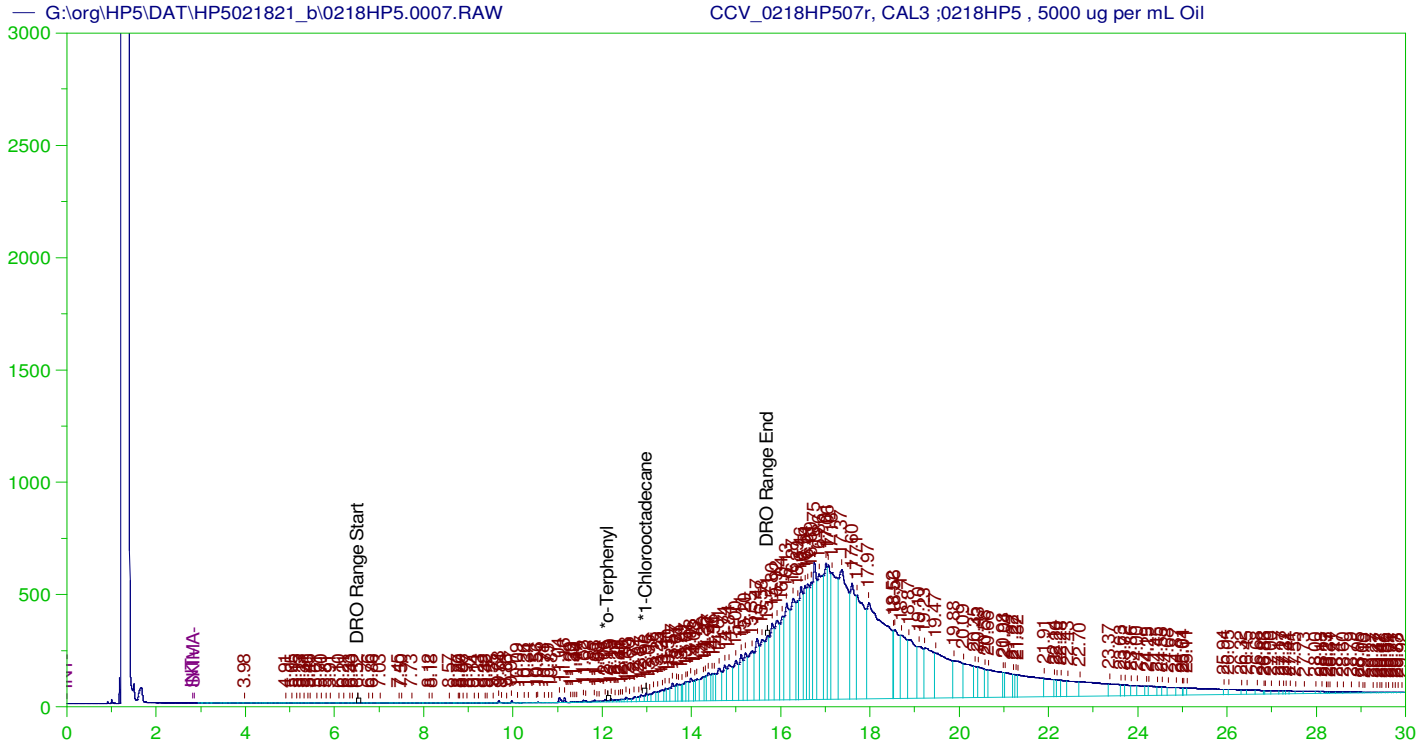
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0006.RAW
Date & Time Acquired: 2/18/2021 2:09:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:29249.25 DRO Amount: 0.9929362
TEH Area:123949.1 TEH Amount: 4.20775

G:\org\HP5\dat\HP5021821_b\Review\006_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW
Date & Time Acquired: 2/18/2021 2:51:00 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | - |

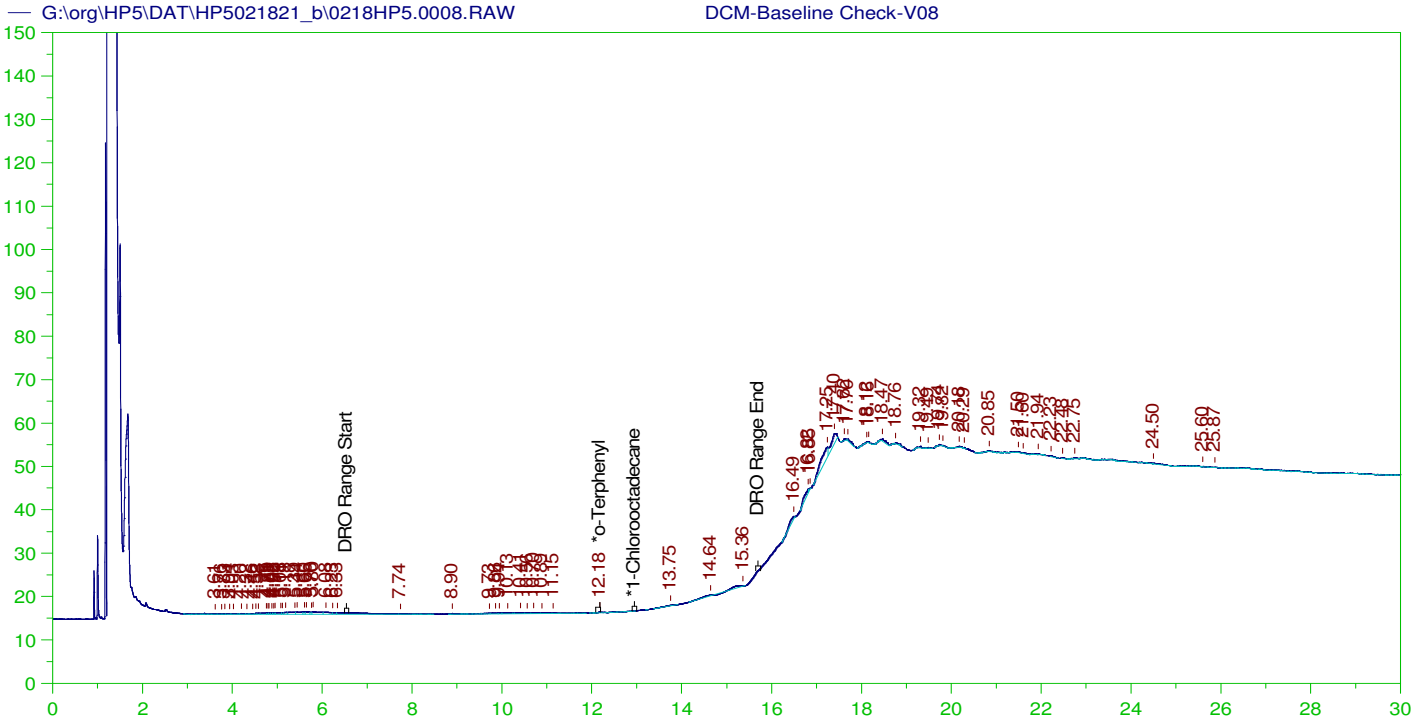
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5035.71 | 100.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\007_CCV_0218HP507r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

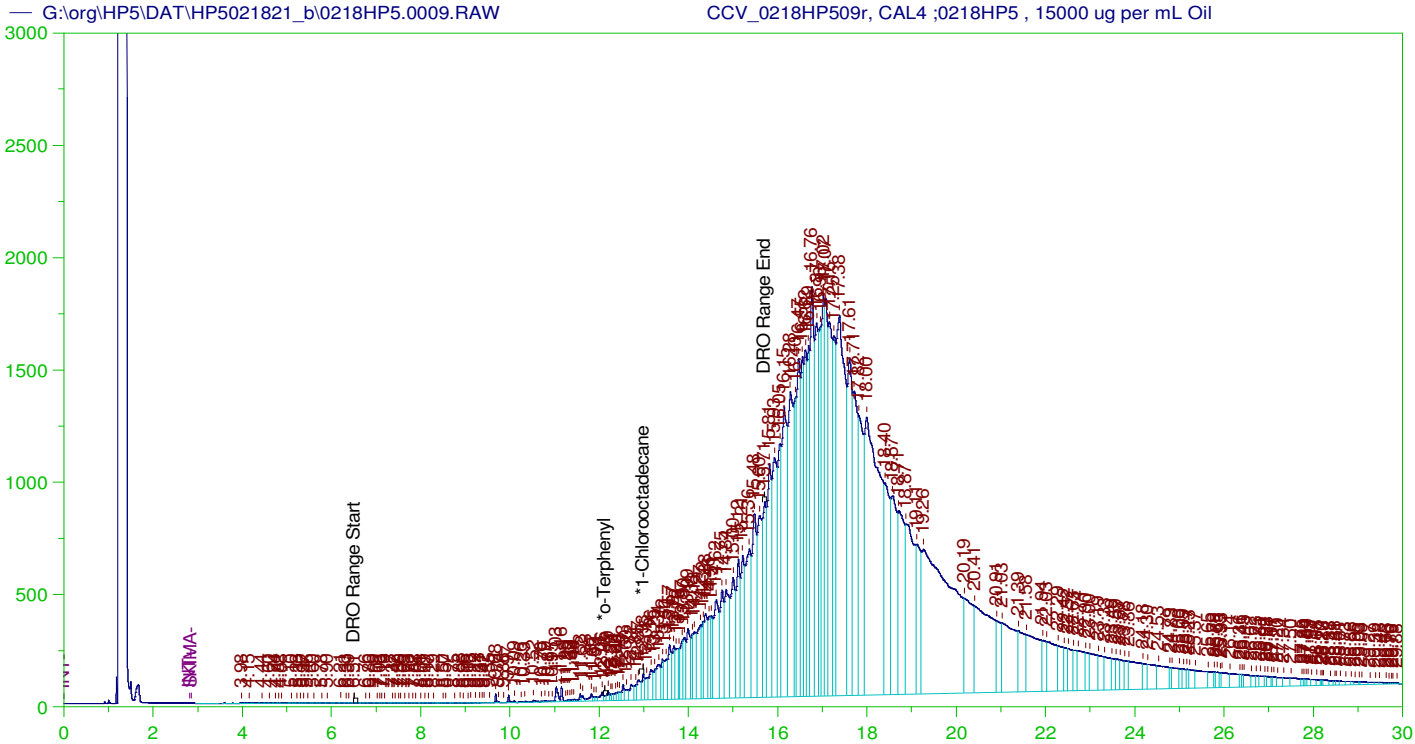
Sample Name: DCM-Baseline Check-V08
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0008.RAW
Date & Time Acquired: 2/18/2021 3:32:46 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .026 | .01 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:30717.07 DRO Amount: 1.042765
TEH Area:223672.8 TEH Amount: 7.593112

G:\org\HP5\dat\HP5021821_b\Review\008_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW
Date & Time Acquired: 2/18/2021 4:14:34 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | - |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | - |

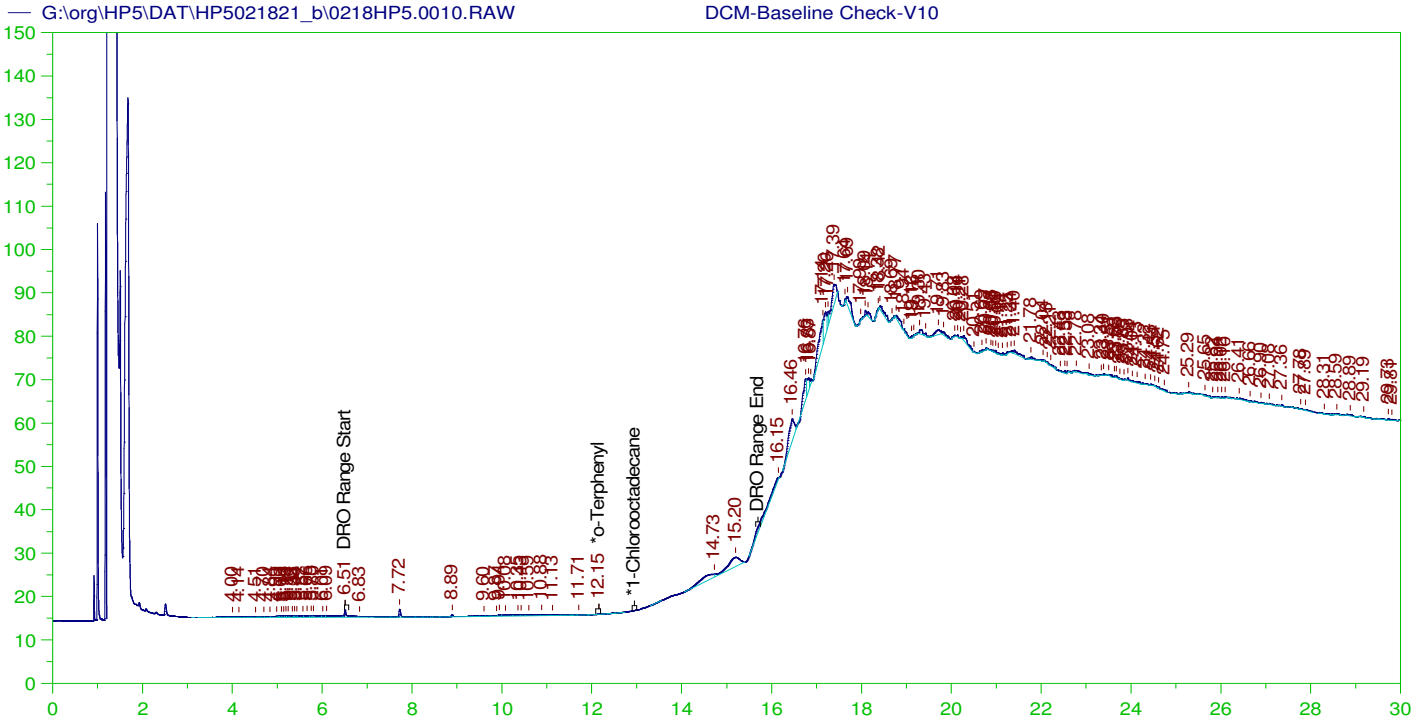
DRO Area:6.73131E+07 DRO Amount: 2358.354
TEH Area:4.193721E+08 TEH Amount: 14692.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14692.95 | 293.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | 85-115 |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\009_CCV_0218HP509r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

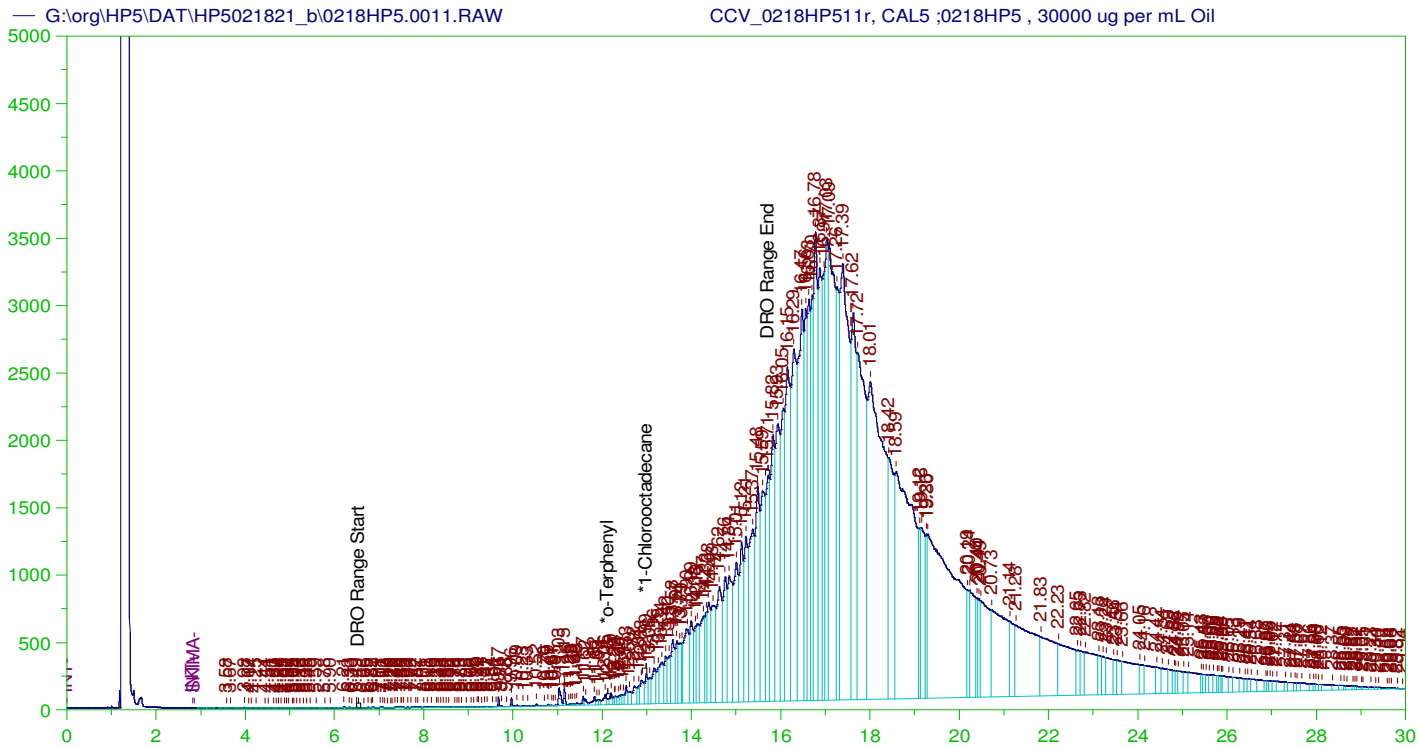
Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0010.RAW
Date & Time Acquired: 2/18/2021 4:56:16 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.153 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.957 | 200. | . | . | - |

DRO Area:108629.1 DRO Amount: 3.687675
TEH Area:543425.7 TEH Amount: 18.44789

G:\org\HP5\dat\HP5021821_b\Review\010_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW
Date & Time Acquired: 2/18/2021 5:38:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | - |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | - |

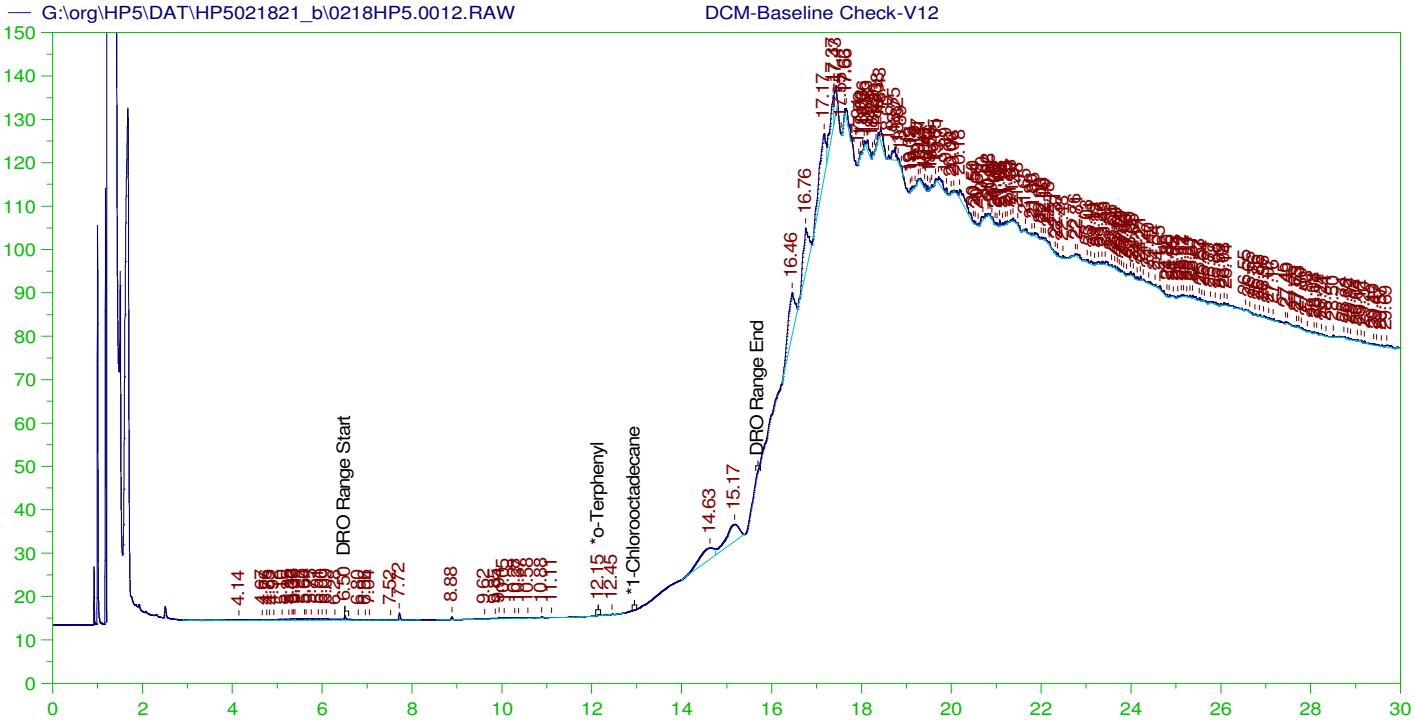
DRO Area:1.319327E+08 DRO Amount: 4622.338
TEH Area:8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 28207.69 | 564.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | 85-115 |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\011_CCV_0218HP511r_DR_OIL-021811-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

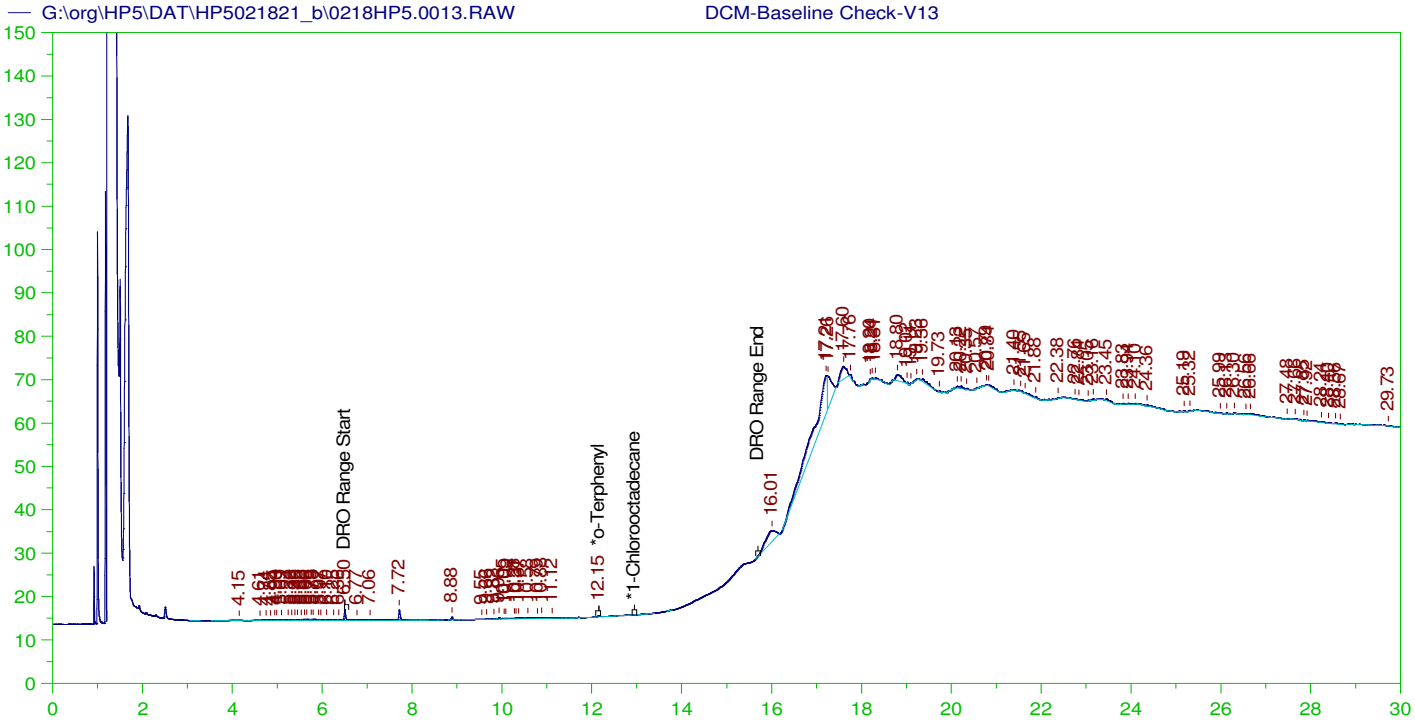
Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0012.RAW
Date & Time Acquired: 2/18/2021 6:20:48 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:186033.1 DRO Amount: 6.31534
TEH Area:888262.2 TEH Amount: 30.1542

G:\org\HP5\dat\HP5021821_b\Review\012_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

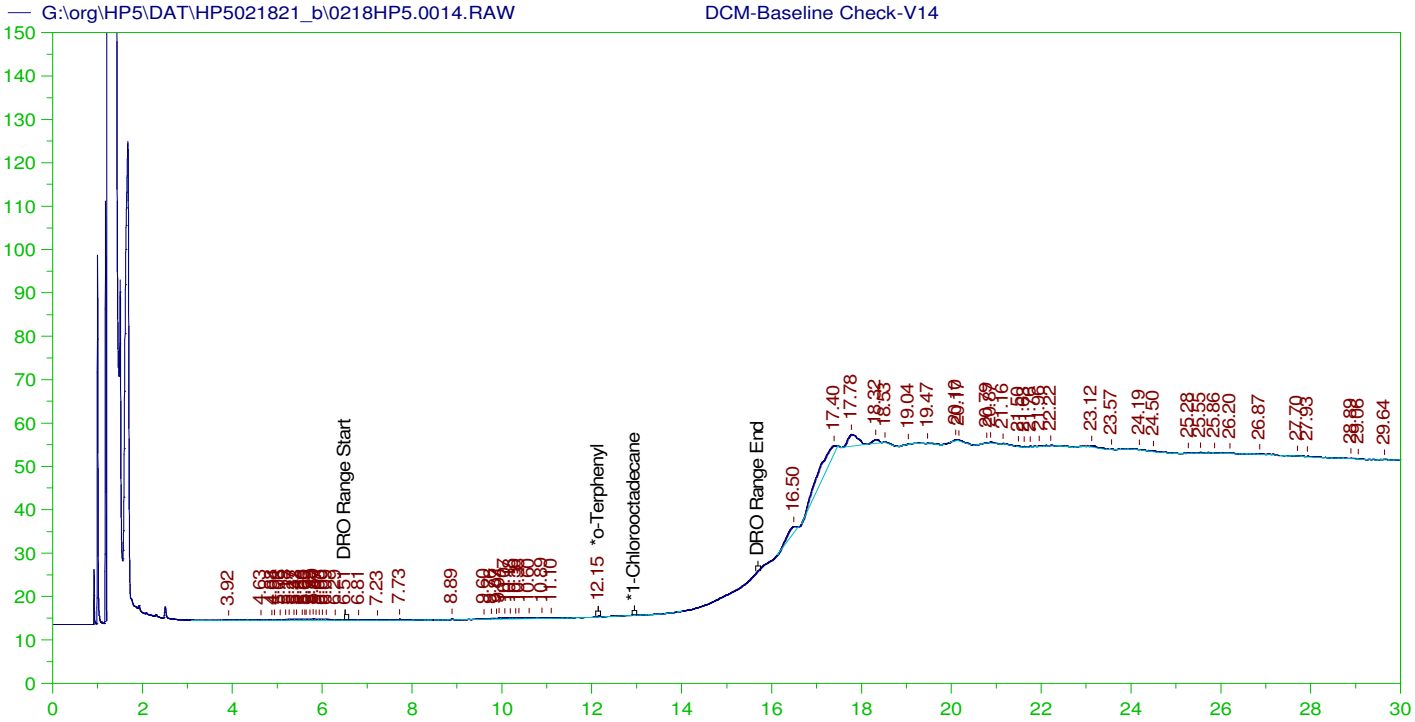
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0013.RAW
Date & Time Acquired: 2/18/2021 7:03:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.152 | 200. | .033 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:40824.55 DRO Amount: 1.385888
TEH Area:476705.3 TEH Amount: 16.18291

G:\org\HP5\dat\HP5021821_b\Review\013_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

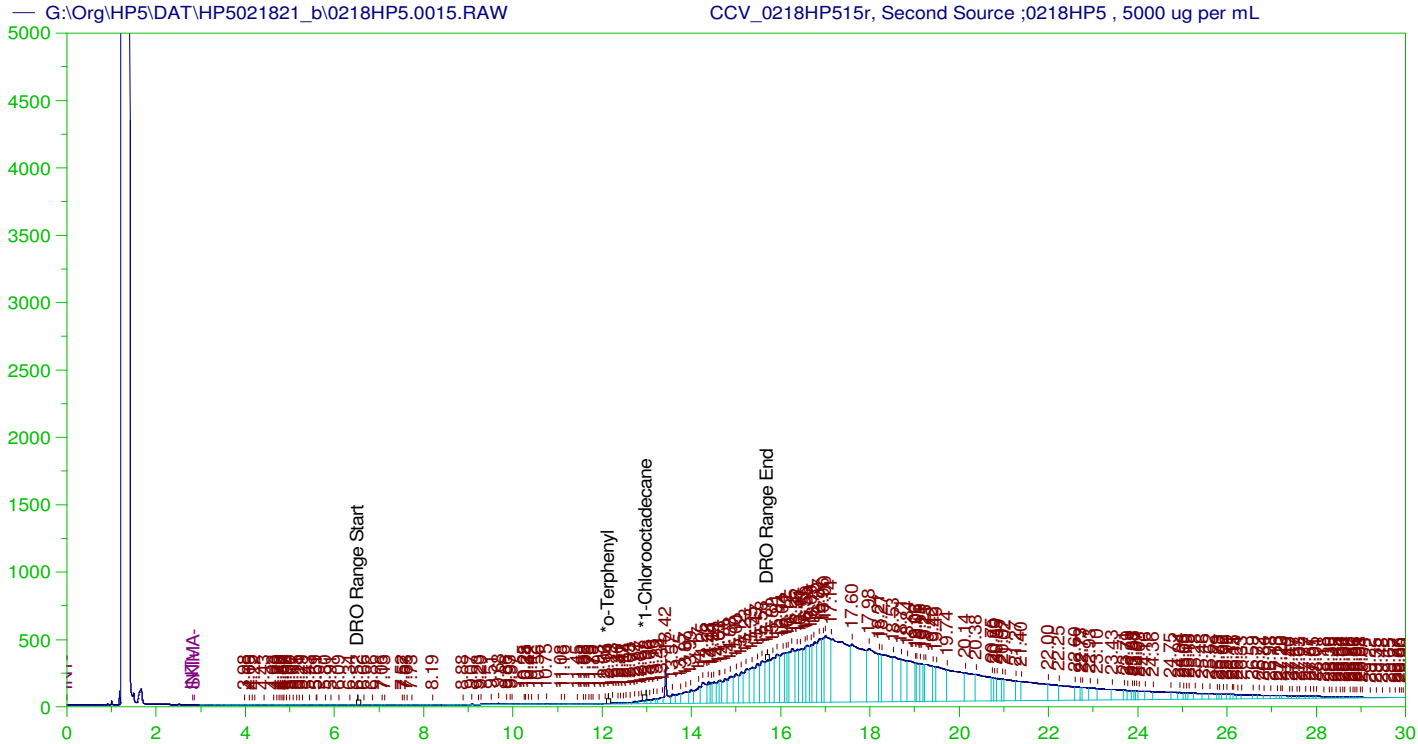
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0014.RAW
Date & Time Acquired: 2/18/2021 7:45:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.148 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.949 | 200. | . | . | - |

DRO Area:30445.24 DRO Amount: 1.033537
TEH Area:297634.4 TEH Amount: 10.10392

G:\org\HP5\dat\HP5021821_b\Review\014_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL
Raw File: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW
Date & Time Acquired: 2/18/2021 8:27:37 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | . | .19 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | - |

DRO Area:2.558549E+07 DRO Amount: 0.8964027
TEH Area:1.562544E+08 TEH Amount: 5.474465

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5.47 | .11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | . | .19 | 85-115 |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\015_CCV_0218HP515r_DR_OIL-021811-AA-L0.xls

| Write Sequence Data File | Sample Nan Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.09.20 13:12:26 -06:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/9/2021 12:12:30 P**

Prep Batch **160178** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/11/2021 10:12:00 A**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MB-160178 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/9/2021 | 10/10/2021 |
| Start time: 12:10 PM, 10/9/2021. End time: 10/10/2021 at 6:20 AM. | | | | | | | | | | |
| LCS-160178 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/9/2021 | 10/10/2021 |
| AMN spiked and surrogated Lines 6-16. SGT carried out on 0.9 mL of remaining sample unless otherwise stated by ALN on 10/13/2021. | | | | | | | | | | |
| MB2-160178-Test | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/9/2021 | 10/10/2021 |
| LCS-160178-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/9/2021 | 10/10/2021 |
| All bottles were completely used and disposed of. | | | | | | | | | | |
| B21100756-001A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000957 | | 10/9/2021 | 10/10/2021 |
| Bottle 1/2. Clear. SGT was carried out on this sample. | | | | | | | | | | |
| B21100806-001A | Aqueous | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/10/2021 | 10/11/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100806-001AMS | Aqueous | 2 | 525 | 0 | 0 | 1.00 | 0.0019 | | 10/10/2021 | 10/11/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100806-001AMSD | Aqueous | 2 | 525 | 0 | 0 | 1.00 | 0.0019 | | 10/10/2021 | 10/11/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100806-002A | Aqueous | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/10/2021 | 10/11/2021 |
| Bottle 1/2. Clear, light sediment. SGT carried out on 0.8 mL of remaining sample by ALN on 10/13/2021. | | | | | | | | | | |
| B21100806-002AMS-RRO | Aqueous | 2 | 510 | 0 | 0 | 1.00 | 0.00196 | | 10/10/2021 | 10/11/2021 |
| Bottle 2/2. Clear, light sediment. | | | | | | | | | | |
| B21100806-002AMSD-RRO | Aqueous | 2 | 510 | 0 | 0 | 1.00 | 0.00196 | | 10/10/2021 | 10/11/2021 |
| Bottle 2/2. Clear, light sediment. | | | | | | | | | | |
| B21100806-003A | Aqueous | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/10/2021 | 10/11/2021 |
| Bottle 1/2. Clear, light sediment. SGT carried out on 0.8 mL of remaining sample by ALN on 10/13/2021. | | | | | | | | | | |
| B21100806-004A | Aqueous | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/10/2021 | 10/11/2021 |
| Bottle 1/2. Turbid, light sediment. SGT carried out on 0.8 mL of remaining sample by ALN on 10/13/2021. | | | | | | | | | | |
| B21100806-005A | Aqueous | 2 | 1060 | 0 | 0 | 1.00 | 0.000943 | | 10/10/2021 | 10/11/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14354 | Dichloromethane EC119 | 8/3/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| SG211004(13376) | Baked Silica Gel | all | 5g | 2/28/2030 |
| Sulfate 10/07/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100uL | 9/1/2026 |
| DRO211009A | Triacontane SURR 1000 ug/mL | MB2, MBtest2 | 200 uL, 1 | 4/6/2026 |

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/9/2021 12:12:30 P**

Prep Batch **160178** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/11/2021 10:12:00 A**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| B21100806-006A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/10/2021 | 10/11/2021 |
| B21100806-007A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/10/2021 | 10/11/2021 |
| MB2-160178-Test2 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/9/2021 | 10/11/2021 |

| Number | Reagent Name | Exp Date | A |
|---|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 | |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 | |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 | |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 | |
| 14354 | Dichloromethane EC119 | 8/3/2023 | |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| SG211004(13376) | Baked Silica Gel | all | 5g | 2/28/2030 |
| Sulfate 10/07/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100uL | 9/1/2026 |
| DRO211009A | Triacontane SURR 1000 ug/mL | MB2, MBtest2 | 200 uL, 1 | 4/6/2026 |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*13-Oct-21*

**Run ID** GCFID-HP5-B_211011A

**Run Start Date:** 10/11/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766294 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/11/2021 6:11: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.227833 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.950524 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2076886 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.227833 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766295 | CCV_1011HP51 | HC-8015-DRO- | CCV | | 10/11/2021 6:54: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.877404 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2262173 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766296 | CCV_1011HP51 | HC-8015-DRO- | CCV | | 10/11/2021 7:37: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.722528 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.25944 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 102% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2052182 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766297 | LCS-160178 | HC-8015-DRO- | LCS-DOD | | 10/11/2021 9:02: | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.08545 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 94% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.07628 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 101% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1900078 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 95% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766298 | MB-160178 | HC-8015-DRO- | MBLK | | 10/11/2021 9:45: | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0749 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1783996 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 89% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766299 | B21100756-001 | HC-8015-DRO- | SAMP | | 10/11/2021 10:2 | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0372273 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0841203 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0716793 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1478698 | | 0.1914 | 0 | 0 | 0.0004106 | 0.002 | 0 | 77% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.14787 | | 0.1914 | 0 | 0 | 0.0004106 | 0.002 | 0 | 77% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766300 | B21100806-001 | HC-8015-DRO- | SAMP | | 10/11/2021 11:1 | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.4943264 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.17808601 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.9317865 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1575454 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 83% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766301 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/12/2021 3:27: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.256114 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.986891 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2097943 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.256114 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766302 | CCV_1011HP52 | HC-8015-DRO- | CCV | | 10/12/2021 4:10: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2237983 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 112% | 80 | 120 | 0% | |
| TEH(Oil Range) | X | mg/L | | 4.990416 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766303 | CCV_1011HP52 | HC-8015-DRO- | CCV | | 10/12/2021 4:53: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.46444 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 103% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.02194 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 107% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2158708 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 108% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766304 | B21100806-005 | HC-8015-DRO- | SAMP | | 10/12/2021 6:19: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766304 | B21100806-005 | HC-8015-DRO- | SAMP | | 10/12/2021 6:19: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0366827 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.17139933 | | 0 | 0 | 0 | 0.0828897 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.2301624 | | 0 | 0 | 0 | 0.0706307 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.1837895 | | 0.1886 | 0 | 0 | 0.0004045 | 0.002 | 0 | 97% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766305 | B21100806-006 | HC-8015-DRO- | SAMP | | 10/12/2021 7:44: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1895468 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 99% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1895468 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766306 | B21100806-007 | HC-8015-DRO- | SAMP | | 10/12/2021 8:27: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1969312 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 102% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1969312 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766307 | B21100806-004 | HC-8015-DRO- | SAMP | | 10/12/2021 9:09: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0.2053661 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.1219954 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 64% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766308 | B21100806-002 | HC-8015-DRO- | SAMP | | 10/12/2021 9:52: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 3.147821 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.38234234 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.749227 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.153523 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 81% | 56 | 125 | 0% | |
| TEH(Oil Range) | X | mg/L | | 0.68103510 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766309 | B21100806-003 | HC-8015-DRO- | SAMP | | 10/12/2021 12:0 | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.1821419 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.57365459 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 1.602794 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1518294 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 80% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766310 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/12/2021 2:08: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.165439 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.874528 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2040152 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.165439 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766311 | CCV_1011HP54 | HC-8015-DRO- | CCV | | 10/12/2021 2:52: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.566519 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 91% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2106331 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766312 | CCV_1011HP54 | HC-8015-DRO- | CCV | | 10/12/2021 3:34: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.38329 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 103% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.93458 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 106% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2145986 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766313 | LCS-160178-RR | HC-8015-DRO- | LCS-DOD | | 10/12/2021 5:00: | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.510794 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 90% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1827493 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 91% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766314 | B21100806-002 | HC-8015-DRO- | MS-DOD | | 10/12/2021 6:26: | 1 | 160178 | 10/10/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.30348015 | | 9.8 | 0.6810351 | 0 | 0.172284 | 0.588 | 0 | 88% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.3157582 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 81% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766315 | B21100806-002 | HC-8015-DRO- | MSD-DOD | | 10/12/2021 7:53: | 1 | 160178 | 10/10/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.10872269 | | 9.8 | 0.6810351 | 9.3034801 | 0.172284 | 0.588 | 0 | 86% | 41 | 113 | 2% | |
| o-Terphenyl | S | mg/L | | 0.3542931 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 90% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766316 | B21100806-001 | HC-8015-DRO- | MS-DOD | | 10/12/2021 9:19: | 1 | 160178 | 10/10/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 31.13492 | | 28.5 | 0.4943264 | 0 | 0.07391 | 0.57 | 0 | 108% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 33.88804 | | 28.5 | 0.9317865 | 0 | 0.14231 | 0.57 | 50 | 116% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.3795471 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766317 | B21100806-001 | HC-8015-DRO- | MSD-DOD | | 10/12/2021 10:4 | 1 | 160178 | 10/10/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 31.02532 | | 28.5 | 0.4943264 | 31.13492 | 0.07391 | 0.57 | 0 | 107% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 33.75457 | | 28.5 | 0.9317865 | 33.88804 | 0.14231 | 0.57 | 50 | 115% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.374906 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766318 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/13/2021 12:1 | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.059366 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2131862 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

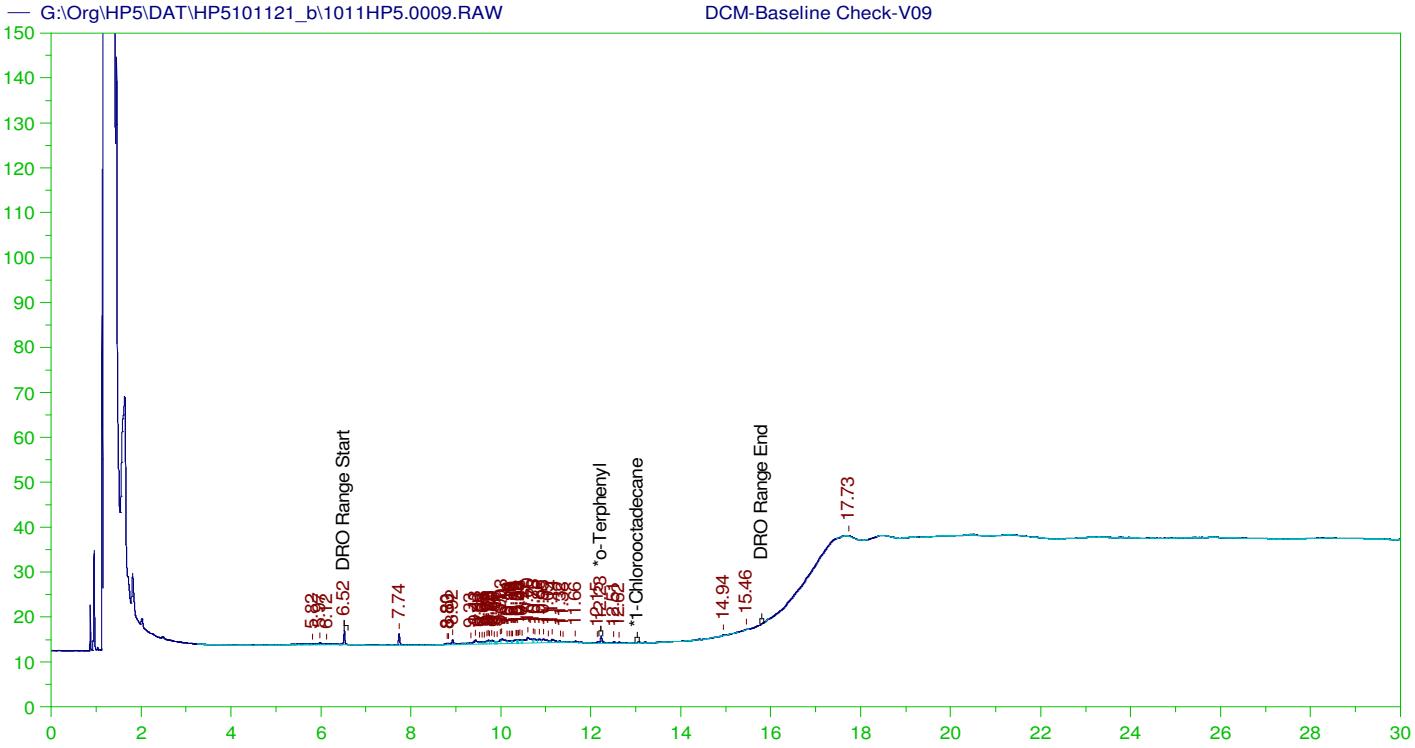
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766319 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 12:5 | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.017043 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.226186 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766320 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 1:38: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.79665 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 105% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.35982 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.220412 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.09r | DCM-Baseline Check-V09 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.10r | MARKER_1011HP510r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.11r | MARKER_1011HP511r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.12r | CCV_1011HP512r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.13r | CCV_1011HP513r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.15r | LCS-160178 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.16r | MB-160178 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.17r | B21100756-001A ;1011HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1045 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.18r | B21100806-001A ;1011HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.19r | B21100806-002A ;1011HP5 ,  $HC-8015-DRO-W, NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.20r | B21100806-003A ;1011HP5 ,  $HC-8015-DRO-W,  NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.21r | DCM-Baseline Check-V21 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.22r | B21100806-004A ;1011HP5 ,  $HC-8015-DRO-W,  NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.23r | MARKER_1011HP523r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.24r | MARKER_1011HP524r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.25r | CCV_1011HP525r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.26r | CCV_1011HP526r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.28r | B21100806-005A ;1011HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101128-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1060 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.30r | B21100806-006A ;1011HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.31r | B21100806-007A ;1011HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.32r | B21100806-004A ;1011HP5 ,  $HC-8015-DRO-W,  RR | G:\Org\HP5\Methods\DR_8015-101132-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-101132-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.33r | B21100806-002A ;1011HP5 ,  $HC-8015-DRO-W,  RR | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.34r | DCM-Baseline Check-V34 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.35r | DCM-Baseline Check-V35 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.36r | B21100806-003A ;1011HP5 ,  $HC-8015-DRO-W,  RR | G:\Org\HP5\Methods\D3_8015-101136-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.37r | DCM-Baseline Check-V37 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.38r | MARKER_1011HP538r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.39r | MARKER_1011HP539r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.40r | CCV_1011HP540r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.41r | CCV_1011HP541r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.42r | DCM-Baseline Check-V42 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.43r | LCS-160178-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-101143-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.44r | DCM-Baseline Check-V44 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.45r | B21100806-002AMS-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.46r | DCM-Baseline Check-V46 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.47r | B21100806-002AMSD-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.48r | DCM-Baseline Check-V48 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.49r | B21100806-001AMS ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.50r | DCM-Baseline Check-V50 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.51r | B21100806-001AMSD ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

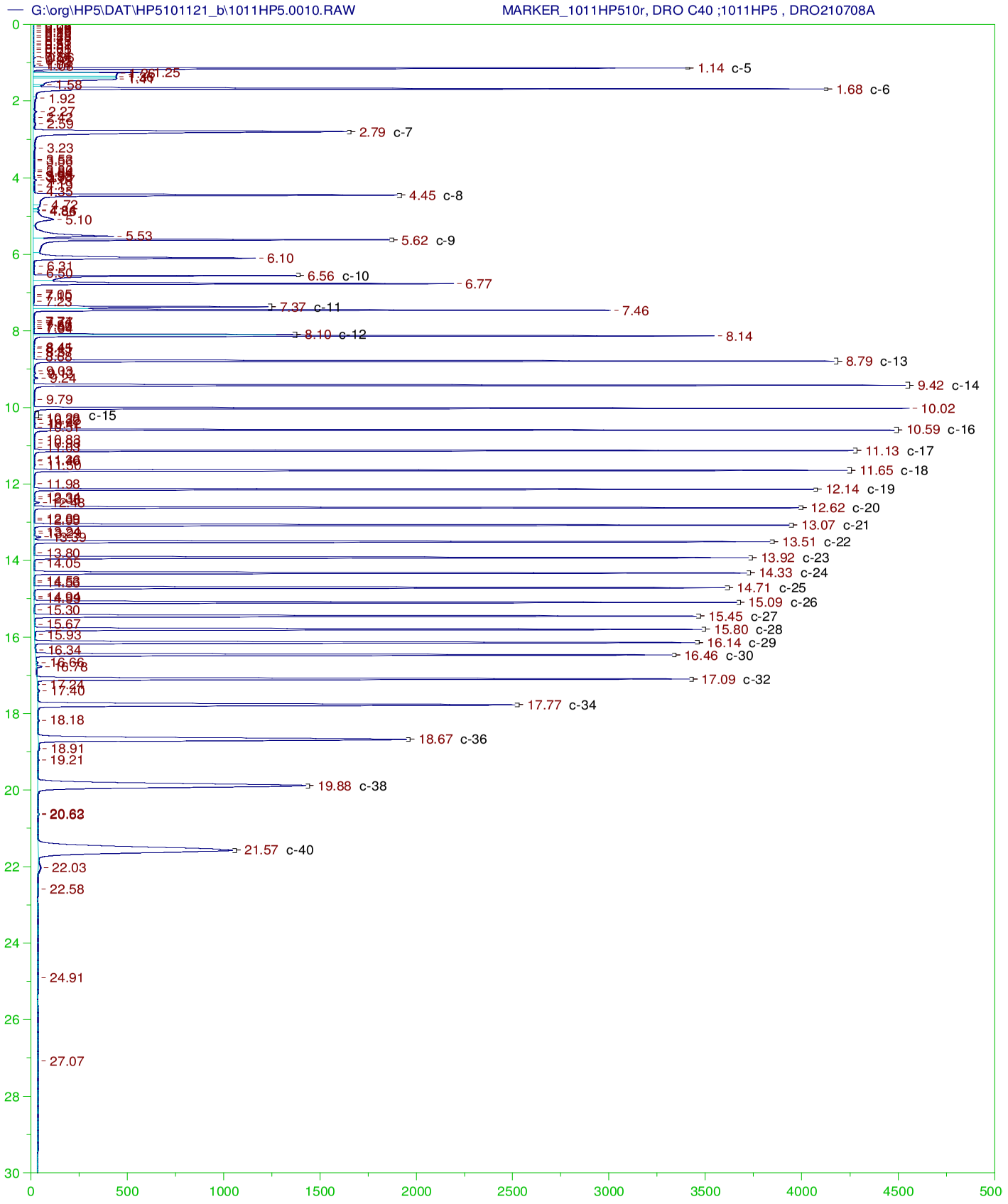
Sample Name: DCM-Baseline Check-V09
Raw File: G:\Org\HP5\DAT\HP5101121_b\1011HP5.0009.RAW
Date & Time Acquired: 10/11/2021 4:45:44 PM
Method File: g:\org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.226 | 200. | .131 | .07 | - |
| *1-Chlorooctadecane | 29.987 | 200. | . | . | - |

DRO Area:117075.3 DRO Amount: 3.974401
TEH Area:139950.9 TEH Amount: 4.750971

G:\org\HP5\dat\HP5101121_b\Review\009_DCM-Baseline Chec_DR_8015-HS-LEXP.xls


G:\org\HP5\DAT\HP5101121_b\1011HP5.0010.RAW
MARKER_1011HP510r, DRO C40 ;1011HP5 , DRO210708A
1.14 c-5
1.68 c-6
2.79 c-7
4.45 c-8
5.62 c-9
6.56 c-10
7.37 c-11
8.10 c-12
8.79 c-13
9.42 c-14
10.02
10.59 c-16
11.13 c-17
11.65 c-18
12.14 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.92 c-23
14.33 c-24
14.71 c-25
15.09 c-26
15.45 c-27
15.80 c-28
16.14 c-29
16.46 c-30
17.09 c-32
17.77 c-34
18.67 c-36
19.88 c-38
21.57 c-40
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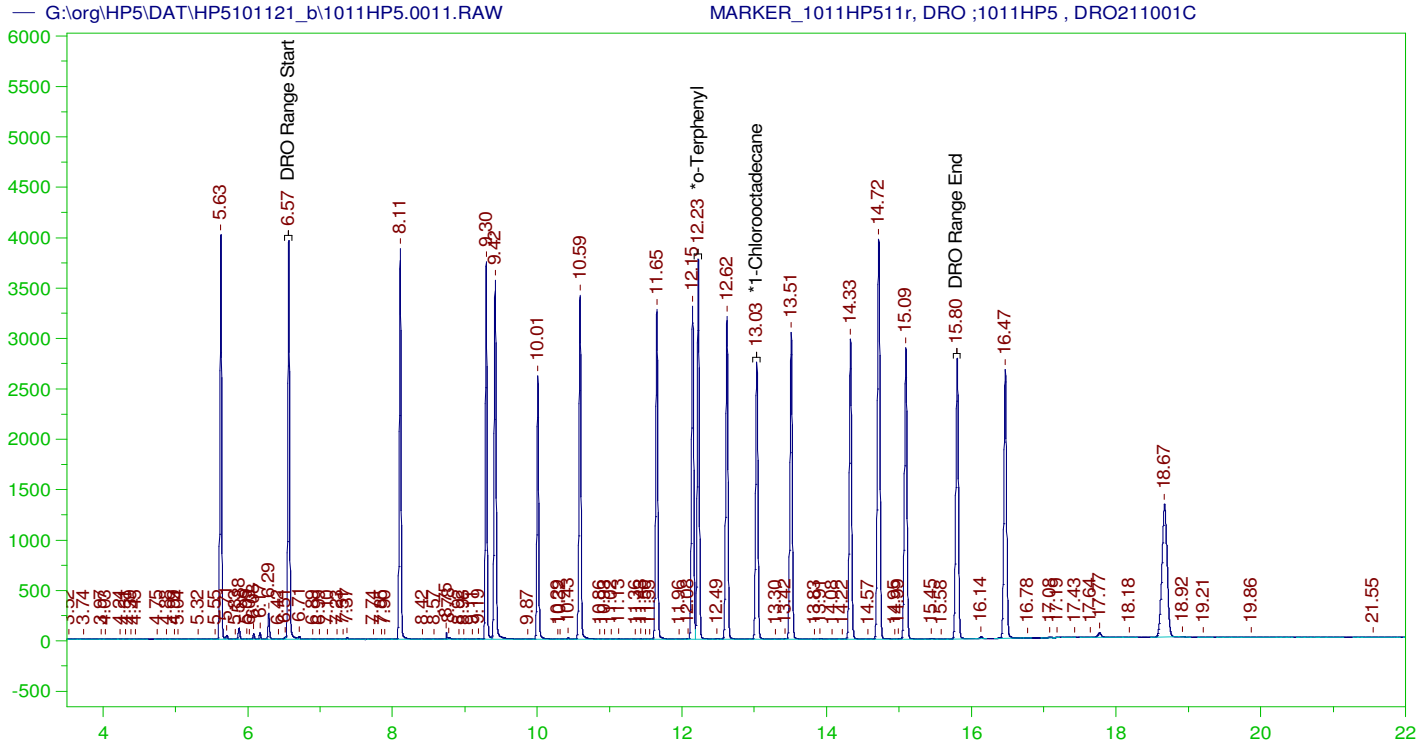



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

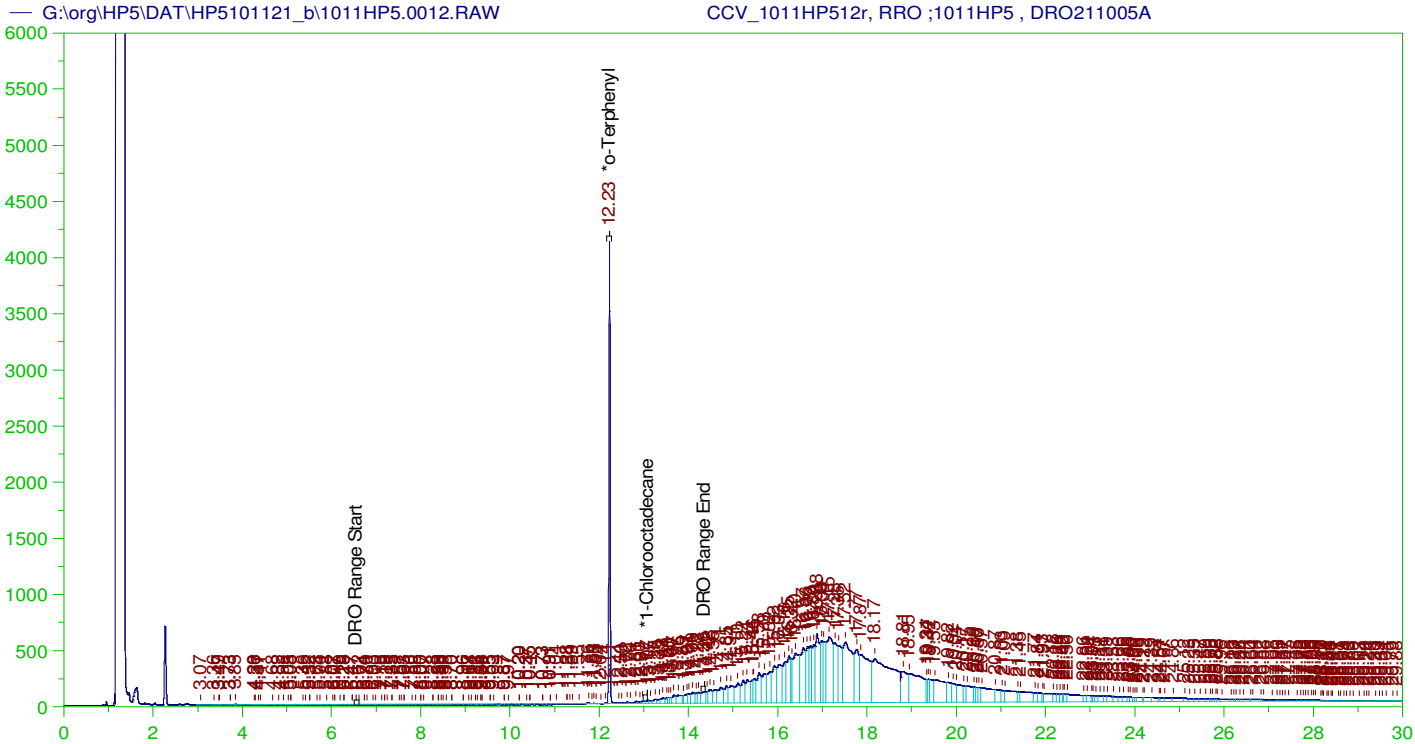
Sample Name: MARKER_1011HP511r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0011.RAW
Date & Time Acquired: 10/11/2021 6:11:31 PM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | .2 | .208 | 103.84 | - |
| *1-Chlorooctadecane | 13.034 | .2 | .168 | 84.06 | - |

DRO Area:9.508335E+07 DRO Amount: 3.227833
TEH Area:1.163719E+08 TEH Amount: 3.950524

G:\org\HP5\dat\HP5101121_b\Review\011_MARKER_1011HP511r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP512r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0012.RAW
Date & Time Acquired: 10/11/2021 6:54:26 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | 227.884 | 113.94 | - |
| *1-Chlorooctadecane | 13.074 | 200. | 3.494 | 1.75 | - |

DRO Area:7287515 DRO Amount: 255.3223
TEH (Oil Range) Area:1.392129E+08 TEH (Oil Range) Amount: 4877.404

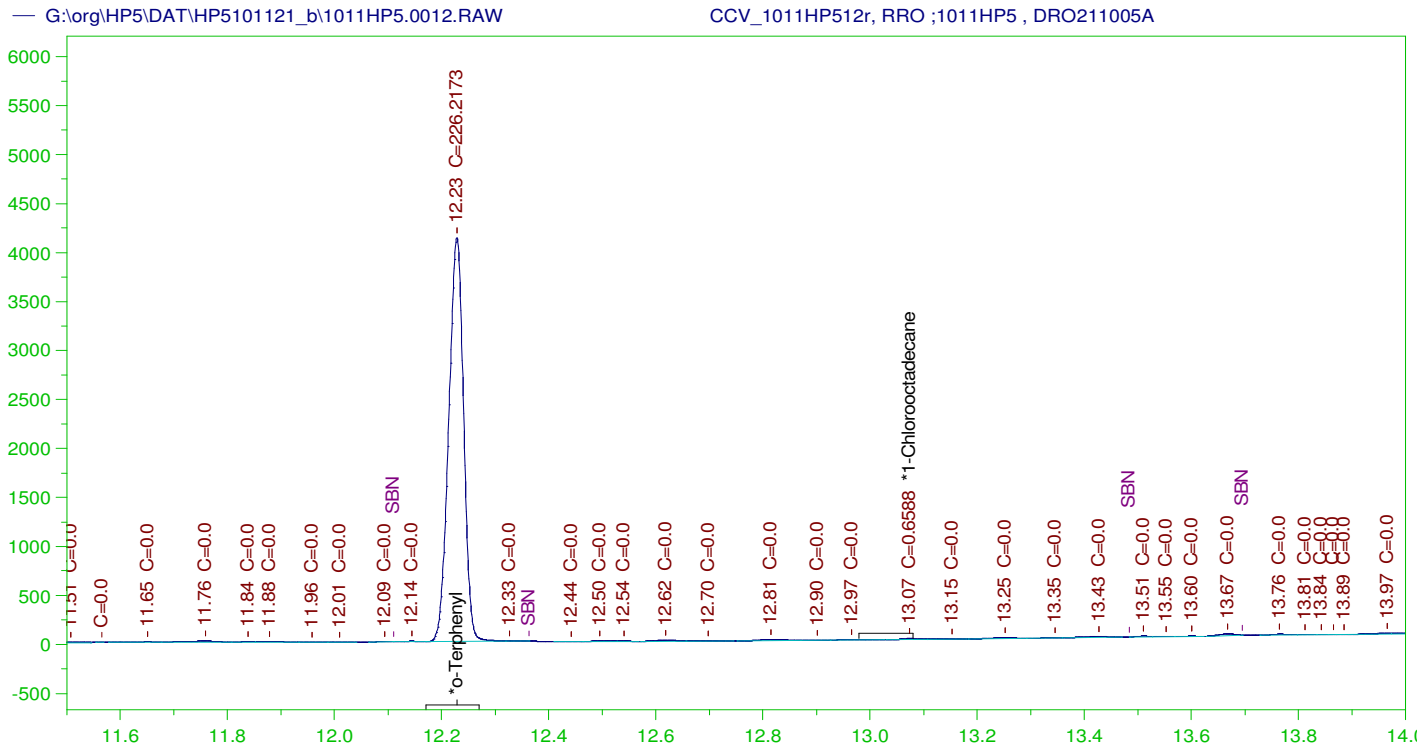
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4877.4 | 97.55 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | 227.884 | 113.94 | 85-115 |
| *1-Chlorooctadecane | 13.074 | 200. | 3.494 | 1.75 | 85-115 |

AMN 10/19/2021

G:\org\HP5\dat\HP5101121_b\Review\012_CCV_1011HP512r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP512r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0012.RAW
Date & Time Acquired: 10/11/2021 6:54:26 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | 226.217 | 113.11 | - |
| *1-Chlorooctadecane | 13.074 | 200. | .659 | .33 | - |

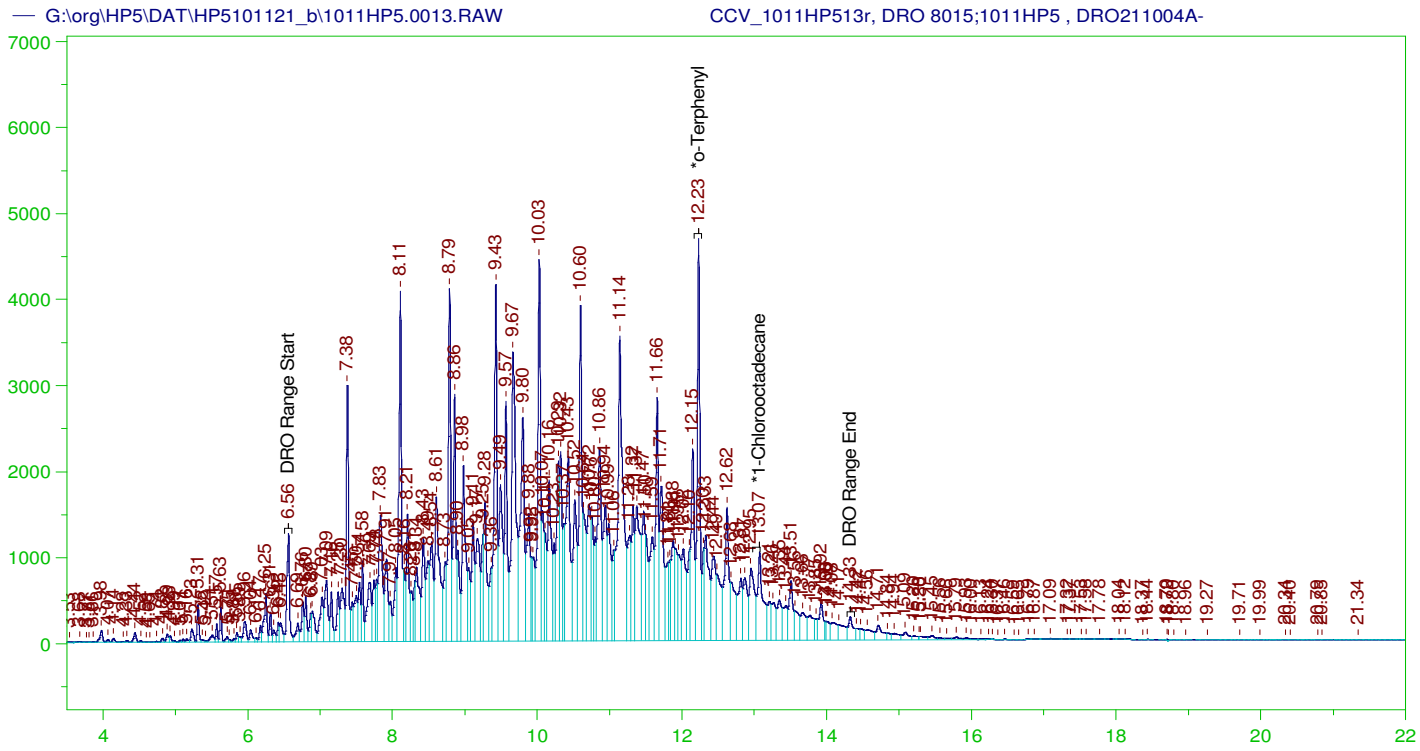
DRO Area:889509.1 DRO Amount: 31.16447
TEH Area:2139026 TEH Amount: 74.94202

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 74.94 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | 226.217 | 113.11 | 85-115 |
| *1-Chlorooctadecane | 13.074 | 200. | .659 | .33 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\012_CCV_1011HP512r_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP513r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0013.RAW
Date & Time Acquired: 10/11/2021 7:37:20 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.232 | 200. | 331.506 | 165.75 | - |
| *1-Chlorooctadecane | 13.071 | 200. | 151.001 | 75.5 | - |

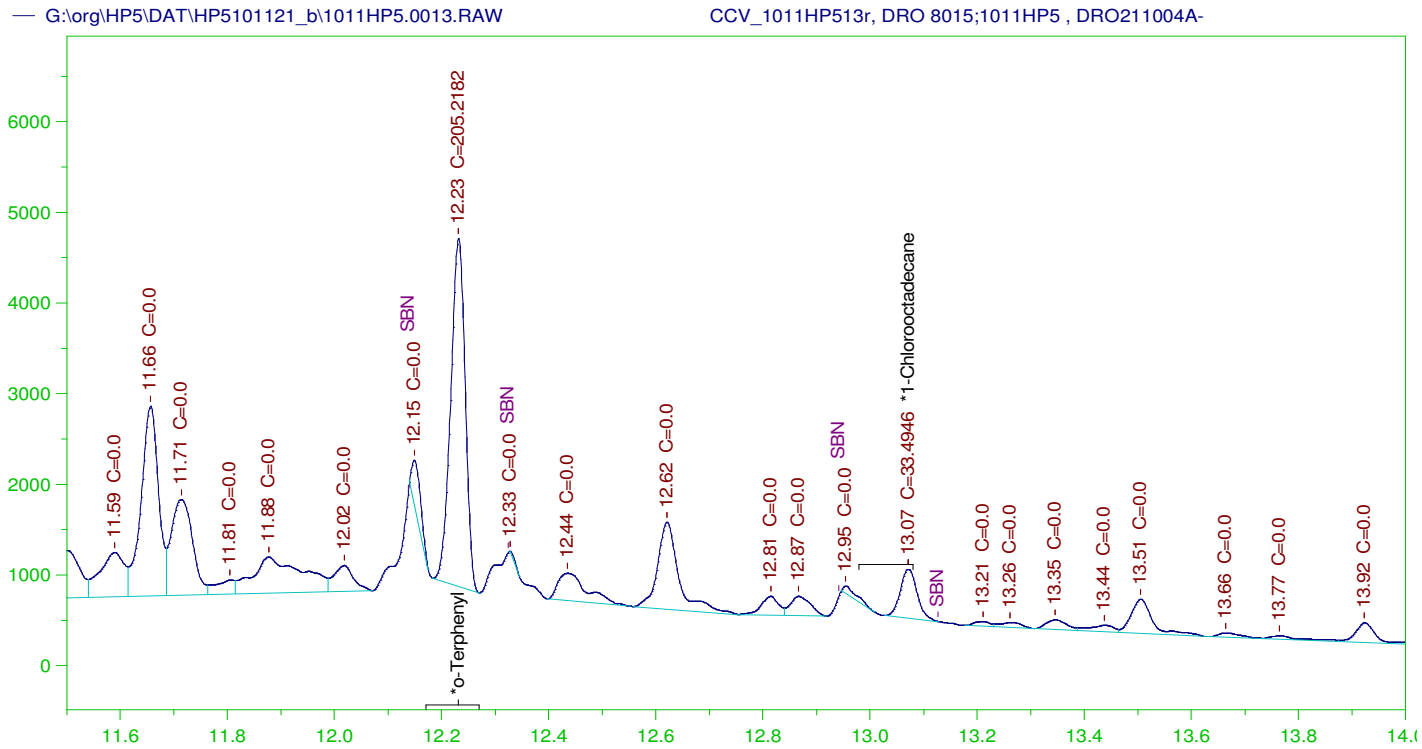
DRO Area:4.337675E+08 DRO Amount: 14725.28
TEH Area:4.495023E+08 TEH Amount: 15259.44

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15259.44 | 101.73 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.232 | 200. | 331.506 | 165.75 | 85-115 |
| *1-Chlorooctadecane | 13.071 | 200. | 151.001 | 75.5 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\013_CCV_1011HP513r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP513r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0013.RAW
Date & Time Acquired: 10/11/2021 7:37:20 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.232 | 200. | 205.218 | 102.61 | - |
| *1-Chlorooctadecane | 13.071 | 200. | 33.495 | 16.75 | - |

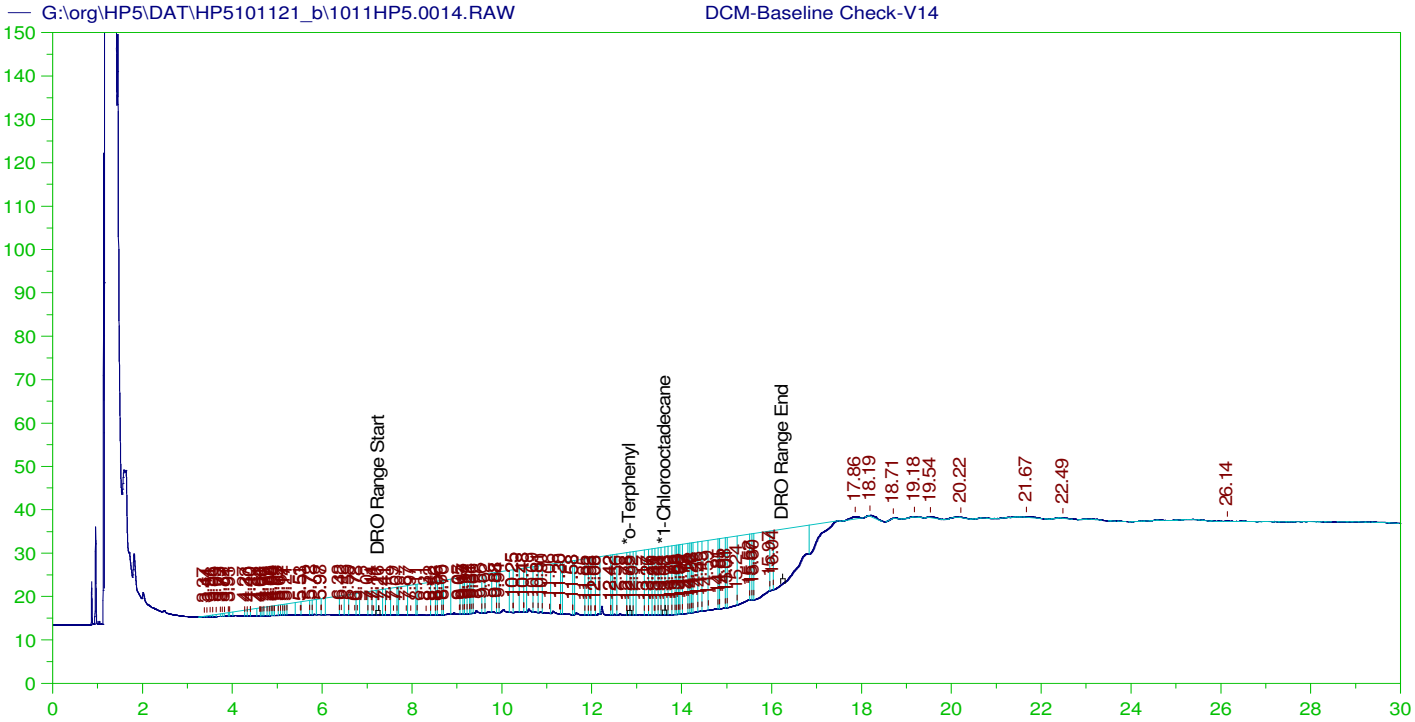
DRO Area:2.405693E+08 DRO Amount: 8166.705
TEH Area:2.499675E+08 TEH Amount: 8485.748

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8485.75 | 56.57 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.232 | 200. | 205.218 | 102.61 | 85-115 |
| *1-Chlorooctadecane | 13.071 | 200. | 33.495 | 16.75 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\013_CCV_1011HP513r_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0014.RAW
Date & Time Acquired: 10/11/2021 8:20:06 PM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

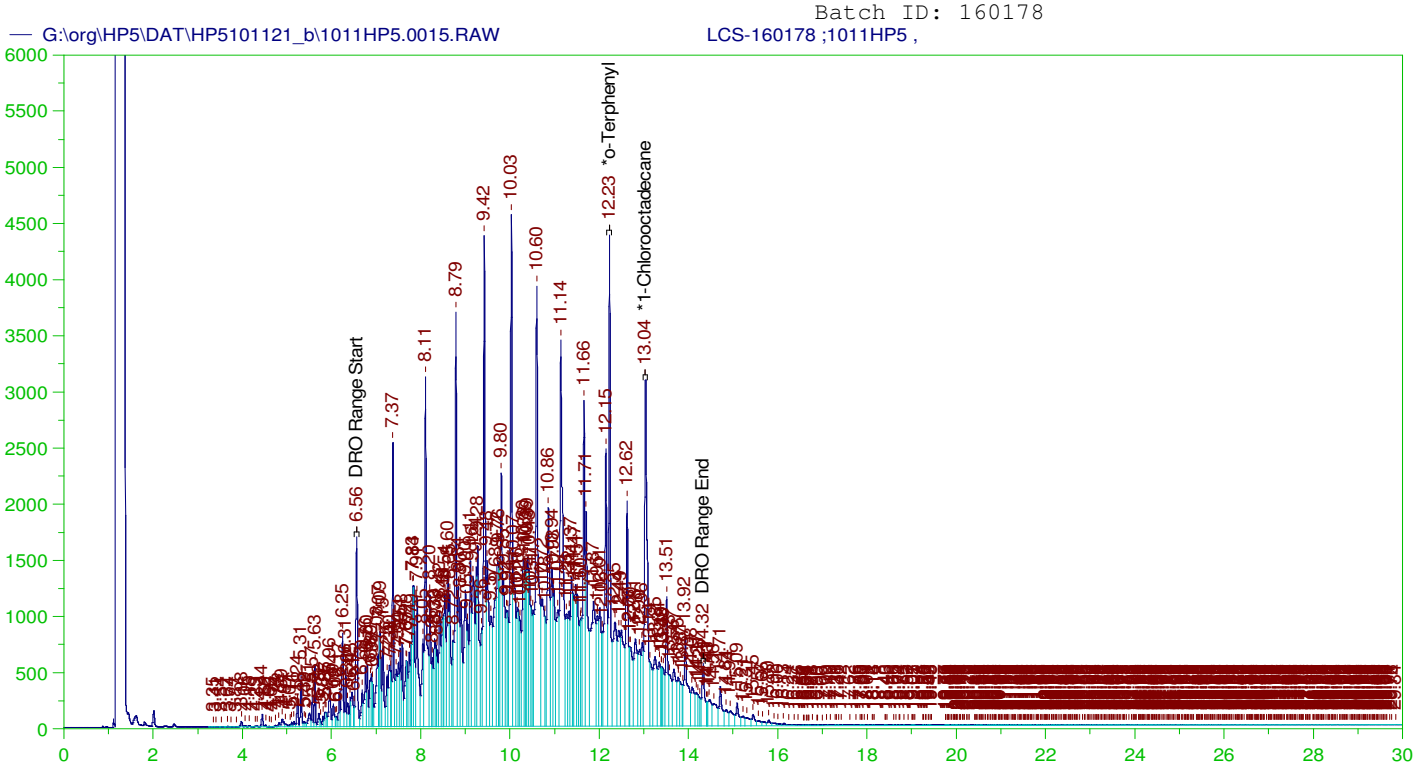
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.852 | 200. | 1.749 | .87 | - |
| *1-Chlorooctadecane | 13.628 | 200. | 1.909 | .95 | - |

DRO Area:6678120 DRO Amount: 226.7048
TEH Area:7249502 TEH Amount: 246.1018

G:\org\HP5\dat\HP5101121_b\Review\014_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0015.RAW
Date & Time Acquired: 10/11/2021 9:02:53 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .329 | 164.42 | - |
| *1-Chlorooctadecane | 13.036 | .2 | .352 | 176.18 | - |

DRO Area:4.149198E+08 DRO Amount: 14.08545
TEH Area:4.441069E+08 TEH Amount: 15.07628

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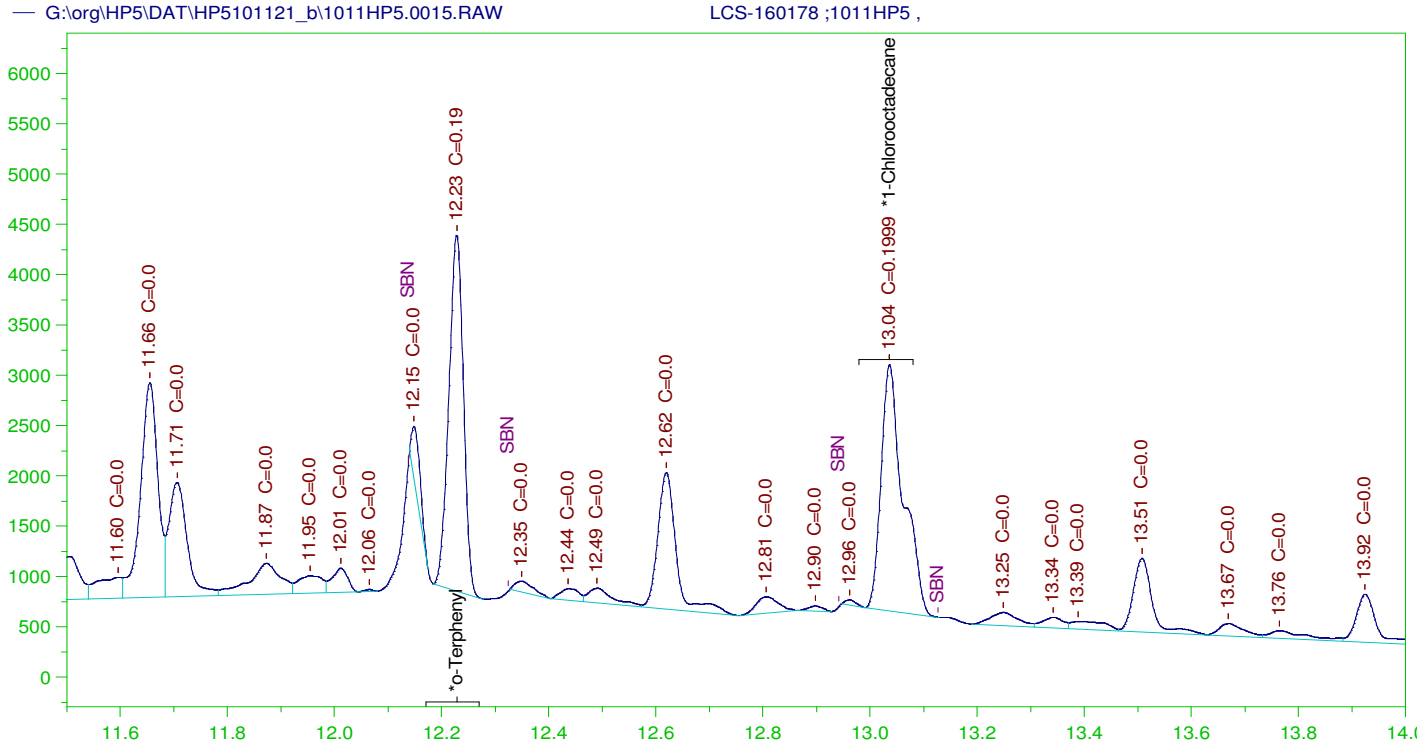
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0015.RAW
Date & Time Acquired: 10/11/2021 9:02:53 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

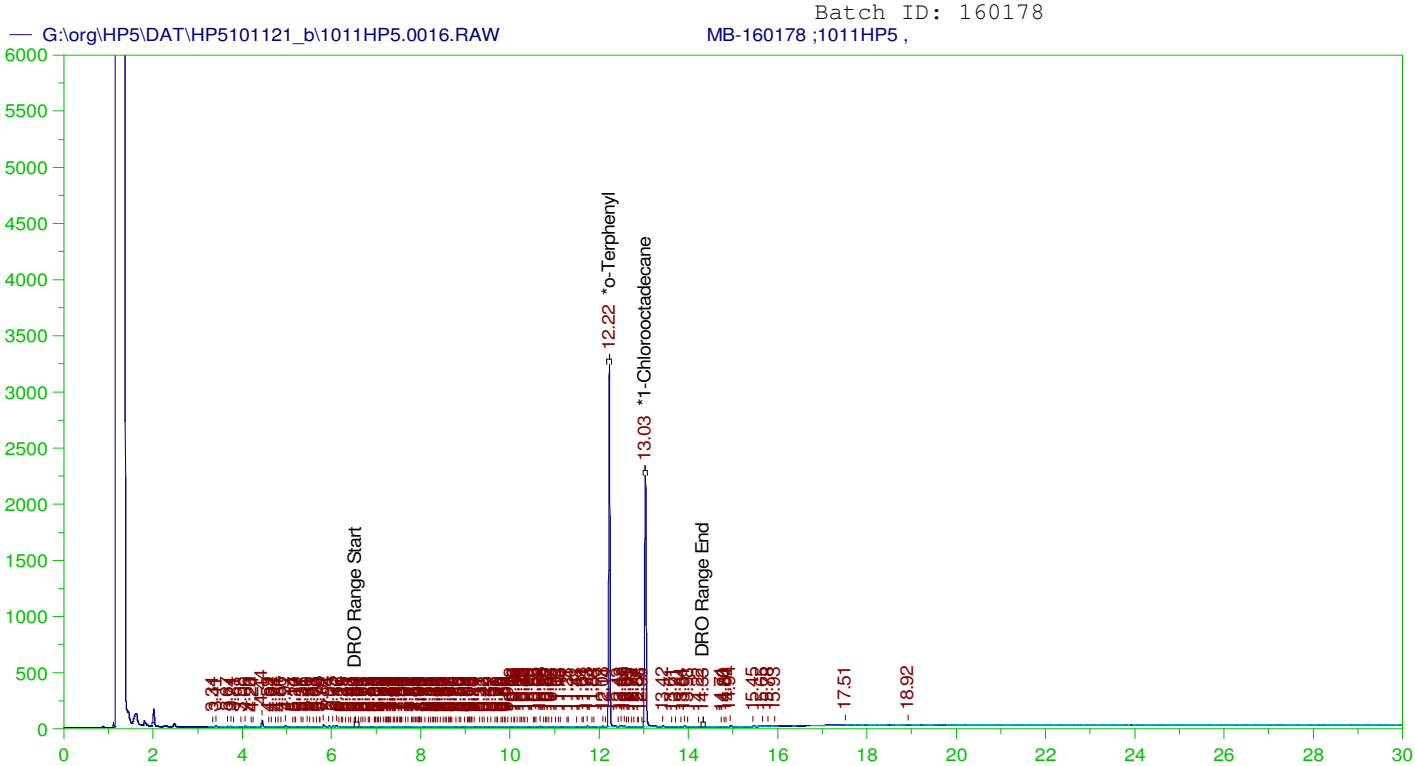
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .19 | 95. | - |
| *1-Chlorooctadecane | 13.036 | .2 | .2 | 99.96 | - |

DRO Area:2.042044E+08 DRO Amount: 6.93221
TEH Area:2.158574E+08 TEH Amount: 7.327799

G:\org\HP5\dat\HP5101121_b\Review\015_LCS-160178_DS_8015-HS-L#.xls

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

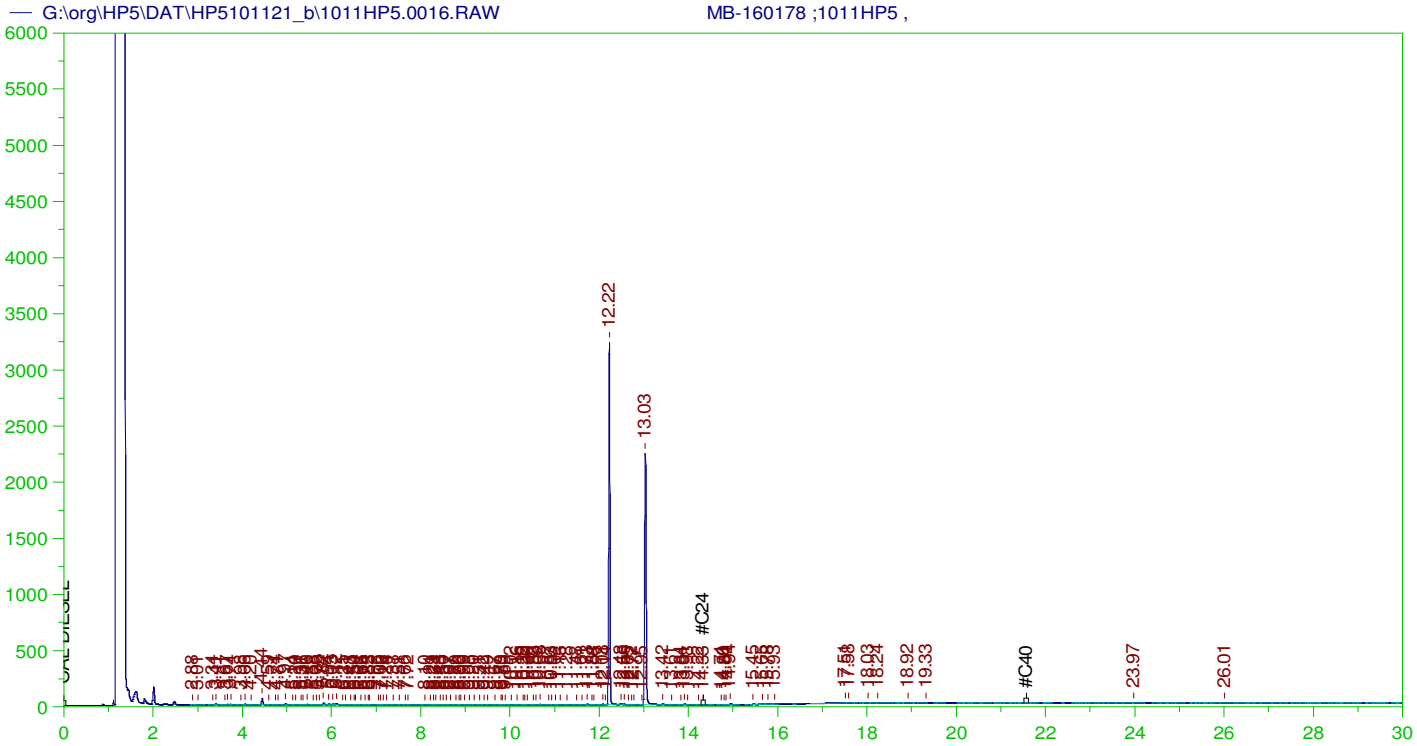
Sample Name: MB-160178 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0016.RAW
Date & Time Acquired: 10/11/2021 9:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | .2 | .178 | 89.2 | - |
| *1-Chlorooctadecane | 13.032 | .2 | .14 | 70.23 | - |

DRO Area:471337.6 DRO Amount: 1.600069E-02
TEH Area:969659.3 TEH Amount: 3.291742E-02

G:\org\HP5\dat\HP5101121_b\Review\016_MB-160178_DR_8015-C24-HS-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160178 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0016.RAW
Date & Time Acquired: 10/11/2021 9:45:36 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:74366.88 RRO AMOUNT: 2.605487E-03

G:\org\HP5\dat\HP5101121_b\Review\016_MB-160178_DR_OIL-S-AJ-L%.xls

**ERH1777 (RHSF, Pre-Chlorination)** Batch ID: 160178

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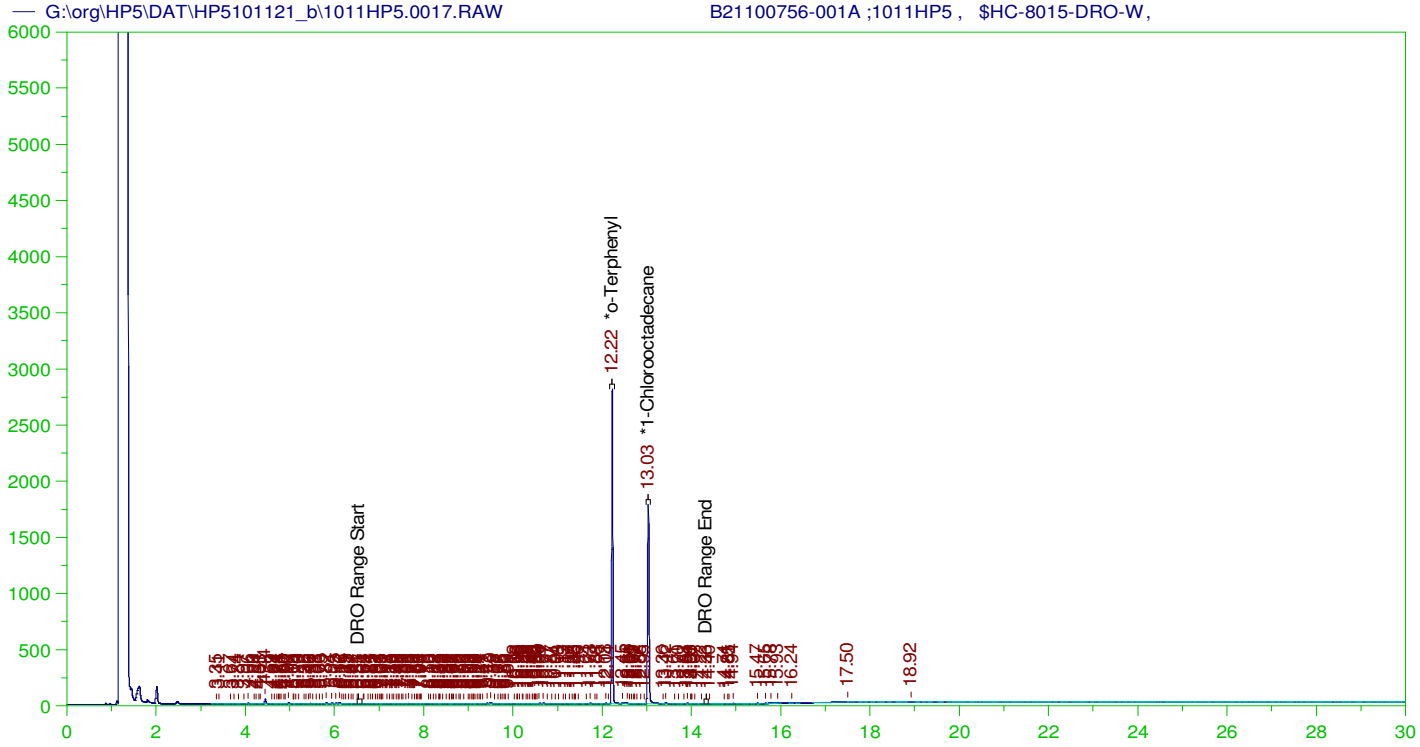



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100756-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0017.RAW
Date & Time Acquired: 10/11/2021 10:28:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

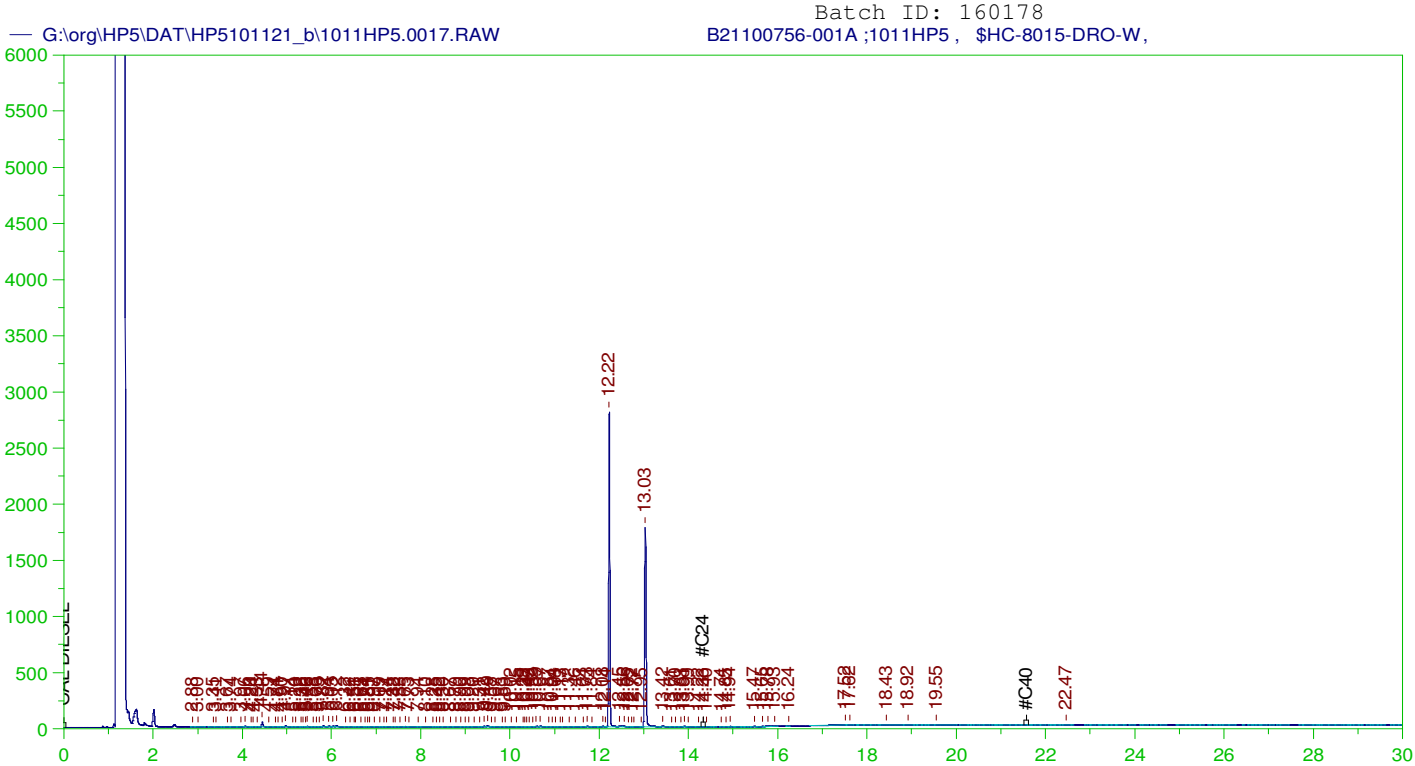
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .191 | .148 | 77.26 | - |
| *1-Chlorooctadecane | 13.029 | .191 | .108 | 56.28 | - |

DRO Area:589638.6 DRO Amount: 1.915473E-02
TEH Area:1029806 TEH Amount: 3.345381E-02

G:\org\HP5\dat\HP5101121_b\Review\017_B21100756-001A_DR_8015-C24-HS-L%.xls

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100756-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0017.RAW
Date & Time Acquired: 10/11/2021 10:28:21 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:71402.17 RRO AMOUNT: 2.393892E-03

G:\org\HP5\dat\HP5101121_b\Review\017_B21100756-001A_DR_OIL-S-AJ-L%.xls

**ERH1784 (RHMW01R)** Batch ID: 160178

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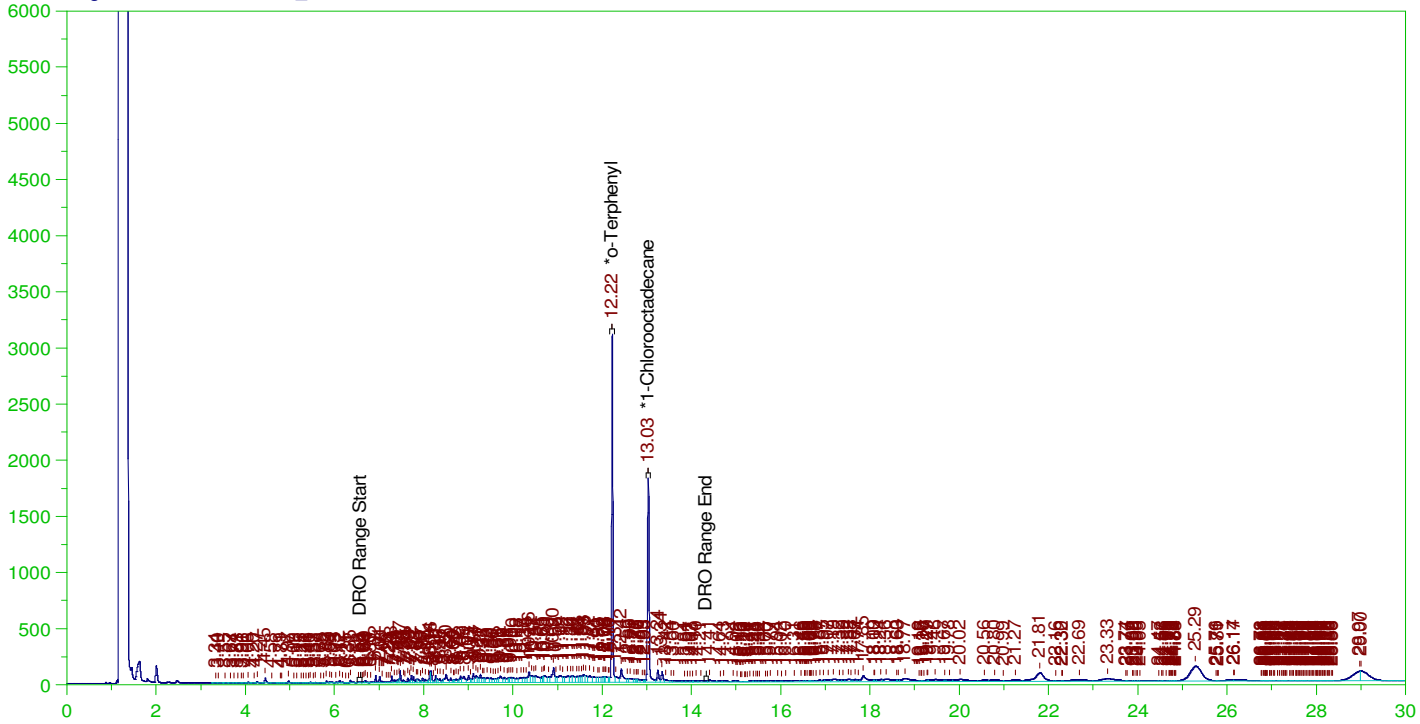



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0018.RAW
Date & Time Acquired: 10/11/2021 11:11:11 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

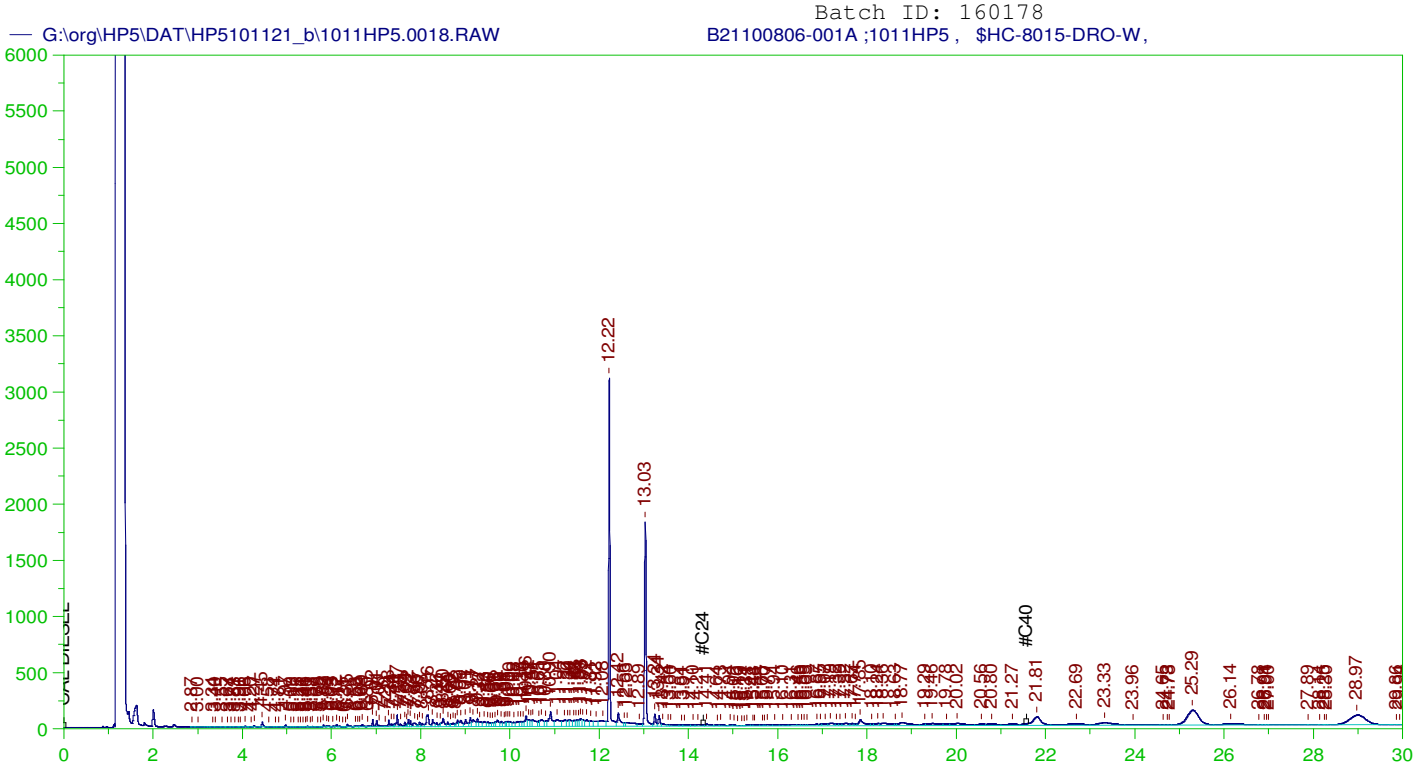
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .19 | .167 | 87.89 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .114 | 59.95 | - |

DRO Area:1.536242E+07 DRO Amount: 0.4943264
TEH Area:2.895758E+07 TEH Amount: 0.9317865

G:\org\HP5\dat\HP5101121_b\Review\018_B21100806-001A_D3_8015-C24-HS-L%.xls

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0018.RAW
Date & Time Acquired: 10/11/2021 11:11:11 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

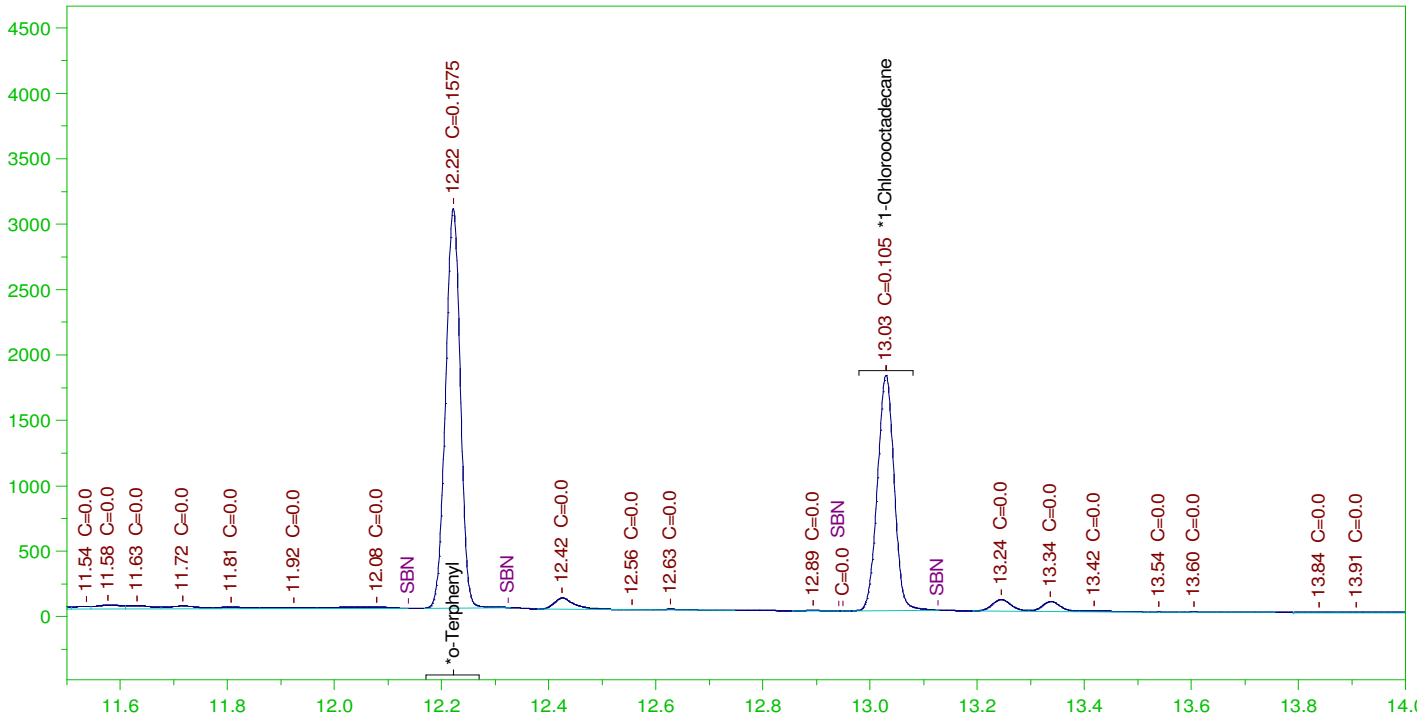
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:5362569 RRO AMOUNT: 0.178086

G:\org\HP5\dat\HP5101121_b\Review\018_B21100806-001A_D3_OIL-S-AJ-L%.xls

**ERH1784 (RHMW01R)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0018.RAW B21100806-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0018.RAW
Date & Time Acquired: 10/11/2021 11:11:11 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

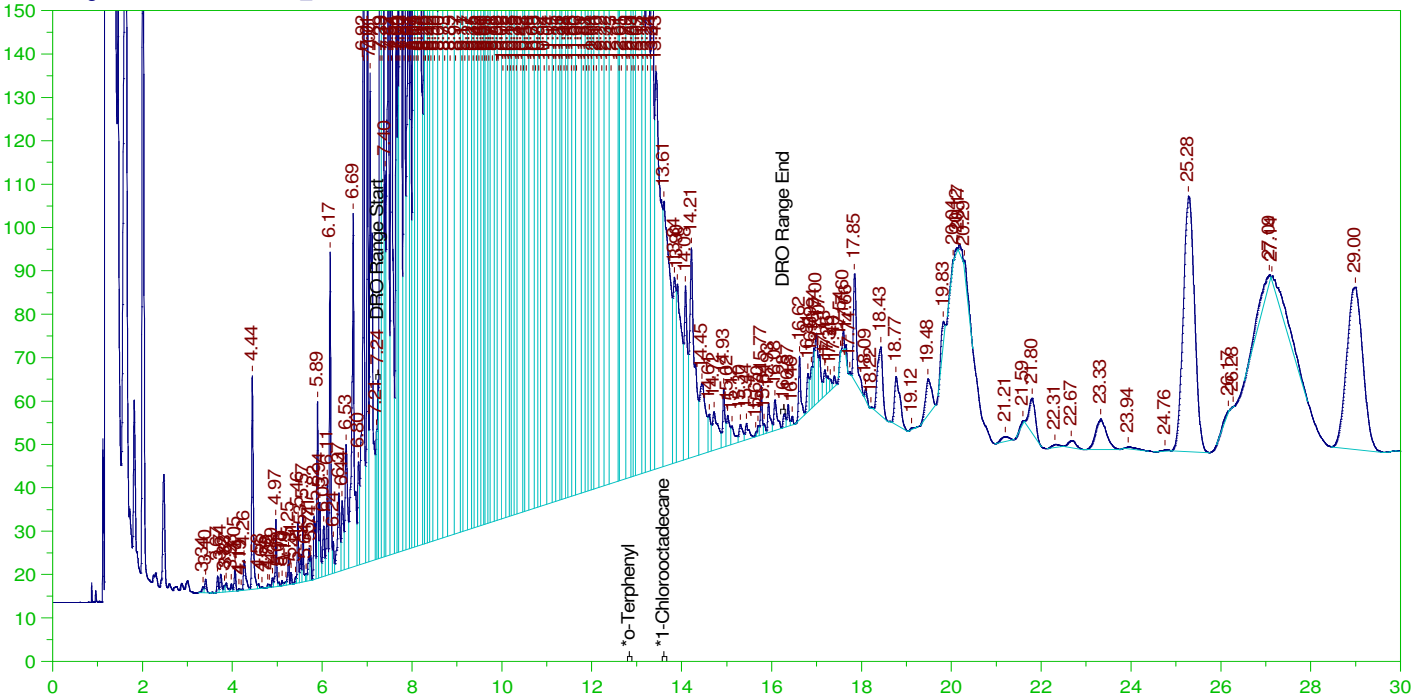
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .19 | .158 | 83.11 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .105 | 55.39 | - |

DRO Area:7225522 DRO Amount: 0.2325002
TEH Area:7803642 TEH Amount: 0.2511027

G:\org\HP5\dat\HP5101121_b\Review\018_B21100806-001A_DS_8015-HS-L#.xls

**ERH1787 (RHMW02)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0019.RAW B21100806-002A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0019.RAW
Date & Time Acquired: 10/11/2021 11:54:00 PM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

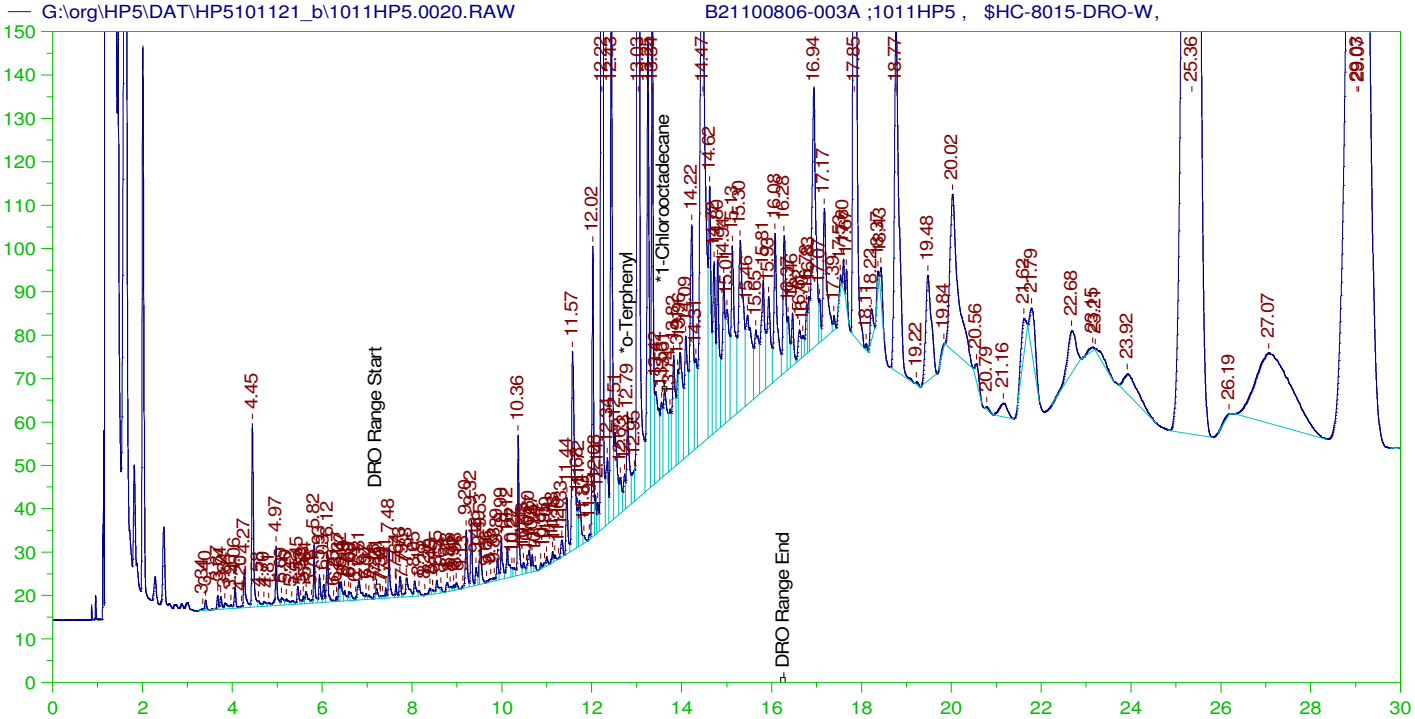
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 29.924 | .19 | . | . - |
| *1-Chlorooctadecane | 13.605 | .19 | .017 | 9.19 - |

DRO Area:1.035945E+08 DRO Amount: 3.333425
TEH Area:1.097716E+08 TEH Amount: 3.532191

G:\org\HP5\dat\HP5101121_b\Review\019_B21100806-002A_DR_8015-HR-LEXP.xls

**ERH1790 (RHMW03)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0020.RAW B21100806-003A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

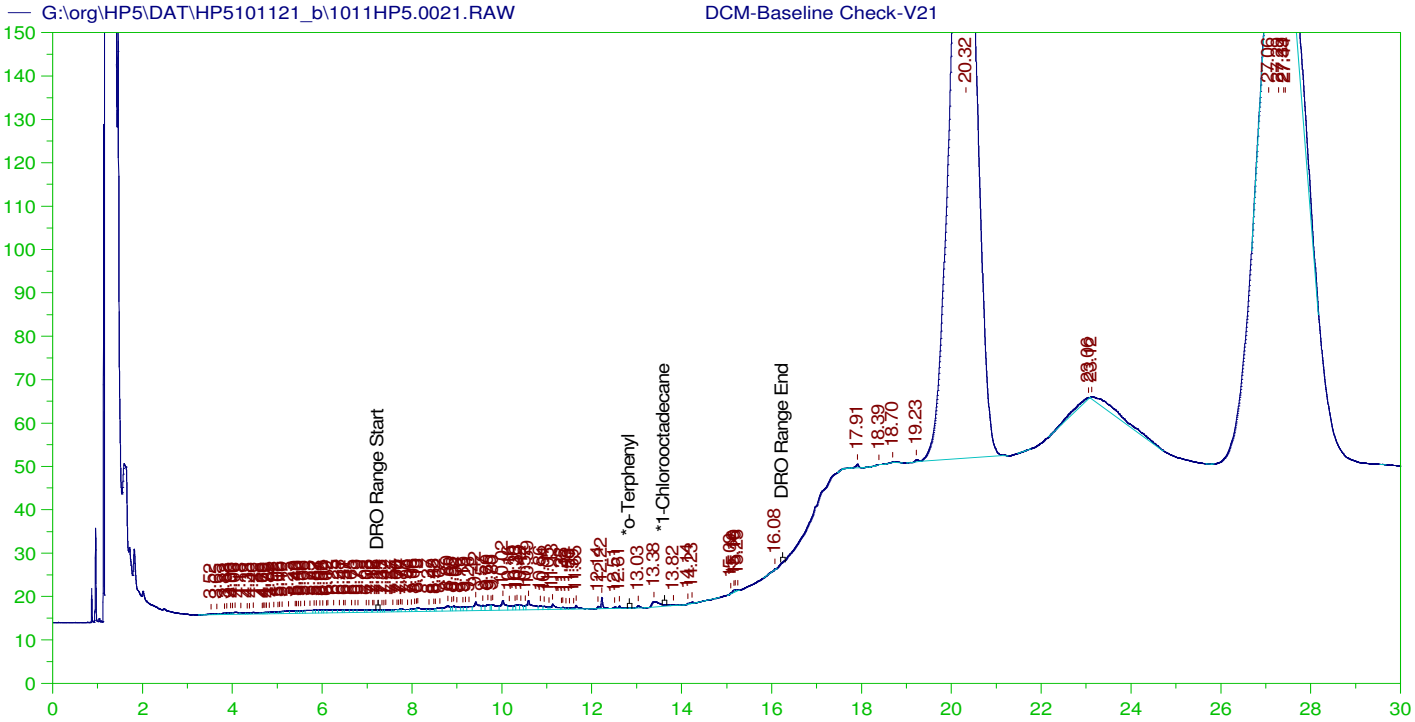
Sample Name: B21100806-003A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0020.RAW
Date & Time Acquired: 10/12/2021 12:36:47 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.793 | .19 | .002 | 1.29 | - |
| *1-Chlorooctadecane | 13.611 | .19 | .004 | 1.91 | - |

DRO Area:1.688078E+07 DRO Amount: 0.5457703
TEH Area:3.333578E+07 TEH Amount: 1.077775

G:\org\HP5\dat\HP5101121_b\Review\020_B21100806-003A_DR_8015-HR-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V21
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0021.RAW
Date & Time Acquired: 10/12/2021 1:19:39 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

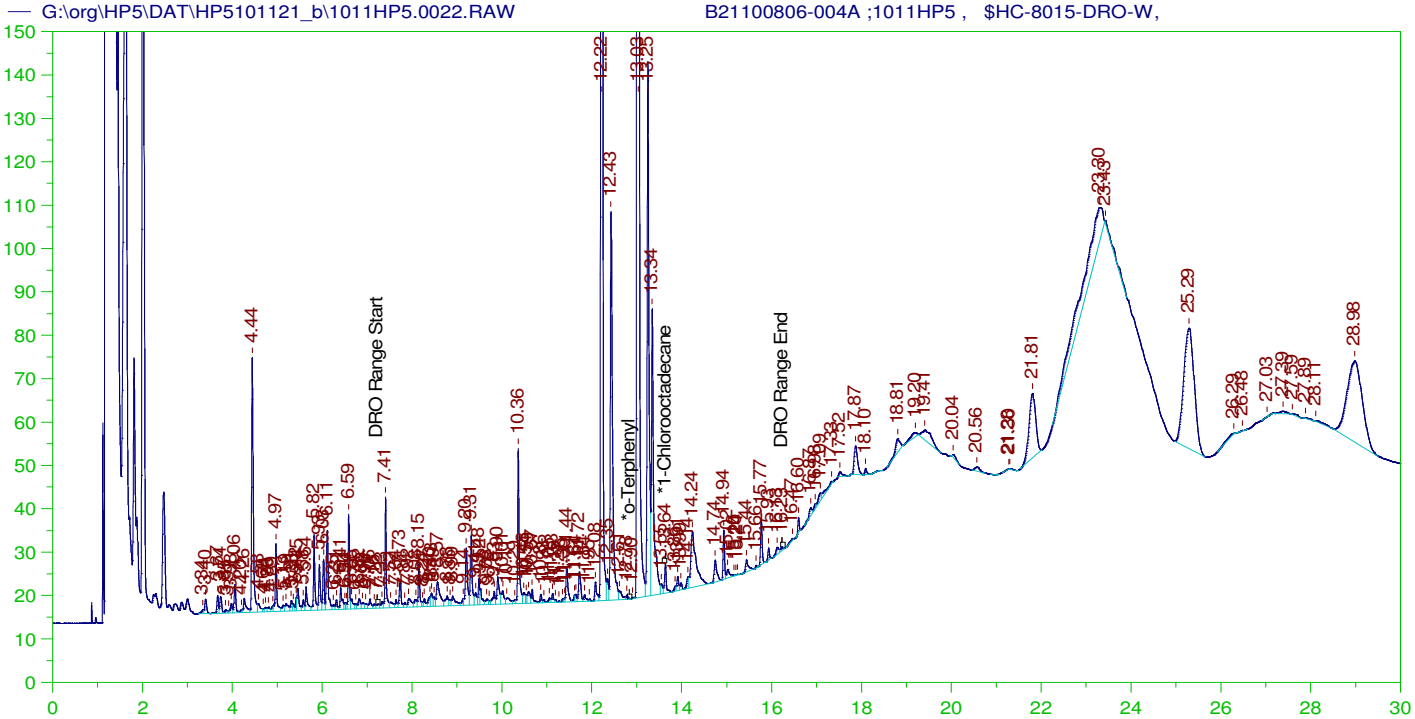
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.601 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.601 | 200. | . | . | - |

DRO Area:259267.8 DRO Amount: 8.801469
TEH Area:7589954 TEH Amount: 257.6592

**ERH1793 (RHM05)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0022.RAW B21100806-004A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

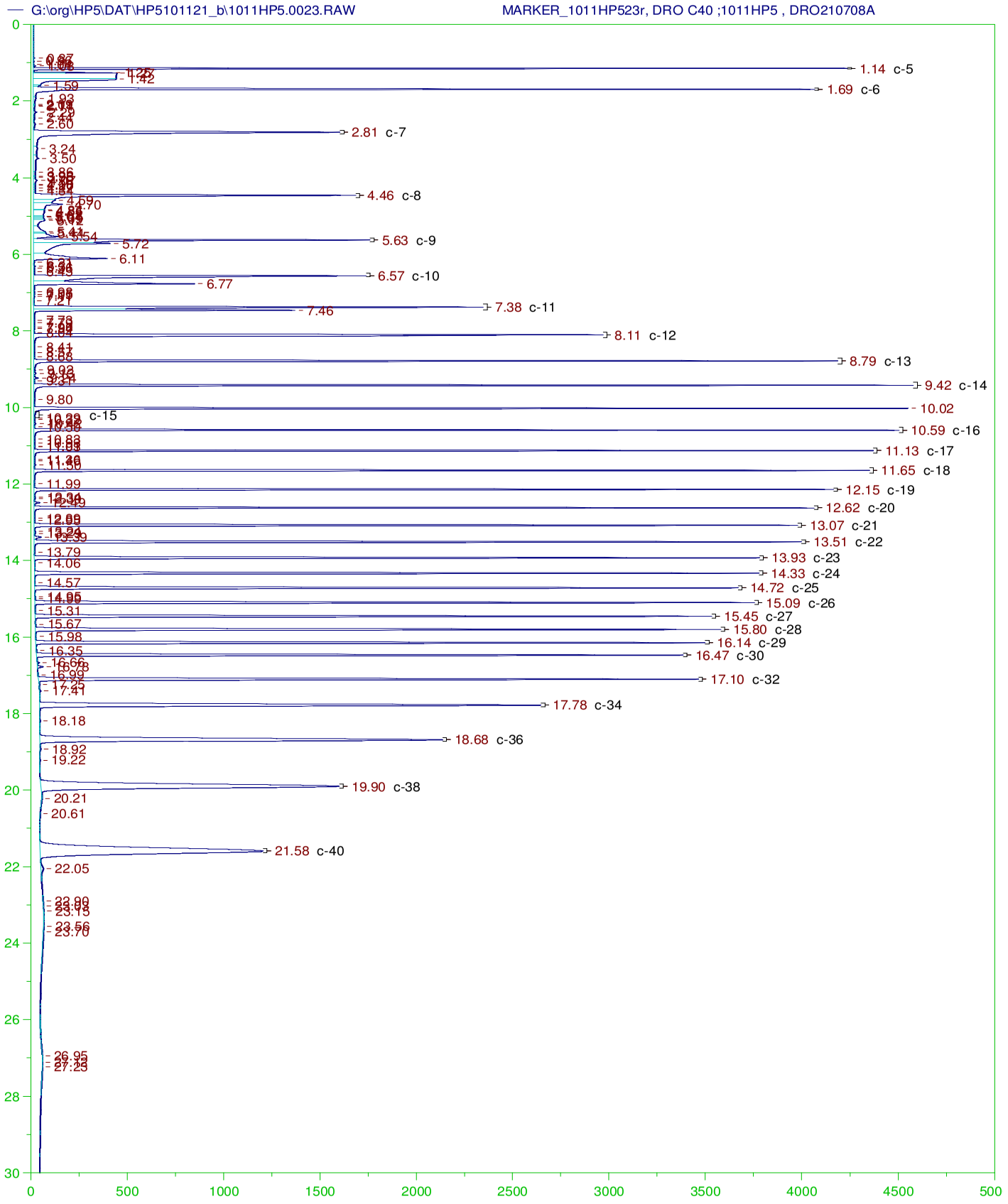
Sample Name: B21100806-004A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0022.RAW
Date & Time Acquired: 10/12/2021 2:02:21 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 28.979 | .19 | . | . - |
| *1-Chlorooctadecane | 13.636 | .19 | .001 | .29 - |

DRO Area:9756982 DRO Amount: 0.3154516
TEH Area:1.195954E+07 TEH Amount: 0.3866623

G:\org\HP5\dat\HP5101121_b\Review\022_B21100806-004A_DR_8015-HR-LEXP.xls


G:\org\HP5\DAT\HP5101121_b\1011HP5.0023.RAW
MARKER_1011HP523r, DRO C40 ;1011HP5 , DRO210708A
1.14 c-5
1.69 c-6
2.81 c-7
4.46 c-8
5.63 c-9
6.57 c-10
7.38 c-11
8.11 c-12
8.79 c-13
9.42 c-14
10.02
10.59 c-16
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.09 c-26
15.45 c-27
15.80 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
19.90 c-38
21.58 c-40
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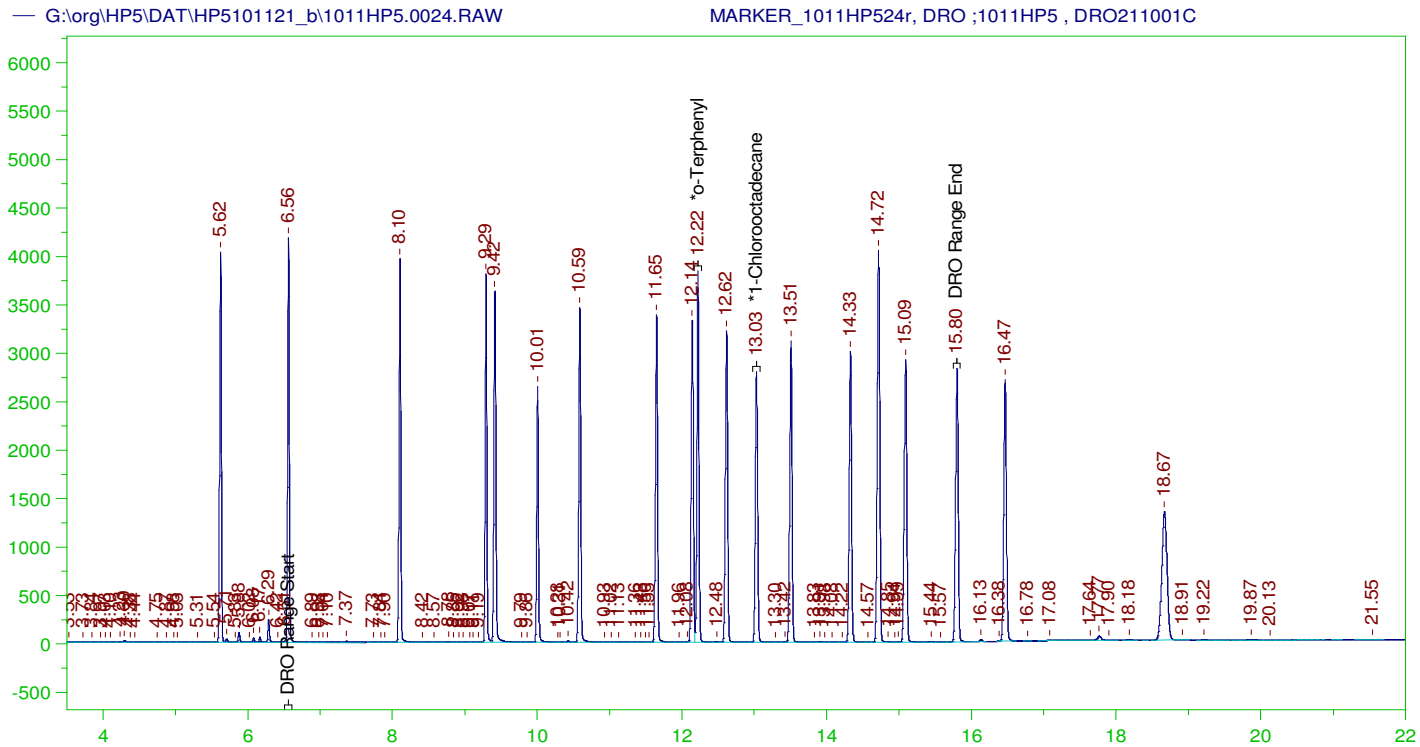



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

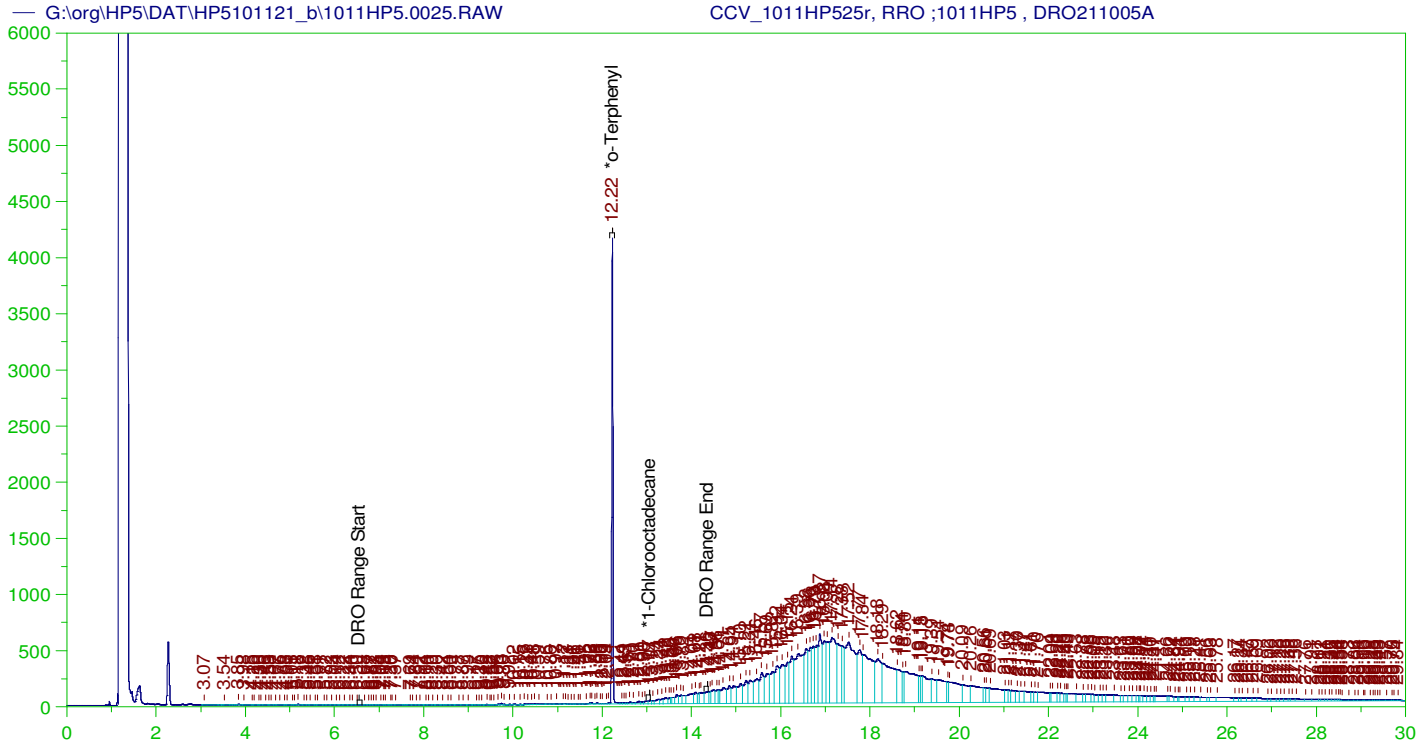
Sample Name: MARKER_1011HP524r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0024.RAW
Date & Time Acquired: 10/12/2021 3:27:56 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .2 | .21 | 104.9 | - |
| *1-Chlorooctadecane | 13.03 | .2 | .17 | 84.85 | - |

DRO Area:9.591645E+07 DRO Amount: 3.256114
TEH Area:1.174432E+08 TEH Amount: 3.986891

G:\org\HP5\dat\HP5101121_b\Review\024_MARKER_1011HP524r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP525r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0025.RAW
Date & Time Acquired: 10/12/2021 4:10:46 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 227.617 | 113.81 | - |
| *1-Chlorooctadecane | 13.067 | 200. | 3.908 | 1.95 | - |

DRO Area:6540064 DRO Amount: 229.1349
TEH (Oil Range)Area:1.424385E+08 TEH (Oil Range)Amount: 4990.416

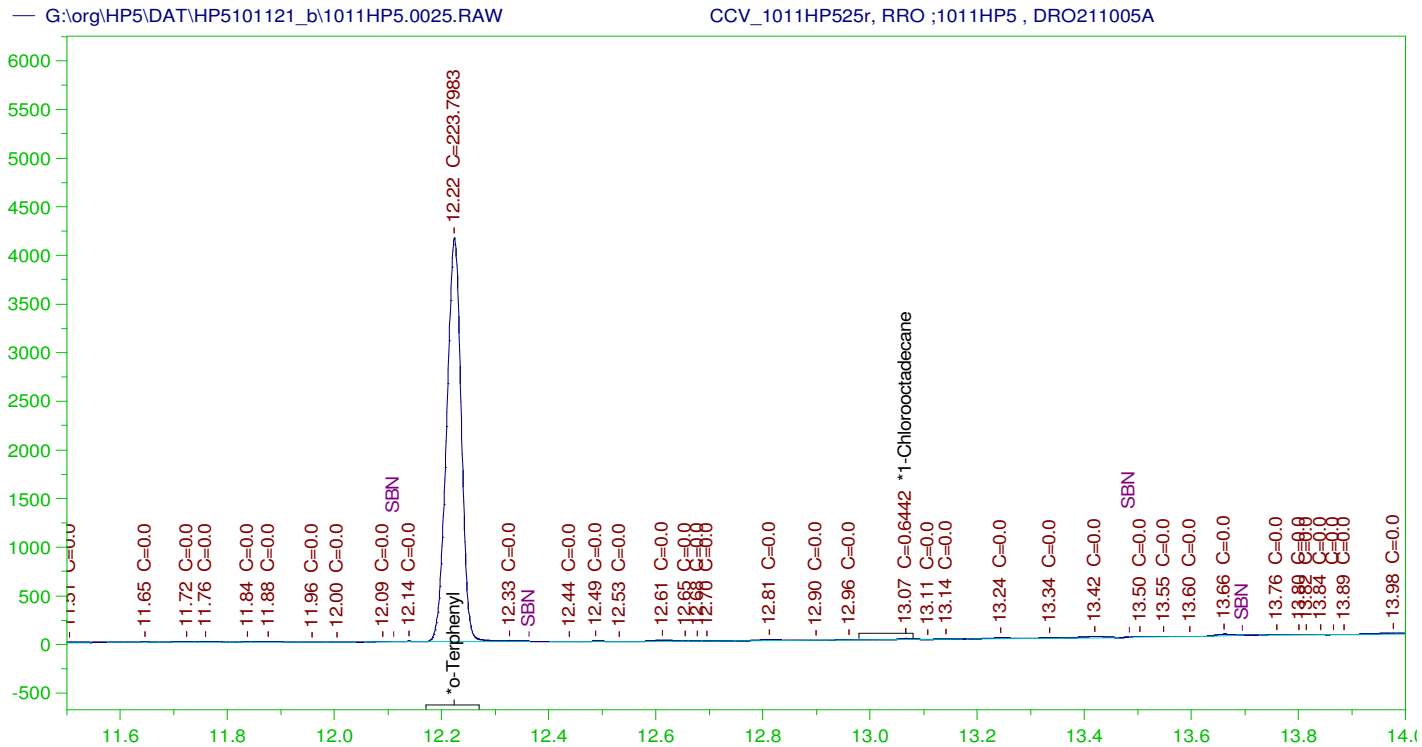
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0025.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4990.42 | 99.81 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 227.617 | 113.81 | 85-115 |
| *1-Chlorooctadecane | 13.067 | 200. | 3.908 | 1.95 | 85-115 |

AMN 10/19/2021

G:\org\HP5\dat\HP5101121_b\Review\025_CCV_1011HP525r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP525r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0025.RAW
Date & Time Acquired: 10/12/2021 4:10:46 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 223.798 | 111.9 | - |
| *1-Chlorooctadecane | 13.067 | 200. | .644 | .32 | - |

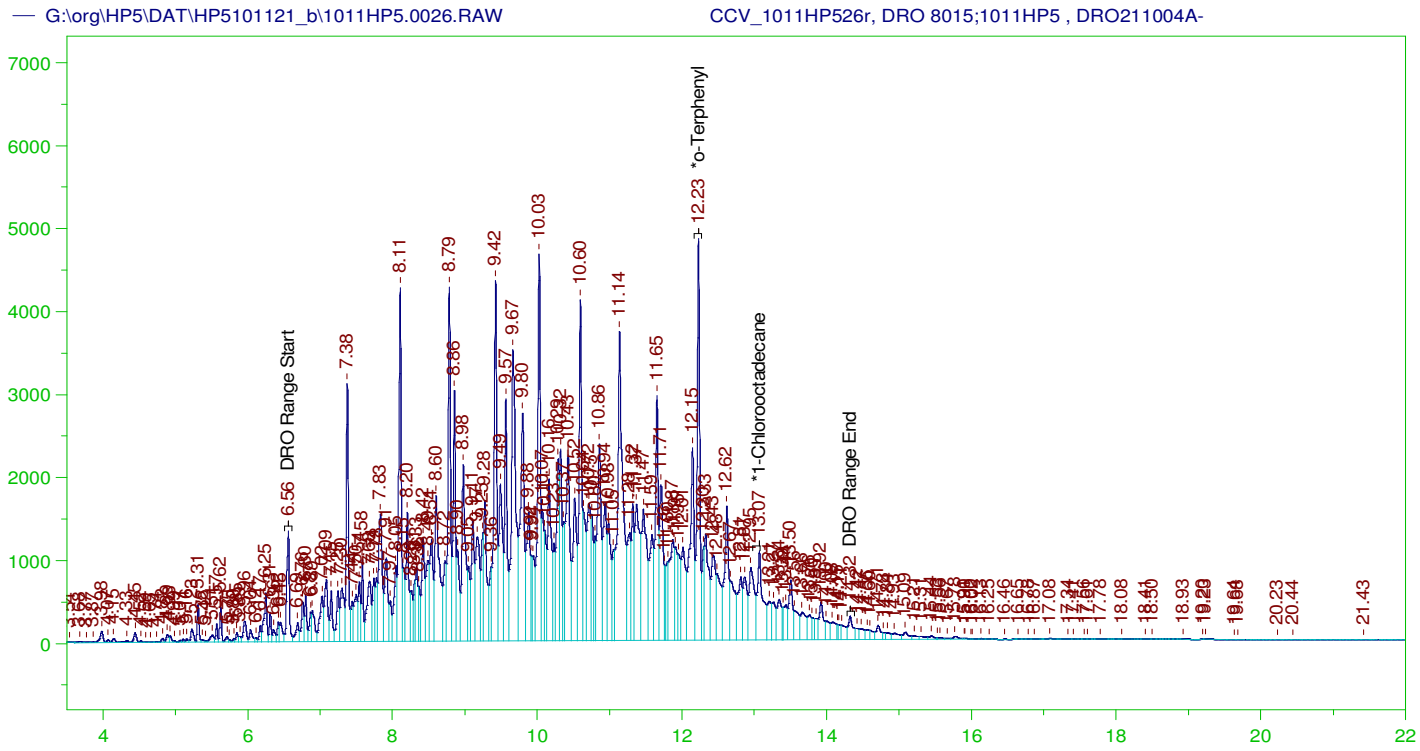
DRO Area:903145.6 DRO Amount: 31.64223
TEH Area:2143437 TEH Amount: 75.09656

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0025.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 75.1 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 223.798 | 111.9 | 85-115 |
| *1-Chlorooctadecane | 13.067 | 200. | .644 | .32 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\025_CCV_1011HP525r_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP526r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0026.RAW
Date & Time Acquired: 10/12/2021 4:53:35 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | 346.415 | 173.21 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 155.954 | 77.98 | - |

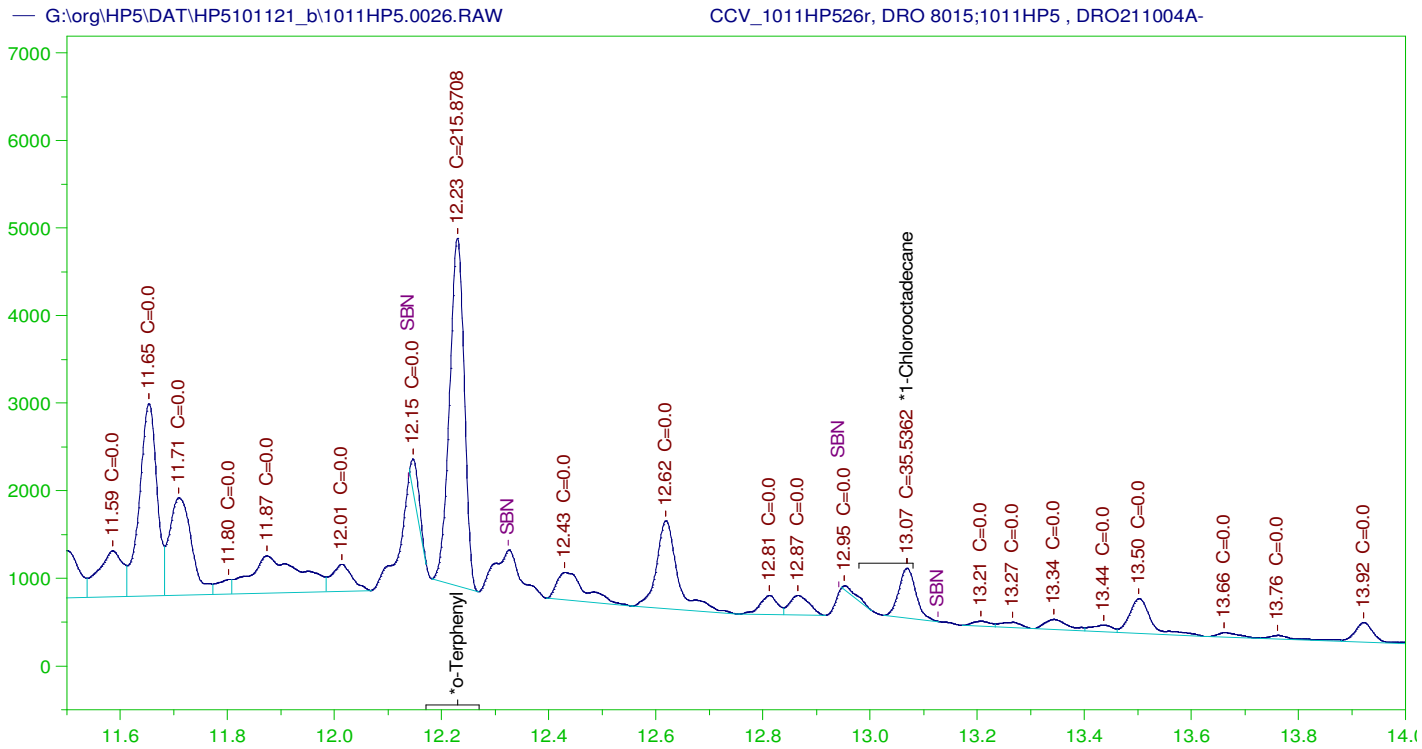
DRO Area:4.555412E+08 DRO Amount: 15464.44
TEH Area:4.719636E+08 TEH Amount: 16021.94

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0026.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16021.94 | 106.81 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | 346.415 | 173.21 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 155.954 | 77.98 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\026_CCV_1011HP526r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP526r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0026.RAW
Date & Time Acquired: 10/12/2021 4:53:35 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

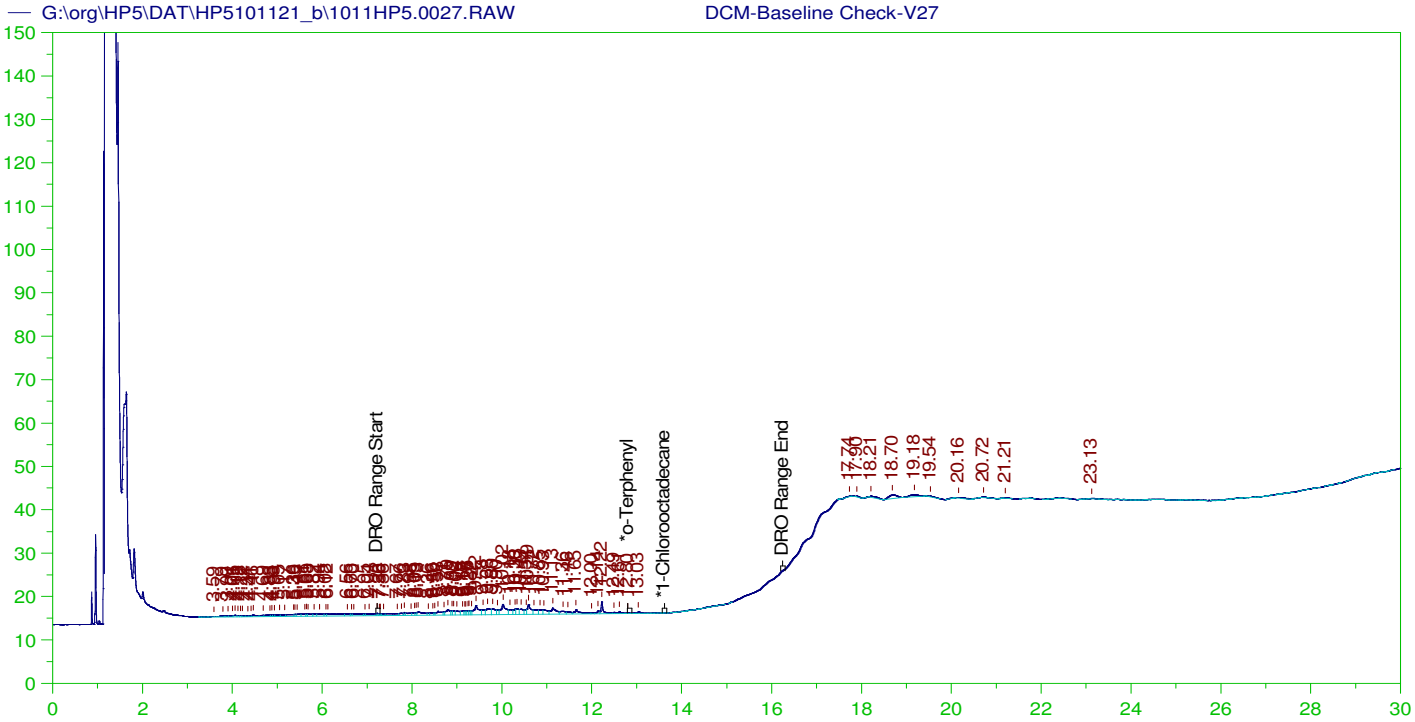
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | 215.871 | 107.94 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 35.536 | 17.77 | - |

DRO Area:2.534756E+08 DRO Amount: 8604.837
TEH Area:2.633399E+08 TEH Amount: 8939.707

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0026.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8939.71 | 59.6 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | 215.871 | 107.94 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 35.536 | 17.77 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V27
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0027.RAW
Date & Time Acquired: 10/12/2021 5:36:23 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

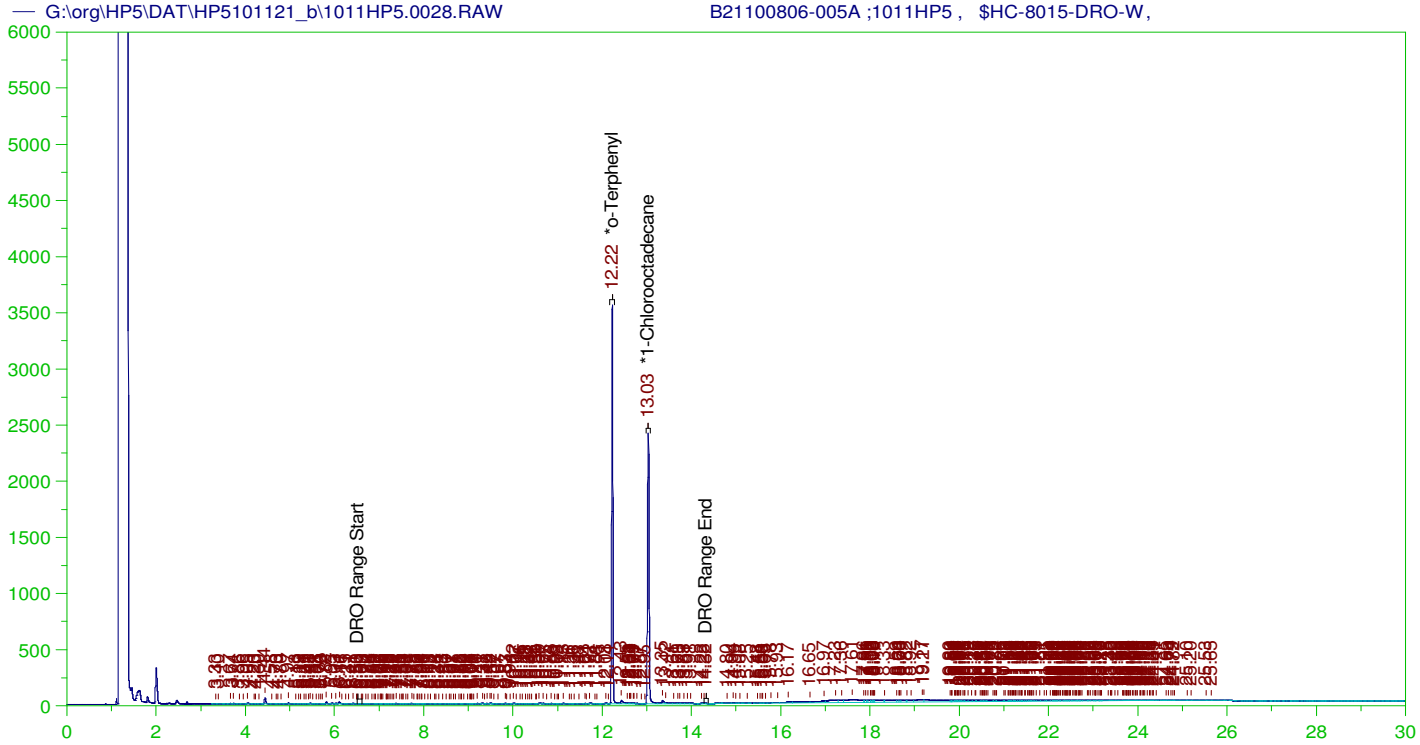
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.796 | 200. | .018 | .01 | - |
| *1-Chlorooctadecane | 29.83 | 200. | . | . | - |

DRO Area:251364.6 DRO Amount: 8.533175
TEH Area:370198.3 TEH Amount: 12.56727

G:\org\HP5\dat\HP5101121_b\Review\027_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

**ERH1796 (RHMW2254-01)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW B21100806-005A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-005A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW
Date & Time Acquired: 10/12/2021 6:19:12 AM
Method File: G:\Org\HP5\Methods\D3_8015-101128-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

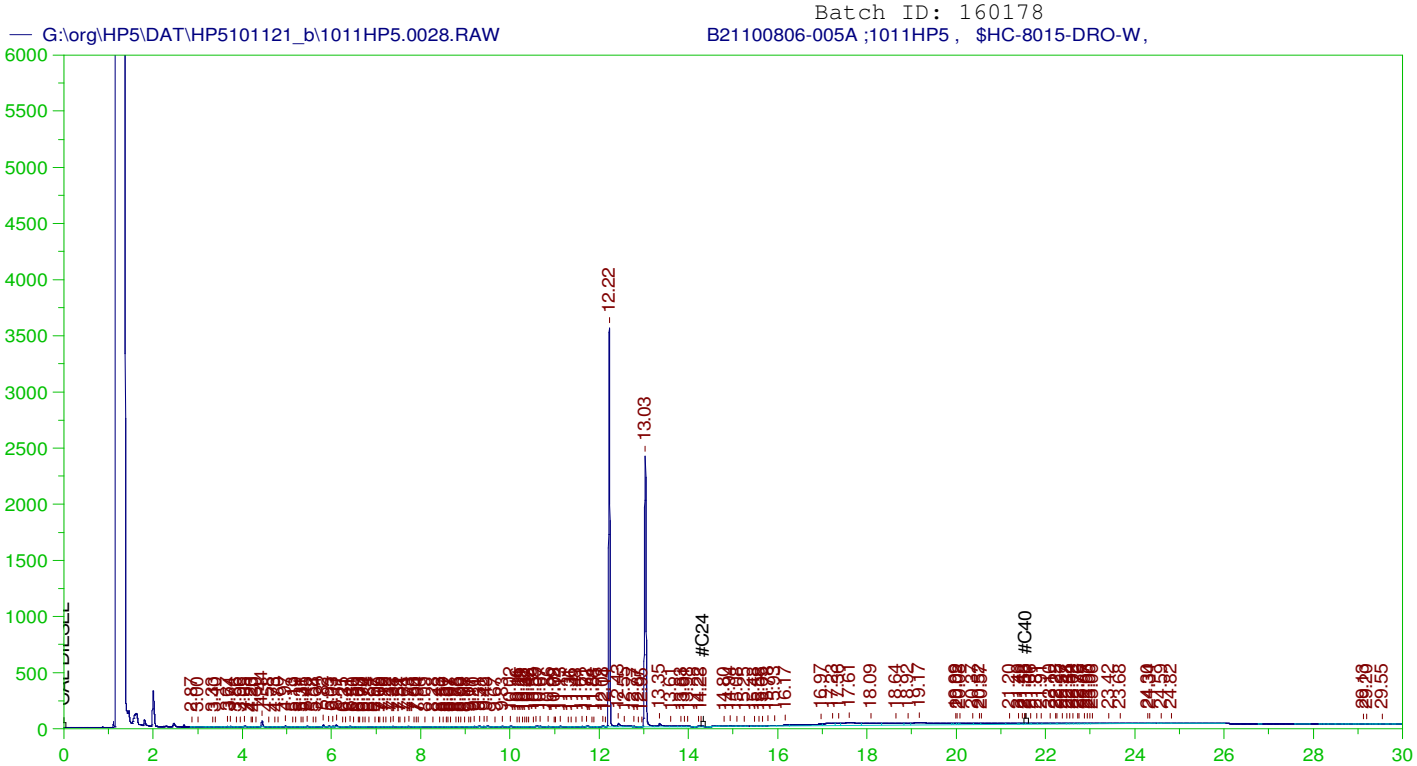
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .189 | .185 | 98.07 | - |
| *1-Chlorooctadecane | 13.03 | .189 | .145 | 76.93 | - |

DRO Area:772529.4 DRO Amount: 2.474091E-02
TEH Area:7186767 TEH Amount: 0.2301624

G:\org\HP5\dat\HP5101121_b\Review\028_B21100806-005A_D3_8015-101128-C24-HS-L%.xls

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-005A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW
Date & Time Acquired: 10/12/2021 6:19:12 AM
Method File: G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

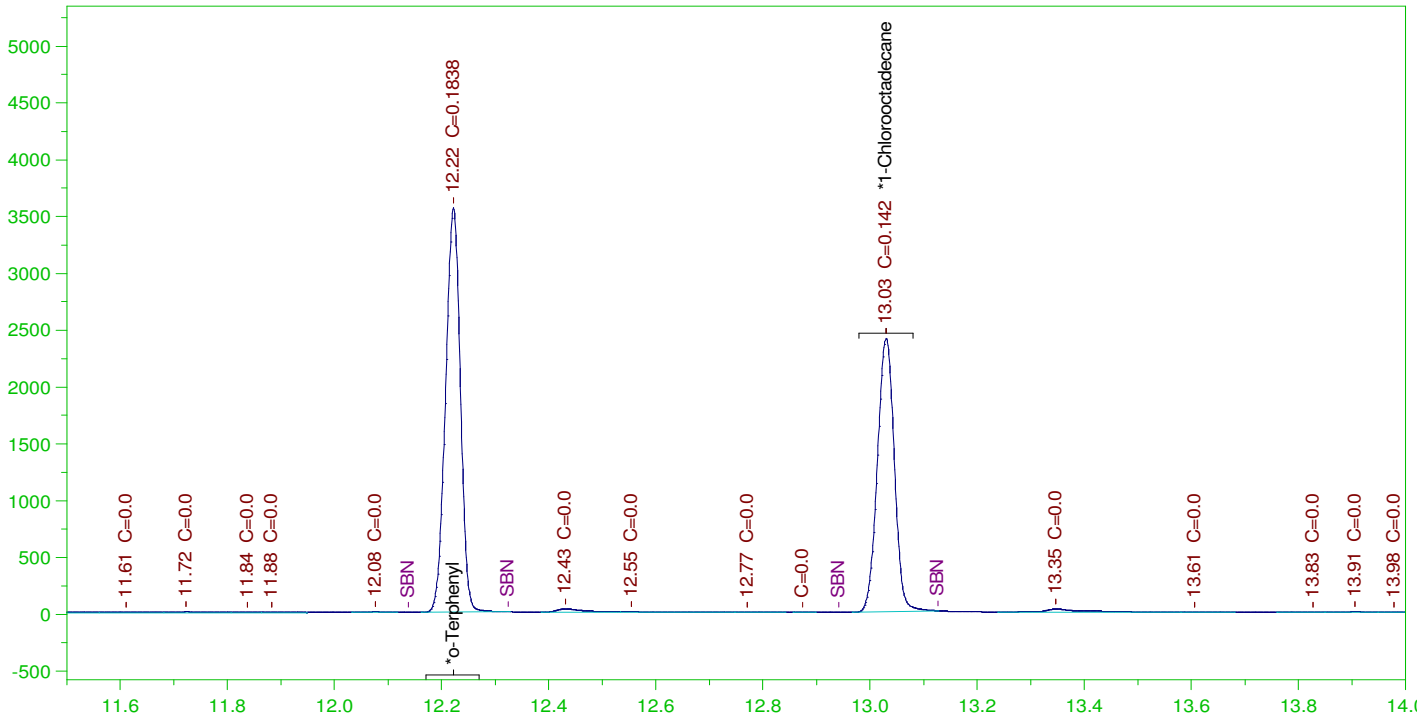
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:5185679 RRO AMOUNT: 0.1713993

**ERH1796 (RHMW2254-01)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW B21100806-005A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

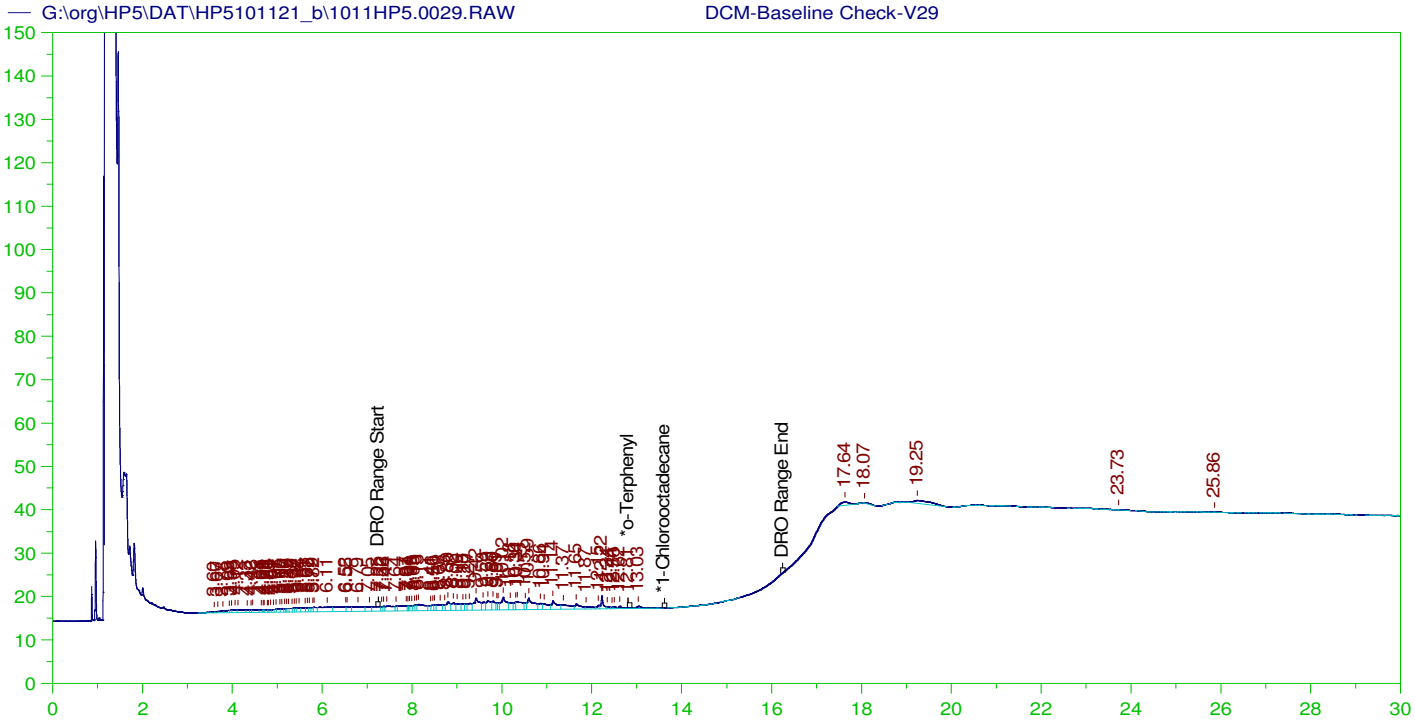
Sample Name: B21100806-005A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW
Date & Time Acquired: 10/12/2021 6:19:12 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .189 | .184 | 97.41 | - |
| *1-Chlorooctadecane | 13.03 | .189 | .142 | 75.28 | - |

DRO Area:2120683 DRO Amount: 6.791667E-02
TEH Area:5626251 TEH Amount: 0.1801855

G:\org\HP5\dat\HP5101121_b\Review\028_B21100806-005A_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V29
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0029.RAW
Date & Time Acquired: 10/12/2021 7:01:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

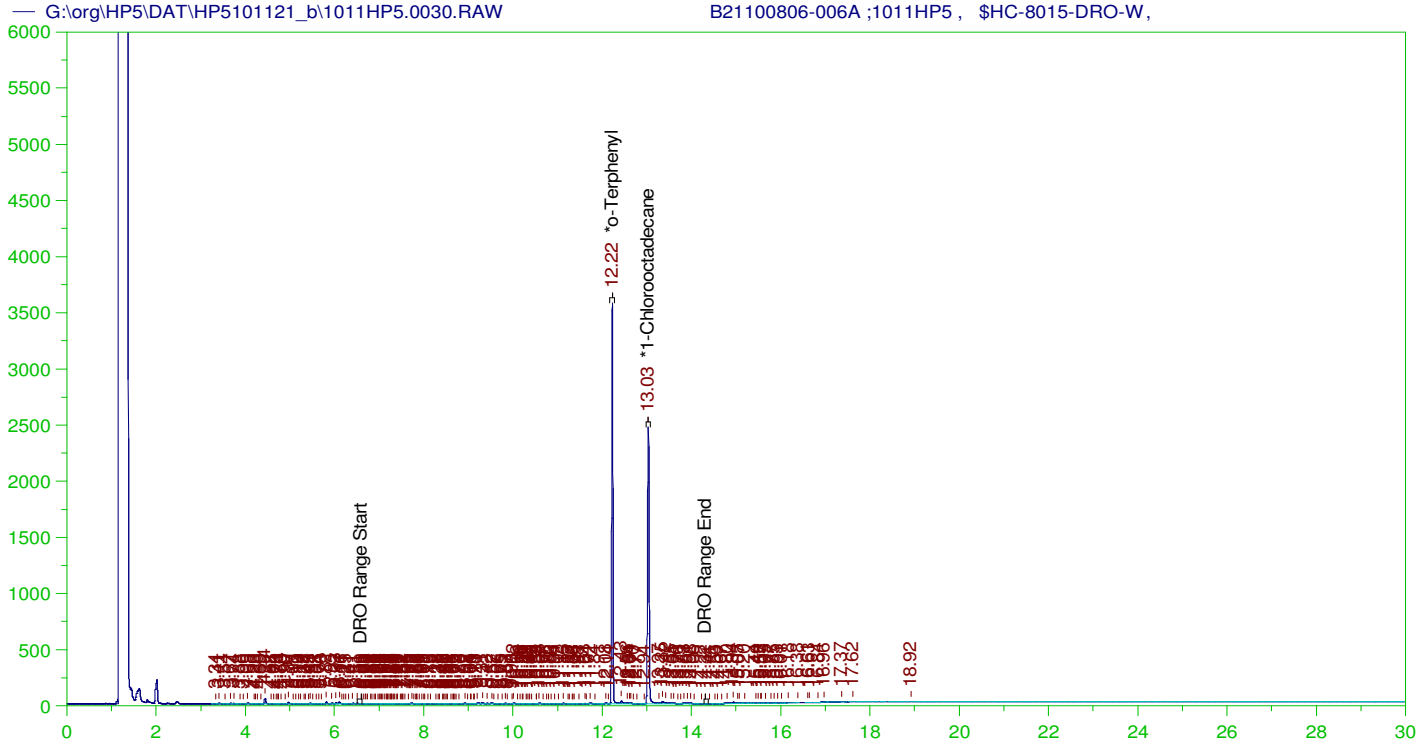
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.808 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.975 | 200. | . | . | - |

DRO Area:407108.8 DRO Amount: 13.82029
TEH Area:608946.2 TEH Amount: 20.67214

G:\org\HP5\dat\HP5101121_b\Review\029_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

**ERH1799 (RHSF)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0030.RAW B21100806-006A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-006A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0030.RAW
Date & Time Acquired: 10/12/2021 7:44:16 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

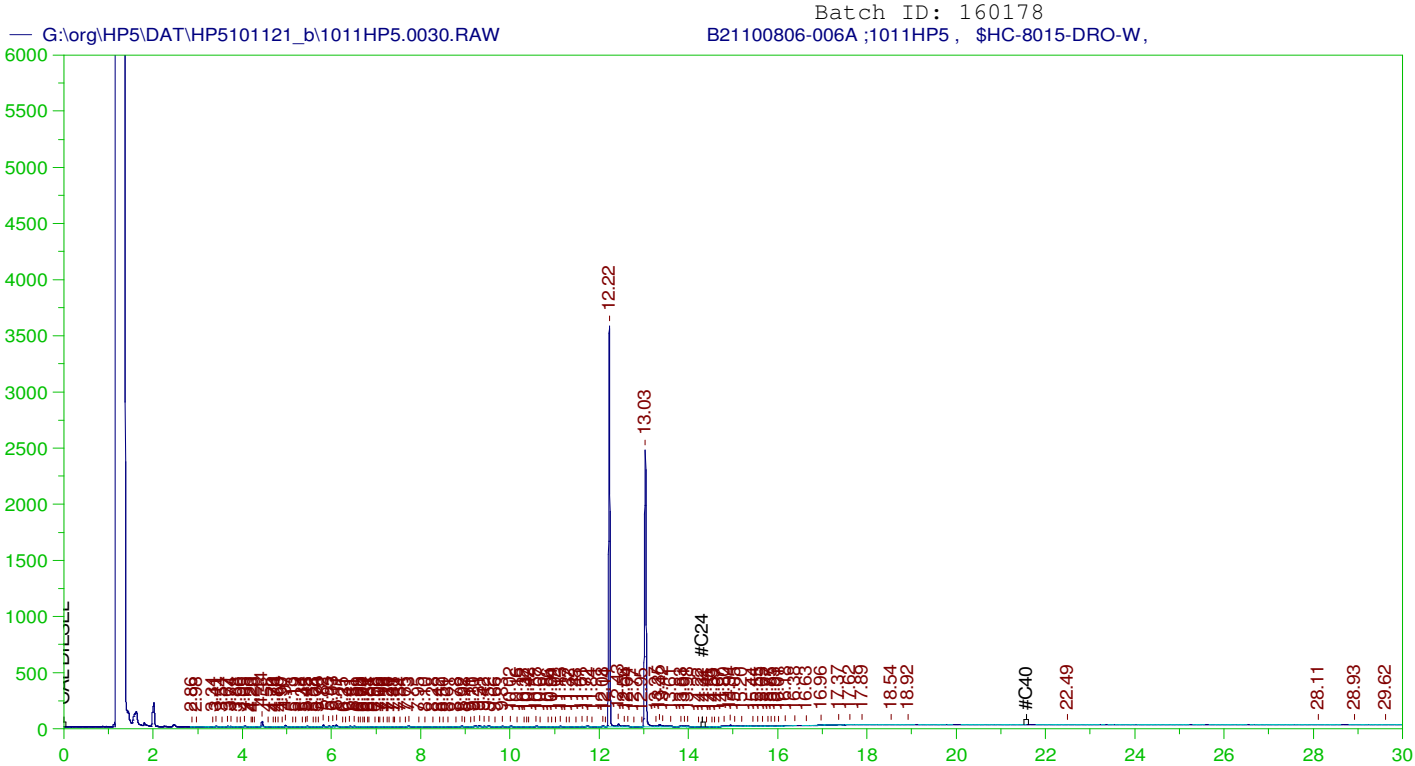
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .192 | .19 | 98.56 | - |
| *1-Chlorooctadecane | 13.031 | .192 | .15 | 77.82 | - |

DRO Area:727645.1 DRO Amount: 0.0237516
TEH Area:1354752 TEH Amount: 4.422145E-02

G:\org\HP5\dat\HP5101121_b\Review\030_B21100806-006A_DR_8015-C24-HS-L%.xls

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-006A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0030.RAW
Date & Time Acquired: 10/12/2021 7:44:16 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

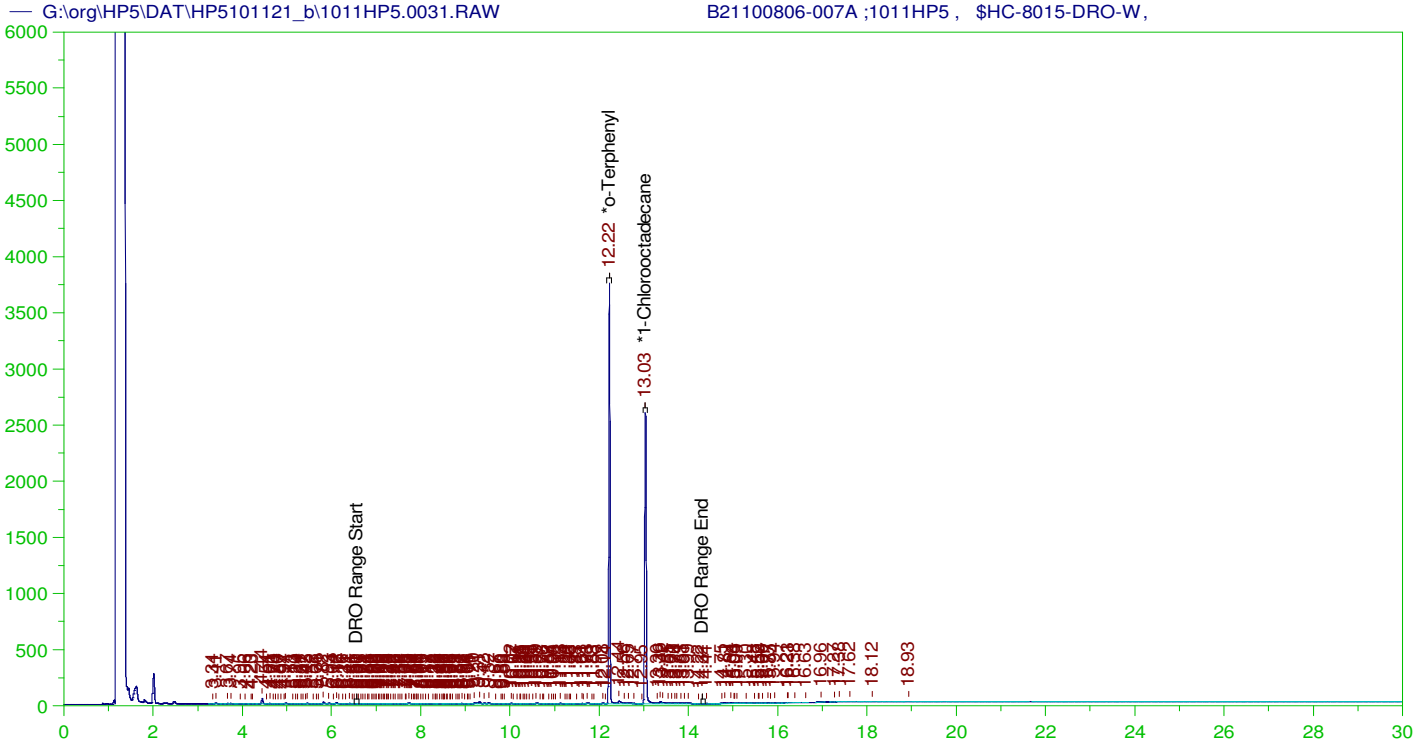
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:174734 RRO AMOUNT: 5.886449E-03

G:\org\HP5\dat\HP5101121_b\Review\030_B21100806-006A_DR_OIL-S-AJ-L%.xls

**ERH1801 (RHSF)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0031.RAW B21100806-007A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-007A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0031.RAW
Date & Time Acquired: 10/12/2021 8:27:14 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

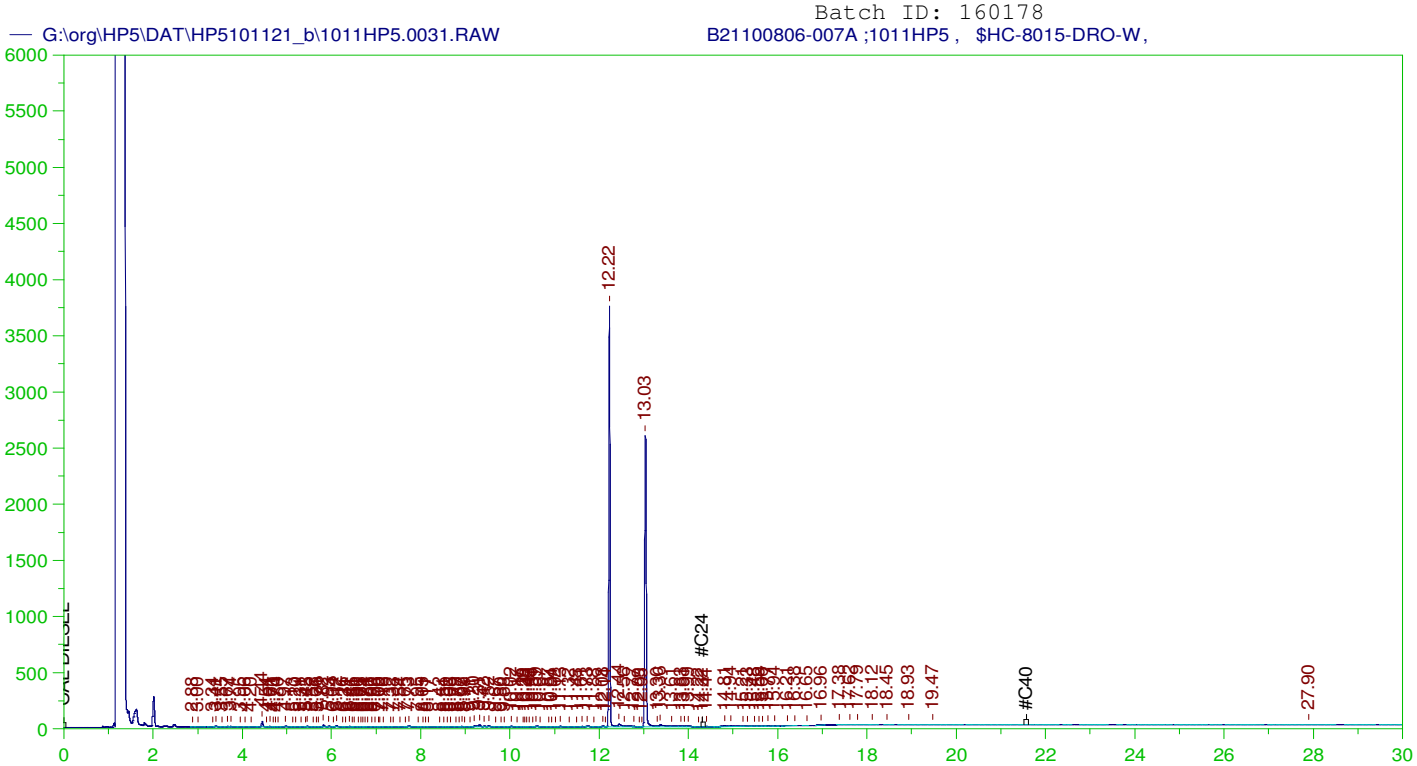
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .192 | .197 | 102.4 | - |
| *1-Chlorooctadecane | 13.034 | .192 | .157 | 81.7 | - |

DRO Area:773495.7 DRO Amount: 2.524824E-02
TEH Area:1348851 TEH Amount: 4.402883E-02

G:\org\HP5\dat\HP5101121_b\Review\031_B21100806-007A_DR_8015-C24-HS-L%.xls

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-007A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0031.RAW
Date & Time Acquired: 10/12/2021 8:27:14 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

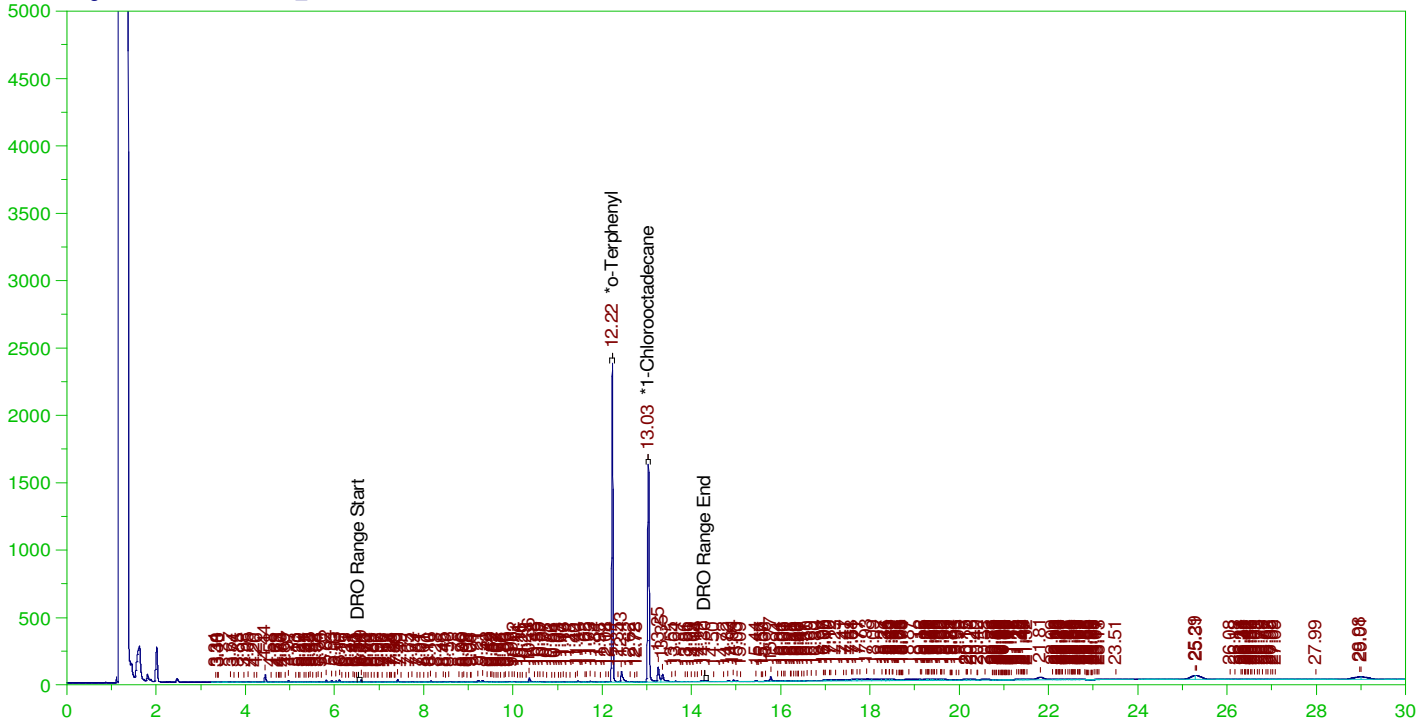
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:177677.9 RRO AMOUNT: 5.985624E-03

G:\org\HP5\dat\HP5101121_b\Review\031_B21100806-007A_DR_OIL-S-AJ-L%.xls

**ERH1793 (RHMW05)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0032.RAW B21100806-004A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-004A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0032.RAW
Date & Time Acquired: 10/12/2021 9:09:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-101132-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

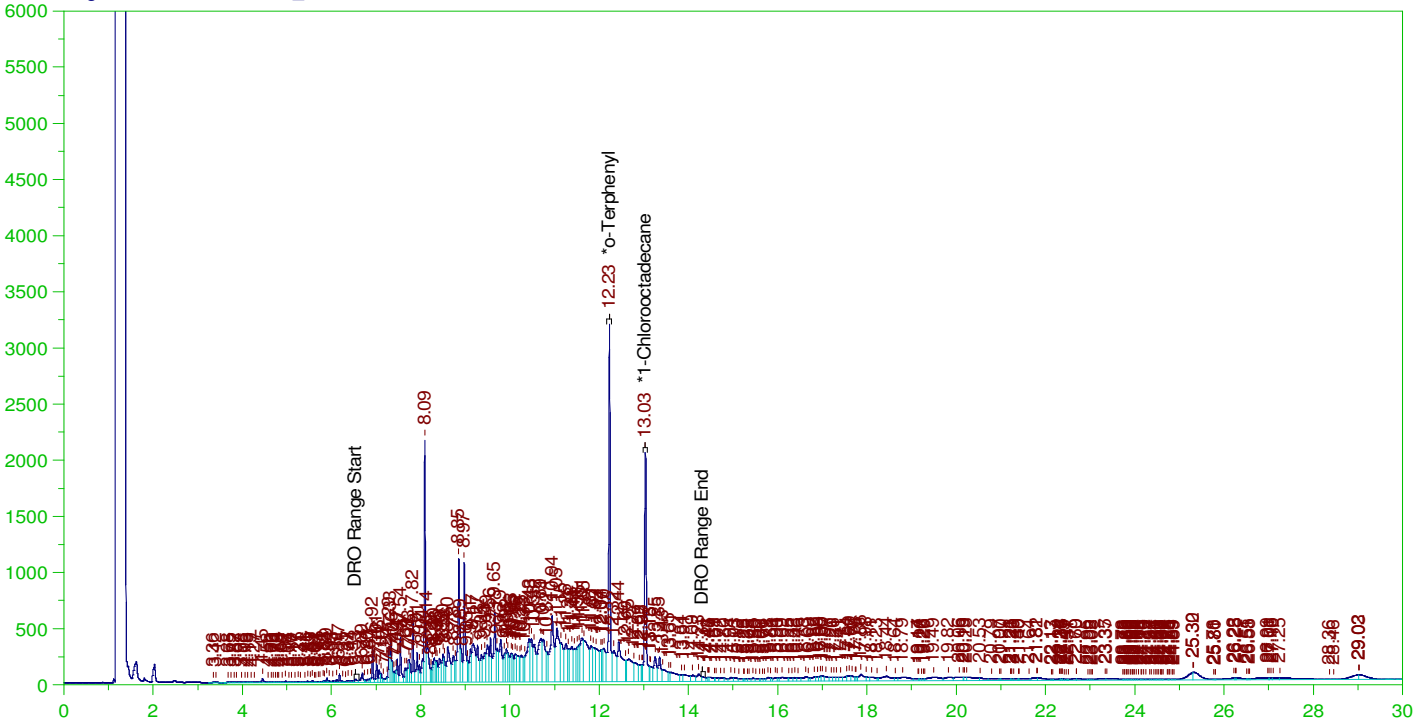
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | .19 | .123 | 64.45 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .097 | 50.84 | - |

DRO Area:1727432 DRO Amount: 5.584936E-02
TEH Area:6352013 TEH Amount: 0.2053661

G:\org\HP5\dat\HP5101121_b\Review\032_B21100806-004A_DR_8015-101132-C24-HS-L%.xls

**ERH1787 (RHMW02)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW
Date & Time Acquired: 10/12/2021 9:52:36 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.226 | .19 | .209 | 110.07 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .143 | 75.36 | - |

DRO Area:9.782638E+07 DRO Amount: 3.147821
TEH Area:1.165166E+08 TEH Amount: 3.749227

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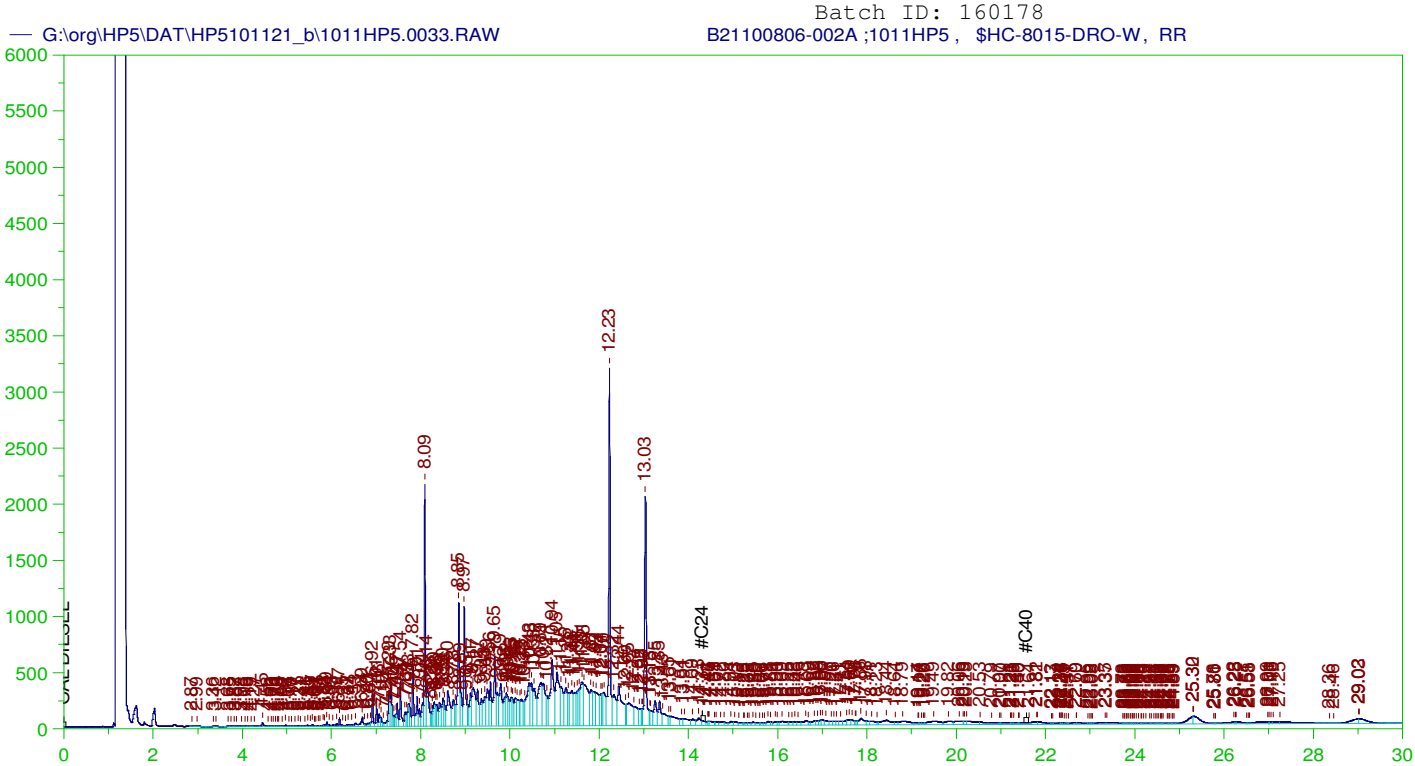
Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW
Date & Time Acquired: 10/12/2021 9:52:36 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:1.151319E+07 RRO AMOUNT: 0.3823423

**ERH1787 (RHMW02)** Batch ID: 160178

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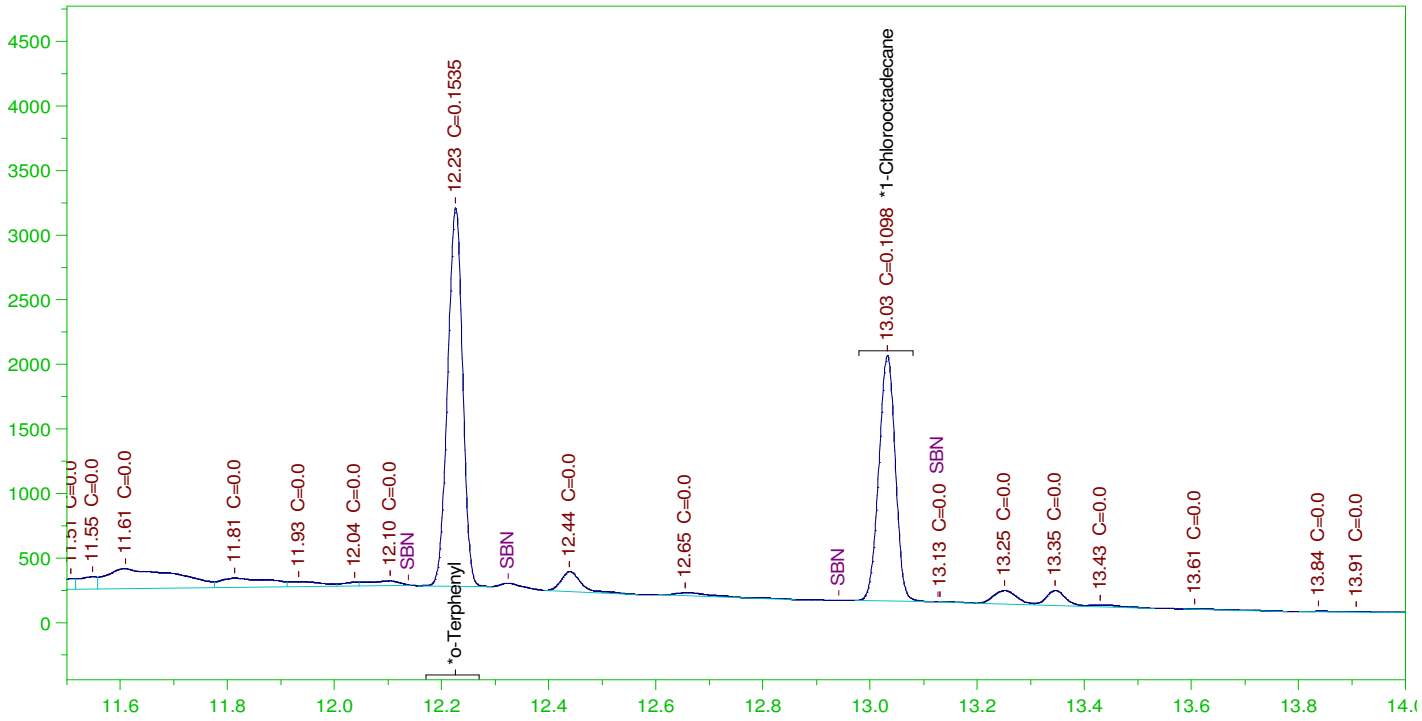



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

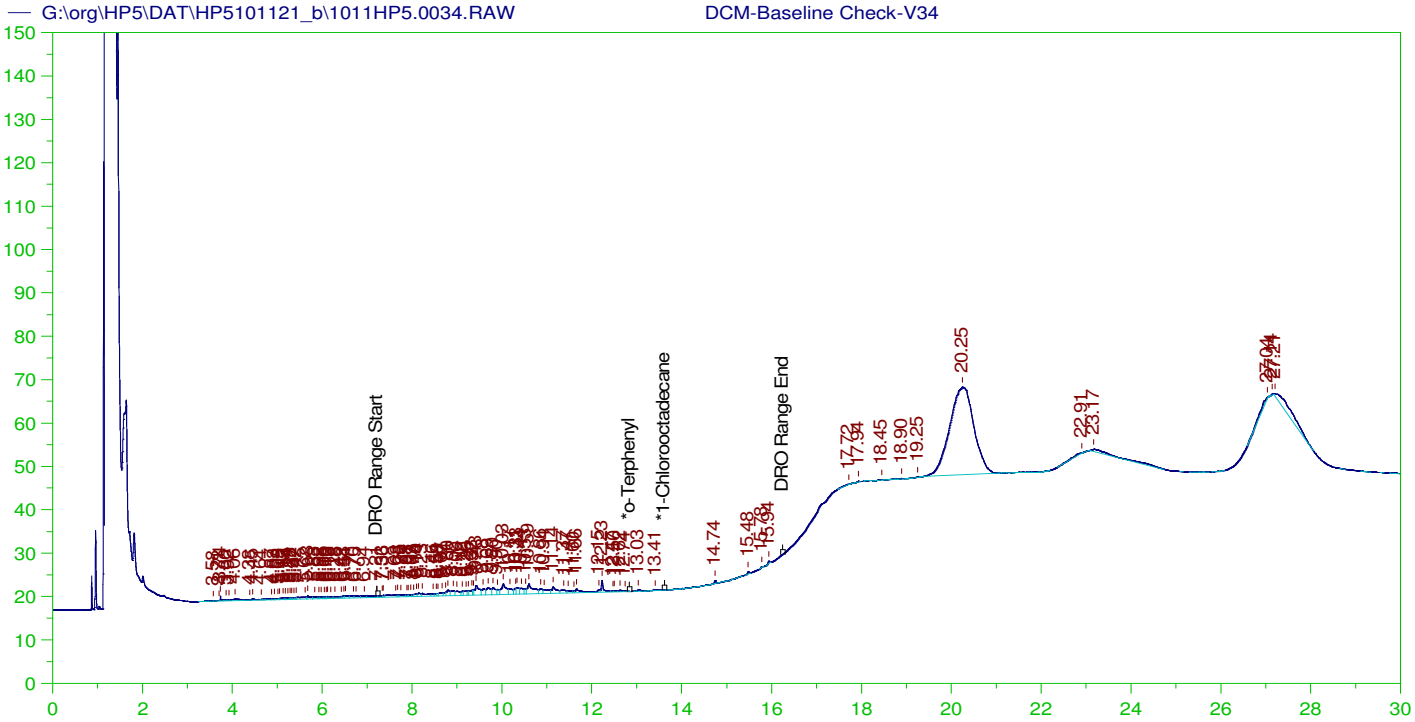
Sample Name: B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW
Date & Time Acquired: 10/12/2021 9:52:36 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.226 | .19 | .154 | 80.98 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .11 | 57.93 | - |

DRO Area:4.190378E+07 DRO Amount: 1.348365
TEH Area:4.283257E+07 TEH Amount: 1.378251

G:\org\HP5\dat\HP5101121_b\Review\033_B21100806-002A_DS_8015-HS-L#.xls



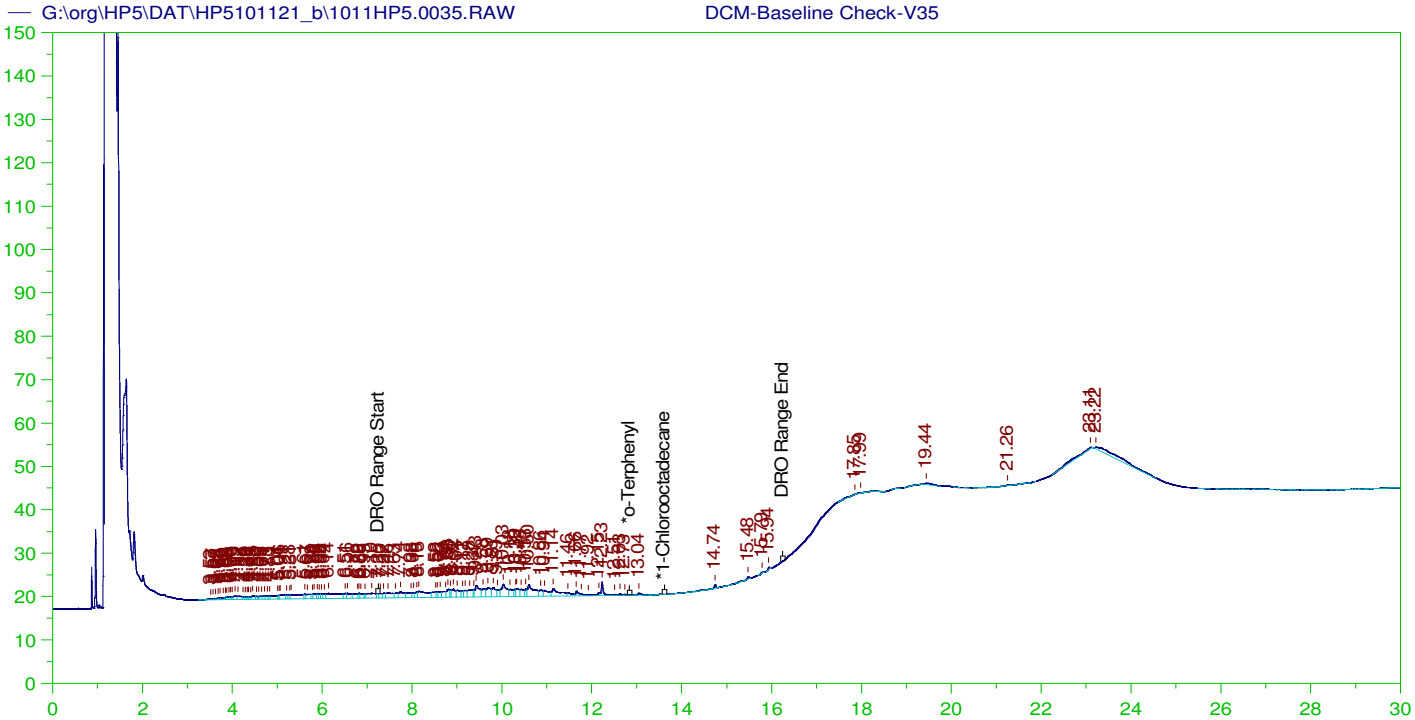

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V34
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0034.RAW
Date & Time Acquired: 10/12/2021 10:35:19 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.837 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.837 | 200. | . | . | - |

DRO Area:280227.5 DRO Amount: 9.512997
TEH Area:1225165 TEH Amount: 41.59118




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V35
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0035.RAW
Date & Time Acquired: 10/12/2021 11:17:53 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

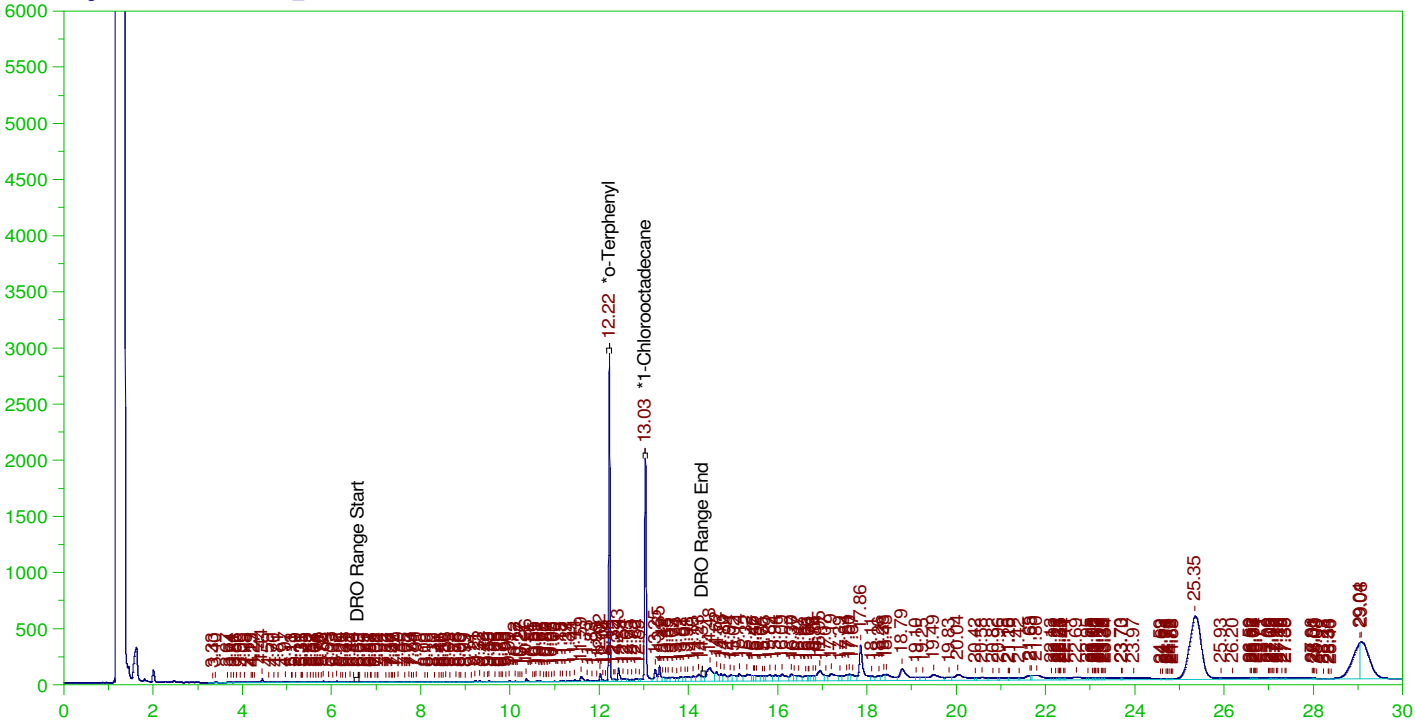
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.971 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.971 | 200. | . | . | - |

DRO Area:399978.5 DRO Amount: 13.57823
TEH Area:647826.3 TEH Amount: 21.99202

G:\org\HP5\dat\HP5101121_b\Review\035_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

**ERH1790 (RHMW03)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW
Date & Time Acquired: 10/12/2021 12:00:27 PM
Method File: G:\Org\HP5\Methods\D3_8015-101136-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

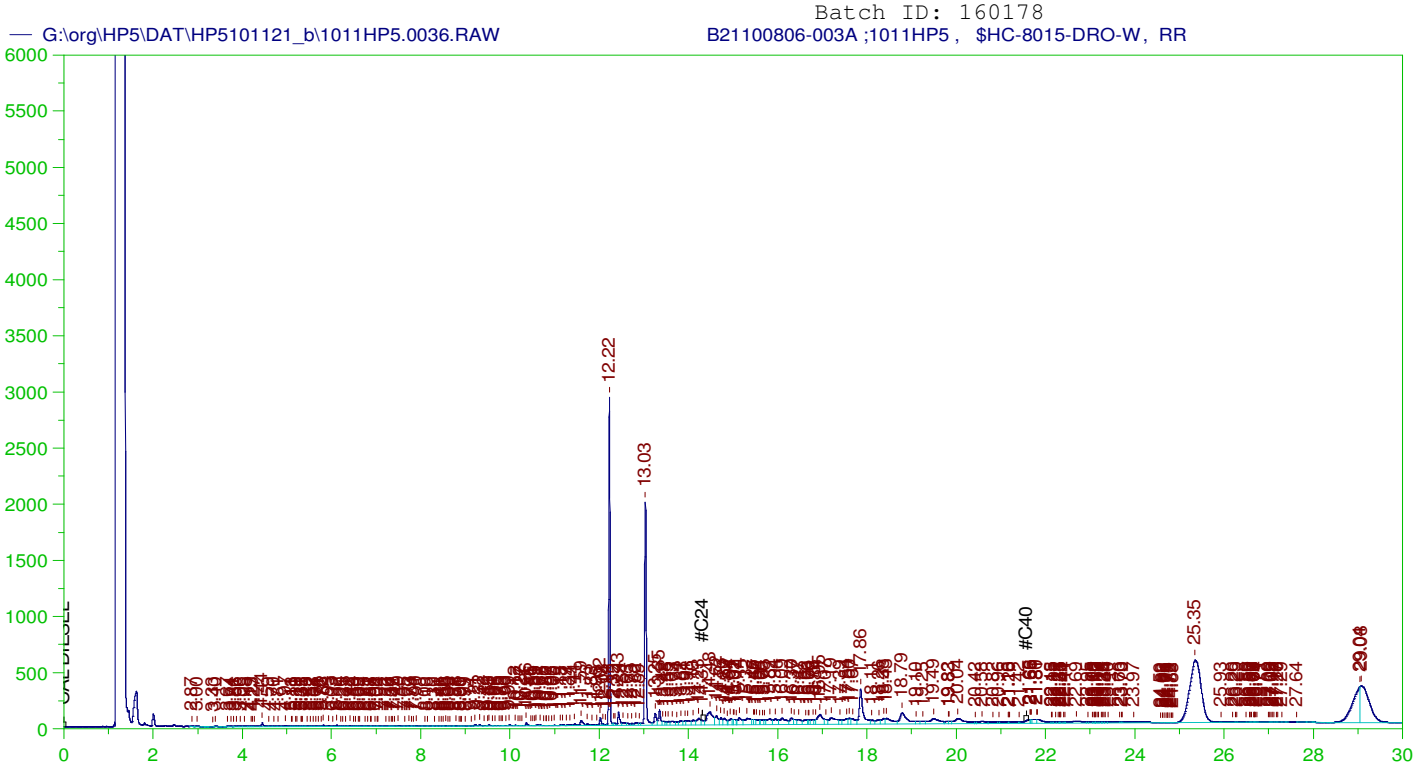
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .19 | .155 | 81.46 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .126 | 66.22 | - |

DRO Area:5633685 DRO Amount: 0.1821419
TEH Area:4.957473E+07 TEH Amount: 1.602794

G:\org\HP5\dat\HP5101121_b\Review\036_B21100806-003A_D3_8015-101136-C24-HS-L%.xls

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW
Date & Time Acquired: 10/12/2021 12:00:27 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

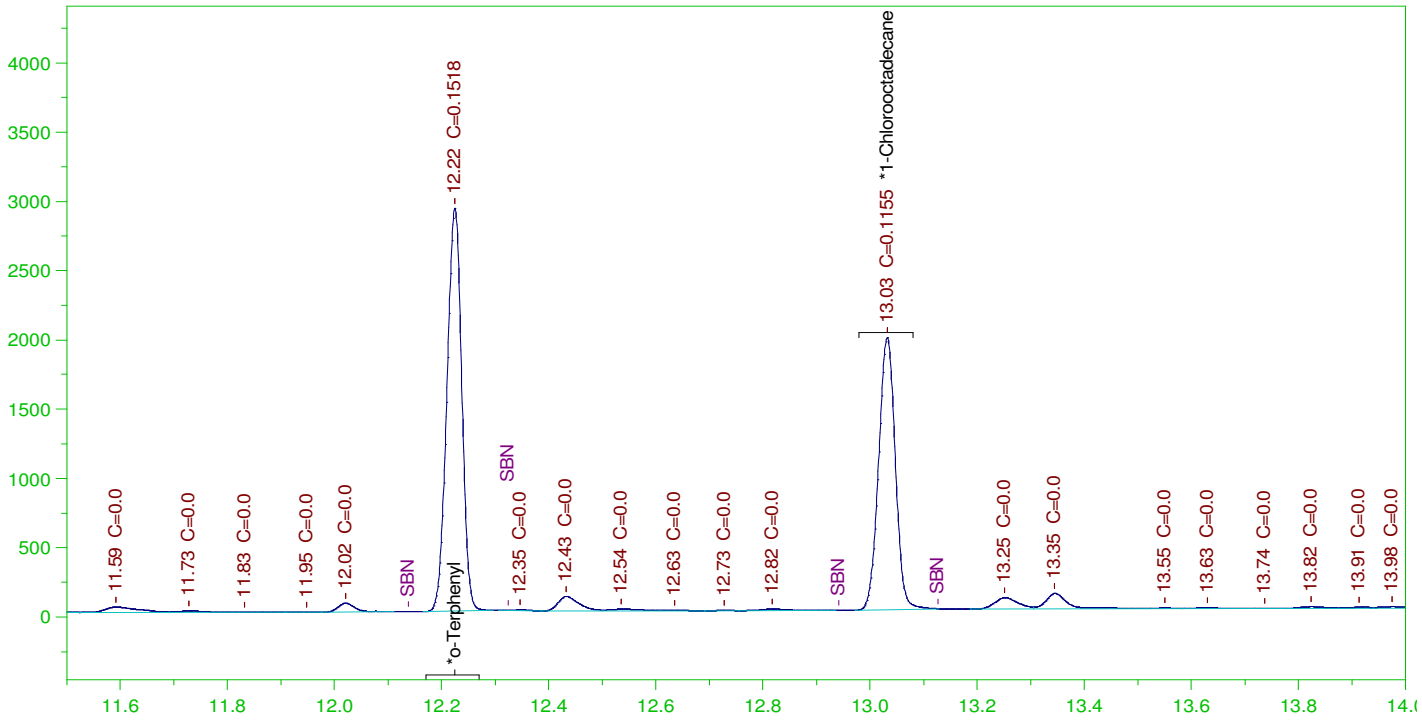
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:1.719216E+07 RRO AMOUNT: 0.5736546

G:\org\HP5\dat\HP5101121_b\Review\036_B21100806-003A_D3_OIL-S-101133-AJ-L%.xls

**ERH1790 (RHMW03)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

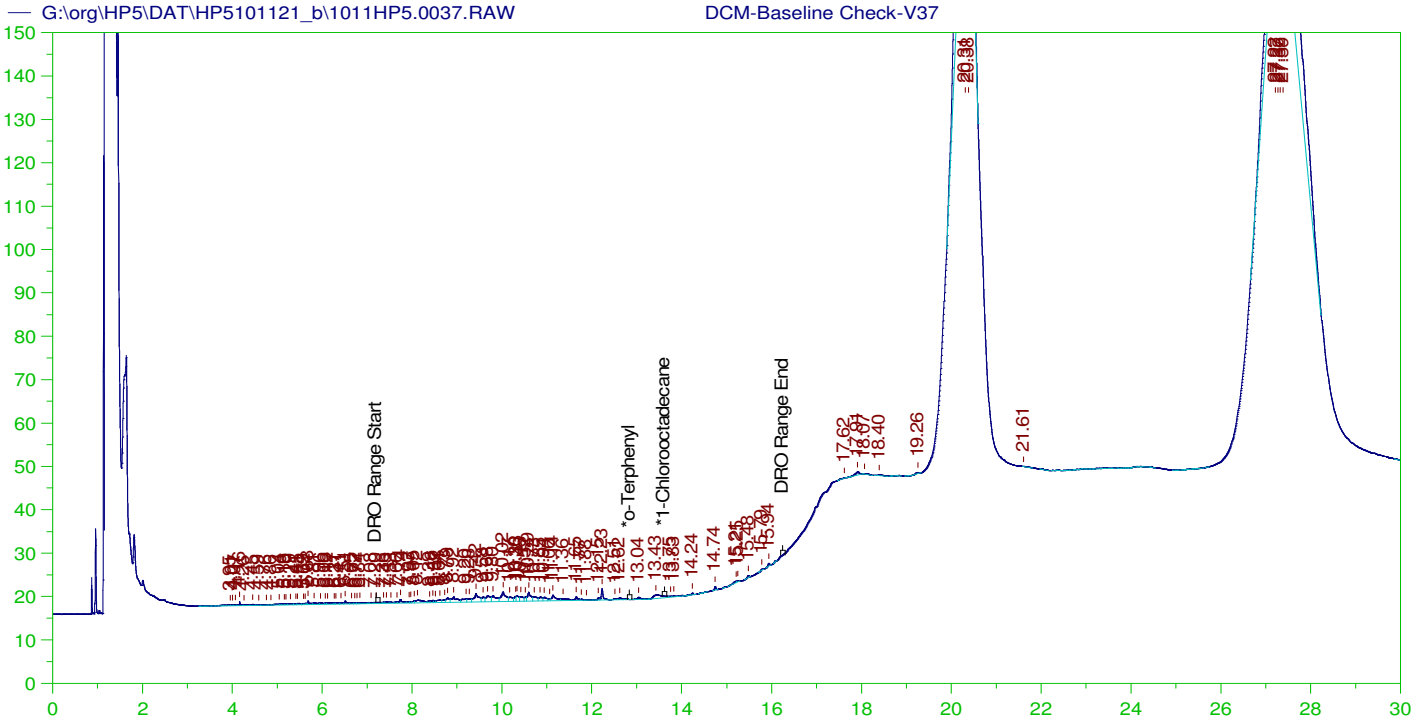
Sample Name: B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW
Date & Time Acquired: 10/12/2021 12:00:27 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .19 | .152 | 79.71 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .115 | 60.62 | - |

DRO Area:3883792 DRO Amount: 0.1255663
TEH Area:4347497 TEH Amount: 0.1405583

G:\org\HP5\dat\HP5101121_b\Review\036_B21100806-003A_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

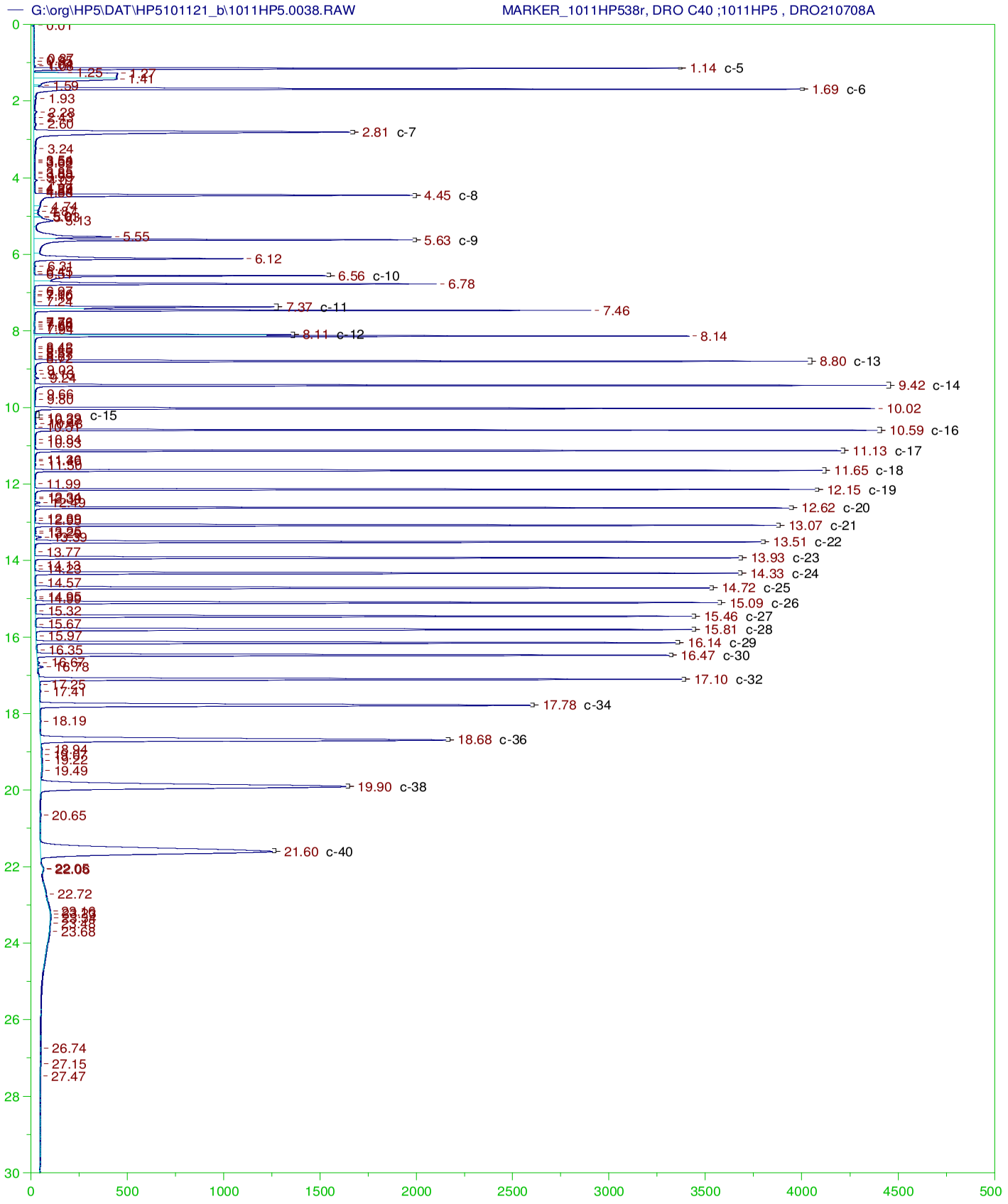
Sample Name: DCM-Baseline Check-V37
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0037.RAW
Date & Time Acquired: 10/12/2021 12:43:35 PM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.882 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.882 | 200. | . | . | - |

DRO Area:224404.9 DRO Amount: 7.617964
TEH Area:1543742 TEH Amount: 52.40603

G:\org\HP5\dat\HP5101121_b\Review\037_DCM-Baseline Chec_DR_8015-HR-LEXP.xls


G:\org\HP5\DAT\HP5101121_b\1011HP5.0038.RAW
MARKER_1011HP538r, DRO C40 ;1011HP5 , DRO210708A
1.14 c-5
1.69 c-6
2.81 c-7
4.45 c-8
5.63 c-9
6.56 c-10
7.37 c-11
8.11 c-12
8.80 c-13
9.42 c-14
10.02
10.59 c-16
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.09 c-26
15.46 c-27
15.81 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
19.90 c-38
21.60 c-40
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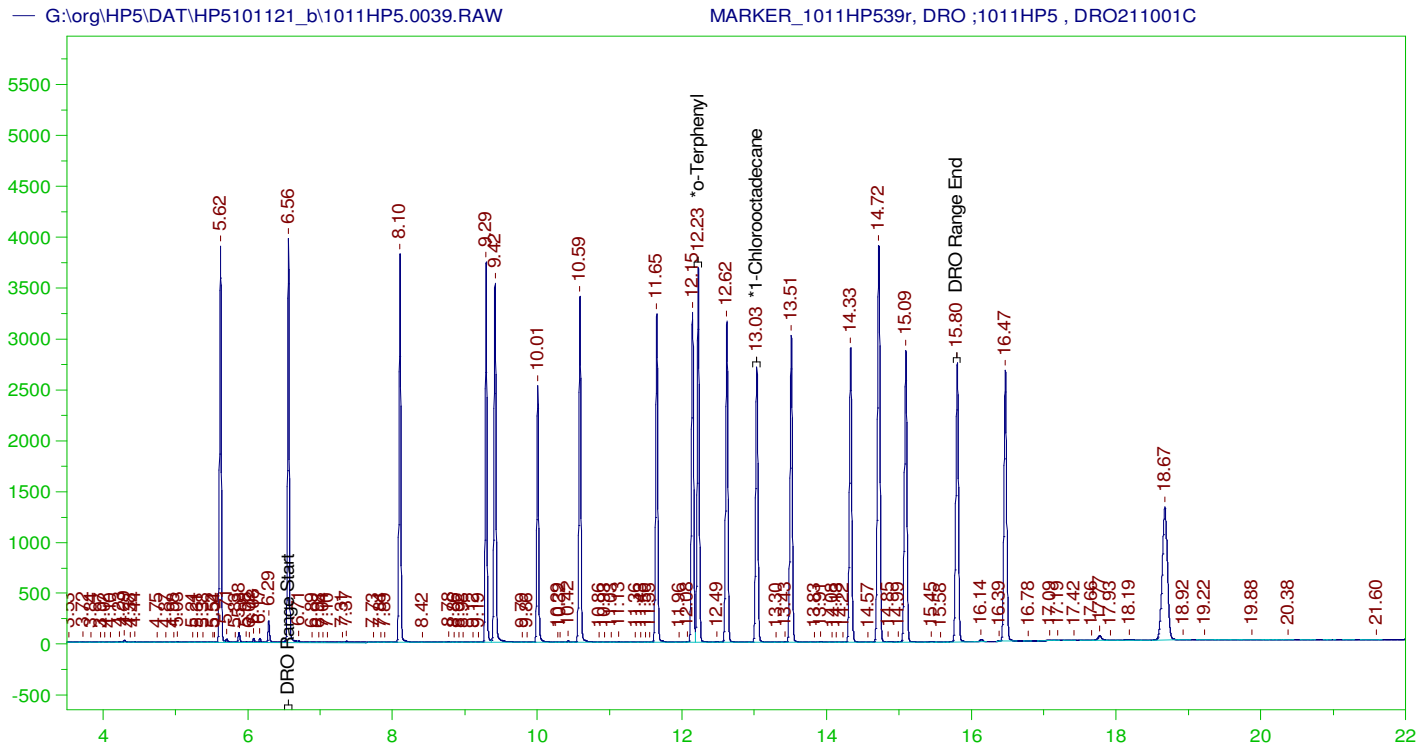



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

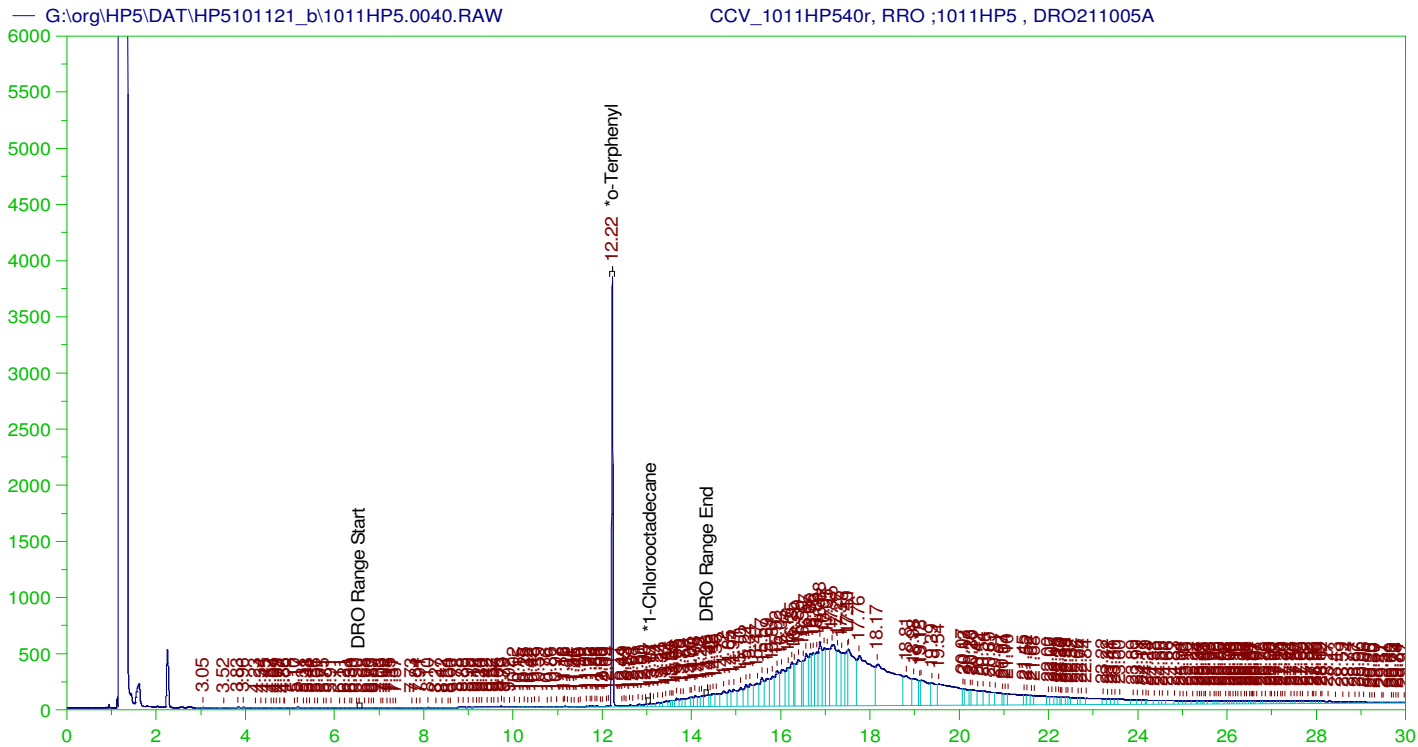
Sample Name: MARKER_1011HP539r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0039.RAW
Date & Time Acquired: 10/12/2021 2:08:53 PM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.226 | .2 | .204 | 102.01 | - |
| *1-Chlorooctadecane | 13.034 | .2 | .165 | 82.46 | - |

DRO Area:9.324538E+07 DRO Amount: 3.165439
TEH Area:1.141333E+08 TEH Amount: 3.874528

G:\org\HP5\dat\HP5101121_b\Review\039_MARKER_1011HP539r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP540r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0040.RAW
Date & Time Acquired: 10/12/2021 2:52:09 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 214.108 | 107.05 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 3.822 | 1.91 | - |

DRO Area:6002268 DRO Amount: 210.293
TEH (Oil Range)Area:1.303394E+08 TEH (Oil Range)Amount: 4566.519

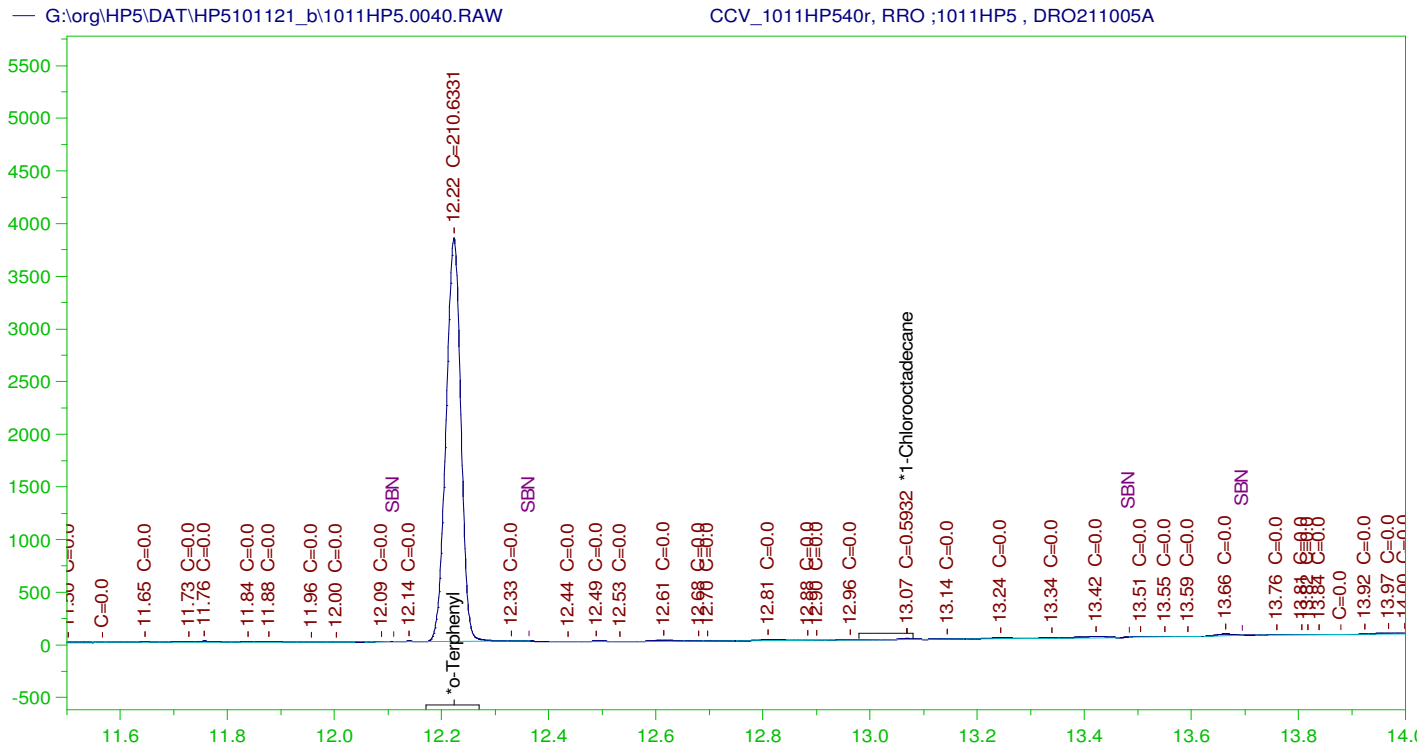
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0040.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4566.52 | 91.33 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 214.108 | 107.05 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 3.822 | 1.91 | 85-115 |

AMN 10/19/2021

G:\org\HP5\dat\HP5101121_b\Review\040_CCV_1011HP540r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP540r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0040.RAW
Date & Time Acquired: 10/12/2021 2:52:09 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 210.633 | 105.32 | - |
| *1-Chlorooctadecane | 13.069 | 200. | .593 | .3 | - |

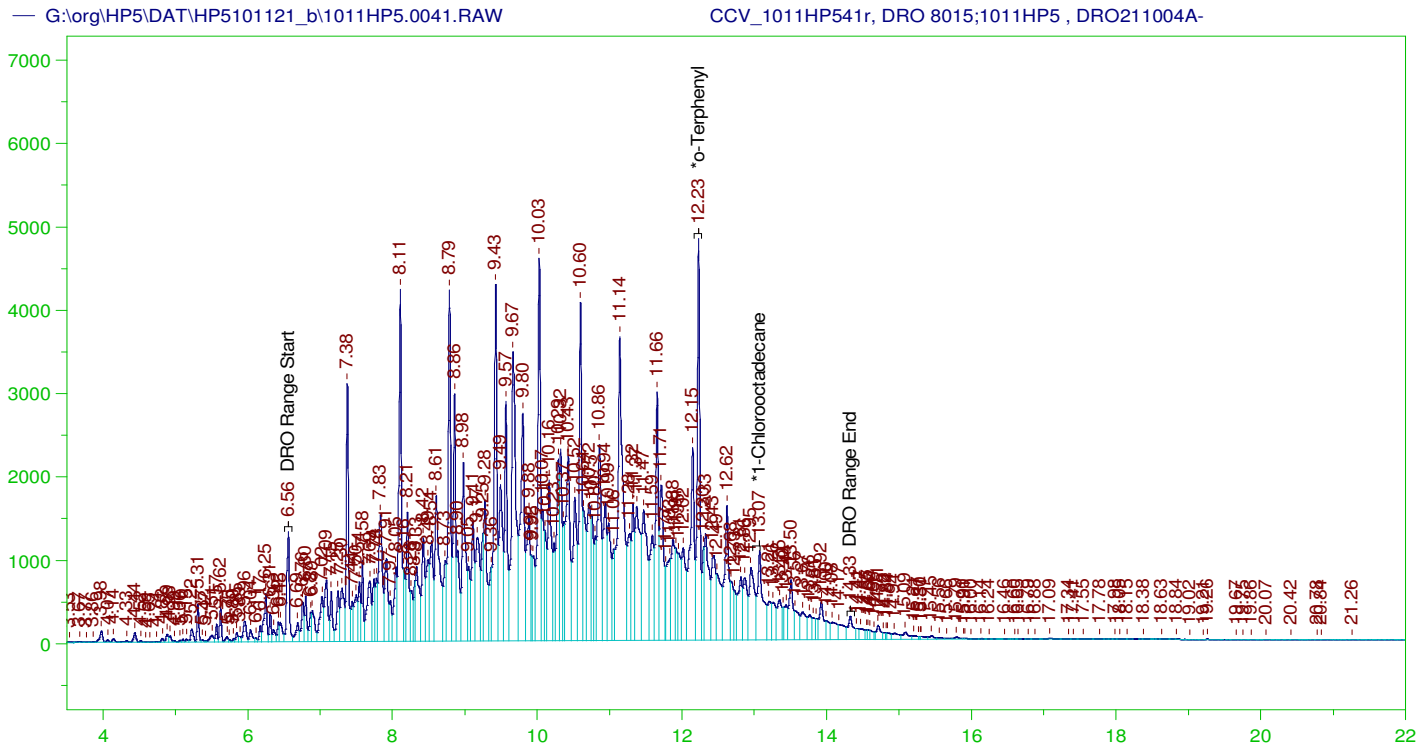
DRO Area:858595.4 DRO Amount: 30.08139
TEH Area:2058936 TEH Amount: 72.13601

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0040.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 72.14 | 1.44 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 210.633 | 105.32 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | .593 | .3 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\040_CCV_1011HP540r_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP541r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0041.RAW
Date & Time Acquired: 10/12/2021 3:34:55 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.231 | 200. | 344.532 | 172.27 | - |
| *1-Chlorooctadecane | 13.071 | 200. | 153.609 | 76.8 | - |

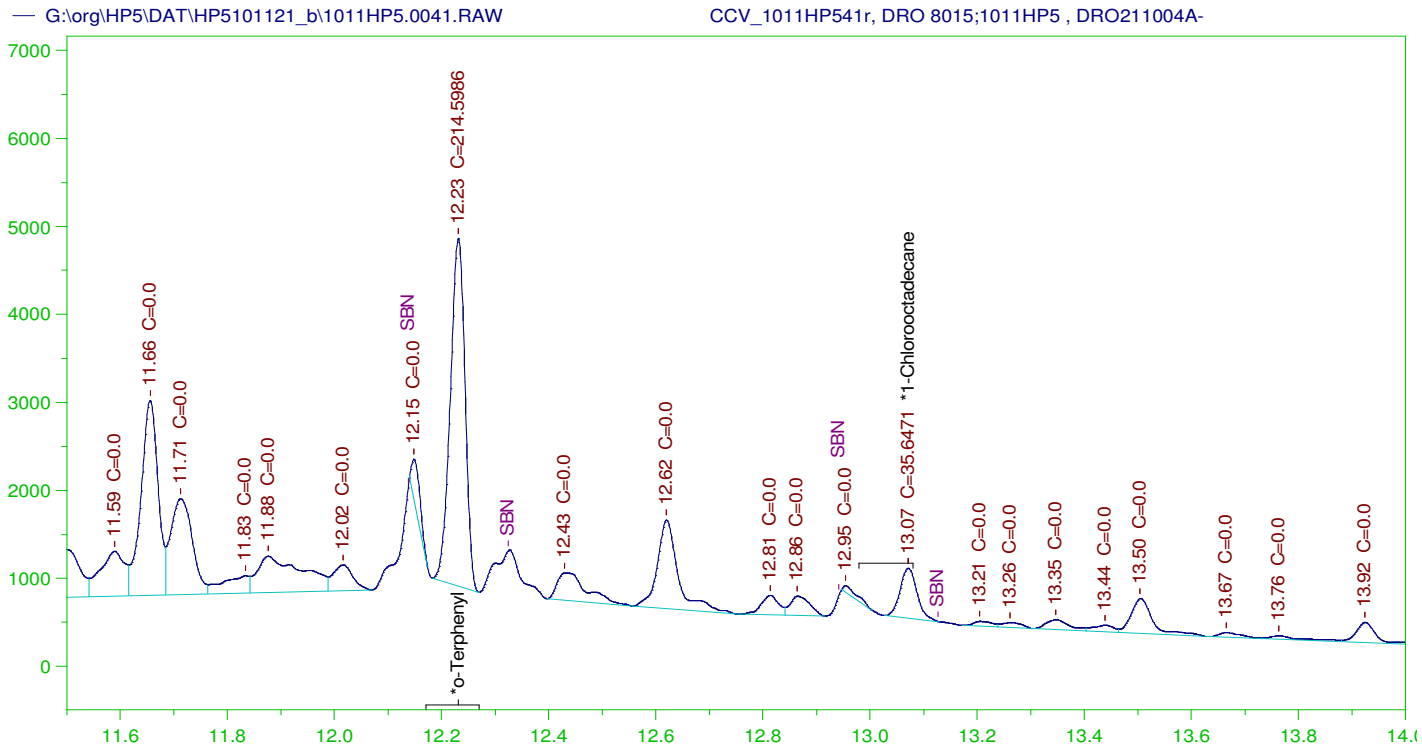
DRO Area:4.531507E+08 DRO Amount: 15383.29
TEH Area:4.693902E+08 TEH Amount: 15934.58

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15934.58 | 106.23 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.231 | 200. | 344.532 | 172.27 | 85-115 |
| *1-Chlorooctadecane | 13.071 | 200. | 153.609 | 76.8 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\041_CCV_1011HP541r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP541r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0041.RAW
Date & Time Acquired: 10/12/2021 3:34:55 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.231 | 200. | 214.599 | 107.3 | - |
| *1-Chlorooctadecane | 13.071 | 200. | 35.647 | 17.82 | - |

DRO Area:2.51284E+08 DRO Amount: 8530.441
TEH Area:2.611027E+08 TEH Amount: 8863.76

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8863.76 | 59.09 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.231 | 200. | 214.599 | 107.3 | 85-115 |
| *1-Chlorooctadecane | 13.071 | 200. | 35.647 | 17.82 | 85-115 |

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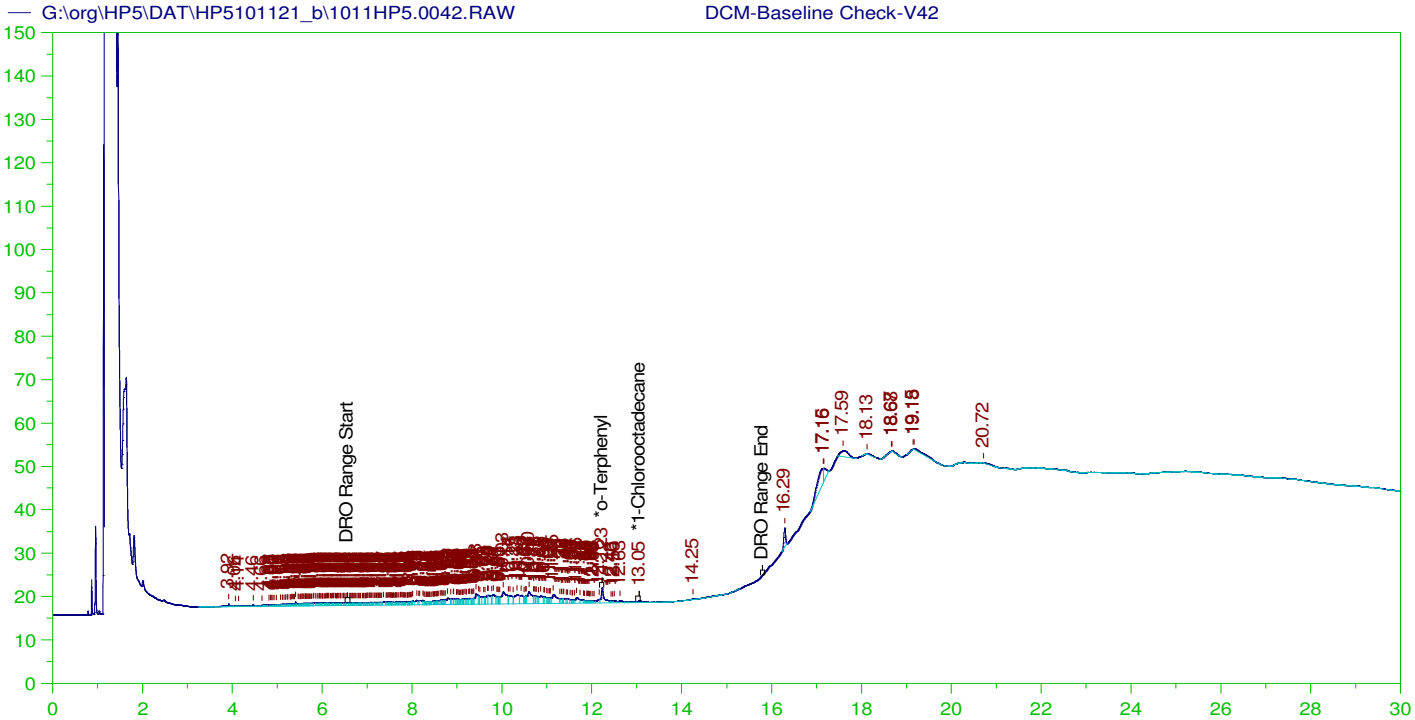



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V42
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0042.RAW
Date & Time Acquired: 10/12/2021 4:17:49 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

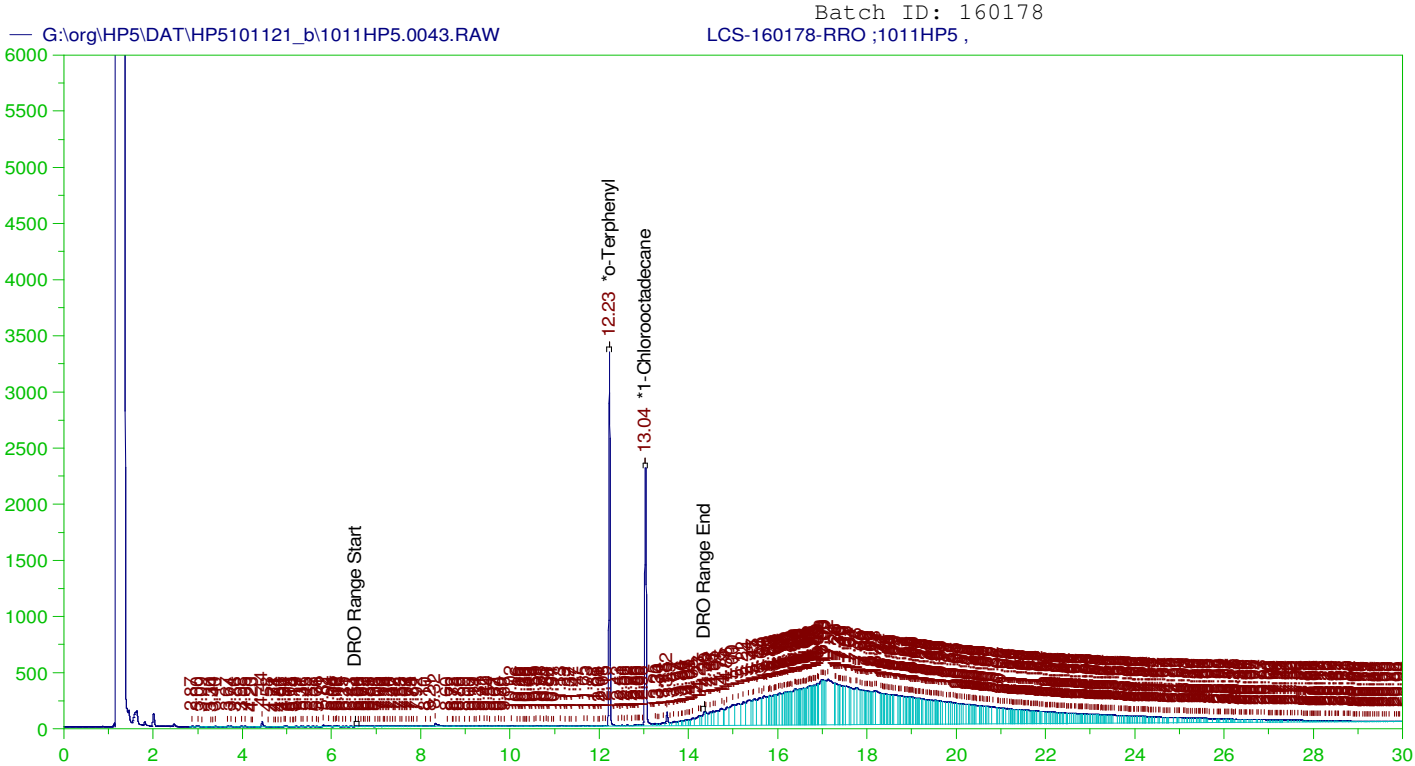
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | .458 | .23 | - |
| *1-Chlorooctadecane | 13.053 | 200. | .058 | .03 | - |

DRO Area:395442.1 DRO Amount: 13.42423
TEH Area:569509.8 TEH Amount: 19.33338

G:\org\HP5\dat\HP5101121_b\Review\042_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0043.RAW
Date & Time Acquired: 10/12/2021 5:00:36 PM
Method File: G:\Org\HP5\Methods\D3_OIL-101143-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | .2 | .184 | 92.07 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .147 | 73.46 | - |

DRO Area:4437520 DRO Amount: 0.1554711
TEH (Oil Range)Area:1.287489E+08 TEH (Oil Range)Amount: 4.510794

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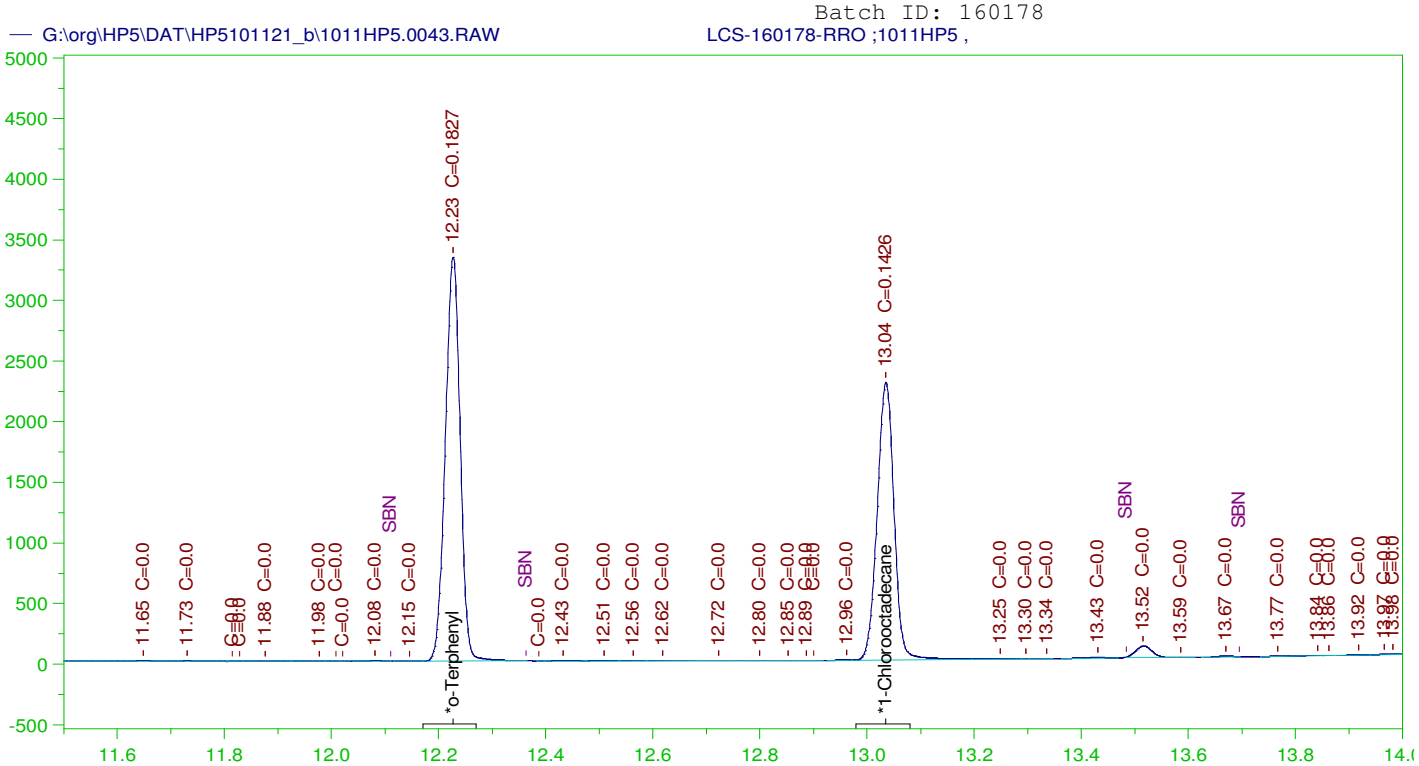
G:\org\HP5\dat\HP5101121_b\Review\043_LCS-160178-RRO_D3_OIL-101143-AJ-L%.xls

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0043.RAW
Date & Time Acquired: 10/12/2021 5:00:36 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | .2 | .183 | 91.37 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .143 | 71.29 | - |

DRO Area:1212925 DRO Amount: 4.249554E-02
TEH Area:2753507 TEH Amount: 9.647073E-02

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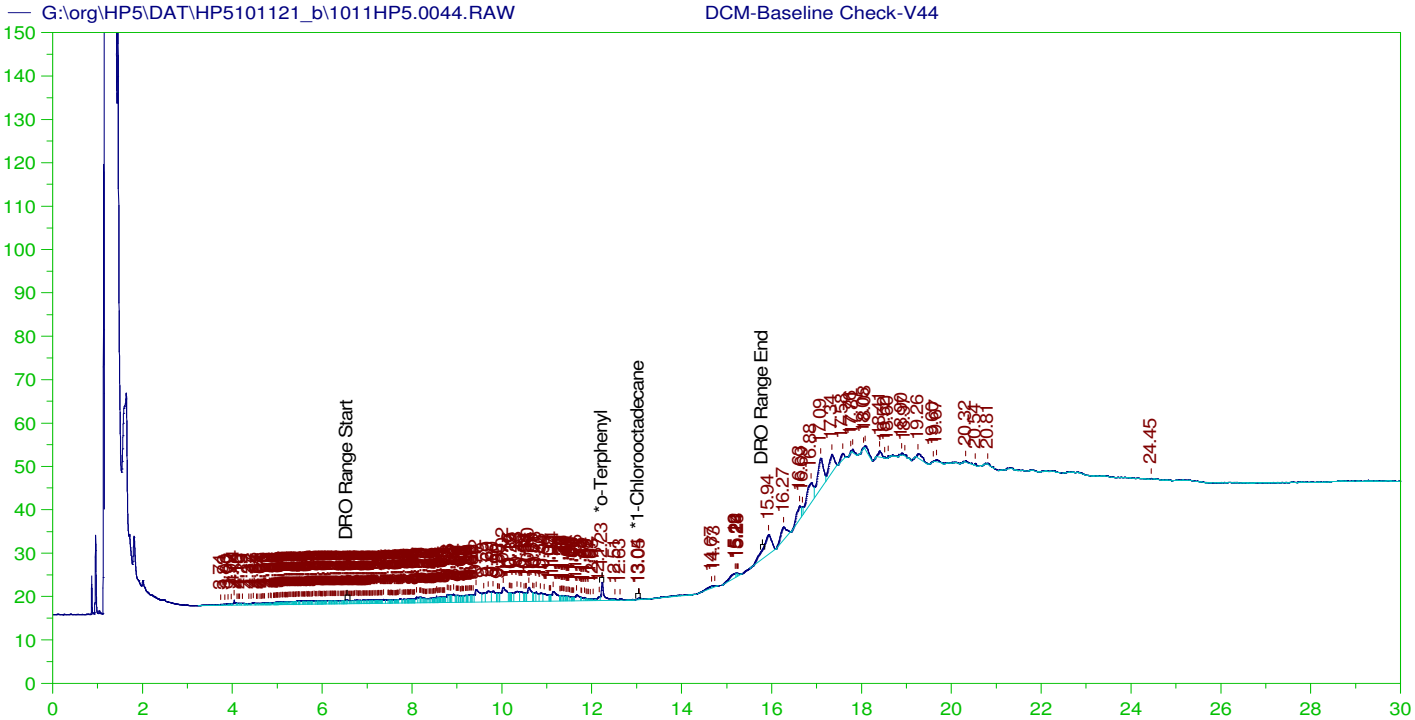



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V44
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0044.RAW
Date & Time Acquired: 10/12/2021 5:43:44 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

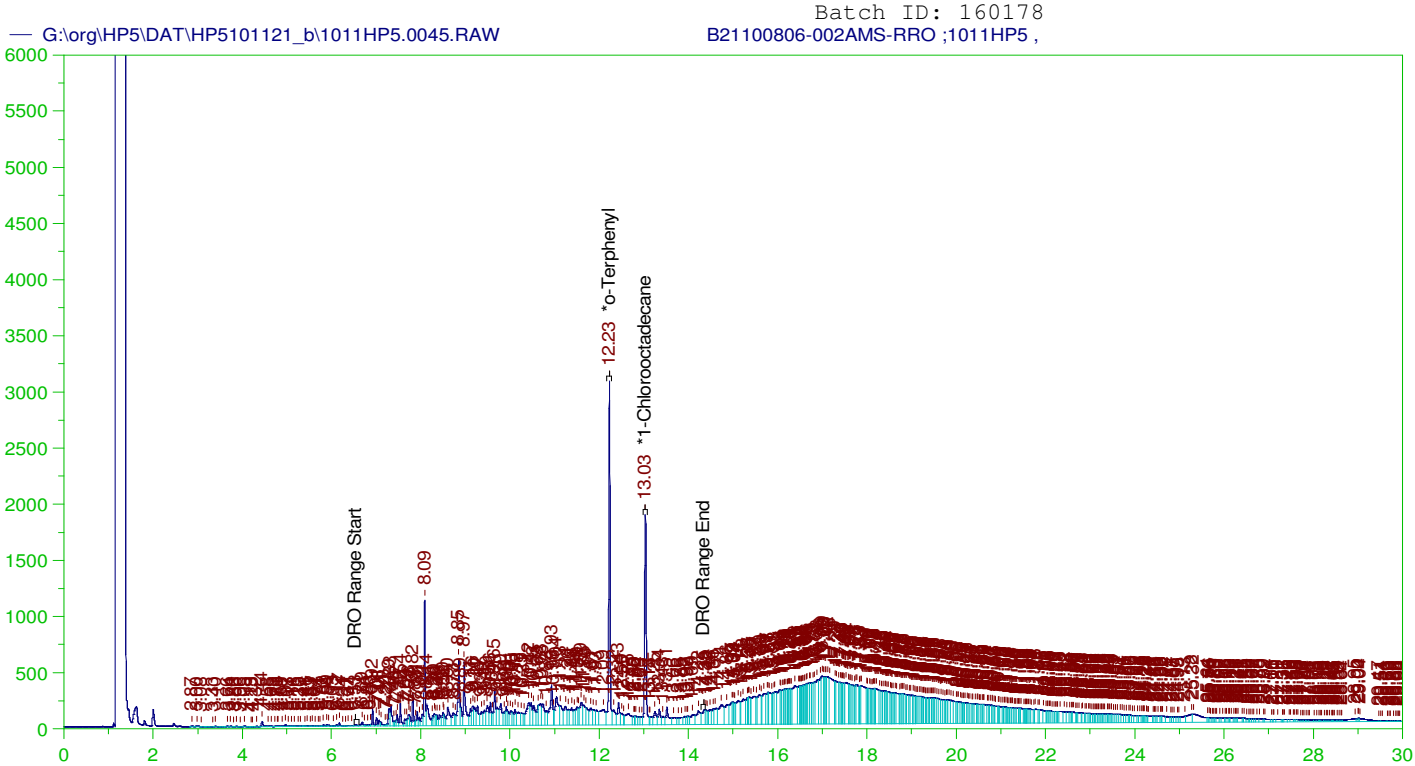
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | .5 | .25 | - |
| *1-Chlorooctadecane | 13.041 | 200. | .023 | .01 | - |

DRO Area:489548.4 DRO Amount: 16.6189
TEH Area:930106.1 TEH Amount: 31.57469

G:\org\HP5\dat\HP5101121_b\Review\044_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

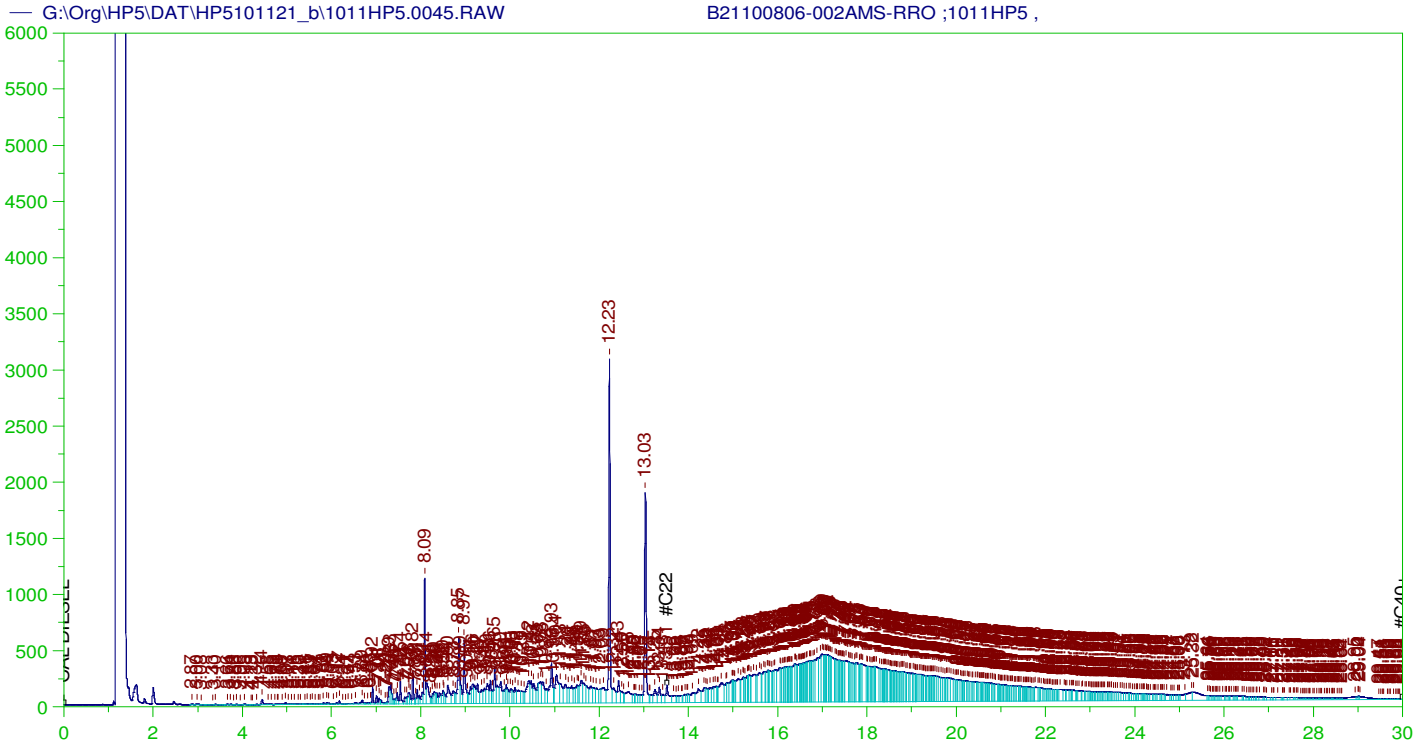
Sample Name: B21100806-002AMS-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0045.RAW
Date & Time Acquired: 10/12/2021 6:26:58 PM
Method File: G:\Org\HP5\Methods\D3_OIL-101143-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .392 | .37 | 94.27 | - |
| *1-Chlorooctadecane | 13.032 | .392 | .249 | 63.41 | - |

DRO Area:5.133524E+07 DRO Amount: 3.526589
TEH Area:1.829917E+08 TEH Amount: 12.57102

G:\org\HP5\dat\HP5101121_b\Review\045_B21100806-002AMS-RRO_D3_OIL-101143-AJ-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002AMS-RRO ;1011HP5 ,
Raw File: G:\Org\HP5\DAT\HP5101121_b\1011HP5.0045.RAW
Date & Time Acquired: 10/12/2021 6:26:58 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP-PARENT.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ (TEH(Oil Range) Range Organics Calculations: 28542.41
Rt range for ~~Residual~~ (TEH(Oil Range)Range Organics: 13.46 to 30.05

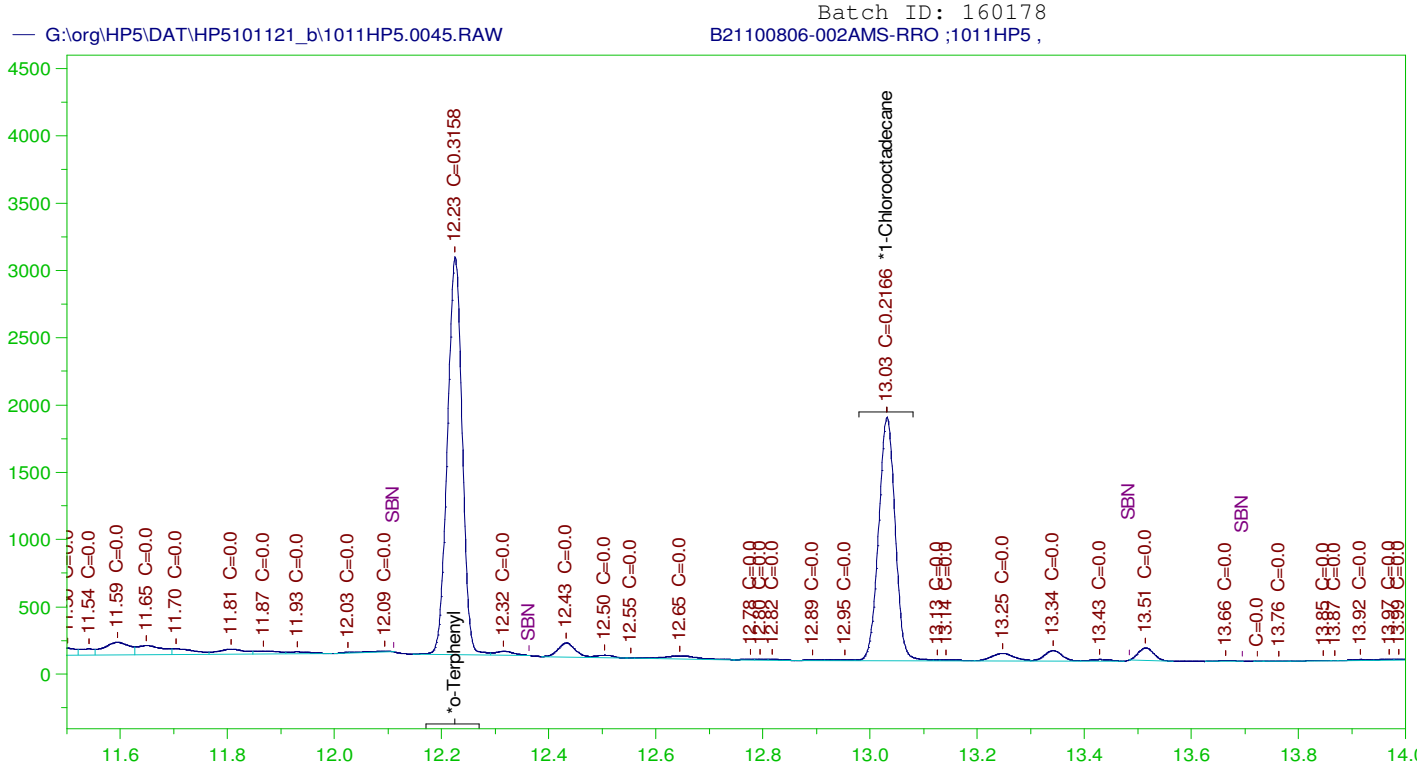
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ (TEH(Oil Range)Area:1.354273E+08 ~~RRO~~ (TEH(Oil Range) AMOUNT: 9.30348

AMN 10/19/2021

G:\org\HP5\dat\HP5101121_b\Review\045_B21100806-002AMS-RRO_D3_OIL-S-101145-AJ-L%.xls

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

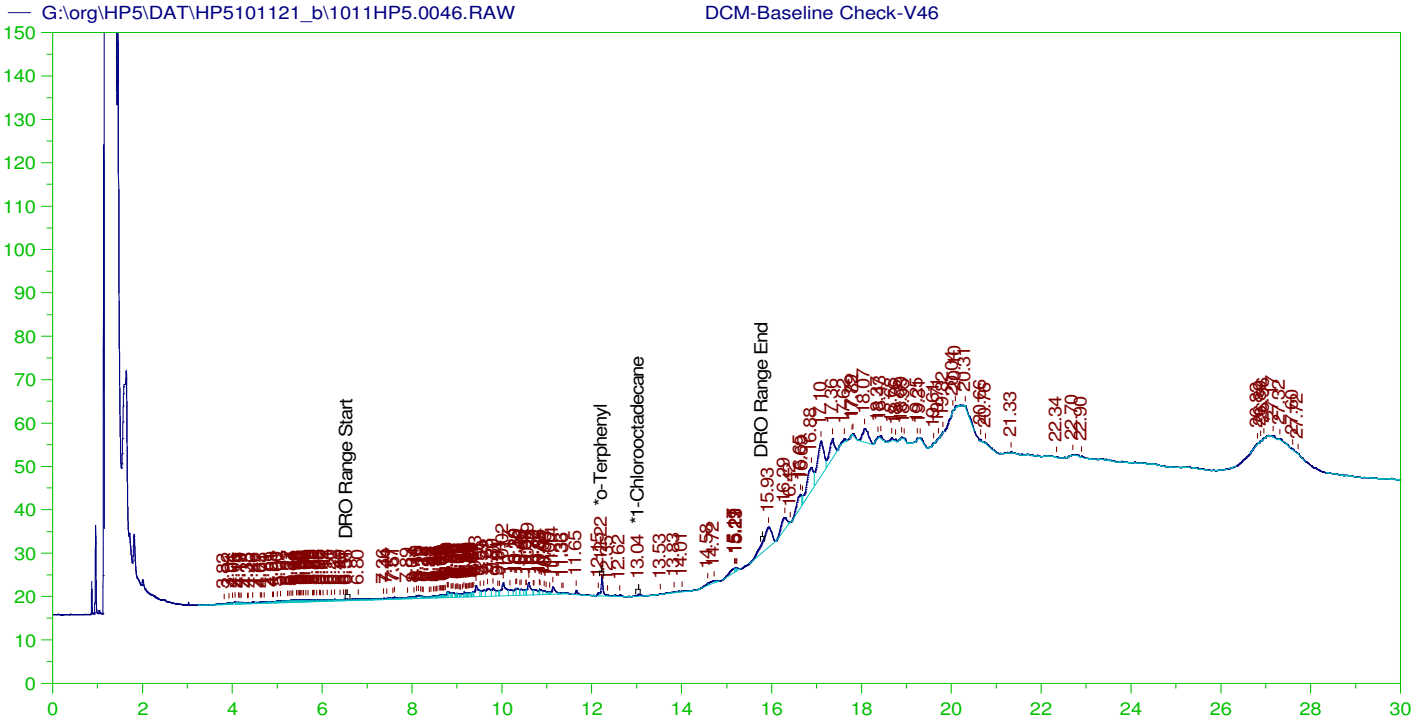
Sample Name: B21100806-002AMS-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0045.RAW
Date & Time Acquired: 10/12/2021 6:26:58 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .392 | .316 | 80.52 | - |
| *1-Chlorooctadecane | 13.032 | .392 | .217 | 55.23 | - |

DRO Area:2.270019E+07 DRO Amount: 1.55944
TEH Area:2.444042E+07 TEH Amount: 1.678989

G:\org\HP5\dat\HP5101121_b\Review\045_B21100806-002AMS-RRO_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V46
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0046.RAW
Date & Time Acquired: 10/12/2021 7:10:10 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | 200. | .406 | .2 | - |
| *1-Chlorooctadecane | 13.041 | 200. | .072 | .04 | - |

DRO Area:268028.8 DRO Amount: 9.098881
TEH Area:722764.6 TEH Amount: 24.53598

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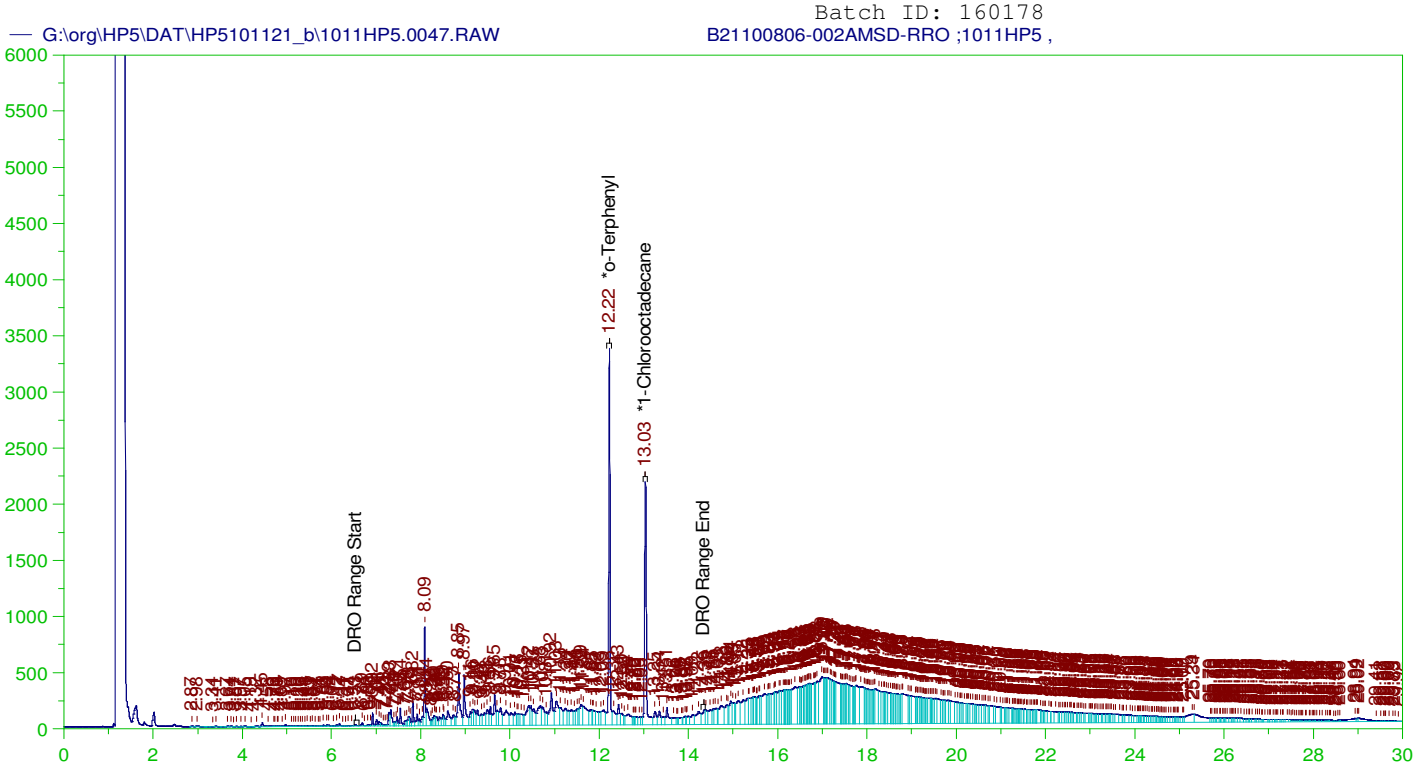
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

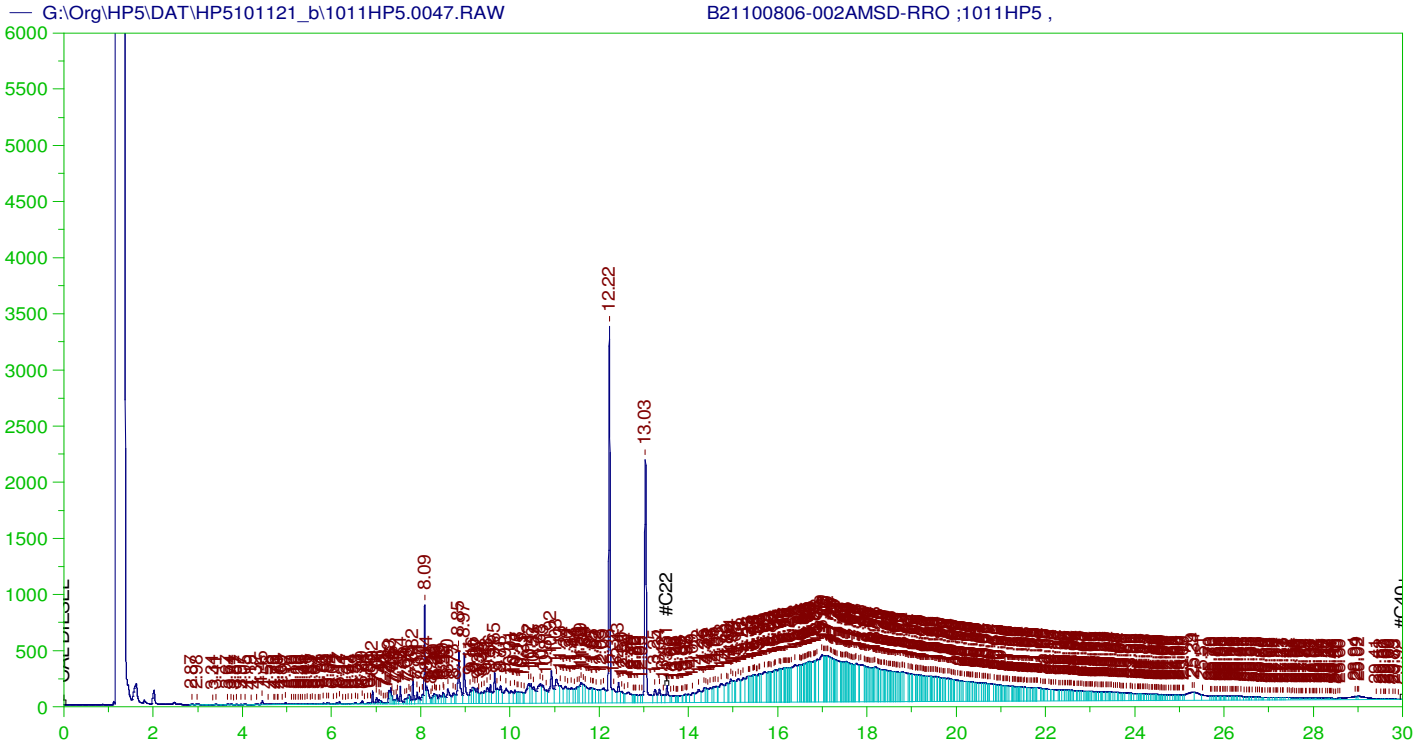
Sample Name: B21100806-002AMSD-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0047.RAW
Date & Time Acquired: 10/12/2021 7:53:22 PM
Method File: G:\Org\HP5\Methods\D3_OIL-101143-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | .392 | .409 | 104.27 | - |
| *1-Chlorooctadecane | 13.033 | .392 | .308 | 78.5 | - |

DRO Area:4.530737E+07 DRO Amount: 3.112491
TEH Area:1.740856E+08 TEH Amount: 11.9592

G:\org\HP5\dat\HP5101121_b\Review\047_B21100806-002AMSD-RRO_D3_OIL-101143-AJ-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002AMSD-RRO ;1011HP5 ,
Raw File: G:\Org\HP5\DAT\HP5101121_b\1011HP5.0047.RAW
Date & Time Acquired: 10/12/2021 7:53:22 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP-PARENT.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

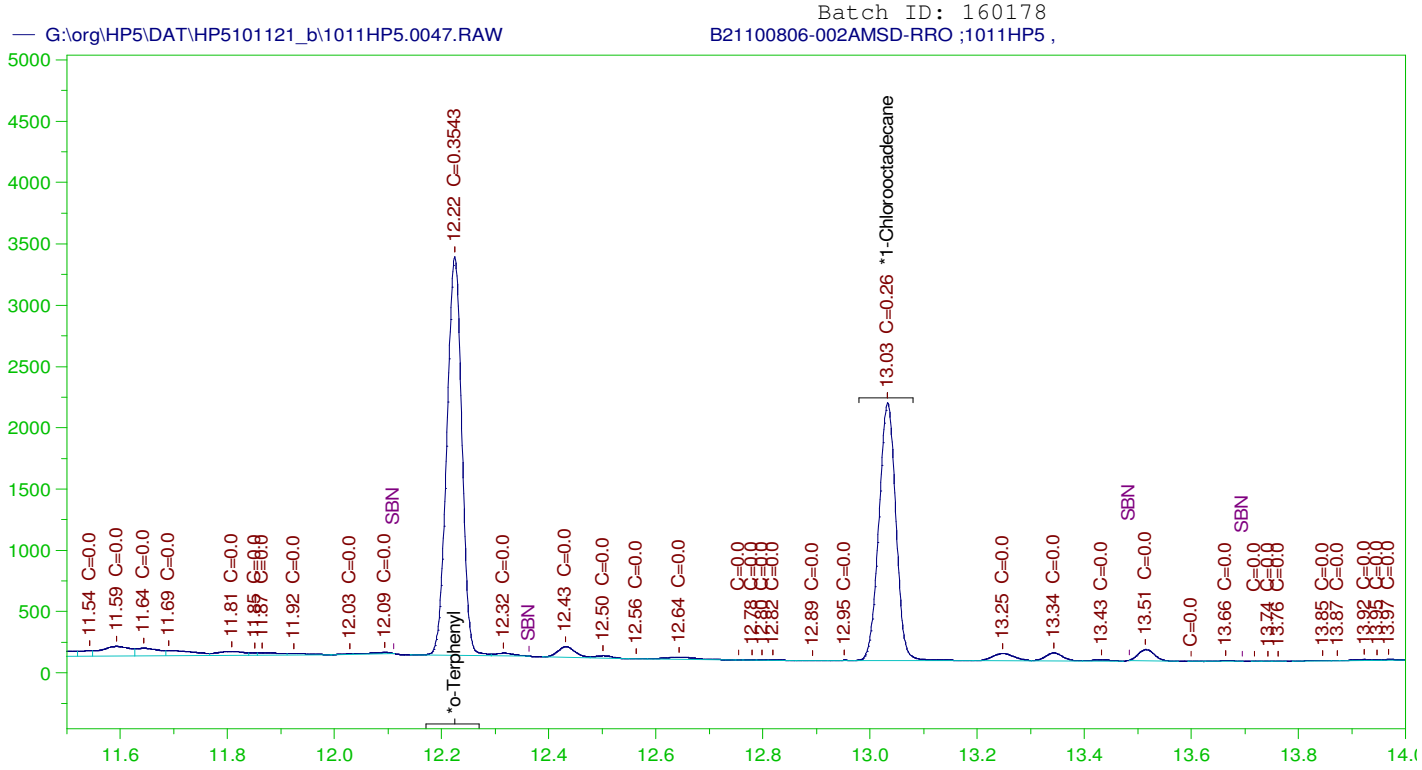
Mean RF for for ~~Residual~~ (TEH(Oil Range) Range Organics Calculations: 28542.41
Rt range for ~~Residual~~ (TEH(Oil Range)Range Organics: 13.46 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ (TEH(Oil Range)Area:1.325923E+08 ~~RRO~~ (TEH(Oil Range)AMOUNT: 9.108723

AMN 10/19/2021

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

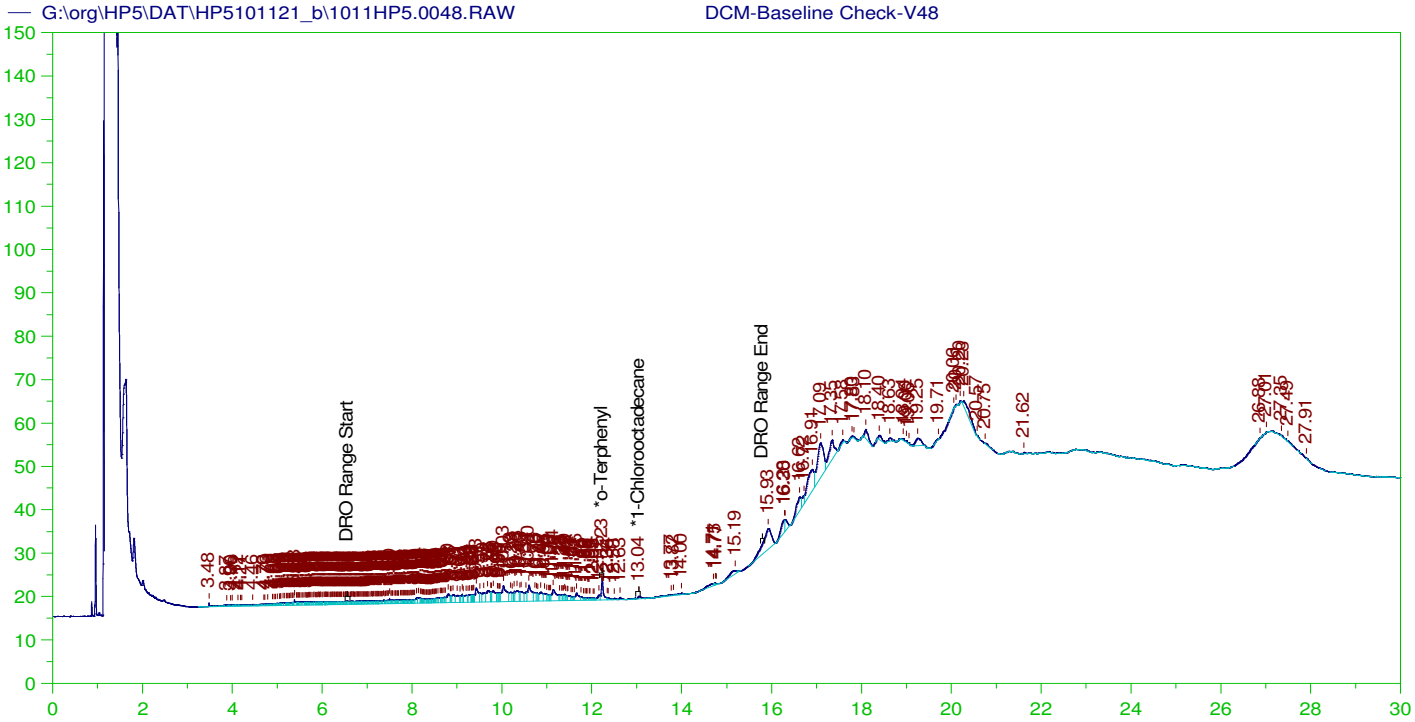
Sample Name: B21100806-002AMSD-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0047.RAW
Date & Time Acquired: 10/12/2021 7:53:22 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | .392 | .354 | 90.34 | - |
| *1-Chlorooctadecane | 13.033 | .392 | .26 | 66.29 | - |

DRO Area:1.846595E+07 DRO Amount: 1.26856
TEH Area:2.01283E+07 TEH Amount: 1.382759

G:\org\HP5\dat\HP5101121_b\Review\047_B21100806-002AMSD-RRO_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V48
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0048.RAW
Date & Time Acquired: 10/12/2021 8:36:32 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | .475 | .24 | - |
| *1-Chlorooctadecane | 13.044 | 200. | .079 | .04 | - |

DRO Area:485889.3 DRO Amount: 16.49468
TEH Area:968910.9 TEH Amount: 32.89201

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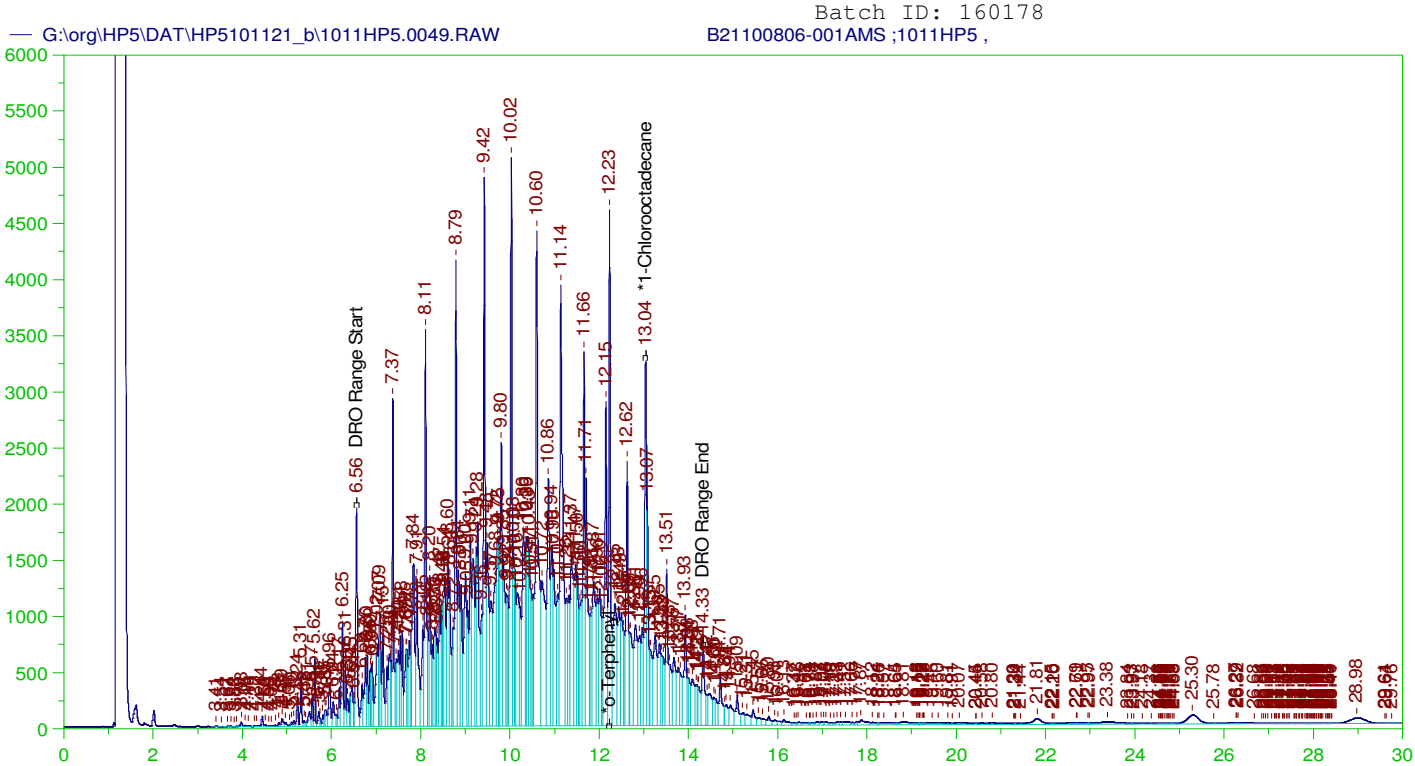
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001AMS ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0049.RAW
Date & Time Acquired: 10/12/2021 9:19:44 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .381 | .707 | 185.65 | - |
| *1-Chlorooctadecane | 13.037 | .381 | .49 | 128.67 | - |

DRO Area:4.815046E+08 DRO Amount: 31.13492
TEH Area:5.240819E+08 TEH Amount: 33.88804

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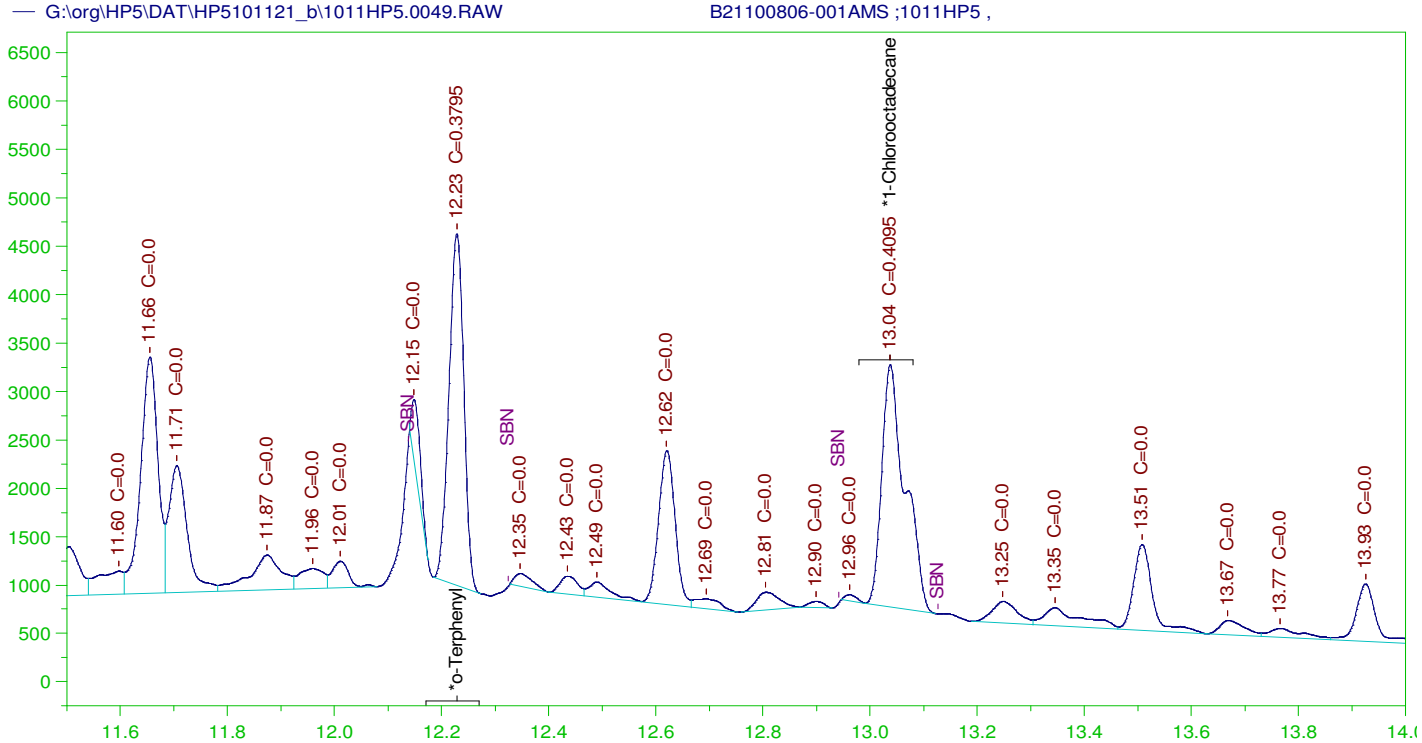
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

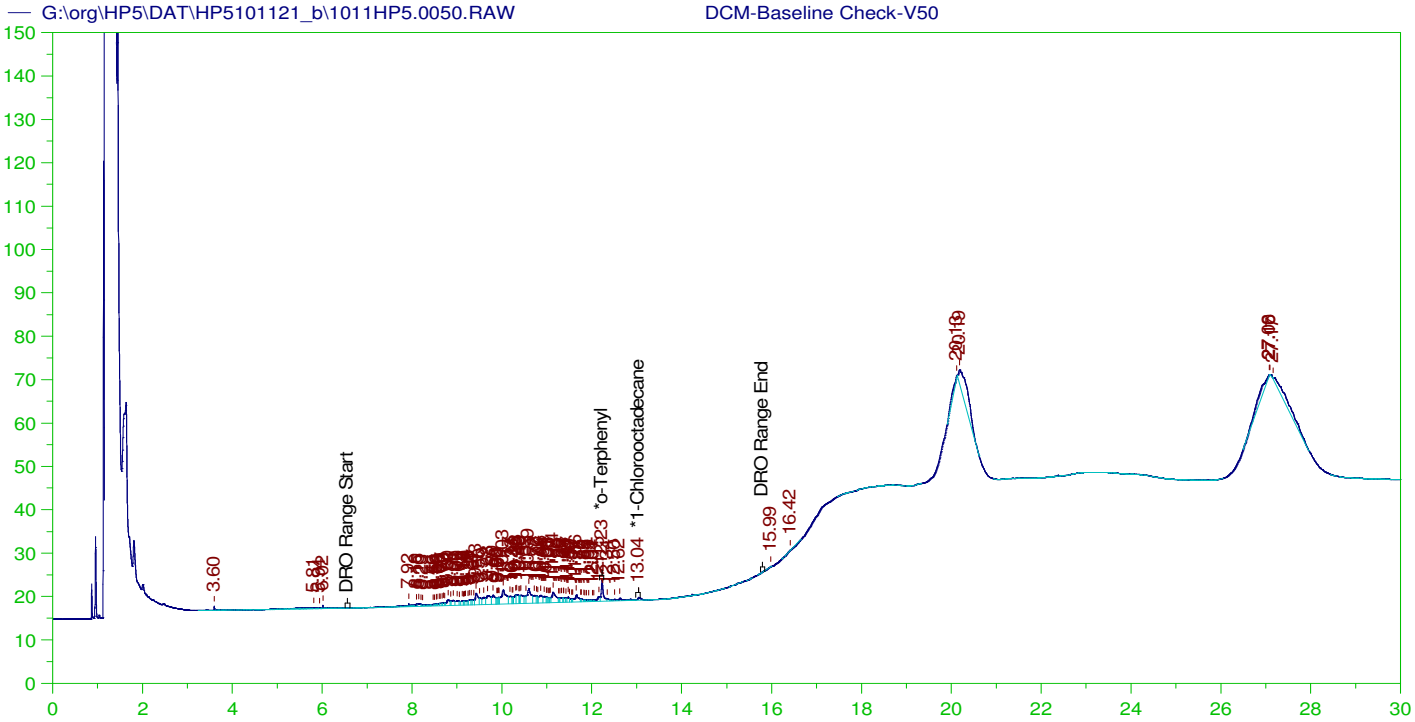
Sample Name: B21100806-001AMS ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0049.RAW
Date & Time Acquired: 10/12/2021 9:19:44 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .381 | .38 | 99.63 | - |
| *1-Chlorooctadecane | 13.037 | .381 | .409 | 107.49 | - |

DRO Area:2.317815E+08 DRO Amount: 14.98739
TEH Area:2.44508E+08 TEH Amount: 15.81031

G:\org\HP5\dat\HP5101121_b\Review\049_B21100806-001AMS_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V50
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0050.RAW
Date & Time Acquired: 10/12/2021 10:02:56 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | 200. | .465 | .23 | - |
| *1-Chlorooctadecane | 13.04 | 200. | .088 | .04 | - |

DRO Area:307133.7 DRO Amount: 10.42639
TEH Area:523790.1 TEH Amount: 17.78131

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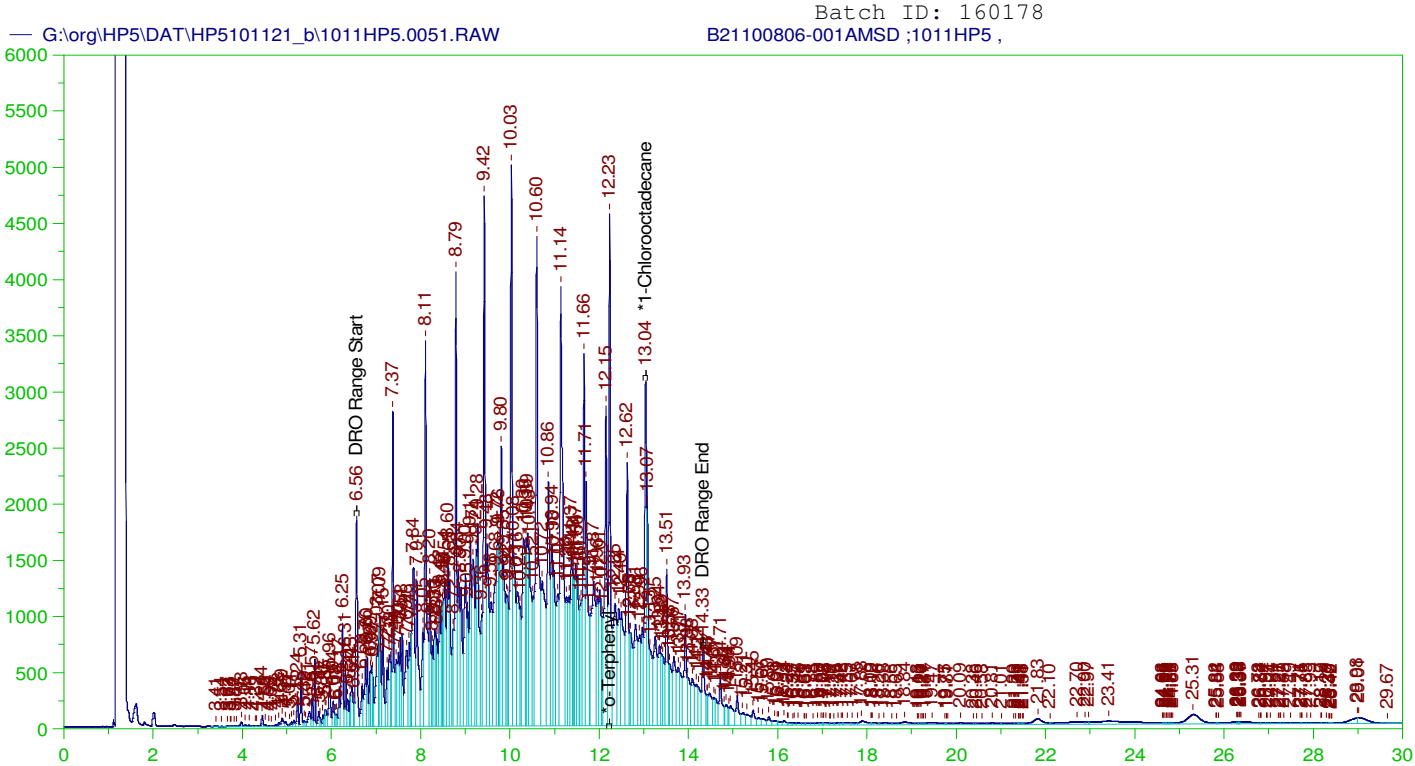
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

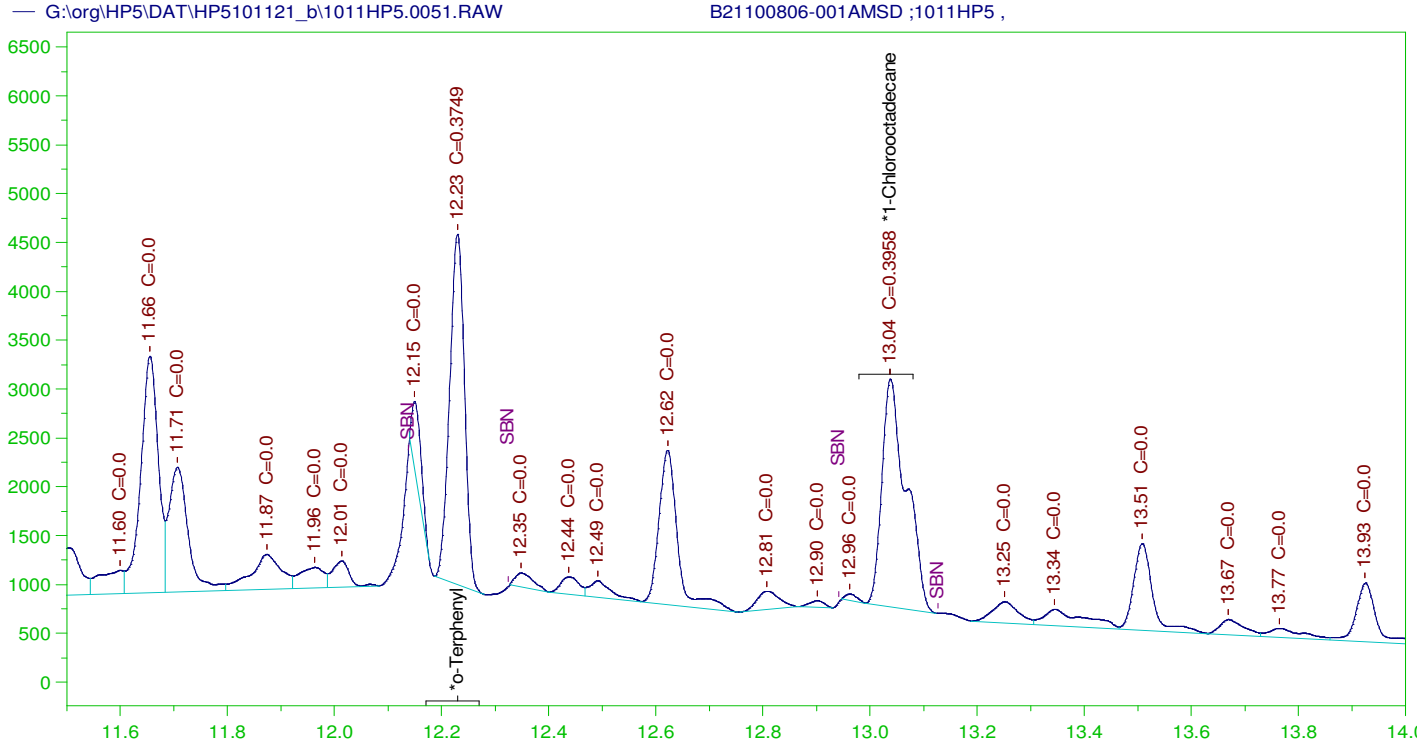
Sample Name: B21100806-001AMSD ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0051.RAW
Date & Time Acquired: 10/12/2021 10:46:05 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | .381 | .679 | 178.33 | - |
| *1-Chlorooctadecane | 13.038 | .381 | .472 | 123.79 | - |

DRO Area:4.798097E+08 DRO Amount: 31.02532
TEH Area:5.220179E+08 TEH Amount: 33.75457

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001AMSD ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0051.RAW
Date & Time Acquired: 10/12/2021 10:46:05 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | .381 | .375 | 98.41 | - |
| *1-Chlorooctadecane | 13.038 | .381 | .396 | 103.91 | - |

DRO Area:2.295477E+08 DRO Amount: 14.84295
TEH Area:2.423234E+08 TEH Amount: 15.66905

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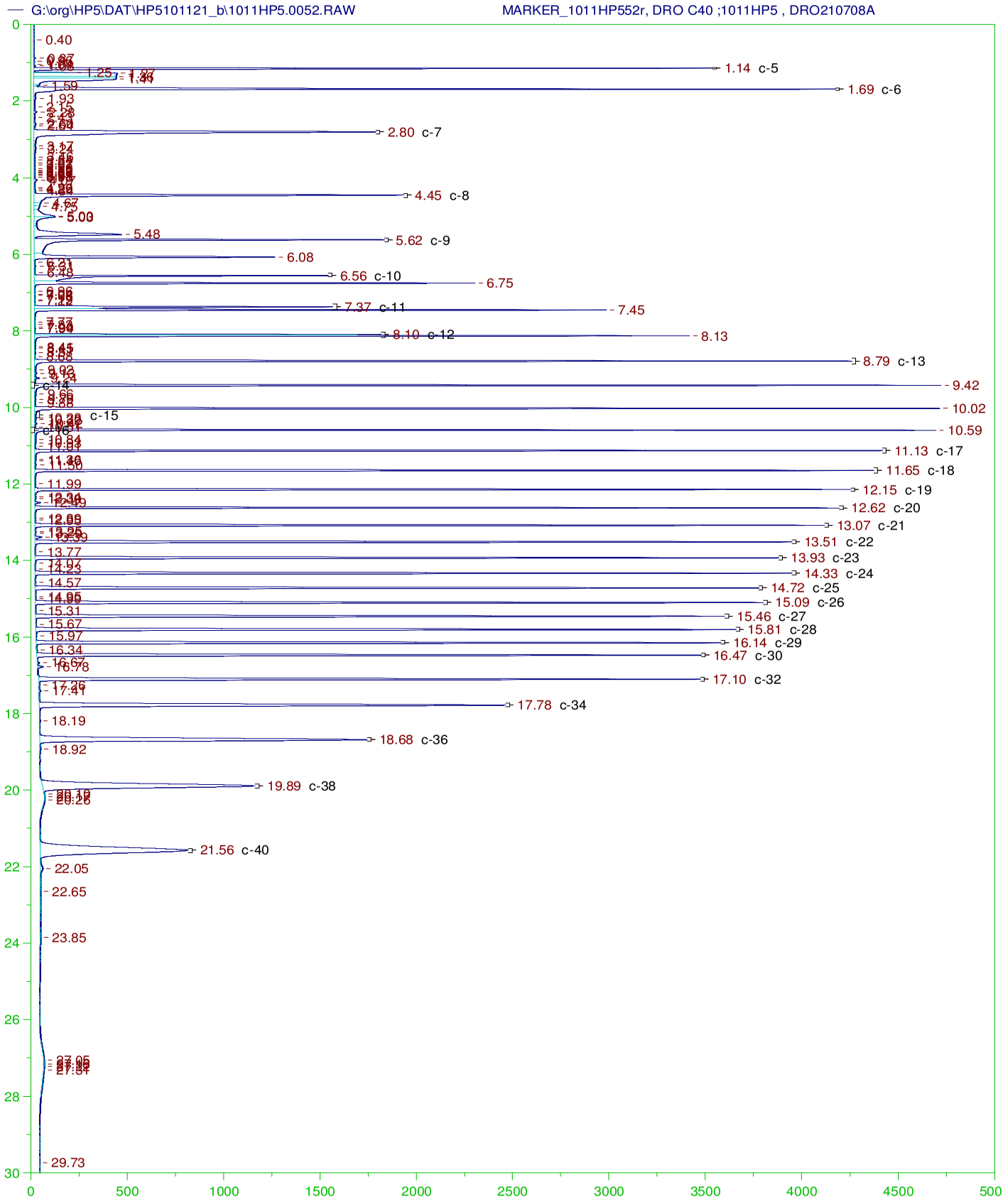
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MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A
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1.69 c-6
2.80 c-7
4.45 c-8
5.48
5.62 c-9
6.08
6.56 c-10
6.75
7.37 c-11
7.45
8.10 c-12
8.13
8.79 c-13
9.42
10.02
10.59
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.09 c-26
15.46 c-27
15.81 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
19.89 c-38
21.56 c-40
29.73
0
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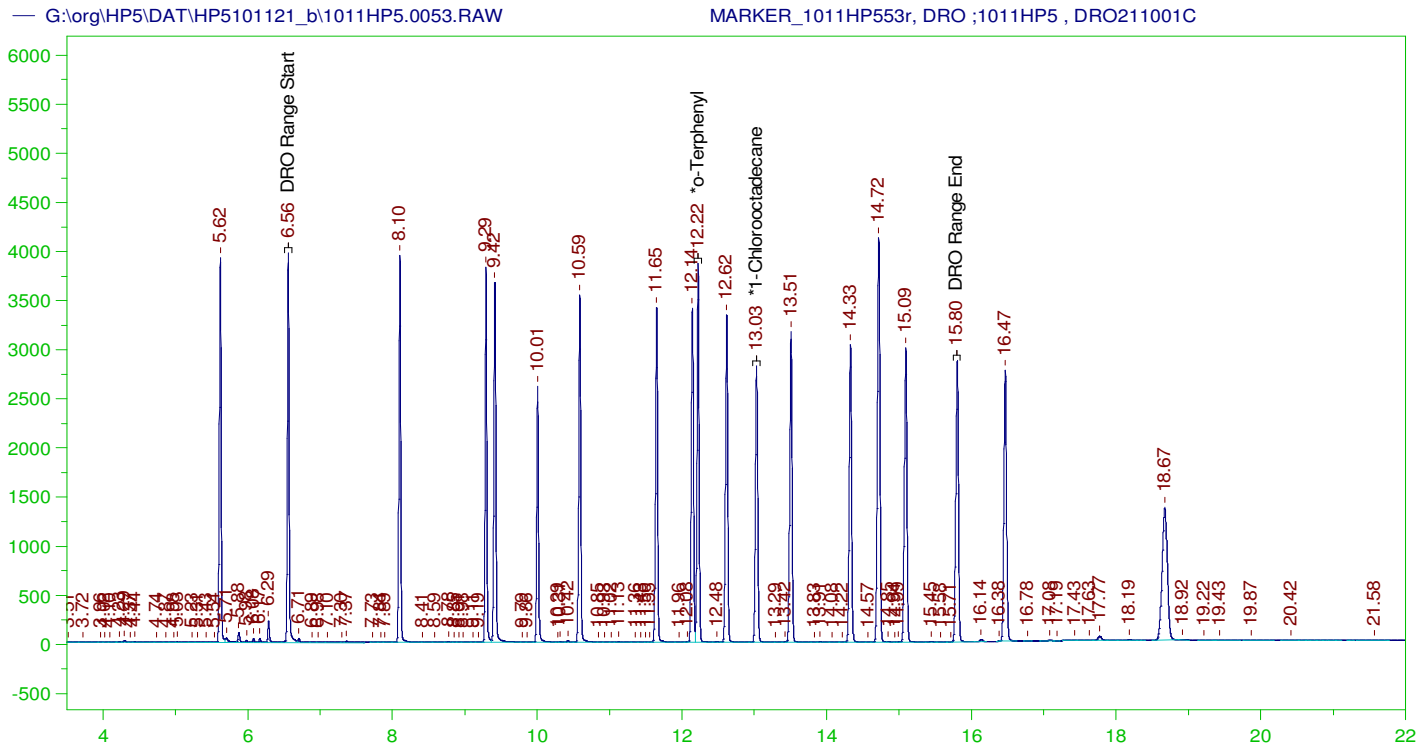


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0053.RAW
Date & Time Acquired: 10/13/2021 12:12:14 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 213.186 | 106.59 | - |
| *1-Chlorooctadecane | 13.031 | 200. | 172.732 | 86.37 | - |

DRO Area:9.775298E+07 DRO Amount: 3318.46
TEH Area:1.195781E+08 TEH Amount: 4059.366

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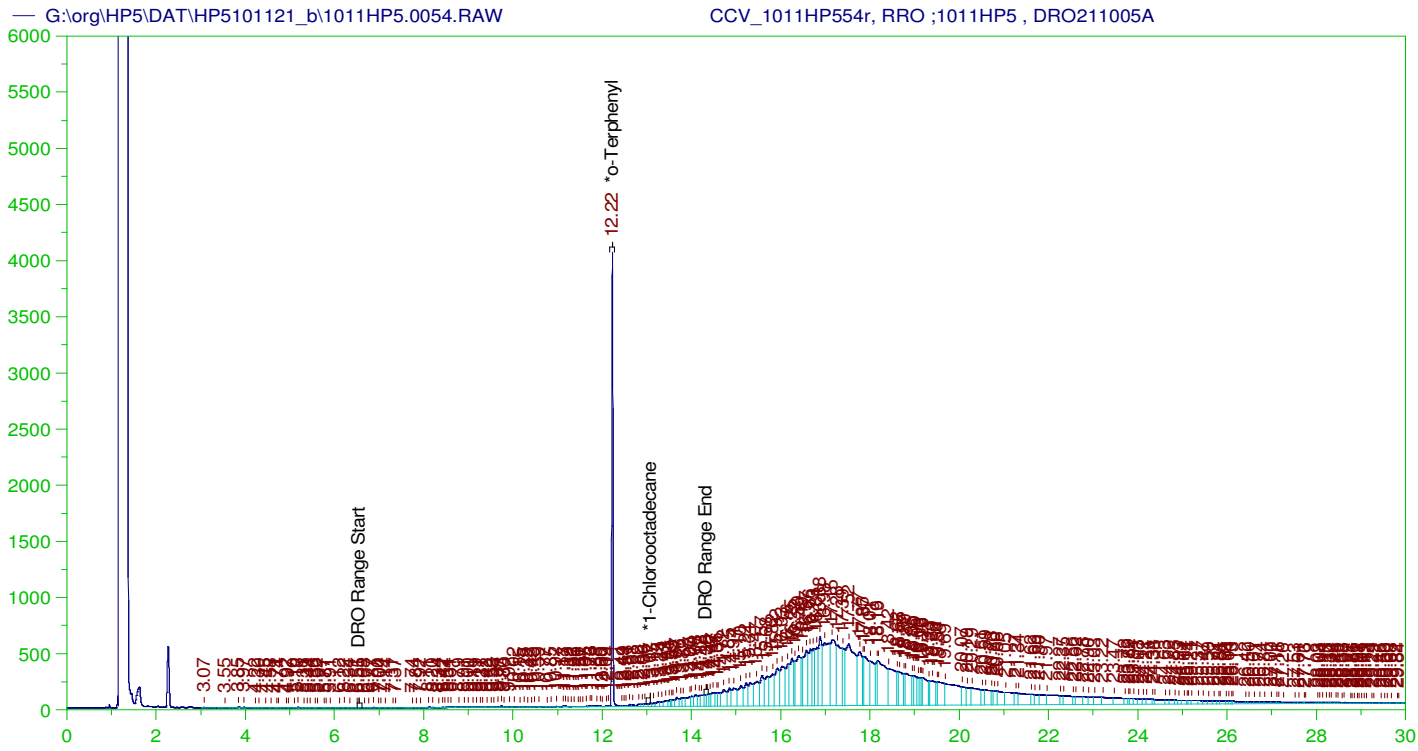



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | - |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | - |

DRO Area:6639596 DRO Amount: 232.6221
TEH (Oil Range) Area:1.431985E+08 TEH (Oil Range) Amount: 5017.043

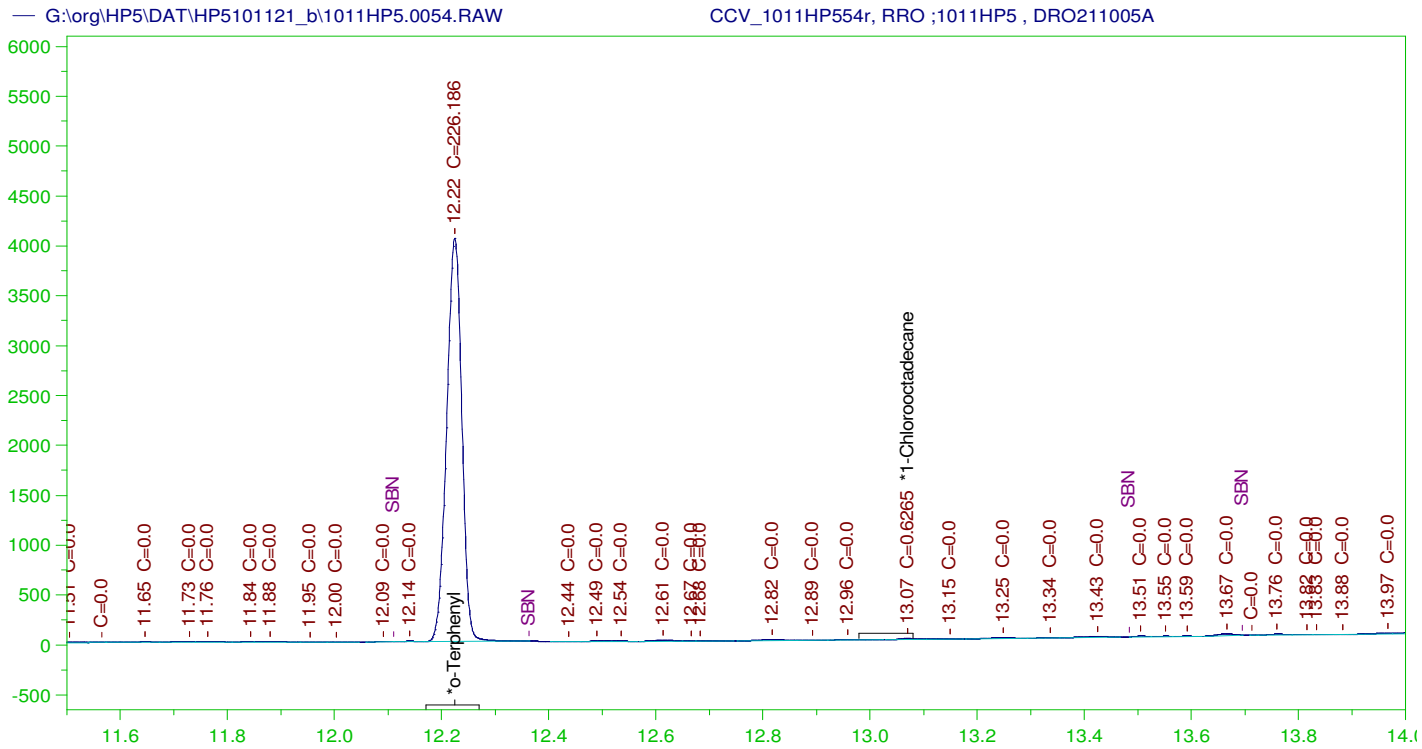
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5017.04 | 100.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | 85-115 |

AMN 10/19/2021

G:\org\HP5\dat\HP5101121_b\Review\054_CCV_1011HP554r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | - |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | - |

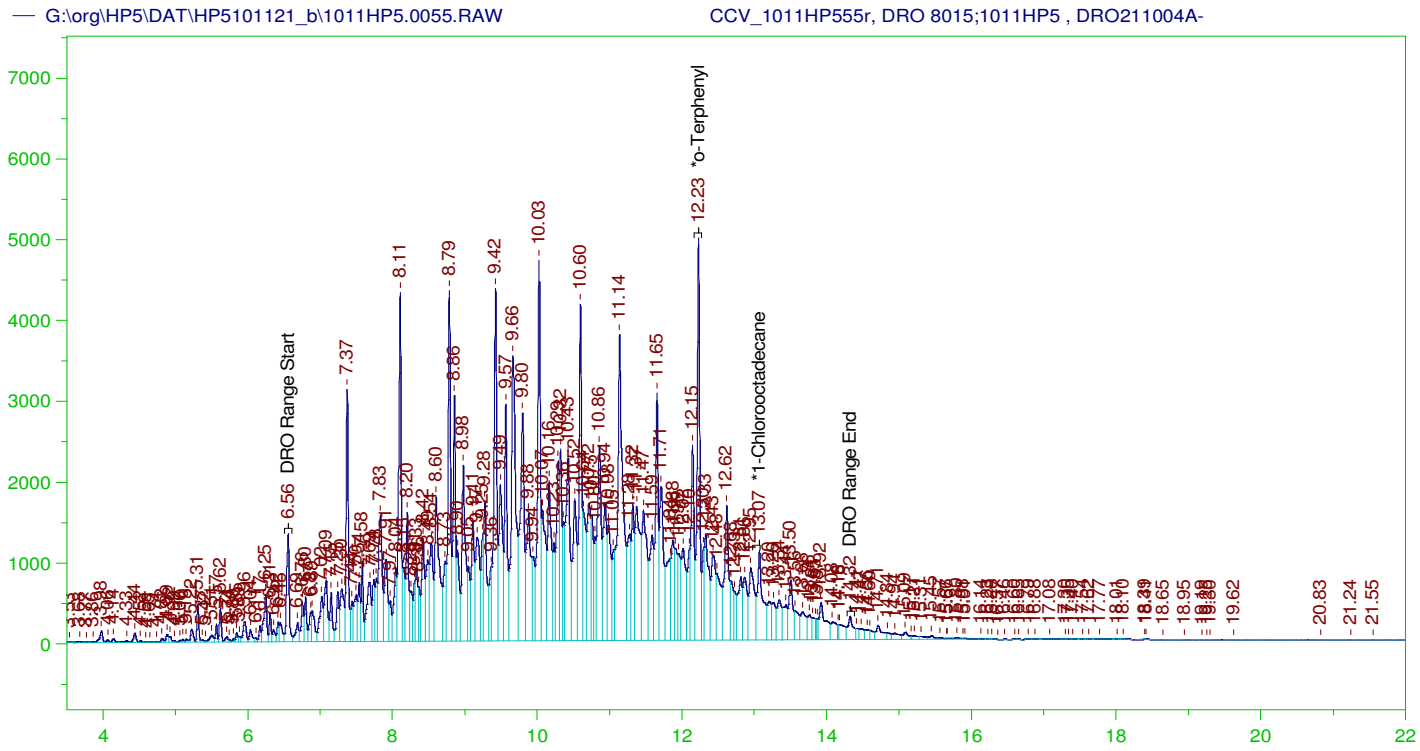
DRO Area:914620.3 DRO Amount: 32.04426
TEH Area:2179492 TEH Amount: 76.35976

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 76.36 | 1.53 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\054_CCV_1011HP554r_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | - |

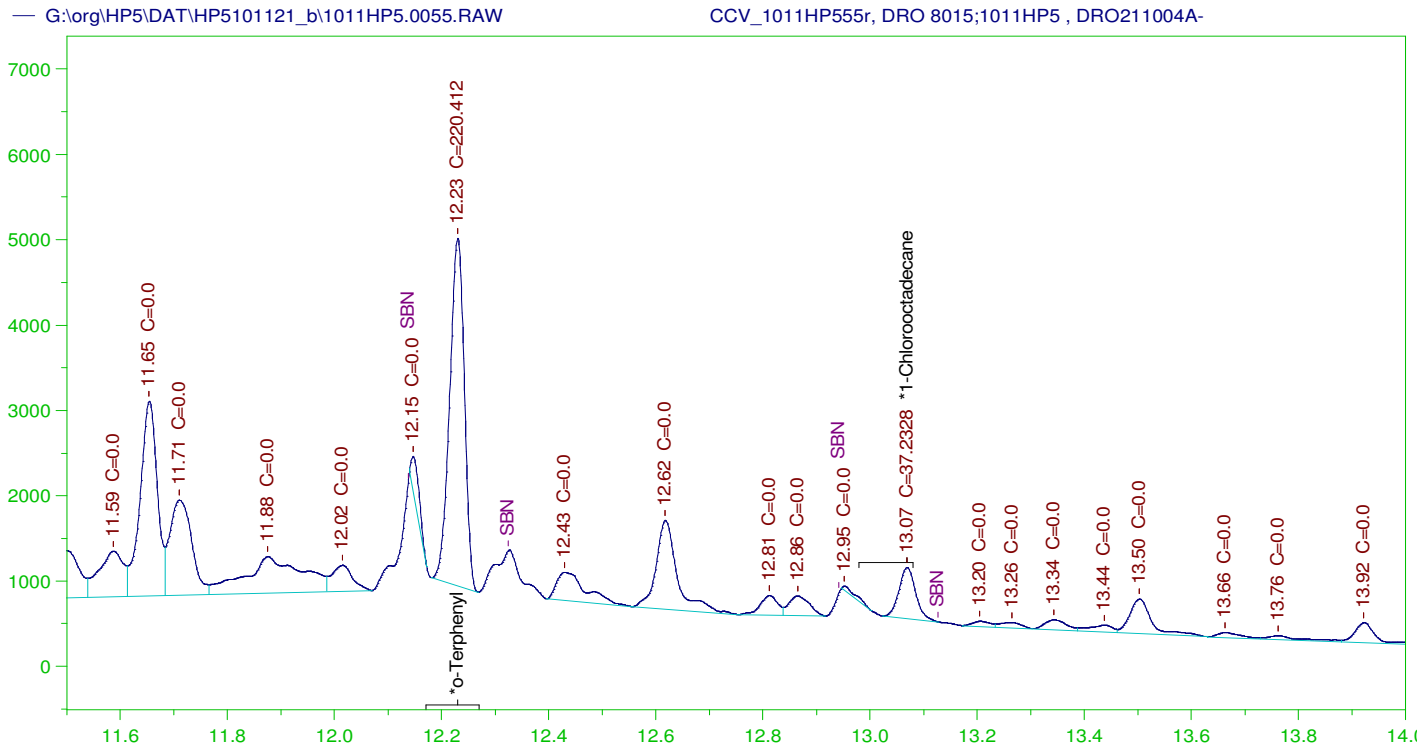
DRO Area:4.653271E+08 DRO Amount: 15796.65
TEH Area:4.819167E+08 TEH Amount: 16359.82

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16359.82 | 109.07 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\055_CCV_1011HP555r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | - |

DRO Area:2.582346E+08 DRO Amount: 8766.394
TEH Area:2.681562E+08 TEH Amount: 9103.206

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9103.21 | 60.69 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\055_CCV_1011HP555r_DS_8015-HS-L#.xls

Write Sequence | Insert Entries(Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | **Manual Integrations** |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.09r | DCM-Baseline Check-V09 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.10r | MARKER_1011HP510r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.11r | MARKER_1011HP511r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.12r | CCV_1011HP512r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.13r | CCV_1011HP513r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.15r | LCS-160178 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Peak width adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.16r | MB-160178 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.17r | B2100756-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1045 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.18r | B2100806-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.19r | B2100806-002A ;1011HP5 , $HC-8015-DRO-W, NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1055 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.20r | B2100806-002A ;1011HP5 , $HC-8015-DRO-W, NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1050 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.21r | DCM-Baseline Check-V21 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.22r | B2100806-004A ;1011HP5 , $HC-8015-DRO-W, NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1050 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.23r | MARKER_1011HP523r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.24r | MARKER_1011HP524r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.25r | CCV_1011HP525r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.26r | CCV_1011HP526r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.28r | B2100806-005A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101128-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1060 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Flip + at 2.62 Flip - at 2.75, set baseline at 24.46.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.30r | B2100806-006A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.31r | B2100806-007A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.32r | B2100806-004A ;1011HP5 , $HC-8015-DRO-W, RR | G:\Org\HP5\Methods\DR_8015-101132-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-101132-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Set baseline at 23.83.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.33r | B2100806-002A ;1011HP5 , $HC-8015-DRO-W, RR | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Peak Width adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.34r | DCM-Baseline Check-V34 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.35r | DCM-Baseline Check-V35 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.36r | B2100806-003A ;1011HP5 , $HC-8015-DRO-W, RR | G:\Org\HP5\Methods\D3_8015-101136-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Peak Width adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.37r | DCM-Baseline Check-V37 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.38r | MARKER_1011HP538r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.39r | MARKER_1011HP539r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.40r | CCV_1011HP540r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.41r | CCV_1011HP541r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.42r | DCM-Baseline Check-V42 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.43r | LCS-160178-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-101143-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Peak width was adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.44r | DCM-Baseline Check-V44 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.45r | B2100806-002AMS-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Peak width was adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.46r | DCM-Baseline Check-V46 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.47r | B2100806-002AMSD-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Peak width was adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.48r | DCM-Baseline Check-V48 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.49r | B2100806-001AMS ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.50r | DCM-Baseline Check-V50 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.51r | B2100806-001AMSD ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.19 15:44:10 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*07-May-21*

**Run ID** GCFID-HP5-B_210108B

| | |
|---|---|
| **Run Start Date:** | 1/8/2021 |
| **Analyst:** | Ann Nebel |
| **Ical:** | |
| **Column ID:** | |
| **Comments:** | NEW ICAL<br>SW8015C_DRO210108HA.CAL |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CALS | 12/31/2021 |
| DRO201210A | #2 Diesel in Acetone 150,000 ug/mL | | | | | SECOND S | 6/10/2021 |
| DRO210105B | EPH (4) SURR-1000 ug/mL ea. in Hexane | | | | | SURRS | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154799 | CCV_0108HP51 | HC-8015-DRO- | CAL1 | | 1/8/2021 2:21:25 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1350772 | | 0.15 | 0 | 0 | 0.0499 | 0.3 | 50 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154800 | CCV_0108HP51 | HC-8015-DRO- | CAL2 | | 1/8/2021 3:03:30 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.865478 | | 3.75 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154801 | CCV_0108HP51 | HC-8015-DRO- | CAL3 | | 1/8/2021 3:45:32 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.3786 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154802 | CCV_0108HP51 | HC-8015-DRO- | CAL4 | | 1/8/2021 4:27:38 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 39.10215 | | 37.5 | 0 | 0 | 0.0499 | 0.3 | 50 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154803 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 5:09:49 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 50.03634 | | 50 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154804 | CCV_0108HP50 | HC-8015-DRO- | CAL1 | | 1/8/2021 5:52:15 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00201784 | | 0.002 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154805 | CCV_0108HP50 | HC-8015-DRO- | CAL2 | | 1/8/2021 6:34:45 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04980491 | | 0.05 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154806 | CCV_0108HP50 | HC-8015-DRO- | CAL3 | | 1/8/2021 7:17:18 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2027571 | | 0.2 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154807 | CCV_0108HP50 | HC-8015-DRO- | CAL4 | | 1/8/2021 7:59:52 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.4989882 | | 0.5 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154808 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 8:42:33 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.9852039 | | 1 | 0 | 0 | 0.000327 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154809 | CCV_0108HP51 | HC-8015-DRO- | ICV | | 1/8/2021 9:25:08 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 14.94195 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Version: 6

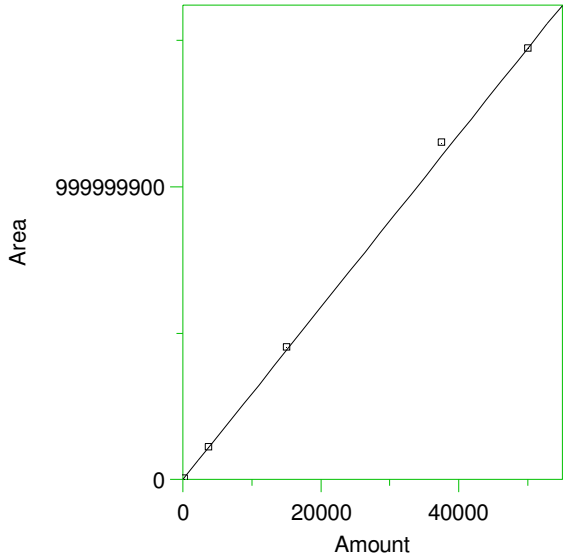
Creator: AMN 1/11/2021
Description: DRO-8015C. New ICal Per 0108HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.82 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

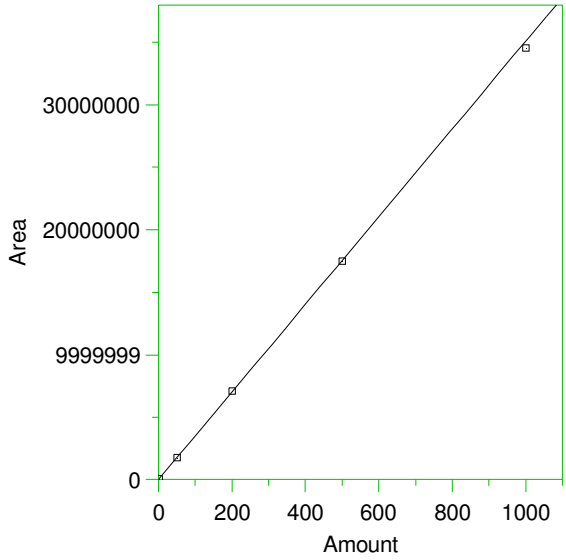
Y = 29457.33 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9985872 |
| Average error: | 3.979% |
| Average CF: | 29457.33 |
| RSD: | 5.768% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3979014 | 26526.76 | -9.949 | Manual | 1/11/2021 9:46:00 AM |
| 2 | 3750 | 1.138667E+08 | 30364.46 | 3.079 | Manual | 1/11/2021 9:46:09 AM |
| 3 | 15000 | 4.530125E+08 | 30200.83 | 2.524 | Manual | 1/11/2021 9:46:18 AM |
| 4 | 37500 | 1.151845E+09 | 30715.87 | 4.272 | Manual | 1/11/2021 9:46:27 AM |
| 5 | 50000 | 1.473937E+09 | 29478.74 | 0.073 | Manual | 1/11/2021 9:46:39 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.57 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

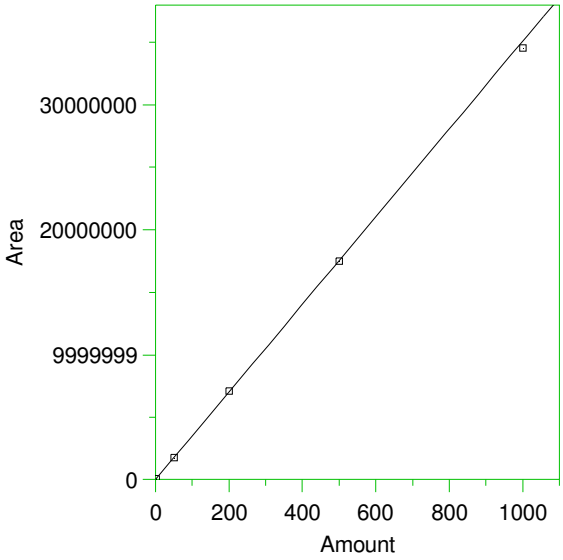
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.36 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

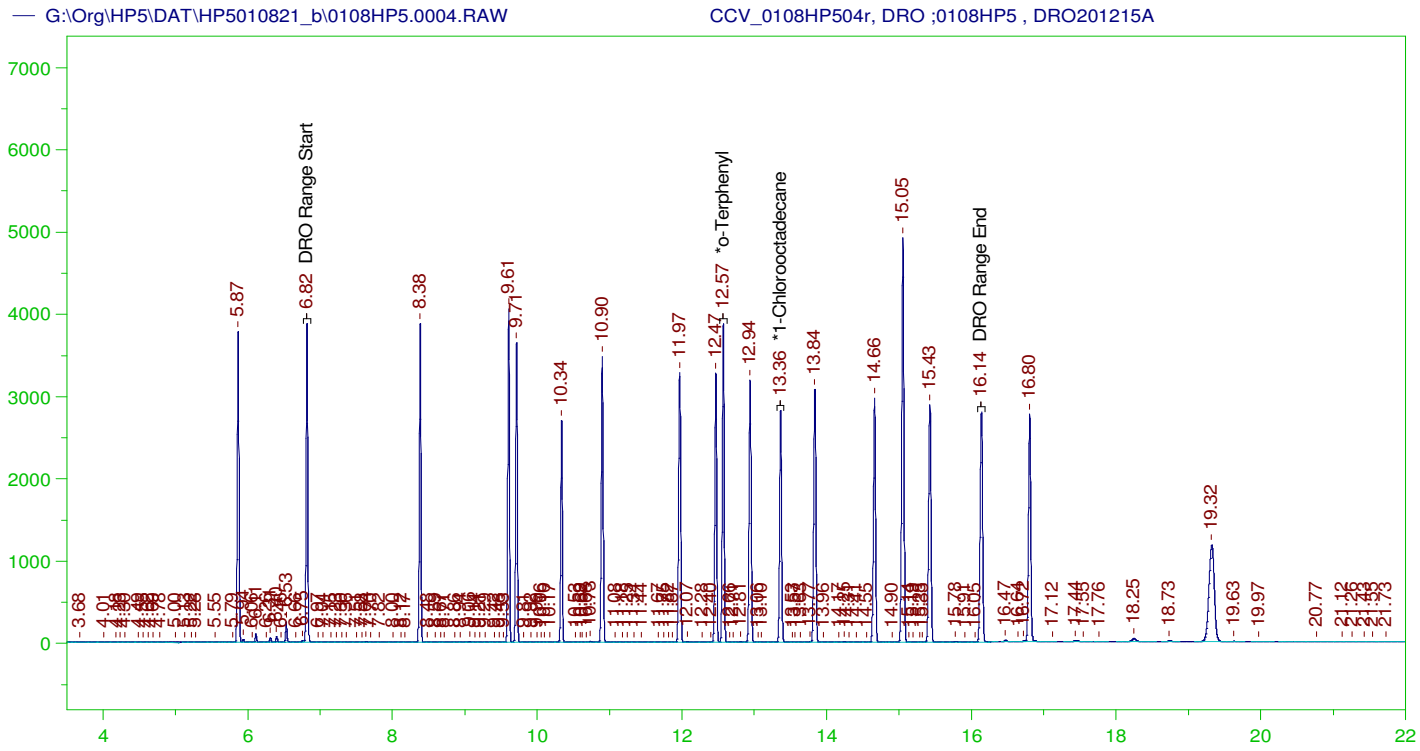
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP504r, DRO ;0108HP5 , DRO201215A
Raw File: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW
Date & Time Acquired: 1/8/2021 12:47:29 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | - |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | - |

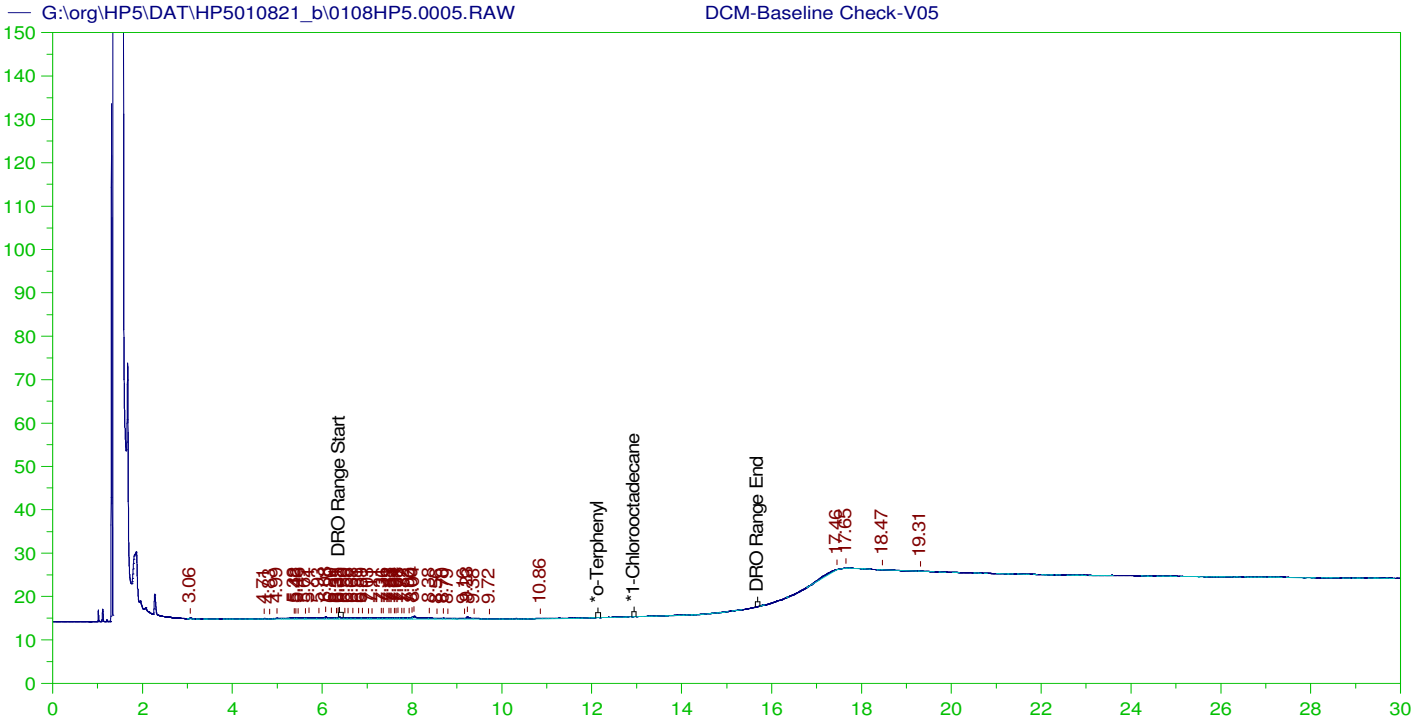
DRO Area:8.880706E+07 DRO Amount: 3014.77
TEH Area:1.082932E+08 TEH Amount: 3676.273

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3676.27 | 24.51 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | 85-115 |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\004_CCV_0108HP504r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

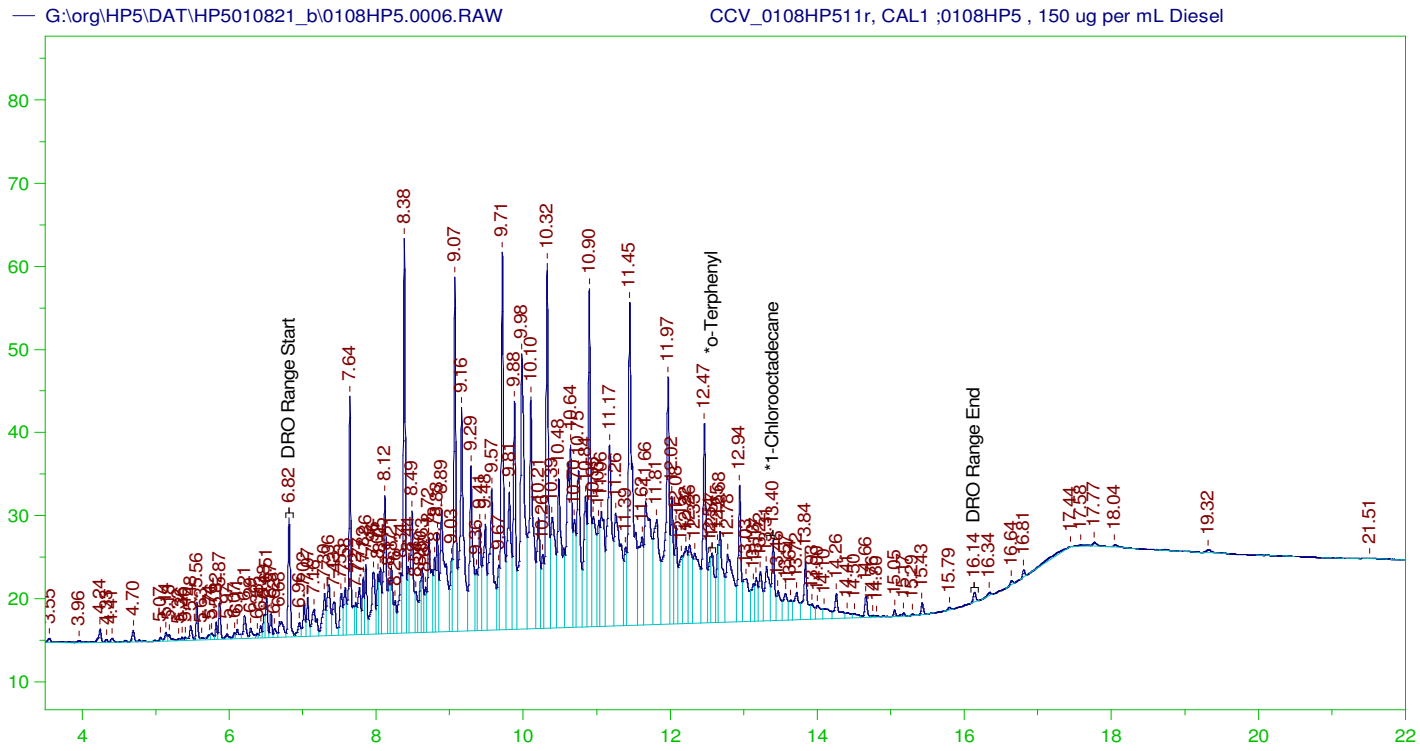
Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0005.RAW
Date & Time Acquired: 1/8/2021 1:29:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-GX-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO200123GX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28963.21
Rt range for Diesel Range Organics: 6.36 to 15.74

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.787 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.787 | 200. | . | . | - |

DRO Area:48911.73 DRO Amount: 1.688754
TEH Area:90991.55 TEH Amount: 3.141625

G:\org\HP5\dat\HP5010821_b\Review\005_DCM-Baseline Chec_DR_8015-GX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW
Date & Time Acquired: 1/8/2021 2:21:25 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | - |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | - |

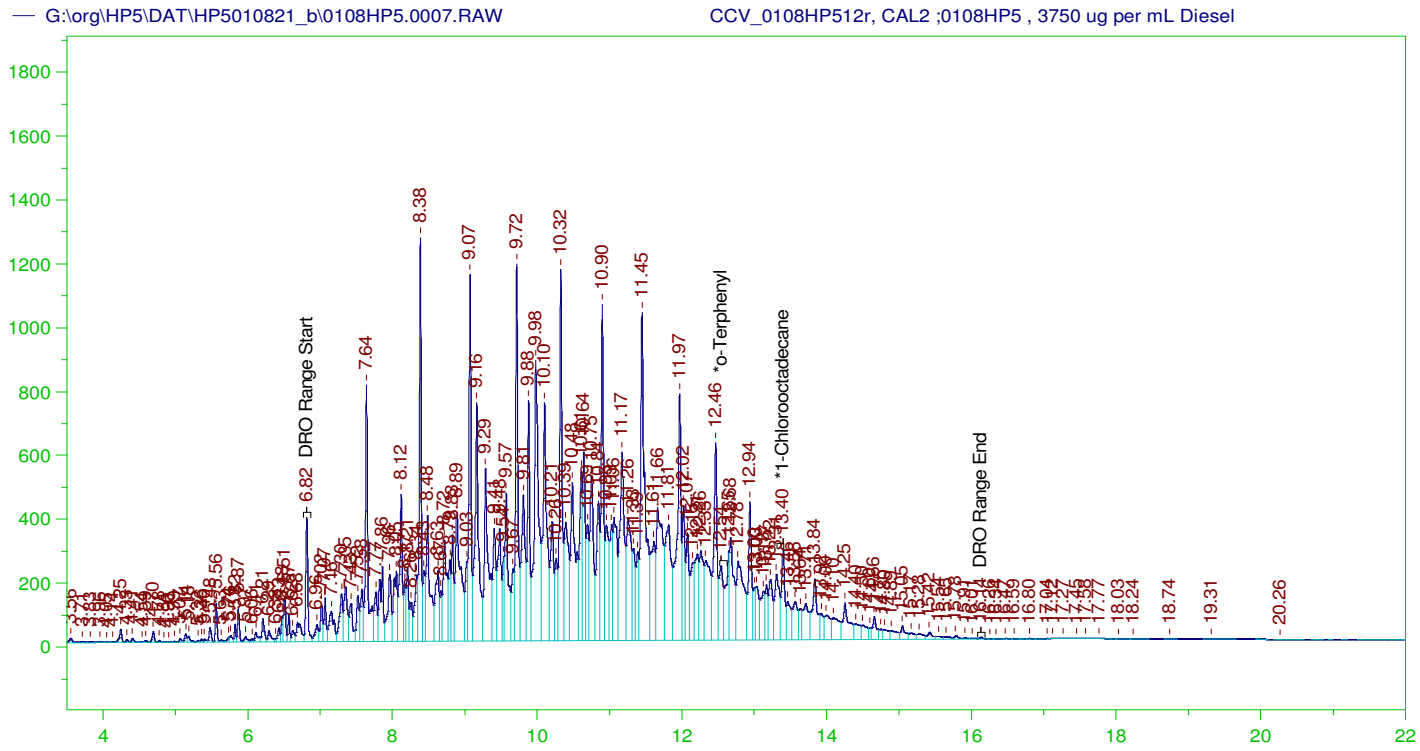
DRO Area:3854036 DRO Amount: 130.8345
TEH Area:3979014 TEH Amount: 135.0772

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 135.08 | .9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | 85-115 |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\006_CCV_0108HP511r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW
Date & Time Acquired: 1/8/2021 3:03:30 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | - |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | - |

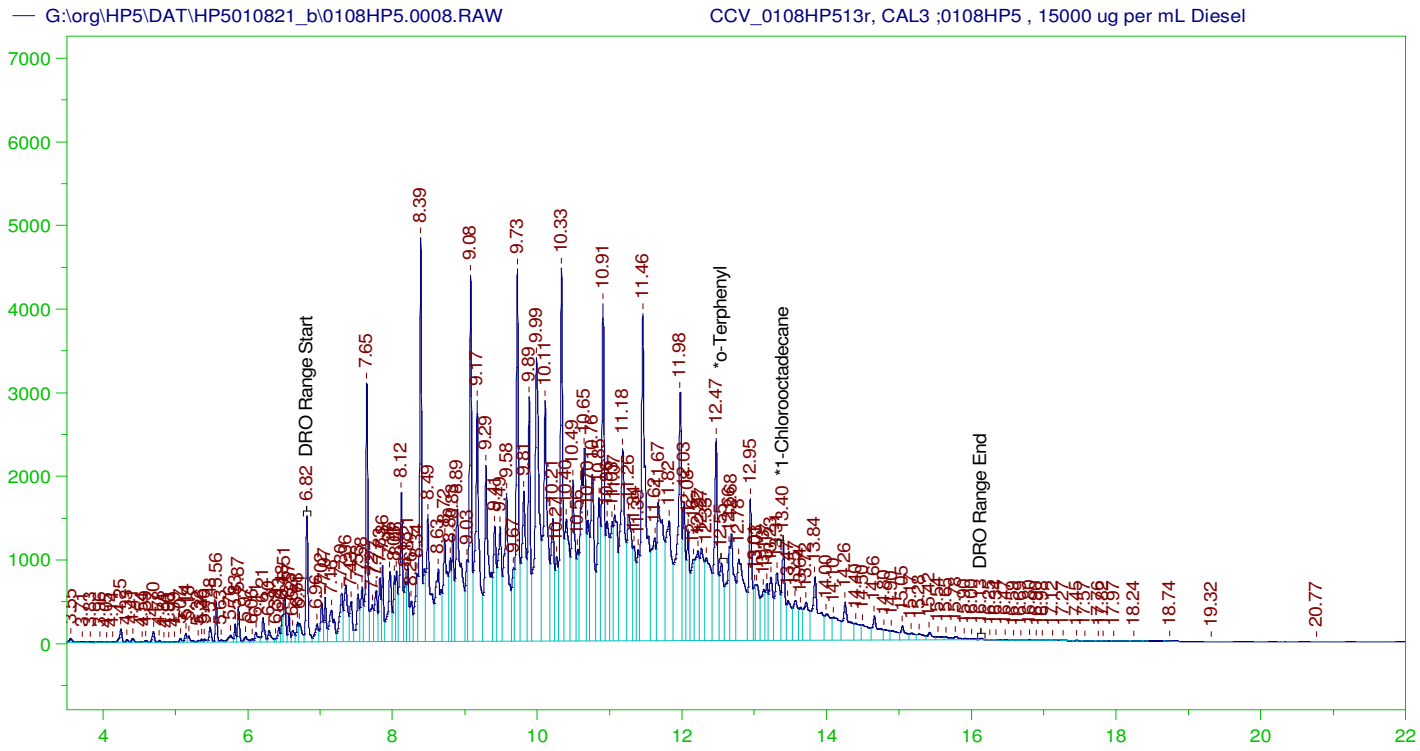
DRO Area:1.111179E+08 DRO Amount: 3772.164
TEH Area:1.138667E+08 TEH Amount: 3865.478

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3865.48 | 25.77 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | 85-115 |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\007_CCV_0108HP512r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW
Date & Time Acquired: 1/8/2021 3:45:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | - |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | - |

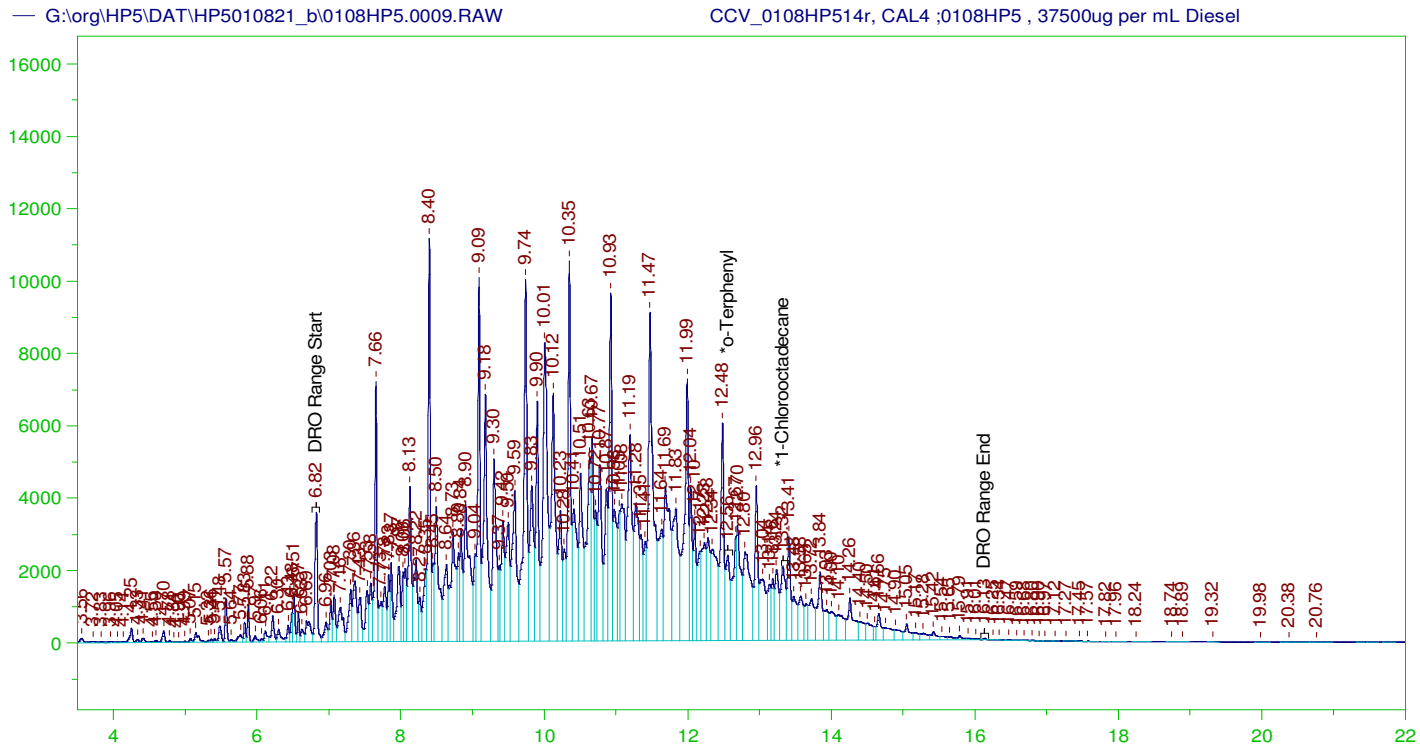
DRO Area:4.420163E+08 DRO Amount: 15005.31
TEH Area:4.530125E+08 TEH Amount: 15378.6

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15378.6 | 102.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | 85-115 |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\008_CCV_0108HP513r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW
Date & Time Acquired: 1/8/2021 4:27:38 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | - |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | - |

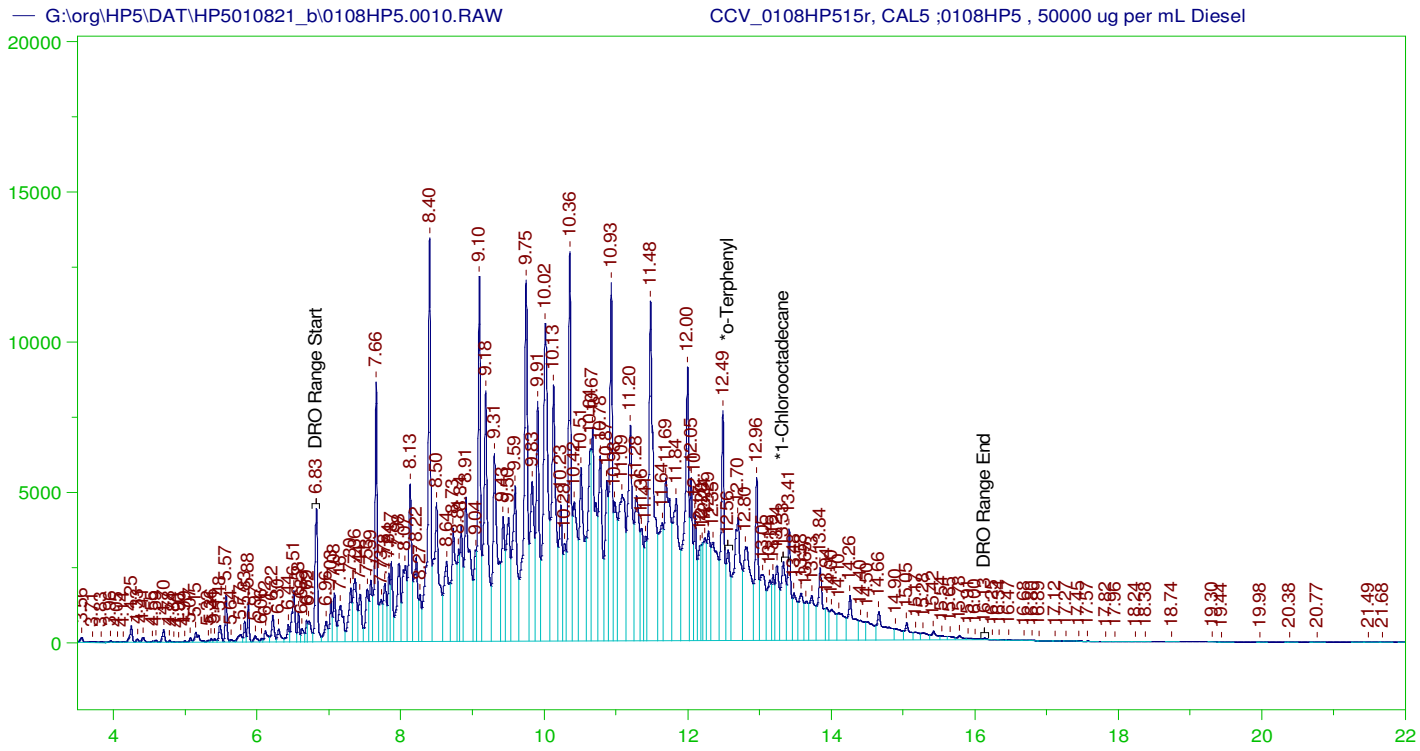
DRO Area:1.1239E+09 DRO Amount: 38153.5
TEH Area:1.151845E+09 TEH Amount: 39102.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39102.15 | 260.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | 85-115 |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\009_CCV_0108HP514r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW
Date & Time Acquired: 1/8/2021 5:09:49 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | - |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | - |

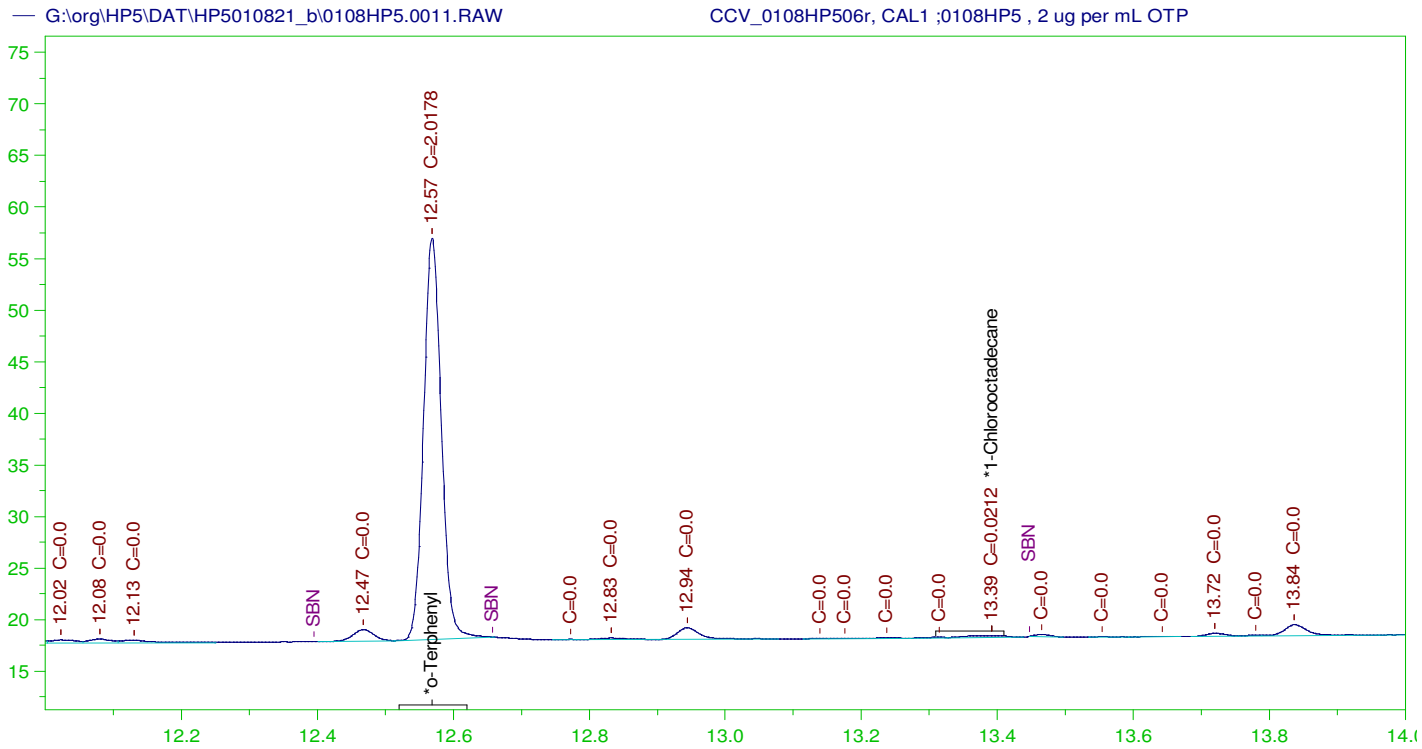
DRO Area:1.438162E+09 DRO Amount: 48821.87
TEH Area:1.473937E+09 TEH Amount: 50036.34

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 50036.34 | 333.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | 85-115 |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\010_CCV_0108HP515r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW
Date & Time Acquired: 1/8/2021 5:52:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | - |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | - |

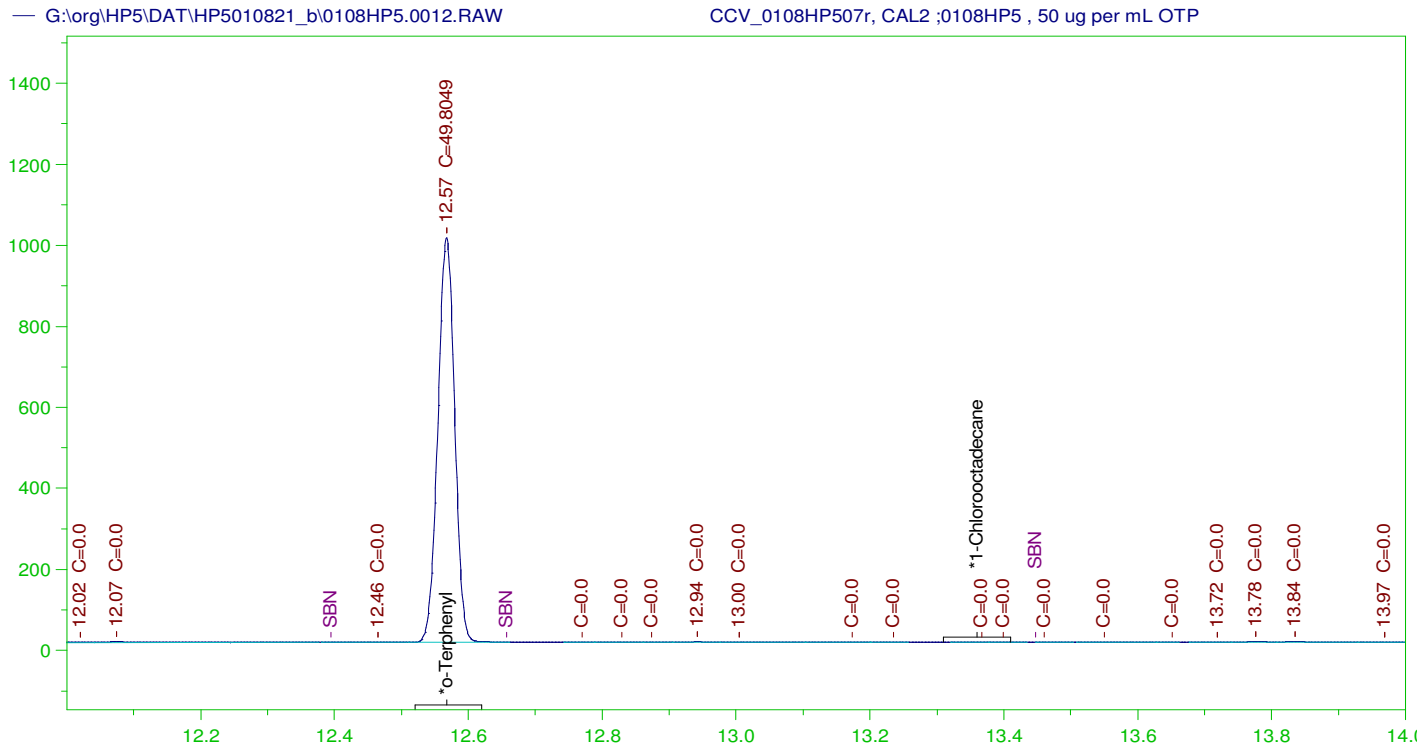
DRO Area:153898.5 DRO Amount: 5.224453
TEH Area:367701.2 TEH Amount: 12.4825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | 85-115 |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\011_CCV_0108HP506r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW
Date & Time Acquired: 1/8/2021 6:34:45 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | - |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | - |

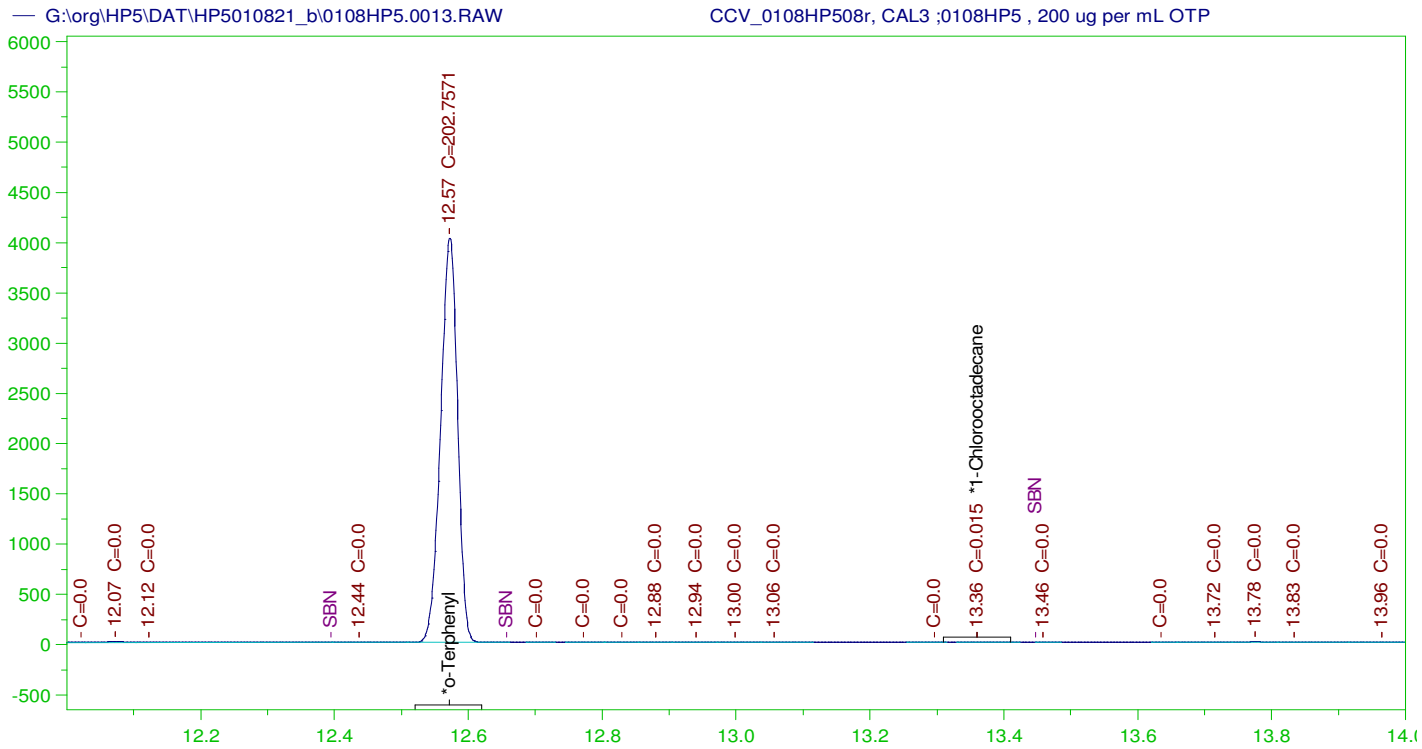
DRO Area:198540.3 DRO Amount: 6.739929
TEH Area:443484.3 TEH Amount: 15.05514

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | 85-115 |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\012_CCV_0108HP507r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW
Date & Time Acquired: 1/8/2021 7:17:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | - |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | - |

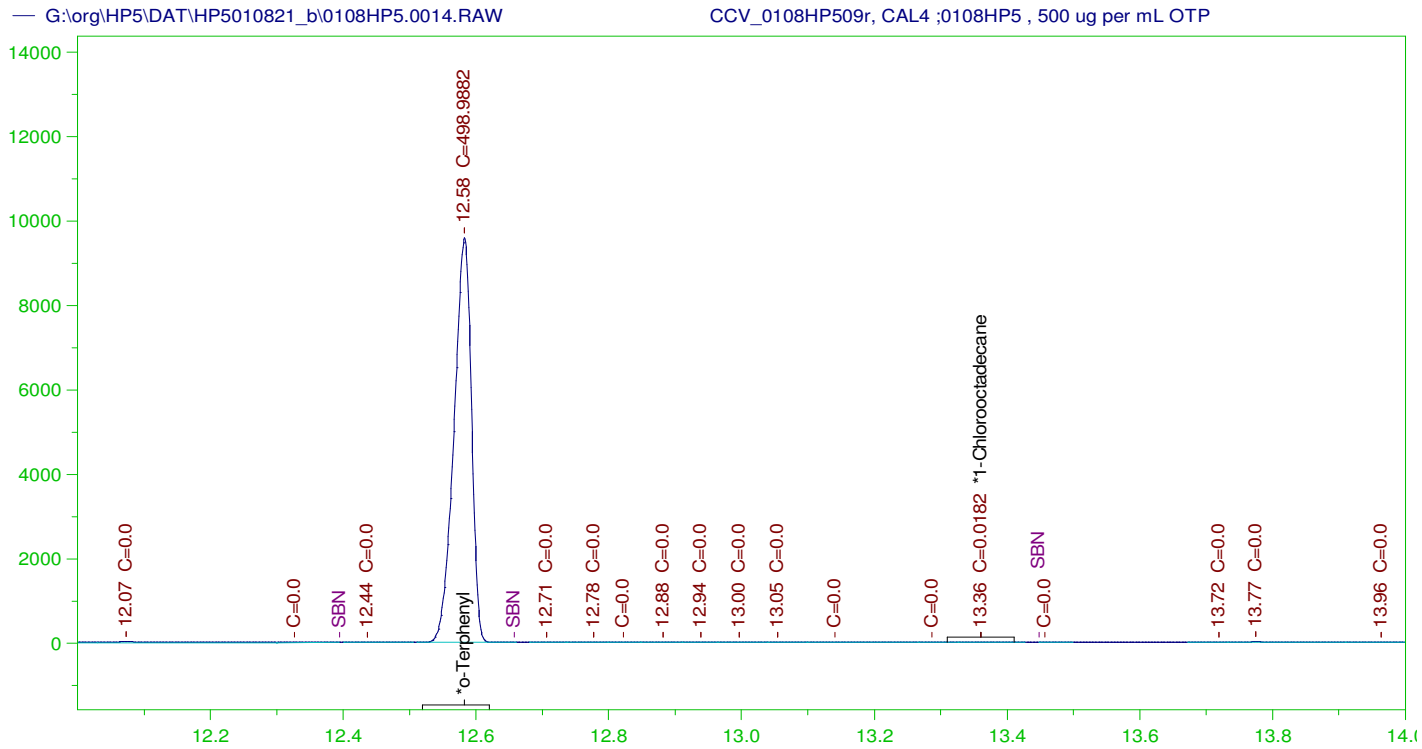
DRO Area:425468.4 DRO Amount: 14.44355
TEH Area:809202.7 TEH Amount: 27.47033

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 27.47 | .18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | 85-115 |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\013_CCV_0108HP508r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW
Date & Time Acquired: 1/8/2021 7:59:52 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | - |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | - |

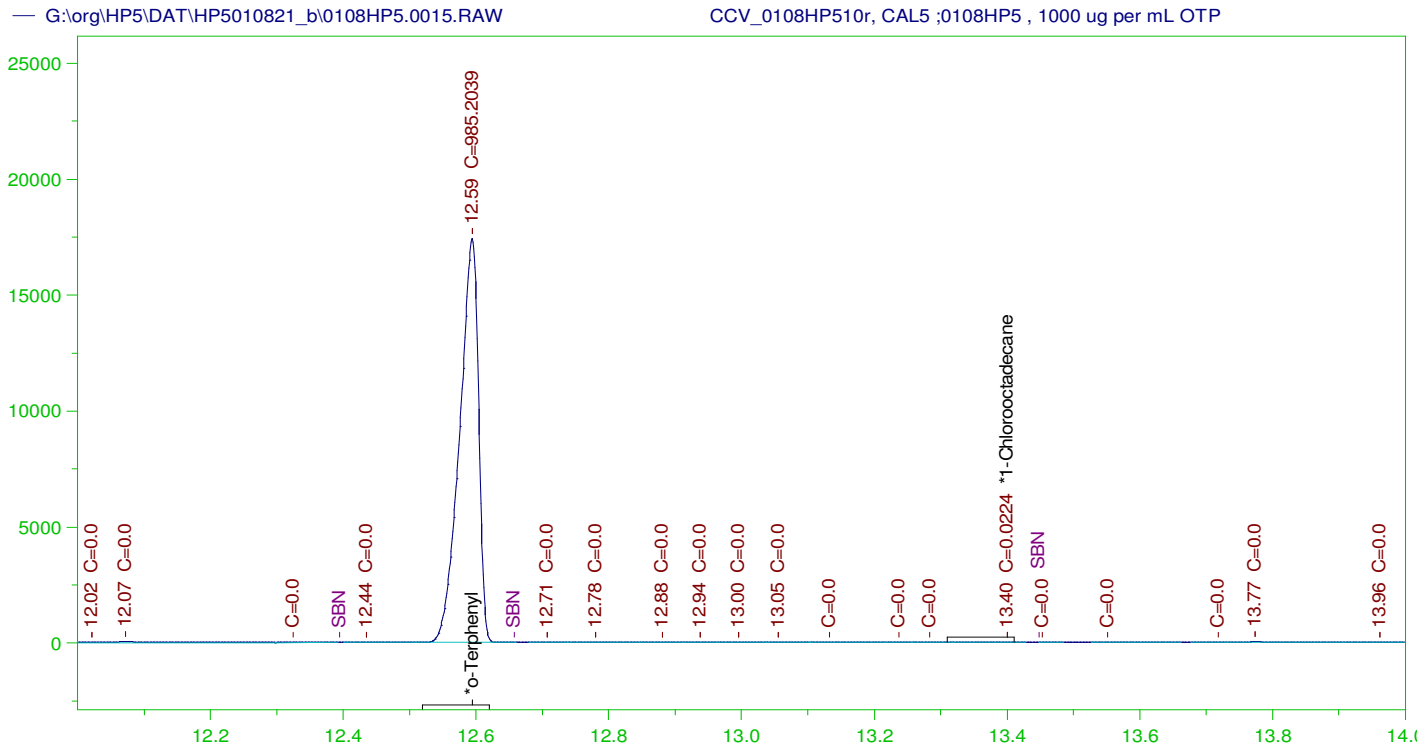
DRO Area:651862.6 DRO Amount: 22.12904
TEH Area:1164840 TEH Amount: 39.5433

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39.54 | .26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | 85-115 |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\014_CCV_0108HP509r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW
Date & Time Acquired: 1/8/2021 8:42:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | - |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | - |

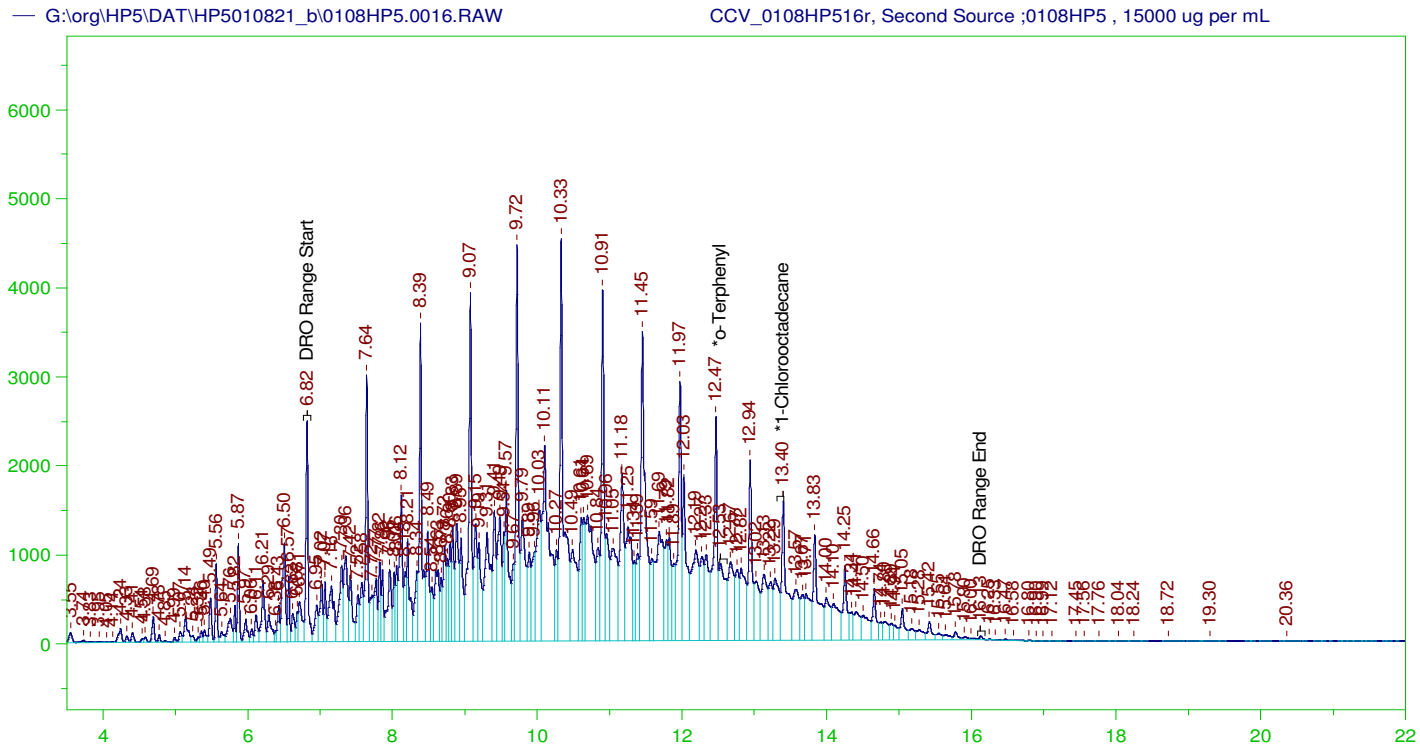
DRO Area:856596.9 DRO Amount: 29.07924
TEH Area:1371563 TEH Amount: 46.561

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 46.56 | .31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | 85-115 |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\015_CCV_0108HP510r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW
Date & Time Acquired: 1/8/2021 9:25:08 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | - |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | - |

DRO Area:4.138122E+08 DRO Amount: 14047.85
TEH Area:4.4015E+08 TEH Amount: 14941.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 14941.95 | 99.61 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | 85-115 |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\016_CCV_0108HP516r_DC_8015-HA-L%.xls

Write Sequence

Insert Entries(Have the first cell for entries selected)

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj.. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | Integration is valley to valley. Assigned Set Baseline All Valley on at 17.5. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.01.27 15:17:17 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Sep-21*

**Run ID** GCFID-HP5-B_210218B

**Run Start Date:** 2/18/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015 OIL range calibration
SW8015_OIL210218

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL | 8/31/2025 |
| DRO210204A | Carbon Scan STD | | | | | MARKER | 3/5/2028 |
| DRO210217A | 20,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | ICV | 8/23/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282665 | CCV_0218HP50 | HC-8015-DRO- | CAL1 | | 2/18/2021 12:03: | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1468323 | | 0.15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282666 | CCV_0218HP50 | HC-8015-DRO- | CAL2 | | 2/18/2021 1:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.062811 | | 1 | 0 | 0 | 0.15 | 0.3 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282667 | CCV_0218HP50 | HC-8015-DRO- | CAL3 | | 2/18/2021 2:51:0 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.035713 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282668 | CCV_0218HP50 | HC-8015-DRO- | CAL4 | | 2/18/2021 4:14:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.69295 | | 15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282669 | CCV_0218HP51 | HC-8015-DRO- | CAL5 | | 2/18/2021 5:38:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 28.20769 | | 30 | 0 | 0 | 0.15 | 0.3 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282670 | CCV_0218HP51 | HC-8015-DRO- | ICV | | 2/18/2021 8:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.474465 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 109% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Nam | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Version: 4

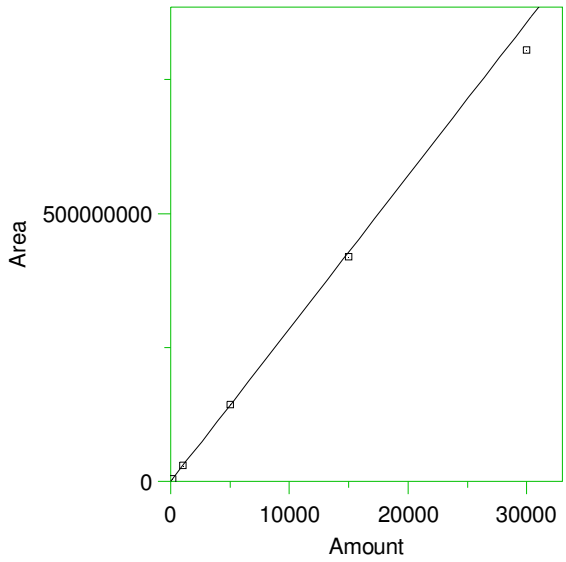
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




Expected retention time: 6.54 minutes
Search window: 0.05 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

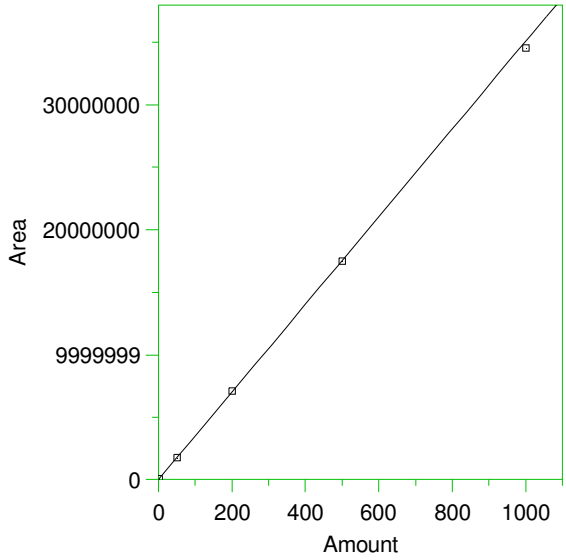
Single peak quantification by area

Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9940317
Average error: 3.209%
Average CF: 28542.41
RSD: 4.497%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 3/30/2021 11:50:57 AM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 3/30/2021 11:51:41 AM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 3/30/2021 11:52:00 AM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 3/30/2021 11:52:55 AM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 3/30/2021 11:52:32 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.14 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

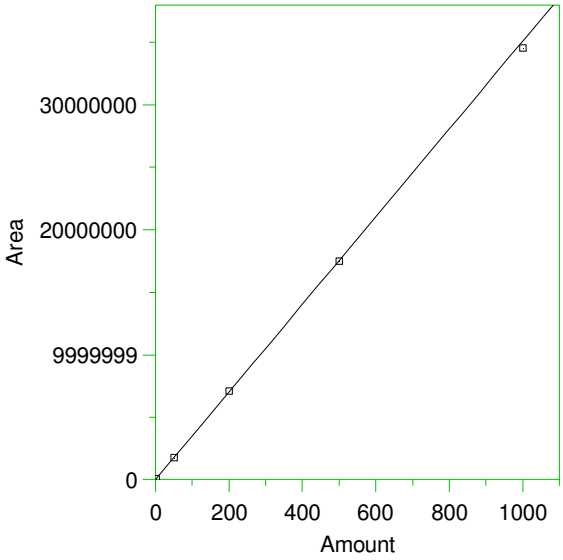
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.95 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

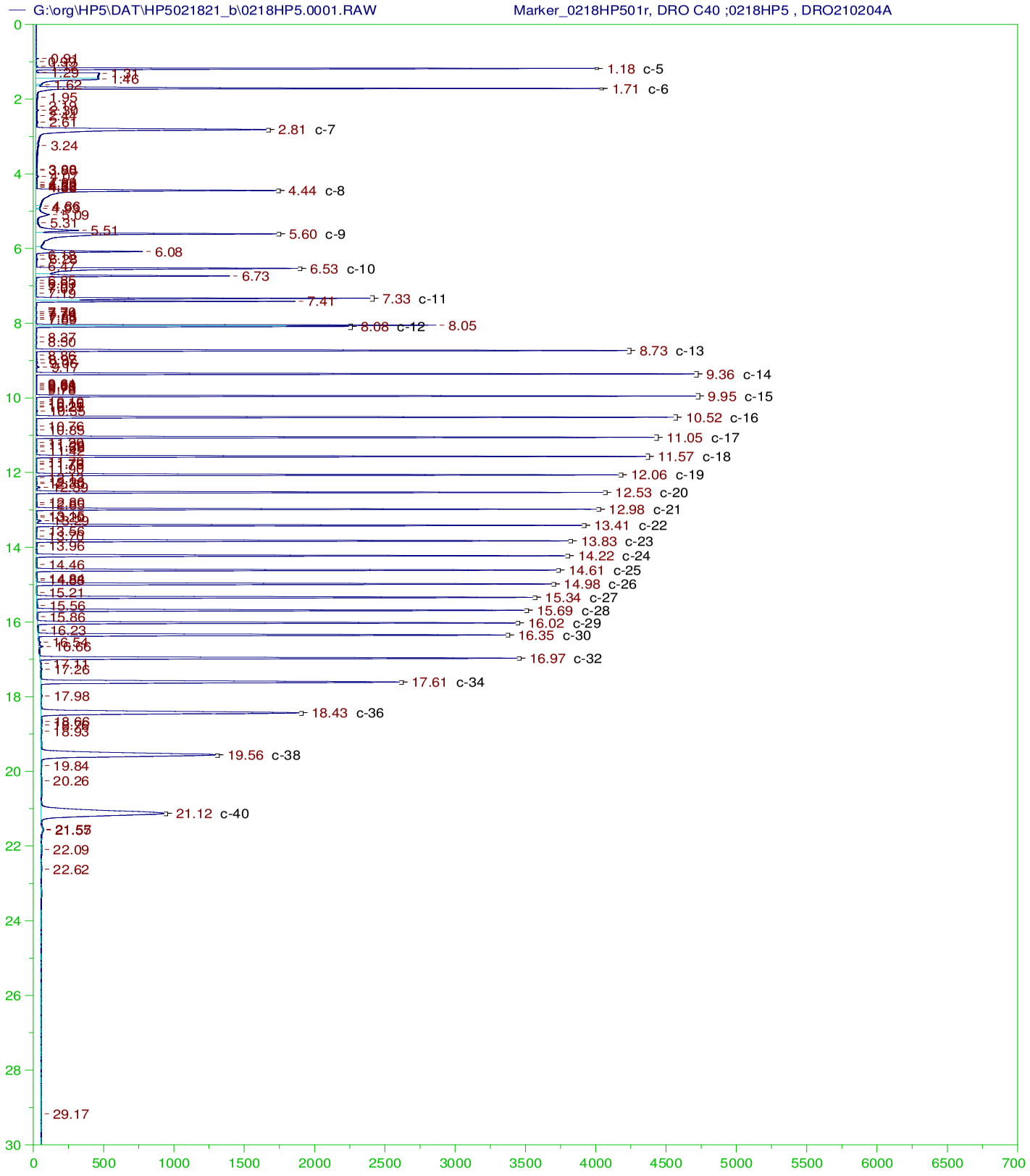
Single peak quantification by area

Y = 35071.26 X + 0

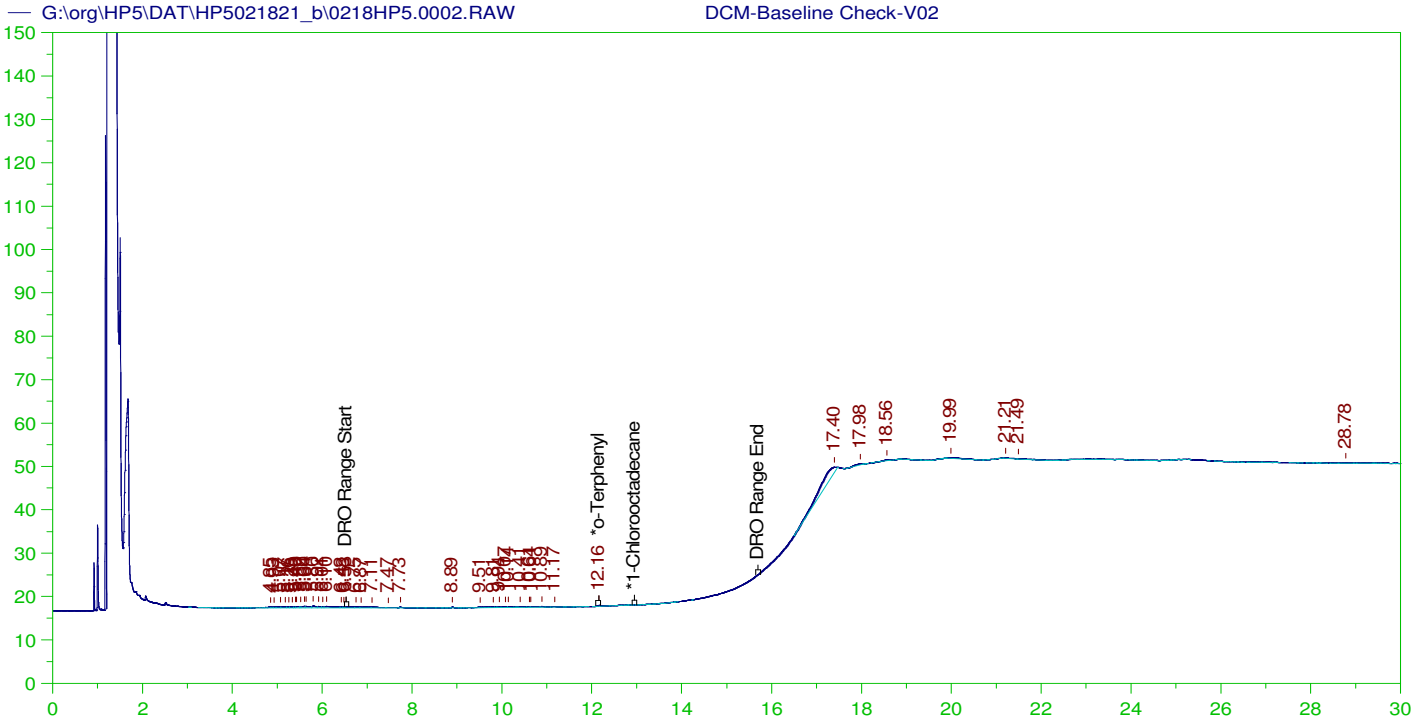
Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




G:\org\HP5\dat\HP5021821_b\Review\001_Marker_0218HP501r_CSC210212.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

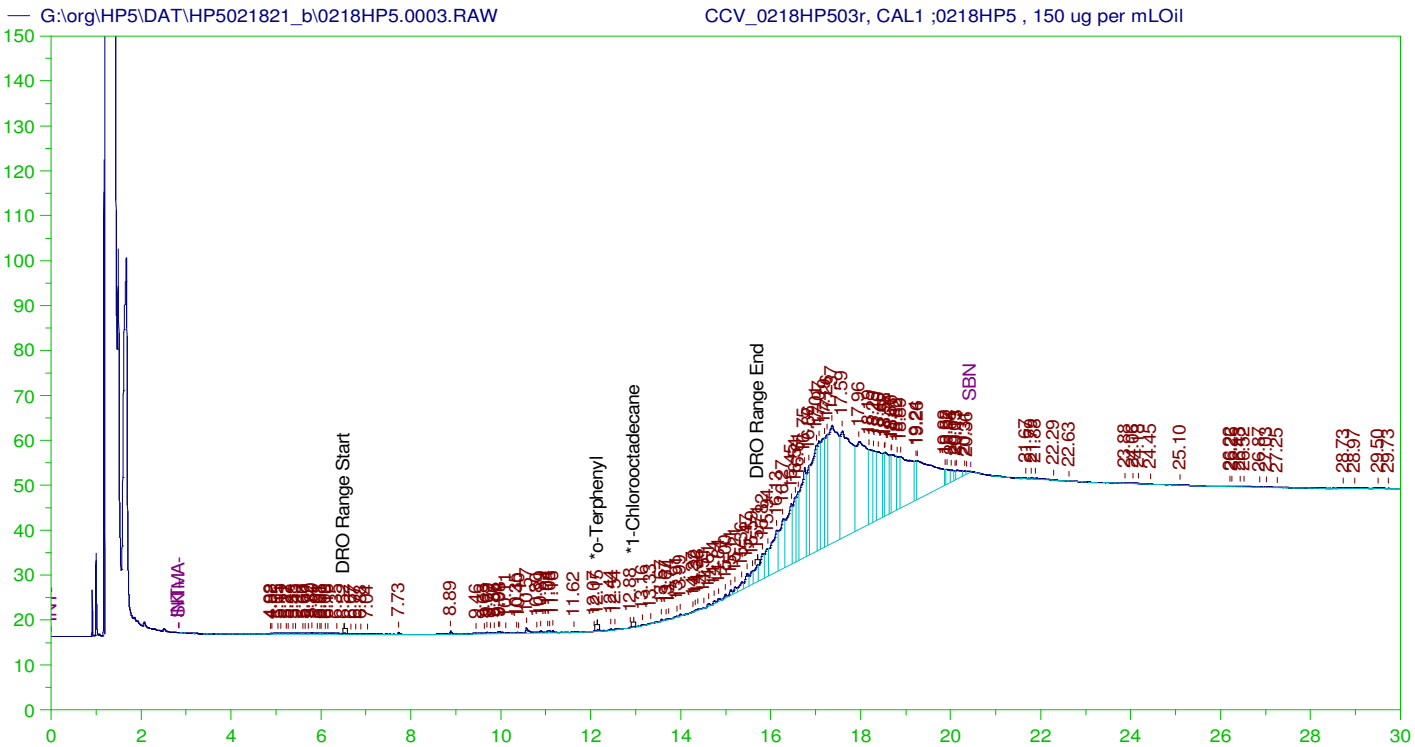
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
Date & Time Acquired: 2/18/2021 11:21:40 AM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.158 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 29.927 | 200. | . | . | - |

DRO Area:29553.31 DRO Amount: 1.003258
TEH Area:144057.3 TEH Amount: 4.890373

G:\org\HP5\dat\HP5021821_b\Review\002_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW
Date & Time Acquired: 2/18/2021 12:03:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021803-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | - |

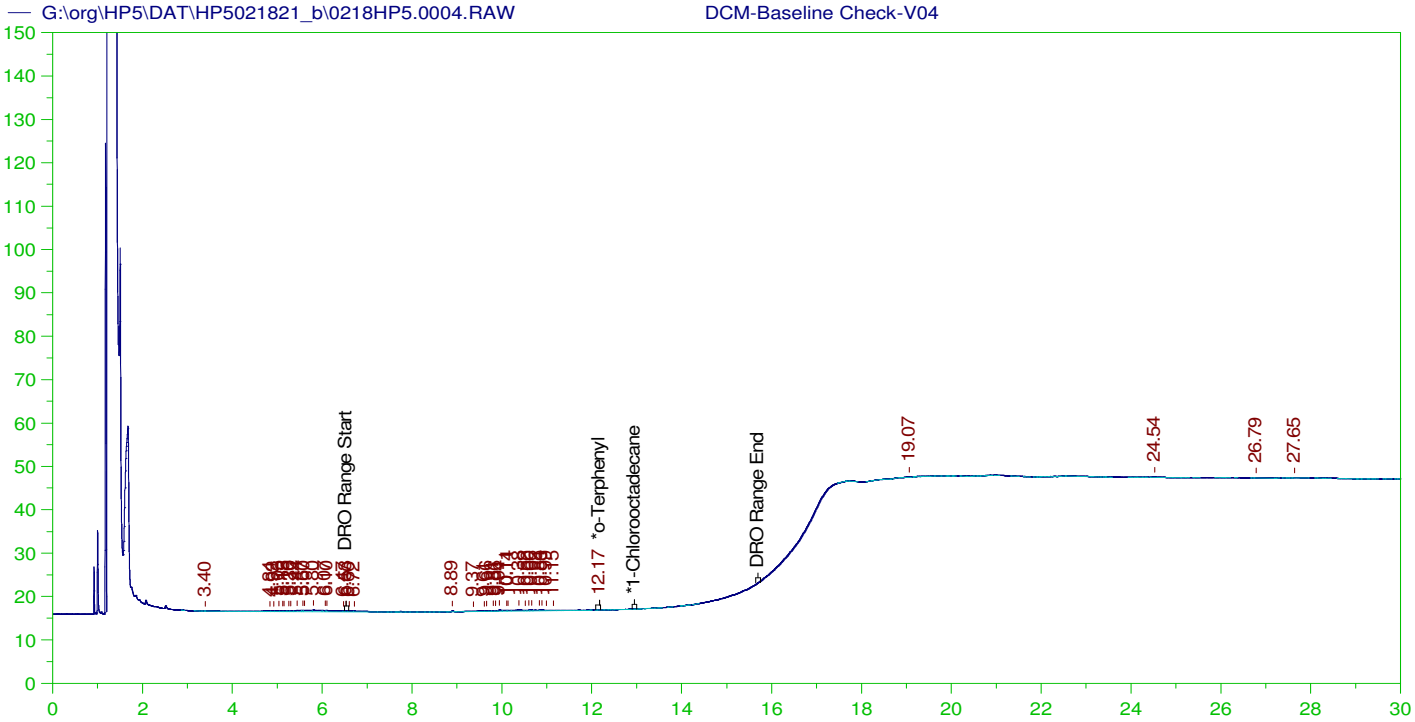
DRO Area:141843.8 DRO Amount: 4.969579
TEH Area:3766485 TEH Amount: 131.961

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 131.96 | 2.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | 85-115 |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\003_CCV_0218HP503r_DR_OIL-021803-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

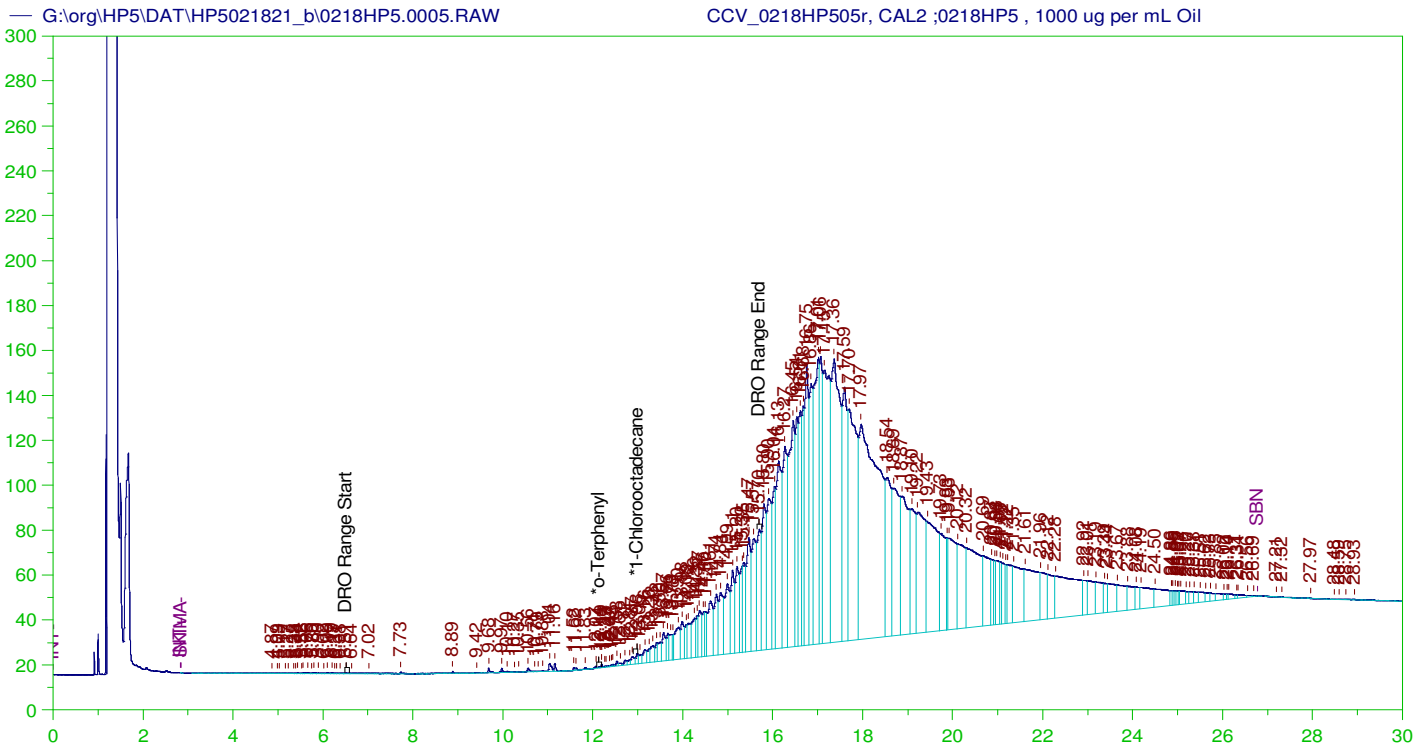
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
Date & Time Acquired: 2/18/2021 12:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.171 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.958 | 200. | . | . | - |

DRO Area:27245.38 DRO Amount: 0.9249101
TEH Area:63574.01 TEH Amount: 2.158173

G:\org\HP5\dat\HP5021821_b\Review\004_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW
Date & Time Acquired: 2/18/2021 1:27:30 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021805-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | - |

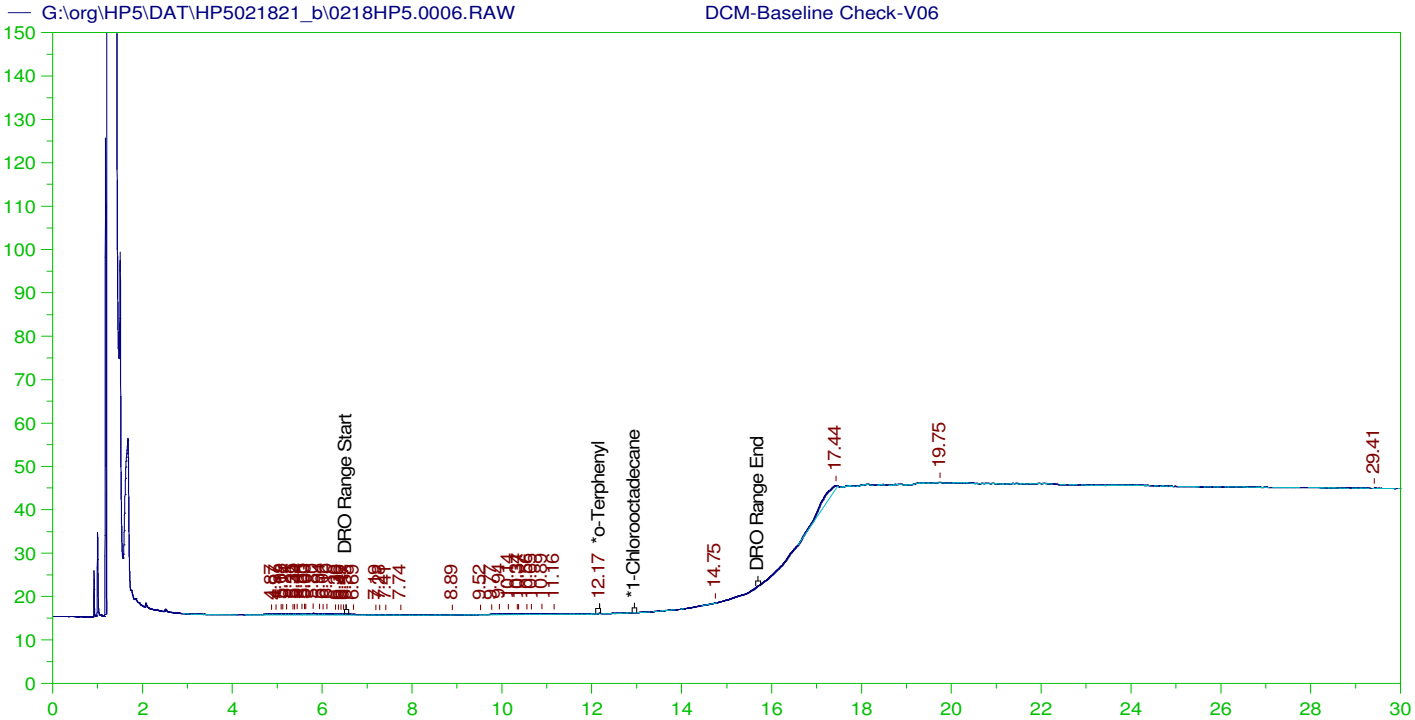
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1062.81 | 21.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | 85-115 |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\005_CCV_0218HP505r_DR_OIL-021805-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

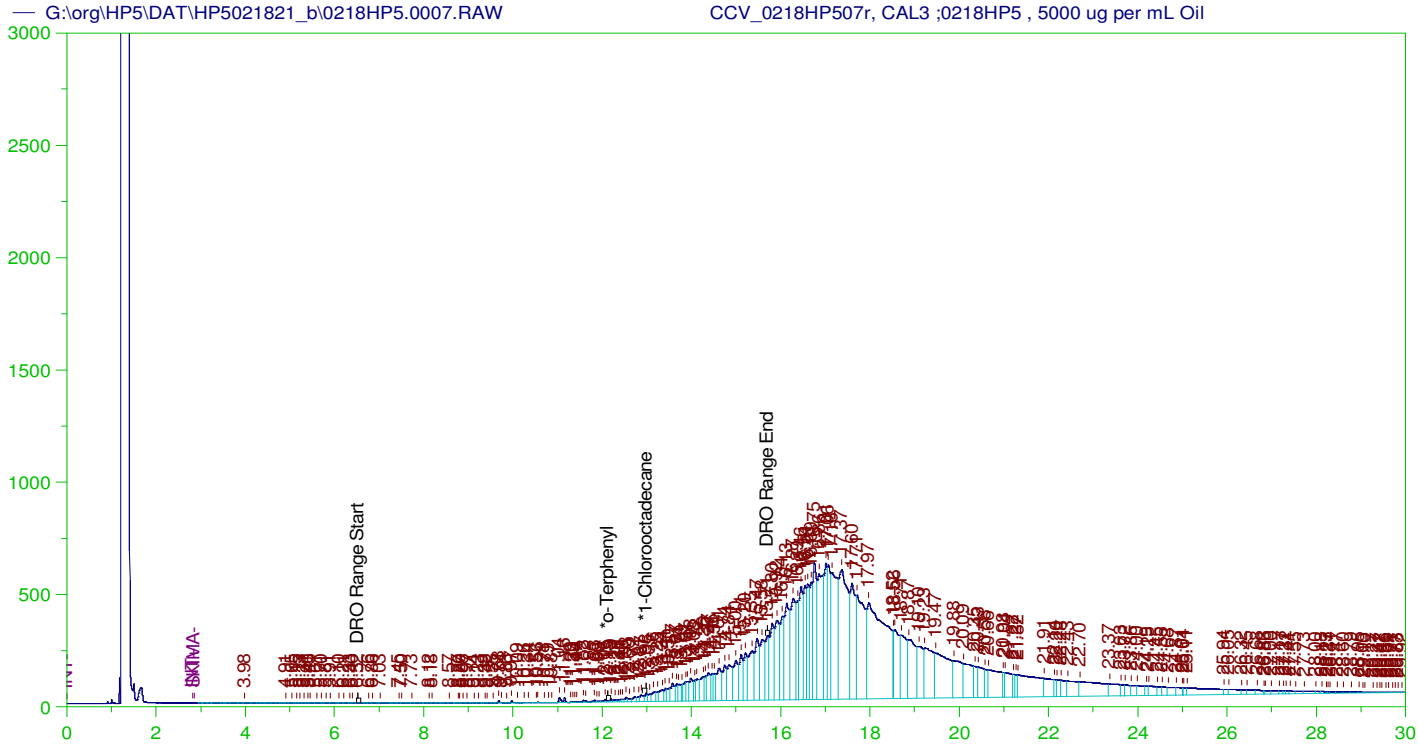
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0006.RAW
Date & Time Acquired: 2/18/2021 2:09:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:29249.25 DRO Amount: 0.9929362
TEH Area:123949.1 TEH Amount: 4.20775

G:\org\HP5\dat\HP5021821_b\Review\006_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW
Date & Time Acquired: 2/18/2021 2:51:00 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | - |

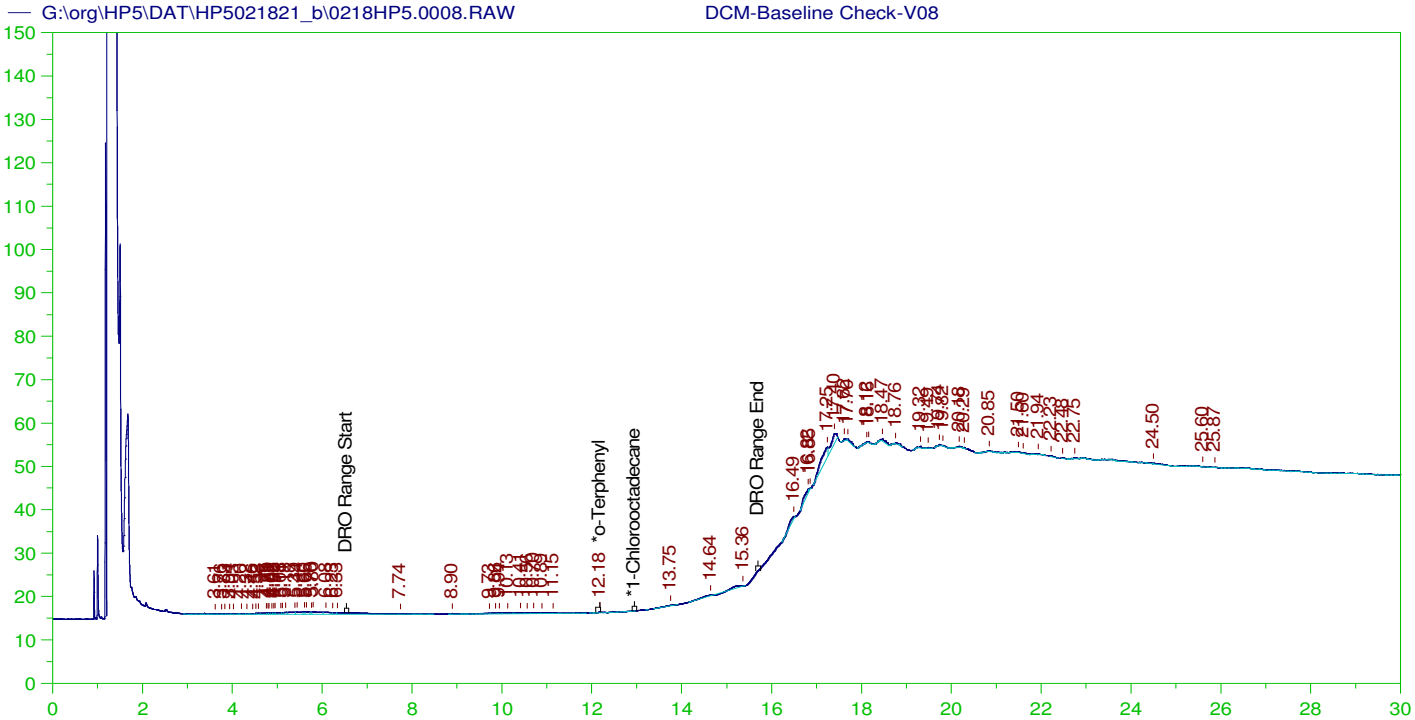
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5035.71 | 100.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\007_CCV_0218HP507r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

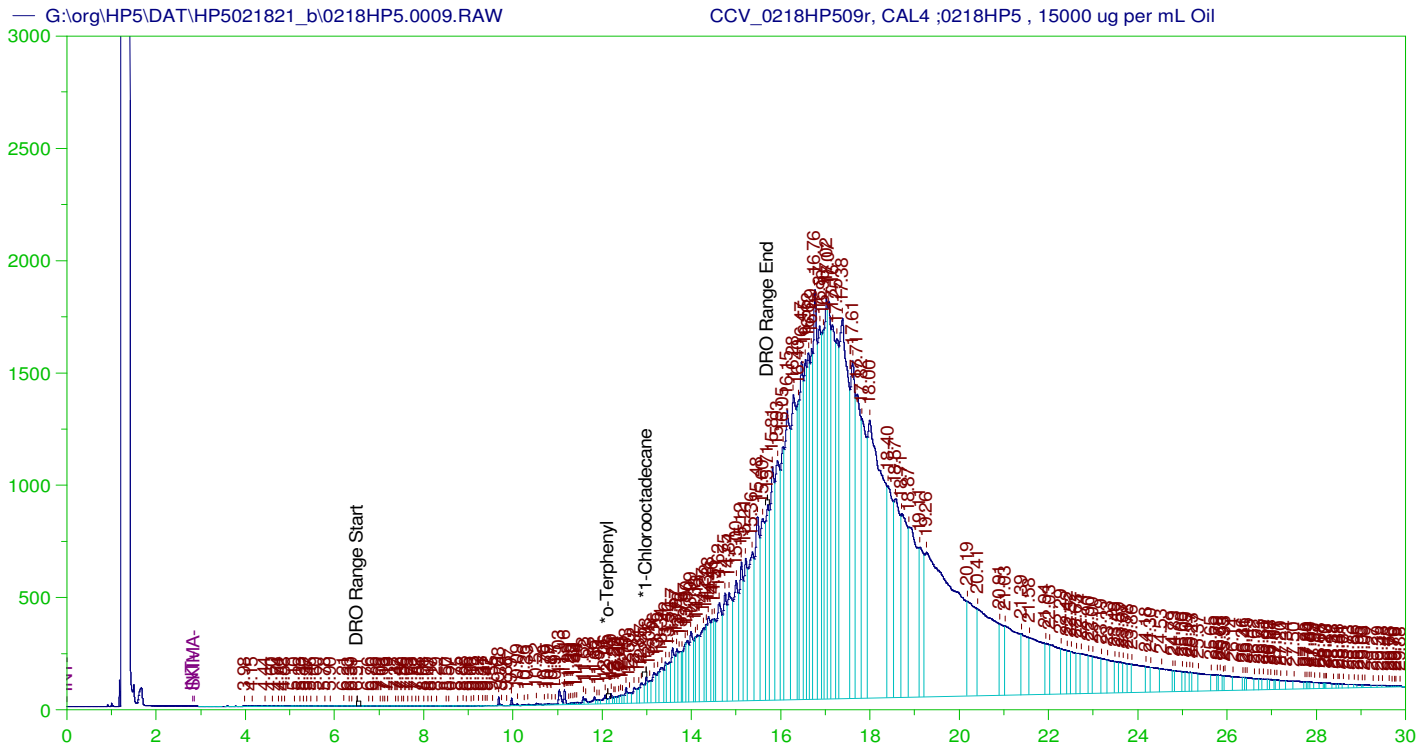
Sample Name: DCM-Baseline Check-V08
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0008.RAW
Date & Time Acquired: 2/18/2021 3:32:46 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .026 | .01 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:30717.07 DRO Amount: 1.042765
TEH Area:223672.8 TEH Amount: 7.593112

G:\org\HP5\dat\HP5021821_b\Review\008_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW
Date & Time Acquired: 2/18/2021 4:14:34 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | - |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | - |

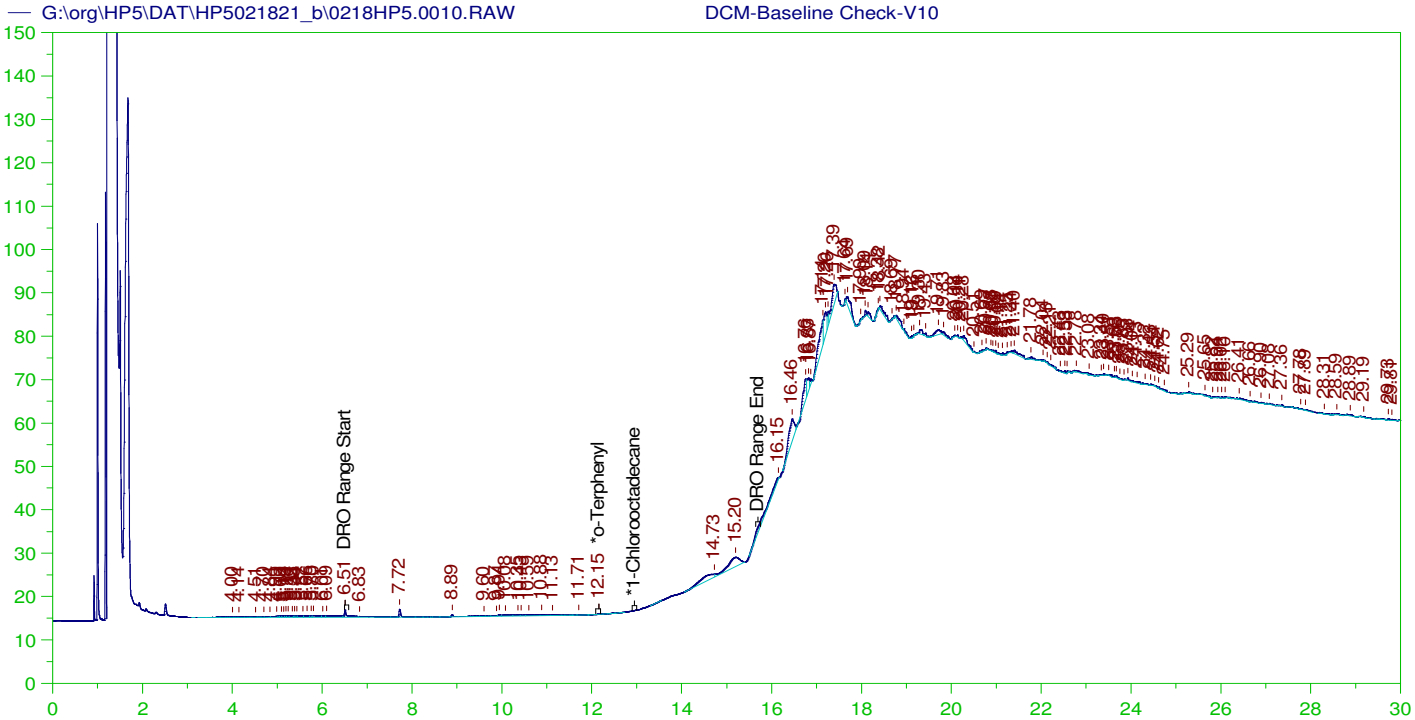
DRO Area:6.73131E+07 DRO Amount: 2358.354
TEH Area:4.193721E+08 TEH Amount: 14692.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14692.95 | 293.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | 85-115 |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\009_CCV_0218HP509r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

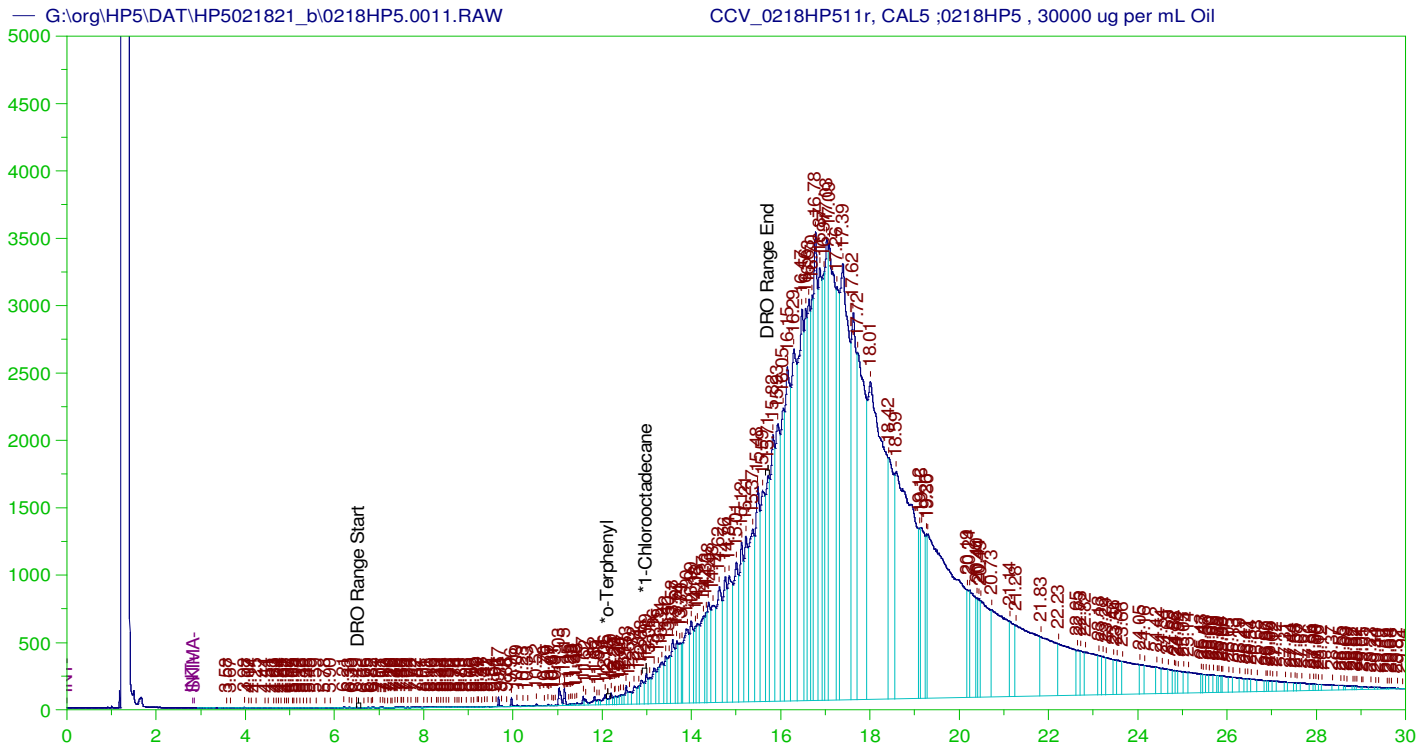
Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0010.RAW
Date & Time Acquired: 2/18/2021 4:56:16 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.153 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.957 | 200. | . | . | - |

DRO Area:108629.1 DRO Amount: 3.687675
TEH Area:543425.7 TEH Amount: 18.44789

G:\org\HP5\dat\HP5021821_b\Review\010_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW
Date & Time Acquired: 2/18/2021 5:38:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | - |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | - |

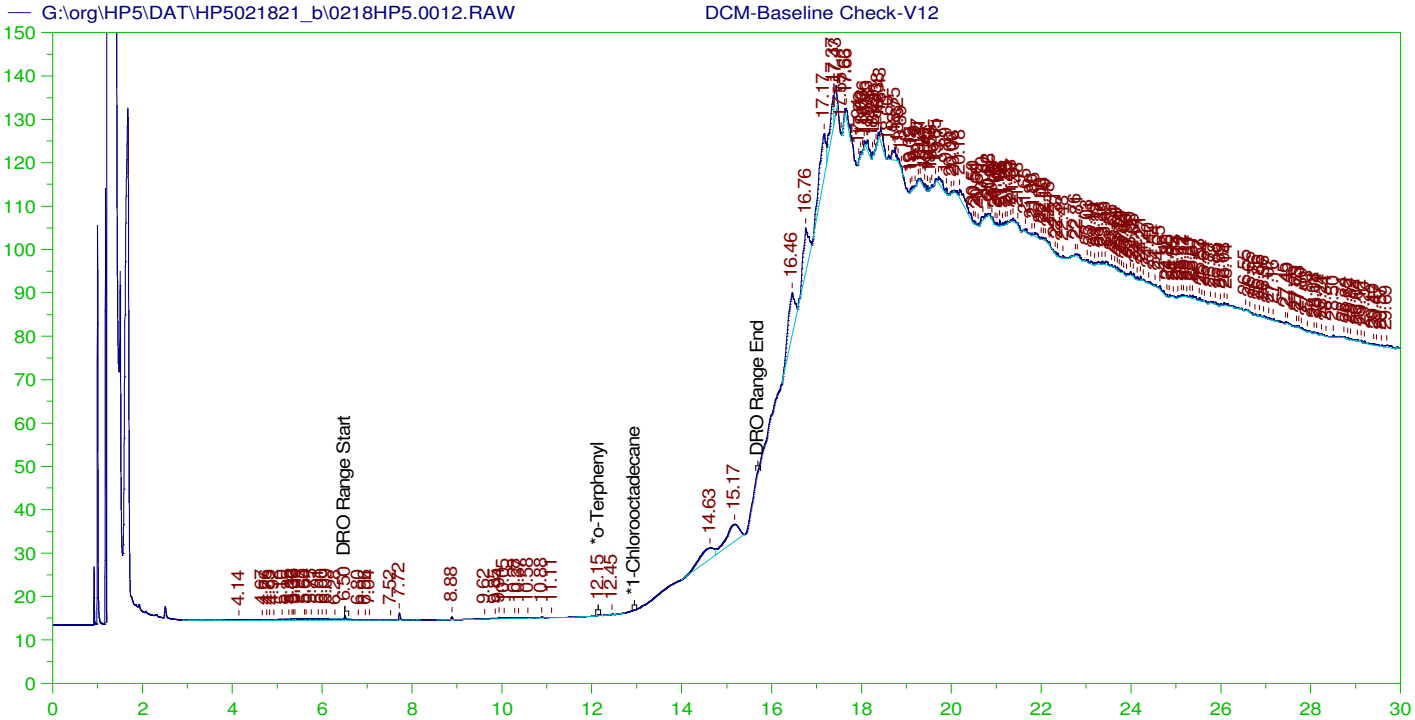
DRO Area:1.319327E+08 DRO Amount: 4622.338
TEH Area:8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 28207.69 | 564.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | 85-115 |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\011_CCV_0218HP511r_DR_OIL-021811-AA-L0.xls



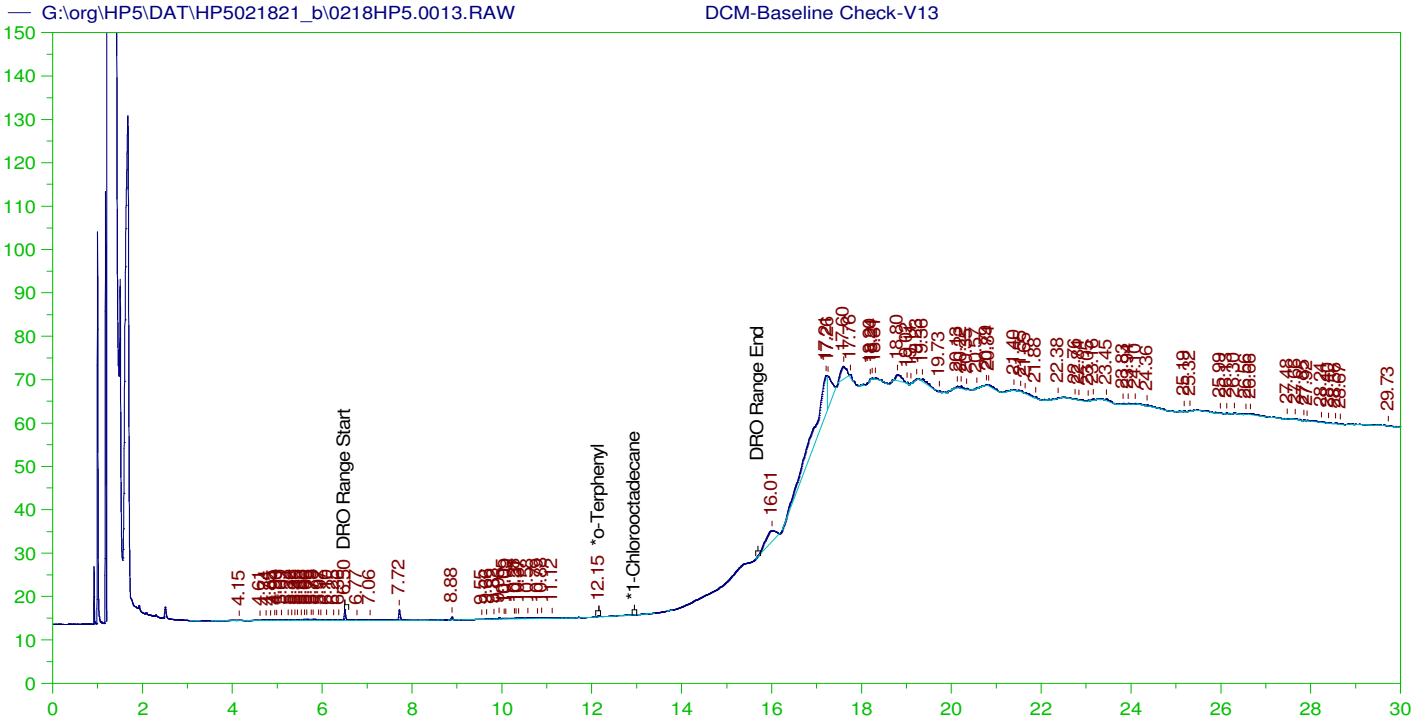

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0012.RAW
Date & Time Acquired: 2/18/2021 6:20:48 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:186033.1 DRO Amount: 6.31534
TEH Area:888262.2 TEH Amount: 30.1542




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

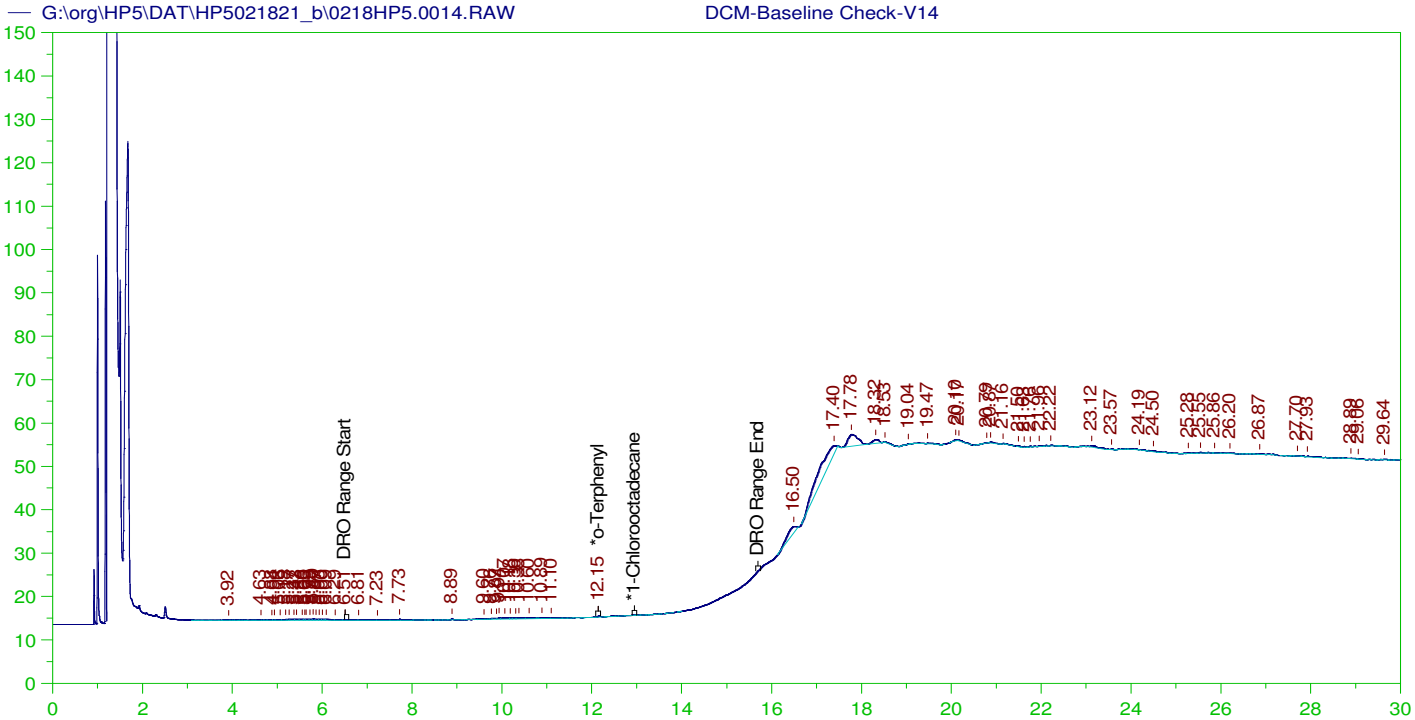
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0013.RAW
Date & Time Acquired: 2/18/2021 7:03:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.152 | 200. | .033 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:40824.55 DRO Amount: 1.385888
TEH Area:476705.3 TEH Amount: 16.18291

G:\org\HP5\dat\HP5021821_b\Review\013_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

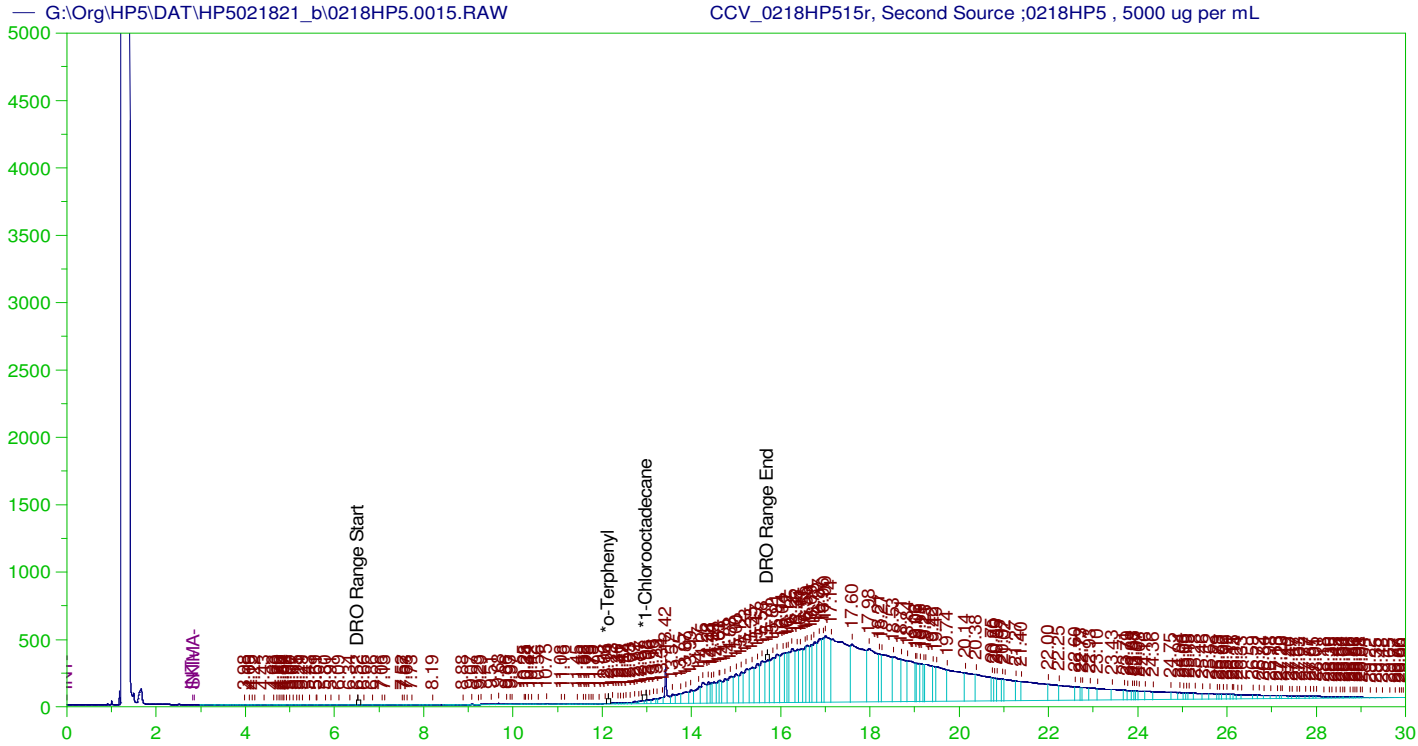
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0014.RAW
Date & Time Acquired: 2/18/2021 7:45:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.148 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.949 | 200. | . | . | - |

DRO Area:30445.24 DRO Amount: 1.033537
TEH Area:297634.4 TEH Amount: 10.10392

G:\org\HP5\dat\HP5021821_b\Review\014_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL
Raw File: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW
Date & Time Acquired: 2/18/2021 8:27:37 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 - |

DRO Area:2.558549E+07 DRO Amount: 0.8964027
TEH Area:1.562544E+08 TEH Amount: 5.474465

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5.47 | .11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | | 85-115 |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\015_CCV_0218HP515r_DR_OIL-021811-AA-L0.xls

| Write Sequence Data File | Sample Nan Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.09.20 13:12:26 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*08-Dec-20*

**Run ID** GCFID-HP4-B_201204B

| | |
|---|---|
| **Run Start Date:** | 12/4/2020 |
| **Analyst:** | Ann Nebel |
| **Ical:** | |
| **Column ID:** | |
| **Comments:** | NEW ICAL<br>SW8015C_DRO201204MA.CAL |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO191002A | #2 Diesel in Acetone 150,000 ug/mL | | | | | ICV-SECON | 11/5/2023 |
| DRO200420B | OTP-4000 ug/mL DCM | | | | | SURR CAL | 9/30/2024 |
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | DIESEL CA | 12/31/2021 |
| DRO201106B | ALASKA MARKER-200ug/mL | | | | | MARKER | 9/30/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091272 | CCV_1204HP40 | HC-8015-DRO- | CCV | | 12/4/2020 11:36: | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091273 | CCV_1204HP40 | HC-8015-DRO- | CAL1 | | 12/4/2020 1:05:3 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00192436 | | 0.002 | 0 | 0 | 0 | 0.002 | 0 | 96% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091274 | CCV_1204HP40 | HC-8015-DRO- | CAL2 | | 12/4/2020 1:50:2 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04829156 | | 0.05 | 0 | 0 | 0.000531 | 0.002 | 0 | 97% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091275 | CCV_1204HP40 | HC-8015-DRO- | CAL3 | | 12/4/2020 2:35:4 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2028877 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091276 | CCV_1204HP40 | HC-8015-DRO- | CAL4 | | 12/4/2020 3:20:1 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.5068046 | | 0.5 | 0 | 0 | 0.000531 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091277 | CCV_1204HP40 | HC-8015-DRO- | CAL5 | | 12/4/2020 4:04:3 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 1.043939 | | 1 | 0 | 0 | 0.000531 | 0.002 | 0 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091278 | CCV_1204HP41 | HC-8015-DRO- | CAL2 | | 12/4/2020 5:34:2 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.718009 | | 3.75 | 0 | 0 | 0.047 | 0.3 | 50 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091279 | CCV_1204HP41 | HC-8015-DRO- | CAL3 | | 12/4/2020 6:19:1 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.11043 | | 15 | 0 | 0 | 0.047 | 0.3 | 50 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091280 | CCV_1204HP41 | HC-8015-DRO- | CAL4 | | 12/4/2020 7:04:0 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 38.23891 | | 37.5 | 0 | 0 | 0.047 | 0.3 | 50 | 102% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091281 | CCV_1204HP41 | HC-8015-DRO- | CAL5 | | 12/4/2020 7:49:1 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 51.19762 | | 50 | 0 | 0 | 0.047 | 0.3 | 50 | 102% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091282 | CCV_1204HP41 | HC-8015-DRO- | ICV | | 12/4/2020 8:34:1 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 16.37125 | | 15 | 0 | 0 | 0.047 | 0.3 | 50 | 109% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091283 | CCV_1204HP44 | HC-8015-DRO- | CCV | | 12/5/2020 6:02:3 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091284 | CCV_1204HP44 | HC-8015-DRO- | CAL1 | | 12/5/2020 7:32:1 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1436269 | | 0.15 | 0 | 0 | 0 | 0.3 | 50 | 96% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP4\DAT\HP4120420_b\1204HP4.01r | DCM-Baseline Check-V01 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.02r | CCV_1204HP402r, DRO ;1204HP4 , DRO201106B | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.03r | DCM-Baseline Check-V03 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.04r | CCV_1204HP404r, CAL1 ;1204HP4 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.05r | CCV_1204HP405r, CAL2 ;1204HP4 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.06r | CCV_1204HP406r, CAL3 ;1204HP4 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.07r | CCV_1204HP407r, CAL4 ;1204HP4 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.08r | CCV_1204HP408r, CAL5 ;1204HP4 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO20420B + 750 DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.10r | CCV_1204HP410r, CAL2 ;1204HP4 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.11r | CCV_1204HP411r, CAL3 ;1204HP4 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.12r | CCV_1204HP412r, CAL4 ;1204HP4 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.13r | CCV_1204HP413r, CAL5 ;1204HP4 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.14r | CCV_1204HP418r, Second Source ;1204HP4 , 15000 ug per mL (100uL of DRO191002A + 900uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.43r | CCV_1204HP443r, DRO ;1204HP4 , DRO201106B | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.44r | DCM-Baseline Check-V44 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.45r | CCV_1204HP445r, CAL1 ;1204HP4 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13285), then 100 uL of that + 100 uL of DCM (13285)) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Version: 14

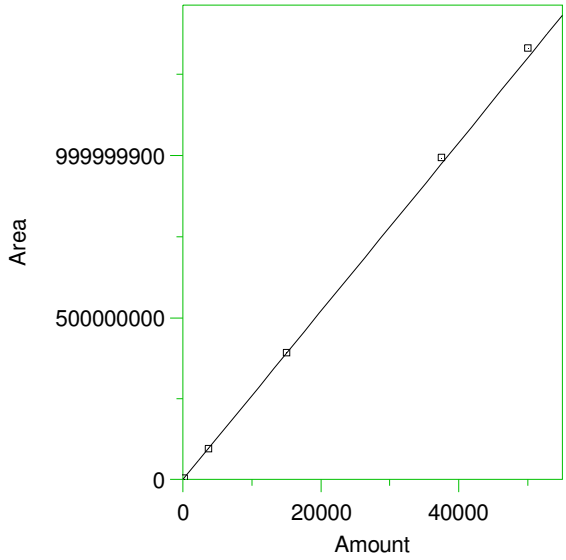
Creator: AMN
Description: DRO-8015. New ICal Per 1204HP4 (2020)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.63 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

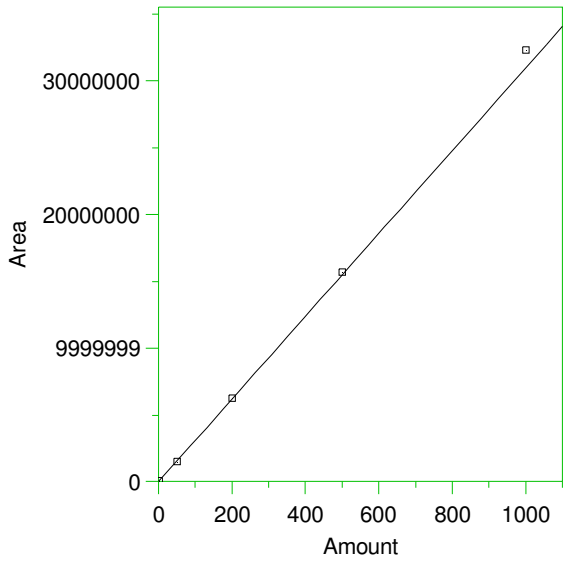
Y = 26029.55 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9989907 |
| Average error: | 2.041% |
| Average CF: | 26029.55 |
| RSD: | 2.690% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3738542 | 24923.61 | -4.249 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0004.BND | 12/7/2020 10:27:32 AM |
| 2 | 3750 | 9.67781E+07 | 25807.49 | -0.853 | Manual | 12/7/2020 10:30:52 AM |
| 3 | 15000 | 3.933177E+08 | 26221.18 | 0.736 | Manual | 12/7/2020 10:30:16 AM |
| 4 | 37500 | 9.953414E+08 | 26542.44 | 1.970 | Manual | 12/7/2020 10:30:48 AM |
| 5 | 50000 | 1.332651E+09 | 26653.02 | 2.395 | Manual | 12/7/2020 10:30:30 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.7 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

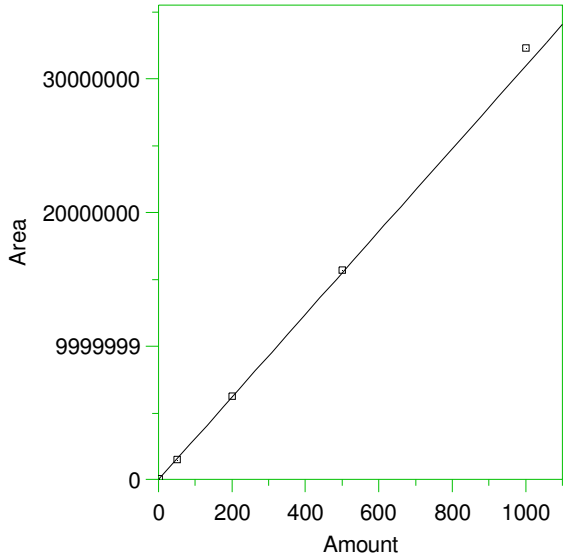
Y = 30968.61 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9973109 |
| Average error: | 2.879% |
| Average CF: | 30968.61 |
| RSD: | 3.508% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 59594.86 | 29797.43 | -3.782 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0004.BND | 12/7/2020 10:27:32 AM |
| 2 | 50 | 1495522 | 29910.44 | -3.417 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0005.BND | 12/7/2020 10:27:37 AM |
| 3 | 200 | 6283151 | 31415.76 | 1.444 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0006.BND | 12/7/2020 10:28:12 AM |
| 4 | 500 | 1.569503E+07 | 31390.06 | 1.361 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0007.BND | 12/7/2020 10:28:17 AM |
| 5 | 1000 | 3.232935E+07 | 32329.35 | 4.394 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0008.BND | 12/7/2020 10:28:22 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.52 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

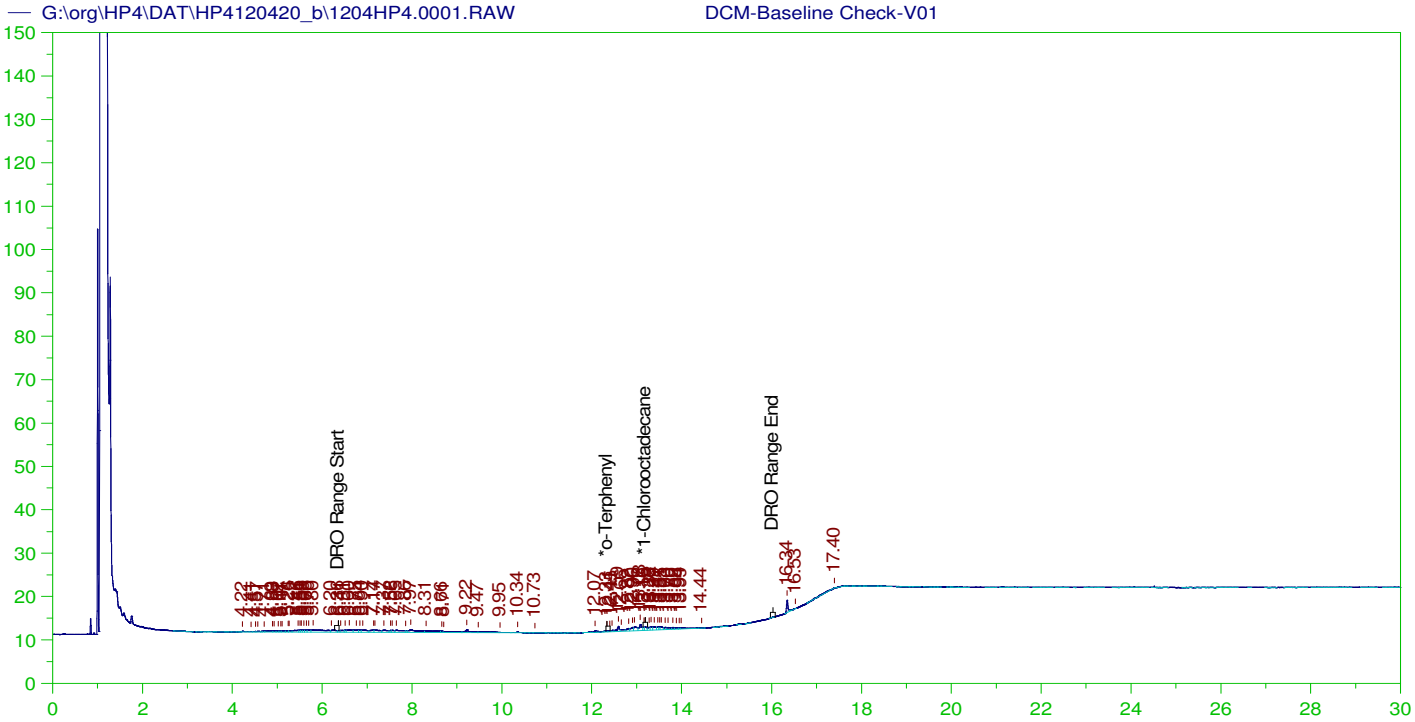
Single peak quantification by area

Y = 30968.61 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9973109 |
| Average error: | 2.879% |
| Average CF: | 30968.61 |
| RSD: | 3.508% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 59594.86 | 29797.43 | -3.782 | Manual | 12/7/2020 10:28:30 AM |
| 2 | 50 | 1495522 | 29910.44 | -3.417 | Manual | 12/7/2020 10:28:35 AM |
| 3 | 200 | 6283151 | 31415.76 | 1.444 | Manual | 12/7/2020 10:28:37 AM |
| 4 | 500 | 1.569503E+07 | 31390.06 | 1.361 | Manual | 12/7/2020 10:28:53 AM |
| 5 | 1000 | 3.232935E+07 | 32329.35 | 4.394 | Manual | 12/7/2020 10:28:55 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

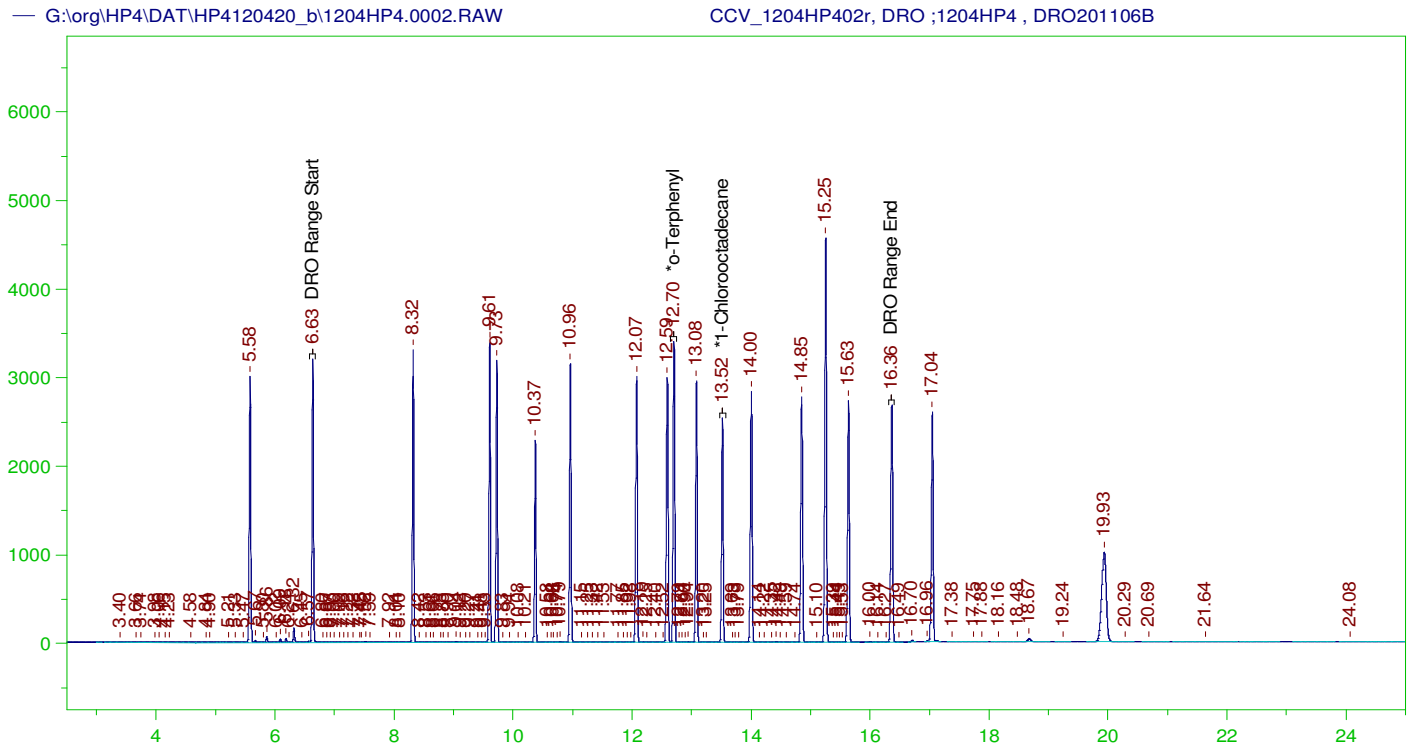
Sample Name: DCM-Baseline Check-V01
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0001.RAW
Date & Time Acquired: 12/4/2020 10:51:29 AM
Method File: G:\Org\HP4\Methods\DR_8015-LV-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO200127LV.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26131.15
Rt range for Diesel Range Organics: 6.275 to 16.08

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.332 | 200. | .022 | .01 | - |
| *1-Chlorooctadecane | 13.19 | 200. | .087 | .04 | - |

DRO Area:131841.8 DRO Amount: 5.045388
TEH Area:191840.2 TEH Amount: 7.341434

G:\org\HP4\dat\HP4120420_b\Review\001_DCM-Baseline Chec_DR_8015-LV-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP402r, DRO ;1204HP4 , DRO201106B
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0002.RAW
Date & Time Acquired: 12/4/2020 11:36:06 AM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.704 | 200. | 196.793 | 98.4 | - |
| *1-Chlorooctadecane | 13.518 | 200. | 156.165 | 78.08 | - |

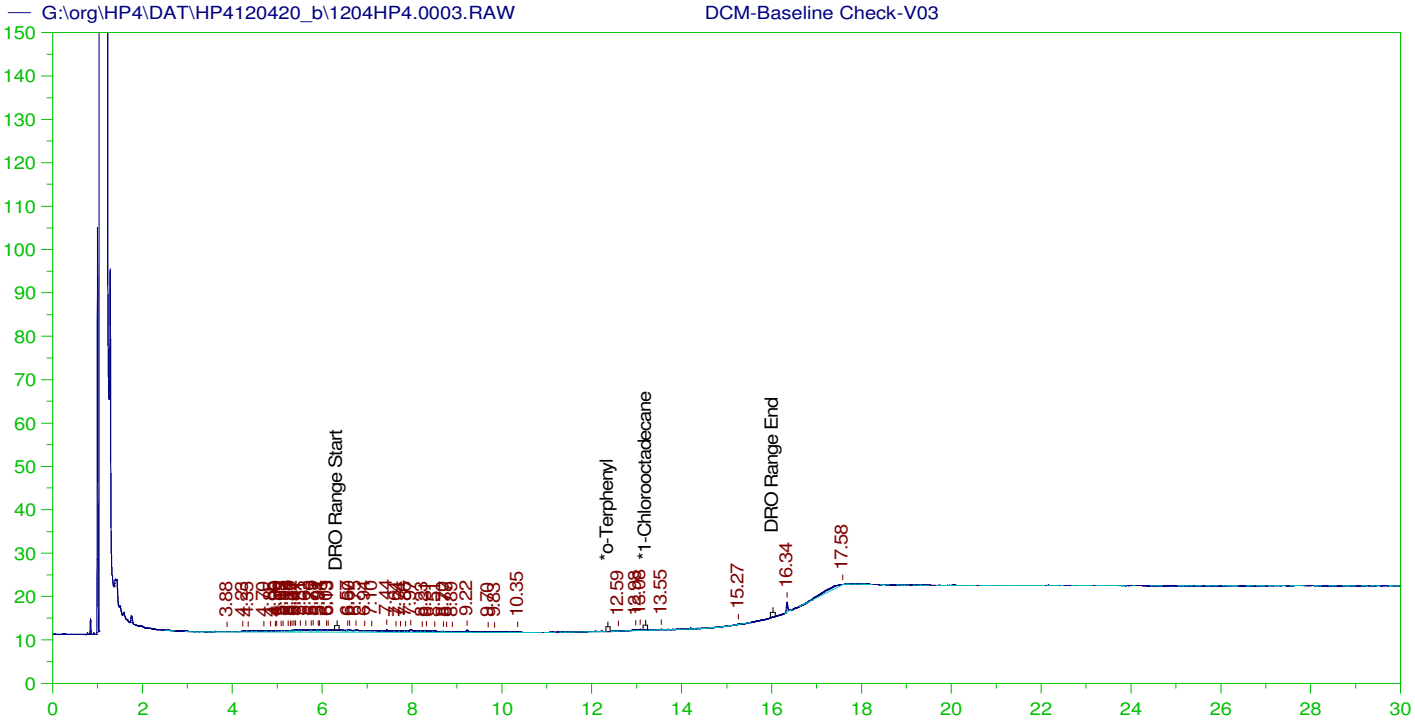
DRO Area:8.032126E+07 DRO Amount: 3085.772
TEH Area:9.790946E+07 TEH Amount: 3761.474

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0002.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3761.47 | 25.08 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.704 | 200. | 196.793 | 98.4 | 85-115 |
| *1-Chlorooctadecane | 13.518 | 200. | 156.165 | 78.08 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\002_CCV_1204HP402r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

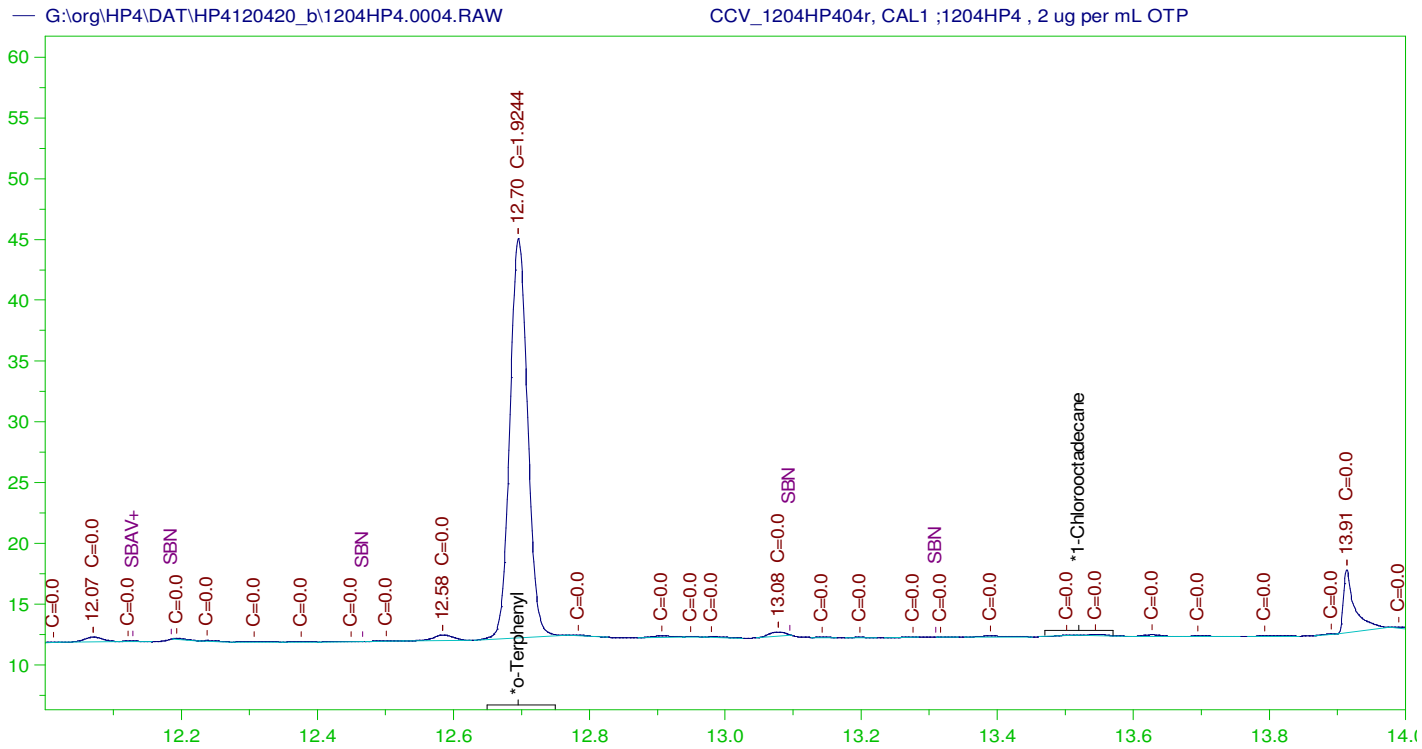
Sample Name: DCM-Baseline Check-V03
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0003.RAW
Date & Time Acquired: 12/4/2020 12:20:54 PM
Method File: G:\Org\HP4\Methods\DR_8015-LV-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO200127LV.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26131.15
Rt range for Diesel Range Organics: 6.275 to 16.08

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.924 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.924 | 200. | . | . | - |

DRO Area:61277.58 DRO Amount: 2.345001
TEH Area:138711.7 TEH Amount: 5.308289

G:\org\HP4\dat\HP4120420_b\Review\003_DCM-Baseline Chec_DR_8015-LV-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP404r, CAL1 ;1204HP4 , 2 ug per mL OTP
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0004.RAW
Date & Time Acquired: 12/4/2020 1:05:36 PM
Method File: G:\Org\HP4\Methods\DS_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.696 | 200. | 1.924 | .96 | - |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | - |

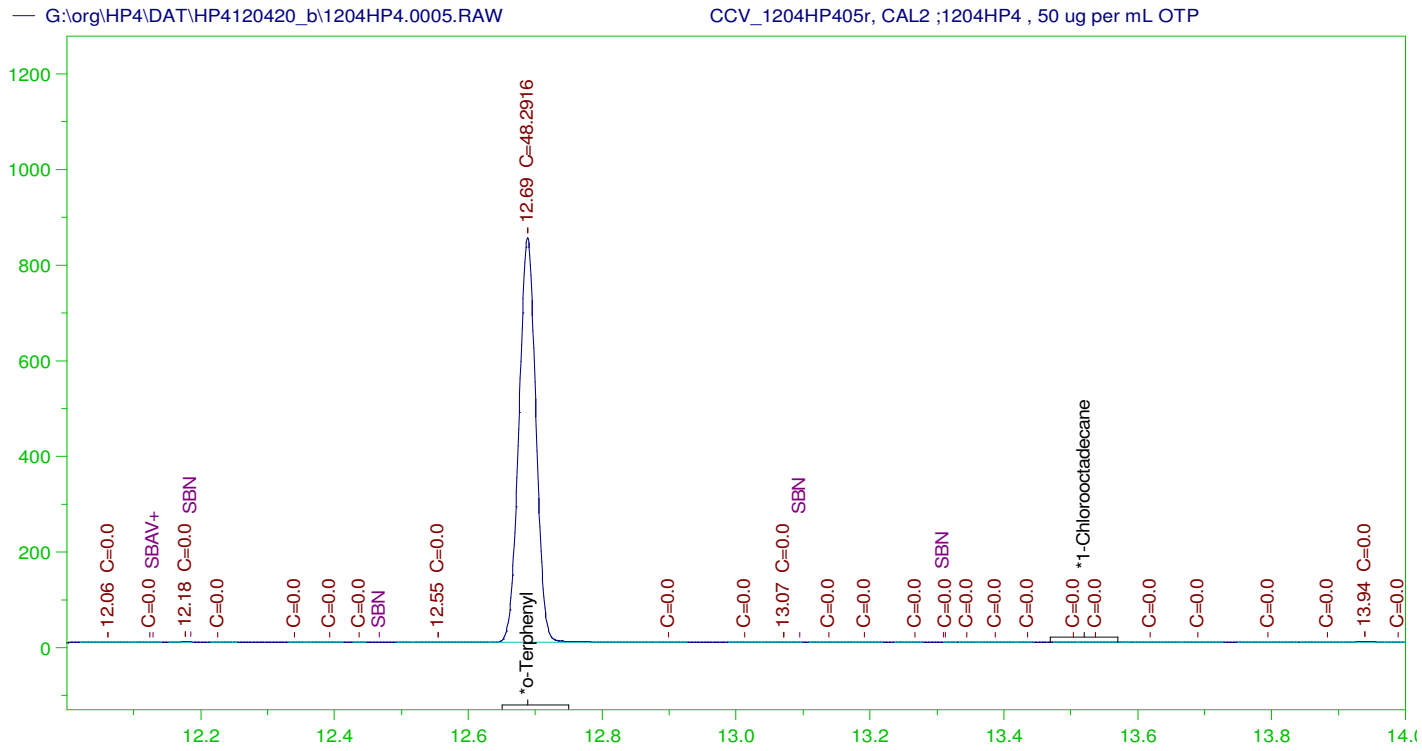
DRO Area:42806.8 DRO Amount: 1.644547
TEH Area:78294.04 TEH Amount: 3.007891

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.696 | 200. | 1.924 | .96 | 85-115 |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\004_CCV_1204HP404r_DS_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP405r, CAL2 ;1204HP4 , 50 ug per mL OTP
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0005.RAW
Date & Time Acquired: 12/4/2020 1:50:24 PM
Method File: G:\Org\HP4\Methods\DS_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.688 | 200. | 48.292 | 24.15 | - |
| *1-Chlorooctadecane | 29.965 | 200. | . | . | - |

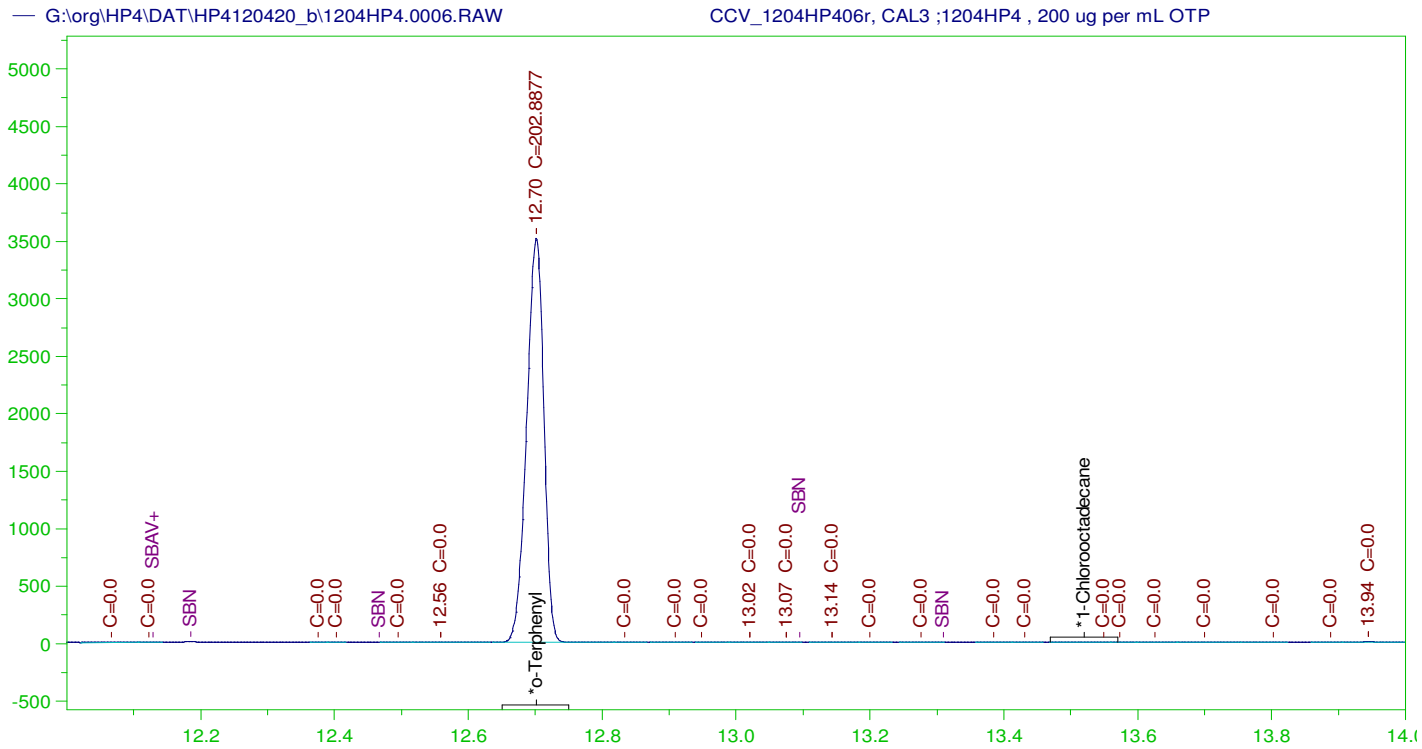
DRO Area:27898.55 DRO Amount: 1.071803
TEH Area:56399.18 TEH Amount: 2.166737

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.688 | 200. | 48.292 | 24.15 | 85-115 |
| *1-Chlorooctadecane | 29.965 | 200. | . | . | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\005_CCV_1204HP405r_DS_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP406r, CAL3 ;1204HP4 , 200 ug per mL OTP
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0006.RAW
Date & Time Acquired: 12/4/2020 2:35:41 PM
Method File: G:\Org\HP4\Methods\DS_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.701 | 200. | 202.888 | 101.44 | - |
| *1-Chlorooctadecane | 29.987 | 200. | . | . | - |

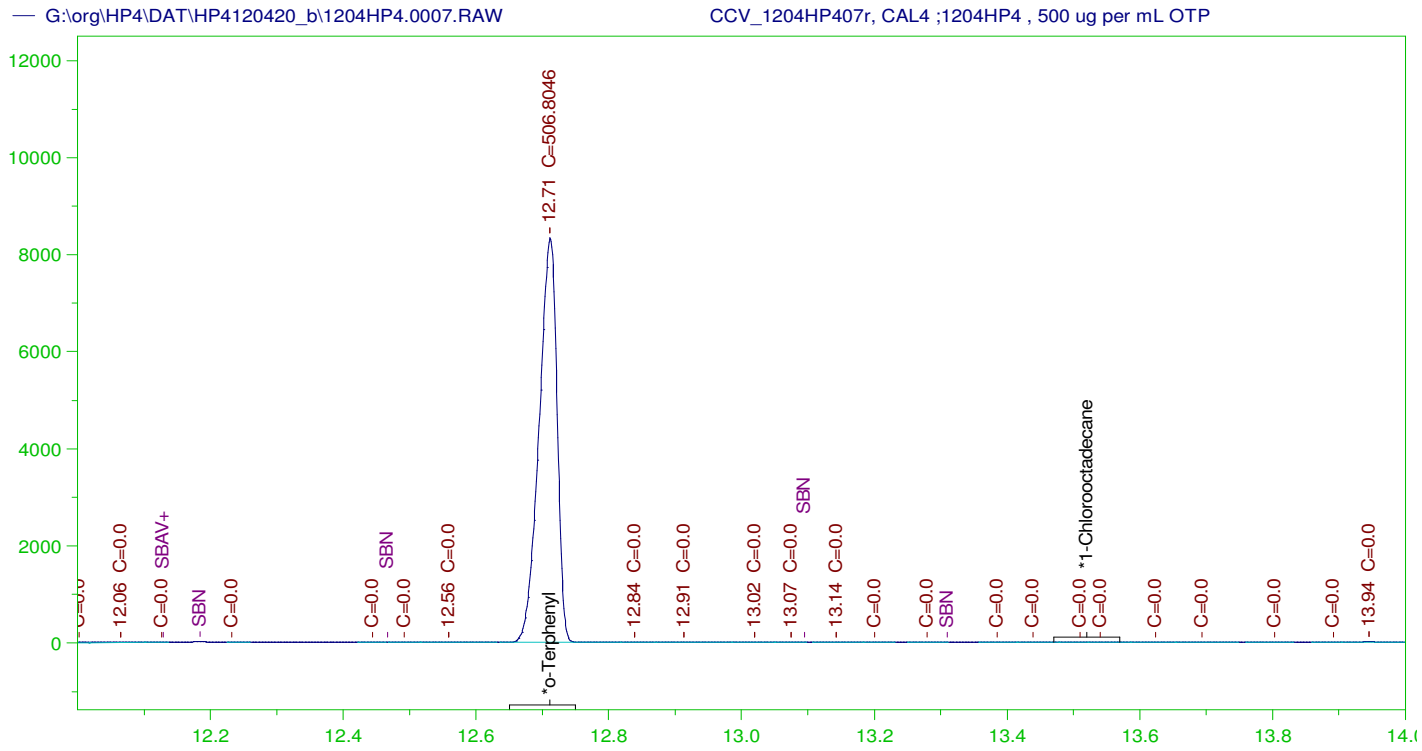
DRO Area:58902.57 DRO Amount: 2.262912
TEH Area:77900.72 TEH Amount: 2.99278

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.701 | 200. | 202.888 | 101.44 | 85-115 |
| *1-Chlorooctadecane | 29.987 | 200. | . | . | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\006_CCV_1204HP406r_DS_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP407r, CAL4 ;1204HP4 , 500 ug per mL OTP
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0007.RAW
Date & Time Acquired: 12/4/2020 3:20:14 PM
Method File: G:\Org\HP4\Methods\DS_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.712 | 200. | 506.805 | 253.4 | - |
| *1-Chlorooctadecane | 29.936 | 200. | . | . | - |

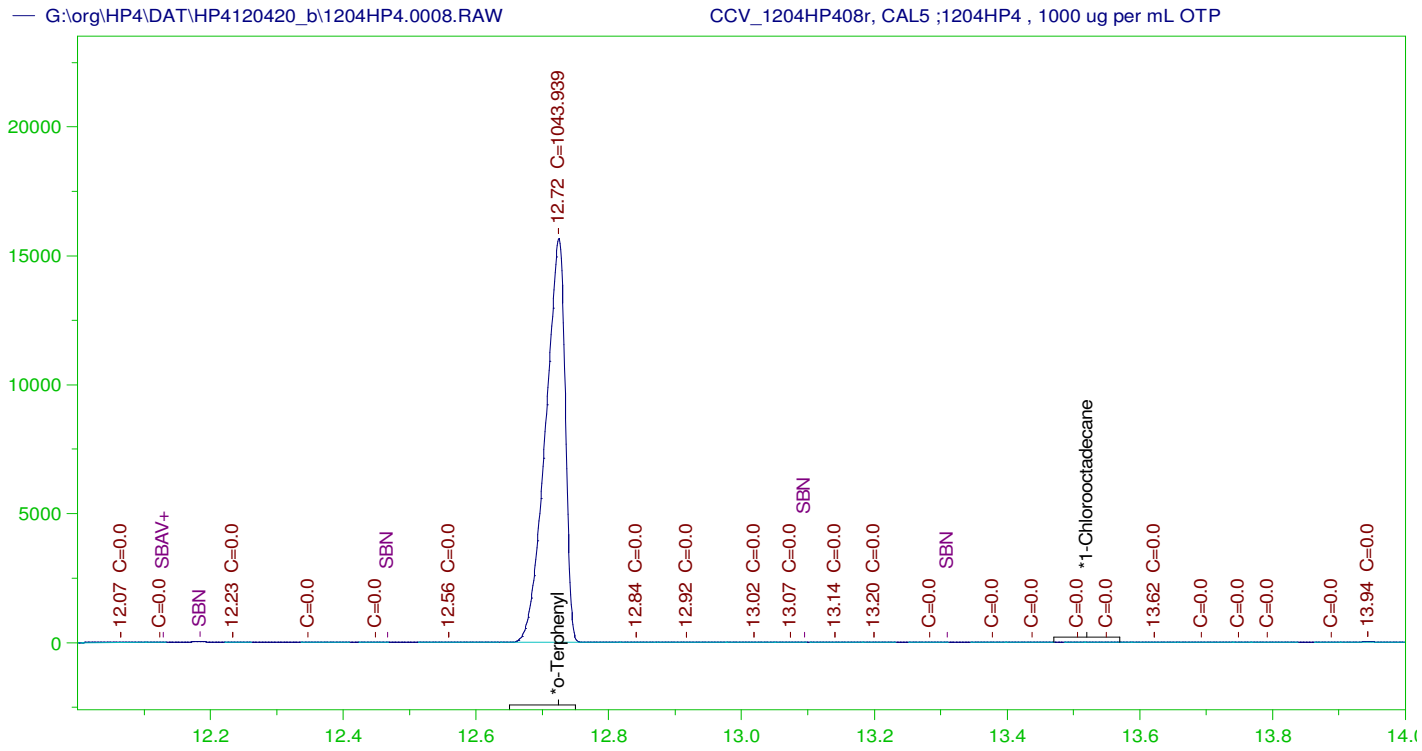
DRO Area:96470.52 DRO Amount: 3.706193
TEH Area:119636.2 TEH Amount: 4.596168

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.712 | 200. | 506.805 | 253.4 | 85-115 |
| *1-Chlorooctadecane | 29.936 | 200. | . | . | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\007_CCV_1204HP407r_DS_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP408r, CAL5 ;1204HP4 , 1000 ug per mL OTP
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0008.RAW
Date & Time Acquired: 12/4/2020 4:04:32 PM
Method File: G:\Org\HP4\Methods\DS_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.725 | 200. | 1043.939 | 521.97 | - |
| *1-Chlorooctadecane | 29.973 | 200. | . | . | - |

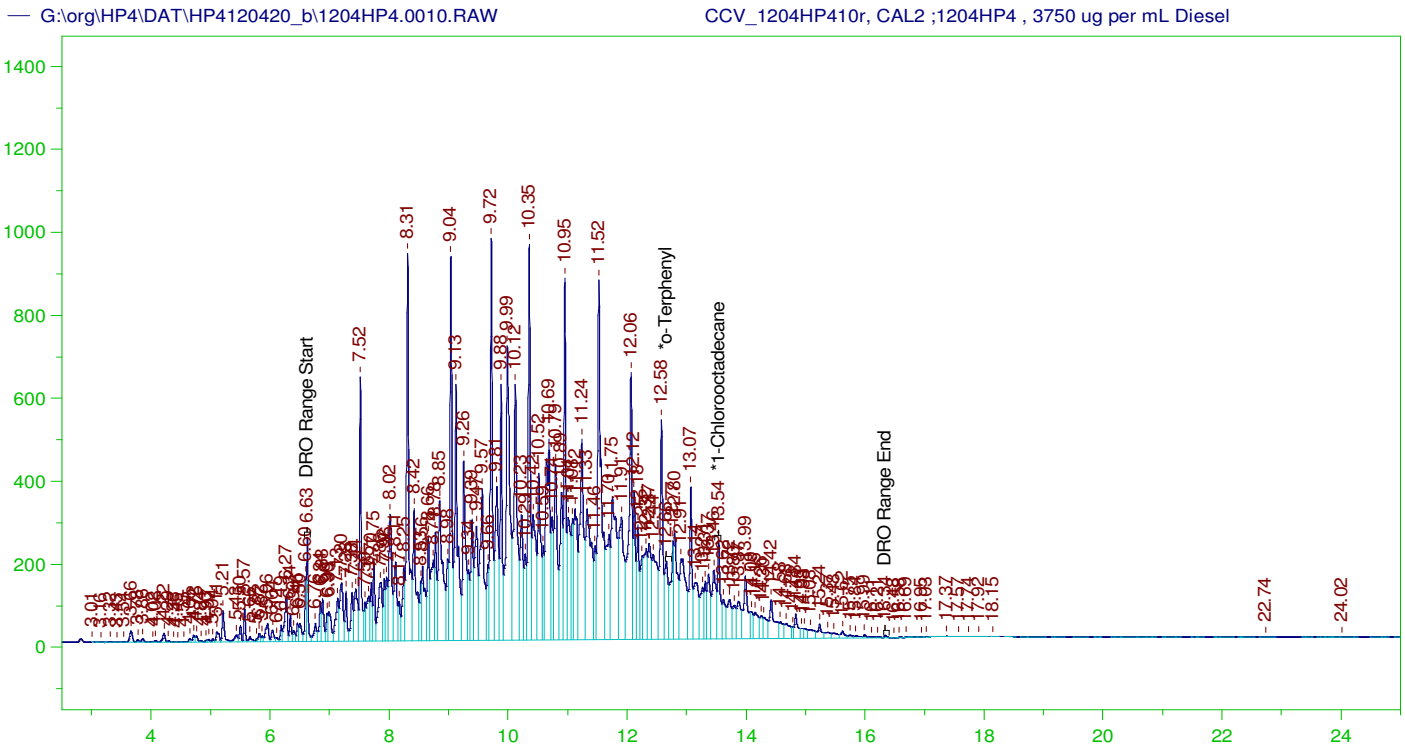
DRO Area:168511.6 DRO Amount: 6.473857
TEH Area:197978.1 TEH Amount: 7.605898

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.725 | 200. | 1043.939 | 521.97 | 85-115 |
| *1-Chlorooctadecane | 29.973 | 200. | . | . | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\008_CCV_1204HP408r_DS_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP410r, CAL2 ;1204HP4 , 3750 ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0010.RAW
Date & Time Acquired: 12/4/2020 5:34:20 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.661 | 200. | 25.472 | 12.74 | - |
| *1-Chlorooctadecane | 13.539 | 200. | 24.714 | 12.36 | - |

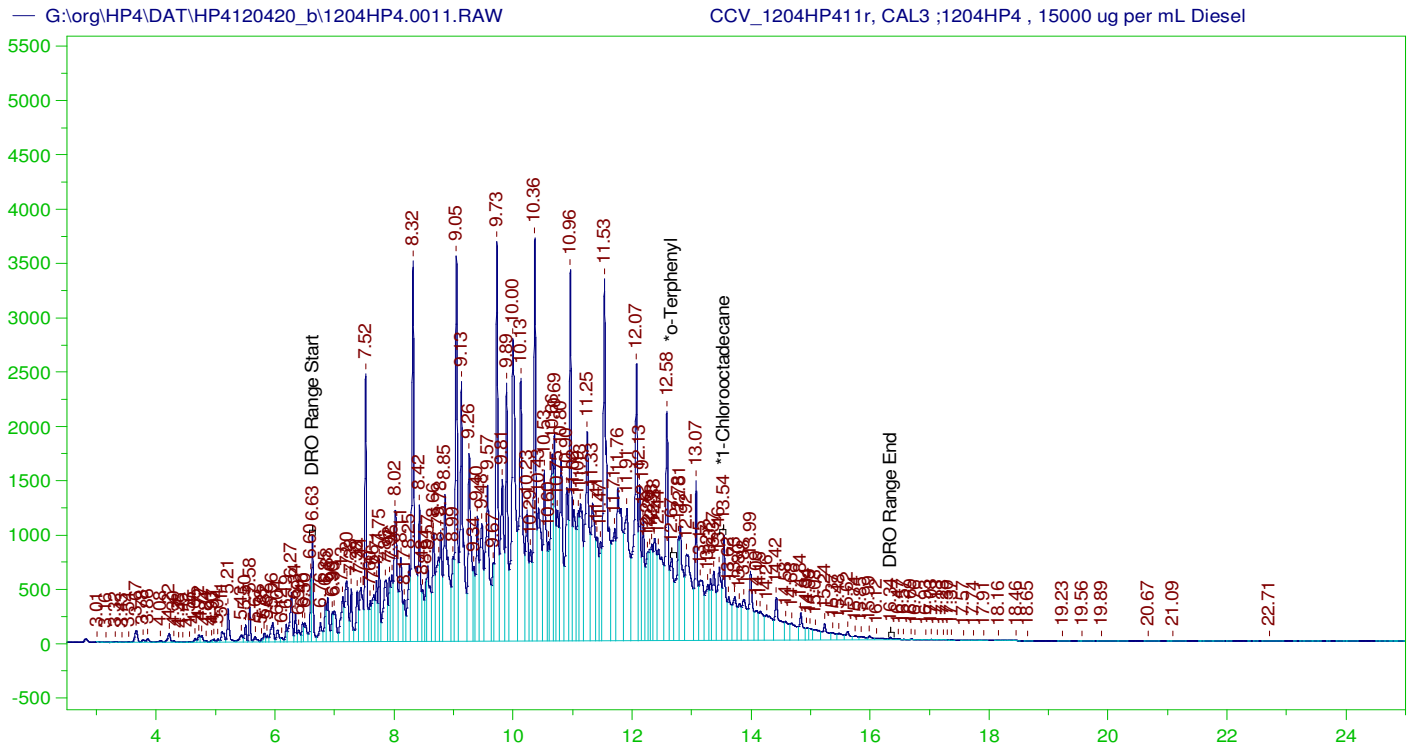
DRO Area:9.445692E+07 DRO Amount: 3628.834
TEH Area:9.67781E+07 TEH Amount: 3718.009

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3718.01 | 24.79 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.661 | 200. | 25.472 | 12.74 | 85-115 |
| *1-Chlorooctadecane | 13.539 | 200. | 24.714 | 12.36 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\010_CCV_1204HP410r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP411r, CAL3 ;1204HP4 , 15000 ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0011.RAW
Date & Time Acquired: 12/4/2020 6:19:16 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.667 | 200. | 105.518 | 52.76 | - |
| *1-Chlorooctadecane | 13.543 | 200. | 101.377 | 50.69 | - |

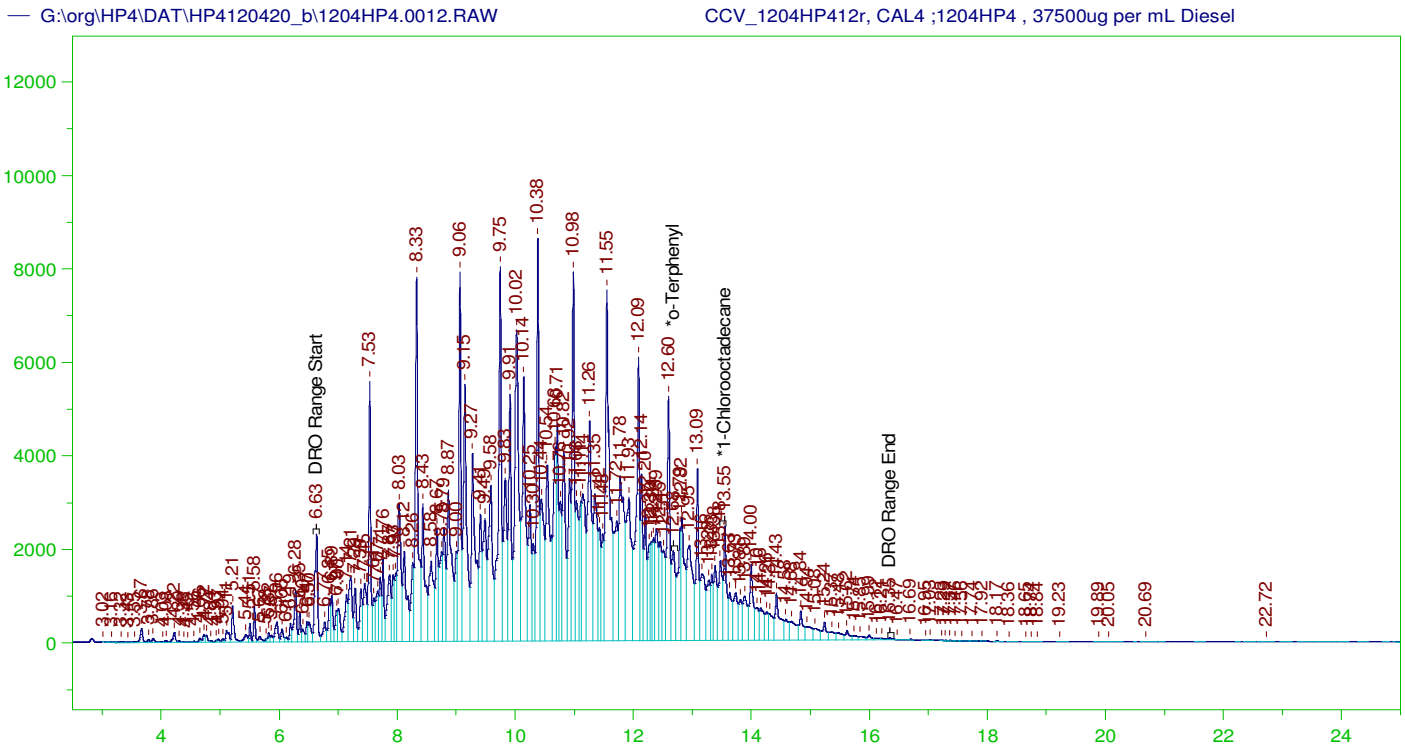
DRO Area:3.839842E+08 DRO Amount: 14751.86
TEH Area:3.933177E+08 TEH Amount: 15110.43

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15110.43 | 100.74 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.667 | 200. | 105.518 | 52.76 | 85-115 |
| *1-Chlorooctadecane | 13.543 | 200. | 101.377 | 50.69 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\011_CCV_1204HP411r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP412r, CAL4 ;1204HP4 , 37500ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0012.RAW
Date & Time Acquired: 12/4/2020 7:04:08 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.679 | 200. | 270.46 | 135.23 | - |
| *1-Chlorooctadecane | 13.552 | 200. | 259.974 | 129.99 | - |

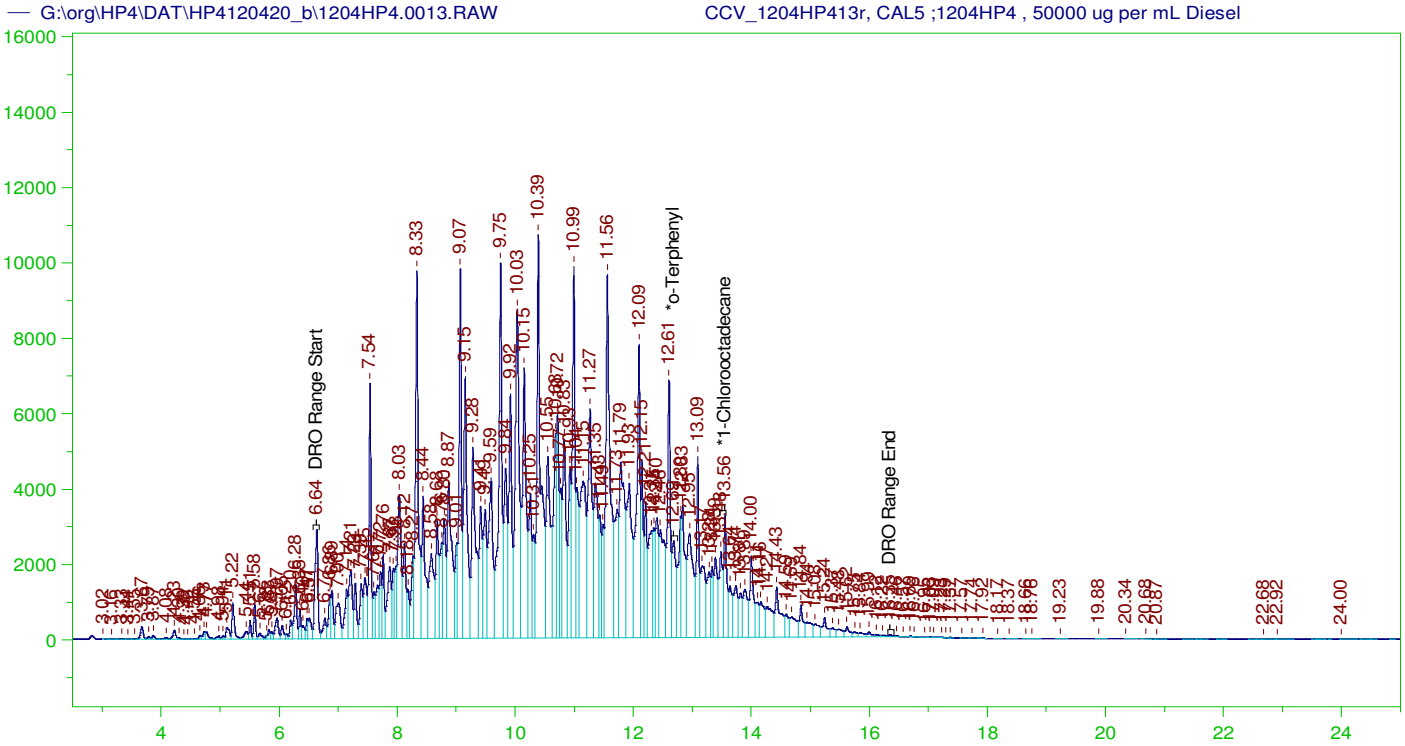
DRO Area:9.716485E+08 DRO Amount: 37328.68
TEH Area:9.953414E+08 TEH Amount: 38238.91

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 38238.91 | 254.93 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.679 | 200. | 270.46 | 135.23 | 85-115 |
| *1-Chlorooctadecane | 13.552 | 200. | 259.974 | 129.99 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\012_CCV_1204HP412r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP413r, CAL5 ;1204HP4 , 50000 ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0013.RAW
Date & Time Acquired: 12/4/2020 7:49:15 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.686 | 200. | 362.204 | 181.1 | - |
| *1-Chlorooctadecane | 13.555 | 200. | 354.367 | 177.18 | - |

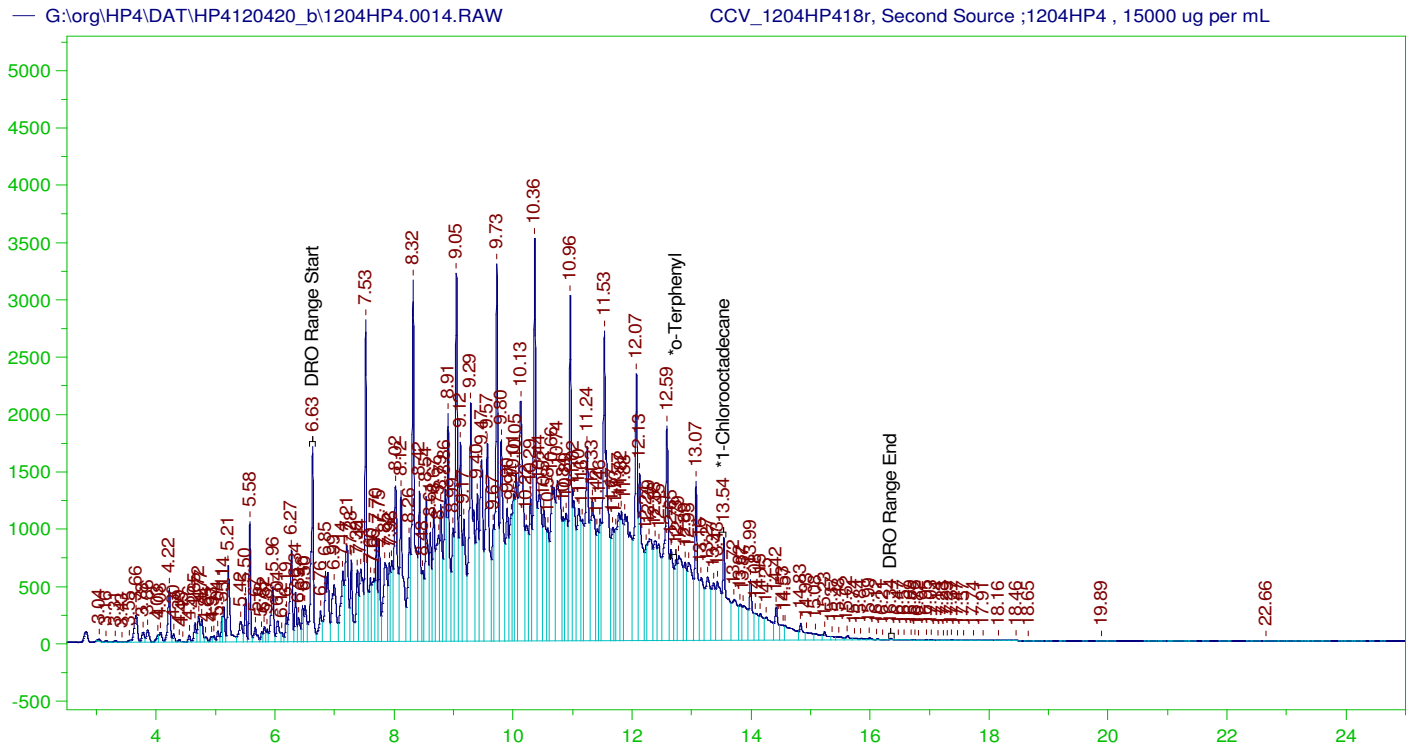
DRO Area:1.300849E+09 DRO Amount: 49975.85
TEH Area:1.332651E+09 TEH Amount: 51197.62

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 51197.62 | 341.32 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.686 | 200. | 362.204 | 181.1 | 85-115 |
| *1-Chlorooctadecane | 13.555 | 200. | 354.367 | 177.18 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\013_CCV_1204HP413r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP418r, Second Source ;1204HP4 , 15000 ug per mL
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0014.RAW
Date & Time Acquired: 12/4/2020 8:34:17 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.734 | 200. | 69.715 | 34.86 | - |
| *1-Chlorooctadecane | 13.542 | 200. | 144.942 | 72.47 | - |

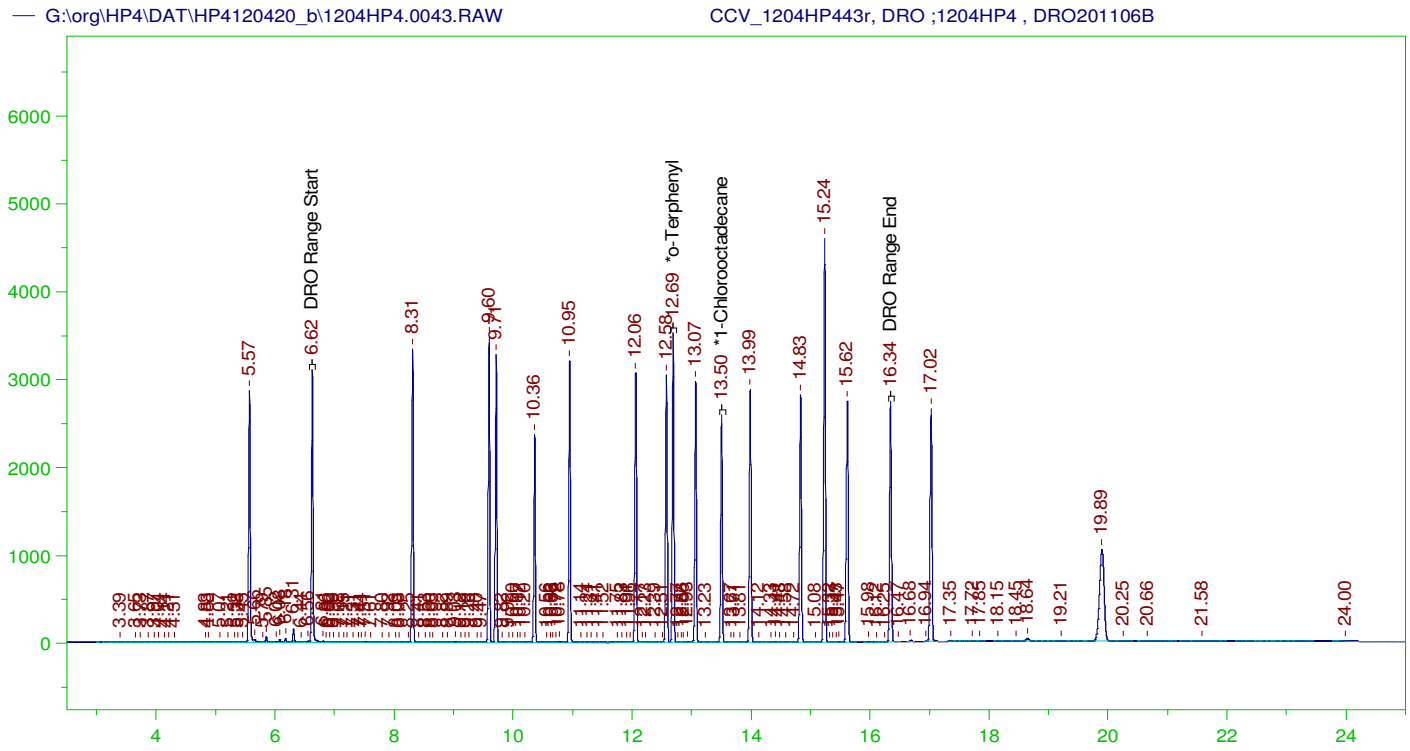
DRO Area:4.031359E+08 DRO Amount: 15487.63
TEH Area:4.261363E+08 TEH Amount: 16371.25

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16371.25 | 109.14 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.734 | 200. | 69.715 | 34.86 | 85-115 |
| *1-Chlorooctadecane | 13.542 | 200. | 144.942 | 72.47 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\014_CCV_1204HP418r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP443r, DRO ;1204HP4 , DRO201106B
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0043.RAW
Date & Time Acquired: 12/5/2020 6:02:34 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.691 | 200. | 200.852 | 100.43 | - |
| *1-Chlorooctadecane | 13.503 | 200. | 159.448 | 79.72 | - |

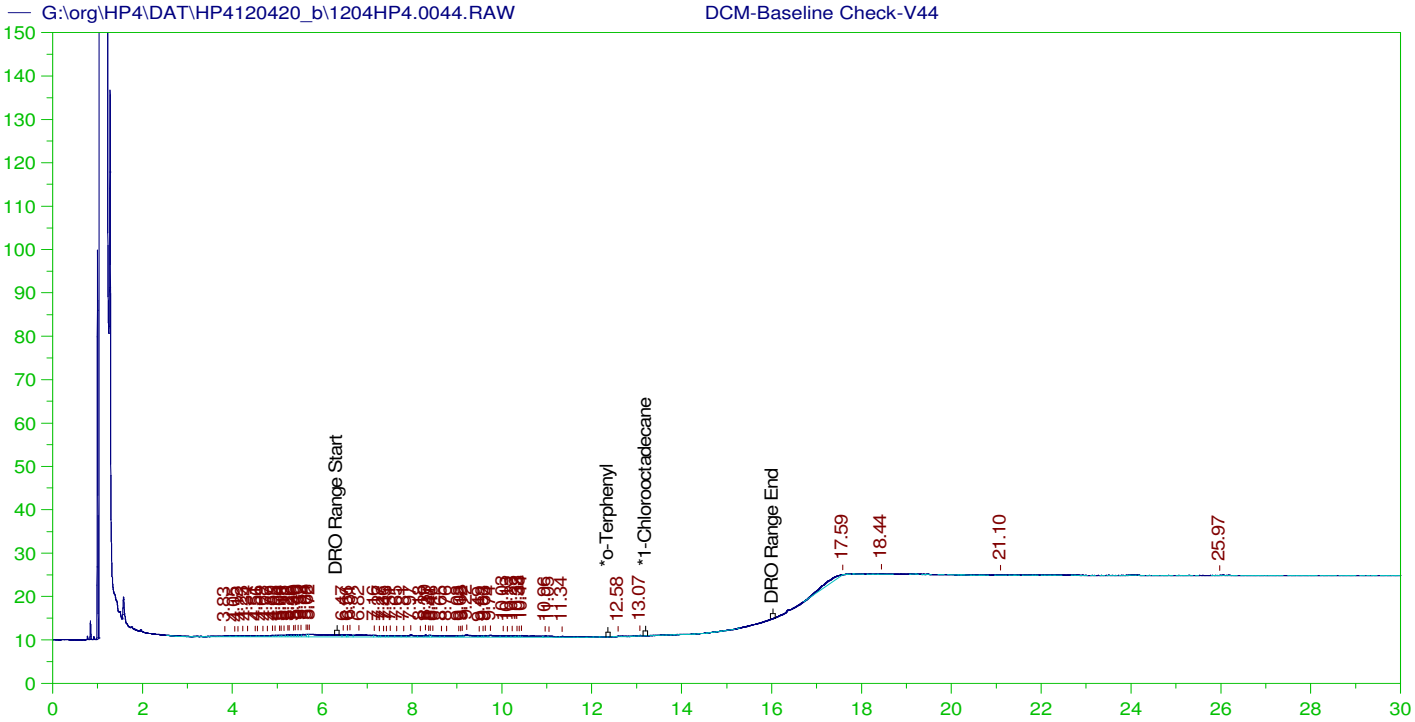
DRO Area:8.211237E+07 DRO Amount: 3154.583
TEH Area:1.000372E+08 TEH Amount: 3843.216

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0043.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3843.22 | 25.62 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.691 | 200. | 200.852 | 100.43 | 85-115 |
| *1-Chlorooctadecane | 13.503 | 200. | 159.448 | 79.72 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\043_CCV_1204HP443r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

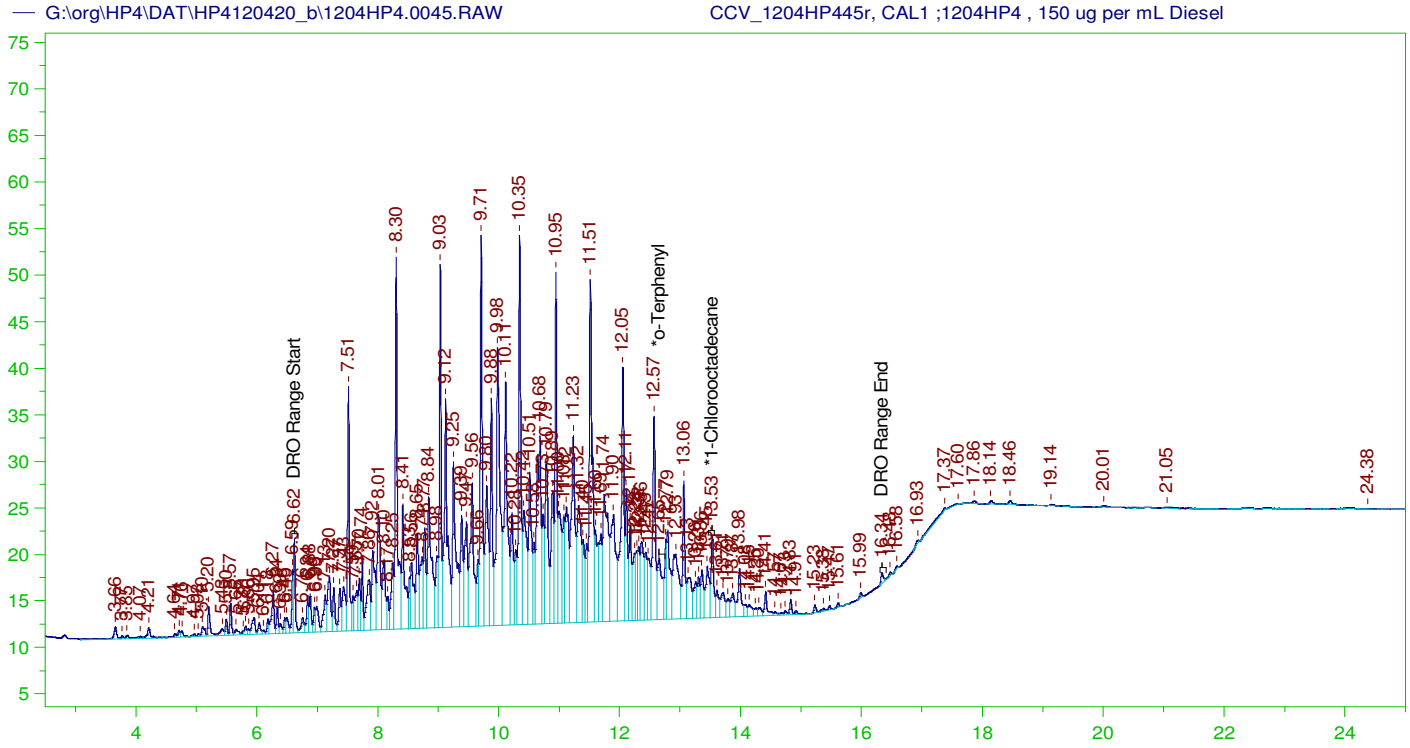
Sample Name: DCM-Baseline Check-V44
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0044.RAW
Date & Time Acquired: 12/5/2020 6:47:23 PM
Method File: G:\Org\HP4\Methods\DR_8015-LV-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO200127LV.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26131.15
Rt range for Diesel Range Organics: 6.275 to 16.08

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.902 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.902 | 200. | . | . | - |

DRO Area:83801.18 DRO Amount: 3.206945
TEH Area:173265 TEH Amount: 6.630591

G:\org\HP4\dat\HP4120420_b\Review\044_DCM-Baseline Chec_DR_8015-LV-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP445r, CAL1 ;1204HP4 , 150 ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0045.RAW
Date & Time Acquired: 12/5/2020 7:32:16 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.654 | 200. | 1.165 | .58 | - |
| *1-Chlorooctadecane | 13.532 | 200. | .83 | .42 | - |

DRO Area:3614752 DRO Amount: 138.8711
TEH Area:3738542 TEH Amount: 143.6269

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0045.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 143.63 | .96 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.654 | 200. | 1.165 | .58 | 85-115 |
| *1-Chlorooctadecane | 13.532 | 200. | .83 | .42 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\045_CCV_1204HP445r_DC_8015-MA-L%.xls

Write Sequence

Insert Entries(Have the first cell for entries selected)

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| :\org\HP4\DAT\HP4120420_b\1204HP4.01r | DCM-Baseline Check-V01 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.02r | CCV_1204HP402r, DRO ;1204HP4 , DRO201106B | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.03r | DCM-Baseline Check-V03 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.04r | CCV_1204HP404r, CAL1 ;1204HP4 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.63 and slightly after the surrogate peak at 13.23 and scaling showing surrogate peak from 11.5-14. |
| :\org\HP4\DAT\HP4120420_b\1204HP4.05r | CCV_1204HP405r, CAL2 ;1204HP4 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.63 and slightly after the surrogate peak at 13.23 and scaling showing surrogate peak from 11.5-14. |
| :\org\HP4\DAT\HP4120420_b\1204HP4.06r | CCV_1204HP406r, CAL3 ;1204HP4 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.63 and slightly after the surrogate peak at 13.23 and scaling showing surrogate peak from 11.5-14. |
| :\org\HP4\DAT\HP4120420_b\1204HP4.07r | CCV_1204HP407r, CAL4 ;1204HP4 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.63 and slightly after the surrogate peak at 13.23 and scaling showing surrogate peak from 11.5-14. |
| :\org\HP4\DAT\HP4120420_b\1204HP4.08r | CCV_1204HP408r, CAL5 ;1204HP4 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO20420B + 750 DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.63 and slightly after the surrogate peak at 13.23 and scaling showing surrogate peak from 11.5-14. |
| :\org\HP4\DAT\HP4120420_b\1204HP4.10r | CCV_1204HP410r, CAL2 ;1204HP4 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| :\org\HP4\DAT\HP4120420_b\1204HP4.11r | CCV_1204HP411r, CAL3 ;1204HP4 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| :\org\HP4\DAT\HP4120420_b\1204HP4.12r | CCV_1204HP412r, CAL4 ;1204HP4 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| :\org\HP4\DAT\HP4120420_b\1204HP4.13r | CCV_1204HP413r, CAL5 ;1204HP4 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| :\org\HP4\DAT\HP4120420_b\1204HP4.14r | CCV_1204HP418r, Second Source ;1204HP4 , 15000 ug per mL (100uL of DRO191002A + 900uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| :\org\HP4\DAT\HP4120420_b\1204HP4.42r | DCM-Baseline Check-V42 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.43r | CCV_1204HP443r, DRO ;1204HP4 , DRO201106B | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.44r | DCM-Baseline Check-V44 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.45r | CCV_1204HP445r, CAL1 ;1204HP4 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13285), then 100 uL of that + 100 uL of DCM (13285)) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.19 15:43:42 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*13-Oct-21*

**Run ID** GCFID-HP4-B_211006B

**Run Start Date:** 10/6/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015C Oil Range

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL-OIL | 8/31/2025 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In DCM | | | | | Second Sou | 9/1/2026 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764069 | CCV_1006HP41 | HC-8015-DRO- | CAL1 | | 10/7/2021 12:16: | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1652093 | | 0.15 | 0 | 0 | 0 | 0.3 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764070 | CCV_1006HP41 | HC-8015-DRO- | CAL2 | | 10/7/2021 1:47:3 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.022149 | | 1 | 0 | 0 | 0 | 0.3 | 0 | 102% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764071 | CCV_1006HP41 | HC-8015-DRO- | CAL3 | | 10/7/2021 3:19:0 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.956371 | | 5 | 0 | 0 | 0 | 0.3 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764072 | CCV_1006HP41 | HC-8015-DRO- | CAL4 | | 10/7/2021 4:50:1 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764072 | CCV_1006HP41 | HC-8015-DRO- | CAL4 | | 10/7/2021 4:50:1 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.79833 | | 15 | 0 | 0 | 0 | 0.3 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764073 | CCV_1006HP42 | HC-8015-DRO- | CAL5 | | 10/7/2021 6:21:2 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 29.29968 | | 30 | 0 | 0 | 0 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764074 | CCV_1006HP42 | HC-8015-DRO- | ICV | | 10/7/2021 9:21:4 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.390338 | | 5 | 0 | 0 | 0 | 0.3 | 0 | 108% | 80 | 120 | 0% | |

Write Sequence

Insert Entries(Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP4\DAT\HP4100621_b\1006HP4.11r | CCV_1006HP411r, CSCAN ;1006HP4 , DRO210708A | g:\org\HP4\Methods\CSC211006.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.12r | DCM-Baseline Check-V12 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.13r | CCV_1006HP413r, CAL1 ;1006HP4 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-13-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.14r | DCM-Baseline Check-V14 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.15r | CCV_1006HP415r, CAL2 ;1006HP4 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-15-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.16r | DCM-Baseline Check-V16 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.17r | CCV_1006HP417r, CAL3 ;1006HP4 , 5000 ug per mL Oil (200 uL of Cal 4 + 400 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.18r | DCM-Baseline Check-V18 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.19r | CCV_1006HP419r, CAL4 ;1006HP4 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-19-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.20r | DCM-Baseline Check-V20 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.21r | CCV_1006HP423r, CAL5 ;1006HP4 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM)(14354) | G:\Org\HP4\methods\DR_8015-21-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.22r | DCM-Baseline Check-V22 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.23r | DCM-Baseline Check-V23 | G:\Org\HP4\methods\D3_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.24r | DCM-Baseline Check-V24 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.25r | CCV_1006HP425r, Second Source ;1006HP4 , 5000 ug per mL Oil (100 uL of DRO210902A + 900 uL of DCM) | G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Version: 7

Creator: AMN
Description: 8015C-DRO. New ICal Per 1106HP4 (2021)-2 uL Inj.; Oil Range-OTP/COD was copied from 8015 Diesel calibration
Reason for change:

External standard calibration

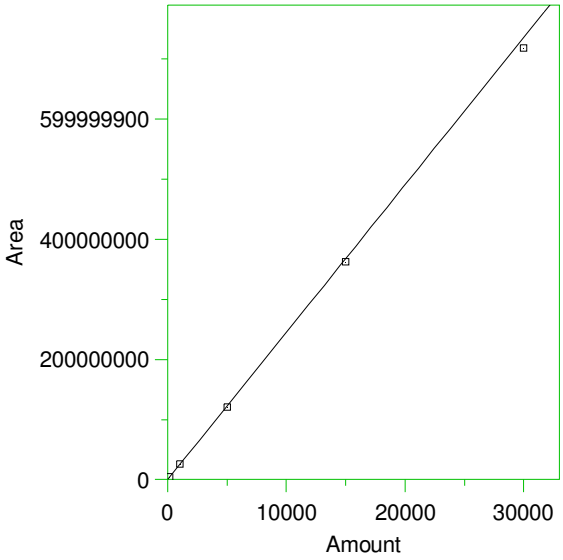
| | |
|---|---|
| Standard injection volume: | 1 |
| Standard sample weight: | 1 |
| Area reject threshold: | 500 |
| Reference peak area reject threshold: | 500 |
| Amount units: | nanograms |

No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




Expected retention time: 6.14 minutes
Search window: 0.05 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

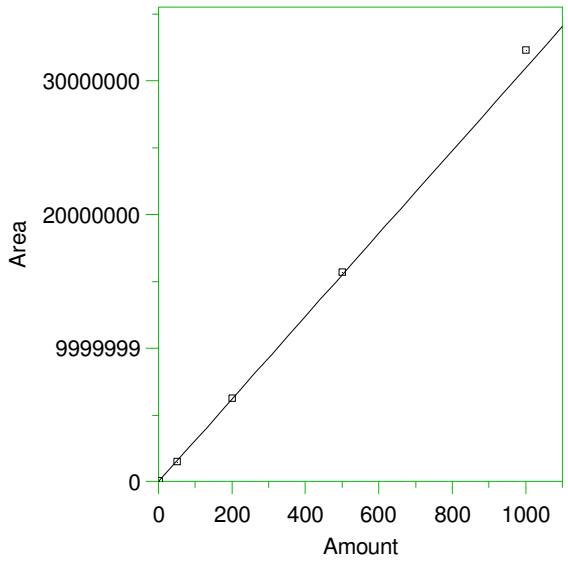
Single peak quantification by area

Y = 24529.56 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9990484
Average error: 1.972%
Average CF: 24529.56
RSD: 2.304%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3765836 | 25105.57 | 2.348 | Manual | 10/12/2021 8:17:21 AM |
| 2 | 1000 | 2.516261E+07 | 25162.61 | 2.581 | Manual | 10/12/2021 8:17:24 AM |
| 3 | 5000 | 1.213971E+08 | 24279.42 | -1.020 | Manual | 10/12/2021 8:17:44 AM |
| 4 | 15000 | 3.623479E+08 | 24156.53 | -1.521 | Manual | 10/12/2021 8:17:41 AM |
| 5 | 30000 | 7.183105E+08 | 23943.68 | -2.388 | Manual | 10/12/2021 8:17:38 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.15 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

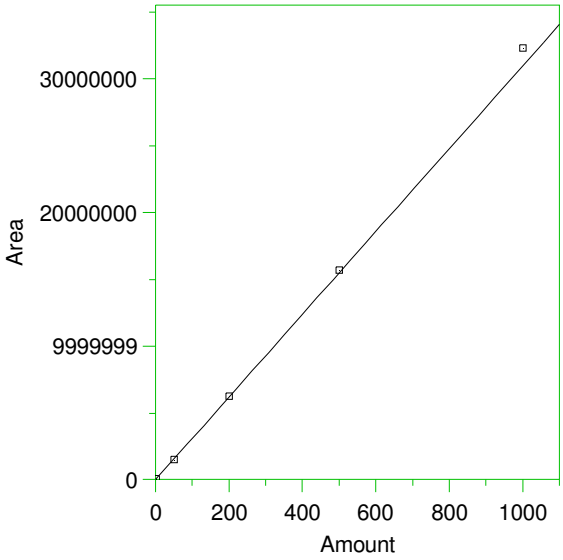
Y = 30968.61 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9973109 |
| Average error: | 2.879% |
| Average CF: | 30968.61 |
| RSD: | 3.508% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 59594.86 | 29797.43 | -3.782 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0004.BND | 12/7/2020 10:27:32 AM |
| 2 | 50 | 1495522 | 29910.44 | -3.417 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0005.BND | 12/7/2020 10:27:37 AM |
| 3 | 200 | 6283151 | 31415.76 | 1.444 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0006.BND | 12/7/2020 10:28:12 AM |
| 4 | 500 | 1.569503E+07 | 31390.06 | 1.361 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0007.BND | 12/7/2020 10:28:17 AM |
| 5 | 1000 | 3.232935E+07 | 32329.35 | 4.394 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0008.BND | 12/7/2020 10:28:22 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.99 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

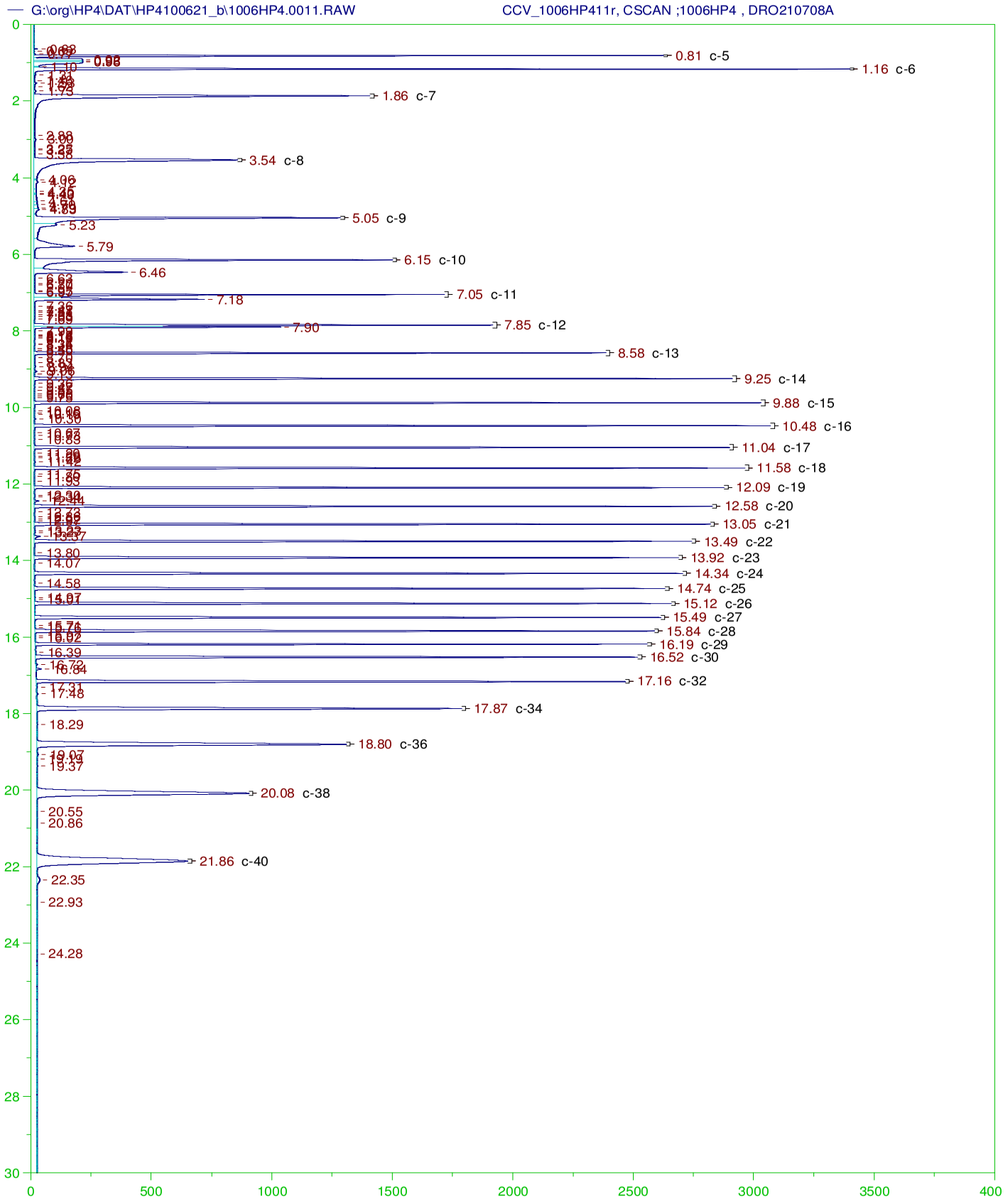
Single peak quantification by area

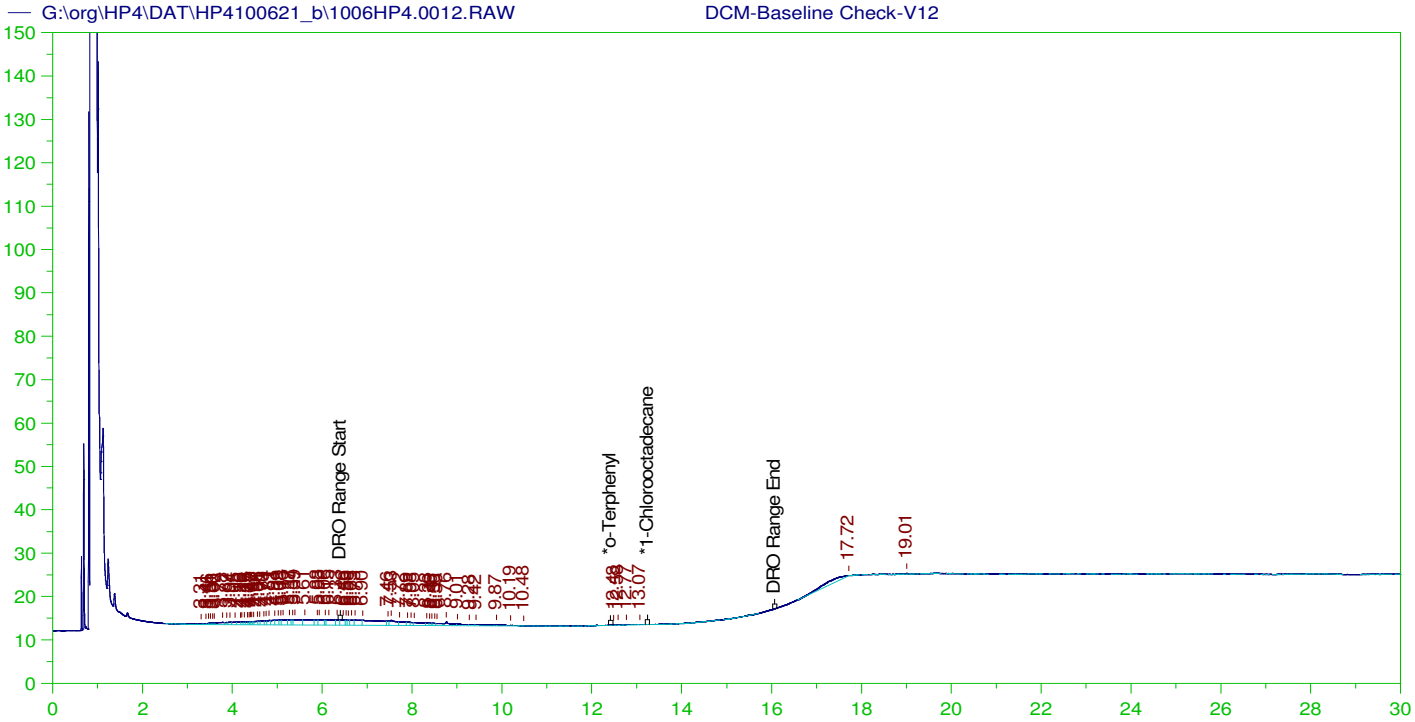
Y = 30968.61 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9973109 |
| Average error: | 2.879% |
| Average CF: | 30968.61 |
| RSD: | 3.508% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 59594.86 | 29797.43 | -3.782 | Manual | 12/7/2020 10:28:30 AM |
| 2 | 50 | 1495522 | 29910.44 | -3.417 | Manual | 12/7/2020 10:28:35 AM |
| 3 | 200 | 6283151 | 31415.76 | 1.444 | Manual | 12/7/2020 10:28:37 AM |
| 4 | 500 | 1.569503E+07 | 31390.06 | 1.361 | Manual | 12/7/2020 10:28:53 AM |
| 5 | 1000 | 3.232935E+07 | 32329.35 | 4.394 | Manual | 12/7/2020 10:28:55 AM |


G:\org\HP4\DAT\HP4100621_b\1006HP4.0011.RAW
CCV_1006HP411r, CSCAN ;1006HP4 , DRO210708A
0.81 c-5
1.16 c-6
1.86 c-7
3.54 c-8
5.05 c-9
6.15 c-10
7.05 c-11
7.85 c-12
8.58 c-13
9.25 c-14
9.88 c-15
10.48 c-16
11.04 c-17
11.58 c-18
12.09 c-19
12.58 c-20
13.05 c-21
13.49 c-22
13.92 c-23
14.34 c-24
14.74 c-25
15.12 c-26
15.49 c-27
15.84 c-28
16.19 c-29
16.52 c-30
17.16 c-32
17.87 c-34
18.80 c-36
20.08 c-38
21.86 c-40
G:\org\HP4\dat\HP4100621_b\Review\011_CCV_1006HP411r_CSC211006.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

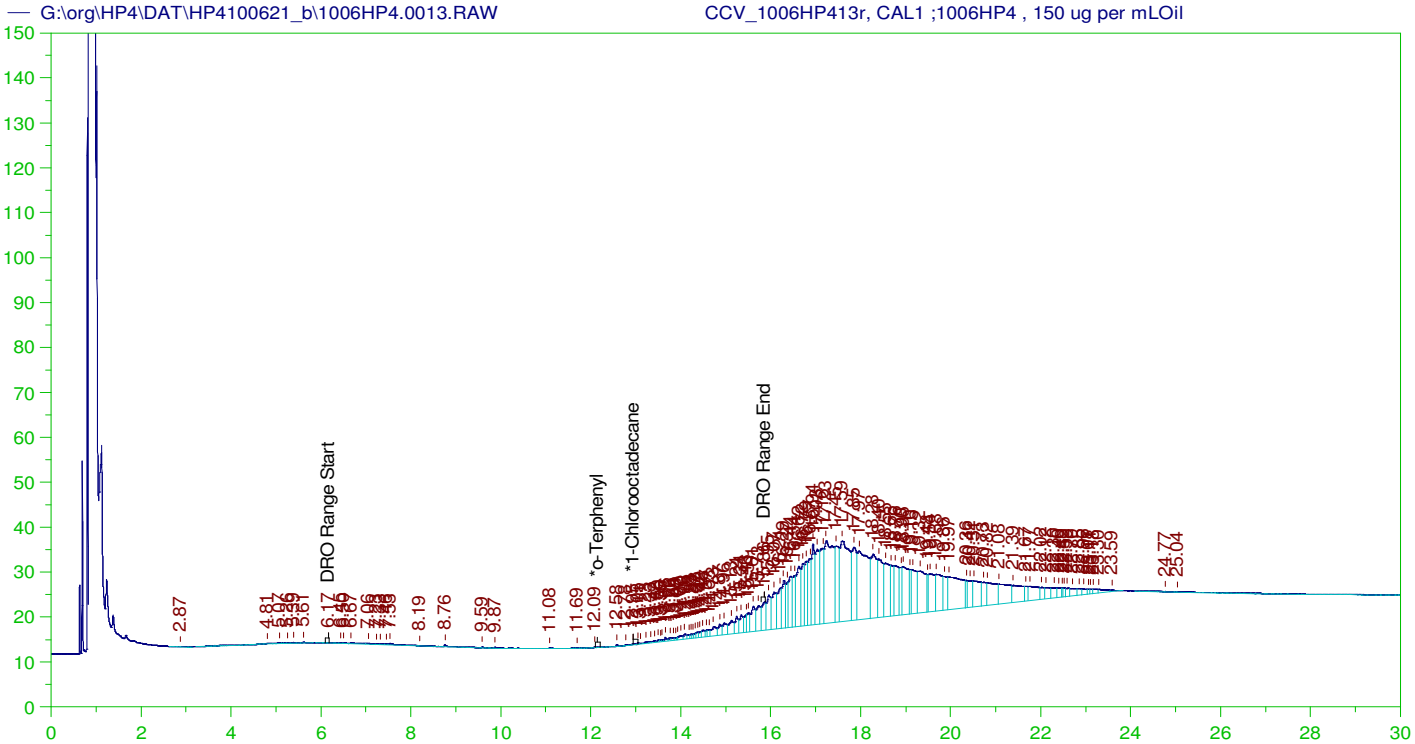
Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0012.RAW
Date & Time Acquired: 10/6/2021 11:30:37 PM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.914 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.914 | 200. | . | . | - |

DRO Area:151604.2 DRO Amount: 5.824311
TEH Area:344150.3 TEH Amount: 13.22152

G:\org\HP4\dat\HP4100621_b\Review\012_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP413r, CAL1 ;1006HP4 , 150 ug per mLOil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0013.RAW
Date & Time Acquired: 10/7/2021 12:16:08 AM
Method File: G:\Org\HP4\methods\DR_8015-13-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 29.973 | 200. | . | . - |
| *1-Chlorooctadecane | 12.946 | 200. | .024 | .01 - |

DRO Area:350454.1 DRO Amount: 14.28701
TEH (OiL Range) Area:4052512 TEH (Oil Range)Amount: 165.2093

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 165.21 | 3.3 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.973 | 200. | . | . | 85-115 |
| *1-Chlorooctadecane | 12.946 | 200. | .024 | .01 | 85-115 |

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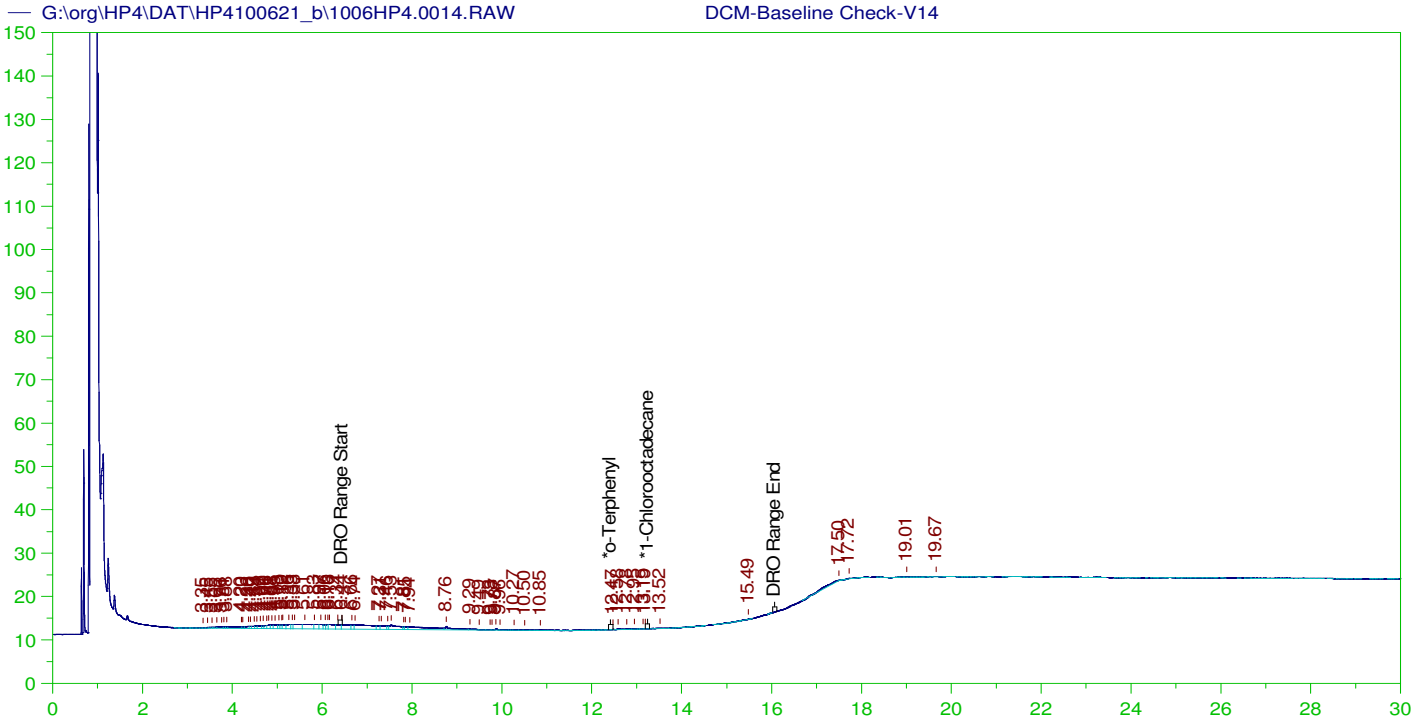
G:\org\HP4\dat\HP4100621_b\Review\013_CCV_1006HP413r_DR_8015-13-OIL-AA-L%.xls



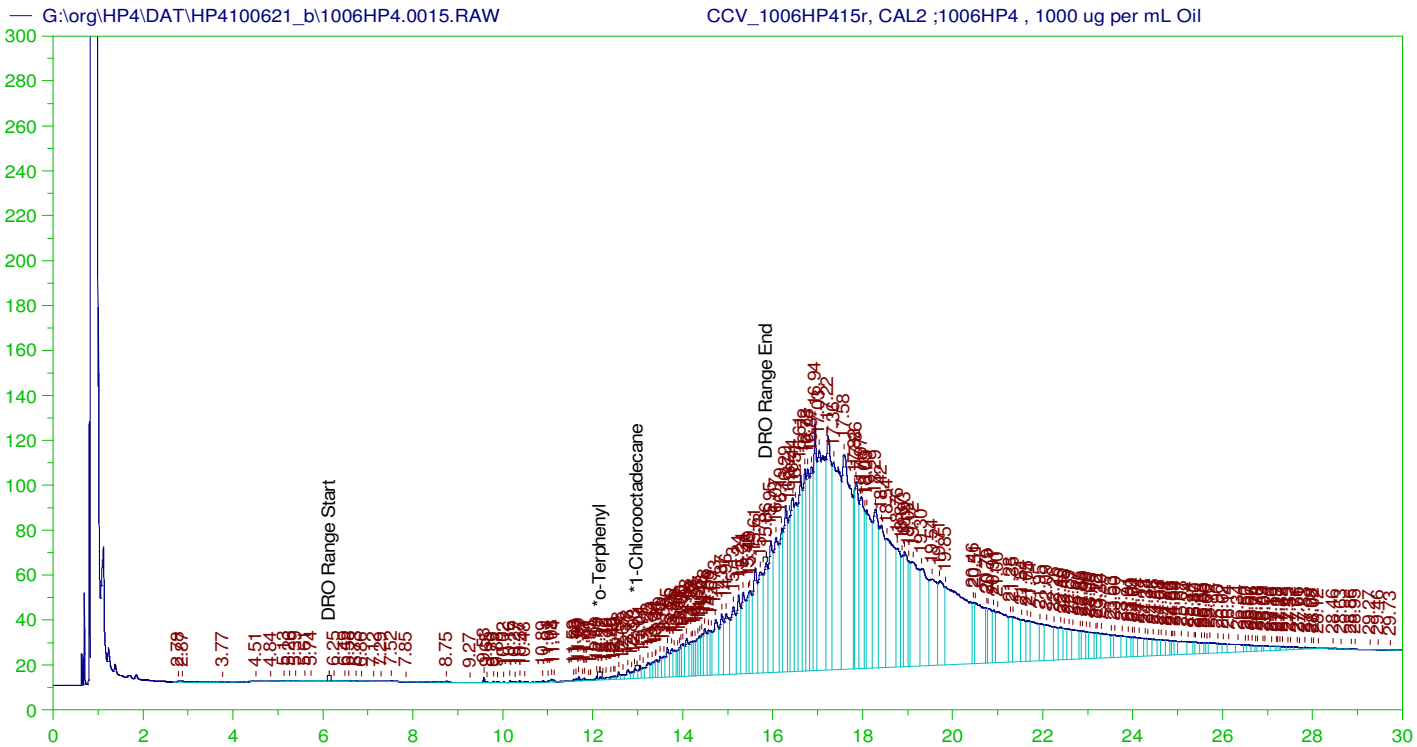

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0014.RAW
Date & Time Acquired: 10/7/2021 1:01:51 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.884 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.884 | 200. | . | . | - |

DRO Area:131624.4 DRO Amount: 5.056731
TEH Area:277425.9 TEH Amount: 10.65811




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP415r, CAL2 ;1006HP4 , 1000 ug per mL Oil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0015.RAW
Date & Time Acquired: 10/7/2021 1:47:37 AM
Method File: G:\Org\HP4\methods\DR_8015-15-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | 200. | .147 | .07 | - |
| *1-Chlorooctadecane | 29.932 | 200. | . | . | - |

DRO Area:3765940 DRO Amount: 153.5266
TEH (Oil Range) Area:2.507288E+07 TEH (Oil Range)Amount: 1022.149

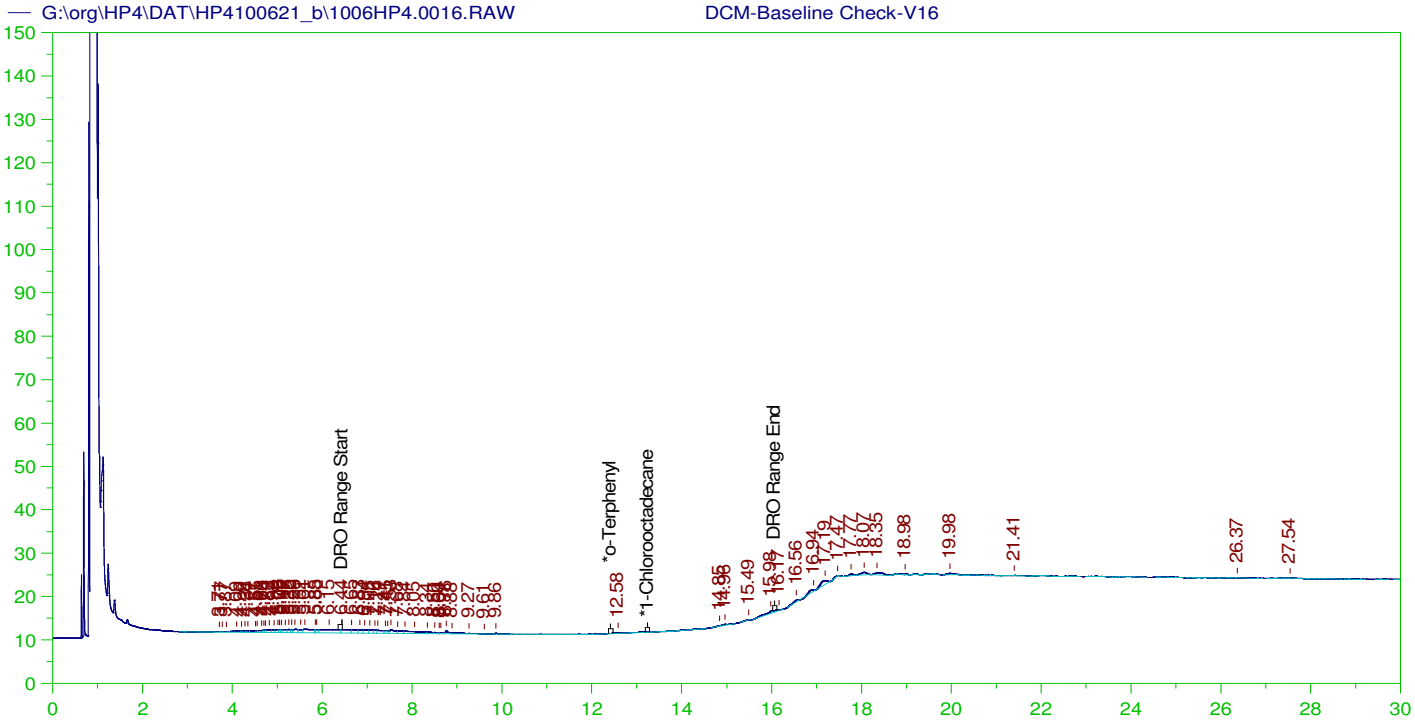
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1022.15 | 20.44 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | 200. | .147 | .07 | 85-115 |
| *1-Chlorooctadecane | 29.932 | 200. | . | . | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\015_CCV_1006HP415r_DR_8015-15-OIL-AA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

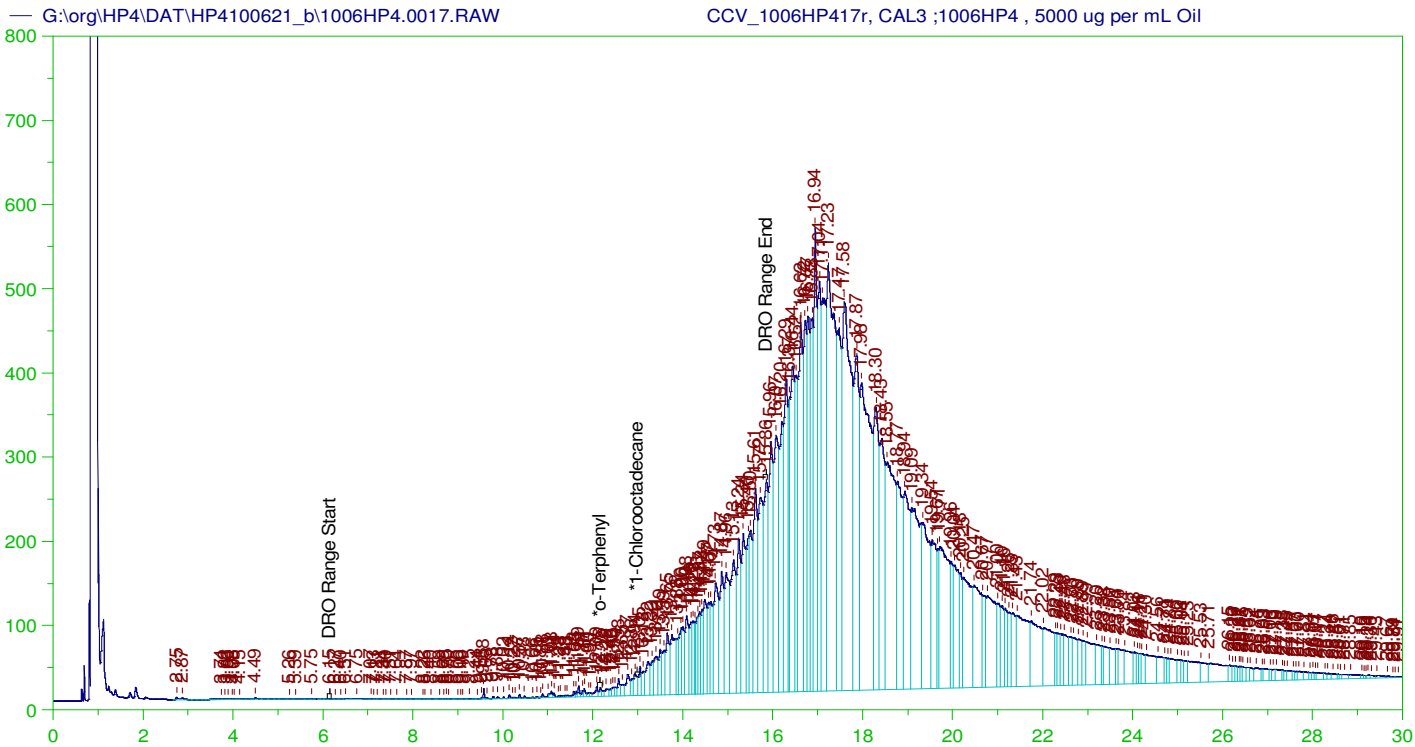
Sample Name: DCM-Baseline Check-V16
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0016.RAW
Date & Time Acquired: 10/7/2021 2:33:20 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.907 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.907 | 200. | . | . | - |

DRO Area:114216.7 DRO Amount: 4.387964
TEH Area:265335.9 TEH Amount: 10.19364

G:\org\HP4\dat\HP4100621_b\Review\016_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP417r, CAL3 ;1006HP4 , 5000 ug per mL Oil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0017.RAW
Date & Time Acquired: 10/7/2021 3:19:06 AM
Method File: G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.165 | 200. | 1.127 | .56 | - |
| *1-Chlorooctadecane | 29.907 | 200. | . | . | - |

DRO Area:2.051403E+07 DRO Amount: 836.2982
TEH (Oil Range) Area:1.215776E+08 TEH (Oil Range) Amount: 4956.371

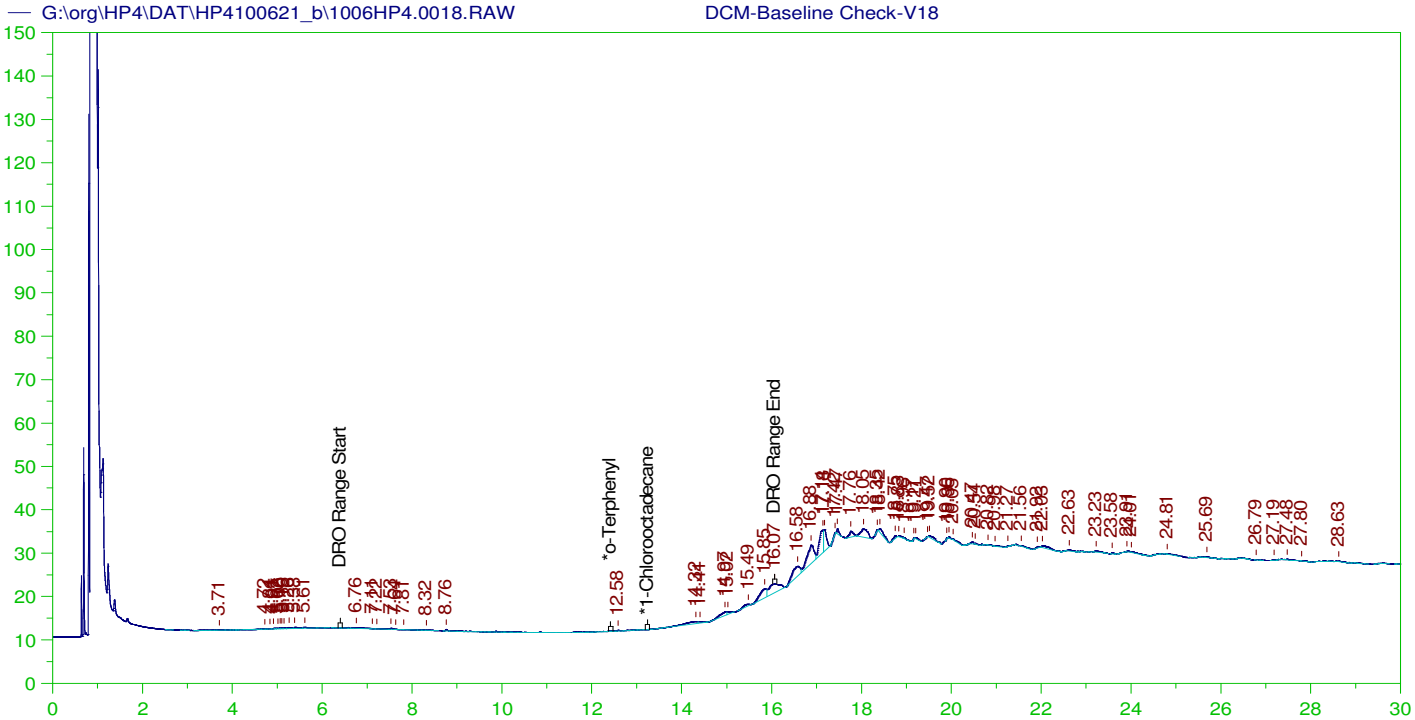
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0017.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4956.37 | 99.13 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.165 | 200. | 1.127 | .56 | 85-115 |
| *1-Chlorooctadecane | 29.907 | 200. | . | . | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\017_CCV_1006HP417r_DR_8015-17-OIL-AA-L%.xls



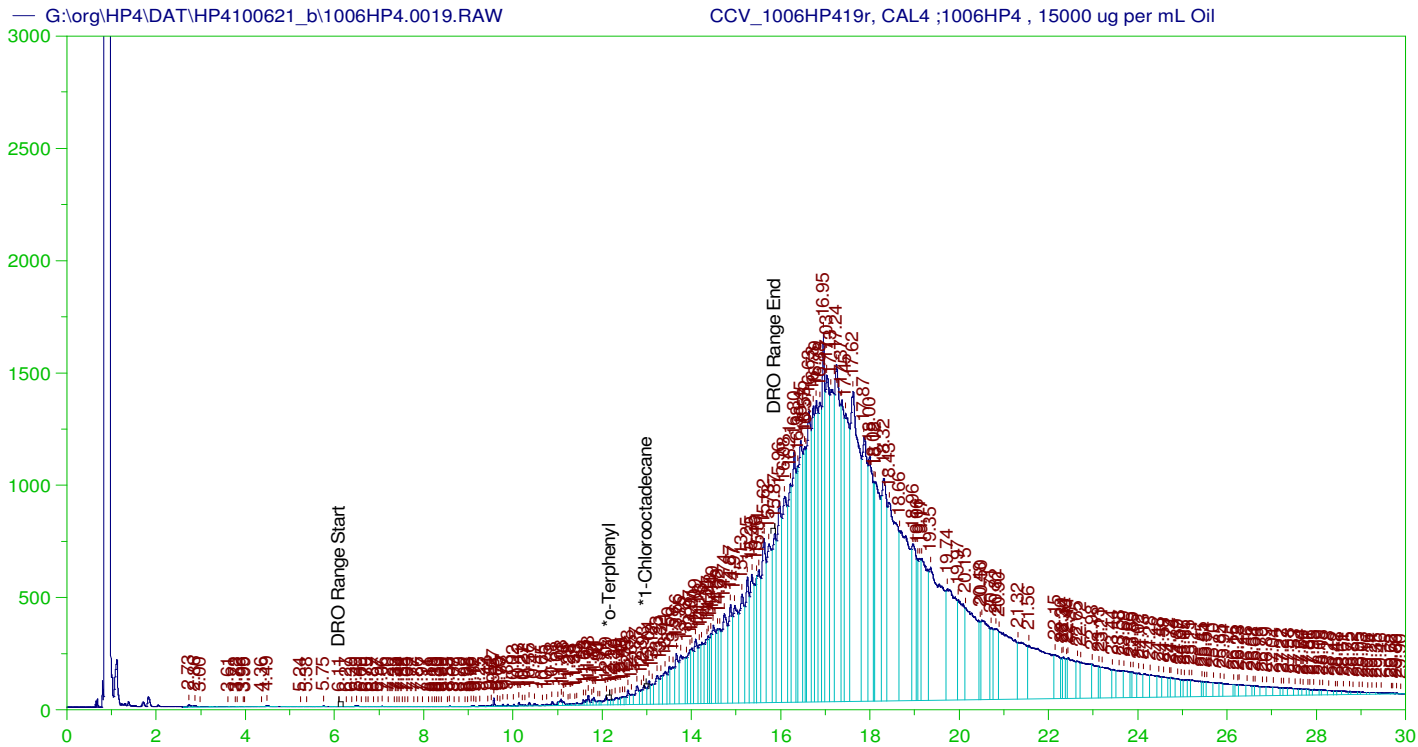

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V18
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0018.RAW
Date & Time Acquired: 10/7/2021 4:04:45 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.931 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.931 | 200. | . | . | - |

DRO Area:108588.8 DRO Amount: 4.171752
TEH Area:364372 TEH Amount: 13.9984




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP419r, CAL4 ;1006HP4 , 15000 ug per mL Oil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0019.RAW
Date & Time Acquired: 10/7/2021 4:50:17 AM
Method File: G:\Org\HP4\methods\DR_8015-19-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | 200. | 2.668 | 1.33 | - |
| *1-Chlorooctadecane | 29.898 | 200. | . | . | - |

DRO Area:6.321696E+07 DRO Amount: 2577.175
TEH (Oil Range) Area:3.629964E+08 TEH (Oil Range) Amount: 14798.33

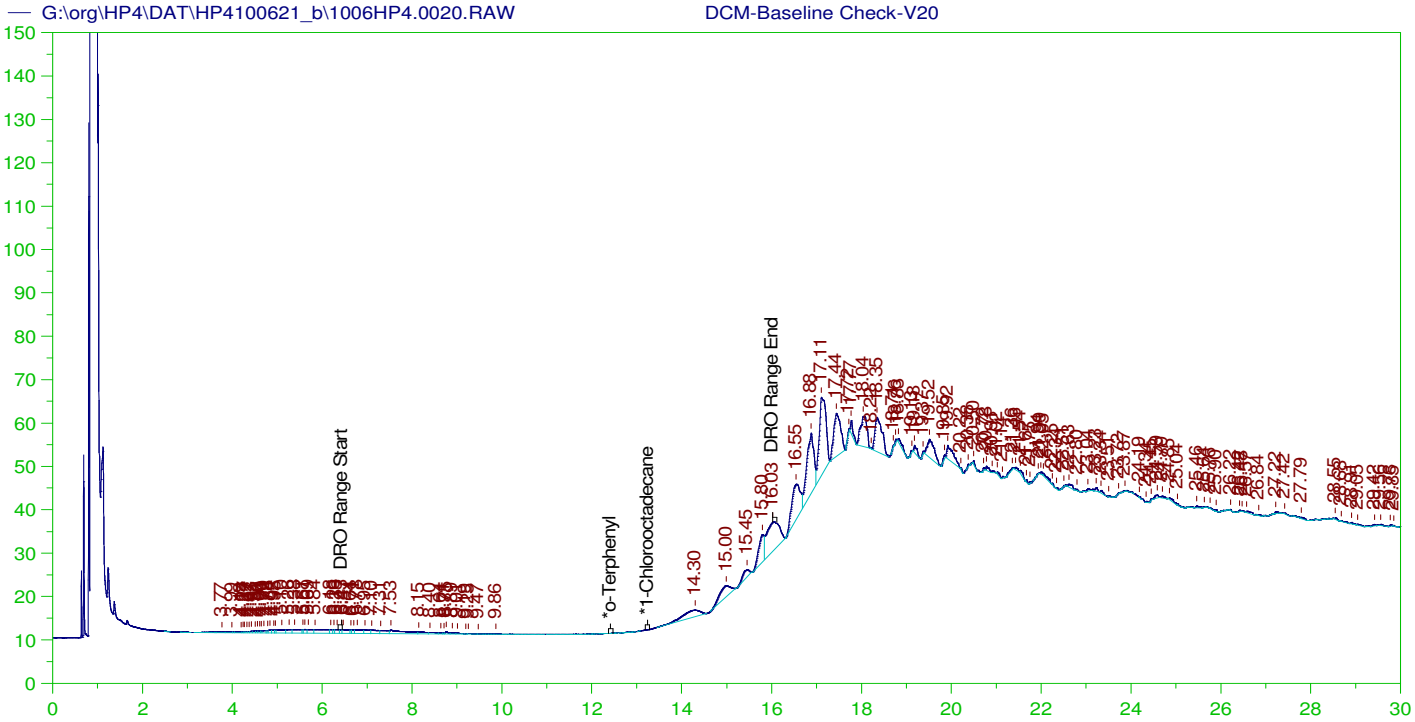
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14798.33 | 295.97 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | 200. | 2.668 | 1.33 | 85-115 |
| *1-Chlorooctadecane | 29.898 | 200. | . | . | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\019_CCV_1006HP419r_DR_8015-19-OIL-AA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

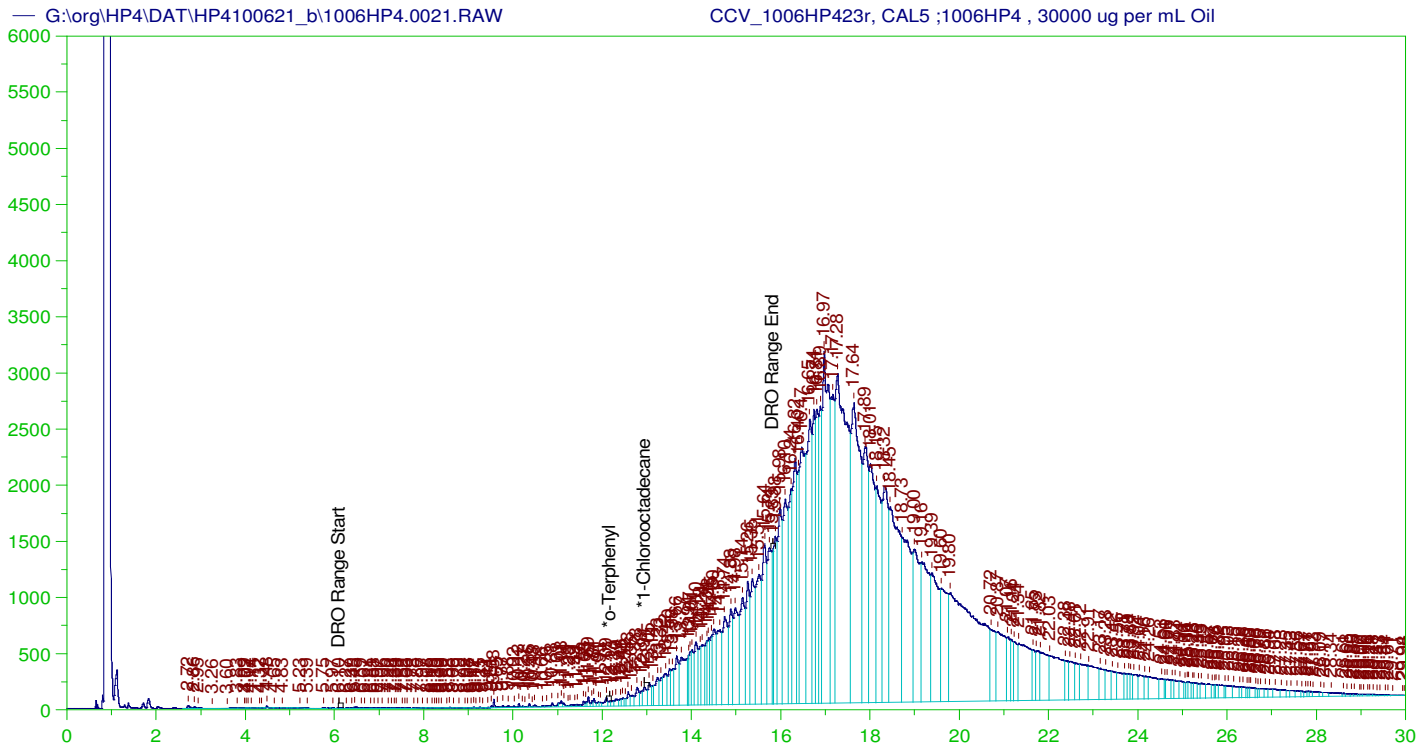
Sample Name: DCM-Baseline Check-V20
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0020.RAW
Date & Time Acquired: 10/7/2021 5:35:48 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.983 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.983 | 200. | . | . | - |

DRO Area:396511 DRO Amount: 15.23311
TEH Area:1438866 TEH Amount: 55.27819

G:\org\HP4\dat\HP4100621_b\Review\020_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP423r, CAL5 ;1006HP4 , 30000 ug per mL Oil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0021.RAW
Date & Time Acquired: 10/7/2021 6:21:29 AM
Method File: G:\Org\HP4\methods\DR_8015-21-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | 5.119 | 2.56 | - |
| *1-Chlorooctadecane | 12.944 | 200. | 32.459 | 16.23 | - |

DRO Area:1.18208E+08 DRO Amount: 4819.003
TEH (Oil Range) Area:7.187084E+08 TEH (Oil Range) Amount: 29299.68

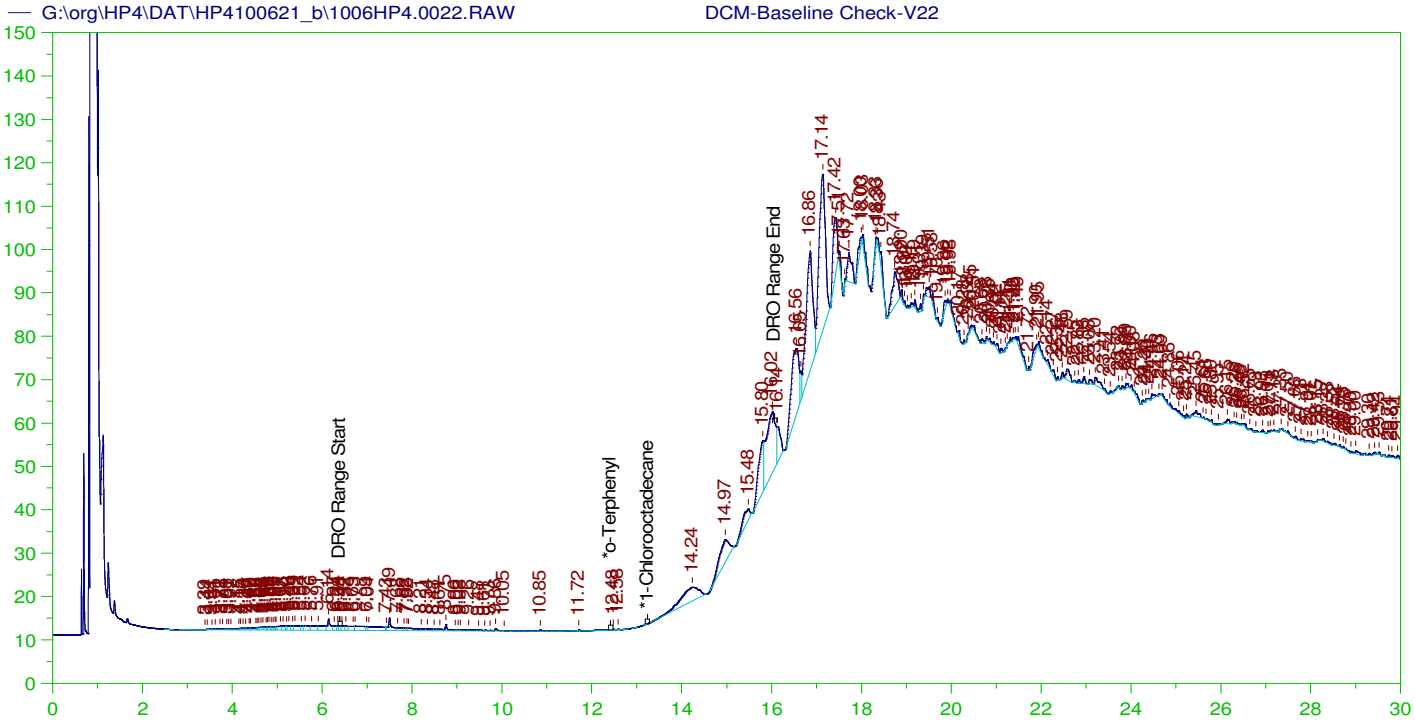
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0021.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 29299.68 | 585.99 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | 5.119 | 2.56 | 85-115 |
| *1-Chlorooctadecane | 12.944 | 200. | 32.459 | 16.23 | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\021_CCV_1006HP423r_DR_8015-21-OIL-AA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

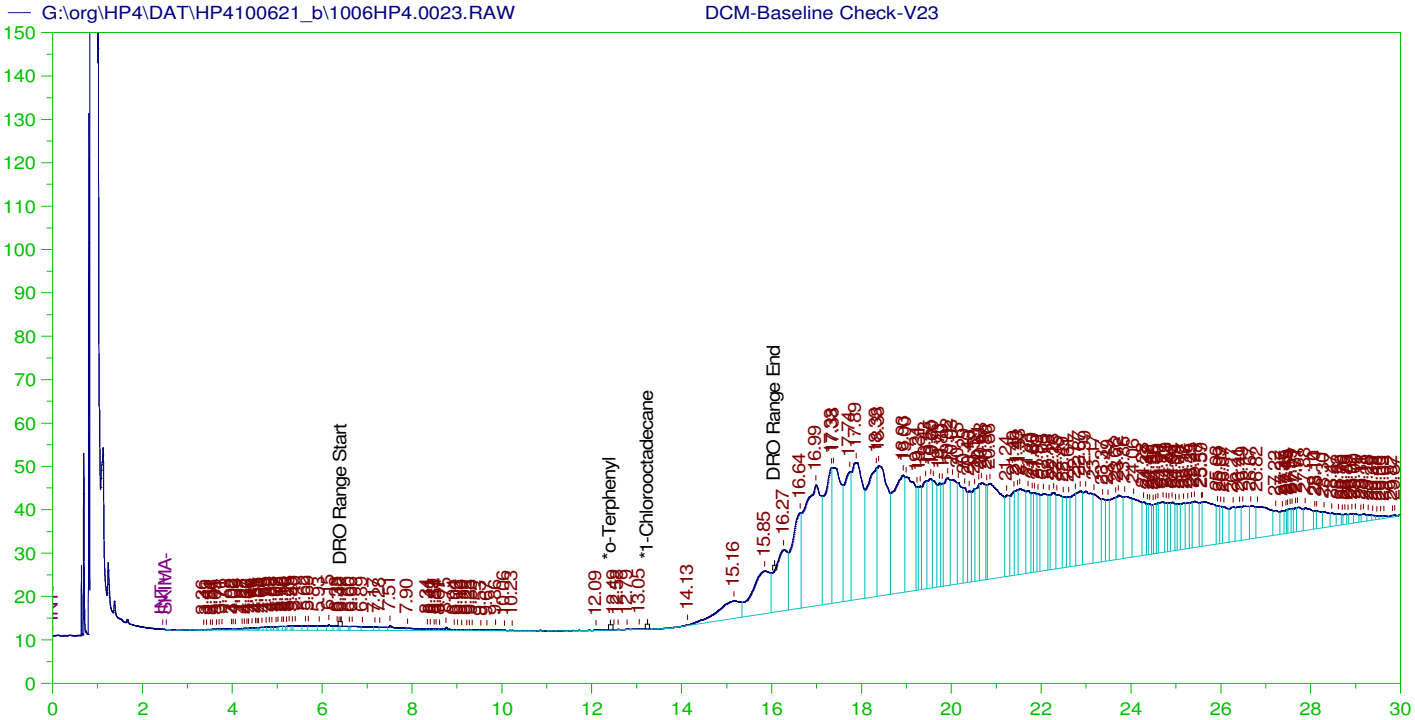
Sample Name: DCM-Baseline Check-V22
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0022.RAW
Date & Time Acquired: 10/7/2021 7:06:39 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.94 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.94 | 200. | . | . | - |

DRO Area:659389.9 DRO Amount: 25.33236
TEH Area:2246216 TEH Amount: 86.29485

G:\org\HP4\dat\HP4100621_b\Review\022_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

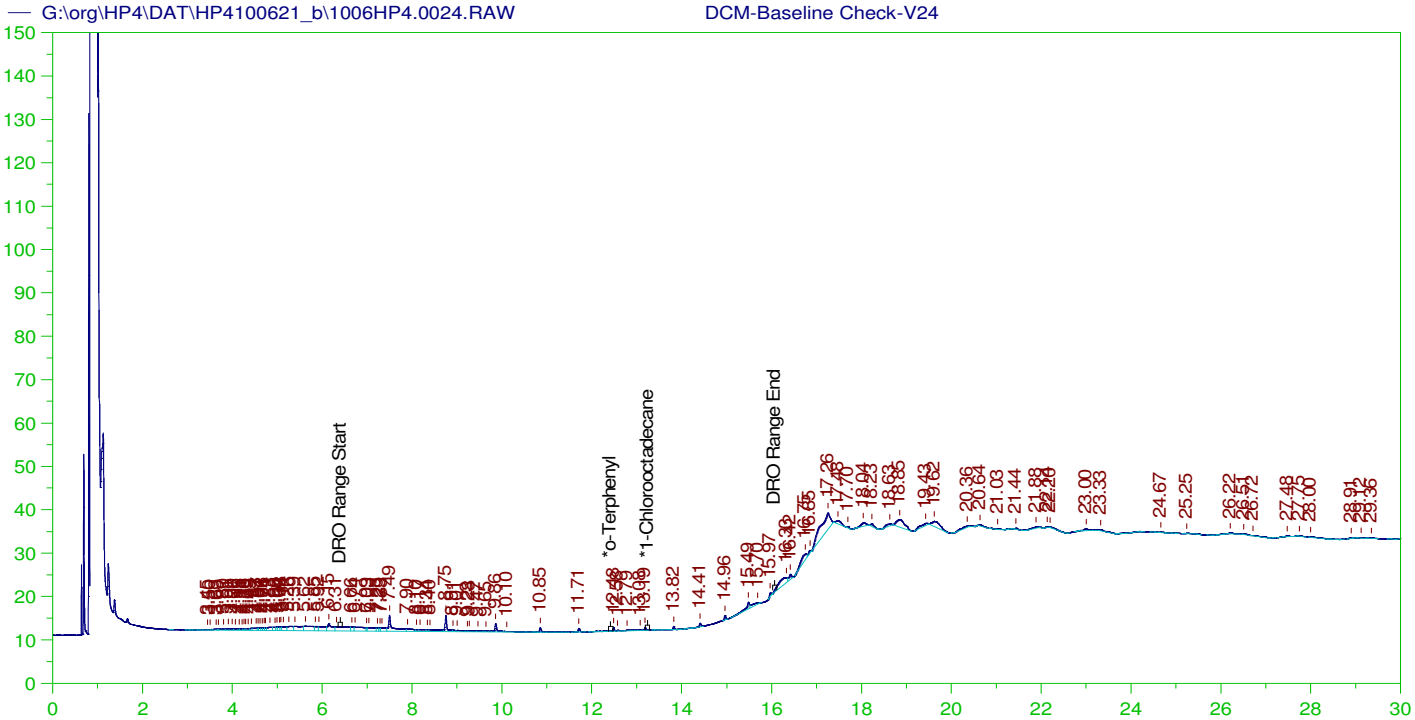
Sample Name: DCM-Baseline Check-V23
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0023.RAW
Date & Time Acquired: 10/7/2021 7:51:25 AM
Method File: G:\Org\HP4\methods\D3_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.979 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | - |

DRO Area:556661.1 DRO Amount: 21.38574
TEH Area:1.320998E+07 TEH Amount: 507.4994

G:\org\HP4\dat\HP4100621_b\Review\023_DCM-Baseline Chec_D3_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

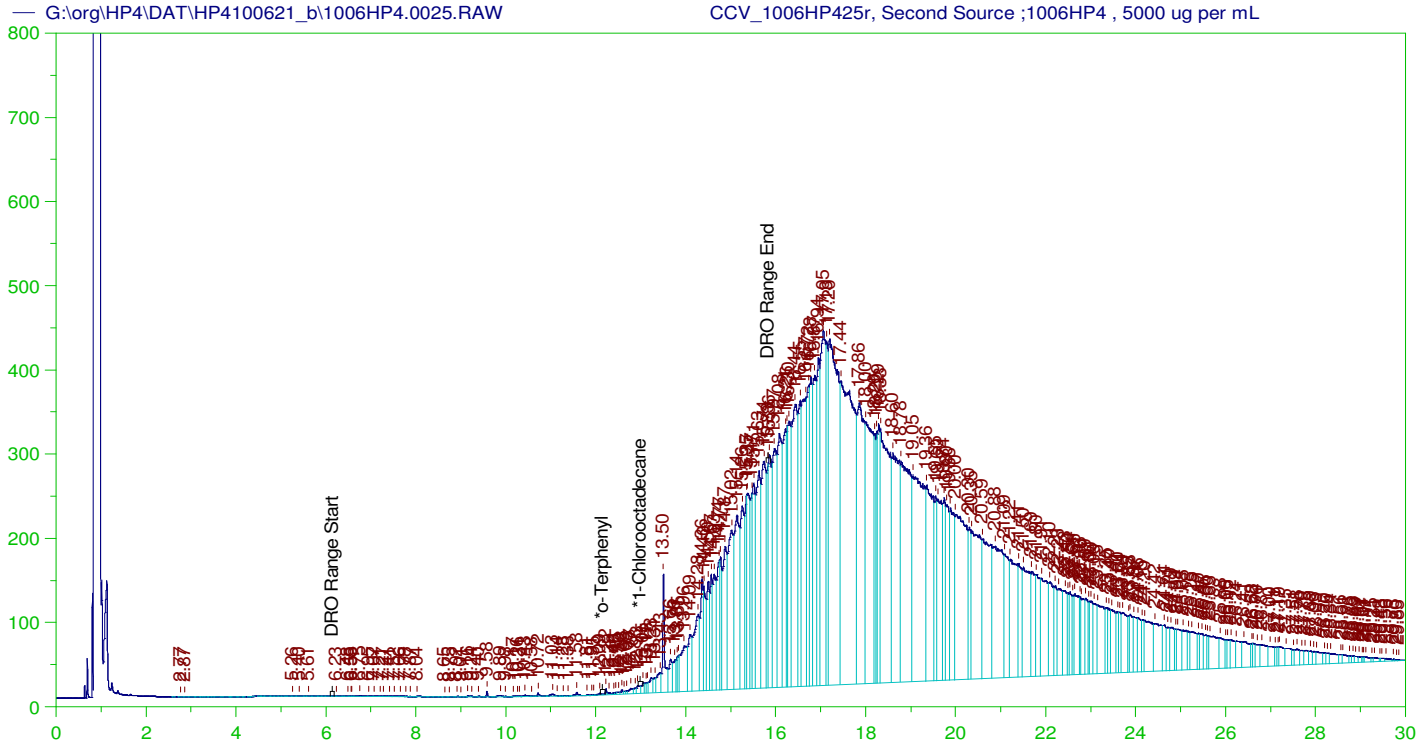
Sample Name: DCM-Baseline Check-V24
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0024.RAW
Date & Time Acquired: 10/7/2021 8:36:35 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.993 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.993 | 200. | . | . | - |

DRO Area:143991.1 DRO Amount: 5.531833
TEH Area:496648.4 TEH Amount: 19.08018

G:\org\HP4\dat\HP4100621_b\Review\024_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP425r, Second Source ;1006HP4 , 5000 ug per mL
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0025.RAW
Date & Time Acquired: 10/7/2021 9:21:40 AM
Method File: G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 29.852 | 200. | . | . - |
| *1-Chlorooctadecane | 29.852 | 200. | . | . - |

DRO Area:2.19787E+07 DRO Amount: 896.0085
TEH (Oil Range) Area:1.322226E+08 TEH (Oil Range) Amount: 5390.338

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0025.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5390.34 | 107.81 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.852 | 200. | . | . | 85-115 |
| *1-Chlorooctadecane | 29.852 | 200. | . | . | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\025_CCV_1006HP425r_DR_8015-17-OIL-AA-L%.xls

Write Sequence

Insert Entries(Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | **Manual Integrations** |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP4\DAT\HP4100621_b\1006HP4.11r | CCV_1006HP411r, CSCAN ;1006HP4 , DRO210708A | g:\org\HP4\Methods\CSC211006.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.12r | DCM-Baseline Check-V12 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.13r | CCV_1006HP413r, CAL1 ;1006HP4 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-13-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Set Baseline Now at 23.18 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.14r | DCM-Baseline Check-V14 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.15r | CCV_1006HP415r, CAL2 ;1006HP4 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-15-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Set Baseline Now at 28 .22 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.16r | DCM-Baseline Check-V16 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.17r | CCV_1006HP417r, CAL3 ;1006HP4 , 5000 ug per mL Oil (200 uL of Cal 4 + 400 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.18r | DCM-Baseline Check-V18 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.19r | CCV_1006HP419r, CAL4 ;1006HP4 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-19-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.20r | DCM-Baseline Check-V20 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.21r | CCV_1006HP423r, CAL5 ;1006HP4 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM)(14354) | G:\Org\HP4\methods\DR_8015-21-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.22r | DCM-Baseline Check-V22 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.23r | DCM-Baseline Check-V23 | G:\Org\HP4\methods\D3_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.24r | DCM-Baseline Check-V24 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.25r | CCV_1006HP425r, Second Source ;1006HP4 , 5000 ug per mL Oil (100 uL of DRO210902A + 900 uL of DCM) | G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.19 15:43:56 -06:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/9/2021 12:12:30 P**

Prep Batch **160178** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/11/2021 10:12:00 A**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MB-160178 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/9/2021 | 10/10/2021 |
| Start time: 12:10 PM, 10/9/2021. End time: 10/10/2021 at 6:20 AM. | | | | | | | | | | |
| LCS-160178 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/9/2021 | 10/10/2021 |
| AMN spiked and surrogated Lines 6-16. SGT carried out on 0.9 mL of remaining sample unless otherwise stated by ALN on 10/13/2021. | | | | | | | | | | |
| MB2-160178-Test | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/9/2021 | 10/10/2021 |
| LCS-160178-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/9/2021 | 10/10/2021 |
| All bottles were completely used and disposed of. | | | | | | | | | | |
| B21100756-001A | Aqueous | 2 | 1040 | 0 | 0 | 1.00 | 0.000957 | | 10/9/2021 | 10/10/2021 |
| Bottle 1/2. Clear. SGT was carried out on this sample. | | | | | | | | | | |
| B21100806-001A | Aqueous | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/10/2021 | 10/11/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100806-001AMS | Aqueous | 2 | 525 | 0 | 0 | 1.00 | 0.0019 | | 10/10/2021 | 10/11/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100806-001AMSD | Aqueous | 2 | 525 | 0 | 0 | 1.00 | 0.0019 | | 10/10/2021 | 10/11/2021 |
| Bottle 2/2. Clear. | | | | | | | | | | |
| B21100806-002A | Aqueous | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/10/2021 | 10/11/2021 |
| Bottle 1/2. Clear, light sediment. SGT carried out on 0.8 mL of remaining sample by ALN on 10/13/2021. | | | | | | | | | | |
| B21100806-002AMS-RRO | Aqueous | 2 | 510 | 0 | 0 | 1.00 | 0.00196 | | 10/10/2021 | 10/11/2021 |
| Bottle 2/2. Clear, light sediment. | | | | | | | | | | |
| B21100806-002AMSD-RRO | Aqueous | 2 | 510 | 0 | 0 | 1.00 | 0.00196 | | 10/10/2021 | 10/11/2021 |
| Bottle 2/2. Clear, light sediment. | | | | | | | | | | |
| B21100806-003A | Aqueous | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/10/2021 | 10/11/2021 |
| Bottle 1/2. Clear, light sediment. SGT carried out on 0.8 mL of remaining sample by ALN on 10/13/2021. | | | | | | | | | | |
| B21100806-004A | Aqueous | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/10/2021 | 10/11/2021 |
| Bottle 1/2. Turbid, light sediment. SGT carried out on 0.8 mL of remaining sample by ALN on 10/13/2021. | | | | | | | | | | |
| B21100806-005A | Aqueous | 2 | 1060 | 0 | 0 | 1.00 | 0.000943 | | 10/10/2021 | 10/11/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14354 | Dichloromethane EC119 | 8/3/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| SG211004(13376) | Baked Silica Gel | all | 5g | 2/28/2030 |
| Sulfate 10/07/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100uL | 9/1/2026 |
| DRO211009A | Triacontane SURR 1000 ug/mL | MB2, MBtest2 | 200 uL, 1 | 4/6/2026 |

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/9/2021 12:12:30 P**

Prep Batch **160178** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/11/2021 10:12:00 A**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| B21100806-006A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/10/2021 | 10/11/2021 |
| B21100806-007A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/10/2021 | 10/11/2021 |
| MB2-160178-Test2 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/9/2021 | 10/11/2021 |

| Number | Reagent Name | Exp Date | |
|---|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 | |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 | |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 | |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 | |
| 14354 | Dichloromethane EC119 | 8/3/2023 | |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| SG211004(13376) | Baked Silica Gel | all | 5g | 2/28/2030 |
| Sulfate 10/07/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100uL | 9/1/2026 |
| DRO211009A | Triacontane SURR 1000 ug/mL | MB2, MBtest2 | 200 uL, 1 | 4/6/2026 |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*13-Oct-21*

**Run ID** GCFID-HP5-B_211011A

**Run Start Date:** 10/11/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766294 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/11/2021 6:11: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.227833 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.950524 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2076886 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.227833 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766295 | CCV_1011HP51 | HC-8015-DRO- | CCV | | 10/11/2021 6:54: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.877404 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2262173 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766296 | CCV_1011HP51 | HC-8015-DRO- | CCV | | 10/11/2021 7:37: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.722528 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.25944 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 102% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2052182 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766297 | LCS-160178 | HC-8015-DRO- | LCS-DOD | | 10/11/2021 9:02: | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.08545 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 94% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.07628 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 101% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1900078 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 95% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766298 | MB-160178 | HC-8015-DRO- | MBLK | | 10/11/2021 9:45: | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0749 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1783996 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 89% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766299 | B21100756-001 | HC-8015-DRO- | SAMP | | 10/11/2021 10:2 | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0372273 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0841203 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0716793 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1478698 | | 0.1914 | 0 | 0 | 0.0004106 | 0.002 | 0 | 77% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.14787 | | 0.1914 | 0 | 0 | 0.0004106 | 0.002 | 0 | 77% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766300 | B21100806-001 | HC-8015-DRO- | SAMP | | 10/11/2021 11:1 | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.4943264 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.17808601 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.9317865 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1575454 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 83% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766301 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/12/2021 3:27: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.256114 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.986891 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2097943 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.256114 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766302 | CCV_1011HP52 | HC-8015-DRO- | CCV | | 10/12/2021 4:10: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2237983 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 112% | 80 | 120 | 0% | |
| TEH(Oil Range) | X | mg/L | | 4.990416 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766303 | CCV_1011HP52 | HC-8015-DRO- | CCV | | 10/12/2021 4:53: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.46444 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 103% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.02194 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 107% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2158708 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 108% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766304 | B21100806-005 | HC-8015-DRO- | SAMP | | 10/12/2021 6:19: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766304 | B21100806-005 | HC-8015-DRO- | SAMP | | 10/12/2021 6:19: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0366827 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.17139933 | | 0 | 0 | 0 | 0.0828897 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.2301624 | | 0 | 0 | 0 | 0.0706307 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.1837895 | | 0.1886 | 0 | 0 | 0.0004045 | 0.002 | 0 | 97% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766305 | B21100806-006 | HC-8015-DRO- | SAMP | | 10/12/2021 7:44: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1895468 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 99% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1895468 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766306 | B21100806-007 | HC-8015-DRO- | SAMP | | 10/12/2021 8:27: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1969312 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 102% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1969312 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766307 | B21100806-004 | HC-8015-DRO- | SAMP | | 10/12/2021 9:09: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0.2053661 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.1219954 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 64% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766308 | B21100806-002 | HC-8015-DRO- | SAMP | | 10/12/2021 9:52: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 3.147821 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.38234234 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.749227 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.153523 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 81% | 56 | 125 | 0% | |
| TEH(Oil Range) | X | mg/L | | 0.68103510 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766309 | B21100806-003 | HC-8015-DRO- | SAMP | | 10/12/2021 12:0 | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.1821419 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.57365459 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 1.602794 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1518294 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 80% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766310 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/12/2021 2:08: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.165439 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.874528 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2040152 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.165439 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766311 | CCV_1011HP54 | HC-8015-DRO- | CCV | | 10/12/2021 2:52: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.566519 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 91% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2106331 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766312 | CCV_1011HP54 | HC-8015-DRO- | CCV | | 10/12/2021 3:34: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.38329 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 103% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.93458 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 106% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2145986 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766313 | LCS-160178-RR | HC-8015-DRO- | LCS-DOD | | 10/12/2021 5:00: | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.510794 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 90% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1827493 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 91% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766314 | B21100806-002 | HC-8015-DRO- | MS-DOD | | 10/12/2021 6:26: | 1 | 160178 | 10/10/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.30348015 | | 9.8 | 0.6810351 | 0 | 0.172284 | 0.588 | 0 | 88% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.3157582 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 81% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766315 | B21100806-002 | HC-8015-DRO- | MSD-DOD | | 10/12/2021 7:53: | 1 | 160178 | 10/10/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.10872269 | | 9.8 | 0.6810351 | 9.3034801 | 0.172284 | 0.588 | 0 | 86% | 41 | 113 | 2% | |
| o-Terphenyl | S | mg/L | | 0.3542931 | | 0.392 | 0 | 0 | 0.0008408 | 0.00392 | 0 | 90% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766316 | B21100806-001 | HC-8015-DRO- | MS-DOD | | 10/12/2021 9:19: | 1 | 160178 | 10/10/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 31.13492 | | 28.5 | 0.4943264 | 0 | 0.07391 | 0.57 | 0 | 108% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 33.88804 | | 28.5 | 0.9317865 | 0 | 0.14231 | 0.57 | 50 | 116% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.3795471 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766317 | B21100806-001 | HC-8015-DRO- | MSD-DOD | | 10/12/2021 10:4 | 1 | 160178 | 10/10/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 31.02532 | | 28.5 | 0.4943264 | 31.13492 | 0.07391 | 0.57 | 0 | 107% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 33.75457 | | 28.5 | 0.9317865 | 33.88804 | 0.14231 | 0.57 | 50 | 115% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.374906 | | 0.38 | 0 | 0 | 0.0008151 | 0.0038 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766318 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/13/2021 12:1 | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.059366 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2131862 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

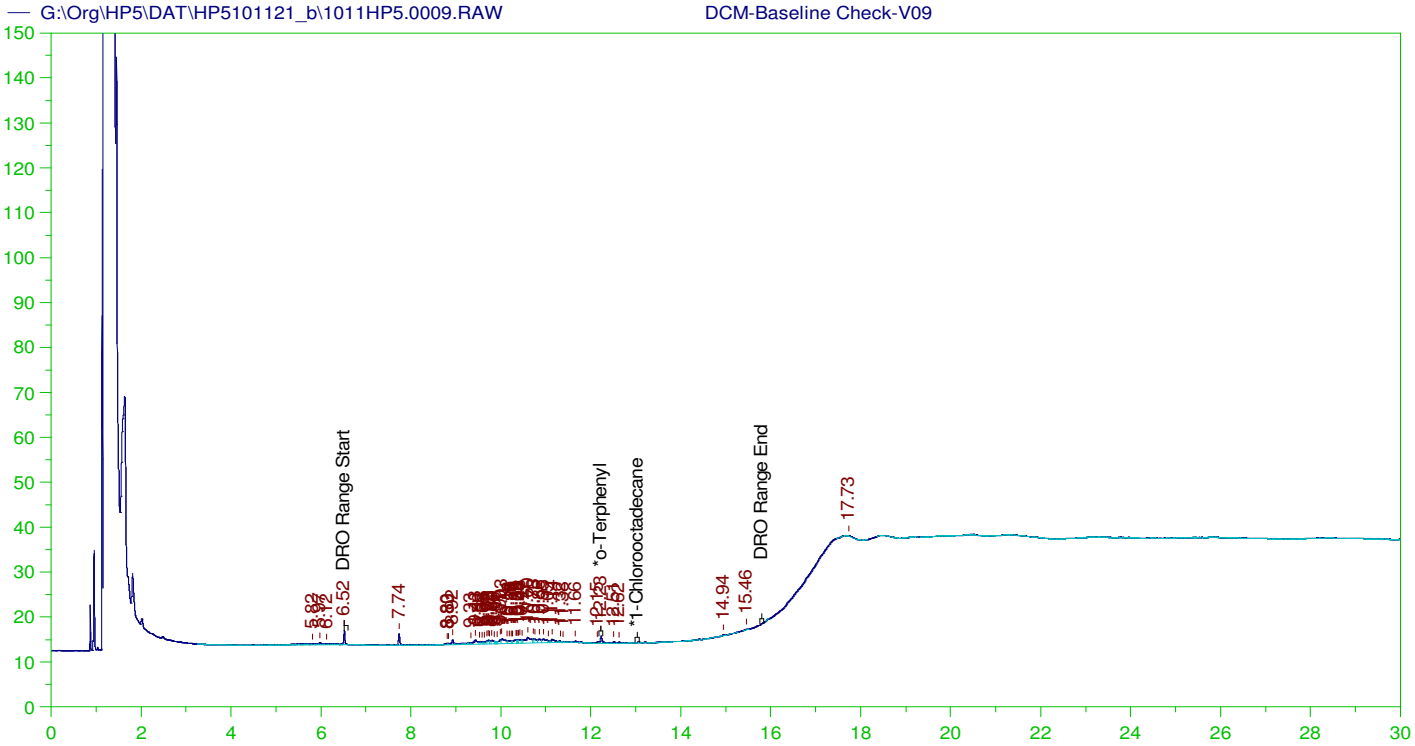
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766319 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 12:5 | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.017043 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.226186 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14766320 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 1:38: | 1 | R368573 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.79665 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 105% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.35982 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.220412 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.09r | DCM-Baseline Check-V09 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.10r | MARKER_1011HP510r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.11r | MARKER_1011HP511r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.12r | CCV_1011HP512r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.13r | CCV_1011HP513r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.15r | LCS-160178 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.16r | MB-160178 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.17r | B21100756-001A ;1011HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1045 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.18r | B21100806-001A ;1011HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.19r | B21100806-002A ;1011HP5 ,  $HC-8015-DRO-W, NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.20r | B21100806-003A ;1011HP5 ,  $HC-8015-DRO-W,  NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.21r | DCM-Baseline Check-V21 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.22r | B21100806-004A ;1011HP5 ,  $HC-8015-DRO-W,  NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.23r | MARKER_1011HP523r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.24r | MARKER_1011HP524r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.25r | CCV_1011HP525r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.26r | CCV_1011HP526r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.28r | B21100806-005A ;1011HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101128-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1060 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.30r | B21100806-006A ;1011HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.31r | B21100806-007A ;1011HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.32r | B21100806-004A ;1011HP5 ,  $HC-8015-DRO-W,  RR | G:\Org\HP5\Methods\DR_8015-101132-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-101132-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.33r | B21100806-002A ;1011HP5 ,  $HC-8015-DRO-W,  RR | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.34r | DCM-Baseline Check-V34 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.35r | DCM-Baseline Check-V35 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.36r | B21100806-003A ;1011HP5 ,  $HC-8015-DRO-W,  RR | G:\Org\HP5\Methods\D3_8015-101136-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.37r | DCM-Baseline Check-V37 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.38r | MARKER_1011HP538r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.39r | MARKER_1011HP539r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.40r | CCV_1011HP540r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.41r | CCV_1011HP541r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.42r | DCM-Baseline Check-V42 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.43r | LCS-160178-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-101143-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.44r | DCM-Baseline Check-V44 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.45r | B21100806-002AMS-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.46r | DCM-Baseline Check-V46 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.47r | B21100806-002AMSD-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.48r | DCM-Baseline Check-V48 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.49r | B21100806-001AMS ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.50r | DCM-Baseline Check-V50 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.51r | B21100806-001AMSD ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

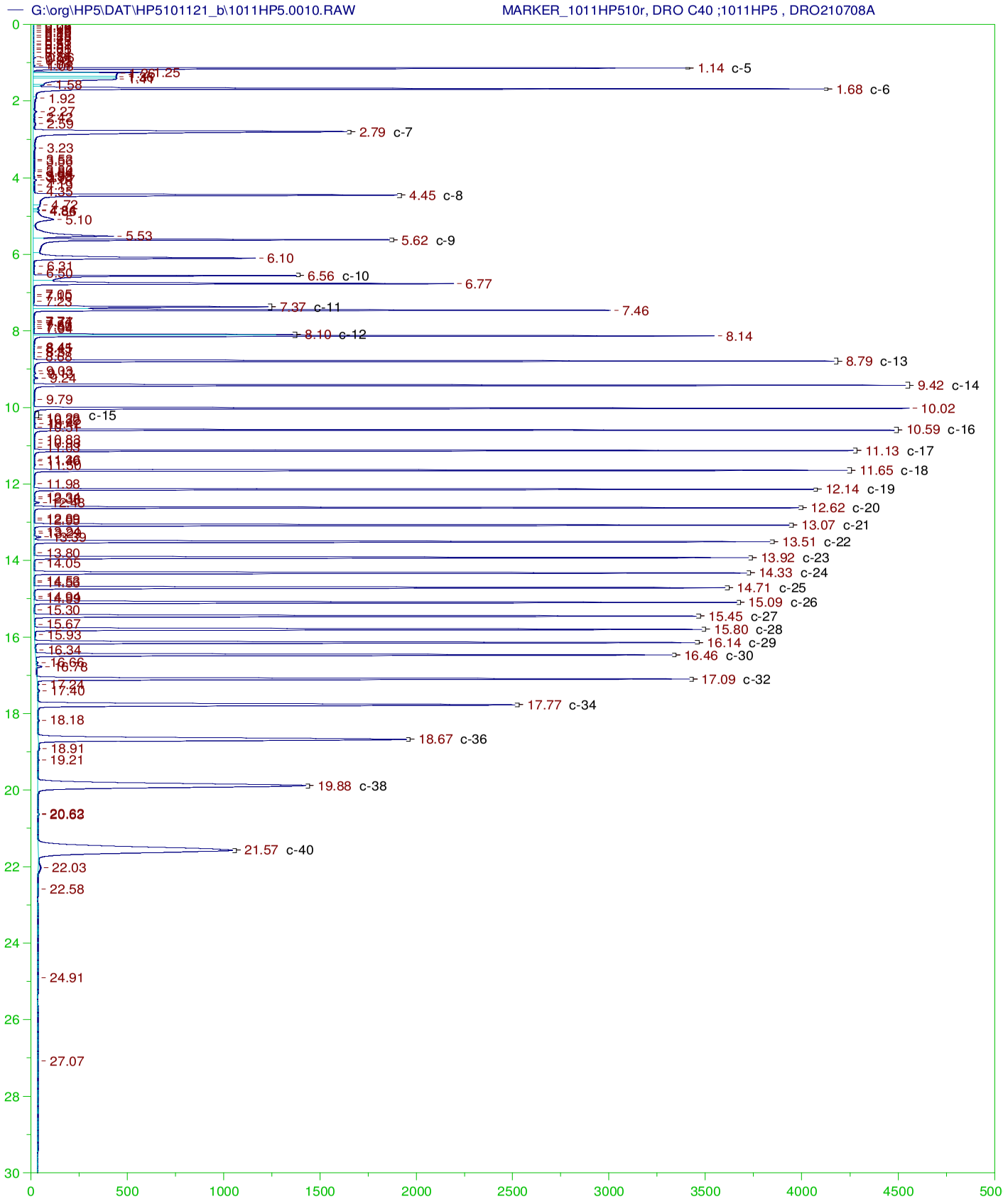
Sample Name: DCM-Baseline Check-V09
Raw File: G:\Org\HP5\DAT\HP5101121_b\1011HP5.0009.RAW
Date & Time Acquired: 10/11/2021 4:45:44 PM
Method File: g:\org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.226 | 200. | .131 | .07 | - |
| *1-Chlorooctadecane | 29.987 | 200. | . | . | - |

DRO Area:117075.3 DRO Amount: 3.974401
TEH Area:139950.9 TEH Amount: 4.750971

G:\org\HP5\dat\HP5101121_b\Review\009_DCM-Baseline Chec_DR_8015-HS-LEXP.xls


G:\org\HP5\DAT\HP5101121_b\1011HP5.0010.RAW
MARKER_1011HP510r, DRO C40 ;1011HP5 , DRO210708A
1.14 c-5
1.68 c-6
2.79 c-7
4.45 c-8
5.62 c-9
6.56 c-10
7.37 c-11
8.10 c-12
8.79 c-13
9.42 c-14
10.02
10.59 c-16
11.13 c-17
11.65 c-18
12.14 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.92 c-23
14.33 c-24
14.71 c-25
15.09 c-26
15.45 c-27
15.80 c-28
16.14 c-29
16.46 c-30
17.09 c-32
17.77 c-34
18.67 c-36
19.88 c-38
21.57 c-40
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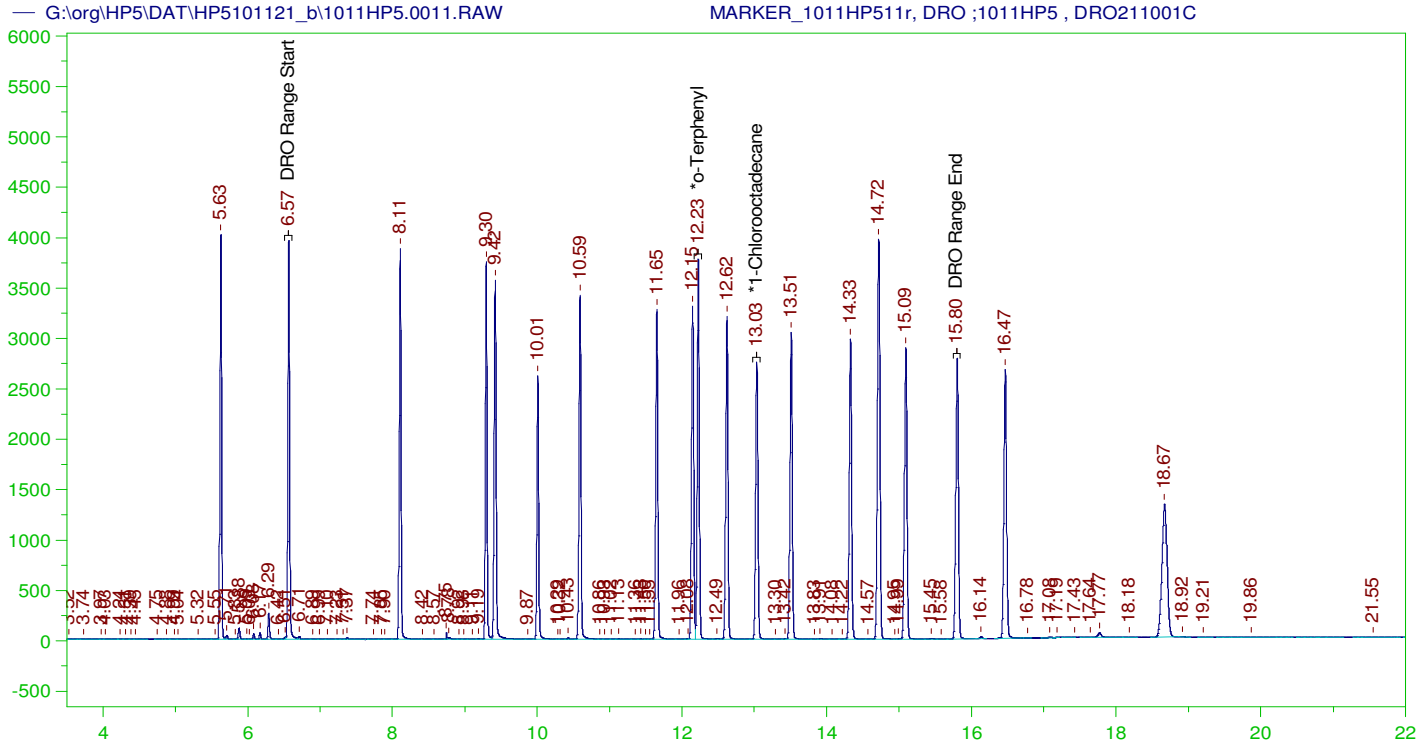



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

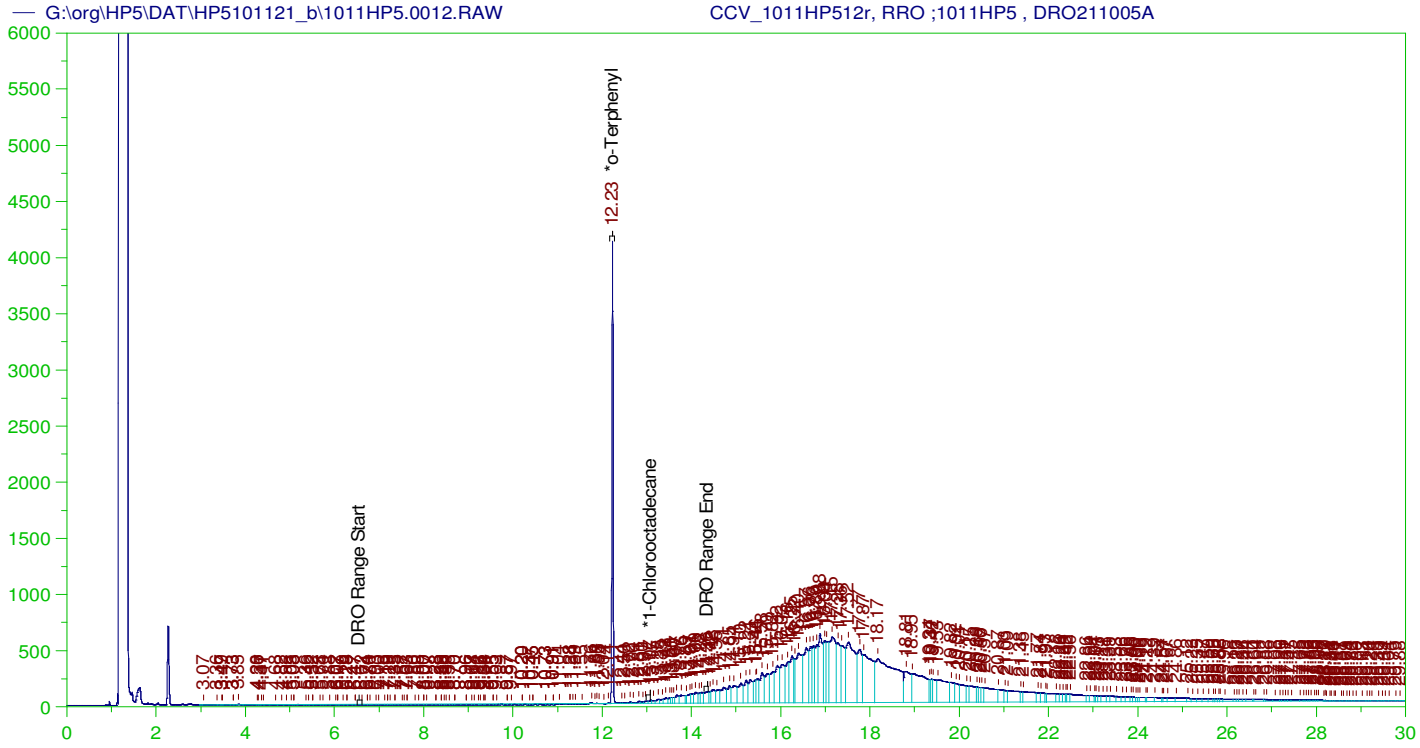
Sample Name: MARKER_1011HP511r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0011.RAW
Date & Time Acquired: 10/11/2021 6:11:31 PM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | .2 | .208 | 103.84 | - |
| *1-Chlorooctadecane | 13.034 | .2 | .168 | 84.06 | - |

DRO Area:9.508335E+07 DRO Amount: 3.227833
TEH Area:1.163719E+08 TEH Amount: 3.950524

G:\org\HP5\dat\HP5101121_b\Review\011_MARKER_1011HP511r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP512r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0012.RAW
Date & Time Acquired: 10/11/2021 6:54:26 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | 227.884 | 113.94 | - |
| *1-Chlorooctadecane | 13.074 | 200. | 3.494 | 1.75 | - |

DRO Area:7287515 DRO Amount: 255.3223
TEH (Oil Range) Area:1.392129E+08 TEH (Oil Range) Amount: 4877.404

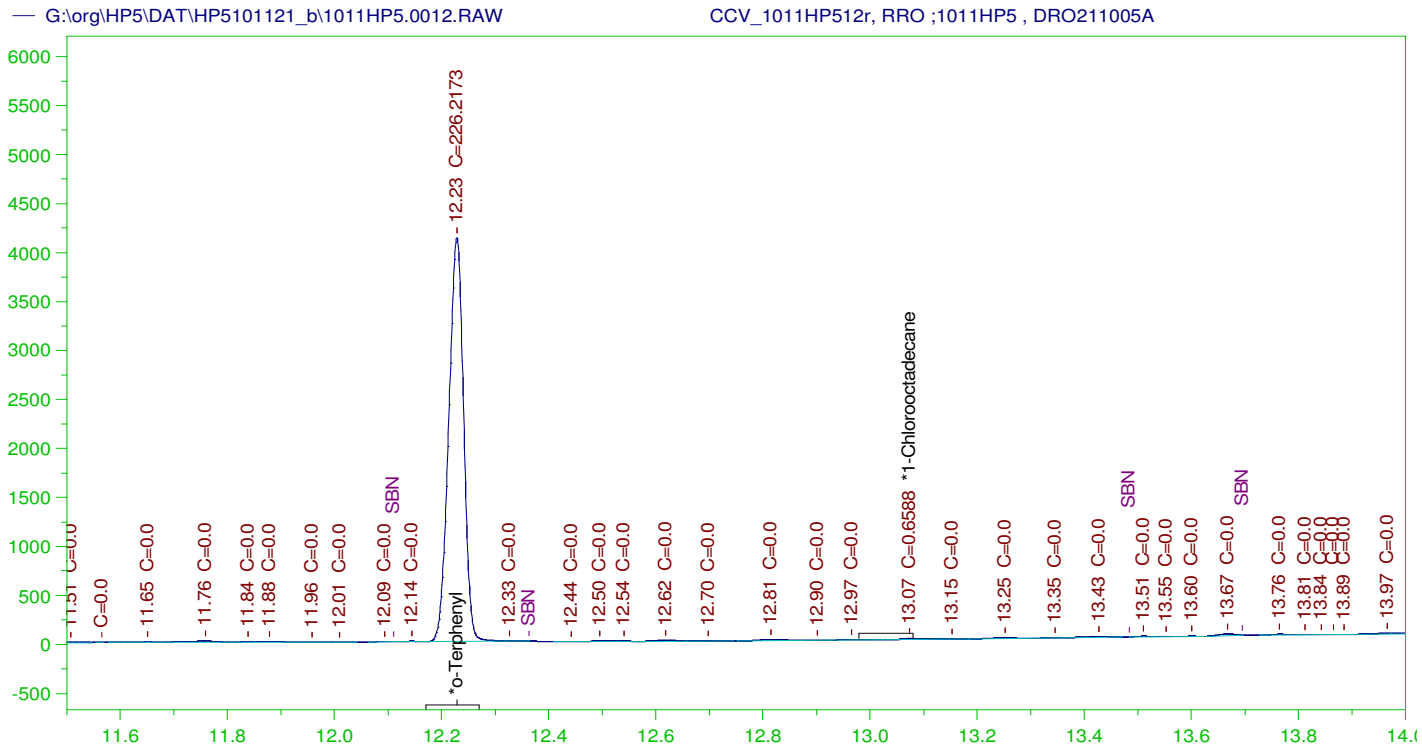
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4877.4 | 97.55 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | 227.884 | 113.94 | 85-115 |
| *1-Chlorooctadecane | 13.074 | 200. | 3.494 | 1.75 | 85-115 |

AMN 10/19/2021

G:\org\HP5\dat\HP5101121_b\Review\012_CCV_1011HP512r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP512r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0012.RAW
Date & Time Acquired: 10/11/2021 6:54:26 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | 226.217 | 113.11 | - |
| *1-Chlorooctadecane | 13.074 | 200. | .659 | .33 | - |

DRO Area:889509.1 DRO Amount: 31.16447
TEH Area:2139026 TEH Amount: 74.94202

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 74.94 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | 226.217 | 113.11 | 85-115 |
| *1-Chlorooctadecane | 13.074 | 200. | .659 | .33 | 85-115 |

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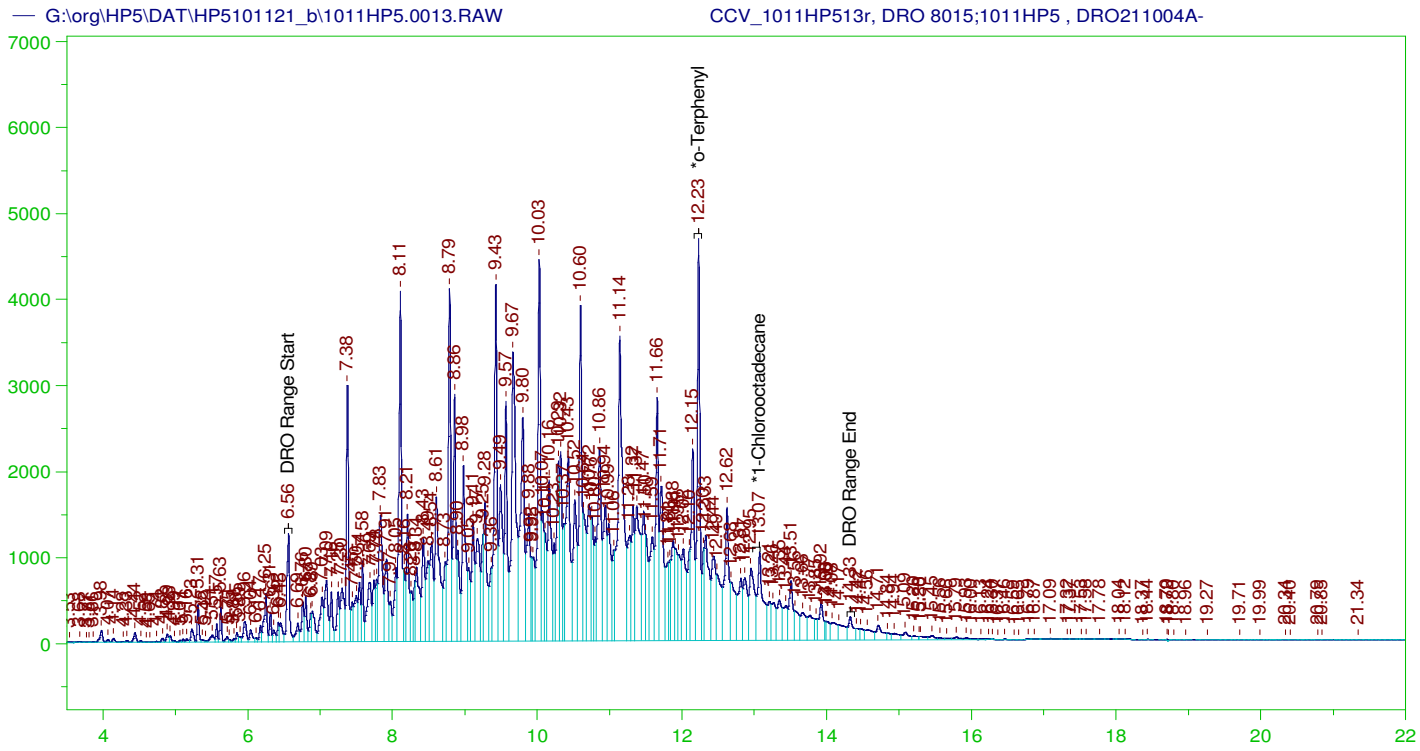


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP513r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0013.RAW
Date & Time Acquired: 10/11/2021 7:37:20 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.232 | 200. | 331.506 | 165.75 | - |
| *1-Chlorooctadecane | 13.071 | 200. | 151.001 | 75.5 | - |

DRO Area:4.337675E+08 DRO Amount: 14725.28
TEH Area:4.495023E+08 TEH Amount: 15259.44

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15259.44 | 101.73 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.232 | 200. | 331.506 | 165.75 | 85-115 |
| *1-Chlorooctadecane | 13.071 | 200. | 151.001 | 75.5 | 85-115 |

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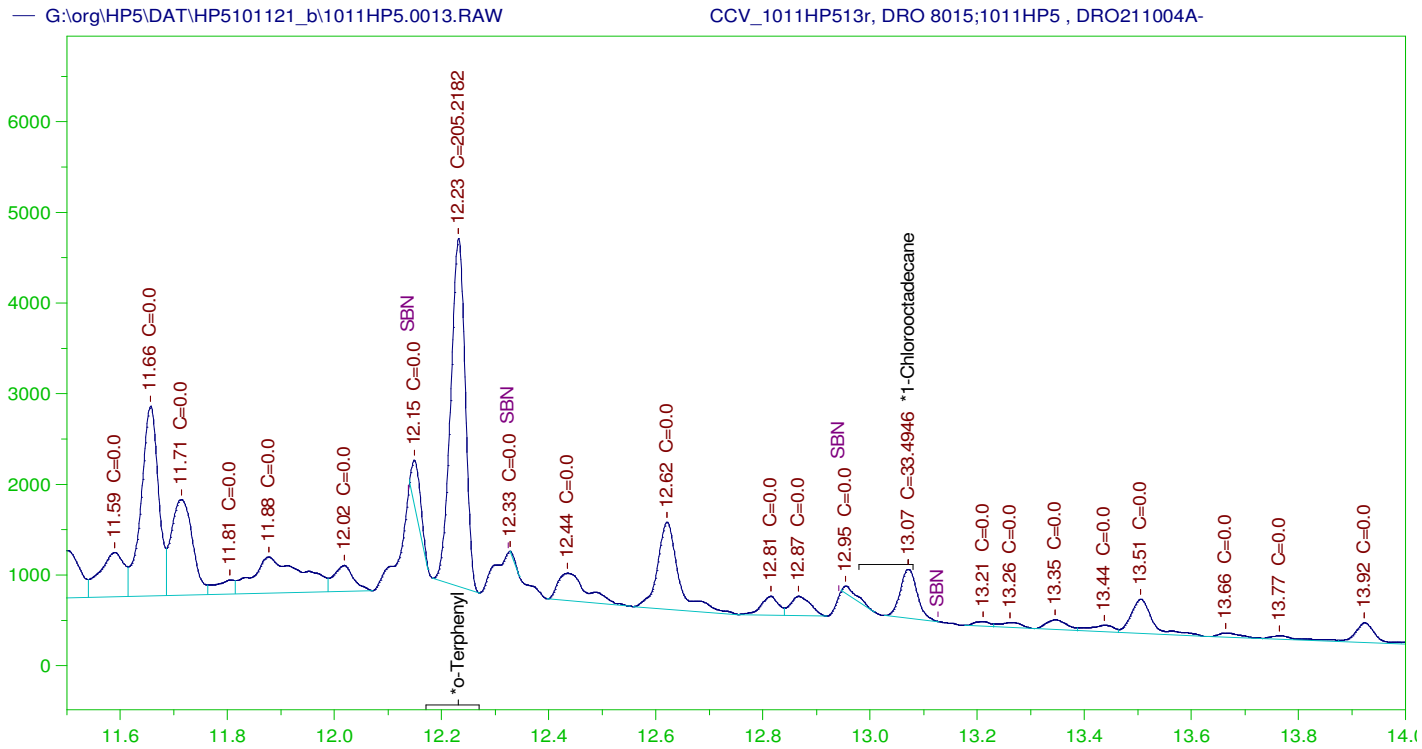


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP513r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0013.RAW
Date & Time Acquired: 10/11/2021 7:37:20 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.232 | 200. | 205.218 | 102.61 | - |
| *1-Chlorooctadecane | 13.071 | 200. | 33.495 | 16.75 | - |

DRO Area:2.405693E+08 DRO Amount: 8166.705
TEH Area:2.499675E+08 TEH Amount: 8485.748

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8485.75 | 56.57 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.232 | 200. | 205.218 | 102.61 | 85-115 |
| *1-Chlorooctadecane | 13.071 | 200. | 33.495 | 16.75 | 85-115 |

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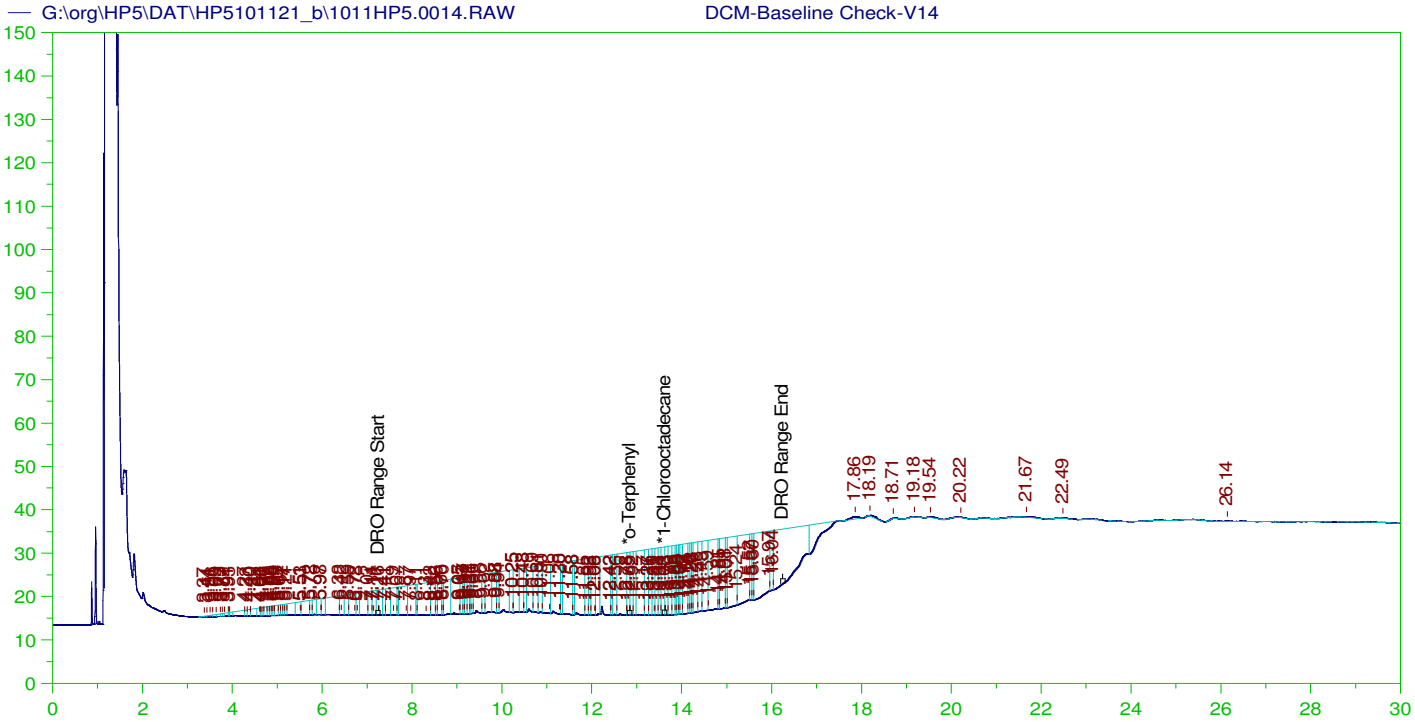


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0014.RAW
Date & Time Acquired: 10/11/2021 8:20:06 PM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.852 | 200. | 1.749 | .87 | - |
| *1-Chlorooctadecane | 13.628 | 200. | 1.909 | .95 | - |

DRO Area:6678120 DRO Amount: 226.7048
TEH Area:7249502 TEH Amount: 246.1018

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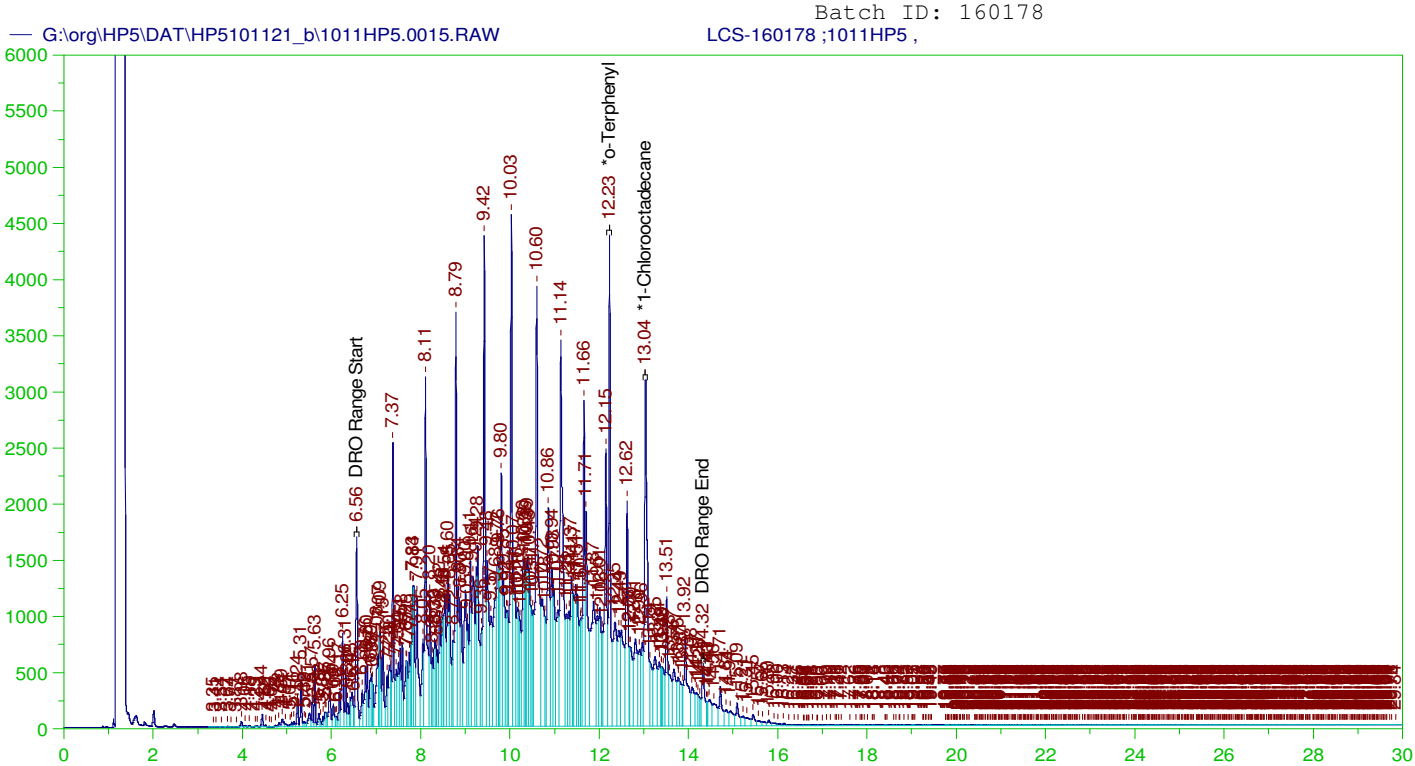
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0015.RAW
Date & Time Acquired: 10/11/2021 9:02:53 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .329 | 164.42 | - |
| *1-Chlorooctadecane | 13.036 | .2 | .352 | 176.18 | - |

DRO Area:4.149198E+08 DRO Amount: 14.08545
TEH Area:4.441069E+08 TEH Amount: 15.07628

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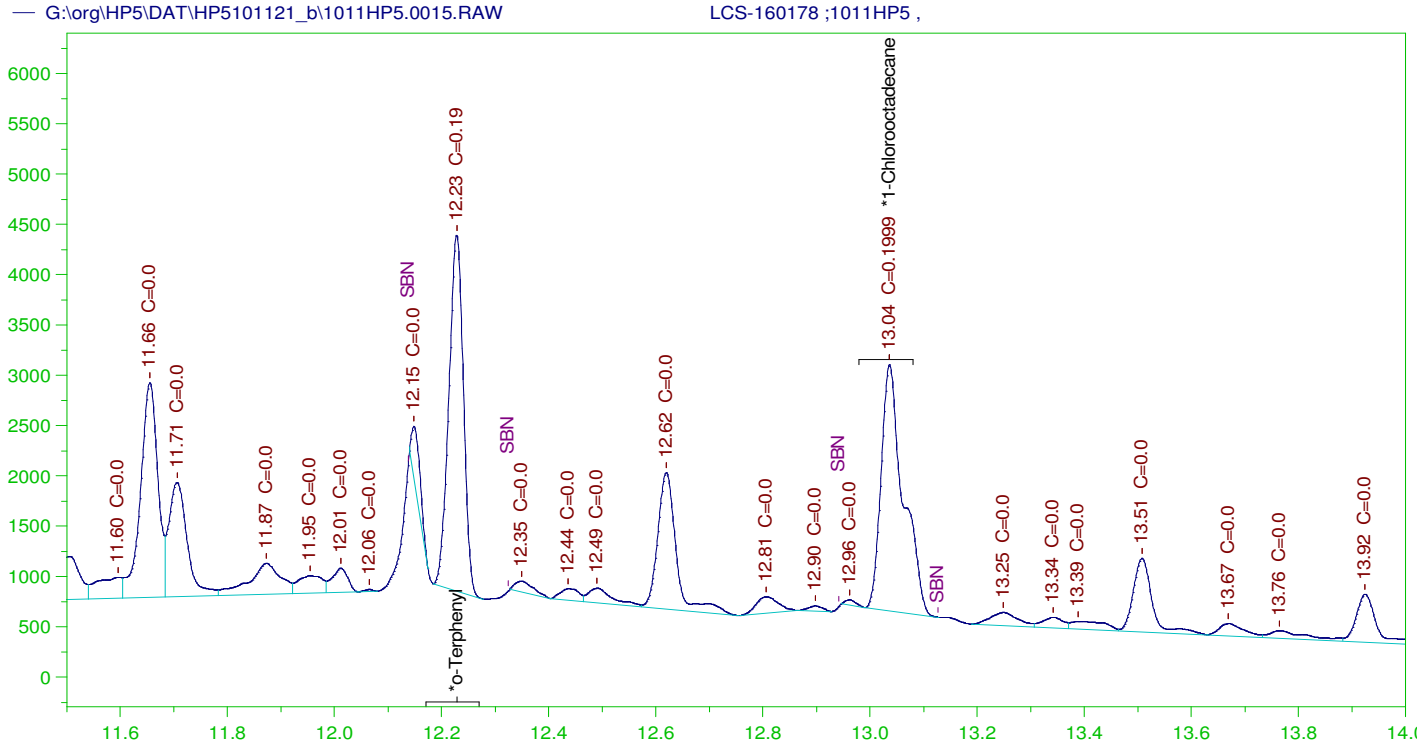
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0015.RAW
Date & Time Acquired: 10/11/2021 9:02:53 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

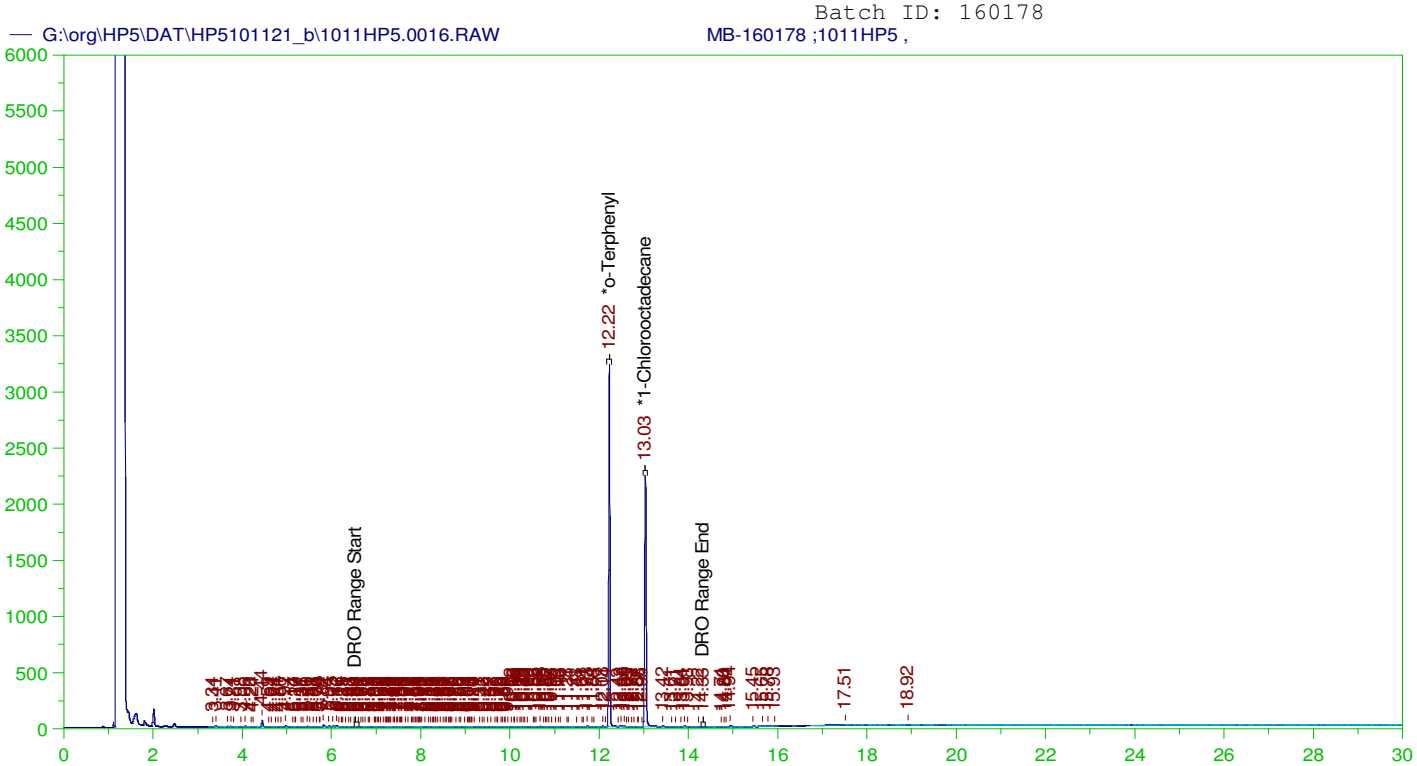
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .19 | 95. | - |
| *1-Chlorooctadecane | 13.036 | .2 | .2 | 99.96 | - |

DRO Area:2.042044E+08 DRO Amount: 6.93221
TEH Area:2.158574E+08 TEH Amount: 7.327799

G:\org\HP5\dat\HP5101121_b\Review\015_LCS-160178_DS_8015-HS-L#.xls

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

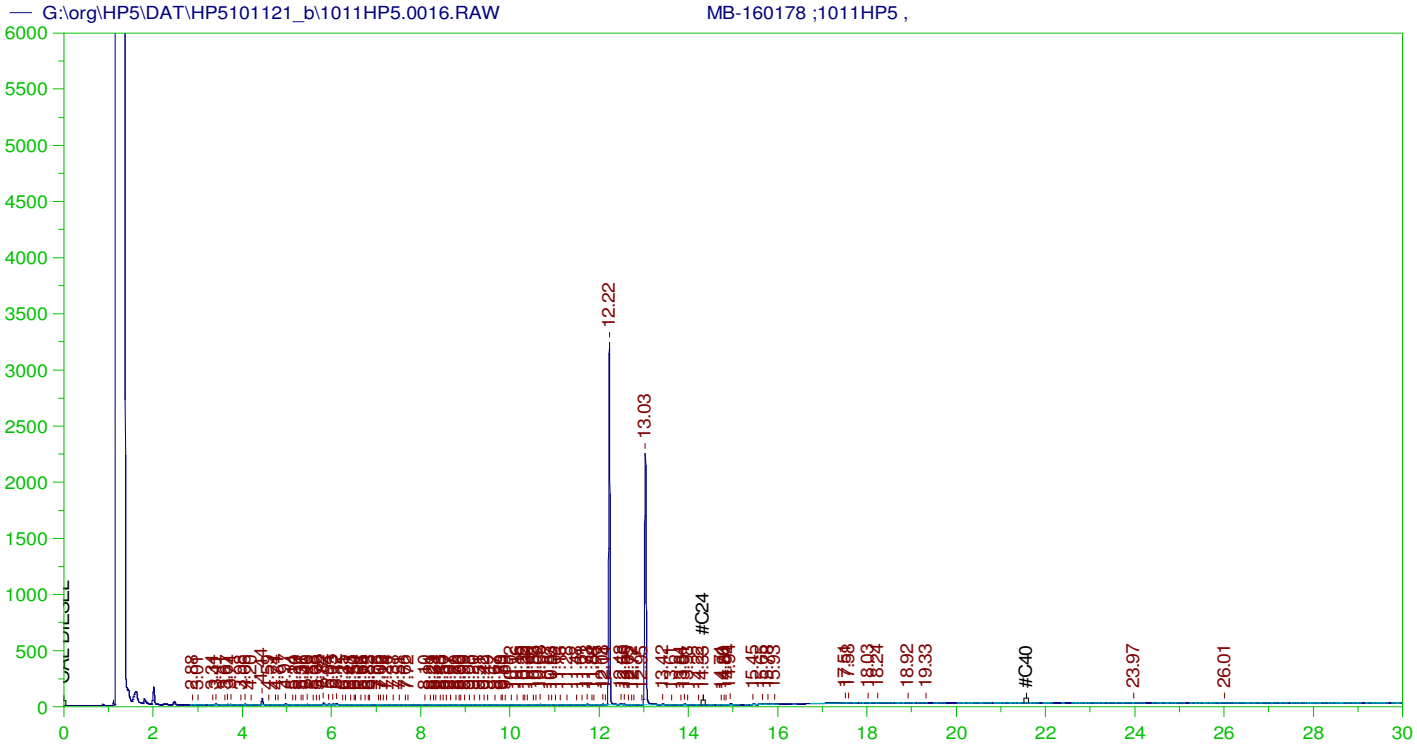
Sample Name: MB-160178 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0016.RAW
Date & Time Acquired: 10/11/2021 9:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | .2 | .178 | 89.2 | - |
| *1-Chlorooctadecane | 13.032 | .2 | .14 | 70.23 | - |

DRO Area:471337.6 DRO Amount: 1.600069E-02
TEH Area:969659.3 TEH Amount: 3.291742E-02

G:\org\HP5\dat\HP5101121_b\Review\016_MB-160178_DR_8015-C24-HS-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160178 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0016.RAW
Date & Time Acquired: 10/11/2021 9:45:36 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

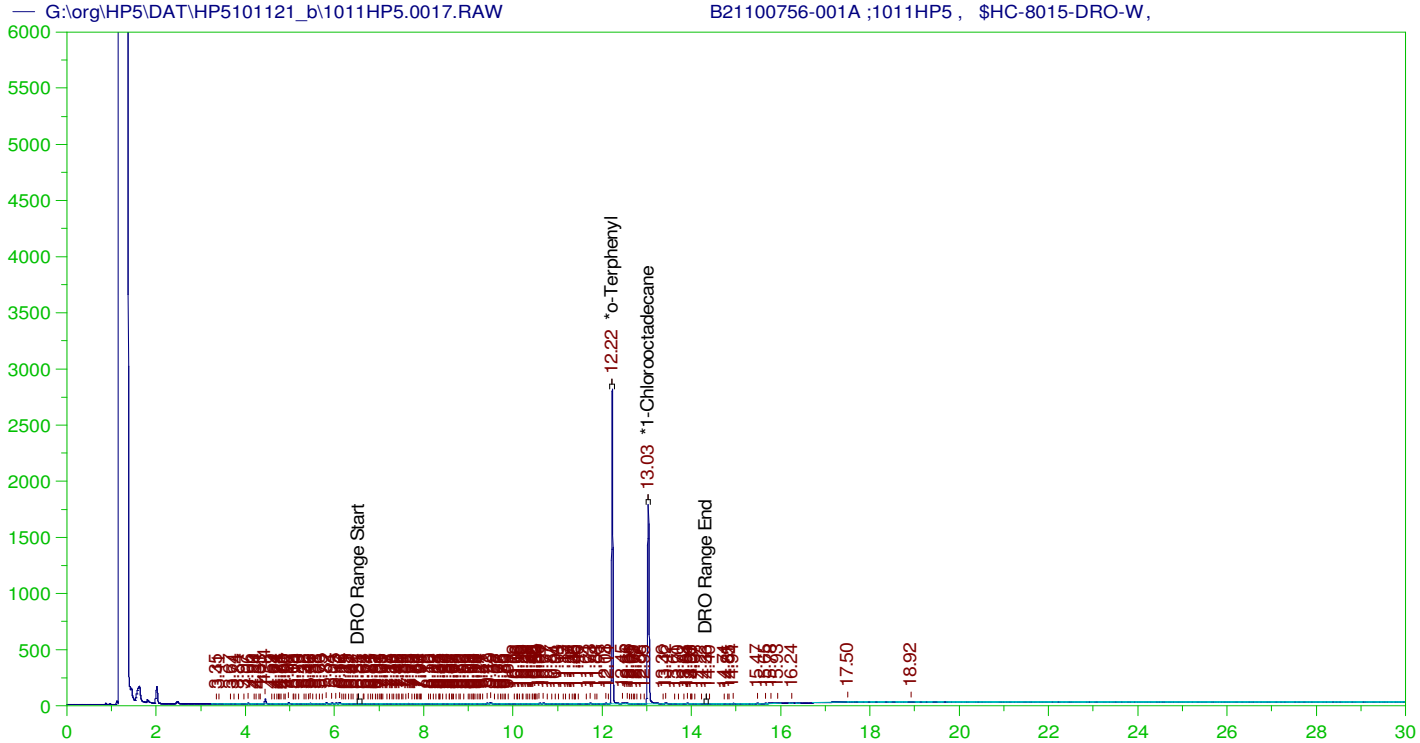
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:74366.88 RRO AMOUNT: 2.605487E-03

G:\org\HP5\dat\HP5101121_b\Review\016_MB-160178_DR_OIL-S-AJ-L%.xls

**ERH1777 (RHSF, Pre-Chlorination)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0017.RAW B21100756-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100756-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0017.RAW
Date & Time Acquired: 10/11/2021 10:28:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

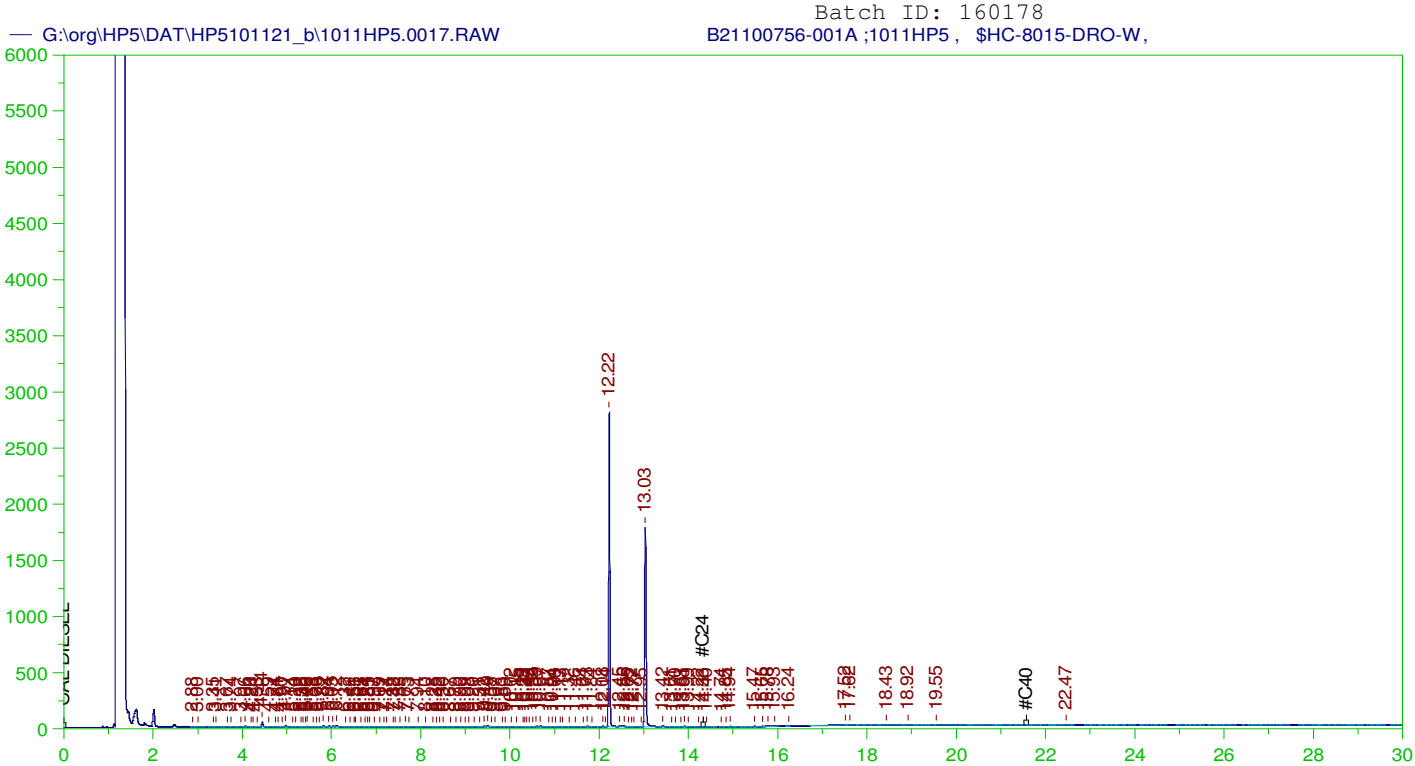
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .191 | .148 | 77.26 | - |
| *1-Chlorooctadecane | 13.029 | .191 | .108 | 56.28 | - |

DRO Area:589638.6 DRO Amount: 1.915473E-02
TEH Area:1029806 TEH Amount: 3.345381E-02

G:\org\HP5\dat\HP5101121_b\Review\017_B21100756-001A_DR_8015-C24-HS-L%.xls

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100756-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0017.RAW
Date & Time Acquired: 10/11/2021 10:28:21 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:71402.17 RRO AMOUNT: 2.393892E-03

G:\org\HP5\dat\HP5101121_b\Review\017_B21100756-001A_DR_OIL-S-AJ-L%.xls

**ERH1784 (RHMW01R)** Batch ID: 160178

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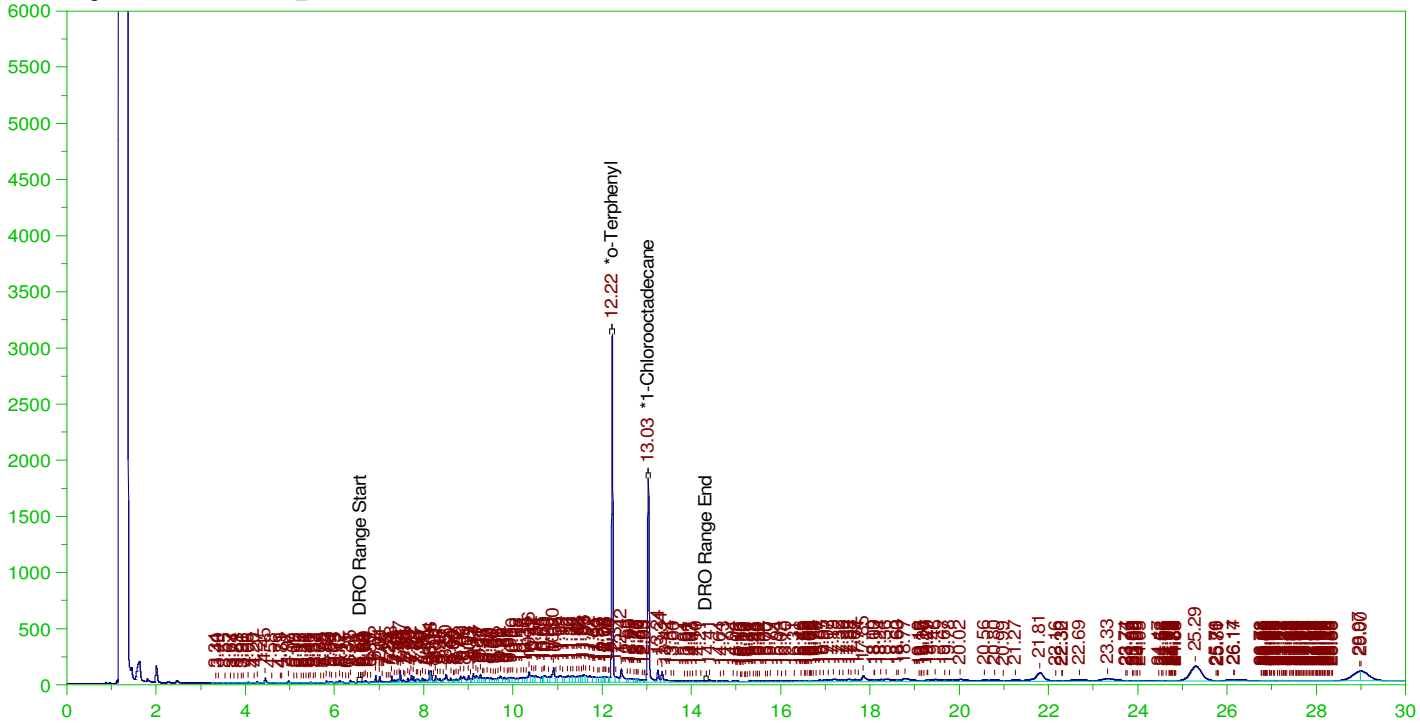


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0018.RAW
Date & Time Acquired: 10/11/2021 11:11:11 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .19 | .167 | 87.89 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .114 | 59.95 | - |

DRO Area:1.536242E+07 DRO Amount: 0.4943264
TEH Area:2.895758E+07 TEH Amount: 0.9317865

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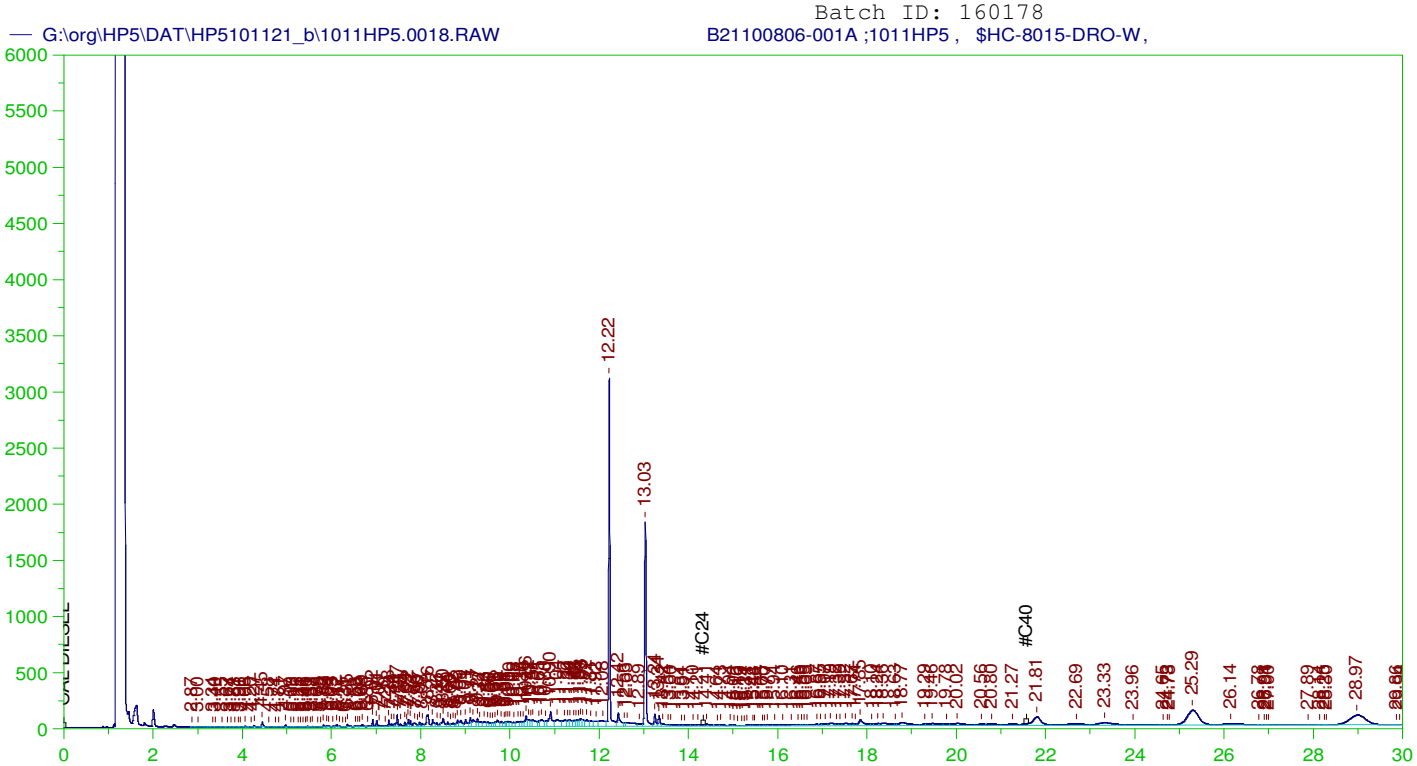
Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0018.RAW
Date & Time Acquired: 10/11/2021 11:11:11 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:5362569 RRO AMOUNT: 0.178086

G:\org\HP5\dat\HP5101121_b\Review\018_B21100806-001A_D3_OIL-S-AJ-L%.xls

**ERH1784 (RHMW01R)** Batch ID: 160178

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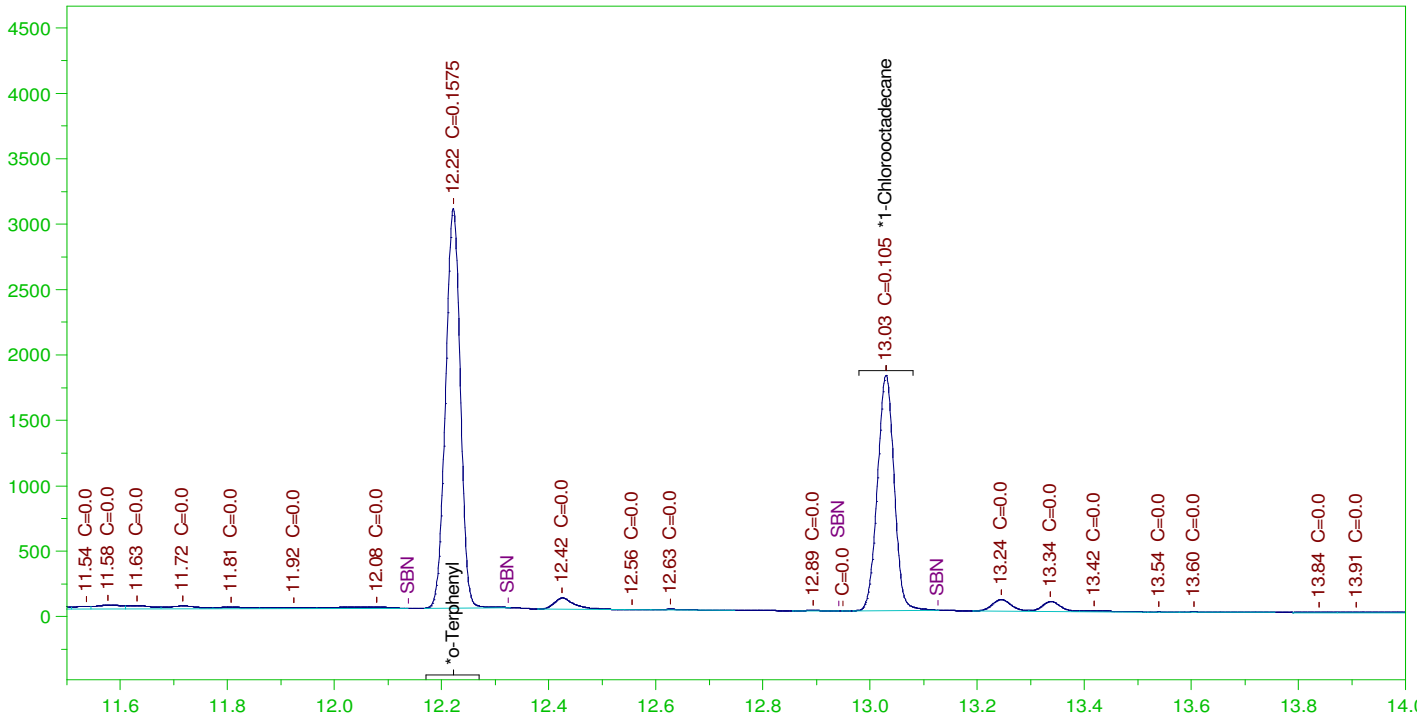



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0018.RAW
Date & Time Acquired: 10/11/2021 11:11:11 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

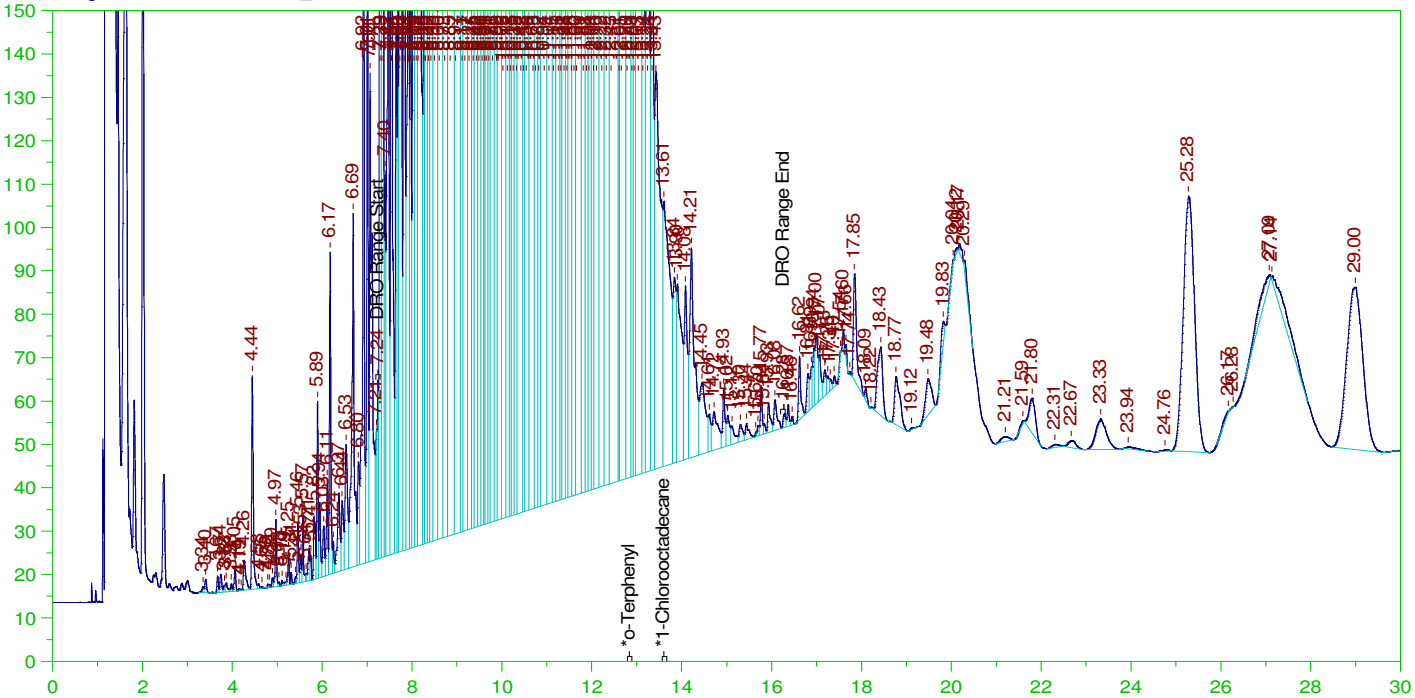
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .19 | .158 | 83.11 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .105 | 55.39 | - |

DRO Area:7225522 DRO Amount: 0.2325002
TEH Area:7803642 TEH Amount: 0.2511027

G:\org\HP5\dat\HP5101121_b\Review\018_B21100806-001A_DS_8015-HS-L#.xls

**ERH1787 (RHMW02)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0019.RAW B21100806-002A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0019.RAW
Date & Time Acquired: 10/11/2021 11:54:00 PM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 29.924 | .19 | . | . - |
| *1-Chlorooctadecane | 13.605 | .19 | .017 | 9.19 - |

DRO Area:1.035945E+08 DRO Amount: 3.333425
TEH Area:1.097716E+08 TEH Amount: 3.532191

G:\org\HP5\dat\HP5101121_b\Review\019_B21100806-002A_DR_8015-HR-LEXP.xls

**ERH1790 (RHMW03)** Batch ID: 160178

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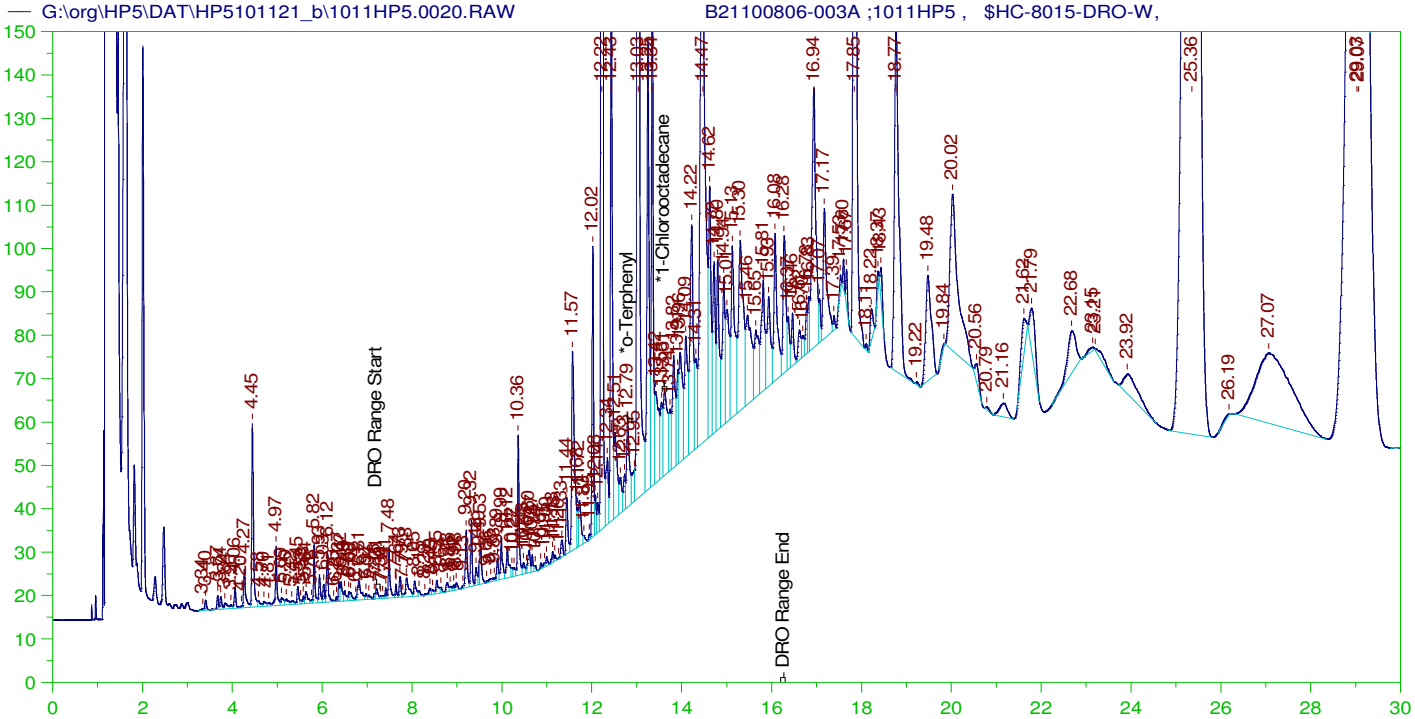



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

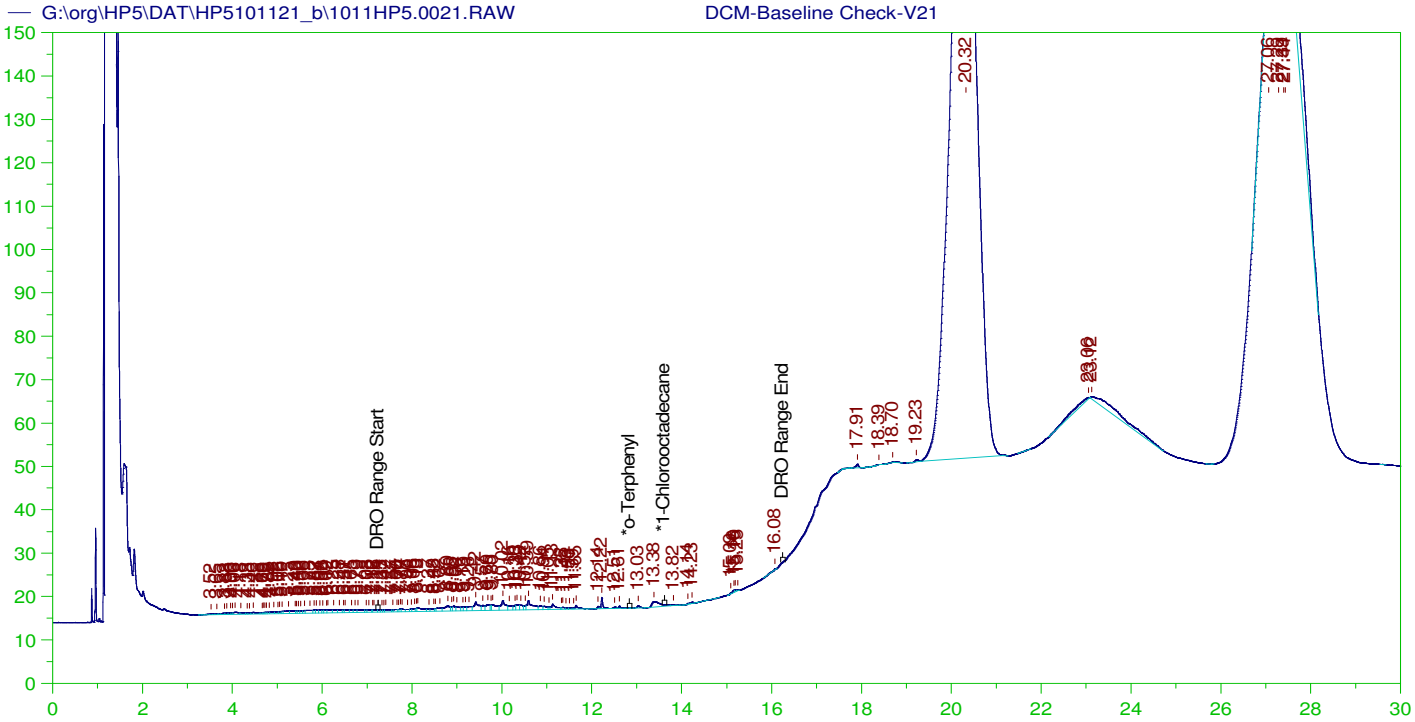
Sample Name: B21100806-003A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0020.RAW
Date & Time Acquired: 10/12/2021 12:36:47 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.793 | .19 | .002 | 1.29 | - |
| *1-Chlorooctadecane | 13.611 | .19 | .004 | 1.91 | - |

DRO Area:1.688078E+07 DRO Amount: 0.5457703
TEH Area:3.333578E+07 TEH Amount: 1.077775

G:\org\HP5\dat\HP5101121_b\Review\020_B21100806-003A_DR_8015-HR-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V21
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0021.RAW
Date & Time Acquired: 10/12/2021 1:19:39 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

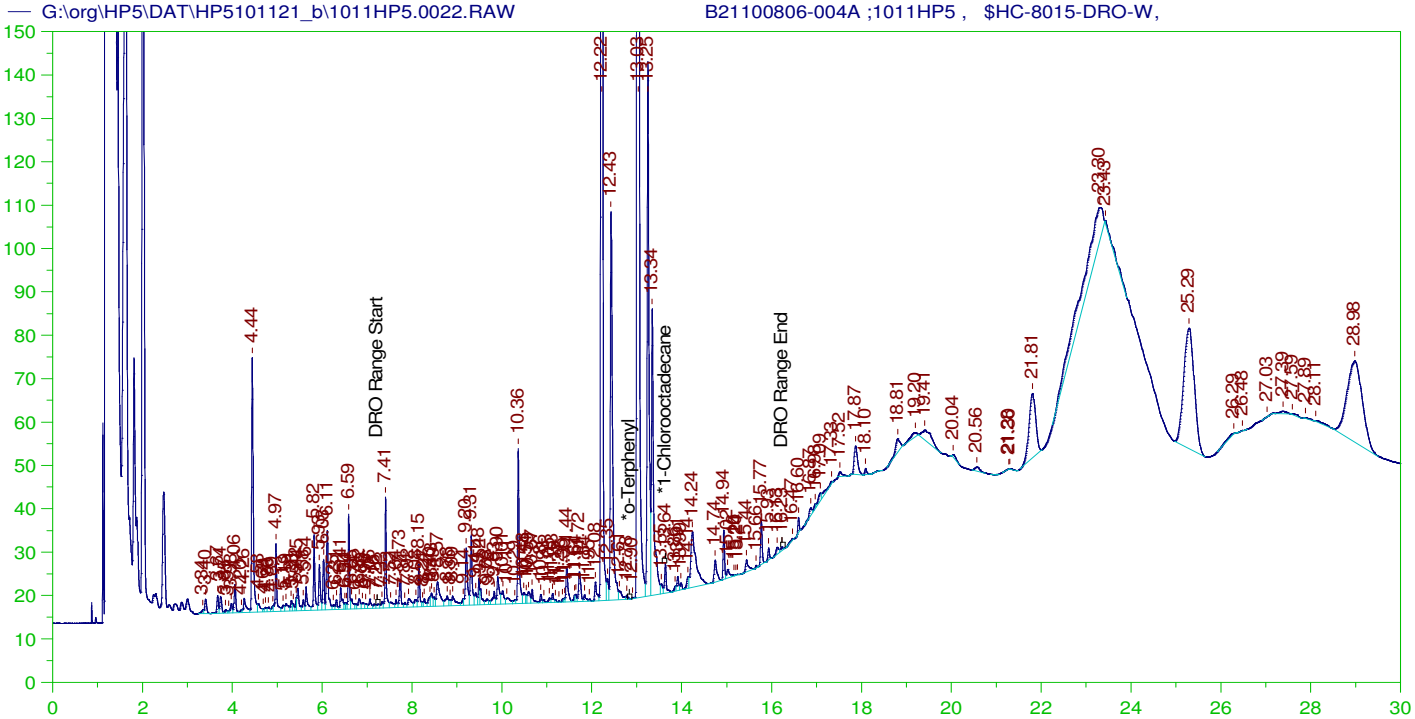
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.601 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.601 | 200. | . | . | - |

DRO Area:259267.8 DRO Amount: 8.801469
TEH Area:7589954 TEH Amount: 257.6592

**ERH1793 (RHM05)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0022.RAW B21100806-004A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

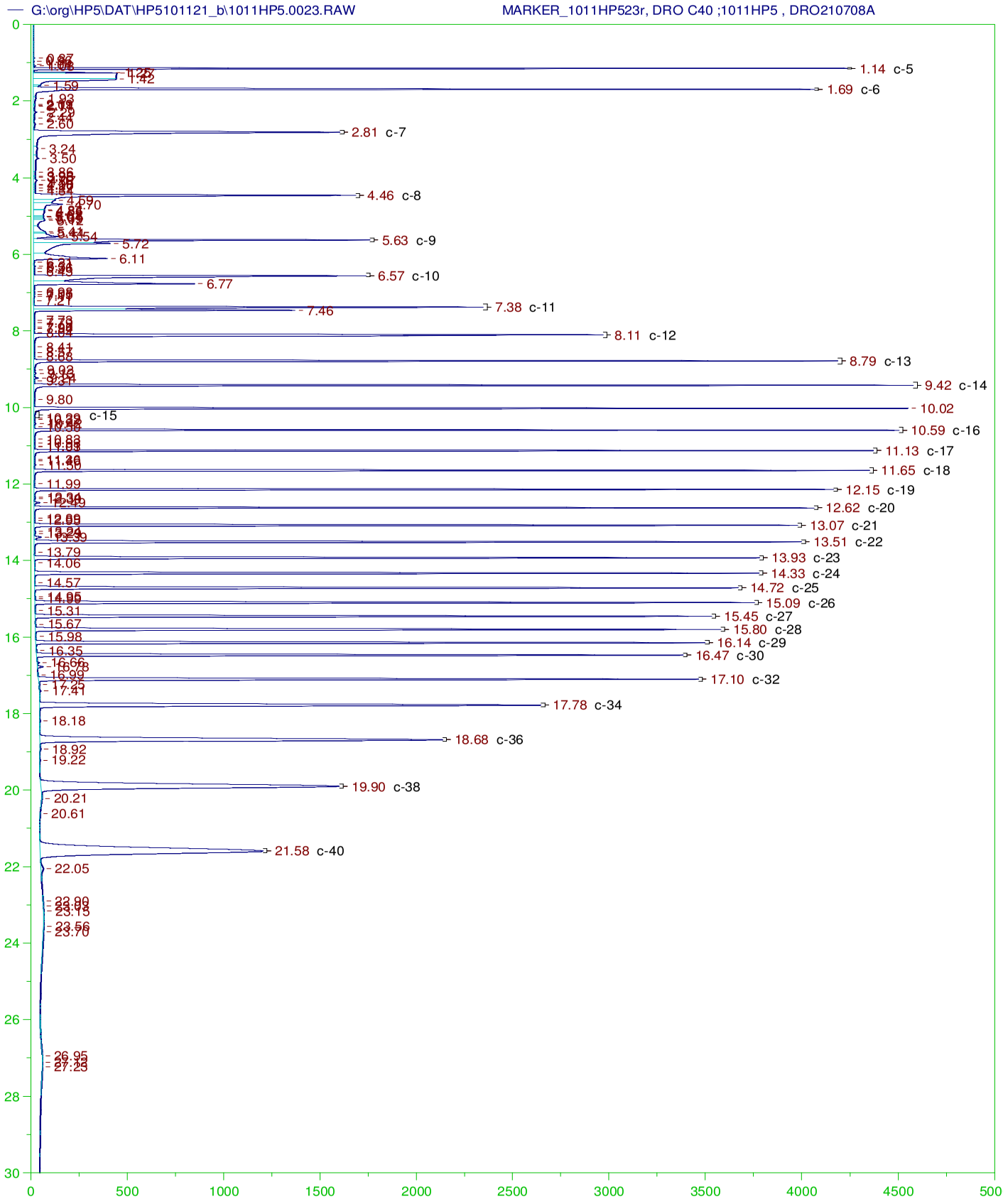
Sample Name: B21100806-004A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0022.RAW
Date & Time Acquired: 10/12/2021 2:02:21 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 28.979 | .19 | . | . - |
| *1-Chlorooctadecane | 13.636 | .19 | .001 | .29 - |

DRO Area:9756982 DRO Amount: 0.3154516
TEH Area:1.195954E+07 TEH Amount: 0.3866623

G:\org\HP5\dat\HP5101121_b\Review\022_B21100806-004A_DR_8015-HR-LEXP.xls

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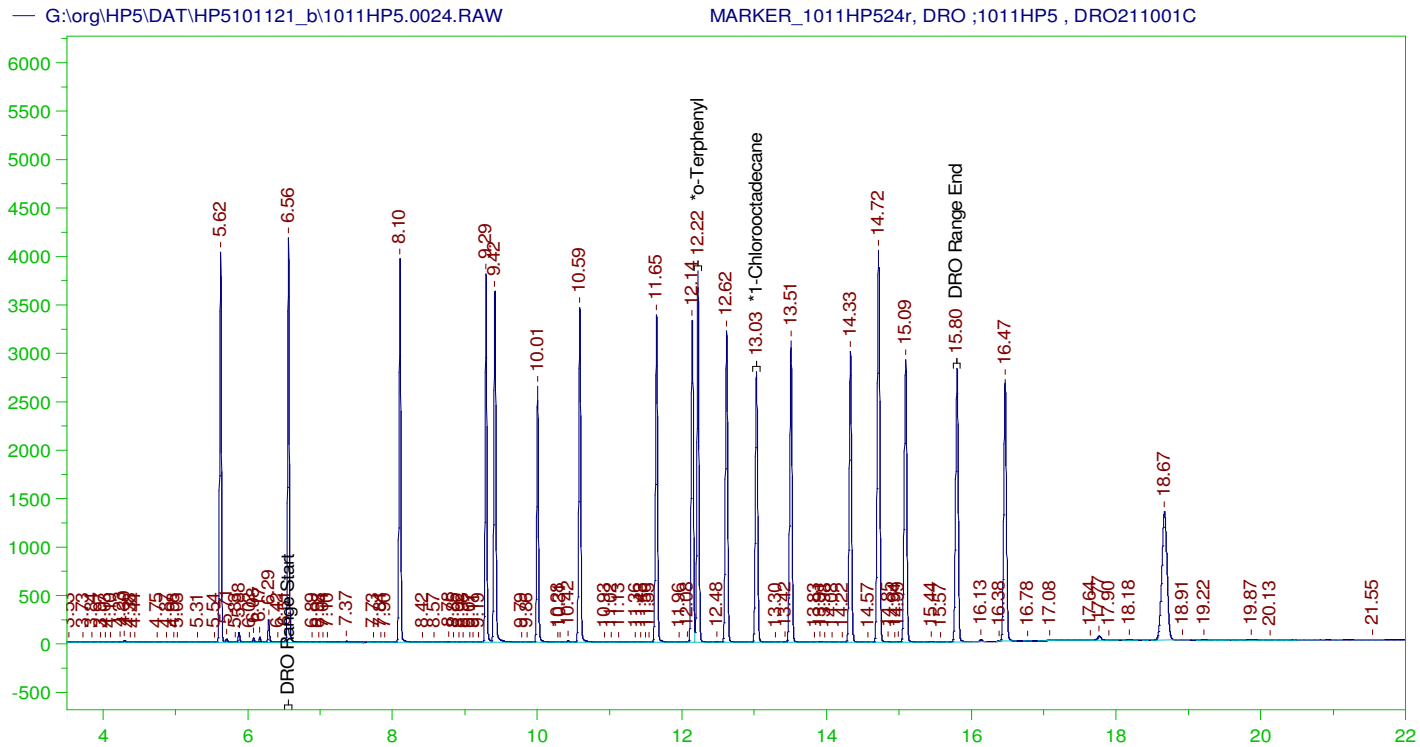



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

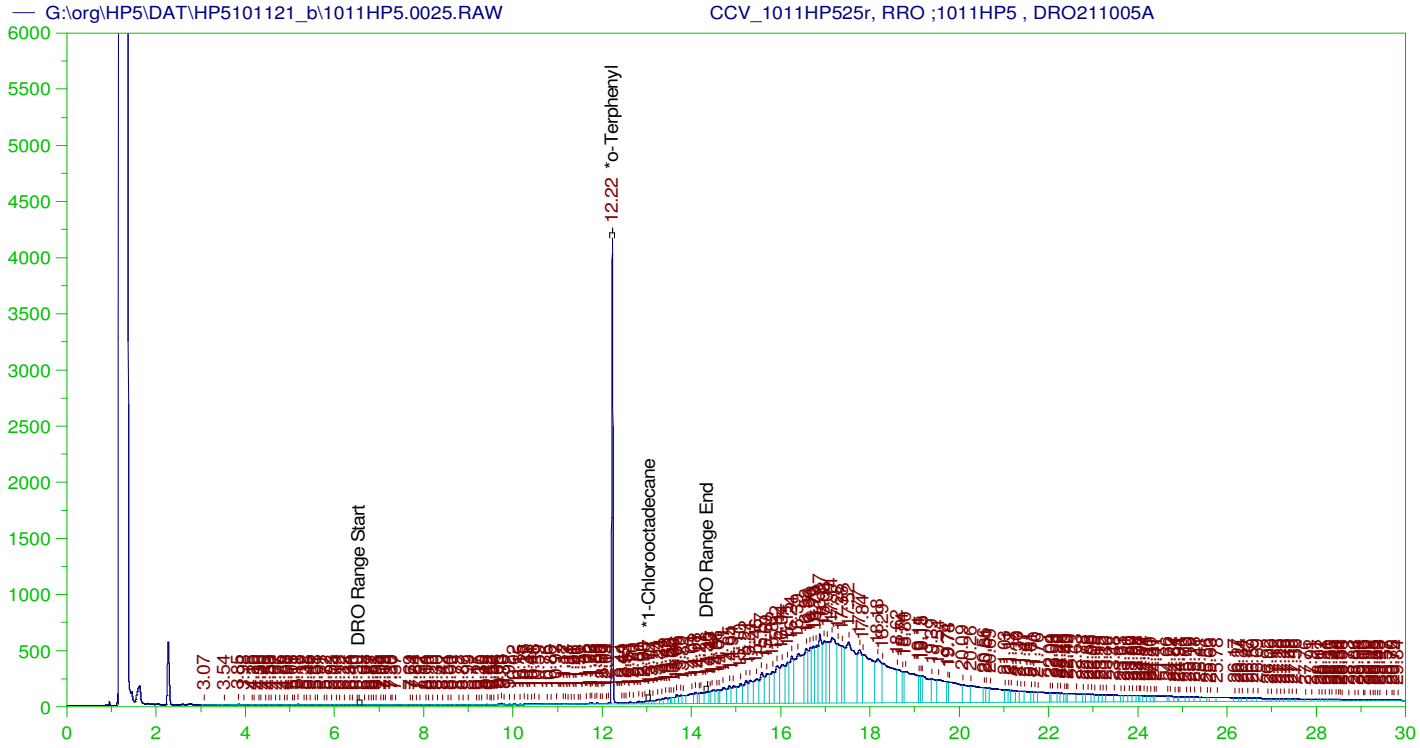
Sample Name: MARKER_1011HP524r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0024.RAW
Date & Time Acquired: 10/12/2021 3:27:56 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .2 | .21 | 104.9 | - |
| *1-Chlorooctadecane | 13.03 | .2 | .17 | 84.85 | - |

DRO Area:9.591645E+07 DRO Amount: 3.256114
TEH Area:1.174432E+08 TEH Amount: 3.986891

G:\org\HP5\dat\HP5101121_b\Review\024_MARKER_1011HP524r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP525r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0025.RAW
Date & Time Acquired: 10/12/2021 4:10:46 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 227.617 | 113.81 | - |
| *1-Chlorooctadecane | 13.067 | 200. | 3.908 | 1.95 | - |

DRO Area:6540064 DRO Amount: 229.1349
TEH (Oil Range)Area:1.424385E+08 TEH (Oil Range)Amount: 4990.416

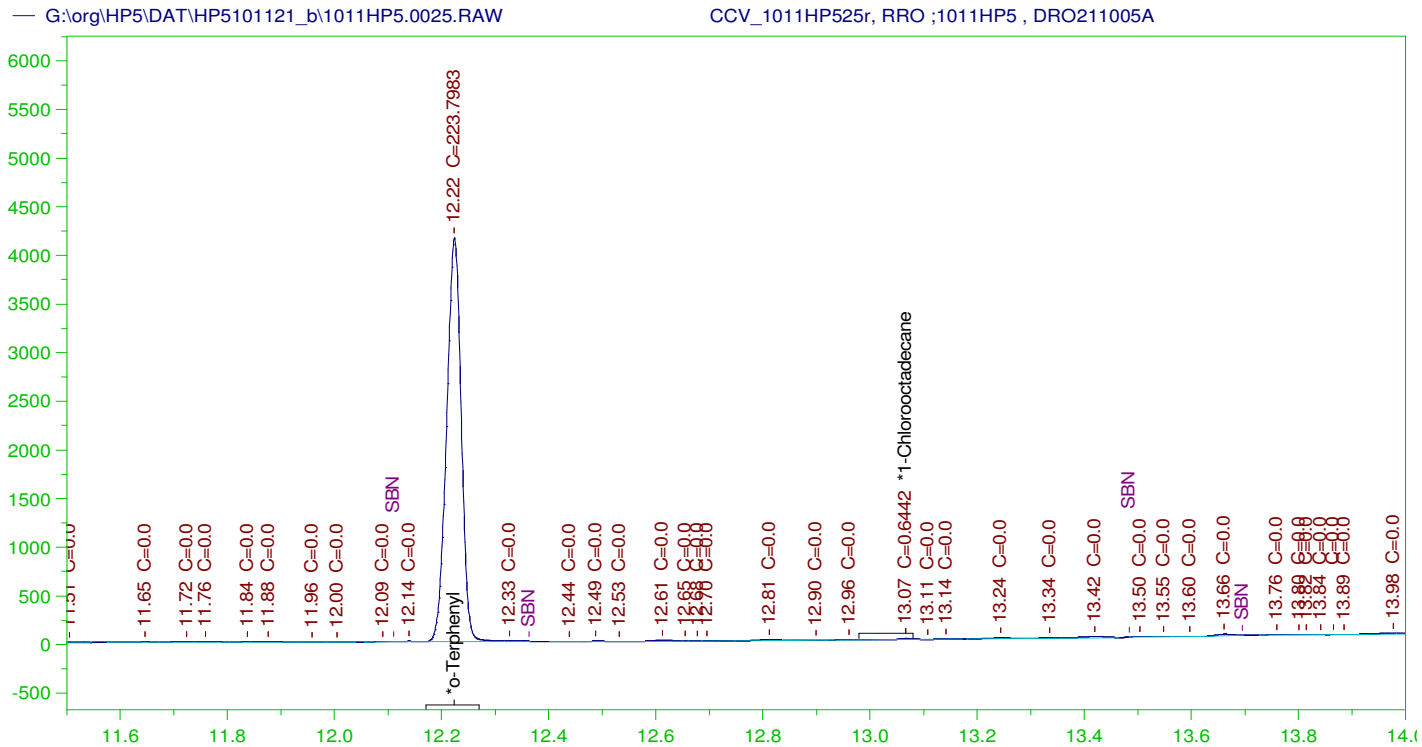
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0025.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4990.42 | 99.81 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 227.617 | 113.81 | 85-115 |
| *1-Chlorooctadecane | 13.067 | 200. | 3.908 | 1.95 | 85-115 |

AMN 10/19/2021

G:\org\HP5\dat\HP5101121_b\Review\025_CCV_1011HP525r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP525r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0025.RAW
Date & Time Acquired: 10/12/2021 4:10:46 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 223.798 | 111.9 | - |
| *1-Chlorooctadecane | 13.067 | 200. | .644 | .32 | - |

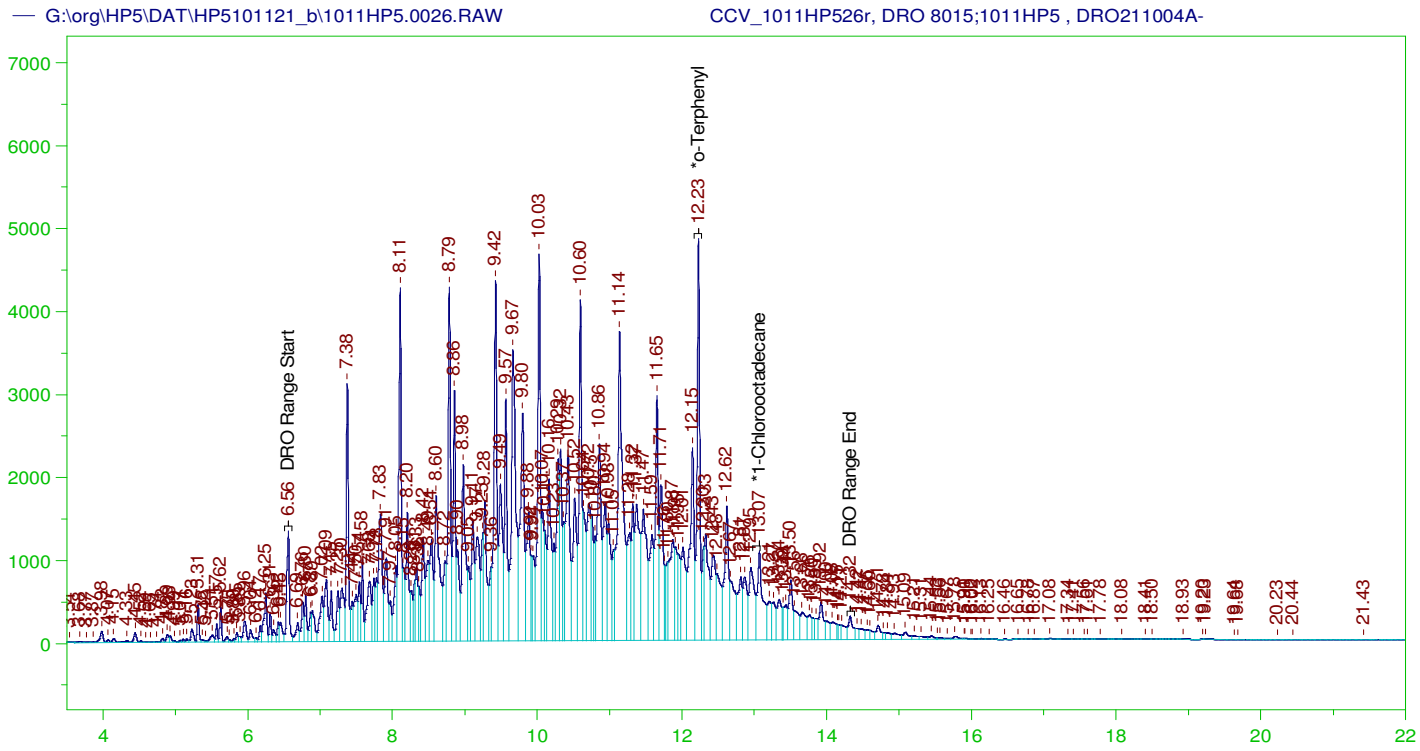
DRO Area:903145.6 DRO Amount: 31.64223
TEH Area:2143437 TEH Amount: 75.09656

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0025.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 75.1 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 223.798 | 111.9 | 85-115 |
| *1-Chlorooctadecane | 13.067 | 200. | .644 | .32 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\025_CCV_1011HP525r_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP526r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0026.RAW
Date & Time Acquired: 10/12/2021 4:53:35 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | 346.415 | 173.21 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 155.954 | 77.98 | - |

DRO Area:4.555412E+08 DRO Amount: 15464.44
TEH Area:4.719636E+08 TEH Amount: 16021.94

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0026.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16021.94 | 106.81 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | 346.415 | 173.21 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 155.954 | 77.98 | 85-115 |

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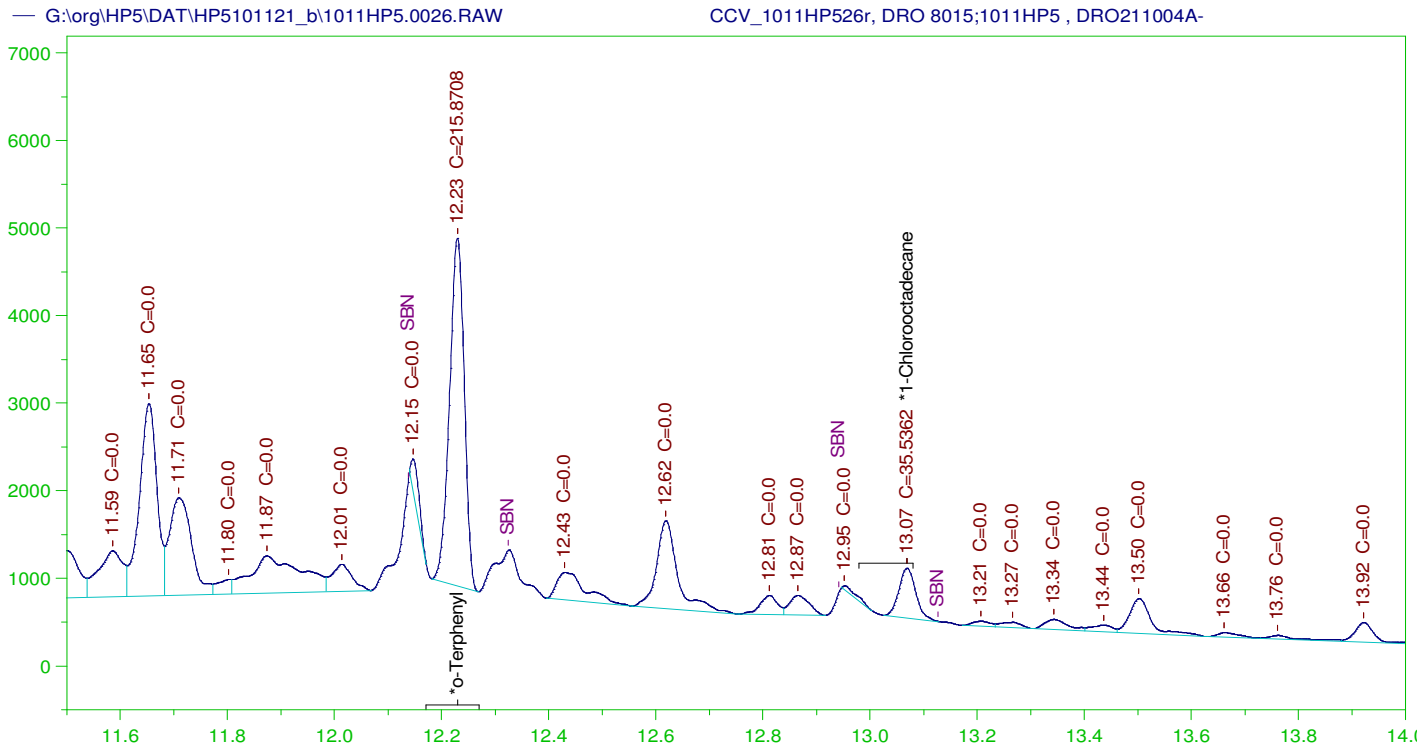


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP526r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0026.RAW
Date & Time Acquired: 10/12/2021 4:53:35 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | 215.871 | 107.94 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 35.536 | 17.77 | - |

DRO Area:2.534756E+08 DRO Amount: 8604.837
TEH Area:2.633399E+08 TEH Amount: 8939.707

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0026.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8939.71 | 59.6 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | 215.871 | 107.94 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 35.536 | 17.77 | 85-115 |

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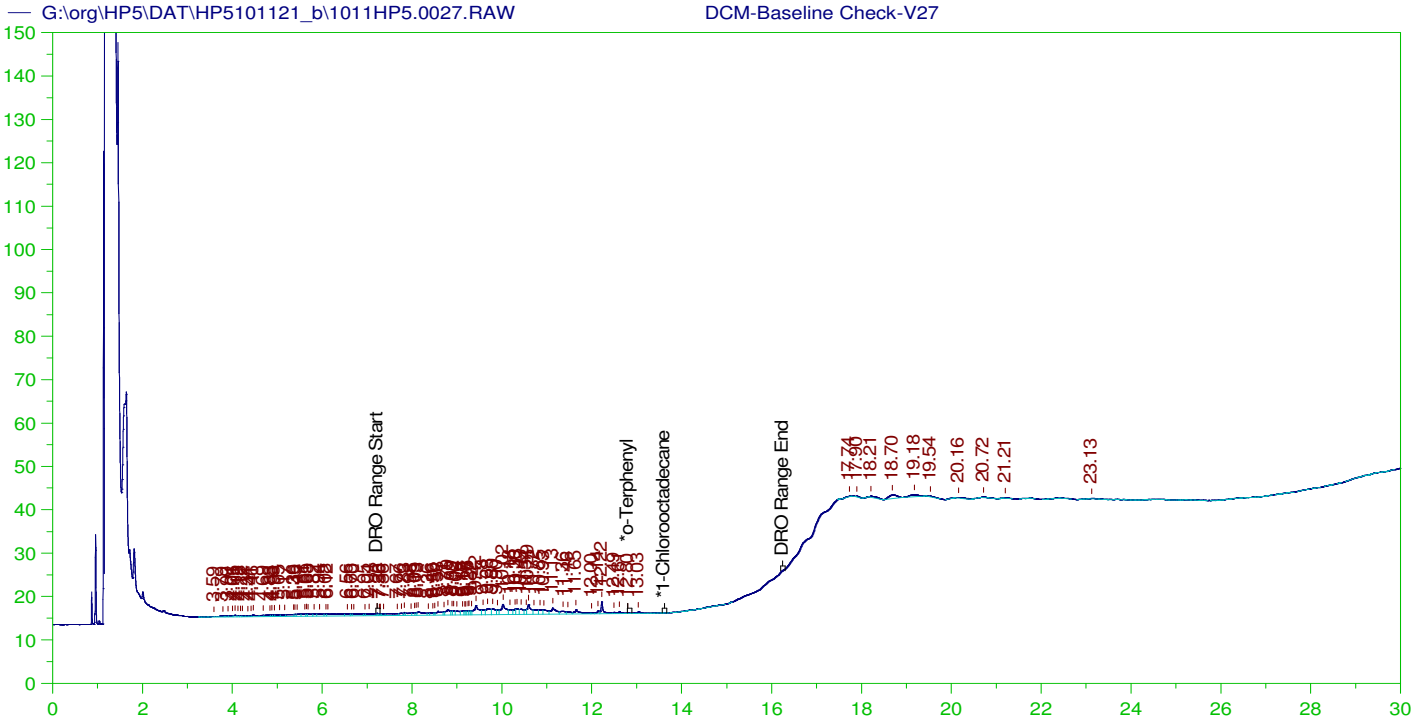



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V27
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0027.RAW
Date & Time Acquired: 10/12/2021 5:36:23 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

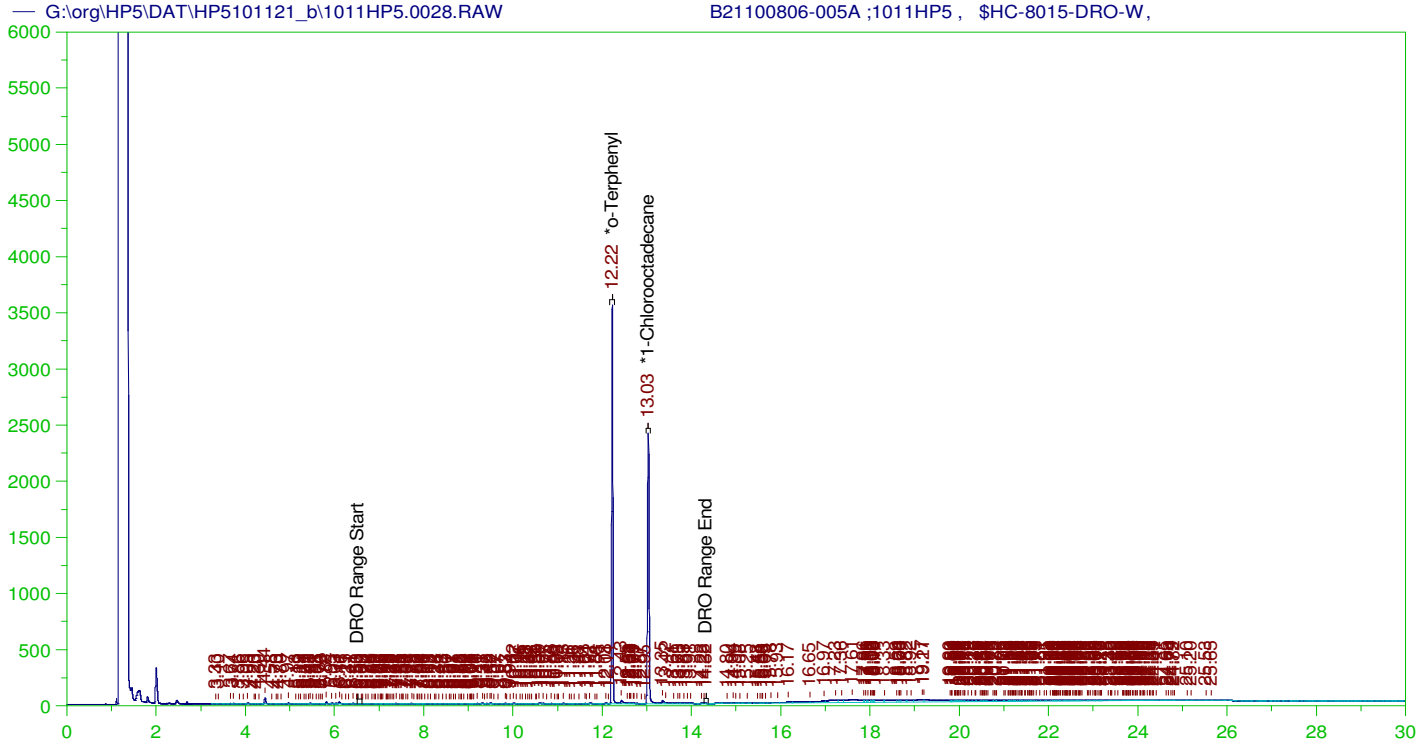
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.796 | 200. | .018 | .01 | - |
| *1-Chlorooctadecane | 29.83 | 200. | . | . | - |

DRO Area:251364.6 DRO Amount: 8.533175
TEH Area:370198.3 TEH Amount: 12.56727

G:\org\HP5\dat\HP5101121_b\Review\027_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

**ERH1796 (RHMW2254-01)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW B21100806-005A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-005A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW
Date & Time Acquired: 10/12/2021 6:19:12 AM
Method File: G:\Org\HP5\Methods\D3_8015-101128-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .189 | .185 | 98.07 | - |
| *1-Chlorooctadecane | 13.03 | .189 | .145 | 76.93 | - |

DRO Area:772529.4 DRO Amount: 2.474091E-02
TEH Area:7186767 TEH Amount: 0.2301624

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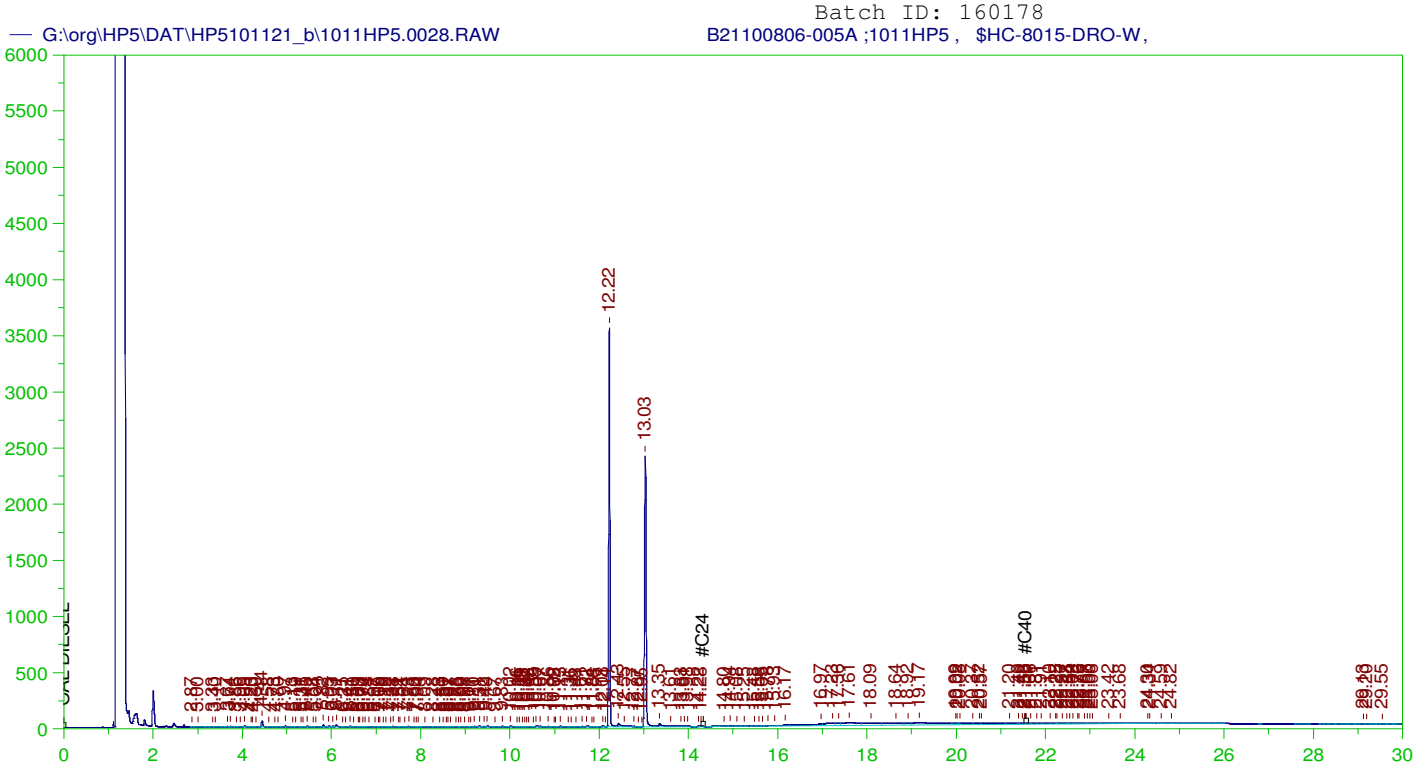
Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-005A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW
Date & Time Acquired: 10/12/2021 6:19:12 AM
Method File: G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

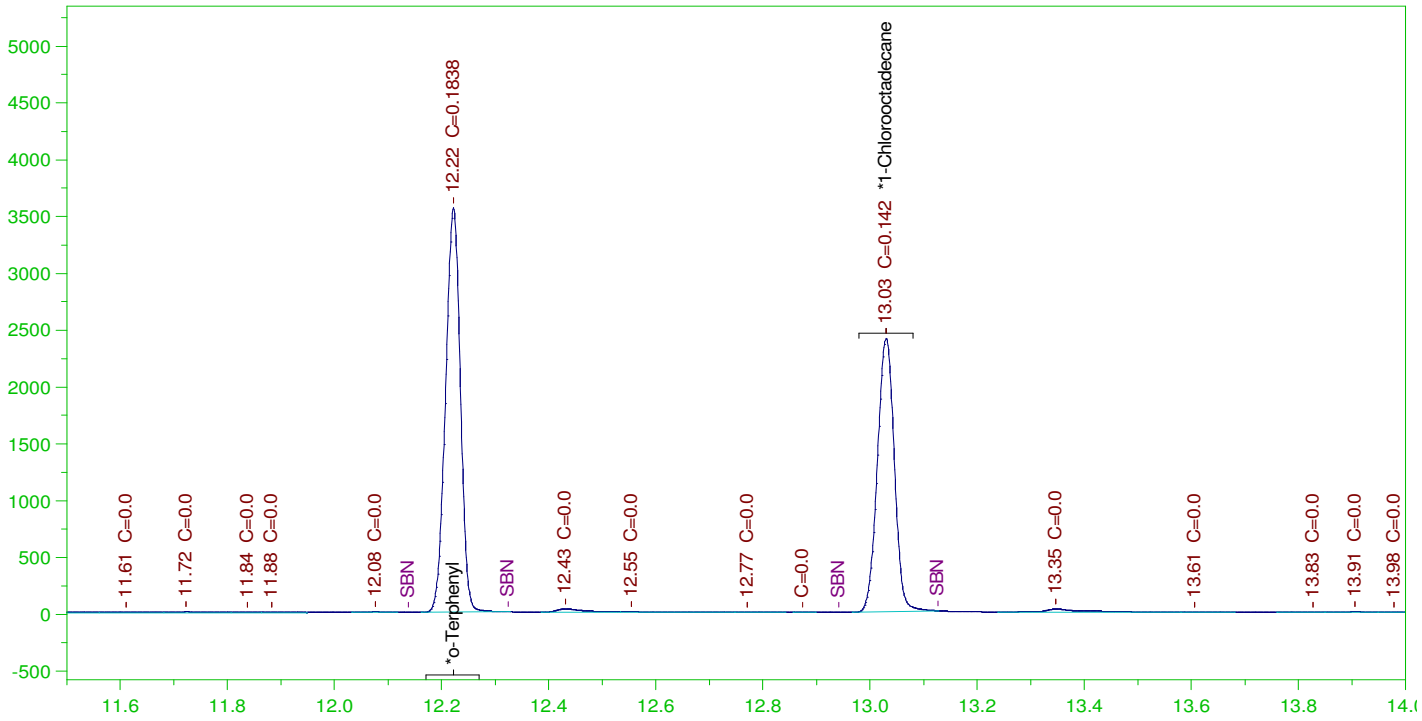
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:5185679 RRO AMOUNT: 0.1713993

**ERH1796 (RHMW2254-01)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW B21100806-005A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

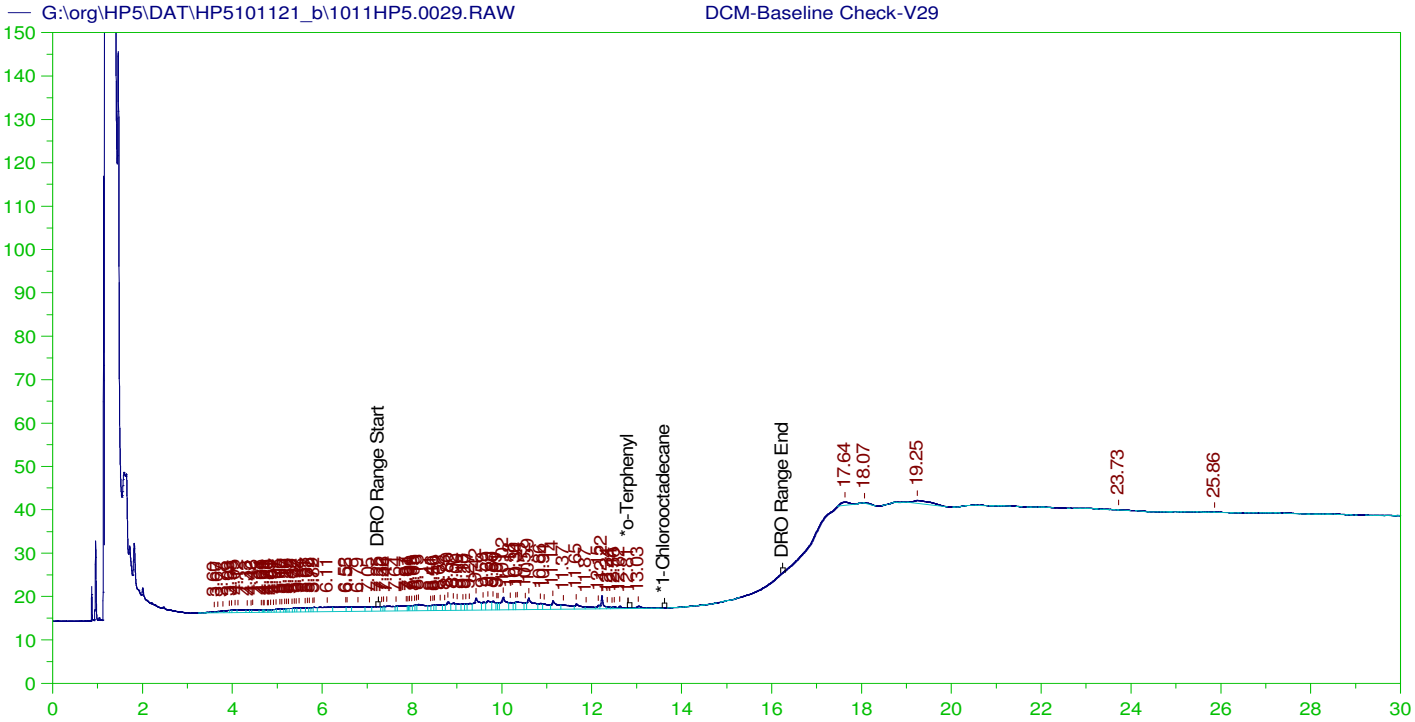
Sample Name: B21100806-005A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW
Date & Time Acquired: 10/12/2021 6:19:12 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .189 | .184 | 97.41 | - |
| *1-Chlorooctadecane | 13.03 | .189 | .142 | 75.28 | - |

DRO Area:2120683 DRO Amount: 6.791667E-02
TEH Area:5626251 TEH Amount: 0.1801855

G:\org\HP5\dat\HP5101121_b\Review\028_B21100806-005A_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V29
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0029.RAW
Date & Time Acquired: 10/12/2021 7:01:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

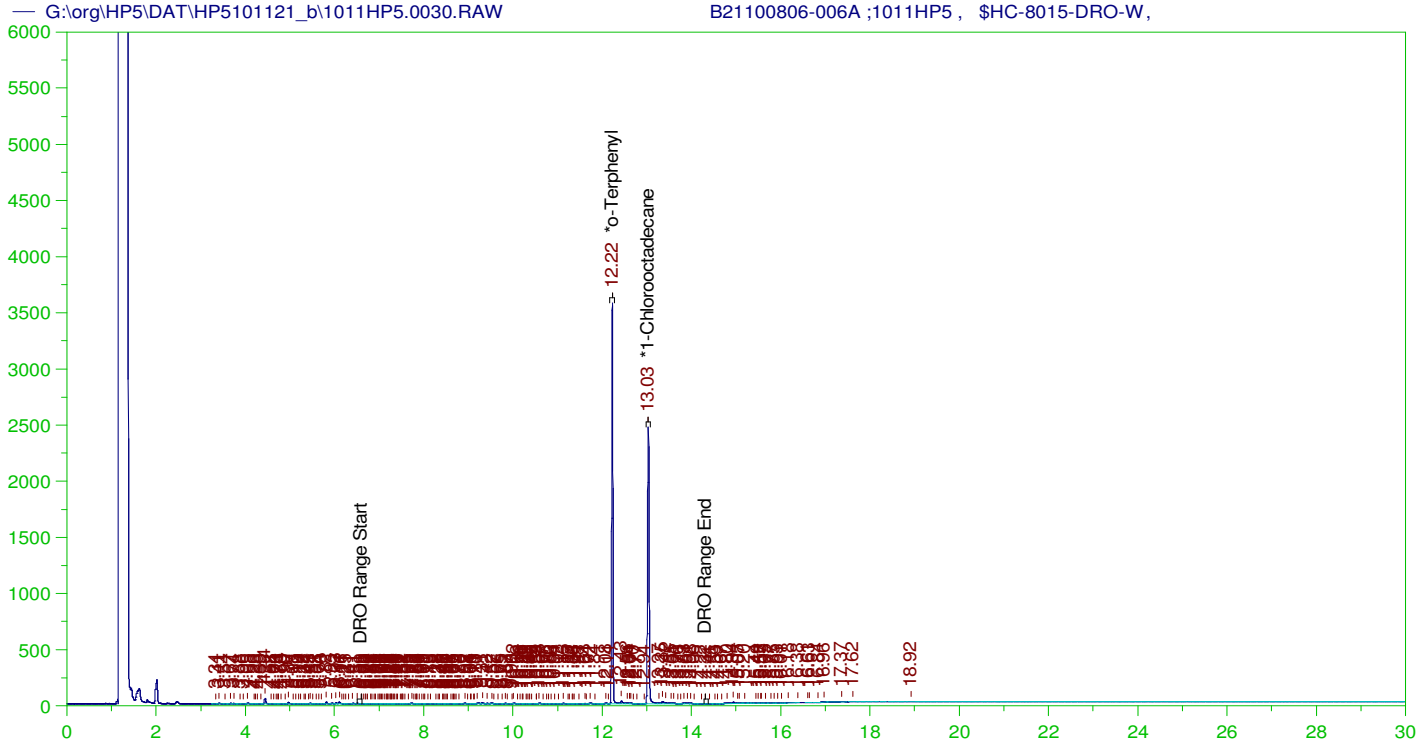
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.808 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.975 | 200. | . | . | - |

DRO Area:407108.8 DRO Amount: 13.82029
TEH Area:608946.2 TEH Amount: 20.67214

G:\org\HP5\dat\HP5101121_b\Review\029_DCM-Baseline Chec_DR_8015-HR-LEXP.xls

**ERH1799 (RHSF)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0030.RAW B21100806-006A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-006A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0030.RAW
Date & Time Acquired: 10/12/2021 7:44:16 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

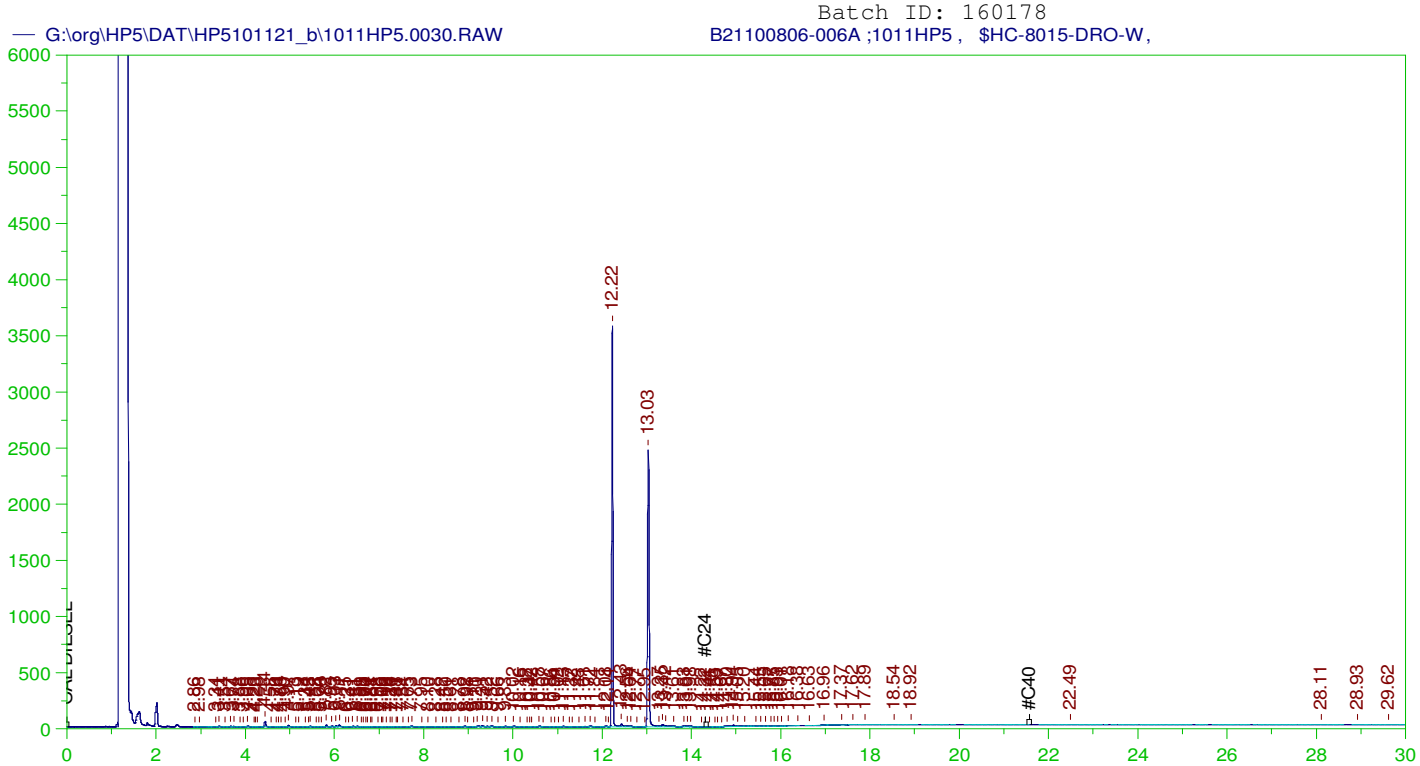
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .192 | .19 | 98.56 | - |
| *1-Chlorooctadecane | 13.031 | .192 | .15 | 77.82 | - |

DRO Area:727645.1 DRO Amount: 0.0237516
TEH Area:1354752 TEH Amount: 4.422145E-02

G:\org\HP5\dat\HP5101121_b\Review\030_B21100806-006A_DR_8015-C24-HS-L%.xls

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-006A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0030.RAW
Date & Time Acquired: 10/12/2021 7:44:16 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

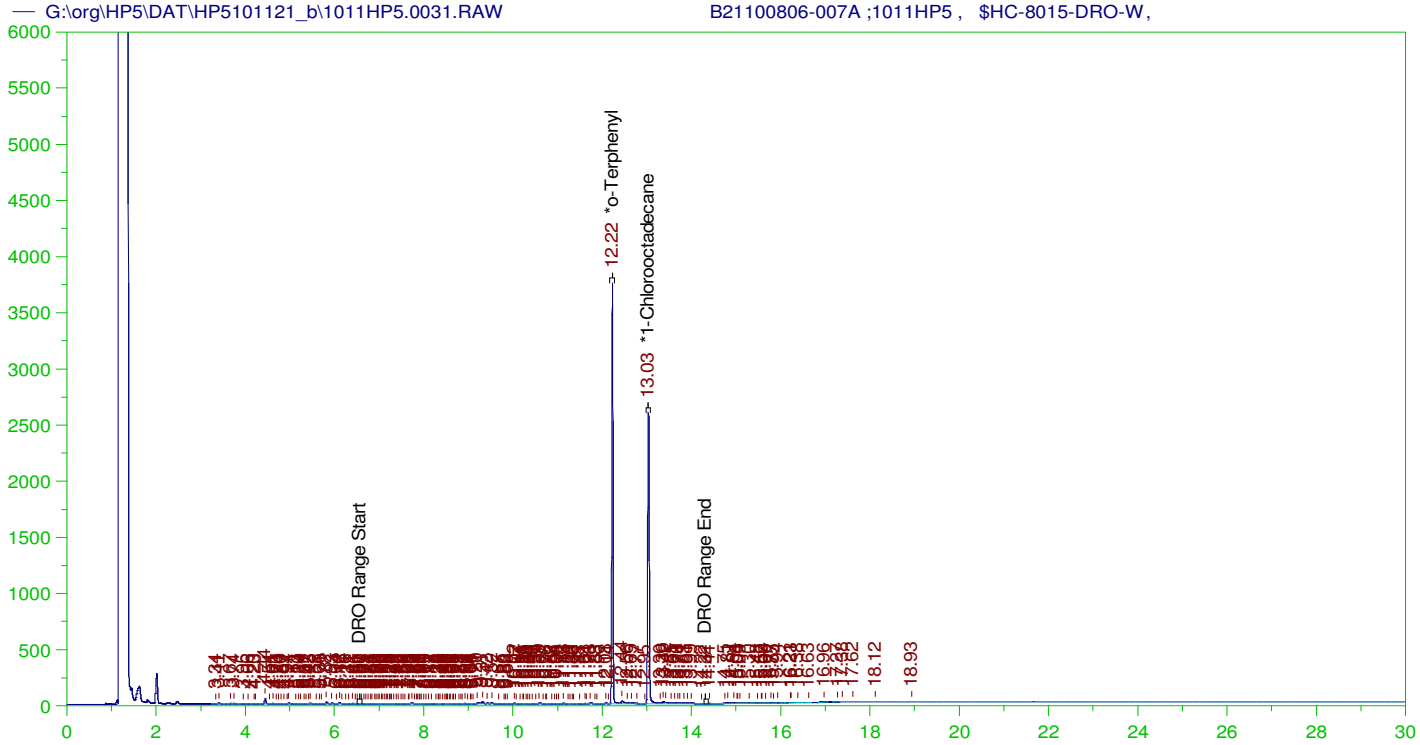
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:174734 RRO AMOUNT: 5.886449E-03

G:\org\HP5\dat\HP5101121_b\Review\030_B21100806-006A_DR_OIL-S-AJ-L%.xls

**ERH1801 (RHSF)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0031.RAW B21100806-007A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-007A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0031.RAW
Date & Time Acquired: 10/12/2021 8:27:14 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .192 | .197 | 102.4 | - |
| *1-Chlorooctadecane | 13.034 | .192 | .157 | 81.7 | - |

DRO Area:773495.7 DRO Amount: 2.524824E-02
TEH Area:1348851 TEH Amount: 4.402883E-02

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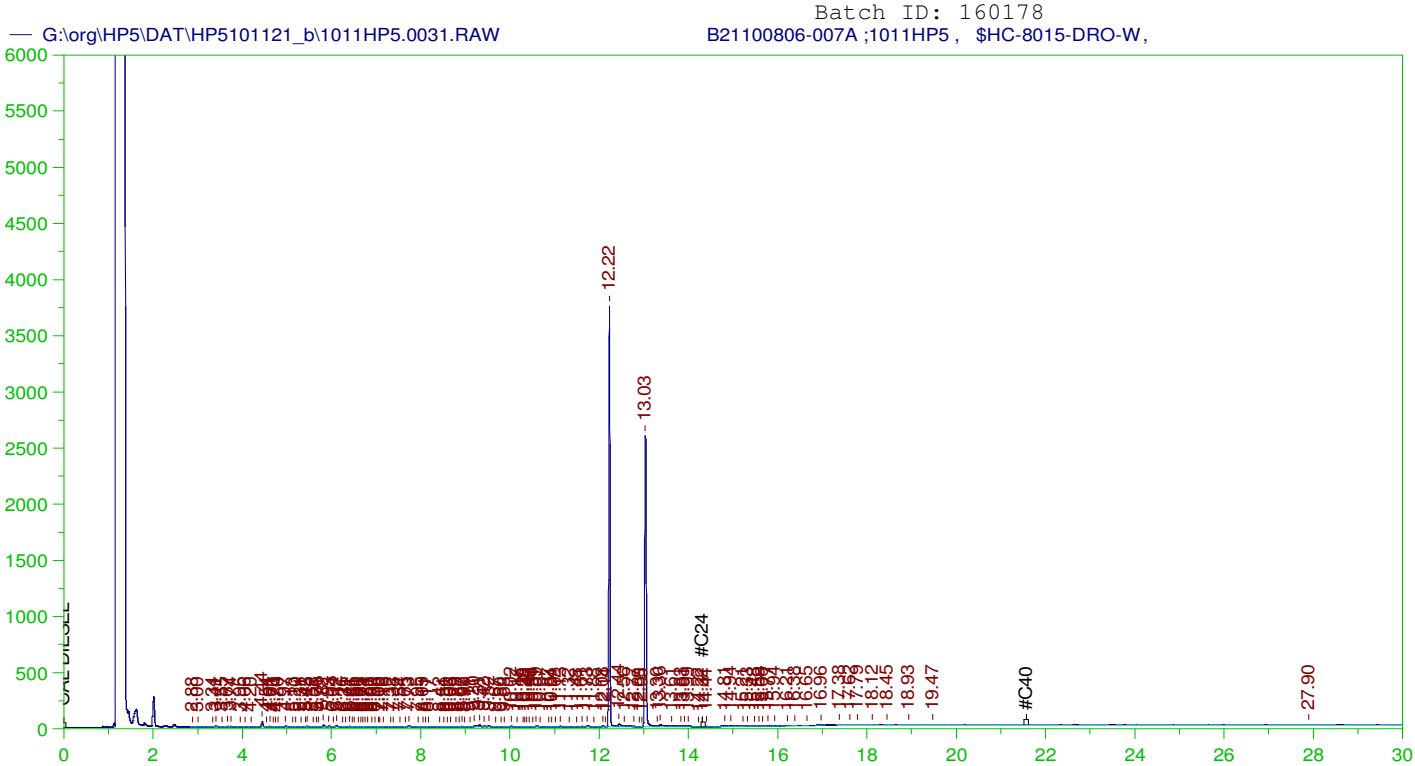
Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-007A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0031.RAW
Date & Time Acquired: 10/12/2021 8:27:14 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

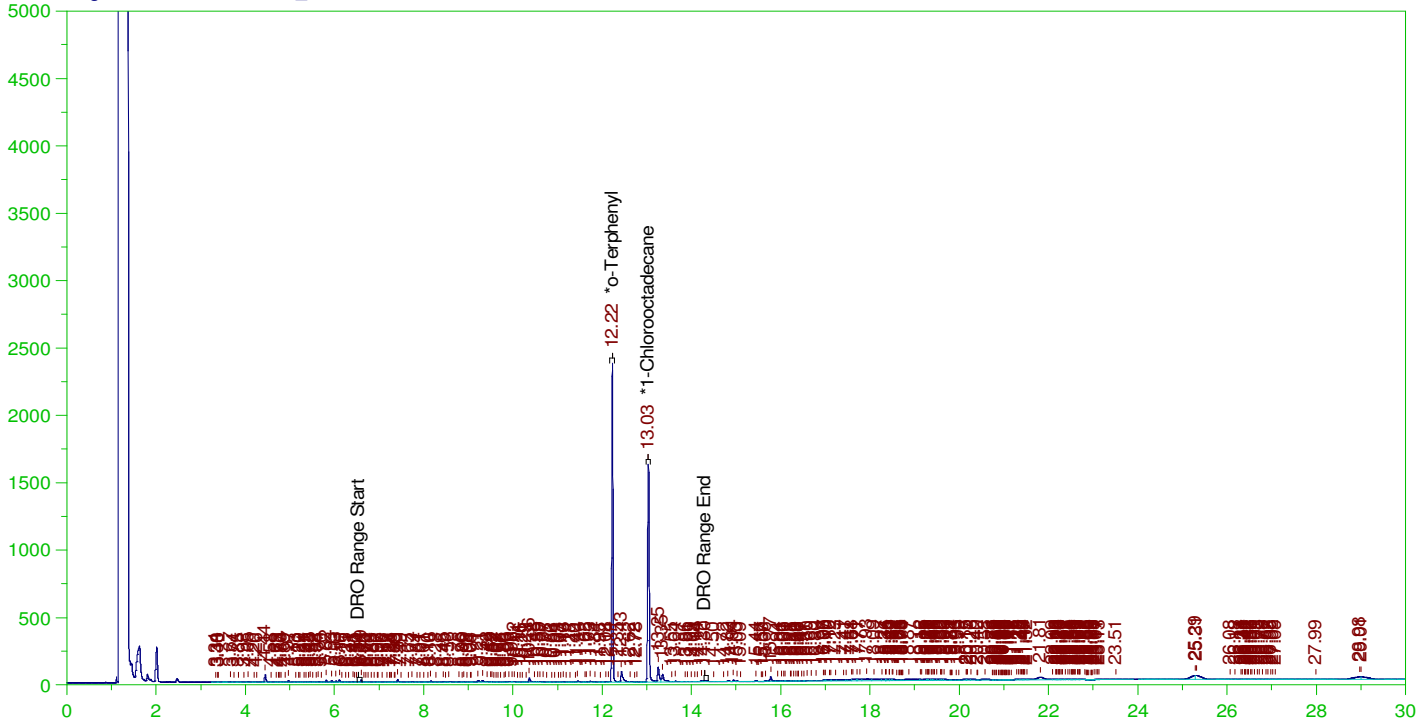
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:177677.9 RRO AMOUNT: 5.985624E-03

G:\org\HP5\dat\HP5101121_b\Review\031_B21100806-007A_DR_OIL-S-AJ-L%.xls

**ERH1793 (RHMW05)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0032.RAW B21100806-004A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-004A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0032.RAW
Date & Time Acquired: 10/12/2021 9:09:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-101132-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

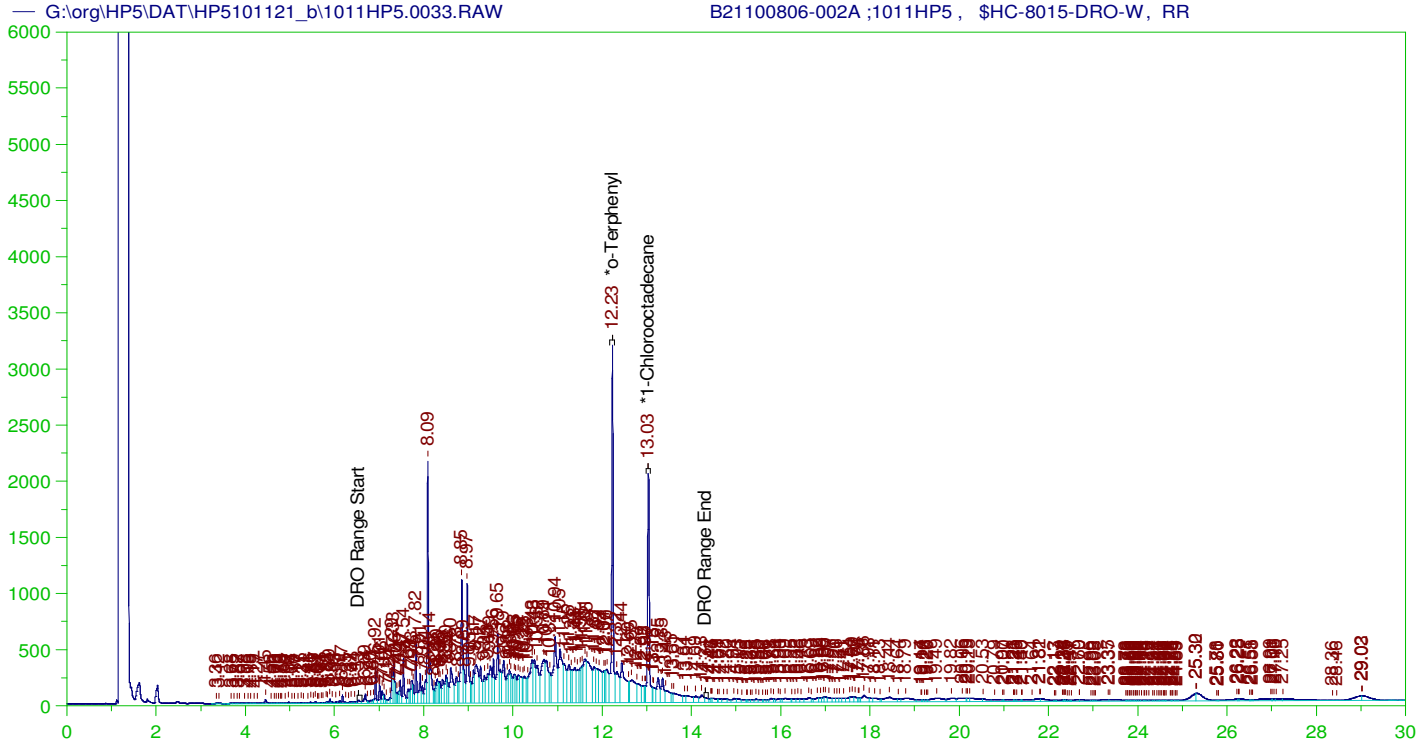
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | .19 | .123 | 64.45 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .097 | 50.84 | - |

DRO Area:1727432 DRO Amount: 5.584936E-02
TEH Area:6352013 TEH Amount: 0.2053661

G:\org\HP5\dat\HP5101121_b\Review\032_B21100806-004A_DR_8015-101132-C24-HS-L%.xls

**ERH1787 (RHMW02)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW
Date & Time Acquired: 10/12/2021 9:52:36 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.226 | .19 | .209 | 110.07 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .143 | 75.36 | - |

DRO Area:9.782638E+07 DRO Amount: 3.147821
TEH Area:1.165166E+08 TEH Amount: 3.749227

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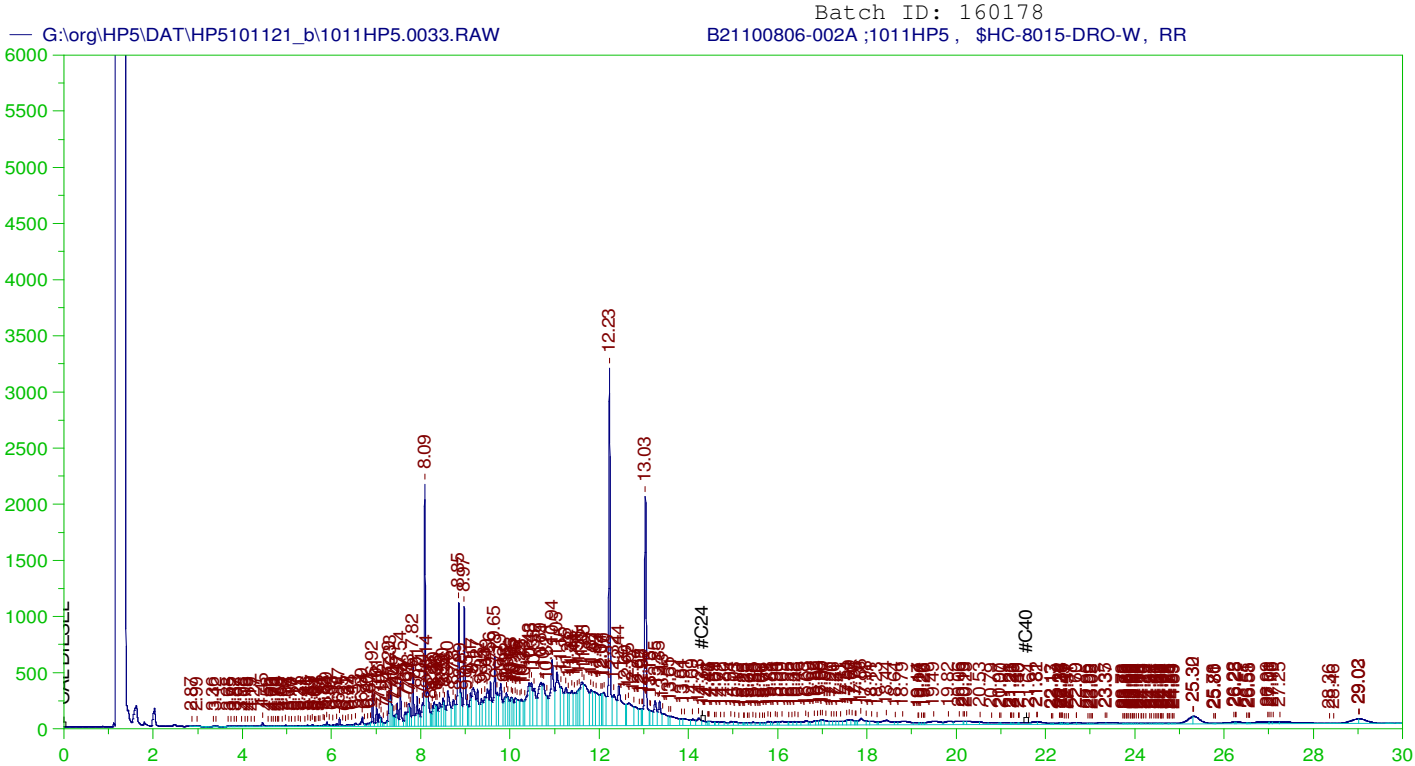
Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW
Date & Time Acquired: 10/12/2021 9:52:36 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:1.151319E+07 RRO AMOUNT: 0.3823423

**ERH1787 (RHMW02)** Batch ID: 160178

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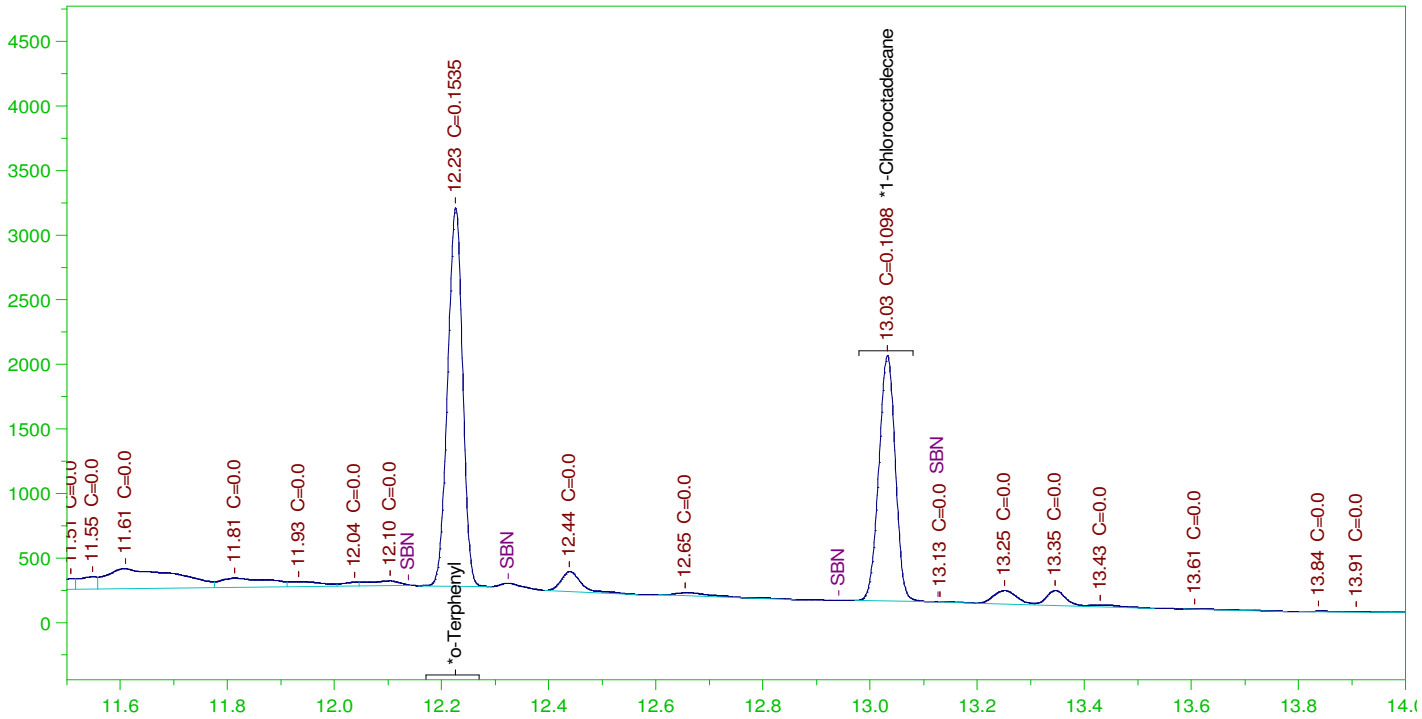



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

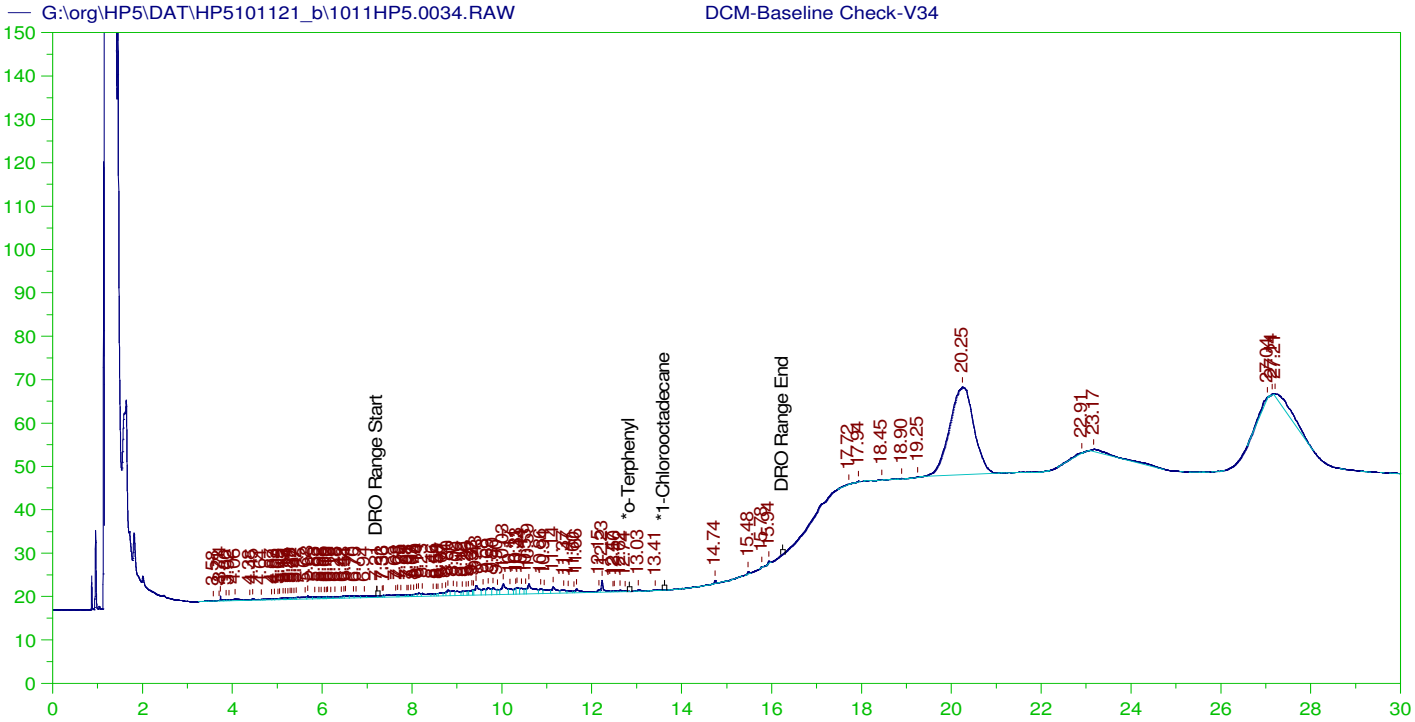
Sample Name: B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW
Date & Time Acquired: 10/12/2021 9:52:36 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.226 | .19 | .154 | 80.98 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .11 | 57.93 | - |

DRO Area:4.190378E+07 DRO Amount: 1.348365
TEH Area:4.283257E+07 TEH Amount: 1.378251

G:\org\HP5\dat\HP5101121_b\Review\033_B21100806-002A_DS_8015-HS-L#.xls



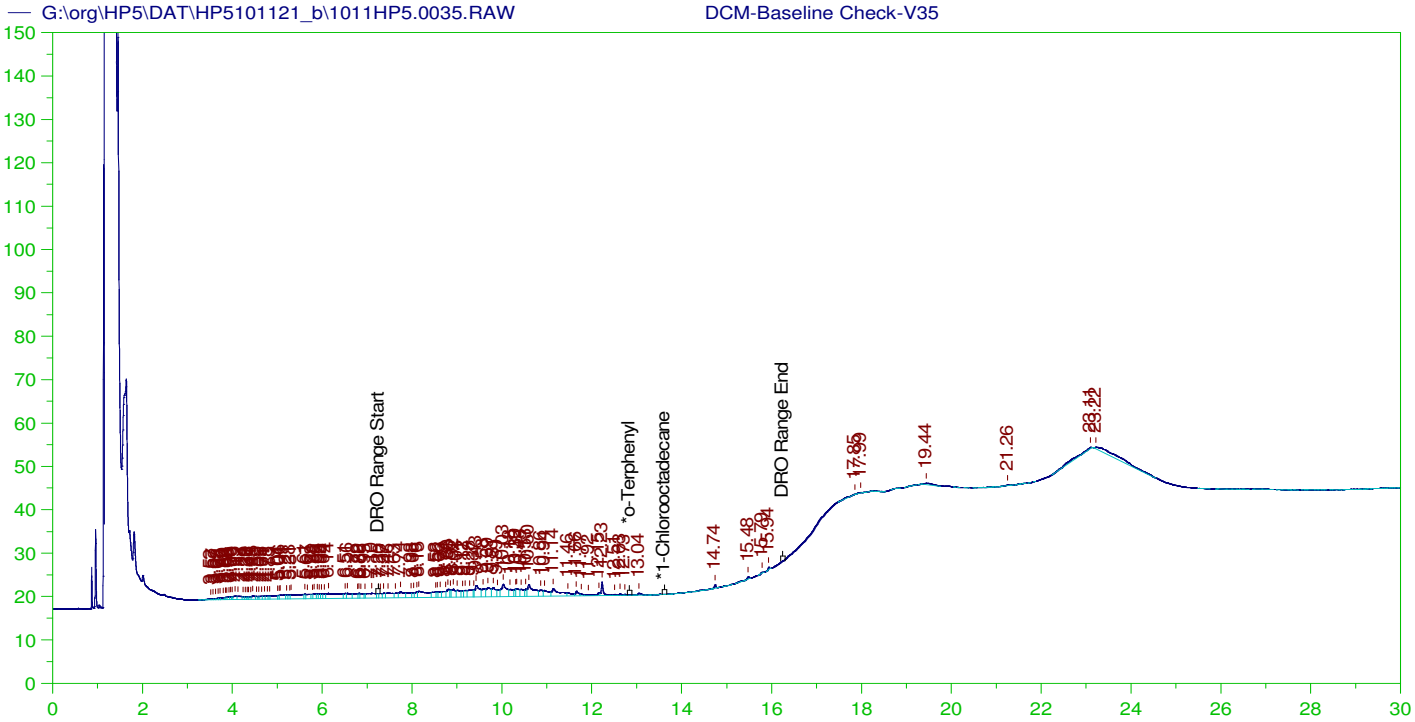

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V34
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0034.RAW
Date & Time Acquired: 10/12/2021 10:35:19 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.837 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.837 | 200. | . | . | - |

DRO Area:280227.5 DRO Amount: 9.512997
TEH Area:1225165 TEH Amount: 41.59118




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V35
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0035.RAW
Date & Time Acquired: 10/12/2021 11:17:53 AM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

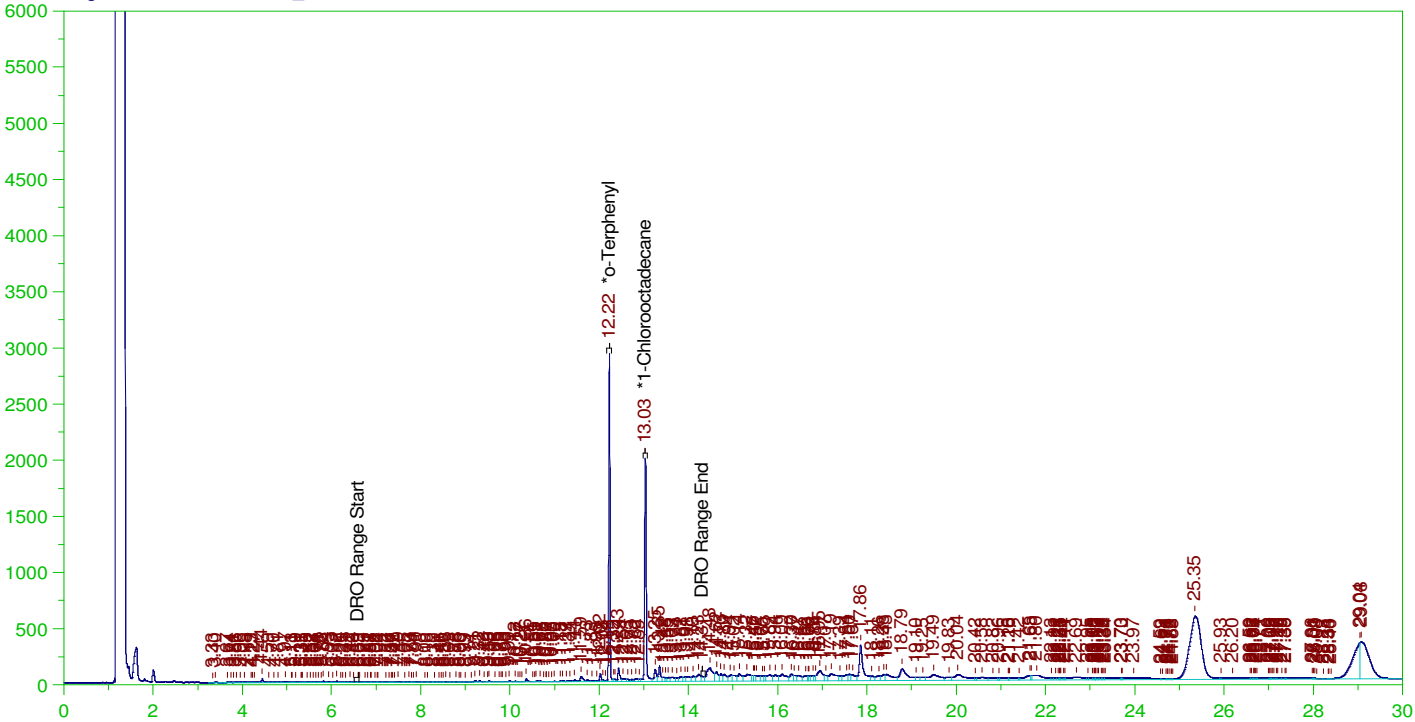
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.971 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.971 | 200. | . | . | - |

DRO Area:399978.5 DRO Amount: 13.57823
TEH Area:647826.3 TEH Amount: 21.99202

**ERH1790 (RHMW03)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW
Date & Time Acquired: 10/12/2021 12:00:27 PM
Method File: G:\Org\HP5\Methods\D3_8015-101136-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

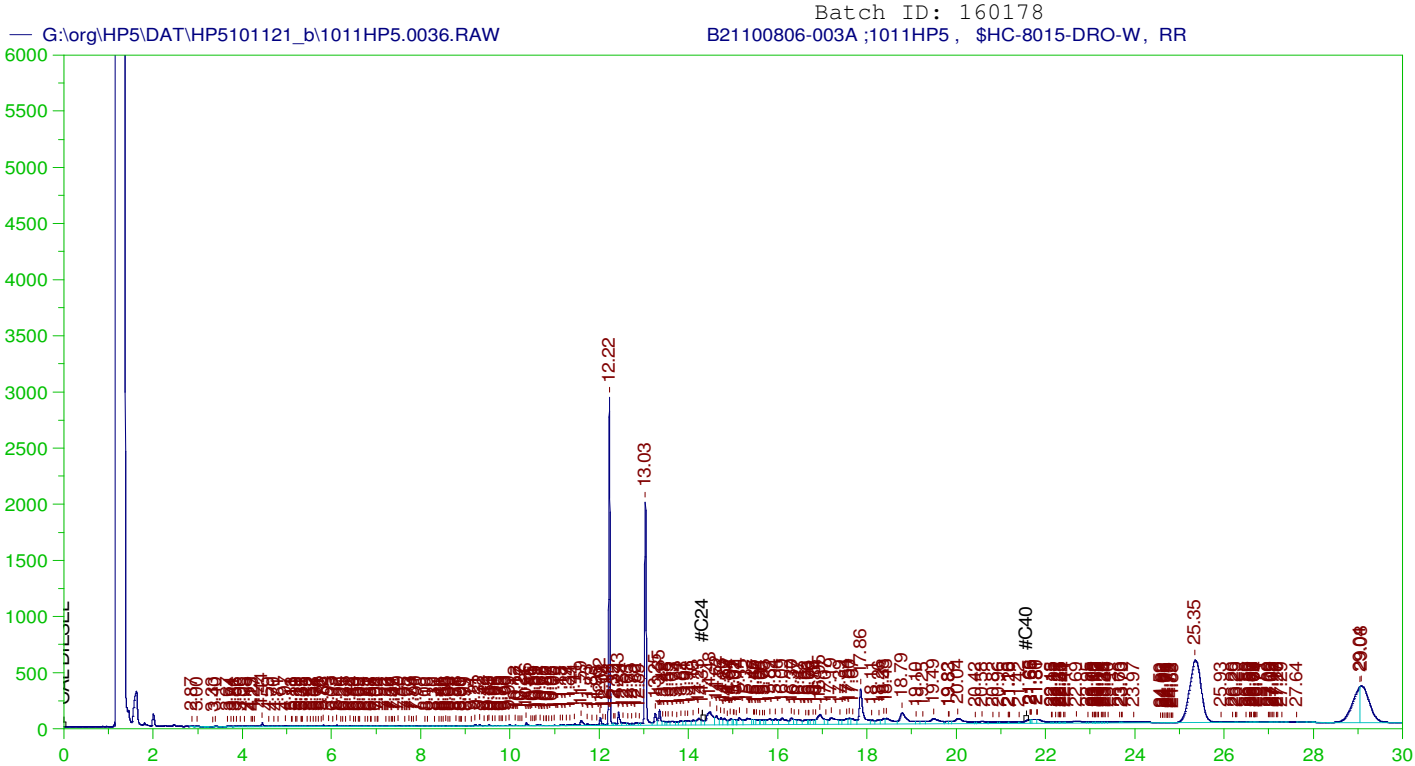
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .19 | .155 | 81.46 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .126 | 66.22 | - |

DRO Area:5633685 DRO Amount: 0.1821419
TEH Area:4.957473E+07 TEH Amount: 1.602794

G:\org\HP5\dat\HP5101121_b\Review\036_B21100806-003A_D3_8015-101136-C24-HS-L%.xls

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW
Date & Time Acquired: 10/12/2021 12:00:27 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

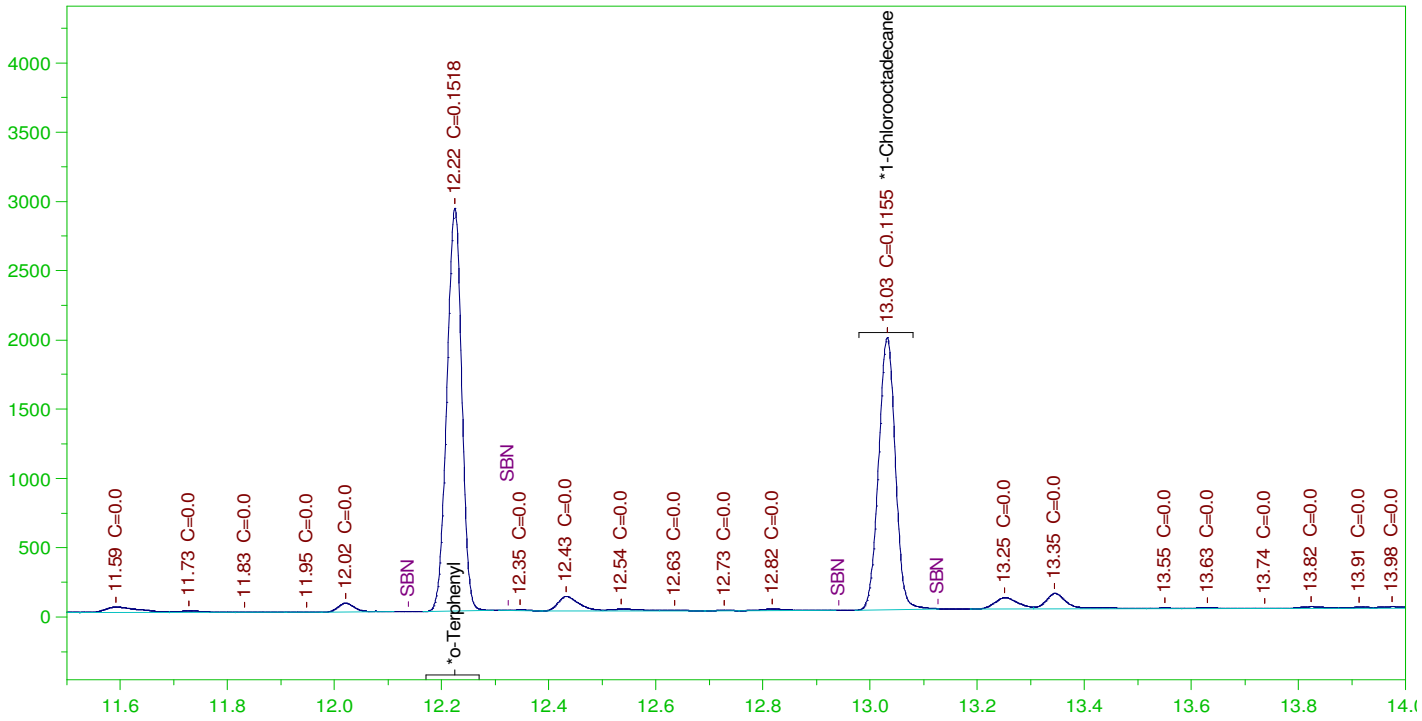
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:1.719216E+07 RRO AMOUNT: 0.5736546

G:\org\HP5\dat\HP5101121_b\Review\036_B21100806-003A_D3_OIL-S-101133-AJ-L%.xls

**ERH1790 (RHMW03)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

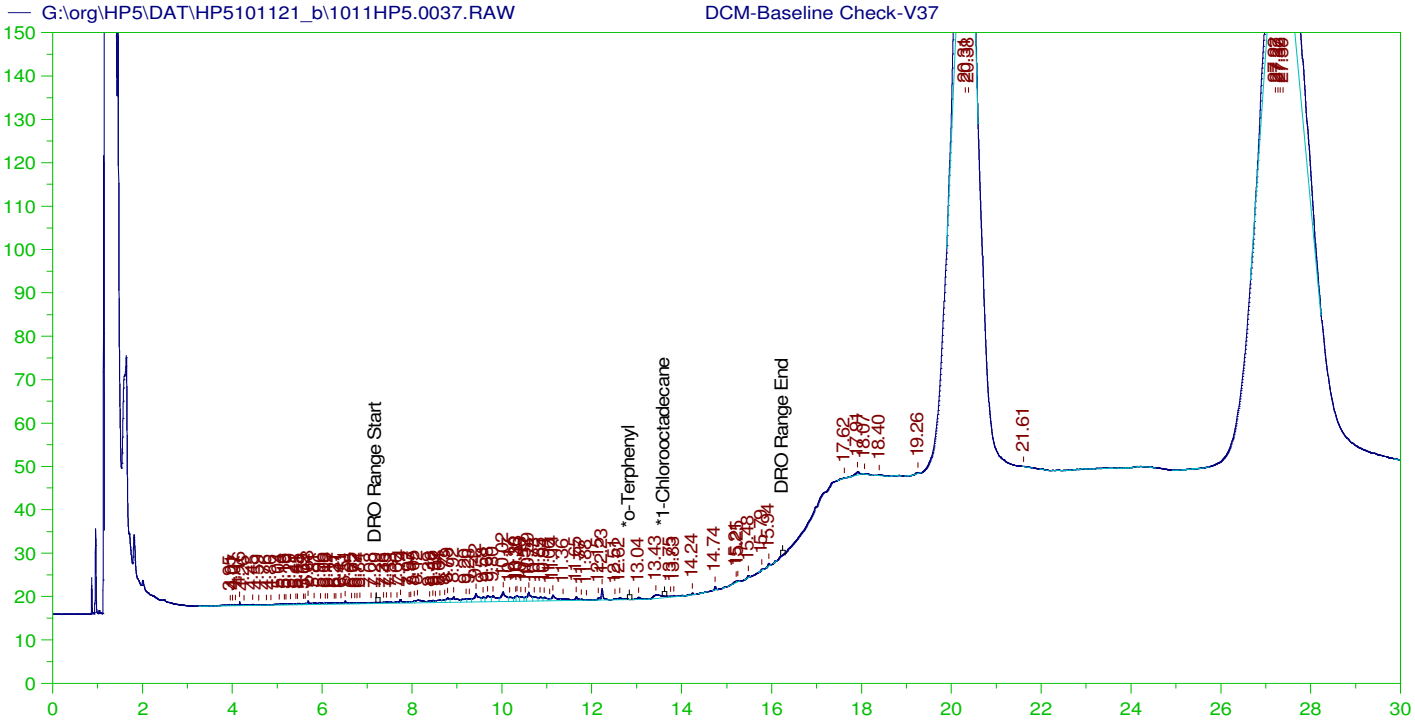
Sample Name: B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW
Date & Time Acquired: 10/12/2021 12:00:27 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .19 | .152 | 79.71 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .115 | 60.62 | - |

DRO Area:3883792 DRO Amount: 0.1255663
TEH Area:4347497 TEH Amount: 0.1405583

G:\org\HP5\dat\HP5101121_b\Review\036_B21100806-003A_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

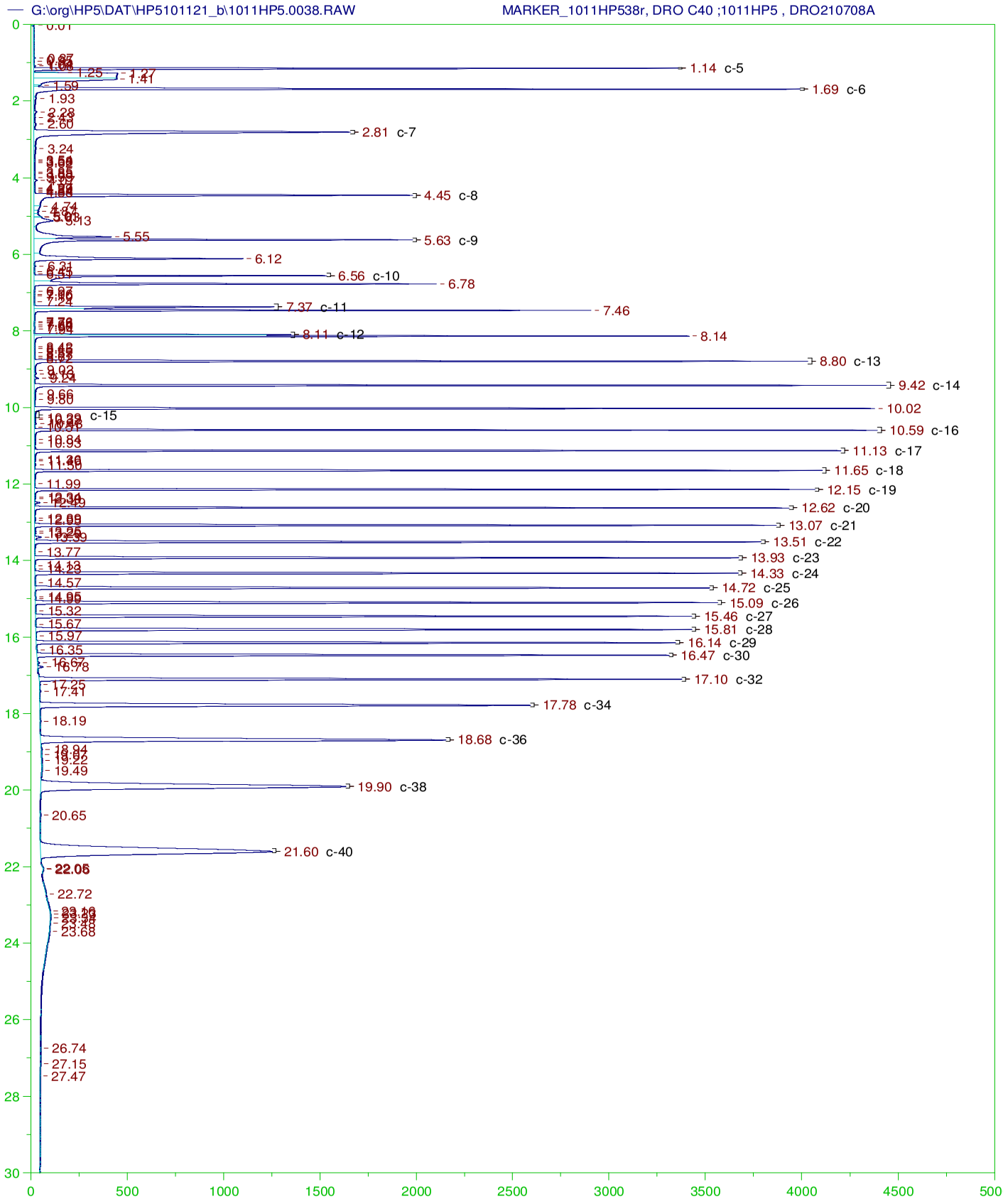
Sample Name: DCM-Baseline Check-V37
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0037.RAW
Date & Time Acquired: 10/12/2021 12:43:35 PM
Method File: G:\Org\HP5\Methods\DR_8015-HR-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HR.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

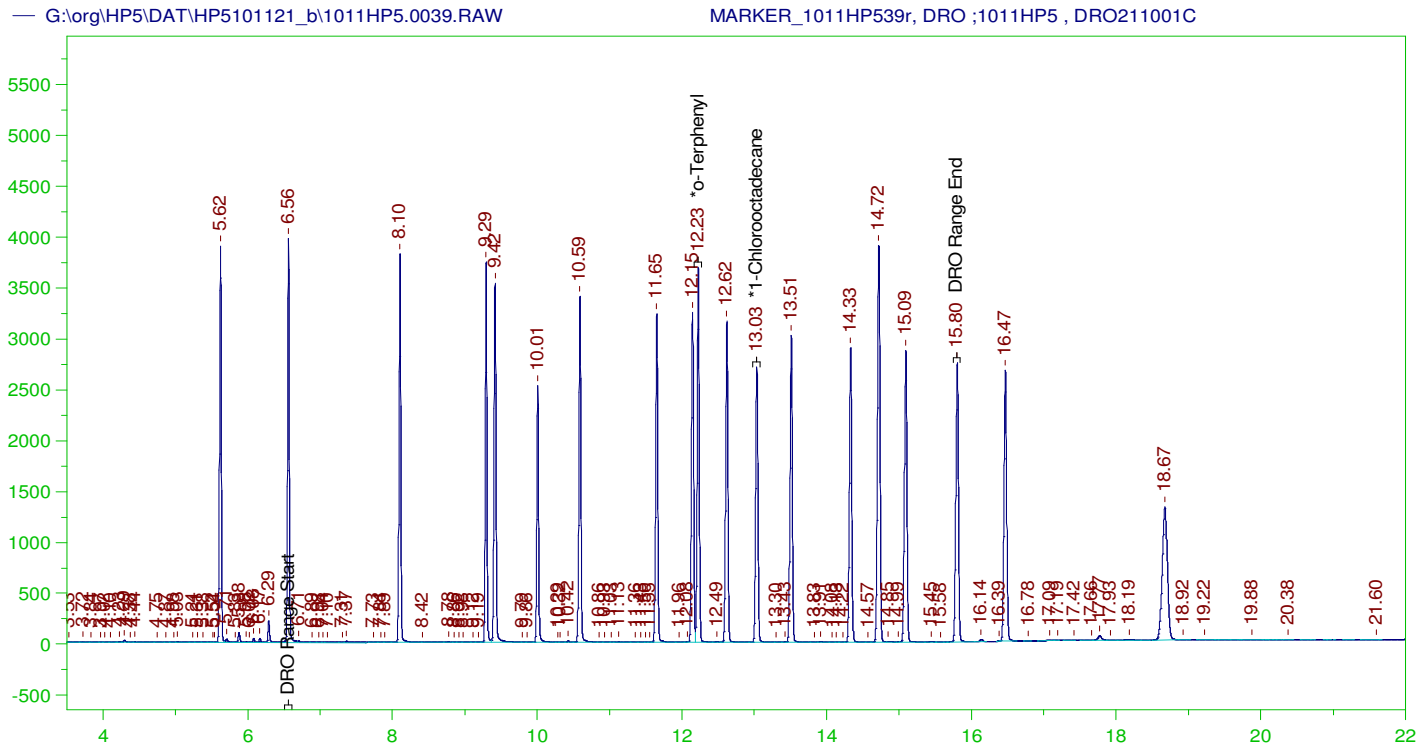
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 7.19 to 16.3

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.882 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.882 | 200. | . | . | - |

DRO Area:224404.9 DRO Amount: 7.617964
TEH Area:1543742 TEH Amount: 52.40603

G:\org\HP5\dat\HP5101121_b\Review\037_DCM-Baseline Chec_DR_8015-HR-LEXP.xls


G:\org\HP5\DAT\HP5101121_b\1011HP5.0038.RAW
MARKER_1011HP538r, DRO C40 ;1011HP5 , DRO210708A
1.14 c-5
1.69 c-6
2.81 c-7
4.45 c-8
5.63 c-9
6.56 c-10
7.37 c-11
8.11 c-12
8.80 c-13
9.42 c-14
10.02
10.59 c-16
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.09 c-26
15.46 c-27
15.81 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
19.90 c-38
21.60 c-40
G:\org\HP5\dat\HP5101121_b\Review\038_MARKER_1011HP538r_CSC211011.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

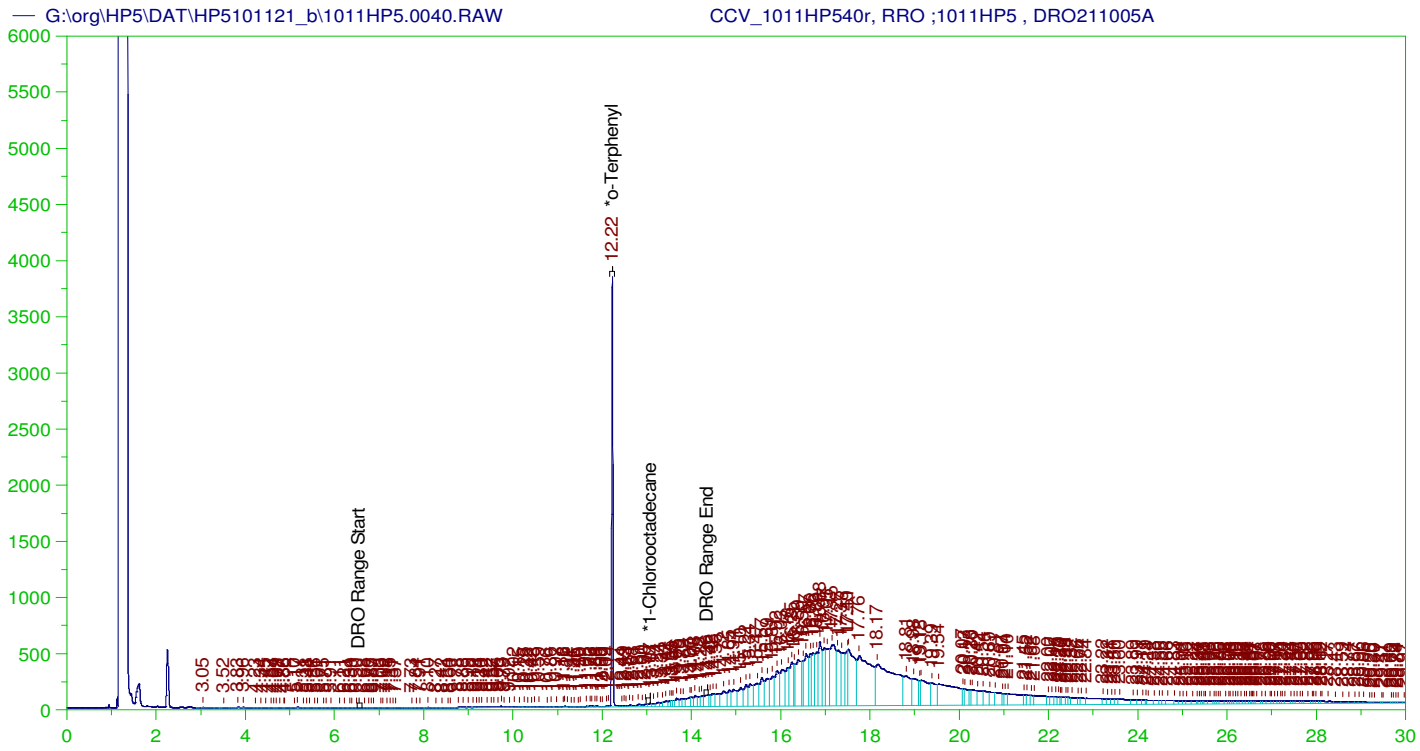
Sample Name: MARKER_1011HP539r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0039.RAW
Date & Time Acquired: 10/12/2021 2:08:53 PM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.226 | .2 | .204 | 102.01 | - |
| *1-Chlorooctadecane | 13.034 | .2 | .165 | 82.46 | - |

DRO Area:9.324538E+07 DRO Amount: 3.165439
TEH Area:1.141333E+08 TEH Amount: 3.874528

G:\org\HP5\dat\HP5101121_b\Review\039_MARKER_1011HP539r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP540r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0040.RAW
Date & Time Acquired: 10/12/2021 2:52:09 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 214.108 | 107.05 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 3.822 | 1.91 | - |

DRO Area:6002268 DRO Amount: 210.293
TEH (Oil Range)Area:1.303394E+08 TEH (Oil Range)Amount: 4566.519

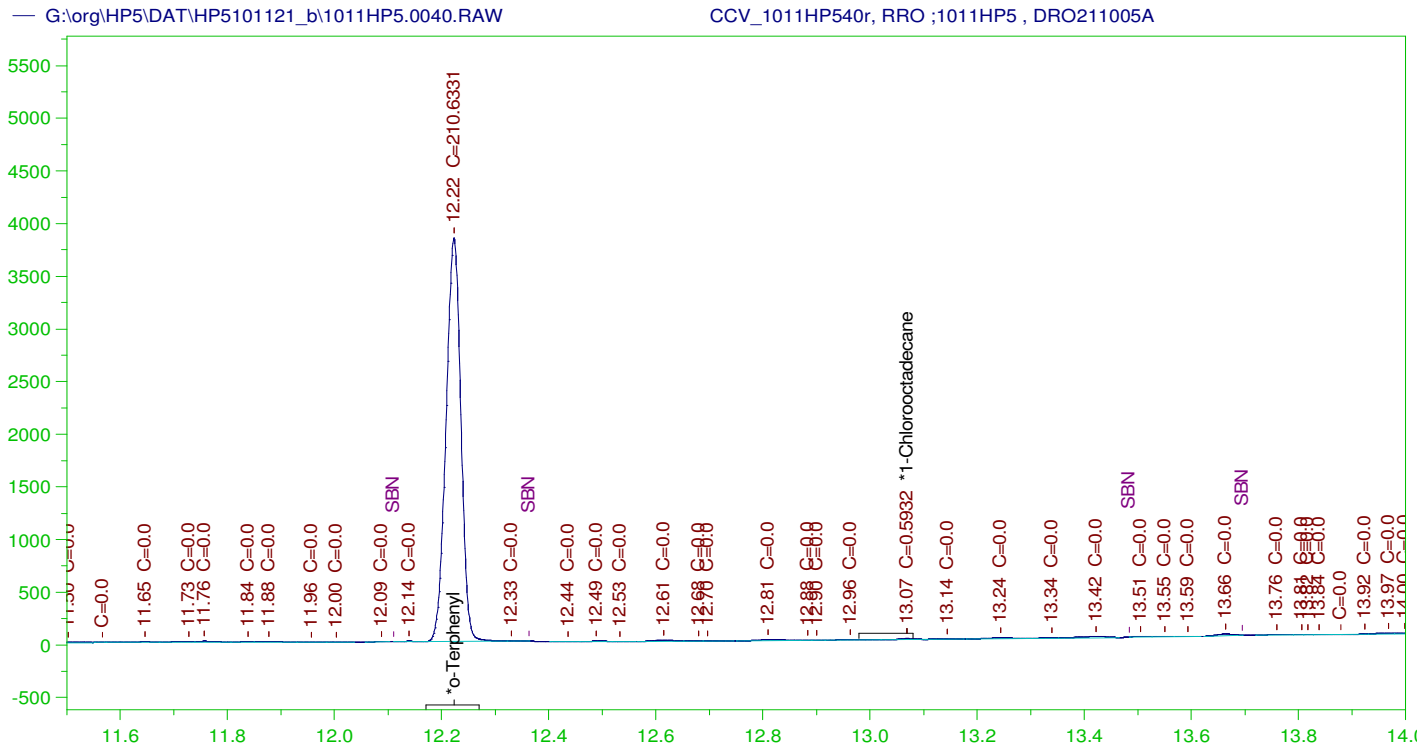
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0040.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4566.52 | 91.33 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 214.108 | 107.05 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 3.822 | 1.91 | 85-115 |

AMN 10/19/2021

G:\org\HP5\dat\HP5101121_b\Review\040_CCV_1011HP540r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP540r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0040.RAW
Date & Time Acquired: 10/12/2021 2:52:09 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

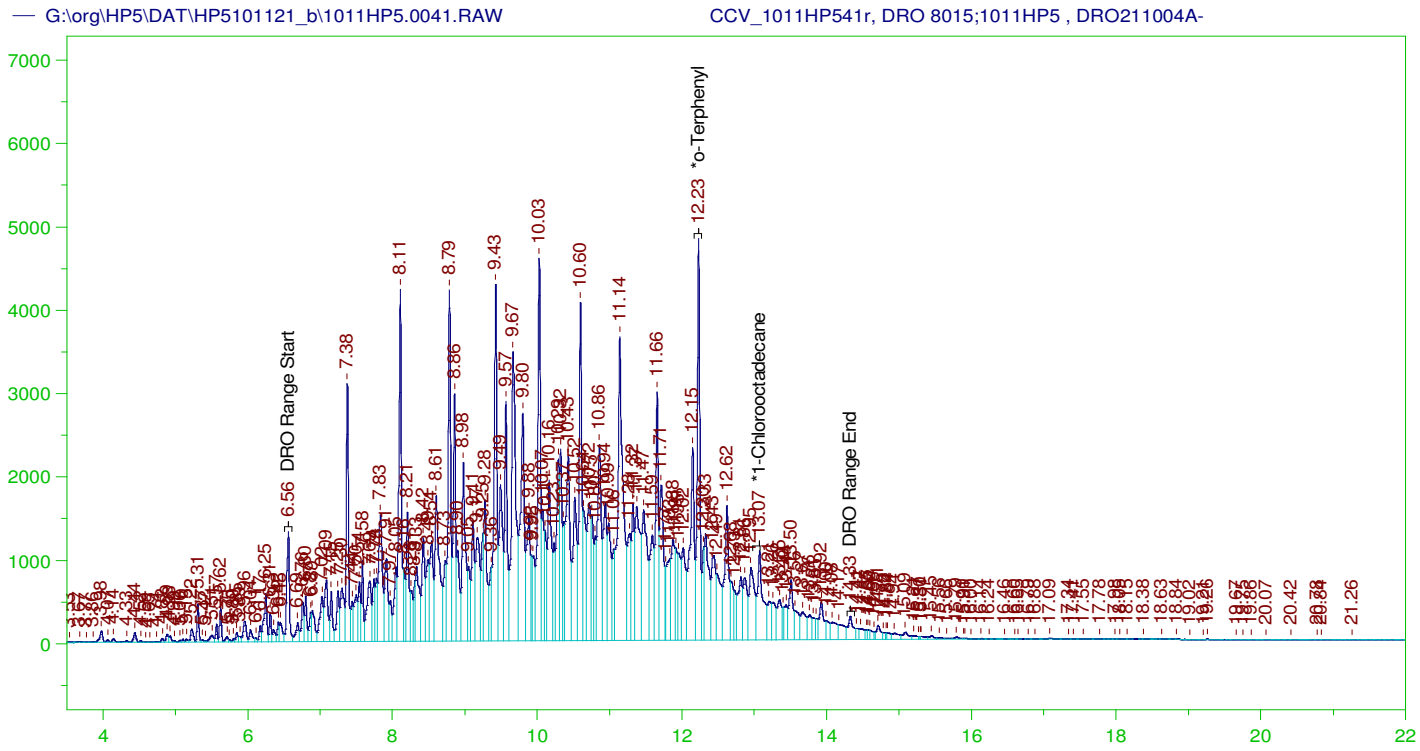
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 210.633 | 105.32 | - |
| *1-Chlorooctadecane | 13.069 | 200. | .593 | .3 | - |

DRO Area:858595.4 DRO Amount: 30.08139
TEH Area:2058936 TEH Amount: 72.13601

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0040.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 72.14 | 1.44 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 210.633 | 105.32 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | .593 | .3 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP541r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0041.RAW
Date & Time Acquired: 10/12/2021 3:34:55 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.231 | 200. | 344.532 | 172.27 | - |
| *1-Chlorooctadecane | 13.071 | 200. | 153.609 | 76.8 | - |

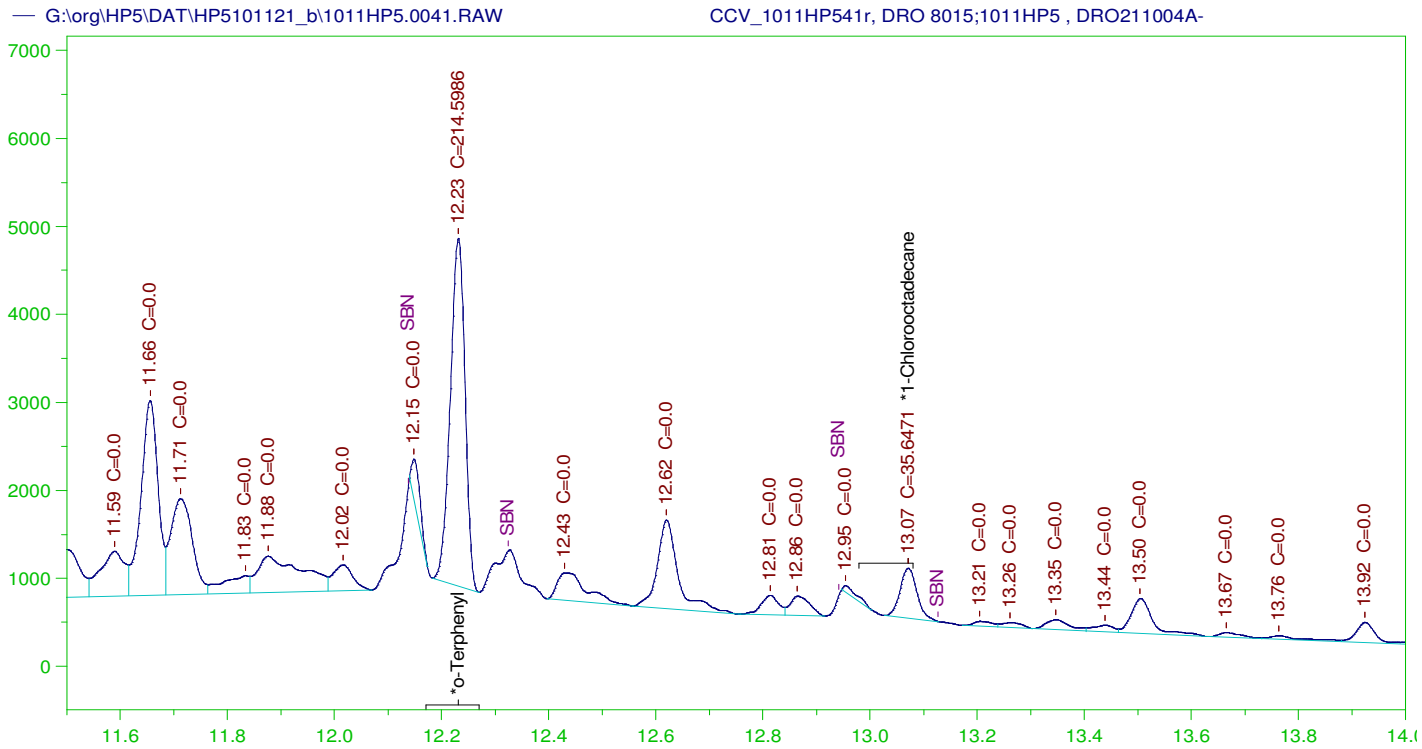
DRO Area:4.531507E+08 DRO Amount: 15383.29
TEH Area:4.693902E+08 TEH Amount: 15934.58

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15934.58 | 106.23 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.231 | 200. | 344.532 | 172.27 | 85-115 |
| *1-Chlorooctadecane | 13.071 | 200. | 153.609 | 76.8 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\041_CCV_1011HP541r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP541r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0041.RAW
Date & Time Acquired: 10/12/2021 3:34:55 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.231 | 200. | 214.599 | 107.3 | - |
| *1-Chlorooctadecane | 13.071 | 200. | 35.647 | 17.82 | - |

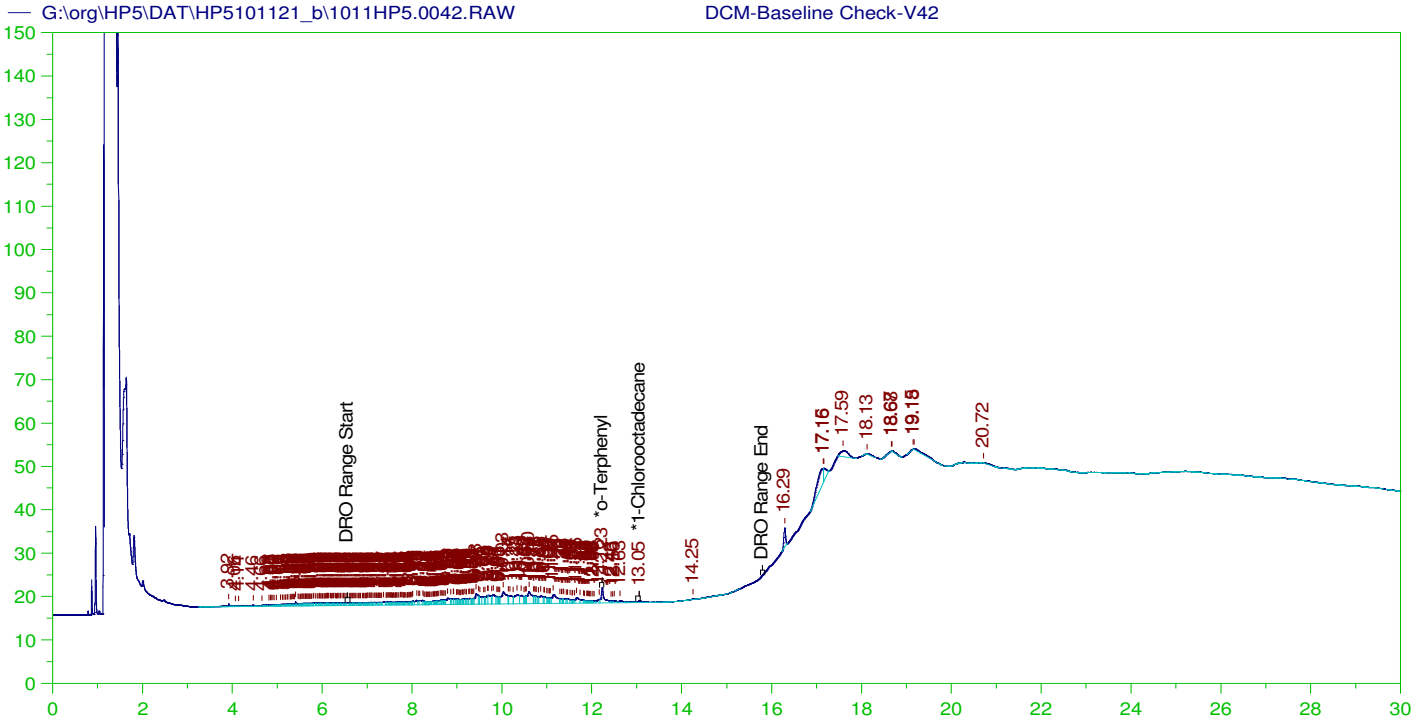
DRO Area:2.51284E+08 DRO Amount: 8530.441
TEH Area:2.611027E+08 TEH Amount: 8863.76

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8863.76 | 59.09 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.231 | 200. | 214.599 | 107.3 | 85-115 |
| *1-Chlorooctadecane | 13.071 | 200. | 35.647 | 17.82 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\041_CCV_1011HP541r_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V42
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0042.RAW
Date & Time Acquired: 10/12/2021 4:17:49 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

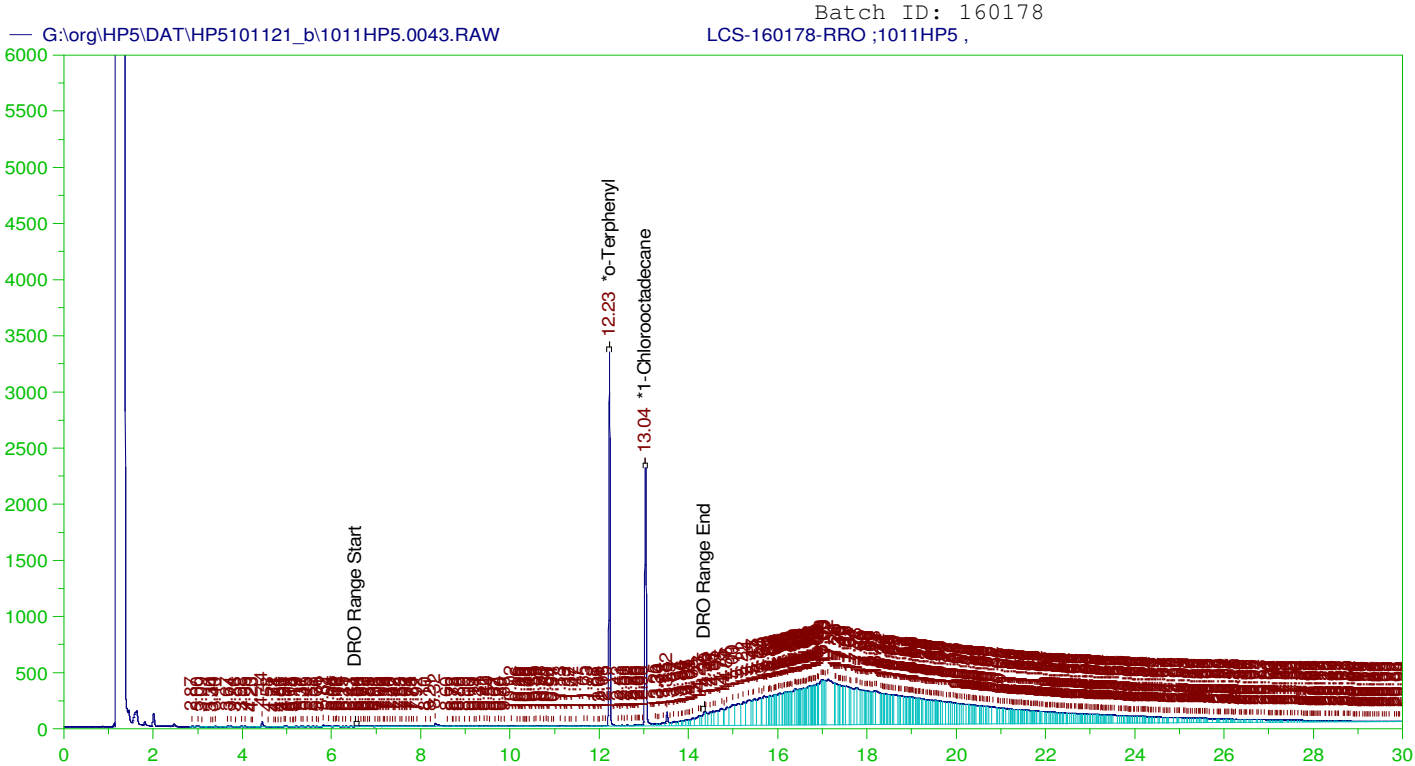
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | .458 | .23 | - |
| *1-Chlorooctadecane | 13.053 | 200. | .058 | .03 | - |

DRO Area:395442.1 DRO Amount: 13.42423
TEH Area:569509.8 TEH Amount: 19.33338

G:\org\HP5\dat\HP5101121_b\Review\042_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0043.RAW
Date & Time Acquired: 10/12/2021 5:00:36 PM
Method File: G:\Org\HP5\Methods\D3_OIL-101143-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | .2 | .184 | 92.07 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .147 | 73.46 | - |

DRO Area:4437520 DRO Amount: 0.1554711
TEH (Oil Range)Area:1.287489E+08 TEH (Oil Range)Amount: 4.510794

AMN 10/19/2021

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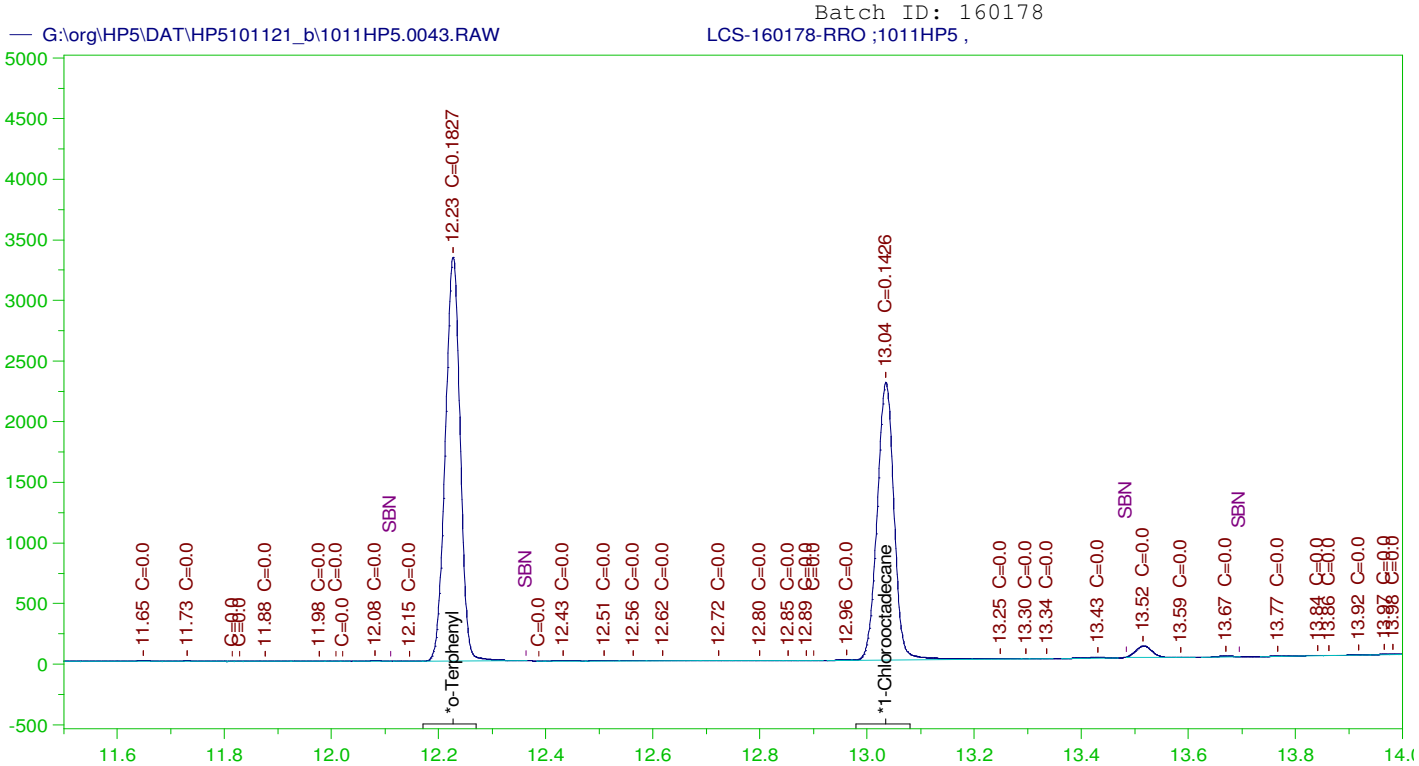
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

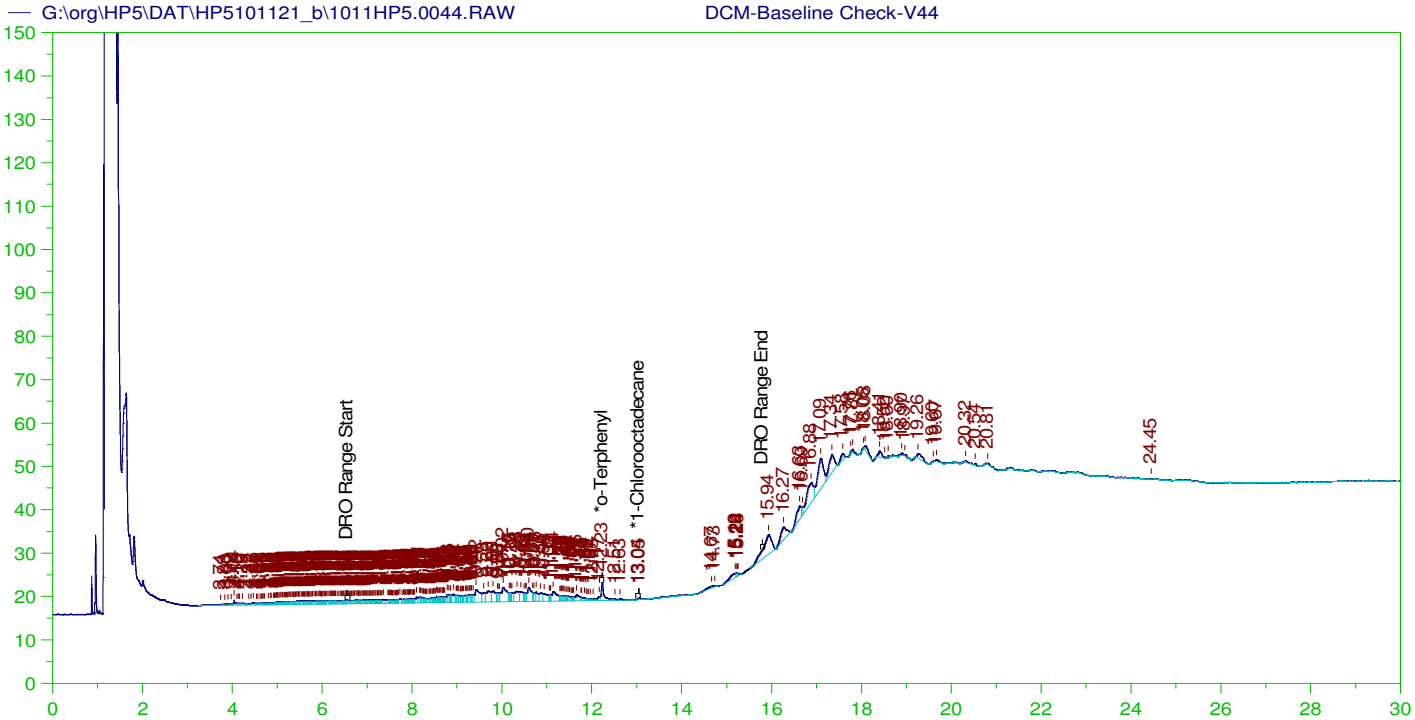
Sample Name: LCS-160178-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0043.RAW
Date & Time Acquired: 10/12/2021 5:00:36 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | .2 | .183 | 91.37 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .143 | 71.29 | - |

DRO Area:1212925 DRO Amount: 4.249554E-02
TEH Area:2753507 TEH Amount: 9.647073E-02

G:\org\HP5\dat\HP5101121_b\Review\043_LCS-160178-RRO_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V44
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0044.RAW
Date & Time Acquired: 10/12/2021 5:43:44 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

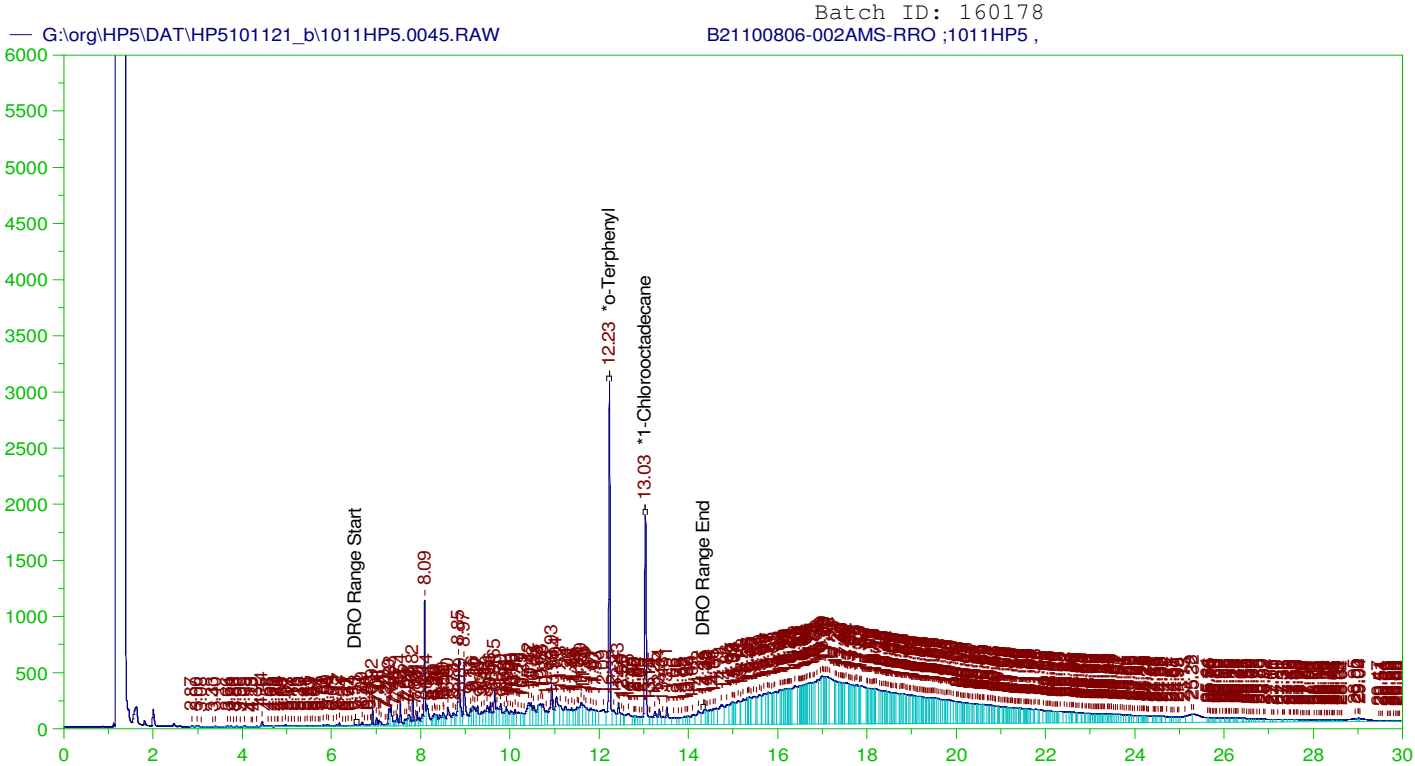
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | .5 | .25 | - |
| *1-Chlorooctadecane | 13.041 | 200. | .023 | .01 | - |

DRO Area:489548.4 DRO Amount: 16.6189
TEH Area:930106.1 TEH Amount: 31.57469

G:\org\HP5\dat\HP5101121_b\Review\044_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

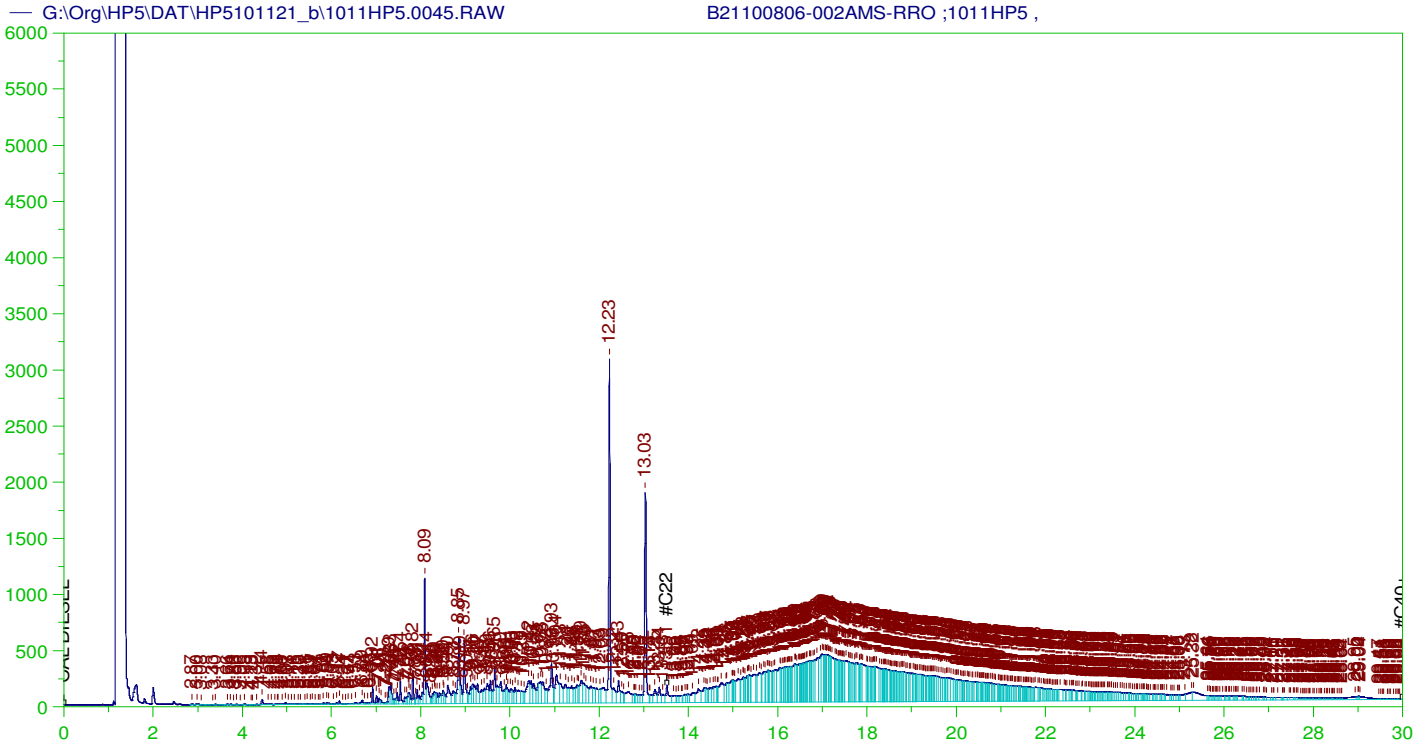
Sample Name: B21100806-002AMS-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0045.RAW
Date & Time Acquired: 10/12/2021 6:26:58 PM
Method File: G:\Org\HP5\Methods\D3_OIL-101143-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .392 | .37 | 94.27 | - |
| *1-Chlorooctadecane | 13.032 | .392 | .249 | 63.41 | - |

DRO Area:5.133524E+07 DRO Amount: 3.526589
TEH Area:1.829917E+08 TEH Amount: 12.57102

G:\org\HP5\dat\HP5101121_b\Review\045_B21100806-002AMS-RRO_D3_OIL-101143-AJ-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002AMS-RRO ;1011HP5 ,
Raw File: G:\Org\HP5\DAT\HP5101121_b\1011HP5.0045.RAW
Date & Time Acquired: 10/12/2021 6:26:58 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP-PARENT.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ (TEH(Oil Range) Range Organics Calculations: 28542.41
Rt range for ~~Residual~~ (TEH(Oil Range)Range Organics: 13.46 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ (TEH(Oil Range)Area:1.354273E+08 ~~RRO~~ (TEH(Oil Range) AMOUNT: 9.30348

AMN 10/19/2021

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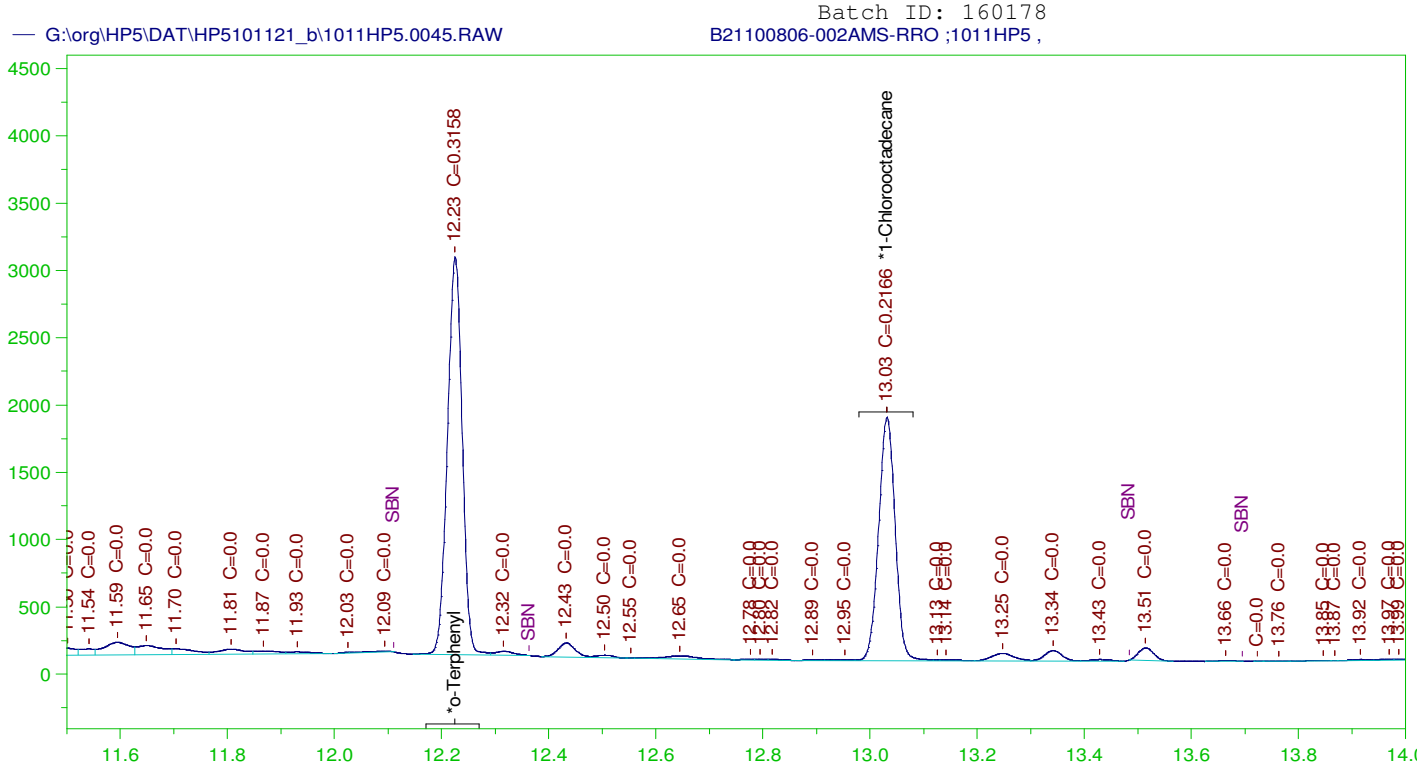
Batch ID: 160178



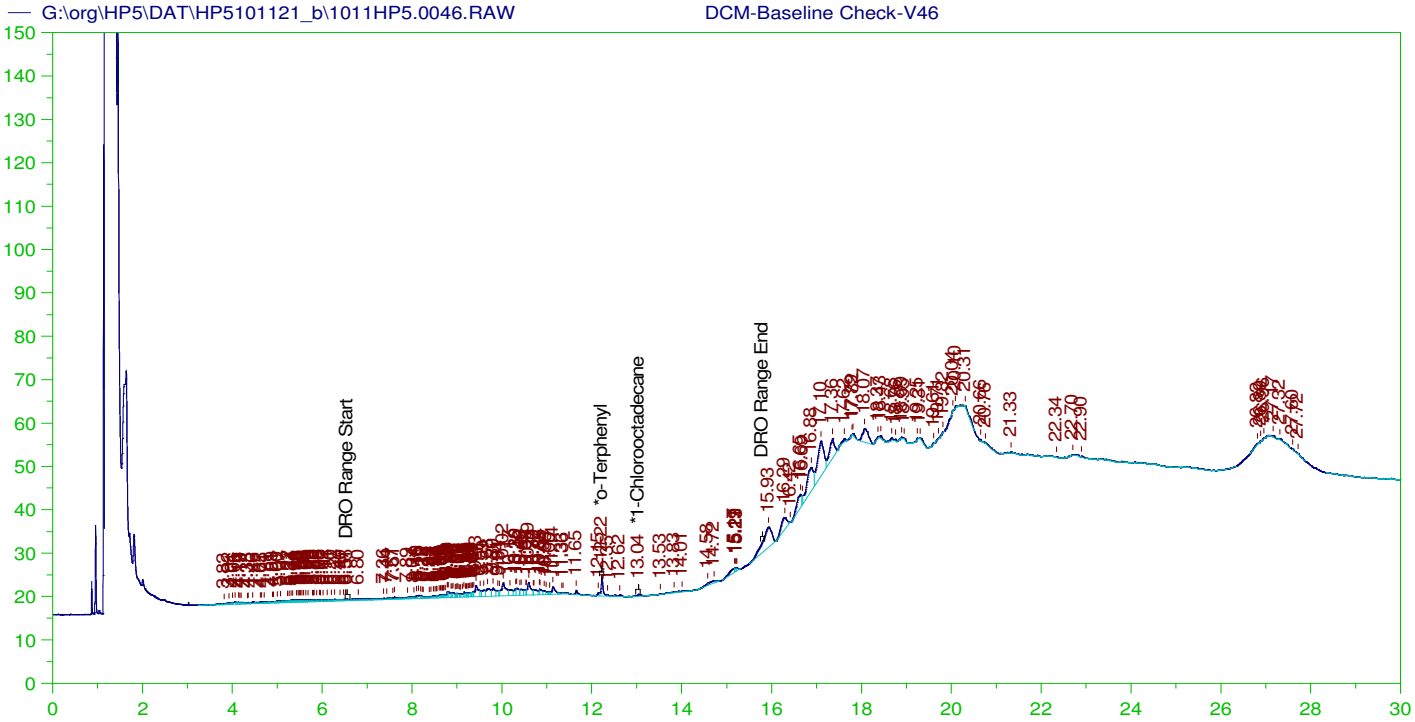

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002AMS-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0045.RAW
Date & Time Acquired: 10/12/2021 6:26:58 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .392 | .316 | 80.52 | - |
| *1-Chlorooctadecane | 13.032 | .392 | .217 | 55.23 | - |

DRO Area:2.270019E+07 DRO Amount: 1.55944
TEH Area:2.444042E+07 TEH Amount: 1.678989




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

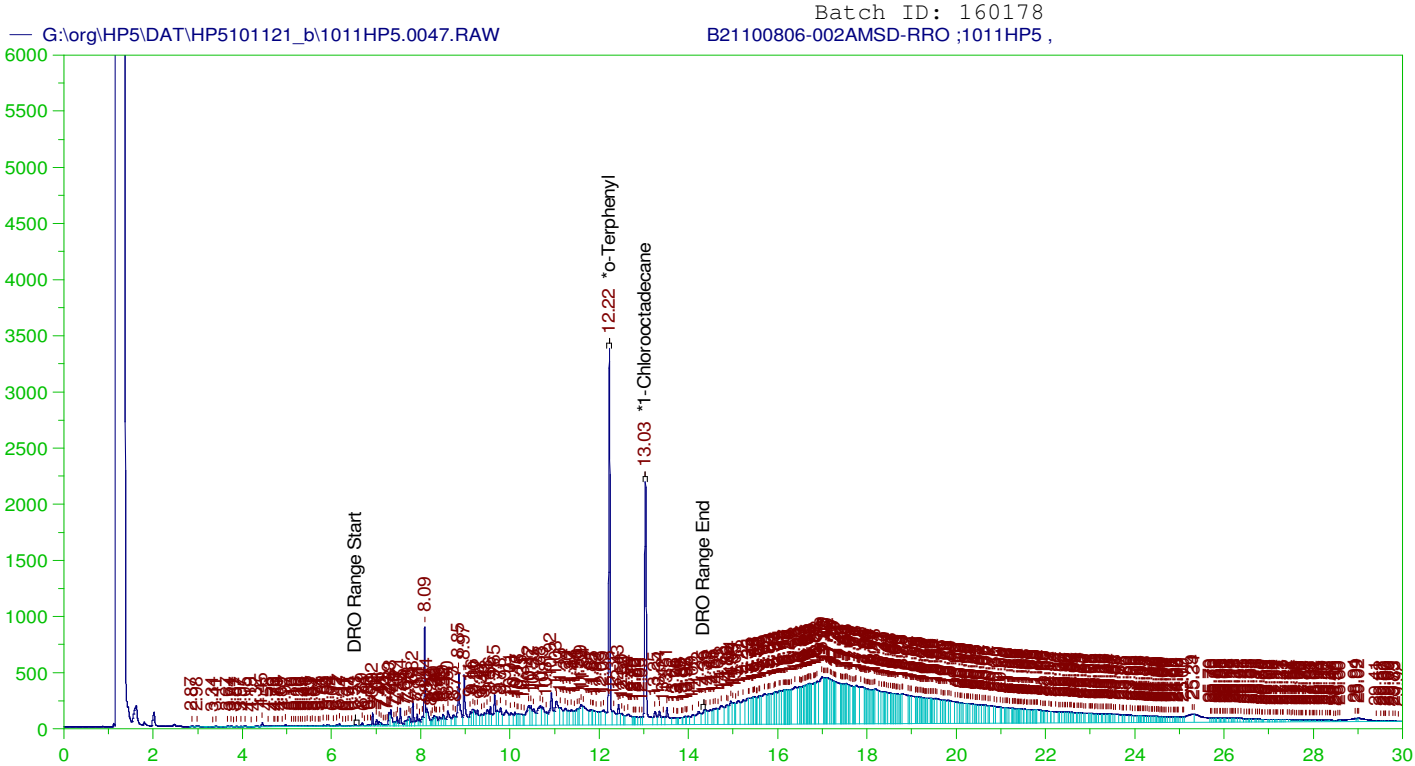
Sample Name: DCM-Baseline Check-V46
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0046.RAW
Date & Time Acquired: 10/12/2021 7:10:10 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | 200. | .406 | .2 | - |
| *1-Chlorooctadecane | 13.041 | 200. | .072 | .04 | - |

DRO Area:268028.8 DRO Amount: 9.098881
TEH Area:722764.6 TEH Amount: 24.53598

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002AMSD-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0047.RAW
Date & Time Acquired: 10/12/2021 7:53:22 PM
Method File: G:\Org\HP5\Methods\D3_OIL-101143-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | .392 | .409 | 104.27 | - |
| *1-Chlorooctadecane | 13.033 | .392 | .308 | 78.5 | - |

DRO Area:4.530737E+07 DRO Amount: 3.112491
TEH Area:1.740856E+08 TEH Amount: 11.9592

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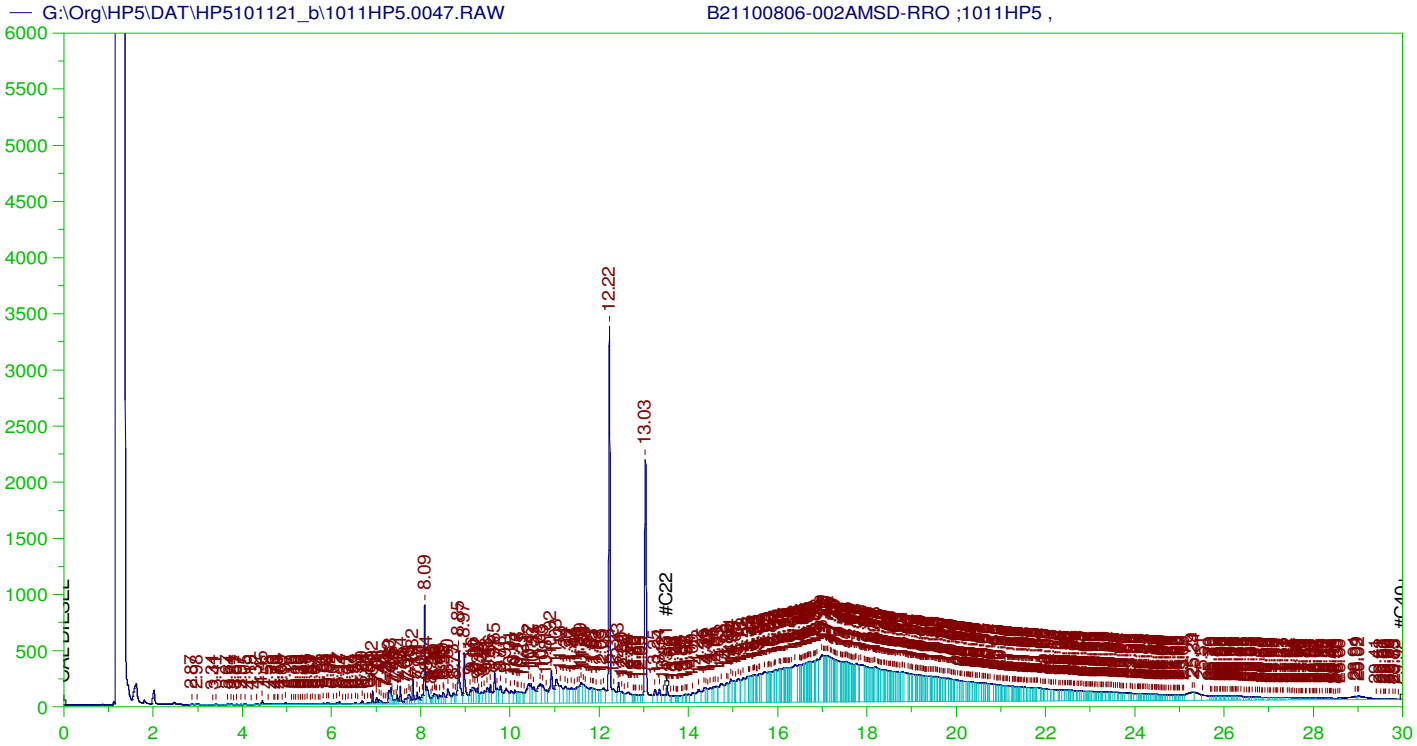


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002AMSD-RRO ;1011HP5 ,
Raw File: G:\Org\HP5\DAT\HP5101121_b\1011HP5.0047.RAW
Date & Time Acquired: 10/12/2021 7:53:22 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP-PARENT.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ (TEH(Oil Range) Range Organics Calculations: 28542.41
Rt range for ~~Residual~~ (TEH(Oil Range)Range Organics: 13.46 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ (TEH(Oil Range)Area:1.325923E+08 ~~RRO~~ (TEH(Oil Range)AMOUNT: 9.108723

AMN 10/19/2021

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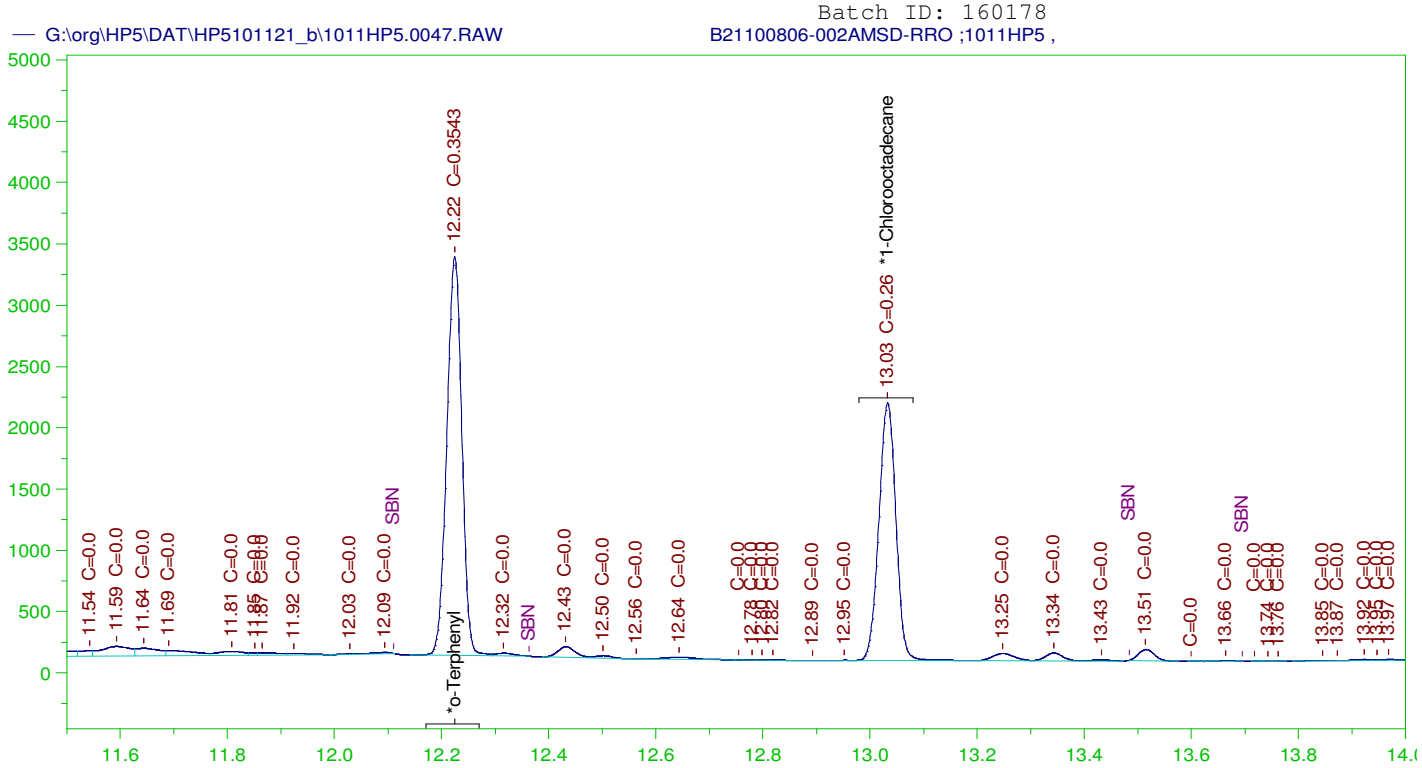
Batch ID: 160178



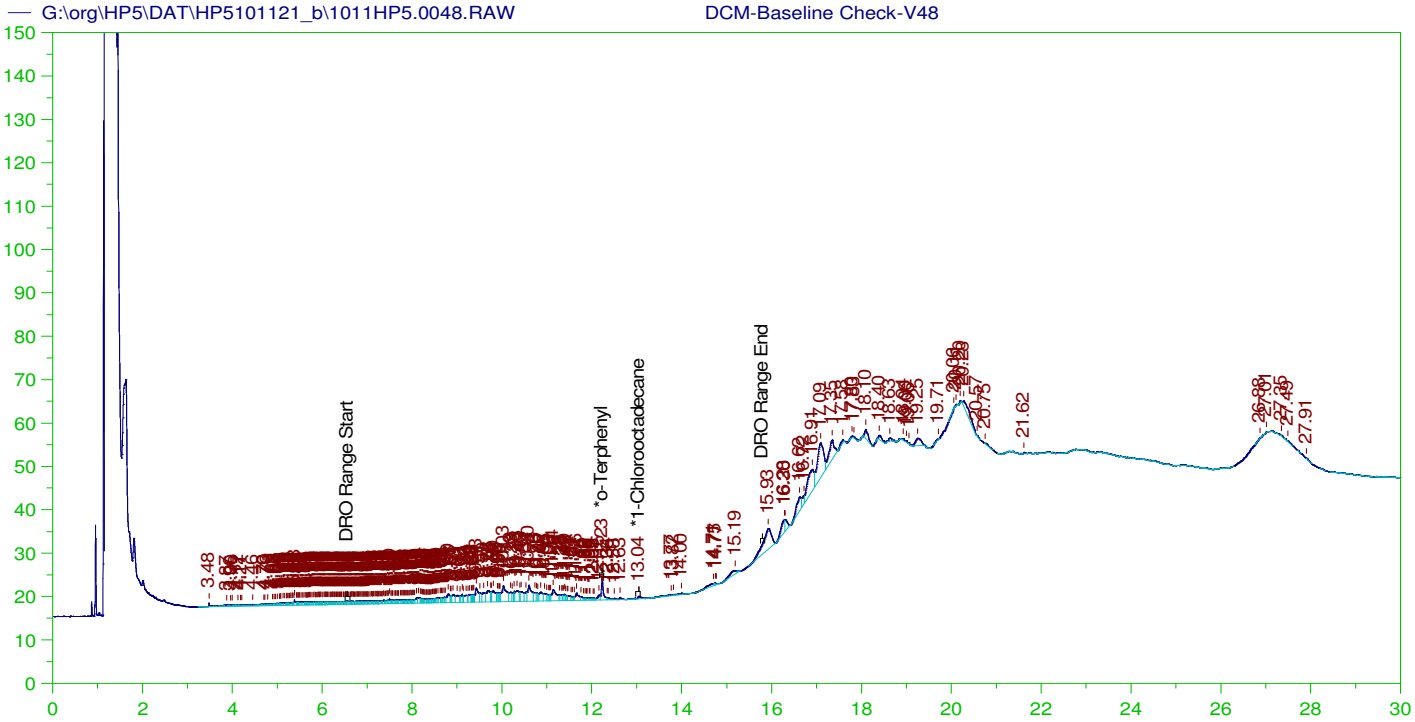

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002AMSD-RRO ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0047.RAW
Date & Time Acquired: 10/12/2021 7:53:22 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | .392 | .354 | 90.34 | - |
| *1-Chlorooctadecane | 13.033 | .392 | .26 | 66.29 | - |

DRO Area:1.846595E+07 DRO Amount: 1.26856
TEH Area:2.01283E+07 TEH Amount: 1.382759




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V48
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0048.RAW
Date & Time Acquired: 10/12/2021 8:36:32 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | 200. | .475 | .24 | - |
| *1-Chlorooctadecane | 13.044 | 200. | .079 | .04 | - |

DRO Area:485889.3 DRO Amount: 16.49468
TEH Area:968910.9 TEH Amount: 32.89201

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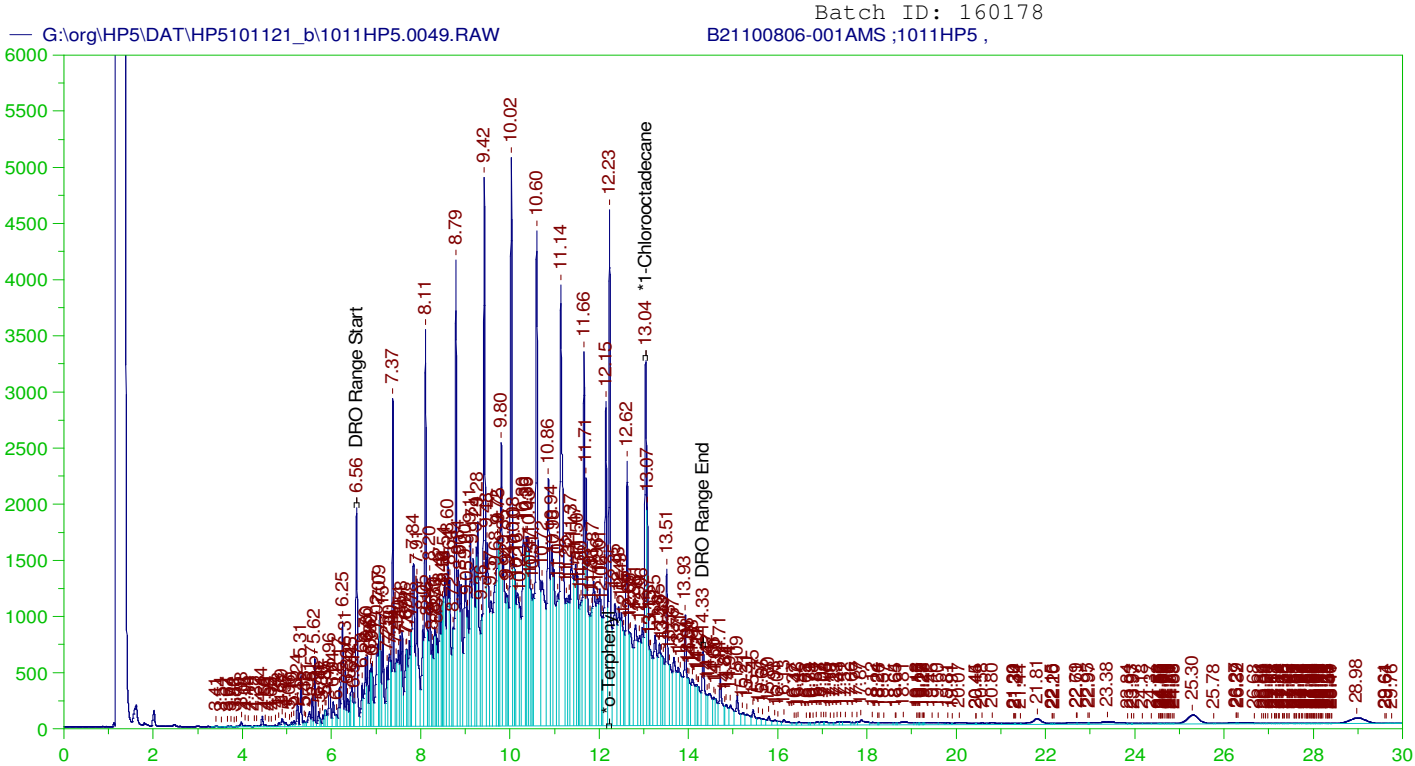
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001AMS ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0049.RAW
Date & Time Acquired: 10/12/2021 9:19:44 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .381 | .707 | 185.65 | - |
| *1-Chlorooctadecane | 13.037 | .381 | .49 | 128.67 | - |

DRO Area:4.815046E+08 DRO Amount: 31.13492
TEH Area:5.240819E+08 TEH Amount: 33.88804

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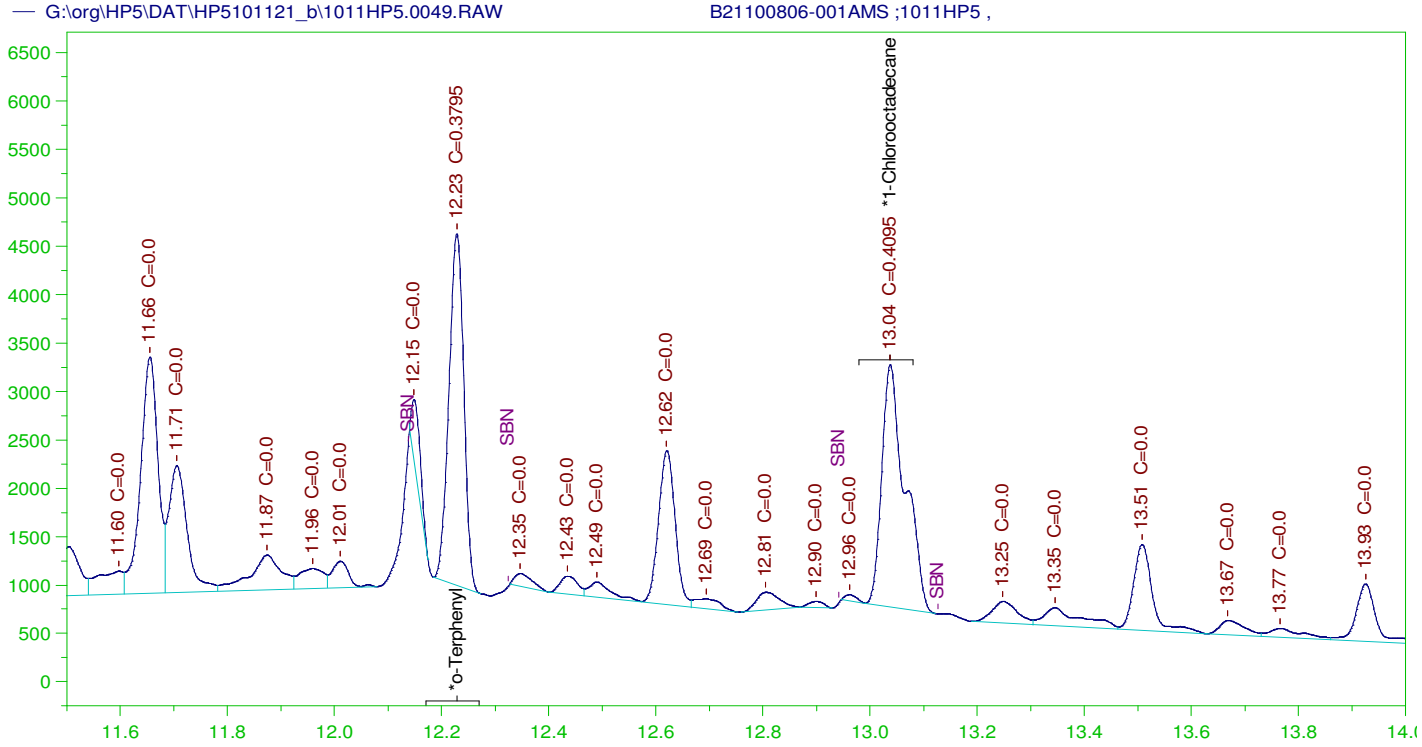
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001AMS ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0049.RAW
Date & Time Acquired: 10/12/2021 9:19:44 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .381 | .38 | 99.63 | - |
| *1-Chlorooctadecane | 13.037 | .381 | .409 | 107.49 | - |

DRO Area:2.317815E+08 DRO Amount: 14.98739
TEH Area:2.44508E+08 TEH Amount: 15.81031

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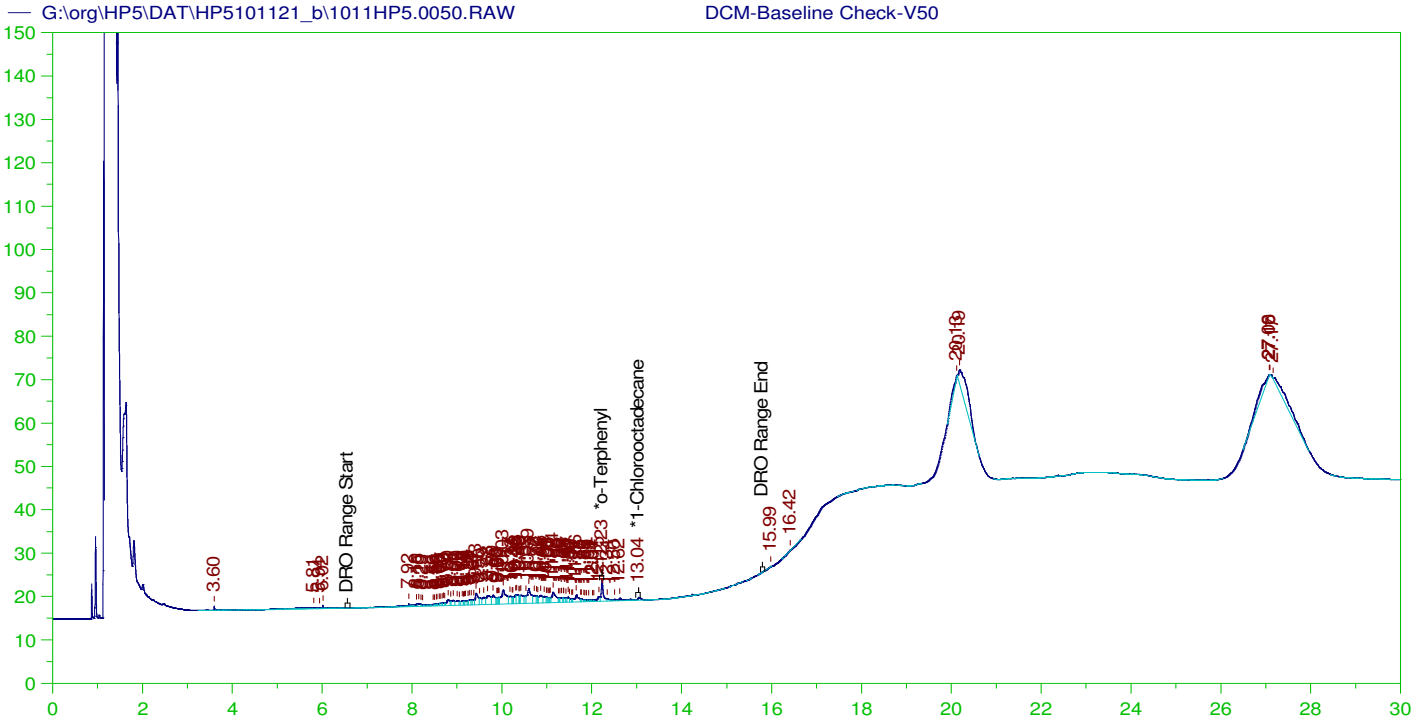


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V50
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0050.RAW
Date & Time Acquired: 10/12/2021 10:02:56 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | 200. | .465 | .23 | - |
| *1-Chlorooctadecane | 13.04 | 200. | .088 | .04 | - |

DRO Area:307133.7 DRO Amount: 10.42639
TEH Area:523790.1 TEH Amount: 17.78131

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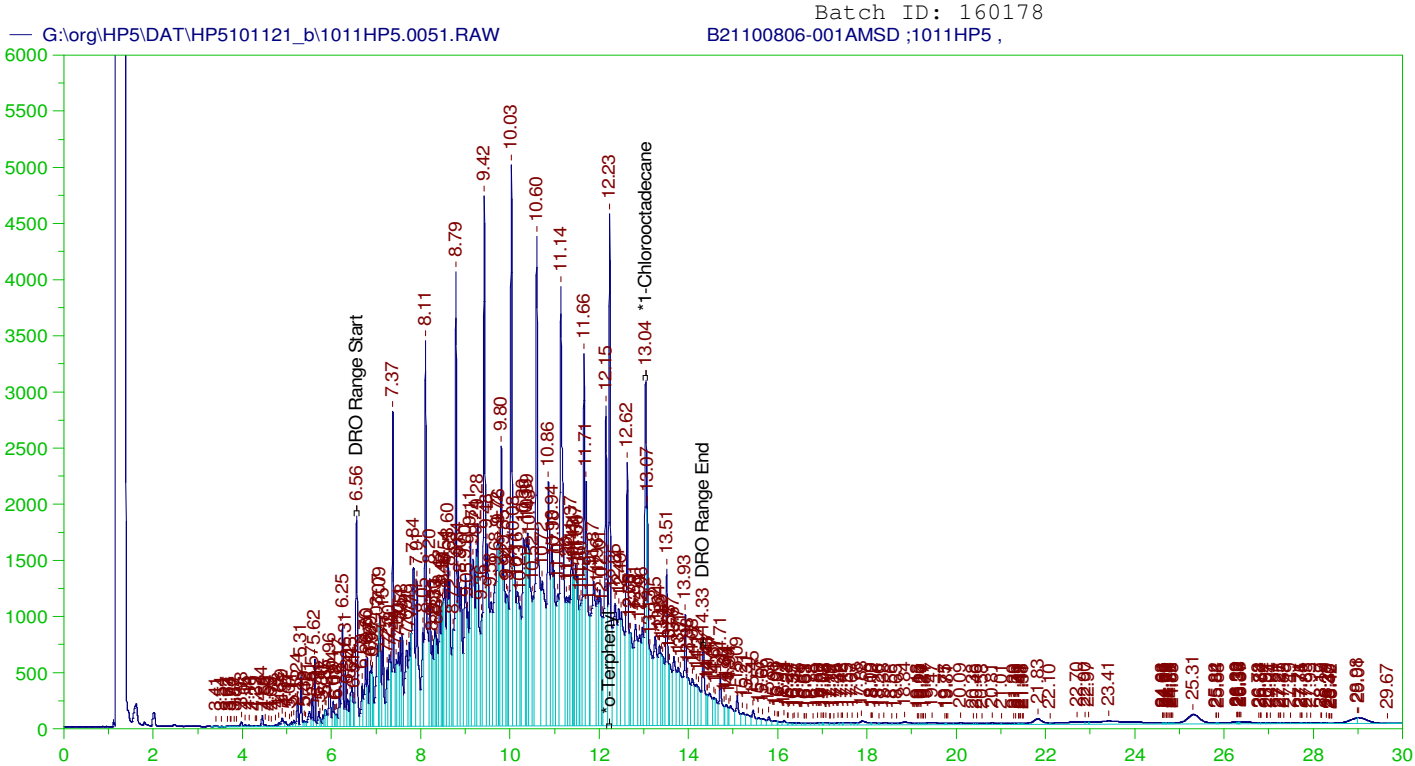
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

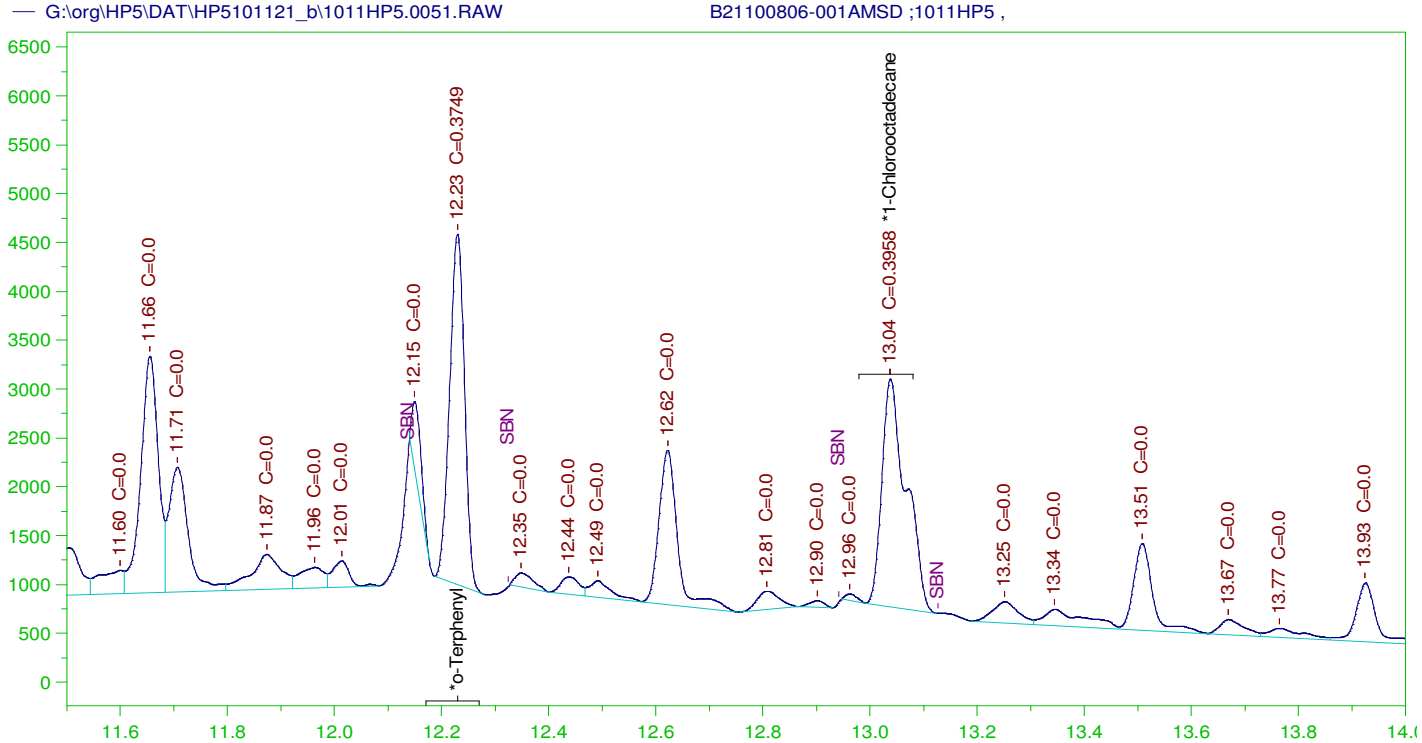
Sample Name: B21100806-001AMSD ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0051.RAW
Date & Time Acquired: 10/12/2021 10:46:05 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | .381 | .679 | 178.33 | - |
| *1-Chlorooctadecane | 13.038 | .381 | .472 | 123.79 | - |

DRO Area:4.798097E+08 DRO Amount: 31.02532
TEH Area:5.220179E+08 TEH Amount: 33.75457

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001AMSD ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0051.RAW
Date & Time Acquired: 10/12/2021 10:46:05 PM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | .381 | .375 | 98.41 | - |
| *1-Chlorooctadecane | 13.038 | .381 | .396 | 103.91 | - |

DRO Area:2.295477E+08 DRO Amount: 14.84295
TEH Area:2.423234E+08 TEH Amount: 15.66905

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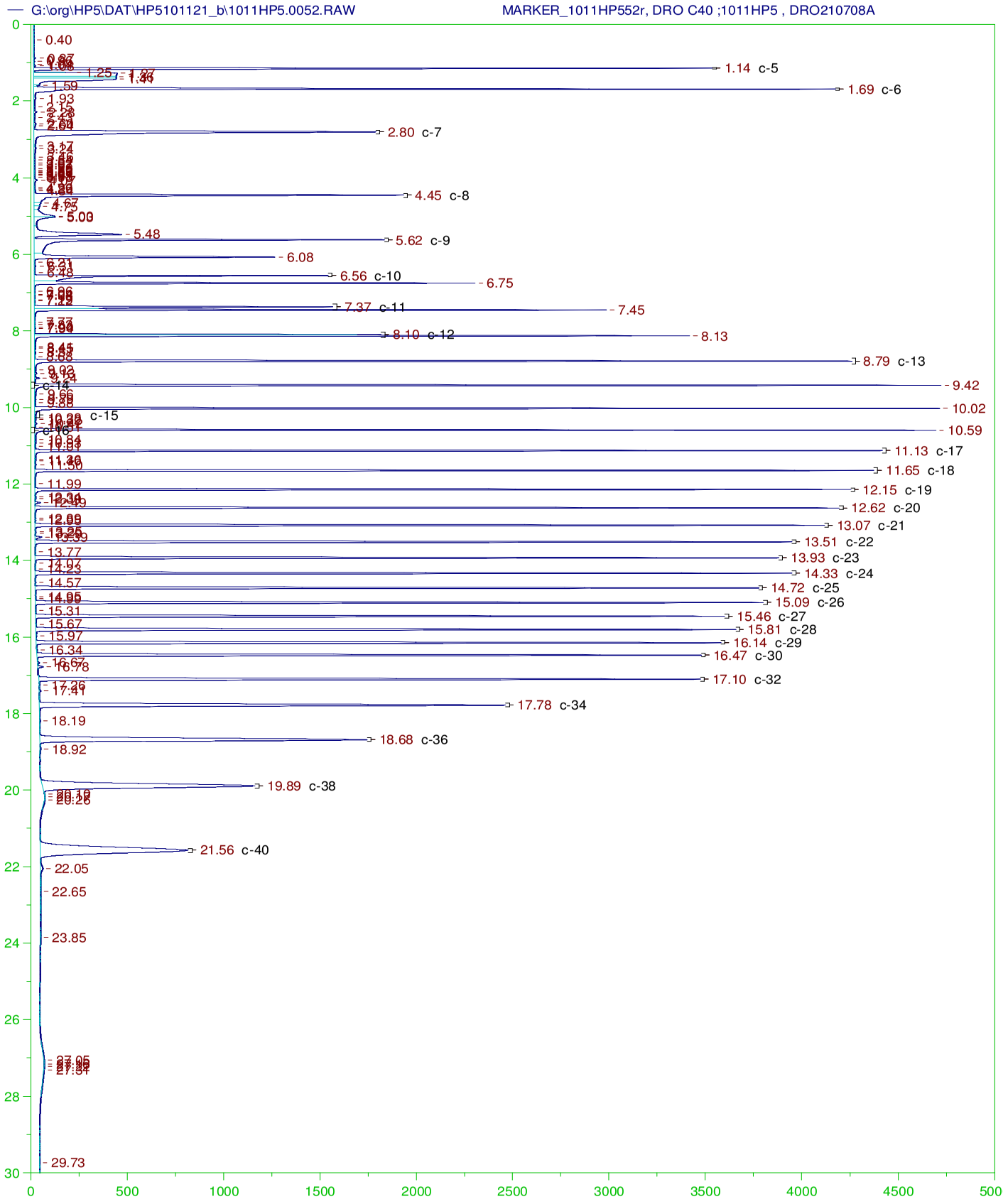
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1.69 c-6
2.80 c-7
4.45 c-8
5.48
5.62 c-9
6.08
6.56 c-10
6.75
7.37 c-11
7.45
8.10 c-12
8.13
8.79 c-13
9.42
10.02
10.59
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.09 c-26
15.46 c-27
15.81 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
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21.56 c-40
29.73
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1500
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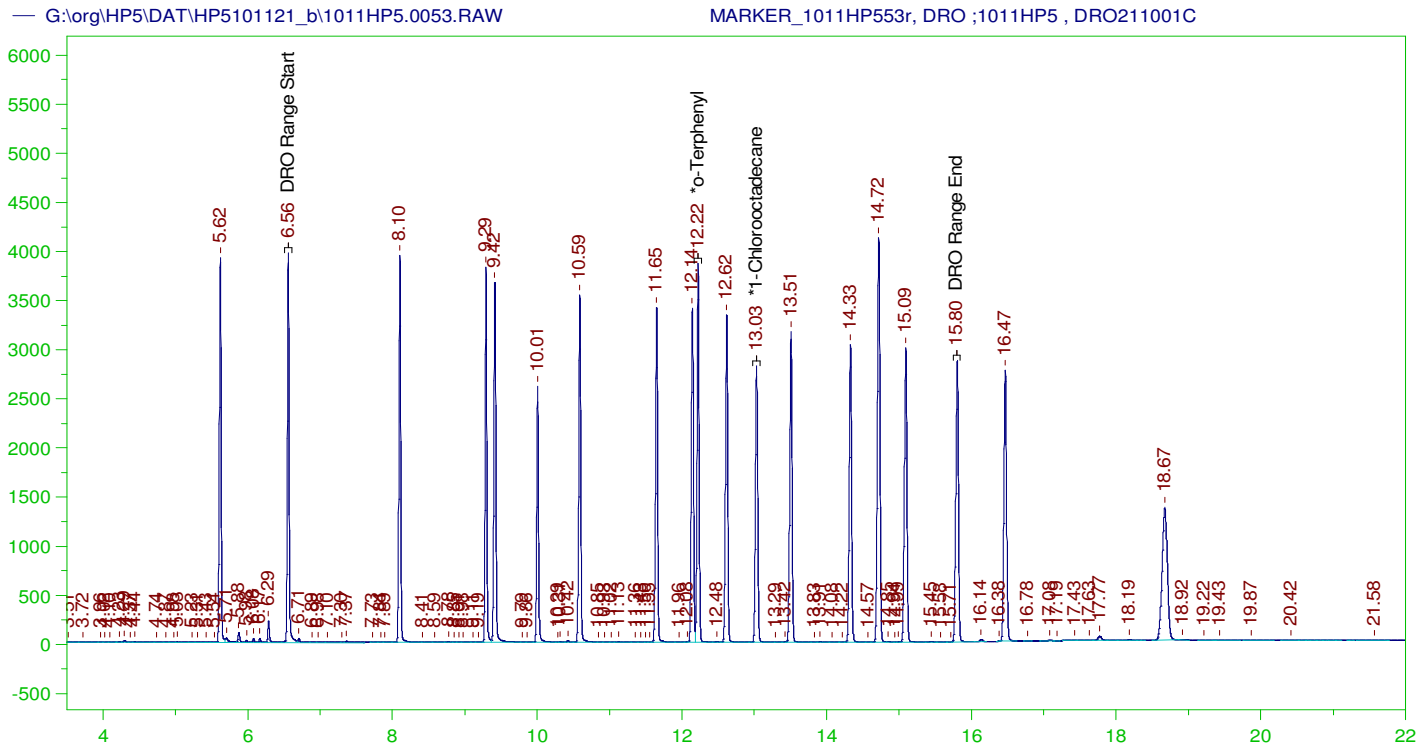


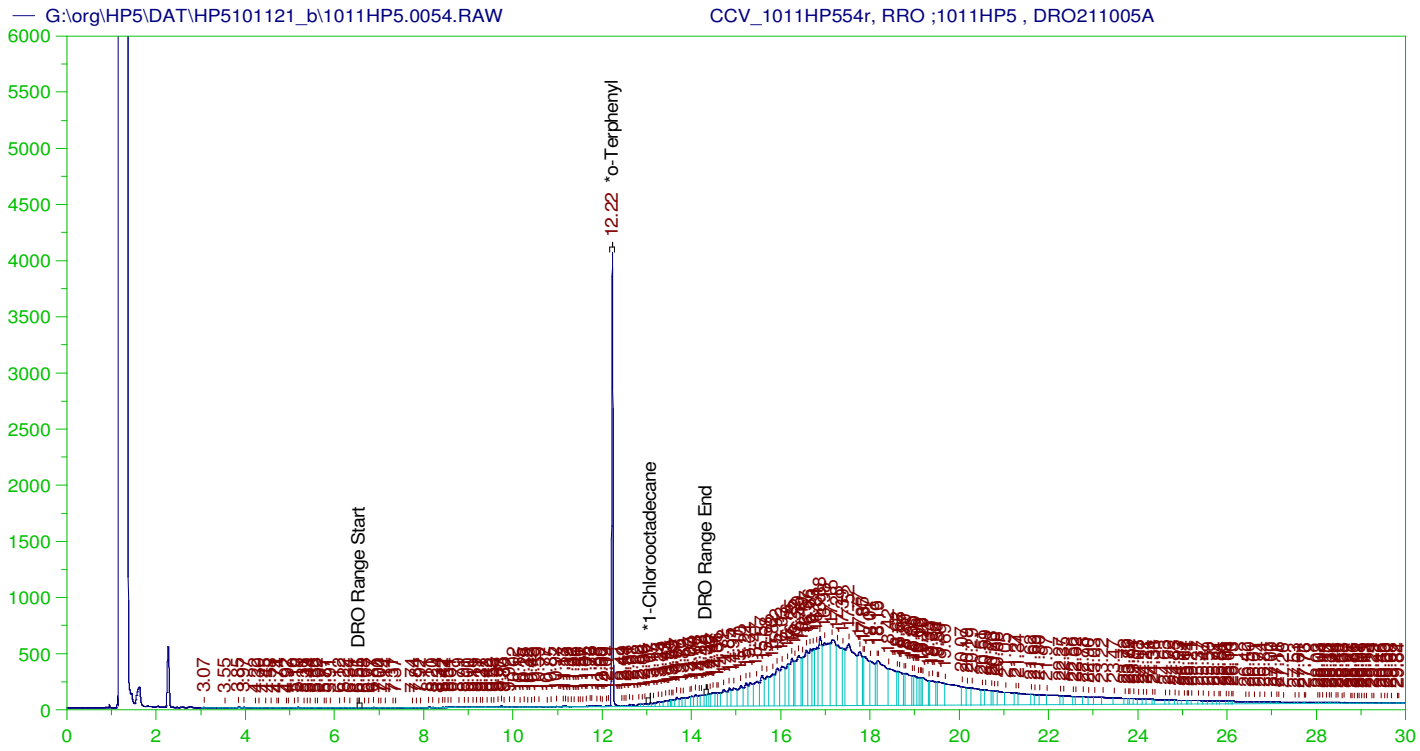

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0053.RAW
Date & Time Acquired: 10/13/2021 12:12:14 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 213.186 | 106.59 | - |
| *1-Chlorooctadecane | 13.031 | 200. | 172.732 | 86.37 | - |

DRO Area:9.775298E+07 DRO Amount: 3318.46
TEH Area:1.195781E+08 TEH Amount: 4059.366




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | - |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | - |

DRO Area:6639596 DRO Amount: 232.6221
TEH (Oil Range) Area:1.431985E+08 TEH (Oil Range) Amount: 5017.043

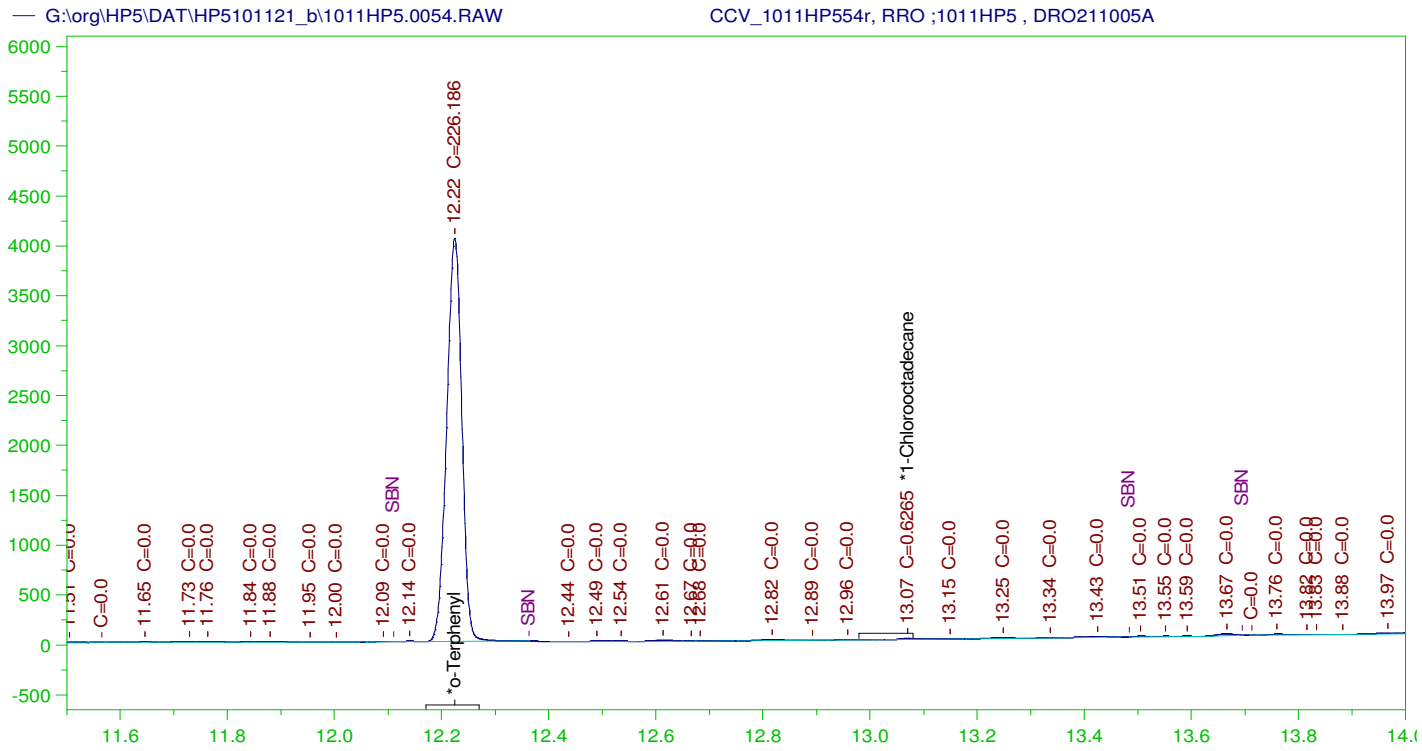
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5017.04 | 100.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | 85-115 |

AMN 10/19/2021

G:\org\HP5\dat\HP5101121_b\Review\054_CCV_1011HP554r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | - |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | - |

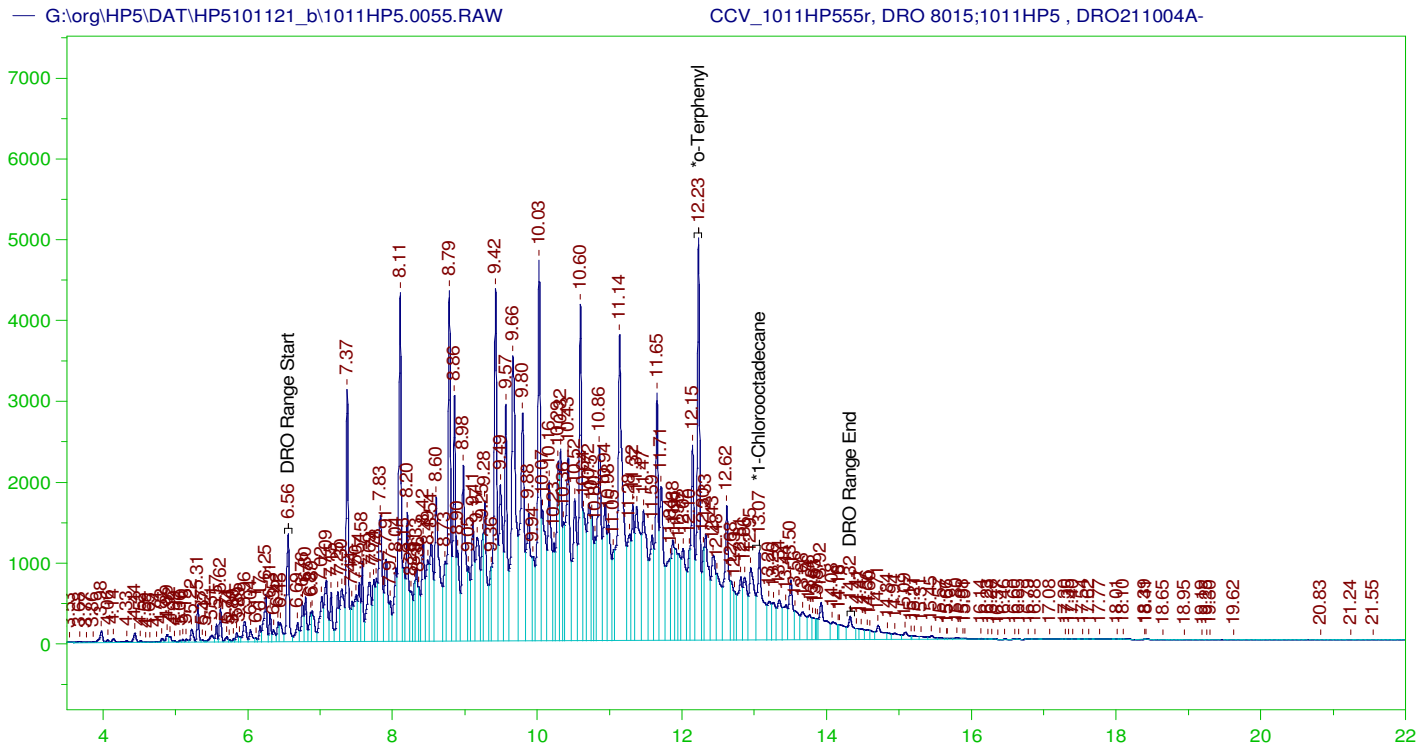
DRO Area:914620.3 DRO Amount: 32.04426
TEH Area:2179492 TEH Amount: 76.35976

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 76.36 | 1.53 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\054_CCV_1011HP554r_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | - |

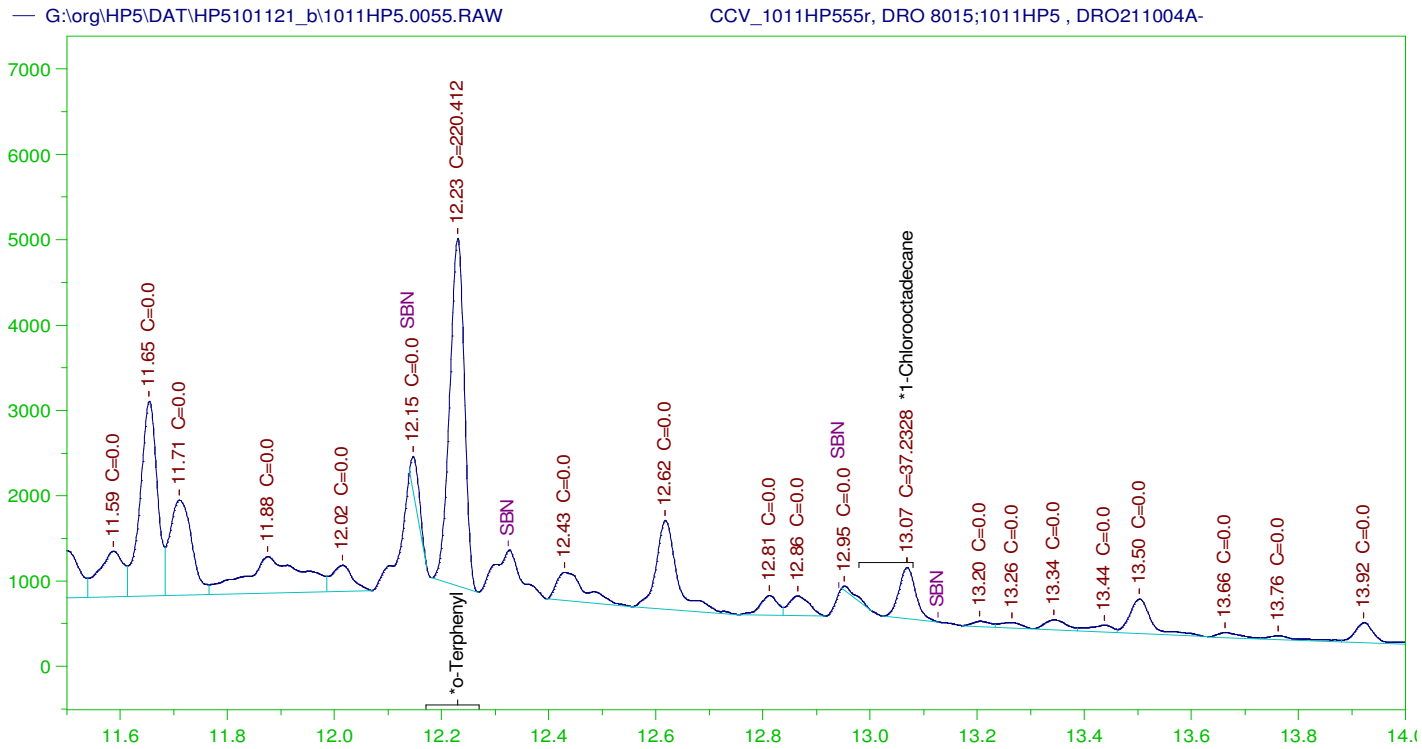
DRO Area:4.653271E+08 DRO Amount: 15796.65
TEH Area:4.819167E+08 TEH Amount: 16359.82

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16359.82 | 109.07 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\055_CCV_1011HP555r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | - |

DRO Area:2.582346E+08 DRO Amount: 8766.394
TEH Area:2.681562E+08 TEH Amount: 9103.206

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9103.21 | 60.69 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\055_CCV_1011HP555r_DS_8015-HS-L#.xls

Write Sequence | Insert Entries(Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.09r | DCM-Baseline Check-V09 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.10r | MARKER_1011HP510r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.11r | MARKER_1011HP511r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.12r | CCV_1011HP512r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.13r | CCV_1011HP513r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.15r | LCS-160178 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Peak width adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.16r | MB-160178 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.17r | B2100756-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1045 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.18r | B2100806-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.19r | B2100806-002A ;1011HP5 , $HC-8015-DRO-W, NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1055 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.20r | B2100806-002A ;1011HP5 , $HC-8015-DRO-W, NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1050 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.21r | DCM-Baseline Check-V21 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.22r | B2100806-004A ;1011HP5 , $HC-8015-DRO-W, NEEDS RR DUE TO POSSIBLE CARRY OVER | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1050 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.23r | MARKER_1011HP523r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.24r | MARKER_1011HP524r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.25r | CCV_1011HP525r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.26r | CCV_1011HP526r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.28r | B2100806-005A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101128-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1060 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Flip + at 2.62 Flip - at 2.75, set baseline at 24.46.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.30r | B2100806-006A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.31r | B2100806-007A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.32r | B2100806-004A ;1011HP5 , $HC-8015-DRO-W, RR | G:\Org\HP5\Methods\DR_8015-101132-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-101132-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Set baseline at 23.83.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.33r | B2100806-002A ;1011HP5 , $HC-8015-DRO-W, RR | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Peak Width adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.34r | DCM-Baseline Check-V34 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.35r | DCM-Baseline Check-V35 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.36r | B2100806-003A ;1011HP5 , $HC-8015-DRO-W, RR | G:\Org\HP5\Methods\D3_8015-101136-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Peak Width adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.37r | DCM-Baseline Check-V37 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.38r | MARKER_1011HP538r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.39r | MARKER_1011HP539r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.40r | CCV_1011HP540r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.41r | CCV_1011HP541r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.42r | DCM-Baseline Check-V42 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.43r | LCS-160178-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-101143-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Peak width was adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.44r | DCM-Baseline Check-V44 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.45r | B2100806-002AMS-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Peak width was adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.46r | DCM-Baseline Check-V46 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.47r | B2100806-002AMSD-RRO ;1011HP5 , | G:\Org\HP5\Methods\D3_OIL-S-101145-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Peak width was adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.48r | DCM-Baseline Check-V48 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.49r | B2100806-001AMS ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.50r | DCM-Baseline Check-V50 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.51r | B2100806-001AMSD ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.19 15:44:10 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*19-Oct-21*

**Run ID** GCFID-HP4-B_211014A

**Run Start Date:** 10/14/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015 CAL information is in Index GCFID-HP4-B_201204B.DRO-8015-Oil CAL information is in Index GCFID-HP4-B_211006B.

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER | 3/5/2028 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV | 9/30/2024 |
| DRO211008B | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV | 4/30/2023 |
| DRO211012I | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772396 | MARKER_1014 | HC-8015-DRO- | SAMP | | 10/14/2021 10:3 | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.876366 | | 0 | 0 | 0 | 0.0358 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.655901 | | 0 | 0 | 0 | 0.0782 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2387584 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 119% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.876366 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772397 | CCV_1014HP40 | HC-8015-DRO- | CCV | | 10/14/2021 11:1 | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.010203 | | 5 | 0 | 0 | 0.0531 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2306572 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 115% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772398 | CCV_1014HP40 | HC-8015-DRO- | CCV | | 10/14/2021 12:5 | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 18.37613 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 123% | 80 | 120 | 0% | S |
| Total Extractable Hydrocarbons | A | mg/L | | 19.04365 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 127% | 80 | 120 | 0% | S |
| o-Terphenyl | S | mg/L | | 0.2550289 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 128% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772399 | CCV_1014HP40 | HC-8015-DRO- | CCV | | 10/14/2021 1:38: | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.2075 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 108% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.8227 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 112% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2237186 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 112% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772400 | CCV_1014HP40 | HC-8015-DRO- | CCV | | 10/14/2021 2:23: | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.21665 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 108% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.81135 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 112% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2237163 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 112% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772401 | LCS-160178 | HC-8015-DRO- | LCS-DOD | | 10/14/2021 3:53: | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 14.31014 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 95% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 15.233 | | 15 | 0 | 0 | 0.0782 | 0.3 | 0 | 102% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1951938 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772402 | MB-160178 | HC-8015-DRO- | MBLK | | 10/14/2021 4:38: | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772402 | MB-160178 | HC-8015-DRO- | MBLK | | 10/14/2021 4:38: | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0358 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0531 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0782 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1855948 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 93% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772403 | B21100806-005 | HC-8015-DRO- | SAMP | | 10/14/2021 5:24: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0337594 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0500733 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0737426 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1919783 | | 0.1886 | 0 | 0 | 0.0005007 | 0.001886 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772404 | B21100806-004 | HC-8015-DRO- | SAMP | | 10/14/2021 6:09: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0340816 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0505512 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0744464 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1050797 | | 0.1904 | 0 | 0 | 0.0005055 | 0.001904 | 0 | 55% | 56 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772405 | B21100806-002 | HC-8015-DRO- | SAMP | | 10/14/2021 6:55: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0.7509074 | | 0 | 0 | 0 | 0.0339384 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0503388 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0.7908874 | | 0 | 0 | 0 | 0.0741336 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1269709 | | 0.1896 | 0 | 0 | 0.0005034 | 0.001896 | 0 | 67% | 56 | 125 | 0% | |
| TEH (SGT-Oil Range) | X | mg/L | | 0 | | 0 | 0 | 0 | 0.0503388 | 0.2844 | 0 | 0% | 0 | 0 | 0% | U |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772406 | B21100806-001 | HC-8015-DRO- | SAMP | | 10/14/2021 7:40: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0339384 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0503388 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0741336 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1548622 | | 0.1896 | 0 | 0 | 0.0005034 | 0.001896 | 0 | 82% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772407 | B21100806-003 | HC-8015-DRO- | SAMP | | 10/14/2021 8:26: | 1 | 160178 | 10/10/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0340816 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0505512 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0744464 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1404144 | | 0.1904 | 0 | 0 | 0.0005055 | 0.001904 | 0 | 74% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772408 | MARKER_1014 | HC-8015-DRO- | SAMP | | 10/14/2021 9:56: | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.715424 | | 0 | 0 | 0 | 0.0358 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.392015 | | 0 | 0 | 0 | 0.0782 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2246892 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 112% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.715424 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772409 | CCV_1014HP42 | HC-8015-DRO- | CCV | | 10/14/2021 10:4 | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.04265 | | 5 | 0 | 0 | 0.0531 | 0.3 | 0 | 101% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2196772 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772410 | CCV_1014HP42 | HC-8015-DRO- | CCV | | 10/14/2021 11:2 | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772410 | CCV_1014HP42 | HC-8015-DRO- | CCV | | 10/14/2021 11:2 | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.56239 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 104% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.16926 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 108% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.215072 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 108% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772411 | B21100806-001 | HC-8015-DRO- | MS-DOD | | 10/15/2021 12:5 | 1 | 160178 | 10/10/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772412 | B21100806-001 | HC-8015-DRO- | MSD-DOD | | 10/15/2021 1:43: | 1 | 160178 | 10/10/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 32.79511 | | 28.5 | 0 | 30.54566 | 0.06802 | 0.57 | 0 | 115% | 36 | 132 | 7% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 34.89916 | | 28.5 | 0 | 32.53717 | 0.14858 | 0.57 | 0 | 122% | 60 | 132 | 7% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.4062724 | | 0.38 | 0 | 0 | 0.0010089 | 0.0038 | 0 | 107% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772413 | LCS-160178-RR | HC-8015-DRO- | LCS-DOD | | 10/15/2021 2:29: | 1 | 160178 | 10/9/2021 1 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 4.867586 | | 5 | 0 | 0 | 0.0531 | 0.3 | 0 | 97% | 41 | 113 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1964277 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772414 | B21100806-002 | HC-8015-DRO- | MS-DOD | | 10/15/2021 3:59: | 1 | 160178 | 10/10/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 9.82421684 | | 9.8 | 0 | 0 | 0.104076 | 0.588 | 0 | 100% | 41 | 113 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.3437263 | | 0.392 | 0 | 0 | 0.0010408 | 0.00392 | 0 | 88% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772415 | B21100806-002 | HC-8015-DRO- | MSD-DOD | | 10/15/2021 5:30: | 1 | 160178 | 10/10/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 10.472271 | | 9.8 | 0 | 9.8242168 | 0.104076 | 0.588 | 0 | 107% | 41 | 113 | 6% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.4186282 | | 0.392 | 0 | 0 | 0.0010408 | 0.00392 | 0 | 107% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772416 | MARKER_1014 | HC-8015-DRO- | SAMP | | 10/15/2021 7:00: | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.619185 | | 0 | 0 | 0 | 0.0358 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.294062 | | 0 | 0 | 0 | 0.0782 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2194435 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 110% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.619185 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772417 | CCV_1014HP43 | HC-8015-DRO- | CCV | | 10/15/2021 7:45: | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.051591 | | 5 | 0 | 0 | 0.0531 | 0.3 | 0 | 101% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2199892 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772418 | CCV_1014HP43 | HC-8015-DRO- | CCV | | 10/15/2021 8:30: | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.43972 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 103% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.00121 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 107% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.213044 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14774086 | MARKER_1014 | HC-8015-DRO- | SAMP | | 10/15/2021 12:1 | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.492034 | | 0 | 0 | 0 | 0.0358 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.098781 | | 0 | 0 | 0 | 0.0782 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2084831 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 104% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14774086 | MARKER_1014 | HC-8015-DRO- | SAMP | | 10/15/2021 12:1 | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.492034 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14774087 | CCV_1014HP43 | HC-8015-DRO- | CCV | | 10/15/2021 1:02: | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.82565 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.44653 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 110% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.217123 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 109% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14774088 | B21100806-001 | HC-8015-DRO- | MS-DOD | | 10/15/2021 2:32: | 1 | 160178 | 10/10/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 30.54566 | | 28.5 | 0 | 0 | 0.06802 | 0.57 | 0 | 107% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 32.53717 | | 28.5 | 0 | 0 | 0.14858 | 0.57 | 0 | 114% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.384524 | | 0.38 | 0 | 0 | 0.0010089 | 0.0038 | 0 | 101% | 56 | 125 | 0% | |

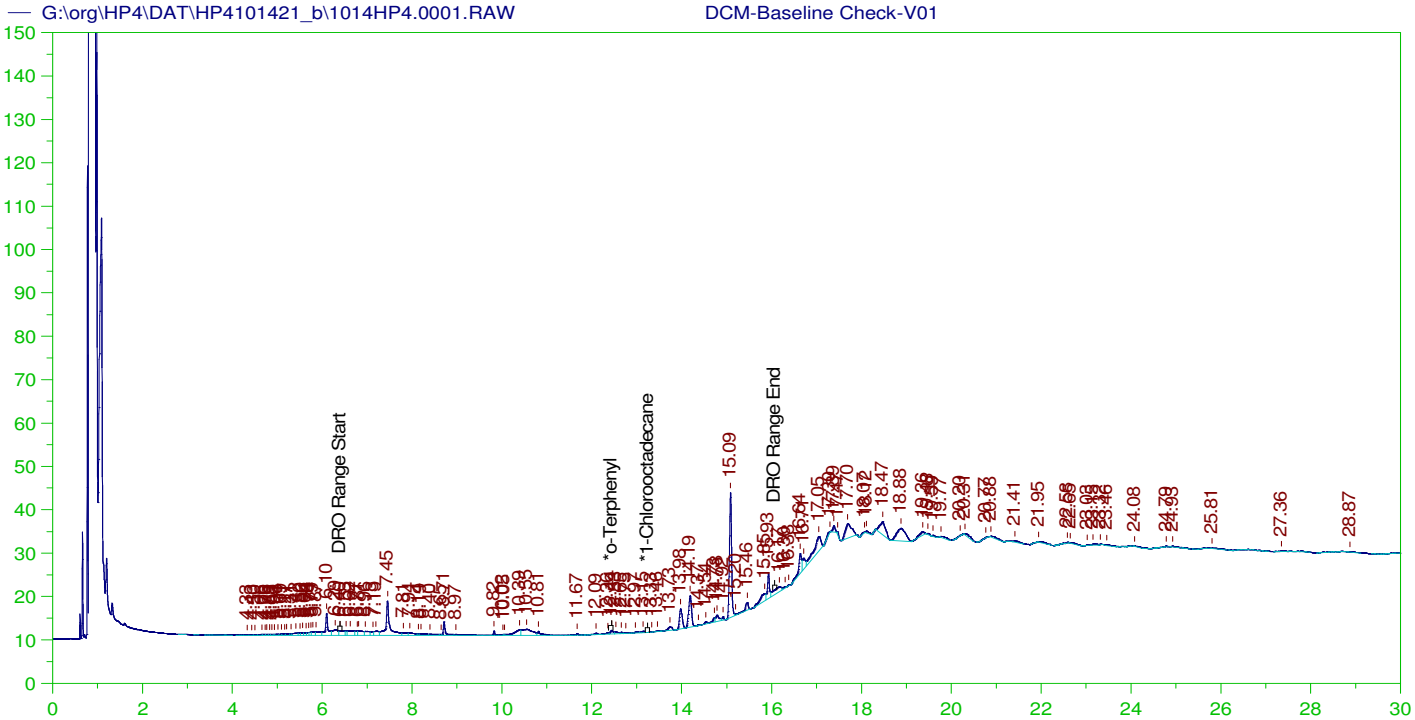
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14774089 | MARKER_1014 | HC-8015-DRO- | SAMP | | 10/15/2021 3:17: | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.630025 | | 0 | 0 | 0 | 0.0358 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.312777 | | 0 | 0 | 0 | 0.0782 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2200029 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 110% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.630025 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14774090 | CCV_1014HP44 | HC-8015-DRO- | CCV | | 10/15/2021 4:02: | 1 | R368709 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.02697 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 107% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.65597 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 111% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.220832 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Write Sequence | Insert Entries(Have the first cell for entries selecte | | | | | | |
|---|---|---|---|---|---|---|---|
| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.01r | DCM-Baseline Check-V01 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.02r | DCM-Baseline Check-V02 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.03r | MARKER_1014HP403r, DRO C40;1014HP4 , DRO210708A | g:\org\HP4\Methods\CSC211014.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.04r | MARKER_1014HP404r, DRO ;1014HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.05r | CCV_1014HP405r, RRO ;1014HP4 , DRO211005A | G:\Org\HP4\methods\DC_8015-OIL-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.06r | DCM-Baseline Check-V06 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.07r | CCV_1014HP407r, DRO ;1014HP4 , DRO211008B-FAILED HIGH | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.08r | CCV_1014HP408r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.09r | CCV_1014HP409r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.10r | DCM-Baseline Check-V10 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.11r | LCS-160178 ;1014HP4 , SGT | G:\Org\HP4\methods\D3_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.12r | MB-160178 ;1014HP4 , SGT | G:\Org\HP4\methods\DR_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.13r | B21100806-005A ;1014HP4 , $HC-8015-DRO-W, SGT | G:\Org\HP4\methods\DR_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1060 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.14r | B21100806-004A ;1014HP4 , $HC-8015-DRO-W, SGT | G:\Org\HP4\methods\DR_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.15r | B21100806-002A ;1014HP4 , $HC-8015-DRO-W, SGT | G:\Org\HP4\methods\DR_8015-101415-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-101415-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.16r | B21100806-001A ;1014HP4 , $HC-8015-DRO-W, SGT | G:\Org\HP4\methods\DR_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.17r | B21100806-003A ;1014HP4 , $HC-8015-DRO-W, SGT | G:\Org\HP4\methods\DR_8015-101417-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-101417-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.18r | MARKER_1014HP418r, DRO C40;1014HP4 , DRO210708A | g:\org\HP4\Methods\CSC211014.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.19r | MARKER_1014HP419r, DRO ;1014HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.20r | CCV_1014HP420r, RRO ;1014HP4 , DRO211005A | G:\Org\HP4\methods\DC_8015-OIL-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.21r | CCV_1014HP421r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.22r | DCM-Baseline Check-V22 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.23r | B21100806-001AMS ;1014HP4 , SGT -Cap on instrument vial felt loose-rerunning | G:\Org\HP4\methods\D3_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.24r | B21100806-001AMSD ;1014HP4 , SGT | G:\Org\HP4\methods\D3_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.25r | LCS-160178-RRO ;1014HP4 , SGT | G:\Org\HP4\methods\D3_8015-OIL-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.26r | DCM-Baseline Check-V26 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.27r | B21100806-002AMS-RRO ;1014HP4 , SGT | G:\Org\HP4\methods\D3_8015-101427-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 510 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.28r | DCM-Baseline Check-V28 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.29r | B21100806-002AMSD-RRO ;1014HP4 , SGT | G:\Org\HP4\methods\D3_8015-101427-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 510 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.30r | MARKER_1014HP430r, DRO C40;1014HP4 , DRO210708A | g:\org\HP4\Methods\CSC211014.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.31r | MARKER_1014HP431r, DRO ;1014HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.32r | CCV_1014HP432r, RRO ;1014HP4 , DRO211005A | G:\Org\HP4\methods\DC_8015-OIL-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.33r | CCV_1014HP433r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.34r | DCM-Baseline Check-V34 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.36r | MARKER_1014HP436r, DRO ;1014HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.37r | CCV_1014HP437r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.38r | DCM-Baseline Check-V38 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.39r | B21100806-001AMS ;1014HP4 , RR-SGT | G:\Org\HP4\methods\D3_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 525 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.40r | MARKER_1014HP440r, DRO ;1014HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.41r | CCV_1014HP441r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

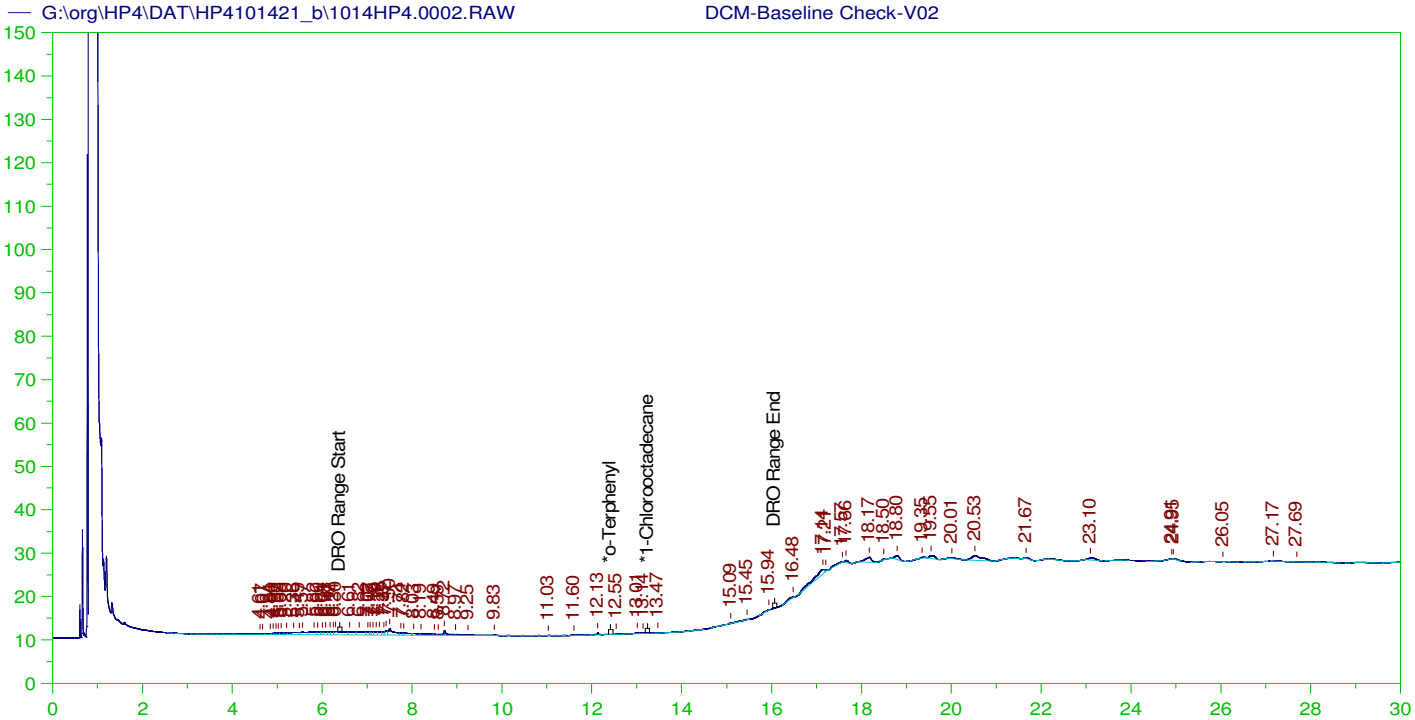
Sample Name: DCM-Baseline Check-V01
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0001.RAW
Date & Time Acquired: 10/14/2021 8:19:17 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.34 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.44 | 200. | .127 | .06 | - |
| *1-Chlorooctadecane | 29.916 | 200. | . | . | - |

DRO Area:419822.8 DRO Amount: 16.1287
TEH Area:748702.9 TEH Amount: 28.76358

G:\org\HP4\dat\HP4101421_b\Review\001_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

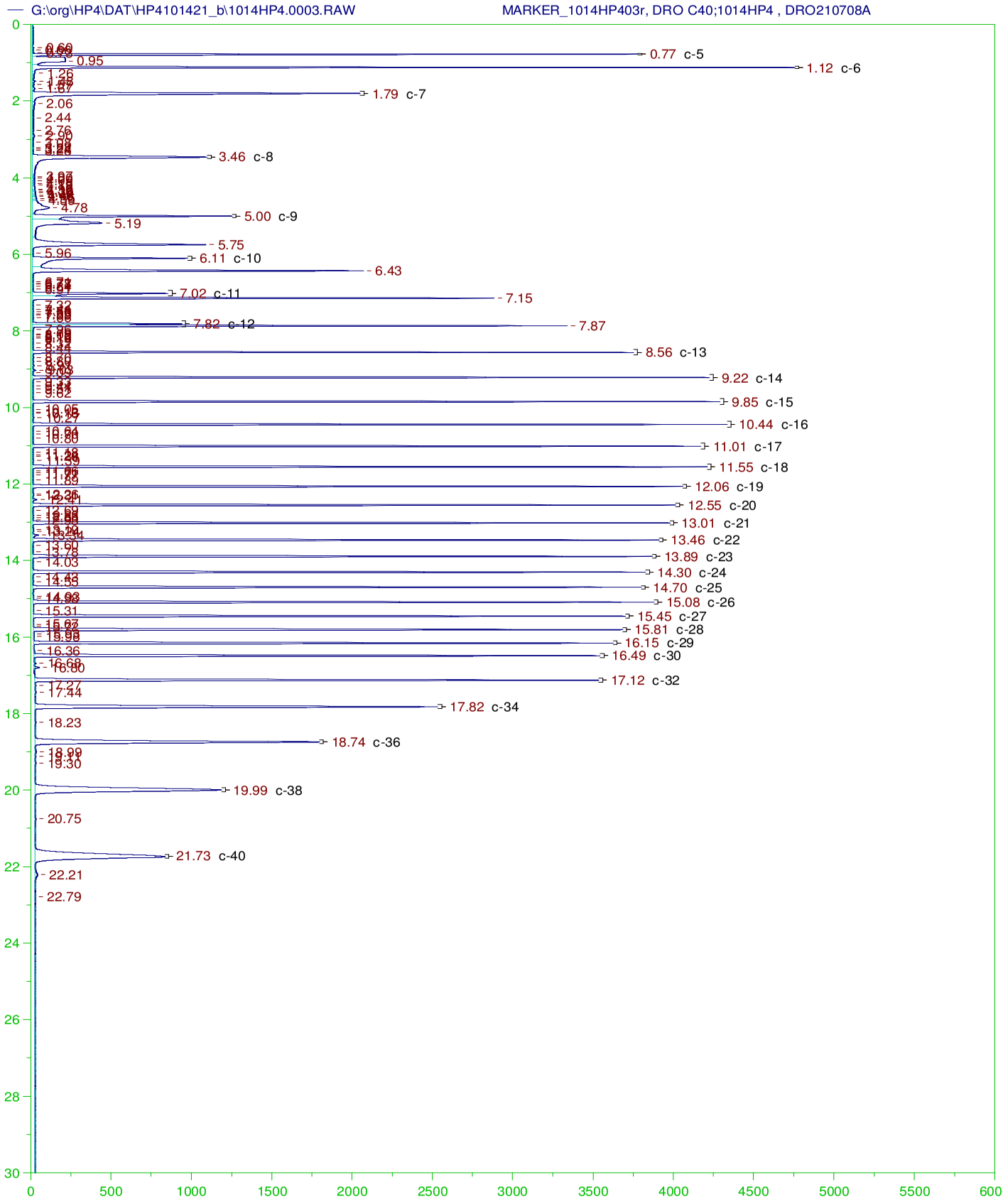
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0002.RAW
Date & Time Acquired: 10/14/2021 9:04:11 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

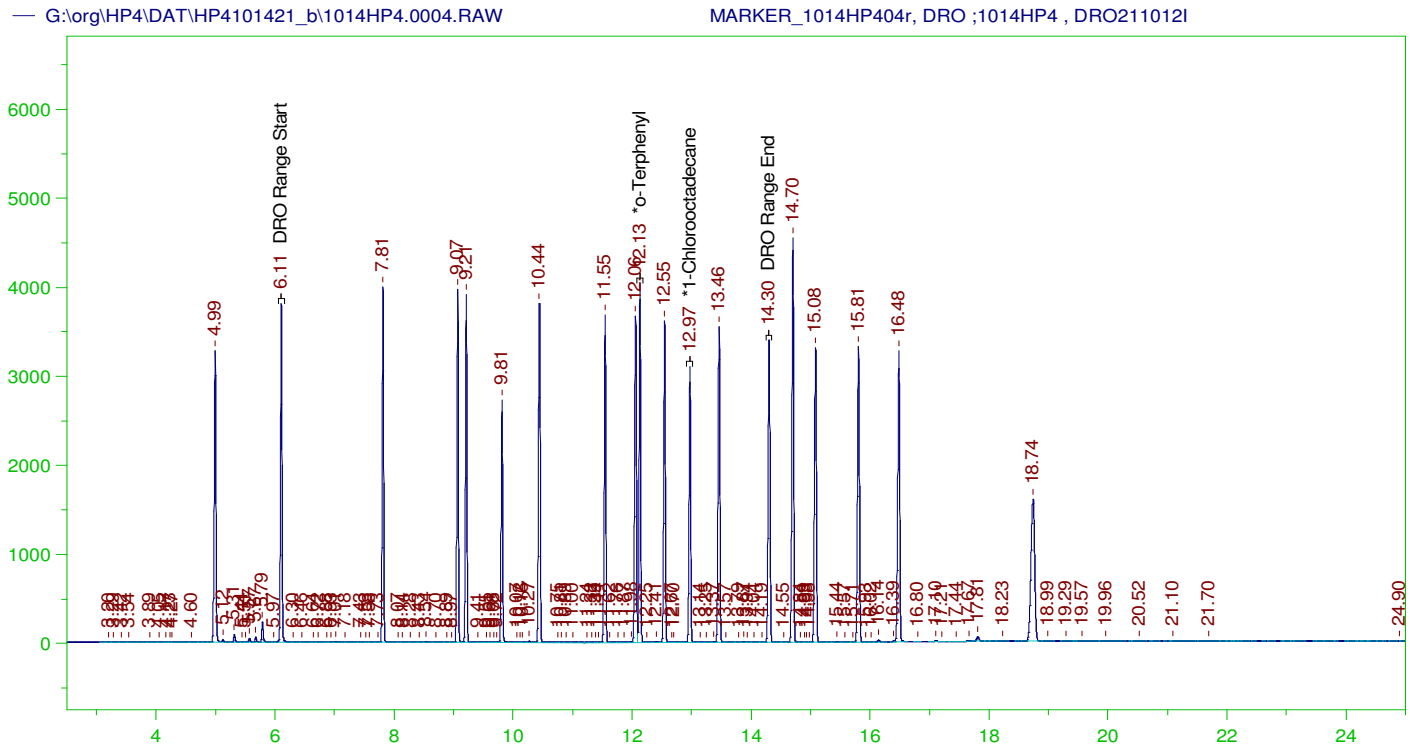
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.34 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.942 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.942 | 200. | . | . | - |

DRO Area:99623.86 DRO Amount: 3.827338
TEH Area:263403.7 TEH Amount: 10.11941

G:\org\HP4\dat\HP4101421_b\Review\002_DCM-Baseline Chec_DR_8015-MX-LEXP.xls


G:\org\HP4\DAT\HP4101421_b\1014HP4.0003.RAW
MARKER_1014HP403r, DRO C40;1014HP4 , DRO210708A
0.77 c-5
0.95
1.12 c-6
1.79 c-7
2.06
2.44
3.46 c-8
4.78
5.00 c-9
5.19
5.75
5.96
6.11 c-10
6.43
7.02 c-11
7.15
7.82 c-12
7.87
8.56 c-13
9.22 c-14
9.85 c-15
10.44 c-16
11.01 c-17
11.55 c-18
12.06 c-19
12.55 c-20
13.01 c-21
13.46 c-22
13.89 c-23
14.03
14.30 c-24
14.70 c-25
15.08 c-26
15.31
15.45 c-27
15.81 c-28
16.15 c-29
16.36
16.49 c-30
16.80
17.12 c-32
17.44
17.82 c-34
18.23
18.74 c-36
19.30
19.99 c-38
20.75
21.73 c-40
22.21
22.79
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
600
G:\org\HP4\dat\HP4101421_b\Review\003_MARKER_1014HP403r_CSC211014.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

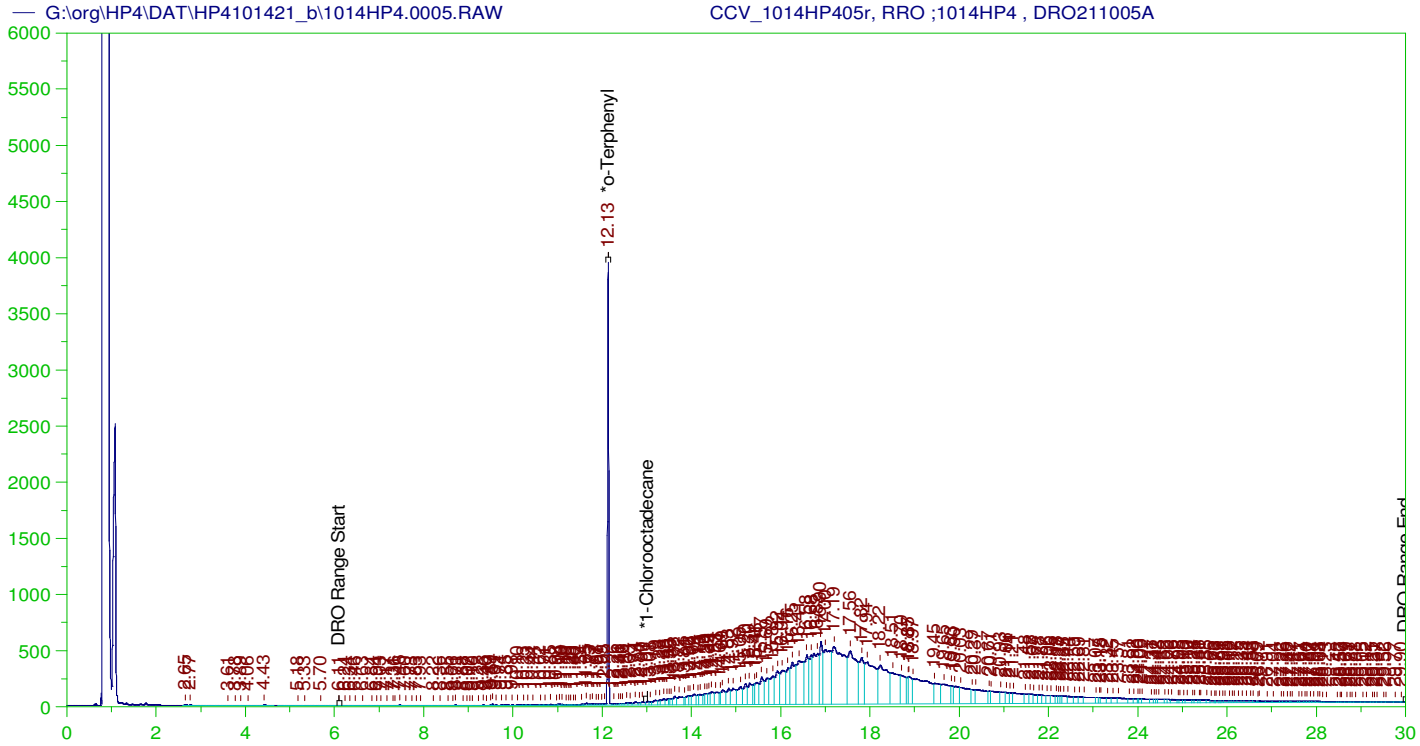
Sample Name: MARKER_1014HP404r, DRO ;1014HP4 , DRO211012I
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0004.RAW
Date & Time Acquired: 10/14/2021 10:34:42 AM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.133 | .2 | .239 | 119.38 | - |
| *1-Chlorooctadecane | 12.972 | .2 | .197 | 98.52 | - |

DRO Area:7.487051E+07 DRO Amount: 2.876366
TEH Area:1.21191E+08 TEH Amount: 4.655901

G:\org\HP4\dat\HP4101421_b\Review\004_MARKER_1014HP404r_DC_8015-24-MZ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP405r, RRO ;1014HP4 , DRO211005A
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0005.RAW
Date & Time Acquired: 10/14/2021 11:19:51 AM
Method File: G:\Org\HP4\methods\DC_8015-OIL-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.06 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.133 | 200. | 232.618 | 116.31 | - |
| *1-Chlorooctadecane | 13.008 | 200. | 3.873 | 1.94 | - |

DRO Area:1.228585E+08 DRO Amount: 5008.59
TEH (Oil Range) Area:1.228981E+08 TEH (Oil Range) Amount: 5010.203

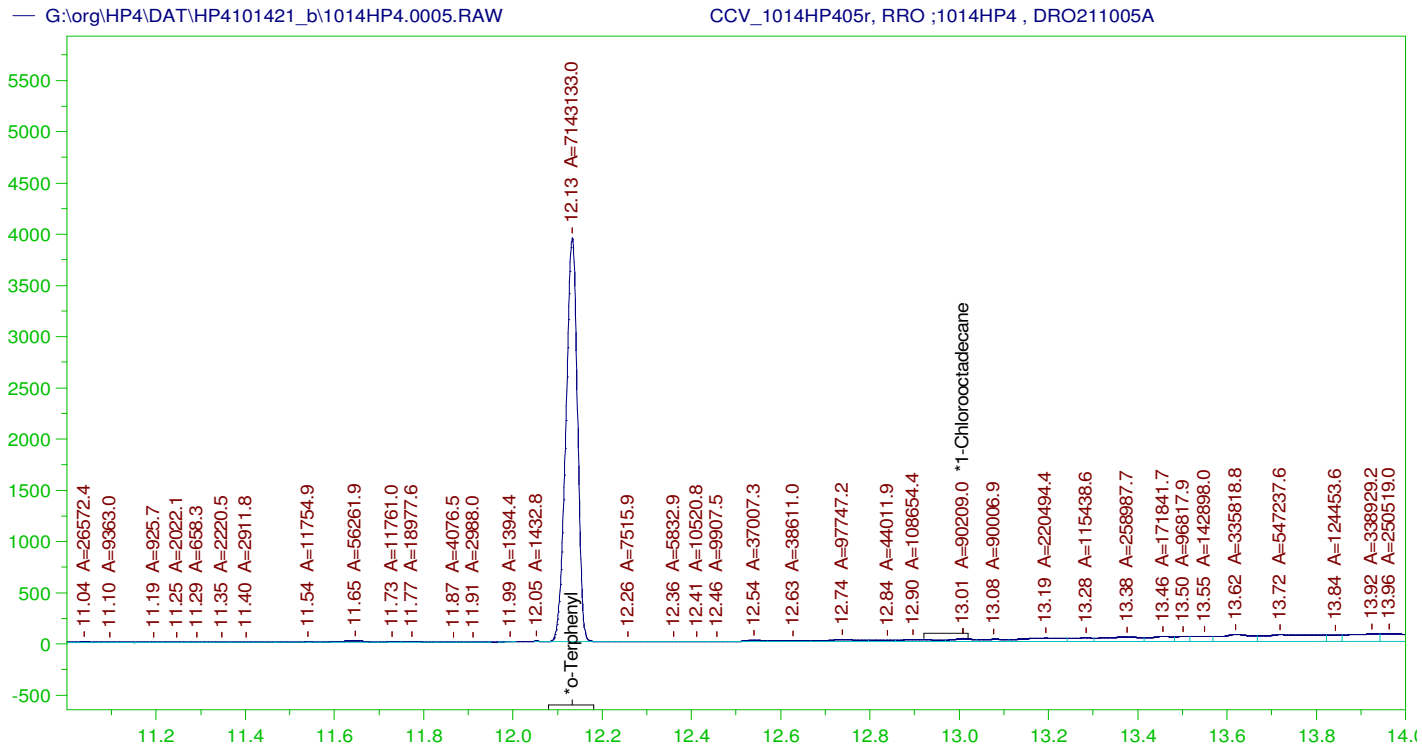
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5010.2 | 100.2 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.133 | 200. | 232.618 | 116.31 | 85-115 |
| *1-Chlorooctadecane | 13.008 | 200. | 3.873 | 1.94 | 85-115 |

AMN 10/19/2021

G:\org\HP4\dat\HP4101421_b\Review\005_CCV_1014HP405r_DC_8015-OIL-AB-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP405r, RRO ;1014HP4 , DRO211005A
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0005.RAW
Date & Time Acquired: 10/14/2021 11:19:51 AM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.06 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.133 | 200. | 230.657 | 115.33 | - |
| *1-Chlorooctadecane | 13.008 | 200. | 2.913 | 1.46 | - |

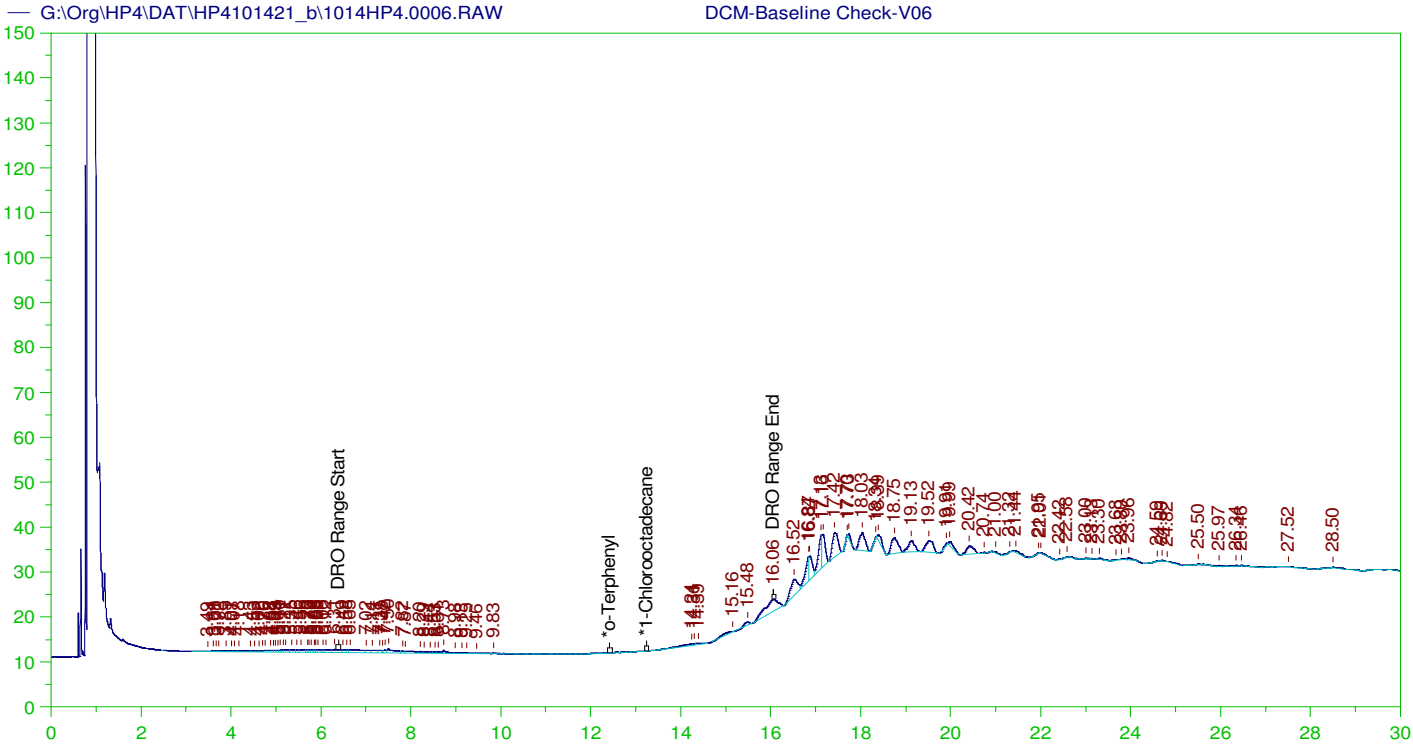
DRO Area:1.187814E+08 DRO Amount: 4842.376
TEH Area:1.188209E+08 TEH Amount: 4843.99

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4843.99 | 96.88 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.133 | 200. | 230.657 | 115.33 | 85-115 |
| *1-Chlorooctadecane | 13.008 | 200. | 2.913 | 1.46 | 85-115 |

G:\org\HP4\dat\HP4101421_b\Review\005_CCV_1014HP405r_DS_8015-OIL-AB-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

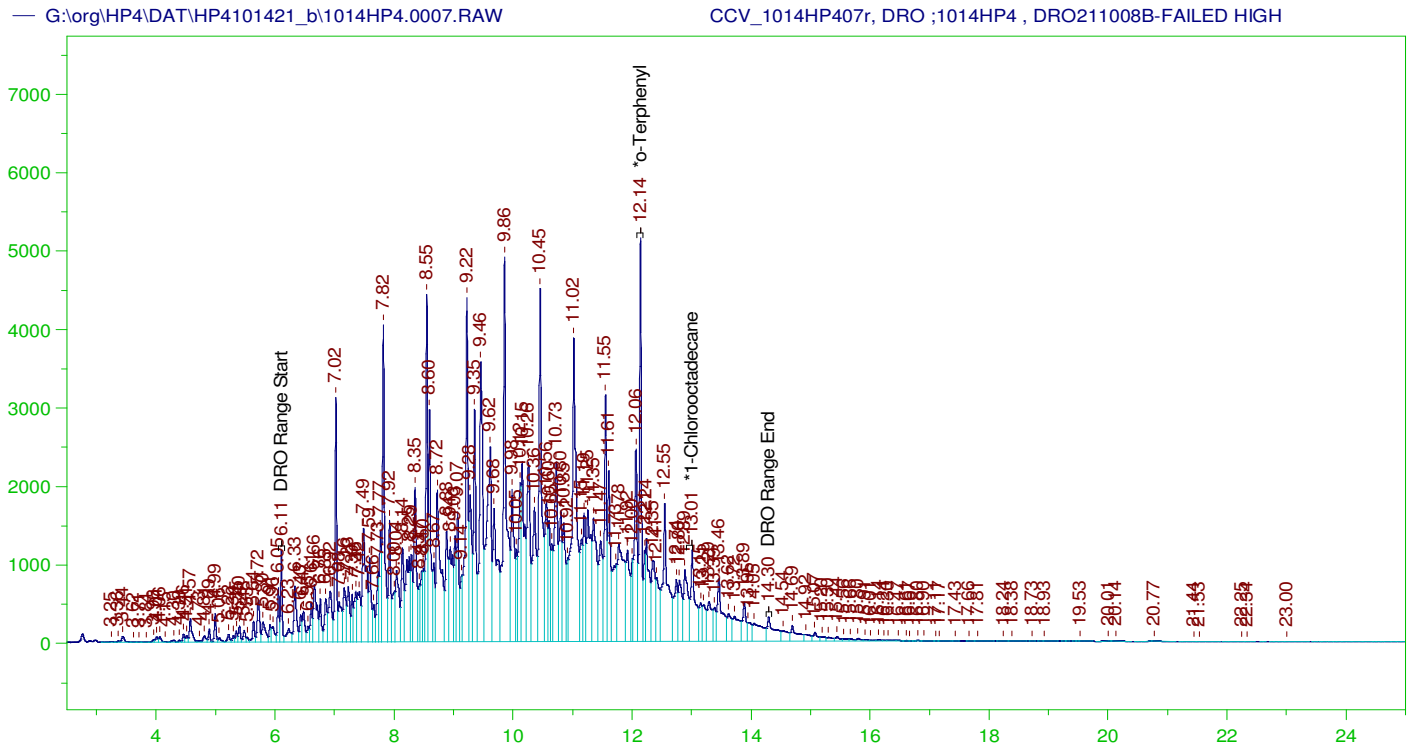
Sample Name: DCM-Baseline Check-V06
Raw File: G:\Org\HP4\DAT\HP4101421_b\1014HP4.0006.RAW
Date & Time Acquired: 10/14/2021 12:04:57 PM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.34 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.917 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.917 | 200. | . | . | - |

DRO Area:165014.5 DRO Amount: 6.339506
TEH Area:692415.3 TEH Amount: 26.60113

G:\org\HP4\dat\HP4101421_b\Review\006_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP407r, DRO ;1014HP4 , DRO211008B-FAILED HIGH
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0007.RAW
Date & Time Acquired: 10/14/2021 12:50:02 PM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.142 | 200. | 398.58 | 199.29 | - |
| *1-Chlorooctadecane | 13.012 | 200. | 188.85 | 94.42 | - |

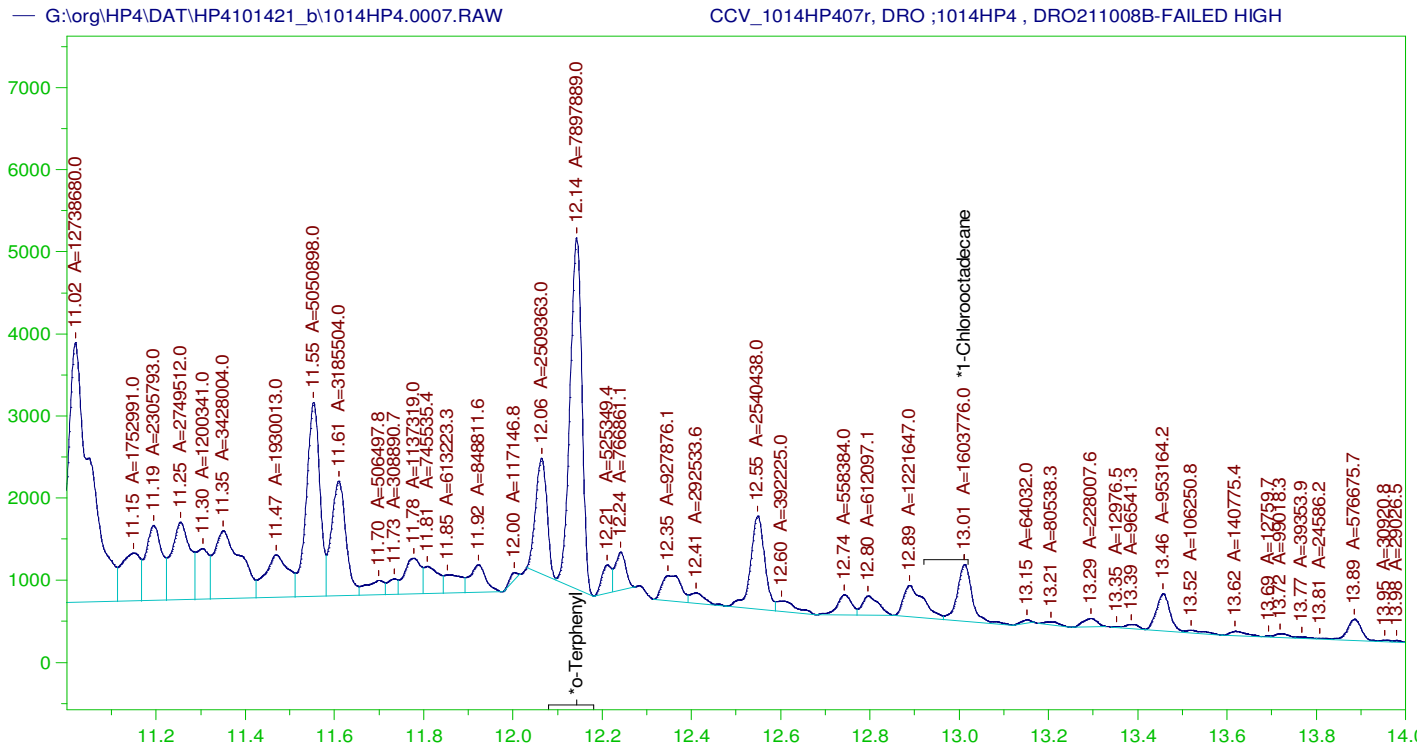
DRO Area:4.783225E+08 DRO Amount: 18376.13
TEH Area:4.956976E+08 TEH Amount: 19043.65

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 19043.65 | 126.96 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.142 | 200. | 398.58 | 199.29 | 85-115 |
| *1-Chlorooctadecane | 13.012 | 200. | 188.85 | 94.42 | 85-115 |

G:\org\HP4\dat\HP4101421_b\Review\007_CCV_1014HP407r_DC_8015-24-MZ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP407r, DRO ;1014HP4 , DRO211008B-FAILED HIGH
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0007.RAW
Date & Time Acquired: 10/14/2021 12:50:02 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.142 | 200. | 255.029 | 127.51 | - |
| *1-Chlorooctadecane | 13.012 | 200. | 51.787 | 25.89 | - |

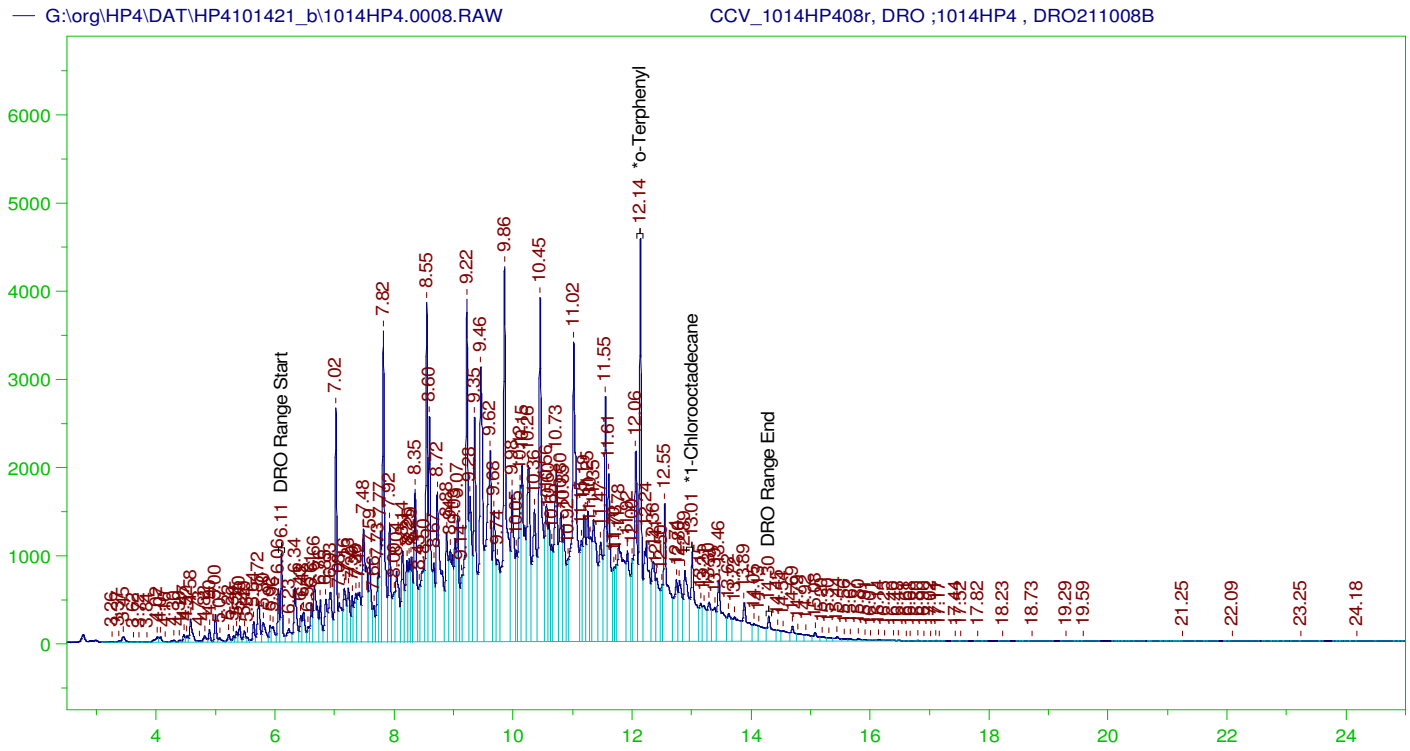
DRO Area:2.645253E+08 DRO Amount: 10162.5
TEH Area:2.755857E+08 TEH Amount: 10587.42

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 10587.42 | 70.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.142 | 200. | 255.029 | 127.51 | 85-115 |
| *1-Chlorooctadecane | 13.012 | 200. | 51.787 | 25.89 | 85-115 |

G:\org\HP4\dat\HP4101421_b\Review\007_CCV_1014HP407r_DS_8015-24-MZ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP408r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0008.RAW
Date & Time Acquired: 10/14/2021 1:38:21 PM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.141 | 200. | 350.594 | 175.3 | - |
| *1-Chlorooctadecane | 13.012 | 200. | 164.819 | 82.41 | - |

DRO Area:4.218739E+08 DRO Amount: 16207.5
TEH Area:4.378872E+08 TEH Amount: 16822.7

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16822.7 | 112.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.141 | 200. | 350.594 | 175.3 | 85-115 |
| *1-Chlorooctadecane | 13.012 | 200. | 164.819 | 82.41 | 85-115 |

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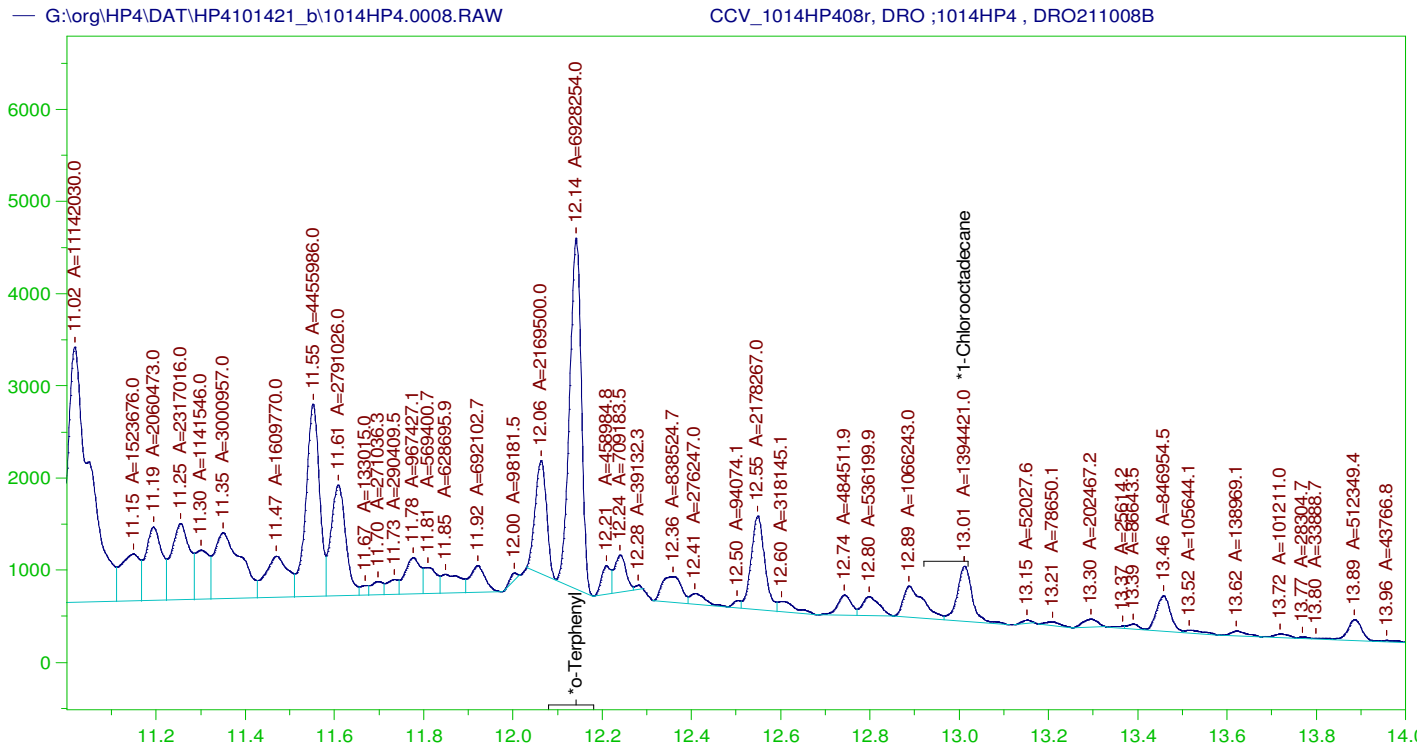



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP408r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0008.RAW
Date & Time Acquired: 10/14/2021 1:38:21 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.141 | 200. | 223.719 | 111.86 | - |
| *1-Chlorooctadecane | 13.012 | 200. | 45.027 | 22.51 | - |

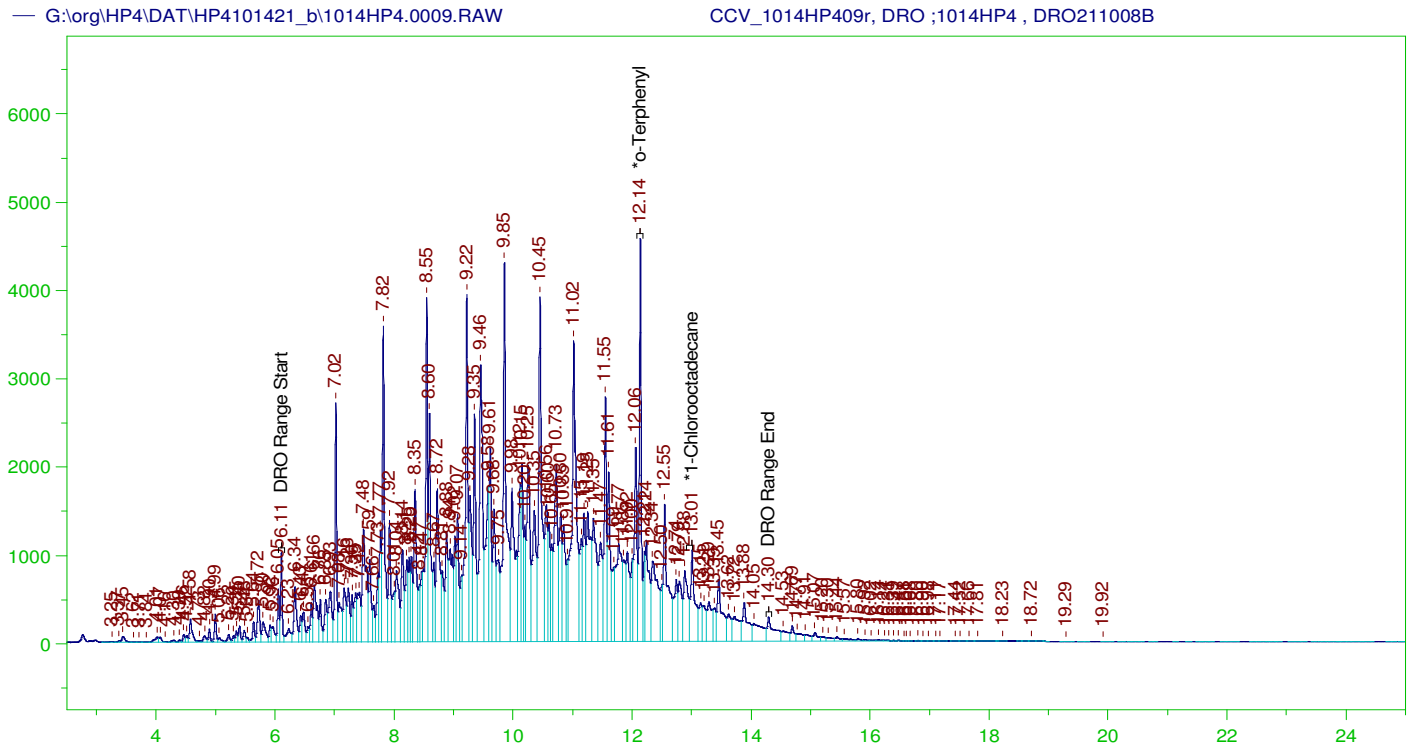
DRO Area:2.322793E+08 DRO Amount: 8923.677
TEH Area:2.420851E+08 TEH Amount: 9300.396

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9300.4 | 62. | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.141 | 200. | 223.719 | 111.86 | 85-115 |
| *1-Chlorooctadecane | 13.012 | 200. | 45.027 | 22.51 | 85-115 |

G:\org\HP4\dat\HP4101421_b\Review\008_CCV_1014HP408r_DS_8015-24-MZ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP409r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0009.RAW
Date & Time Acquired: 10/14/2021 2:23:50 PM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.14 | 200. | 349.084 | 174.54 | - |
| *1-Chlorooctadecane | 13.01 | 200. | 160.248 | 80.12 | - |

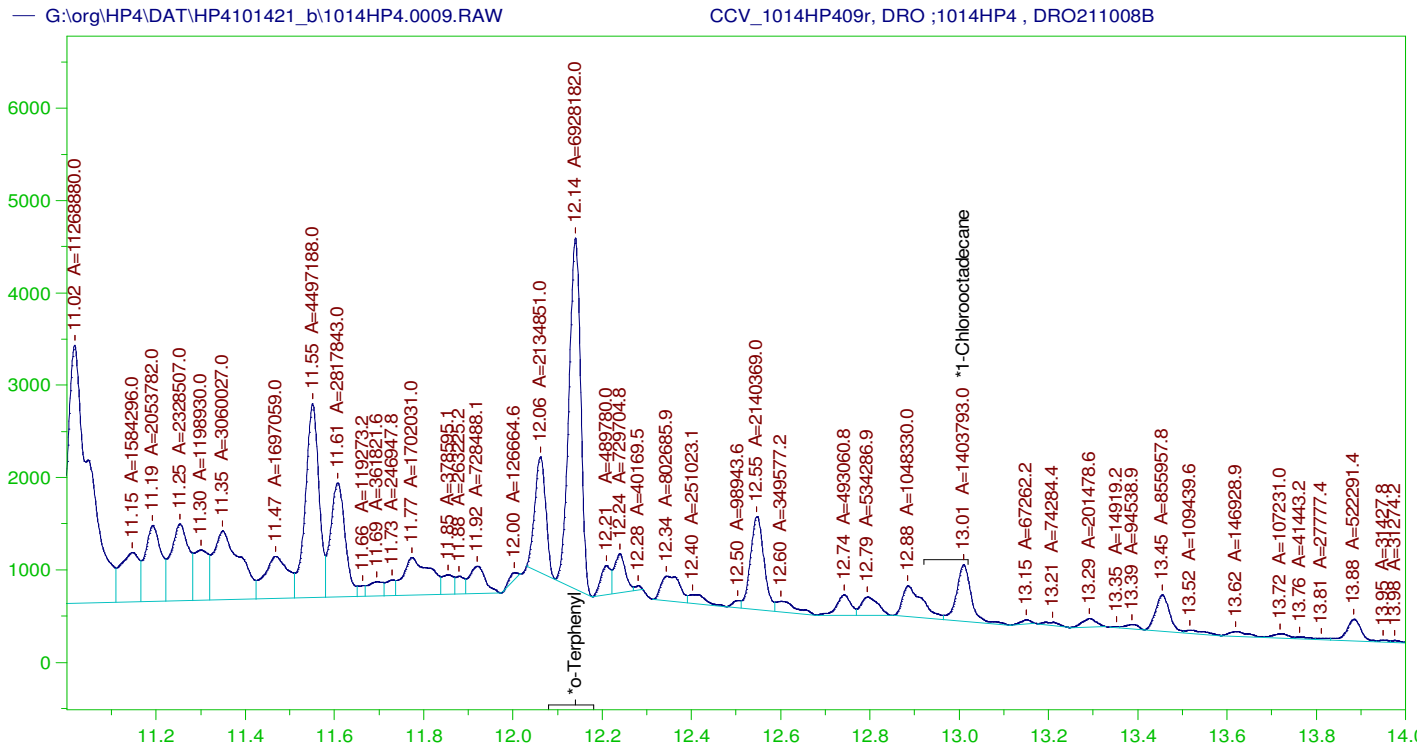
DRO Area:4.221121E+08 DRO Amount: 16216.65
TEH Area:4.375918E+08 TEH Amount: 16811.35

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16811.35 | 112.08 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.14 | 200. | 349.084 | 174.54 | 85-115 |
| *1-Chlorooctadecane | 13.01 | 200. | 160.248 | 80.12 | 85-115 |

G:\org\HP4\dat\HP4101421_b\Review\009_CCV_1014HP409r_DC_8015-24-MZ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP409r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0009.RAW
Date & Time Acquired: 10/14/2021 2:23:50 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.14 | 200. | 223.716 | 111.86 | - |
| *1-Chlorooctadecane | 13.01 | 200. | 45.33 | 22.66 | - |

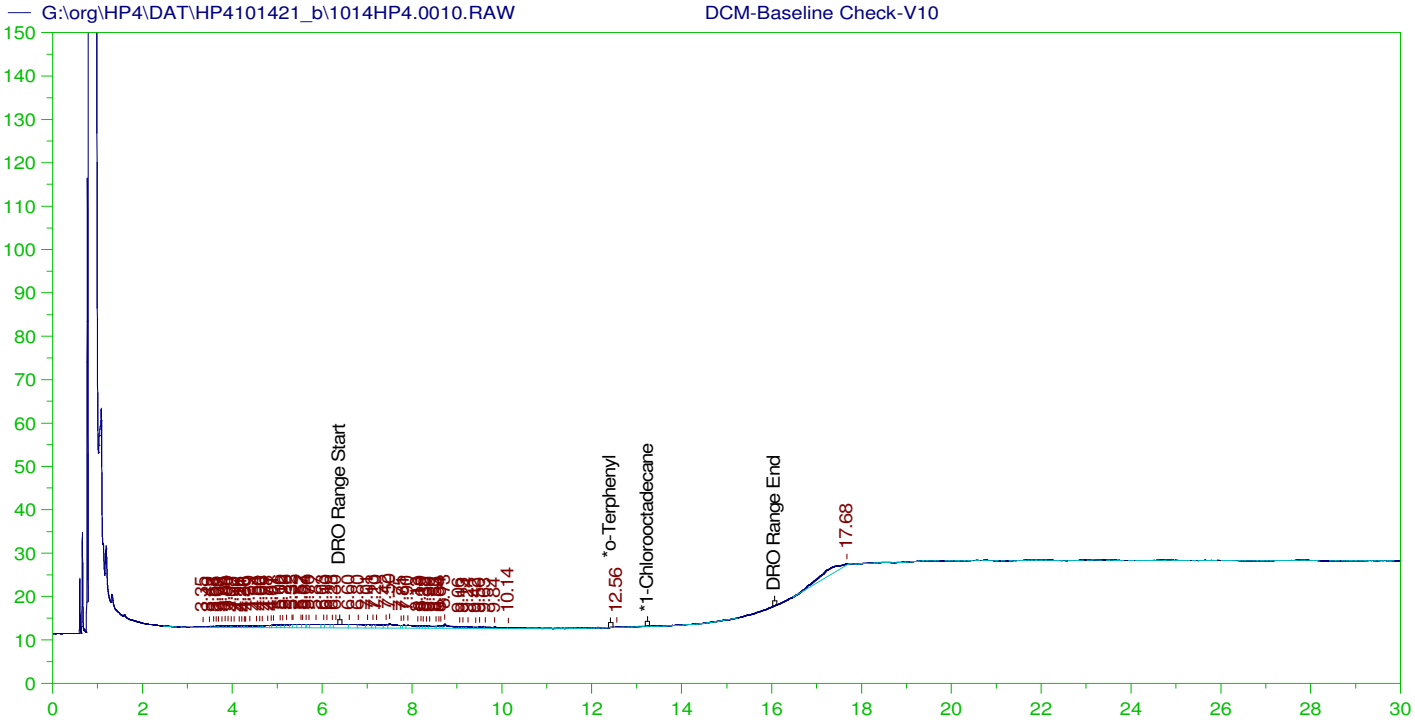
DRO Area:2.341086E+08 DRO Amount: 8993.956
TEH Area:2.439382E+08 TEH Amount: 9371.59

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9371.59 | 62.48 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.14 | 200. | 223.716 | 111.86 | 85-115 |
| *1-Chlorooctadecane | 13.01 | 200. | 45.33 | 22.66 | 85-115 |

G:\org\HP4\dat\HP4101421_b\Review\009_CCV_1014HP409r_DS_8015-24-MZ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

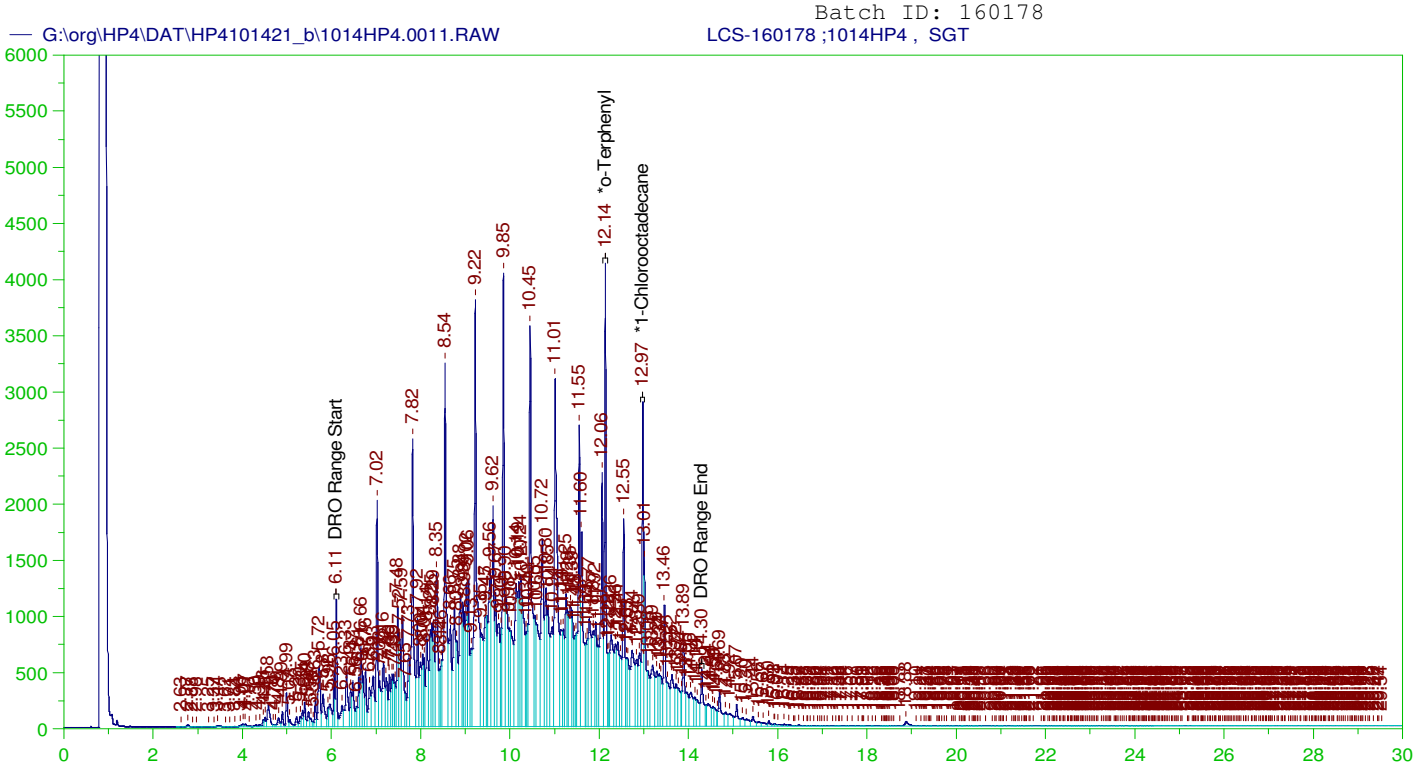
Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0010.RAW
Date & Time Acquired: 10/14/2021 3:08:38 PM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.34 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.791 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.791 | 200. | . | . | - |

DRO Area:107982.3 DRO Amount: 4.14845
TEH Area:274536.9 TEH Amount: 10.54713

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178 ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0011.RAW
Date & Time Acquired: 10/14/2021 3:53:28 PM
Method File: G:\Org\HP4\methods\D3_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | .2 | .313 | 156.59 | - |
| *1-Chlorooctadecane | 12.975 | .2 | .229 | 114.55 | - |

DRO Area:3.724864E+08 DRO Amount: 14.31014
TEH Area:3.965082E+08 TEH Amount: 15.233

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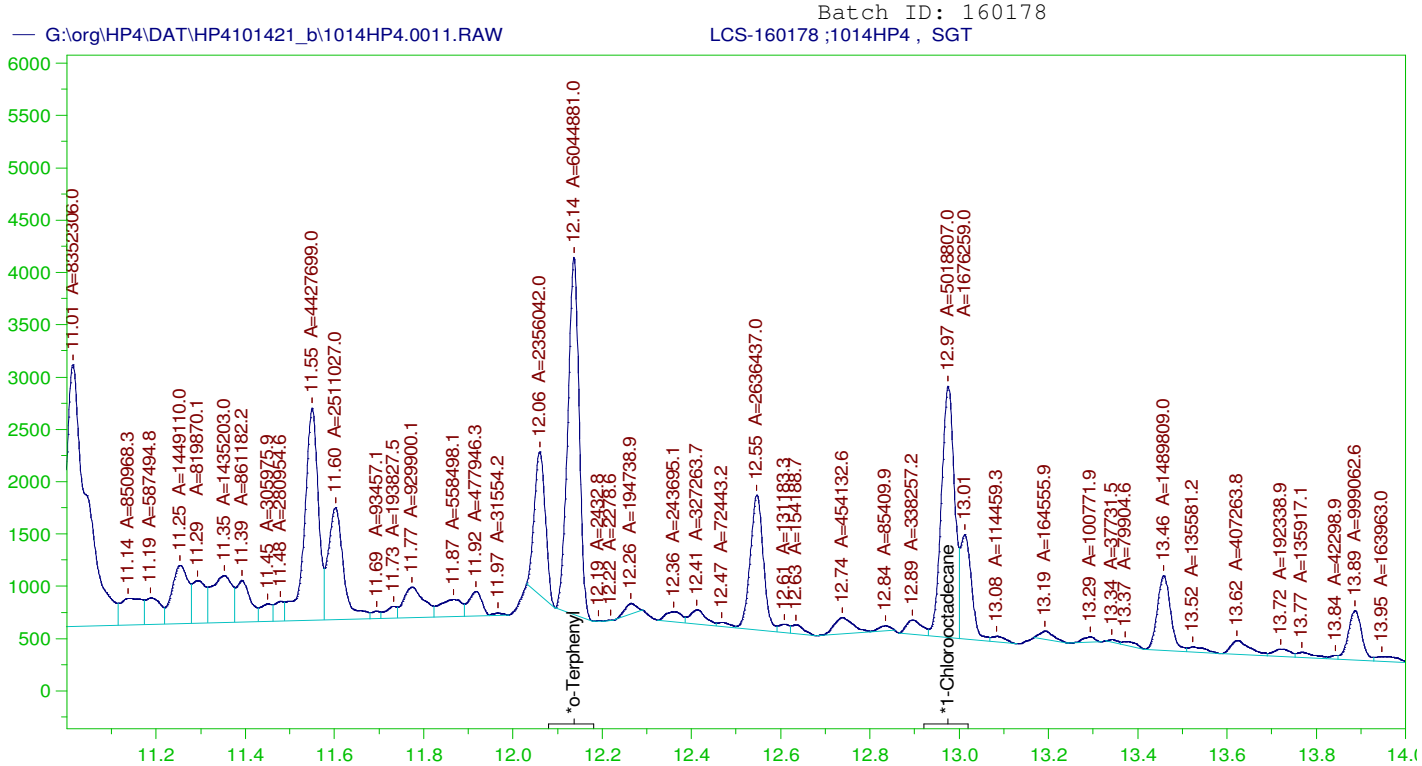
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178 ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0011.RAW
Date & Time Acquired: 10/14/2021 3:53:28 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | .2 | .195 | 97.6 | - |
| *1-Chlorooctadecane | 12.975 | .2 | .162 | 81.03 | - |

DRO Area:1.792625E+08 DRO Amount: 6.886887
TEH Area:1.900852E+08 TEH Amount: 7.302672

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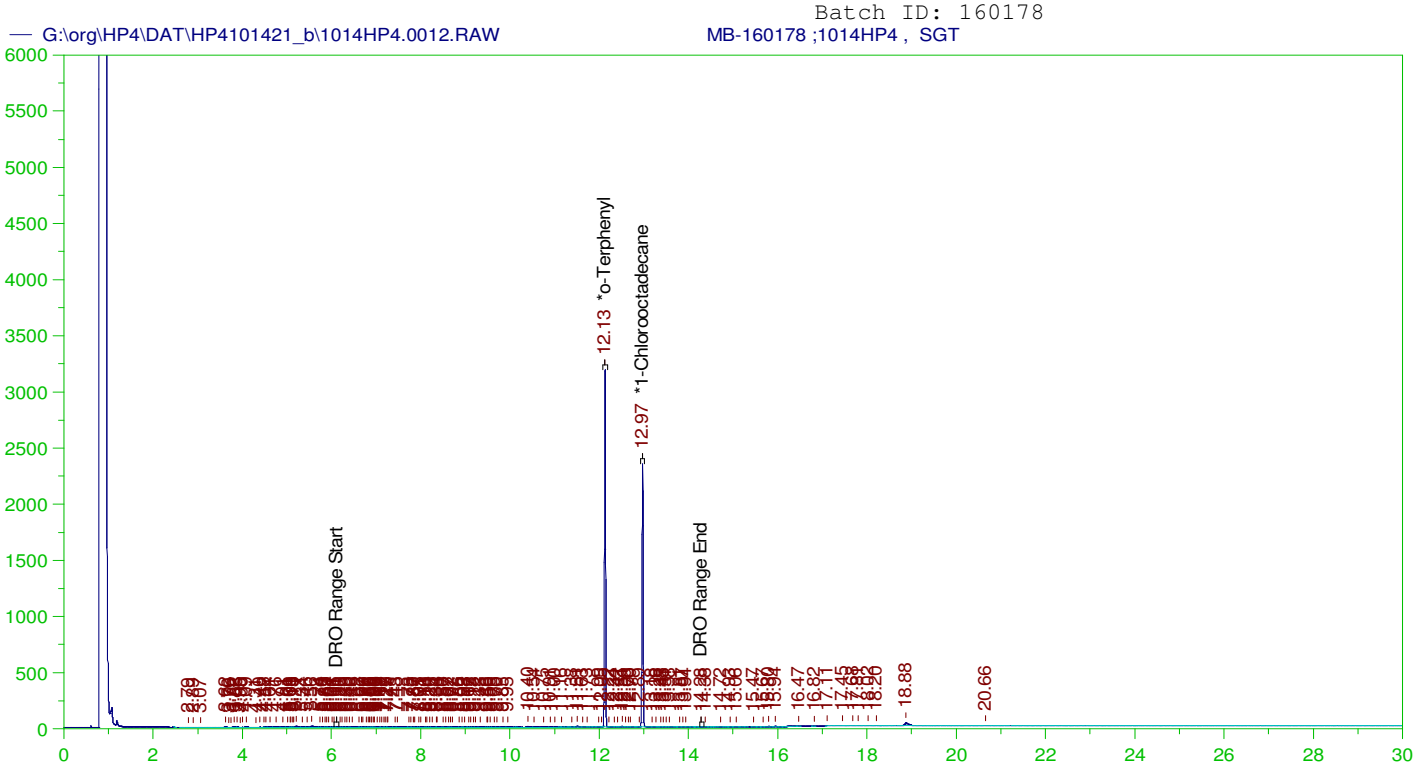
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160178 ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0012.RAW
Date & Time Acquired: 10/14/2021 4:38:14 PM
Method File: G:\Org\HP4\methods\DR_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.13 | .2 | .186 | 92.85 | - |
| *1-Chlorooctadecane | 12.97 | .2 | .148 | 74.23 | - |

DRO Area:285823.2 DRO Amount: 1.098072E-02
TEH Area:647795.8 TEH Amount: 2.488694E-02

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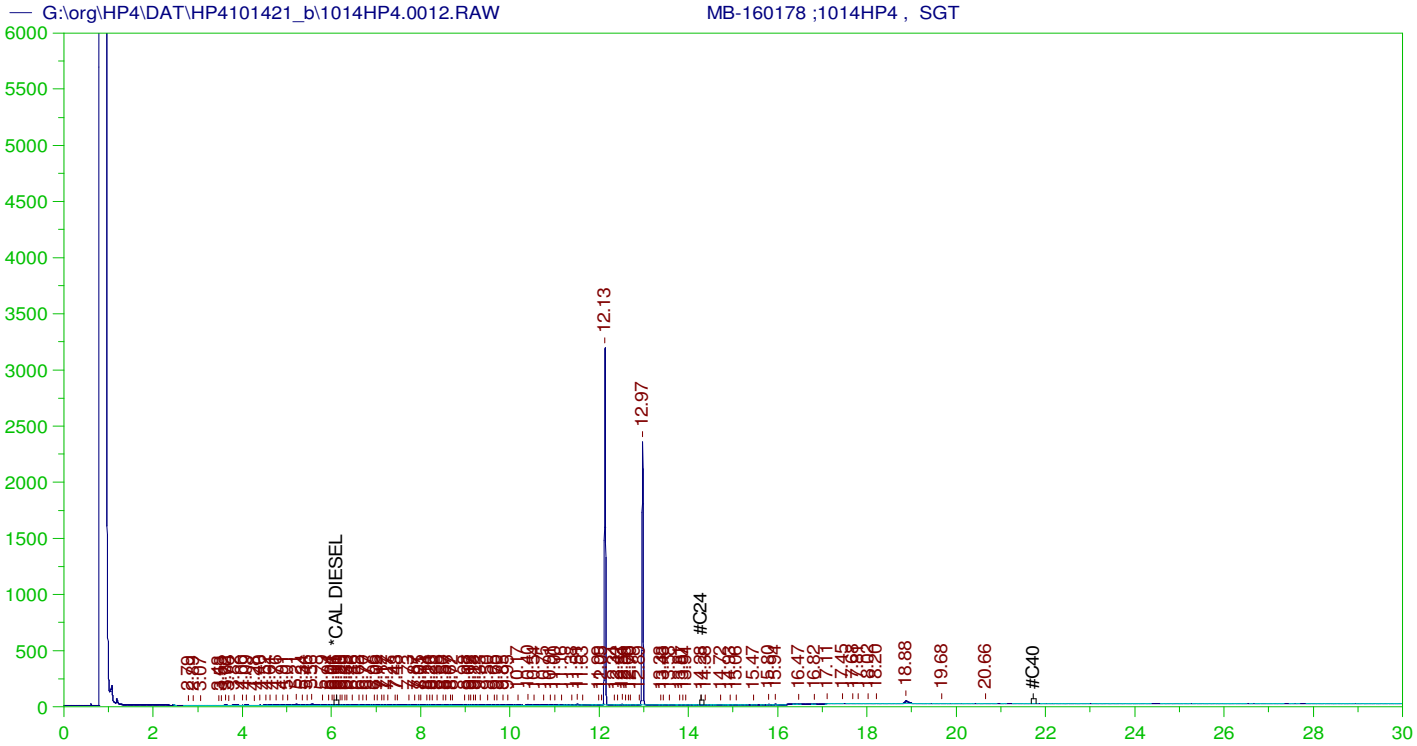


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160178 ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0012.RAW
Date & Time Acquired: 10/14/2021 4:38:14 PM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.25 to 21.78

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:185474.7 RRO AMOUNT: 7.561273E-03

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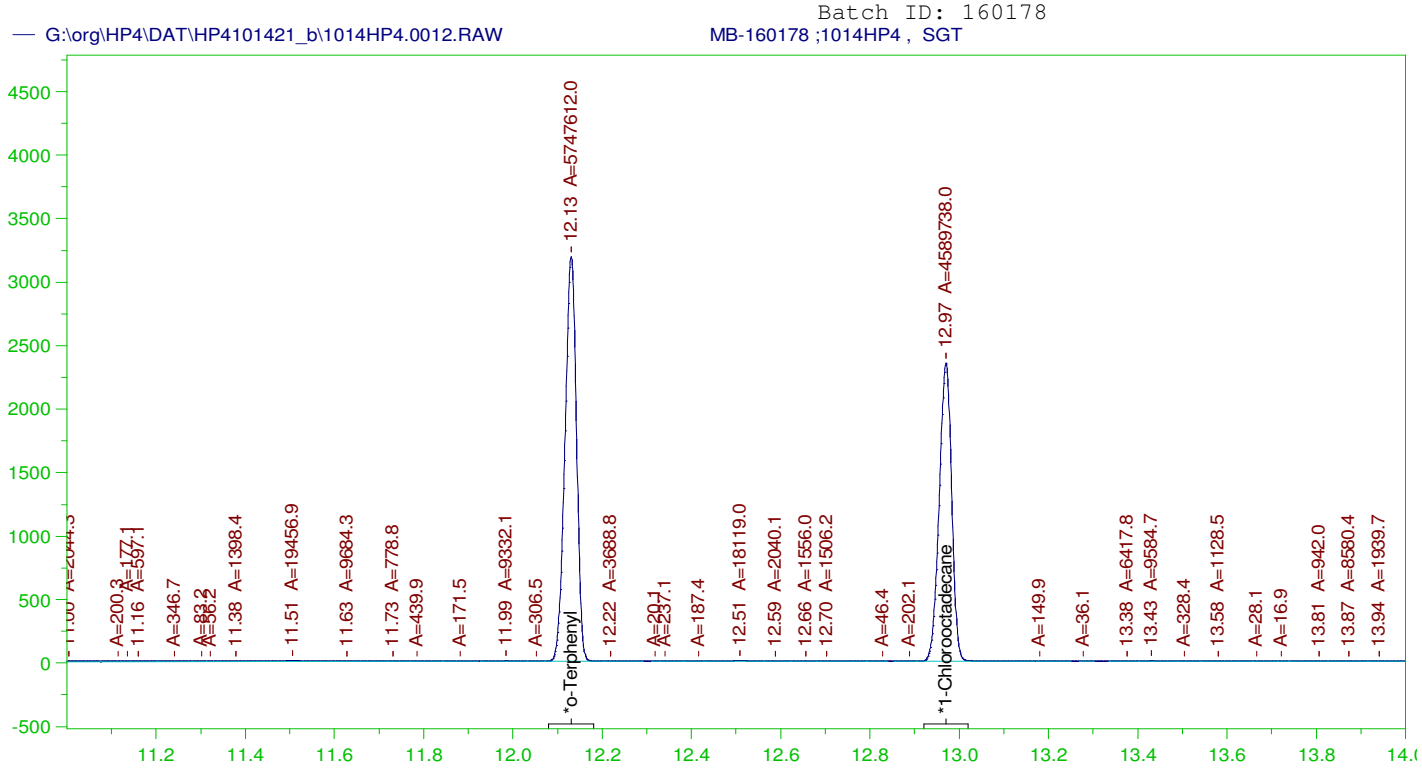
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160178 ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0012.RAW
Date & Time Acquired: 10/14/2021 4:38:14 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

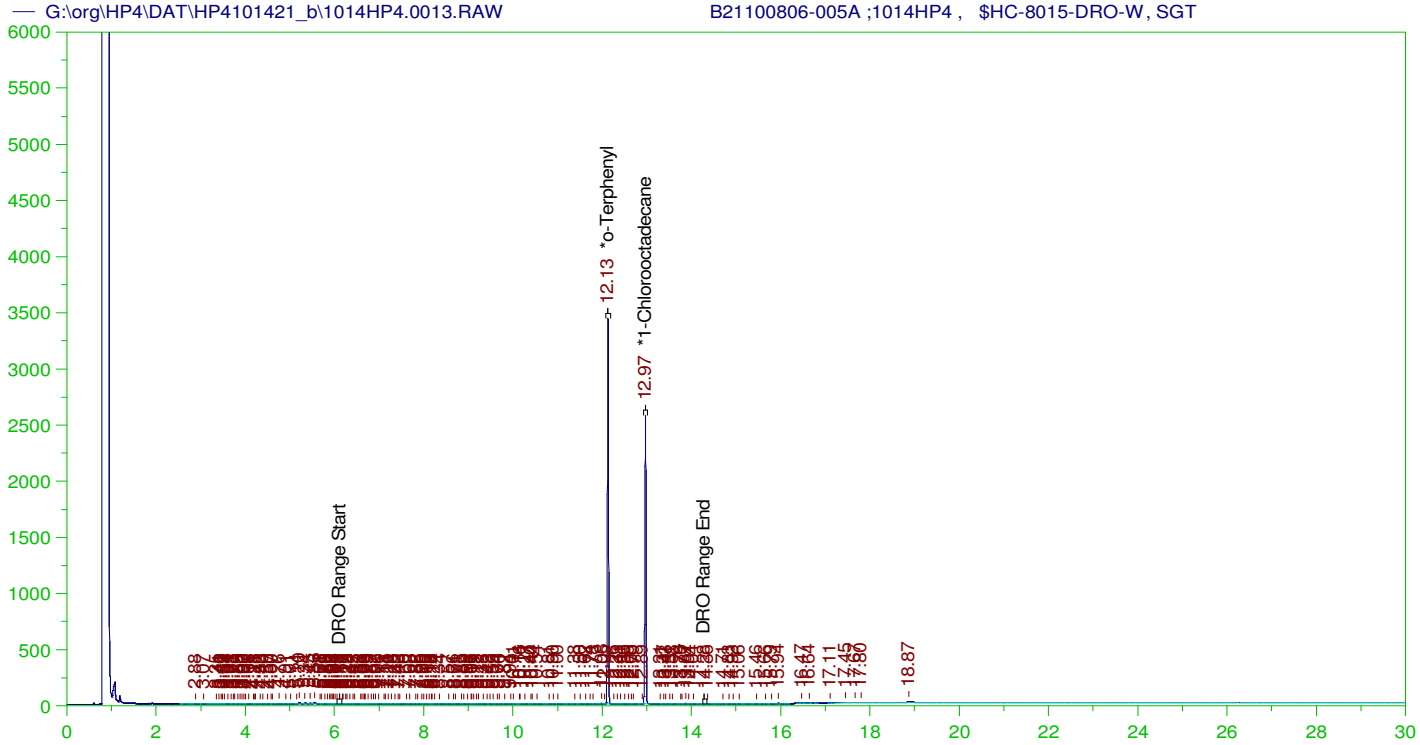
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.13 | .2 | .186 | 92.8 | - |
| *1-Chlorooctadecane | 12.97 | .2 | .148 | 74.1 | - |

DRO Area:267054.4 DRO Amount: 1.025966E-02
TEH Area:633111.7 TEH Amount: 2.432281E-02

G:\org\HP4\dat\HP4101421_b\Review\012_MB-160178_DS_8015-24-MZ-L#.xls

**ERH1796 (RHMW2254-01)** Batch ID: 160178

— G:\org\HP4\DAT\HP4101421_b\1014HP4.0013.RAW B21100806-005A ;1014HP4 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-005A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0013.RAW
Date & Time Acquired: 10/14/2021 5:24:01 PM
Method File: G:\Org\HP4\methods\DR_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | .189 | .192 | 101.83 | - |
| *1-Chlorooctadecane | 12.968 | .189 | .155 | 82.35 | - |

DRO Area:426861.4 DRO Amount: 1.547086E-02
TEH Area:836448.9 TEH Amount: 3.031565E-02

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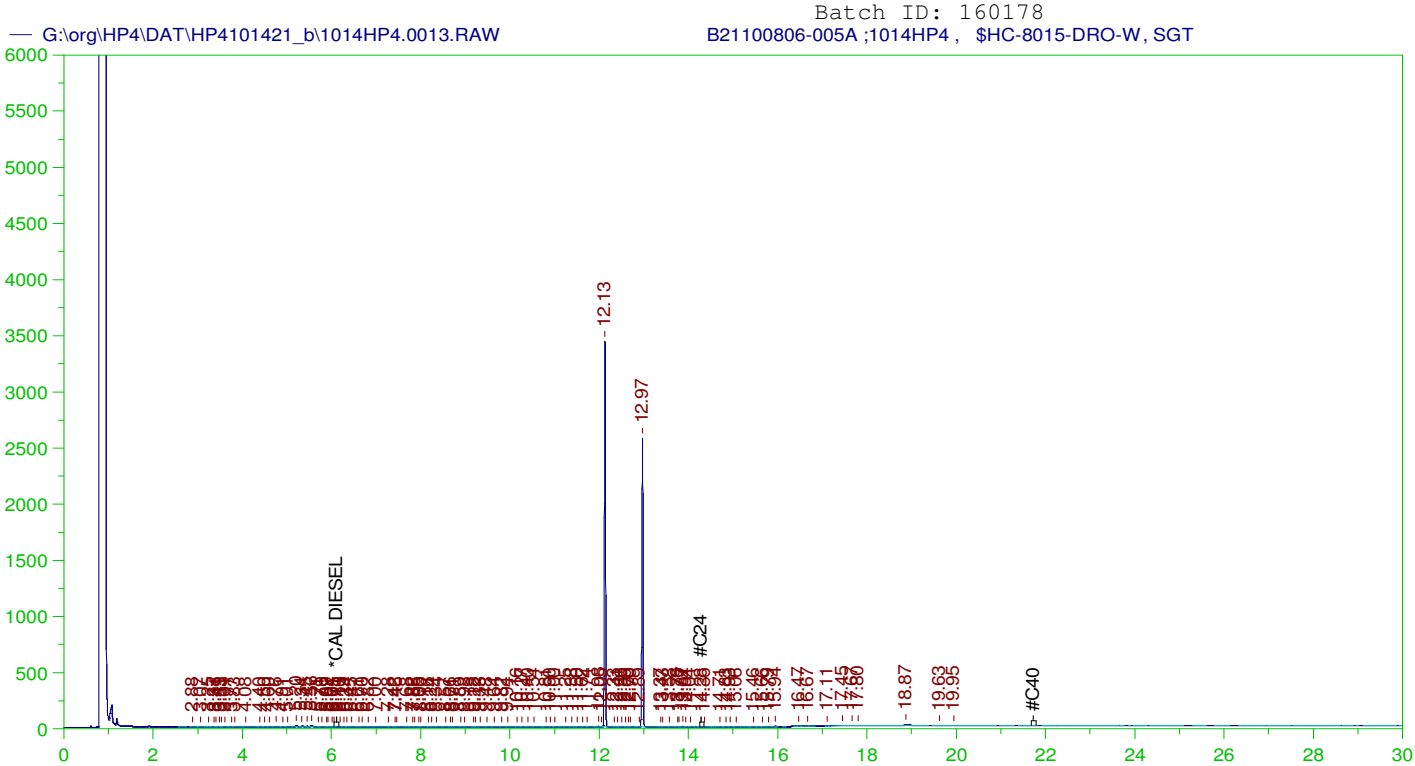
Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-005A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0013.RAW
Date & Time Acquired: 10/14/2021 5:24:01 PM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.25 to 21.78

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:116273.8 RRO AMOUNT: 4.471838E-03

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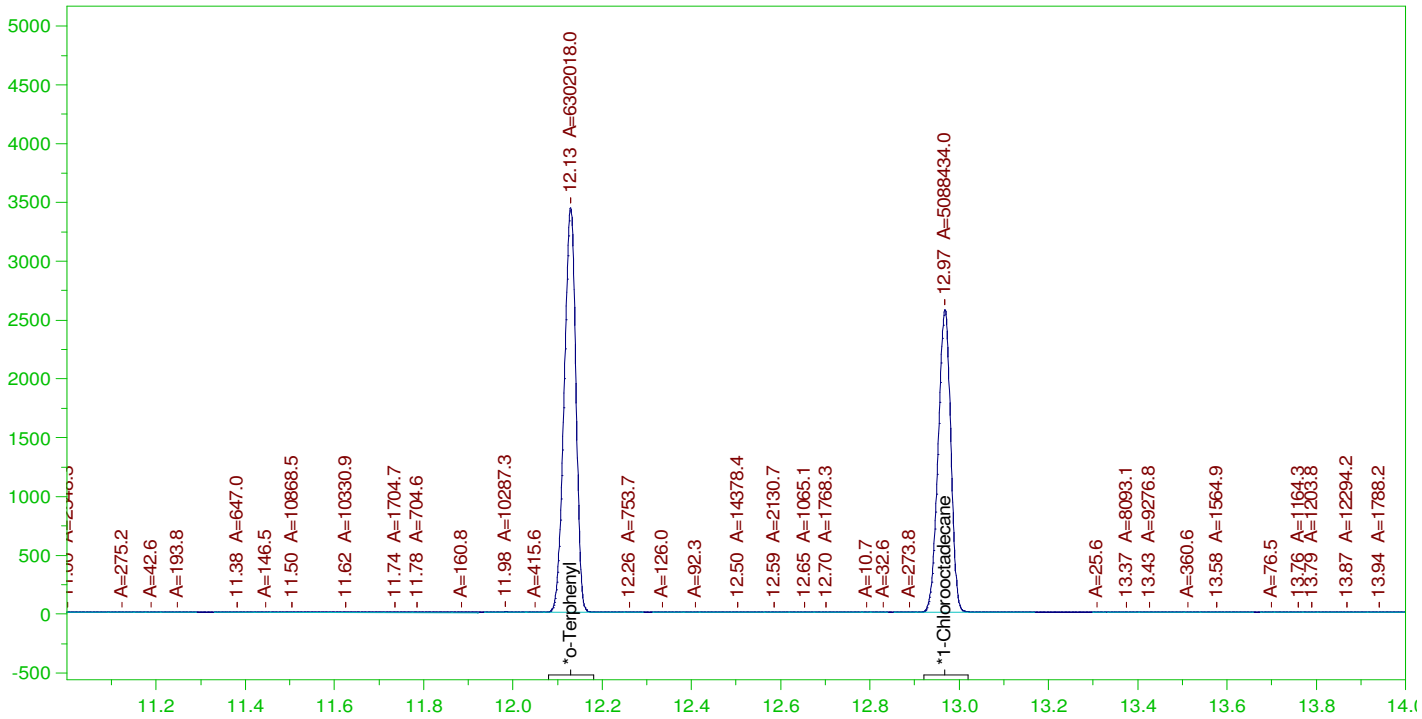
**ERH1796 (RHMW2254-01)** Batch ID: 160178

— G:\org\HP4\DAT\HP4101421_b\1014HP4.0013.RAW B21100806-005A ;1014HP4 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-005A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0013.RAW
Date & Time Acquired: 10/14/2021 5:24:01 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

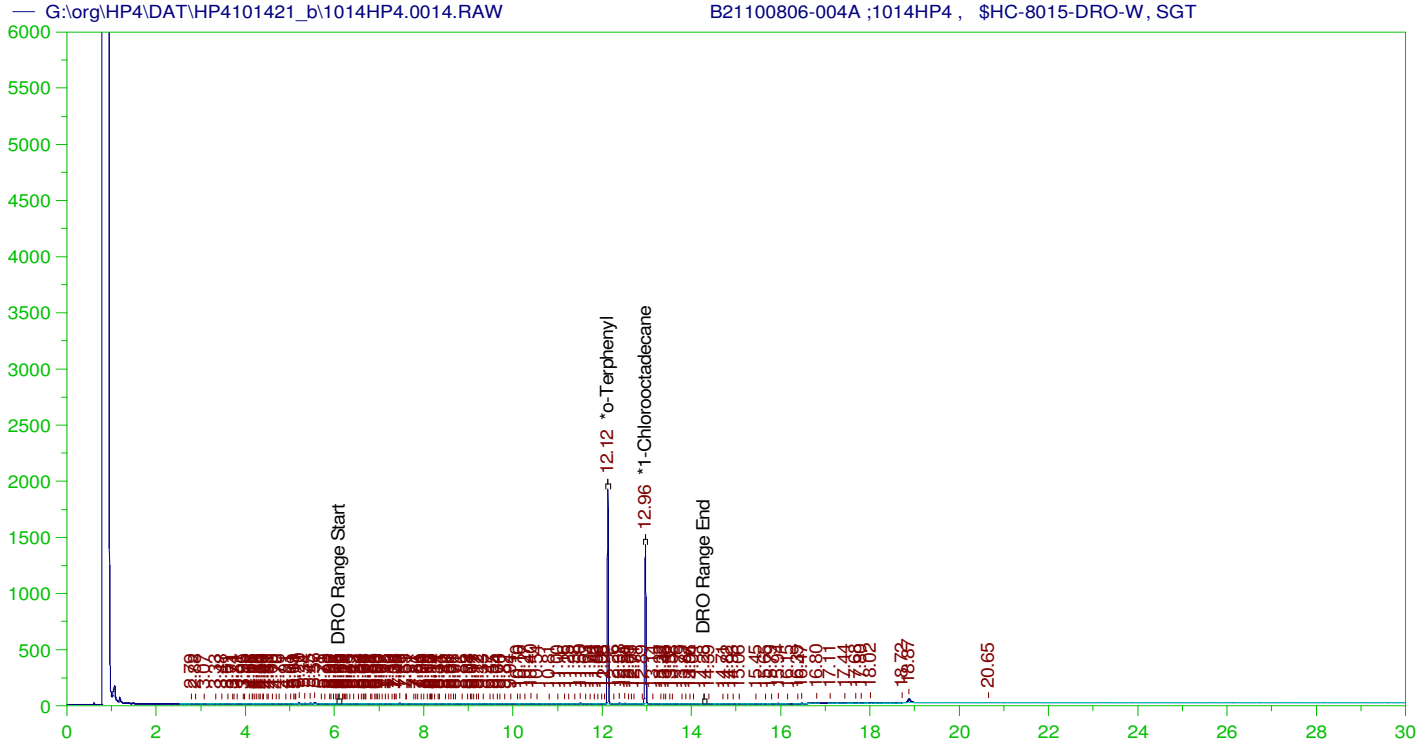
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | .189 | .192 | 101.75 | - |
| *1-Chlorooctadecane | 12.968 | .189 | .155 | 82.15 | - |

DRO Area:188200.5 DRO Amount: 6.821004E-03
TEH Area:493065.2 TEH Amount: 0.0178703

G:\org\HP4\dat\HP4101421_b\Review\013_B21100806-005A_DS_8015-24-MZ-L#.xls

**ERH1793 (RHMW05)** Batch ID: 160178

— G:\org\HP4\DAT\HP4101421_b\1014HP4.0014.RAW B21100806-004A ;1014HP4 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-004A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0014.RAW
Date & Time Acquired: 10/14/2021 6:09:48 PM
Method File: G:\Org\HP4\methods\DR_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.125 | .19 | .105 | 55.26 | - |
| *1-Chlorooctadecane | 12.965 | .19 | .085 | 44.58 | - |

DRO Area:383779.8 DRO Amount: 1.404191E-02
TEH Area:849917.1 TEH Amount: 3.109716E-02

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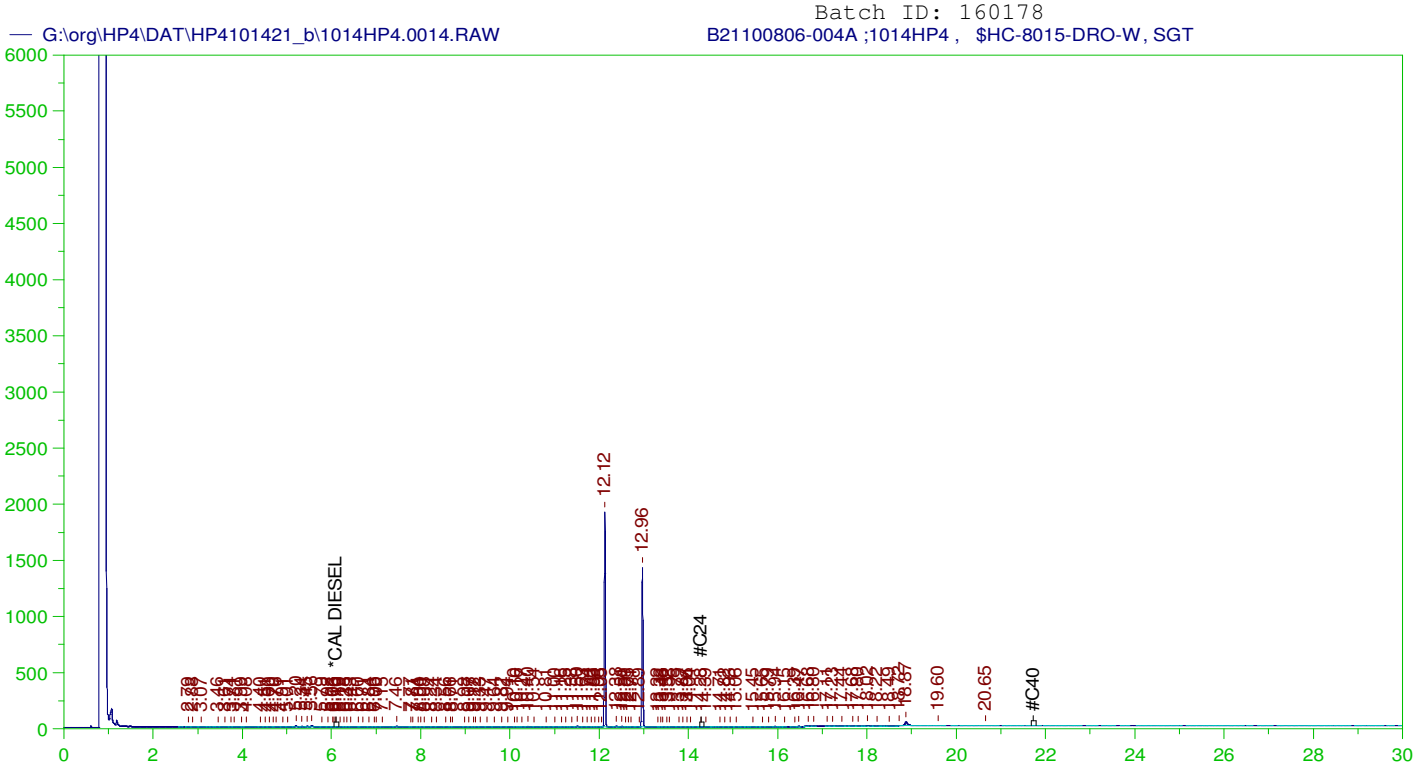
Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-004A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0014.RAW
Date & Time Acquired: 10/14/2021 6:09:48 PM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.25 to 21.78

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:248511.2 RRO AMOUNT: 9.648656E-03

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**ERH1793 (RHMW05)** Batch ID: 160178

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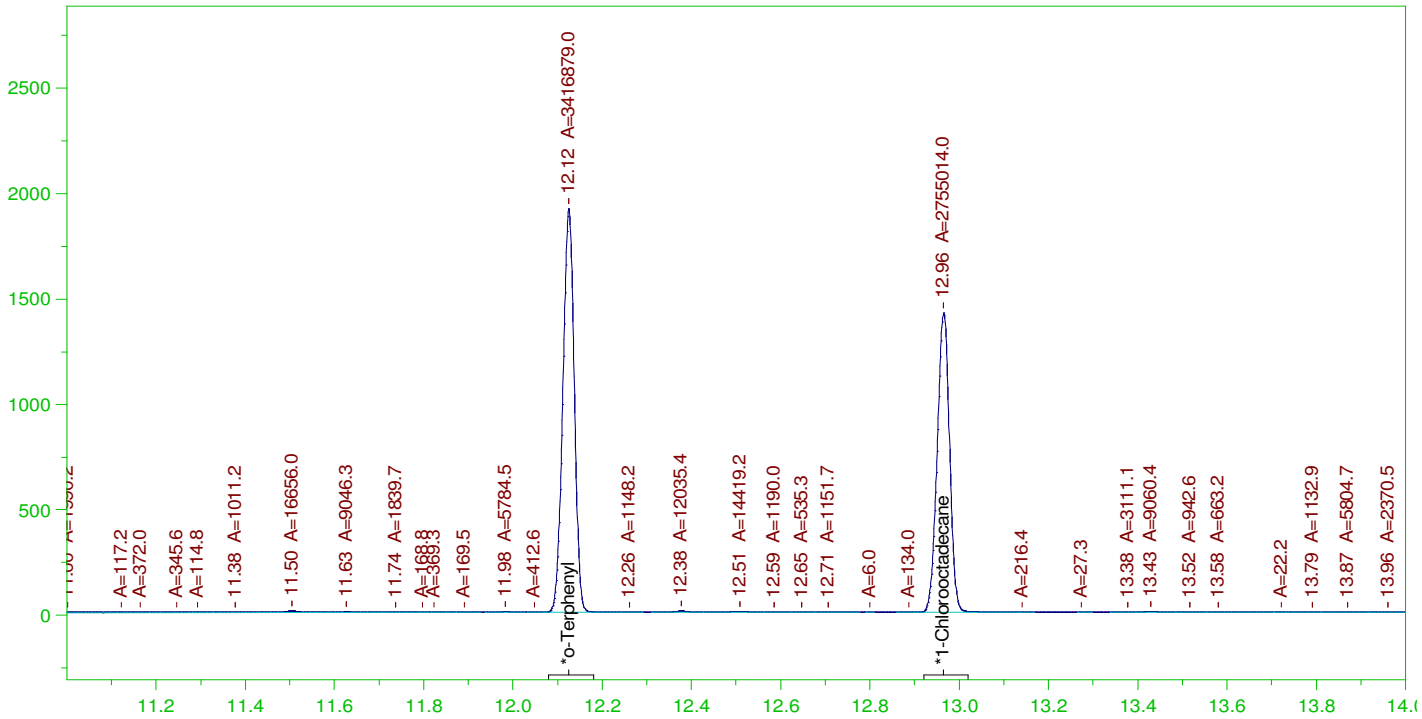


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-004A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0014.RAW
Date & Time Acquired: 10/14/2021 6:09:48 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.125 | .19 | .105 | 55.17 | - |
| *1-Chlorooctadecane | 12.965 | .19 | .085 | 44.48 | - |

DRO Area:348980.5 DRO Amount: 1.276866E-02
TEH Area:811212.7 TEH Amount: 2.968102E-02

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**ERH1787 (RHMW02)** Batch ID: 160178

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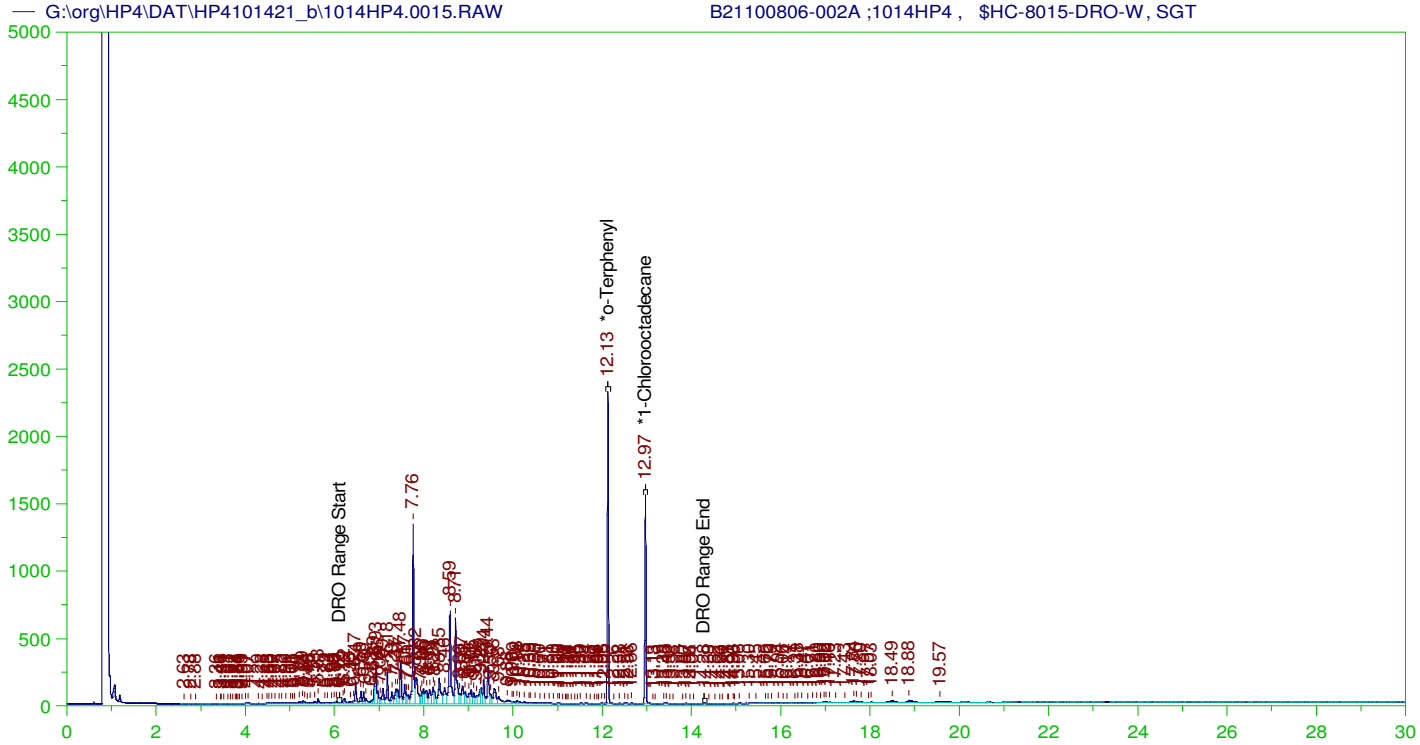


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0015.RAW
Date & Time Acquired: 10/14/2021 6:55:23 PM
Method File: G:\Org\HP4\methods\DR_8015-101415-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.127 | .19 | .127 | 67.07 | - |
| *1-Chlorooctadecane | 12.967 | .19 | .094 | 49.43 | - |

DRO Area:2.06208E+07 DRO Amount: 0.7509074
TEH Area:2.17187E+07 TEH Amount: 0.7908874

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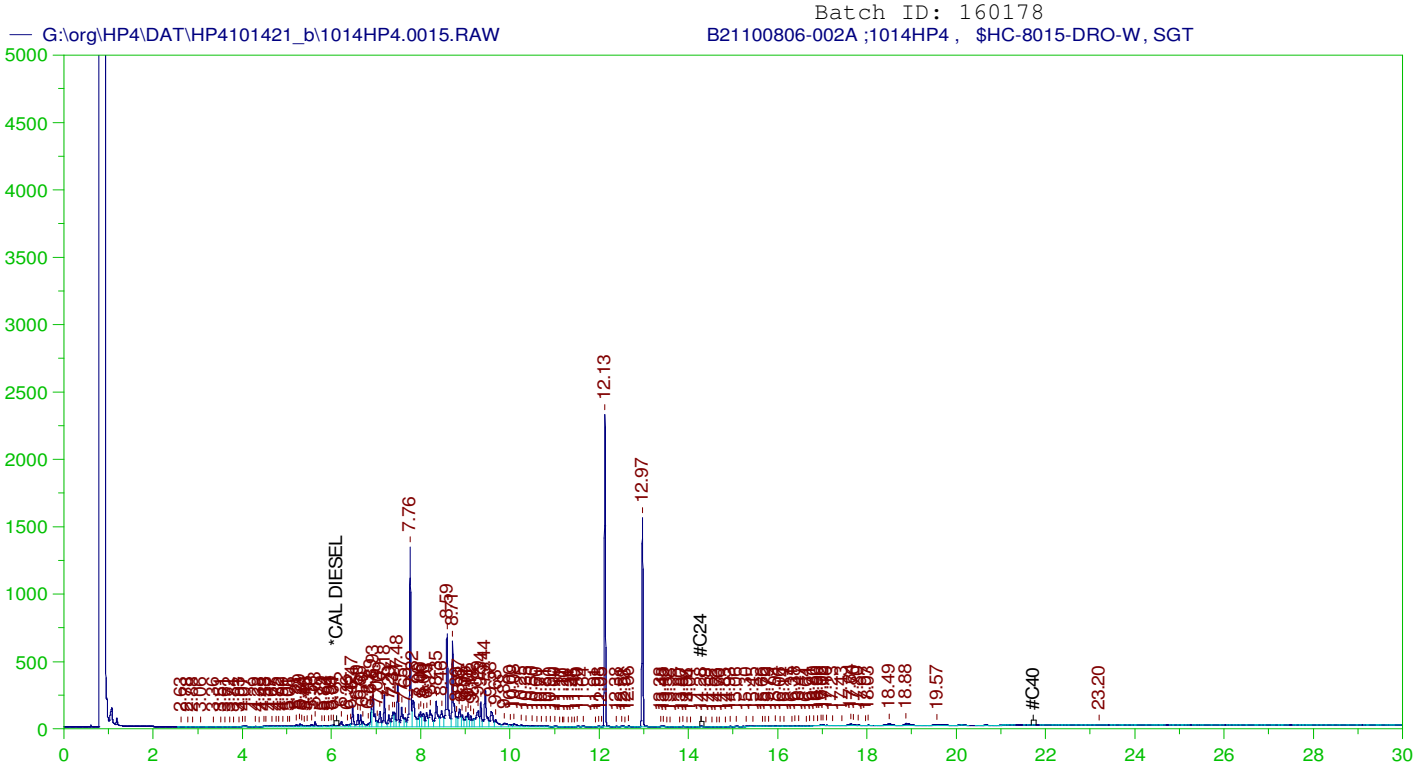
Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0015.RAW
Date & Time Acquired: 10/14/2021 6:55:23 PM
Method File: G:\Org\HP4\methods\DR_8015-101415-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

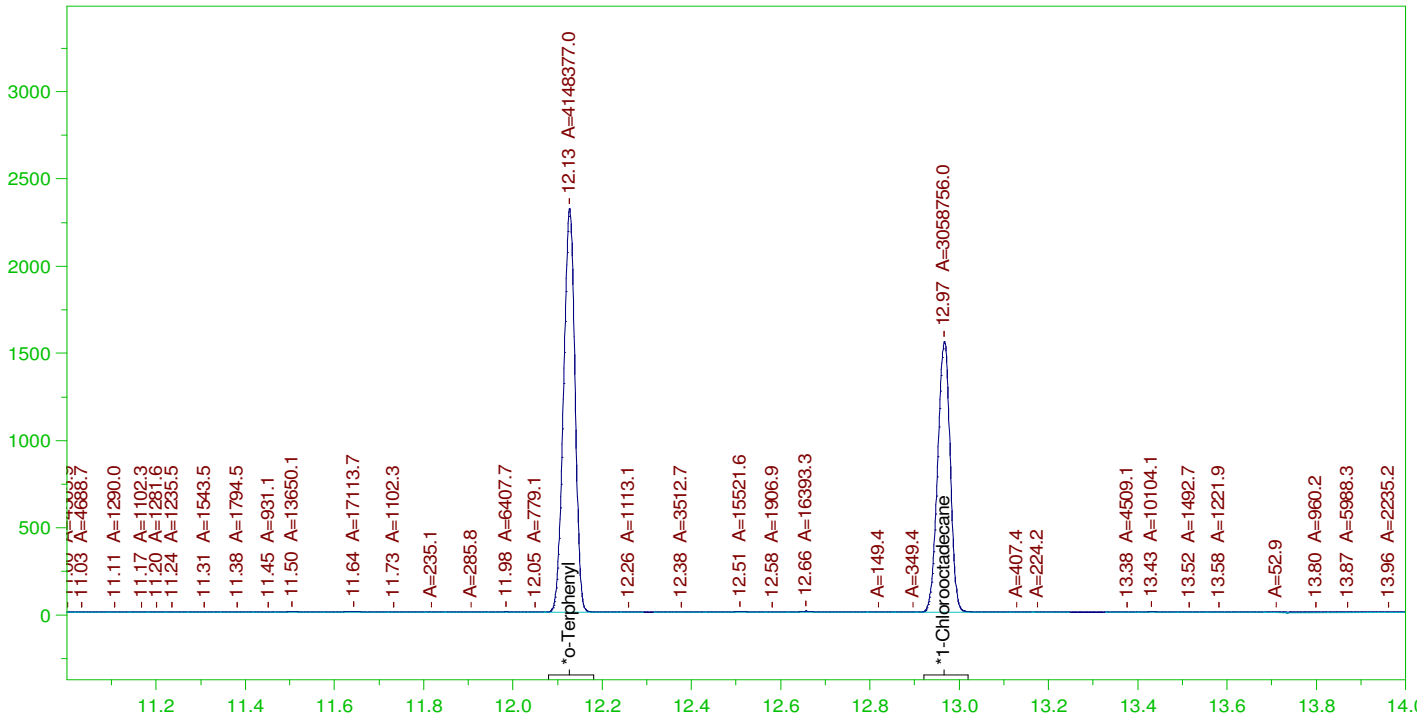
Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.25 to 21.78

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:495000 RRO AMOUNT: 1.912771E-02

**ERH1787 (RHMW02)** Batch ID: 160178

— G:\org\HP4\DAT\HP4101421_b\1014HP4.0015.RAW B21100806-002A ;1014HP4 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0015.RAW
Date & Time Acquired: 10/14/2021 6:55:23 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

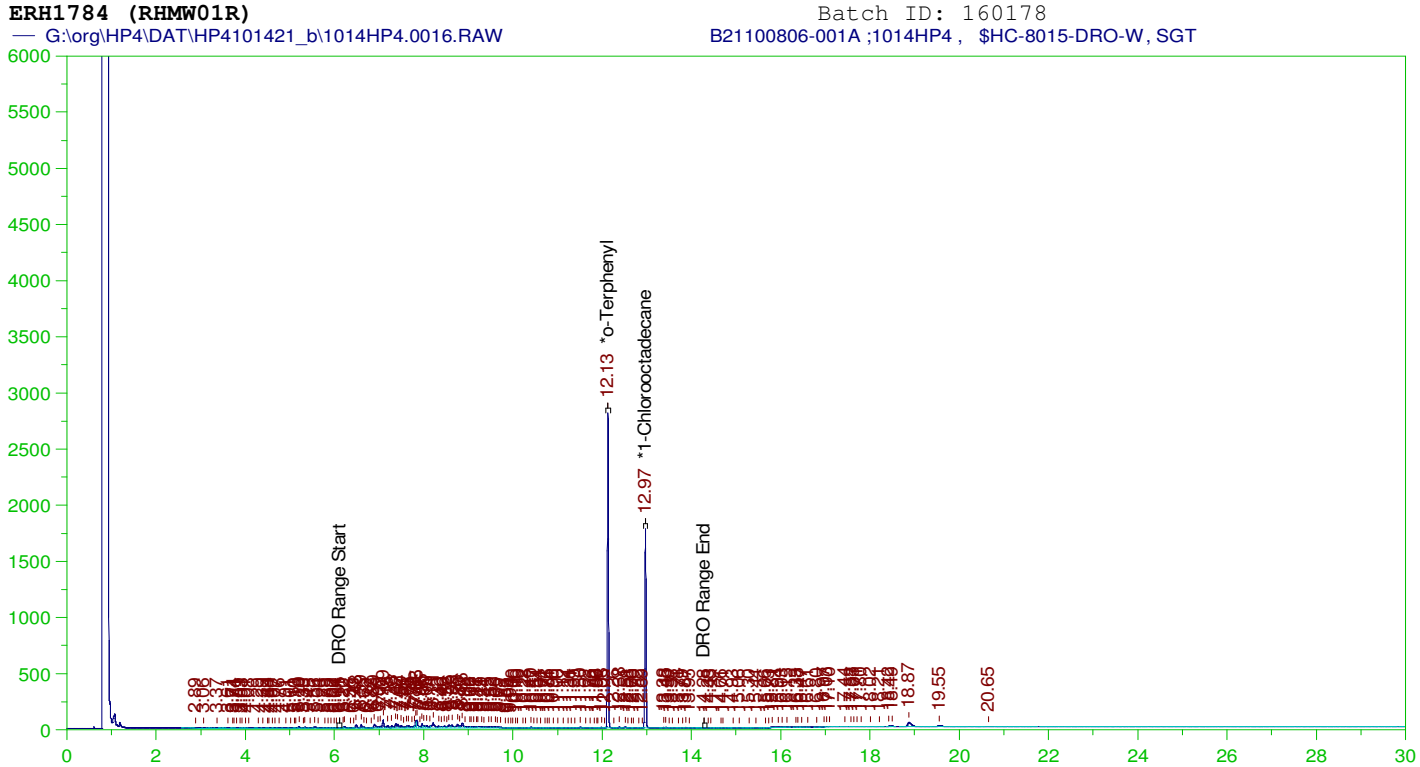
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.127 | .19 | .127 | 66.98 | - |
| *1-Chlorooctadecane | 12.967 | .19 | .094 | 49.38 | - |

DRO Area:2.056861E+07 DRO Amount: 0.7490071
TEH Area:2.162257E+07 TEH Amount: 0.7873871

G:\org\HP4\dat\HP4101421_b\Review\015_B21100806-002A_DS_8015-24-MZ-L#.xls

**ERH1784 (RHMW01R)** Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0016.RAW
Date & Time Acquired: 10/14/2021 7:40:55 PM
Method File: G:\Org\HP4\methods\DR_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | .19 | .155 | 81.81 | - |
| *1-Chlorooctadecane | 12.966 | .19 | .107 | 56.49 | - |

DRO Area:3262404 DRO Amount: 0.1188006
TEH Area:3836047 TEH Amount: 0.1396898

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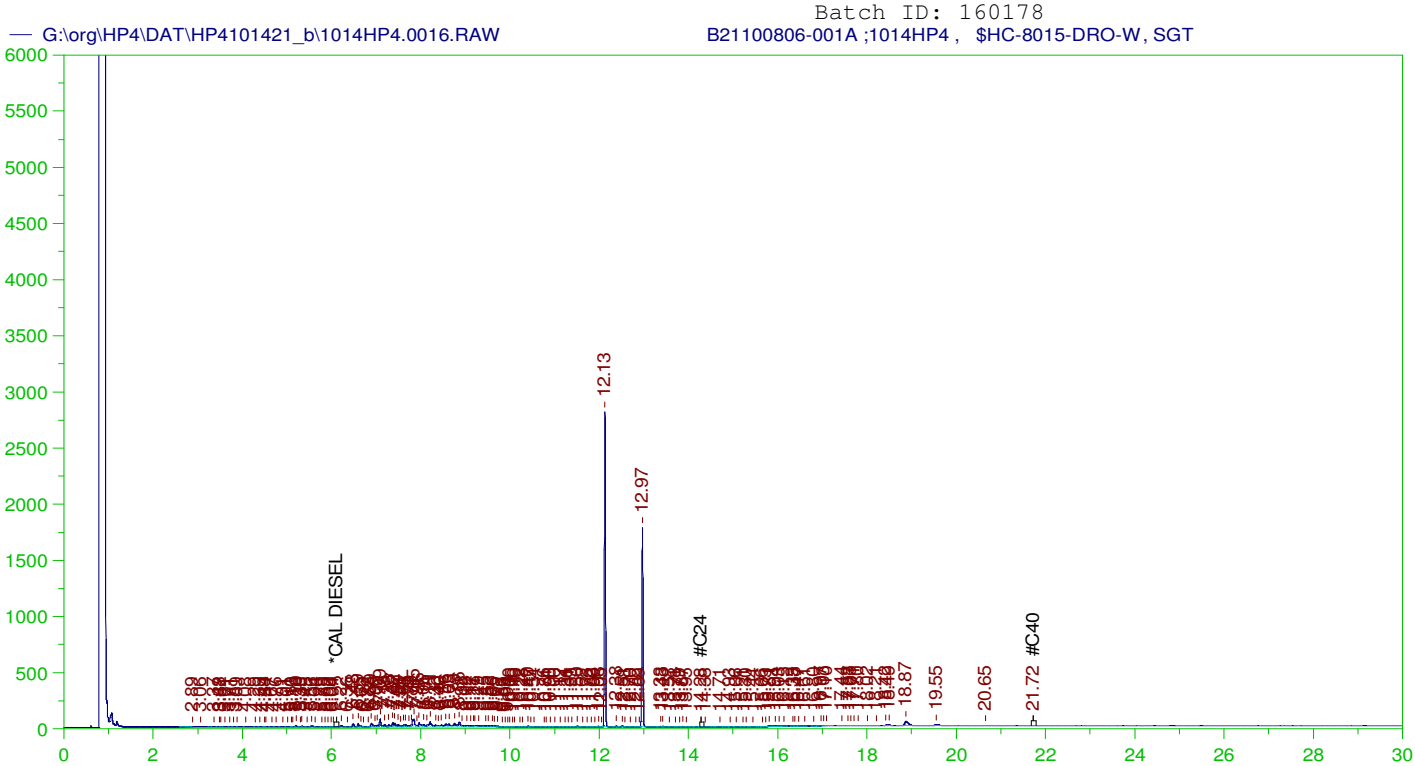
Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-001A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0016.RAW
Date & Time Acquired: 10/14/2021 7:40:55 PM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.25 to 21.78

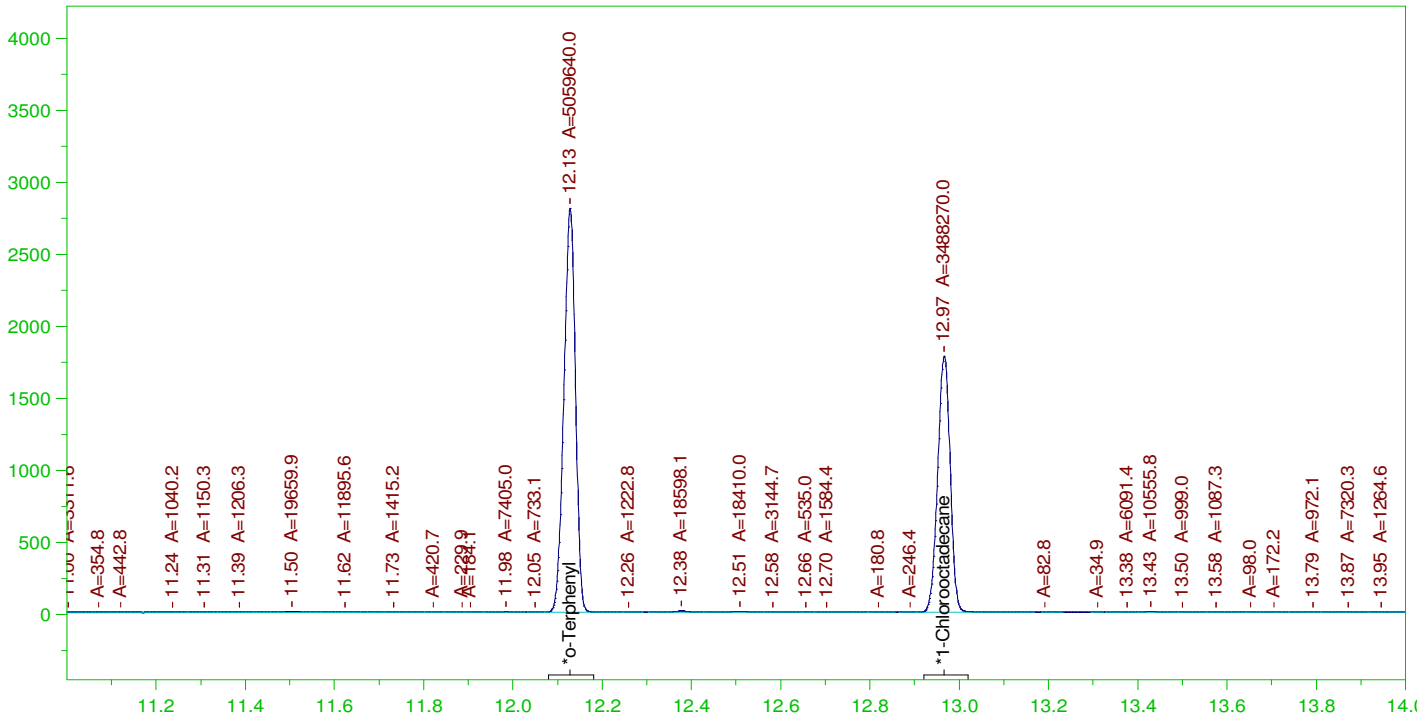
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:352937.4 RRO AMOUNT: 1.363815E-02

G:\org\HP4\dat\HP4101421_b\Review\016_B21100806-001A_DR_8015-OILS-AB-L%.xls

**ERH1784 (RHMW01R)** Batch ID: 160178

— G:\org\HP4\DAT\HP4101421_b\1014HP4.0016.RAW B21100806-001A ;1014HP4 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0016.RAW
Date & Time Acquired: 10/14/2021 7:40:55 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

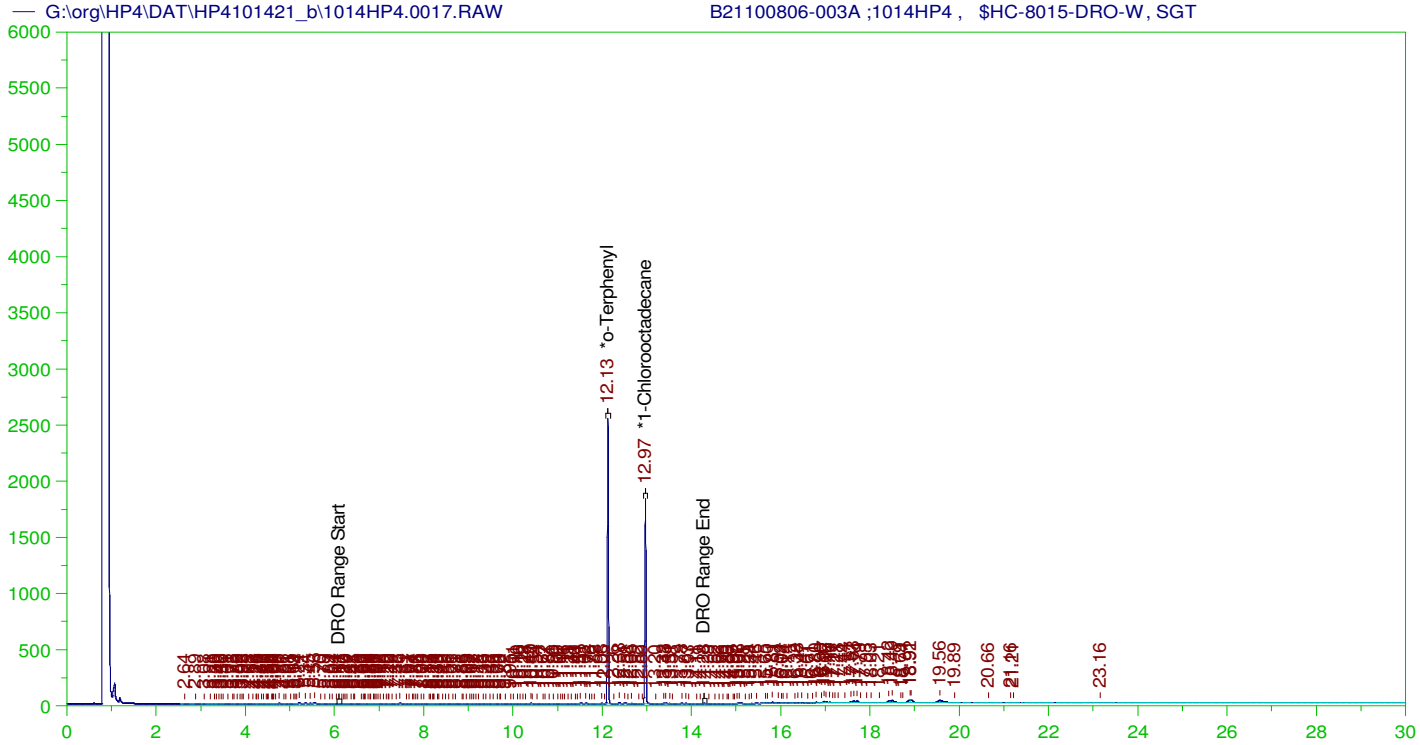
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | .19 | .155 | 81.69 | - |
| *1-Chlorooctadecane | 12.966 | .19 | .107 | 56.32 | - |

DRO Area:3229398 DRO Amount: 0.1175987
TEH Area:3800082 TEH Amount: 0.1383802

G:\org\HP4\dat\HP4101421_b\Review\016_B21100806-001A_DS_8015-24-MZ-L#.xls

**ERH1790 (RHMW03)** Batch ID: 160178

— G:\org\HP4\DAT\HP4101421_b\1014HP4.0017.RAW B21100806-003A ;1014HP4 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-003A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0017.RAW
Date & Time Acquired: 10/14/2021 8:26:27 PM
Method File: G:\Org\HP4\methods\DR_8015-101417-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

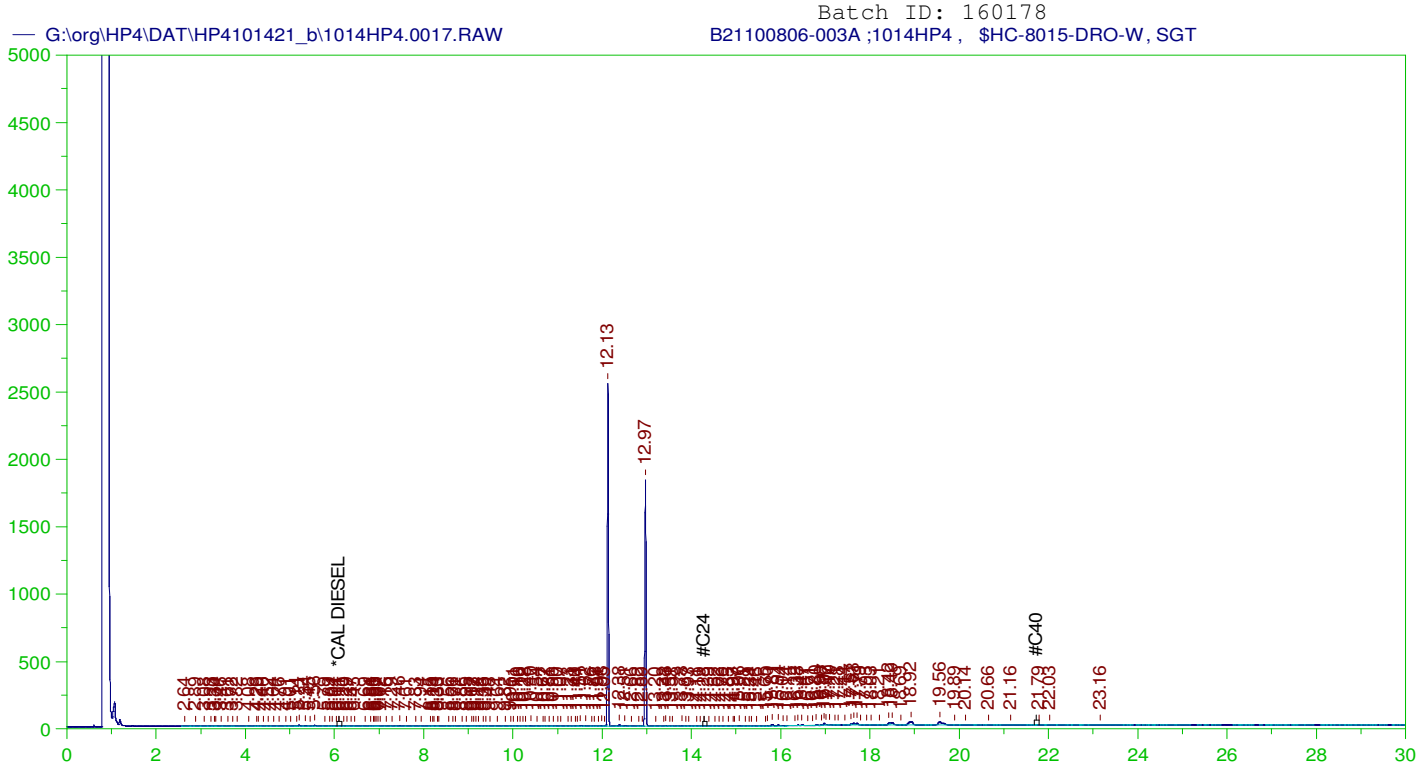
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.127 | .19 | .141 | 73.83 | - |
| *1-Chlorooctadecane | 12.966 | .19 | .111 | 58.32 | - |

DRO Area:483758.2 DRO Amount: 1.769997E-02
TEH Area:1781574 TEH Amount: 6.518503E-02

G:\org\HP4\dat\HP4101421_b\Review\017_B21100806-003A_DR_8015-101417-24-MZ-L%.xls

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-003A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0017.RAW
Date & Time Acquired: 10/14/2021 8:26:27 PM
Method File: G:\Org\HP4\methods\DR_8015-101417-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.25 to 21.78

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:1026331 RRO AMOUNT: 3.984818E-02

G:\org\HP4\dat\HP4101421_b\Review\017_B21100806-003A_DR_8015-101417-OILS-AB-L%.xls

**ERH1790 (RHMW03)** Batch ID: 160178

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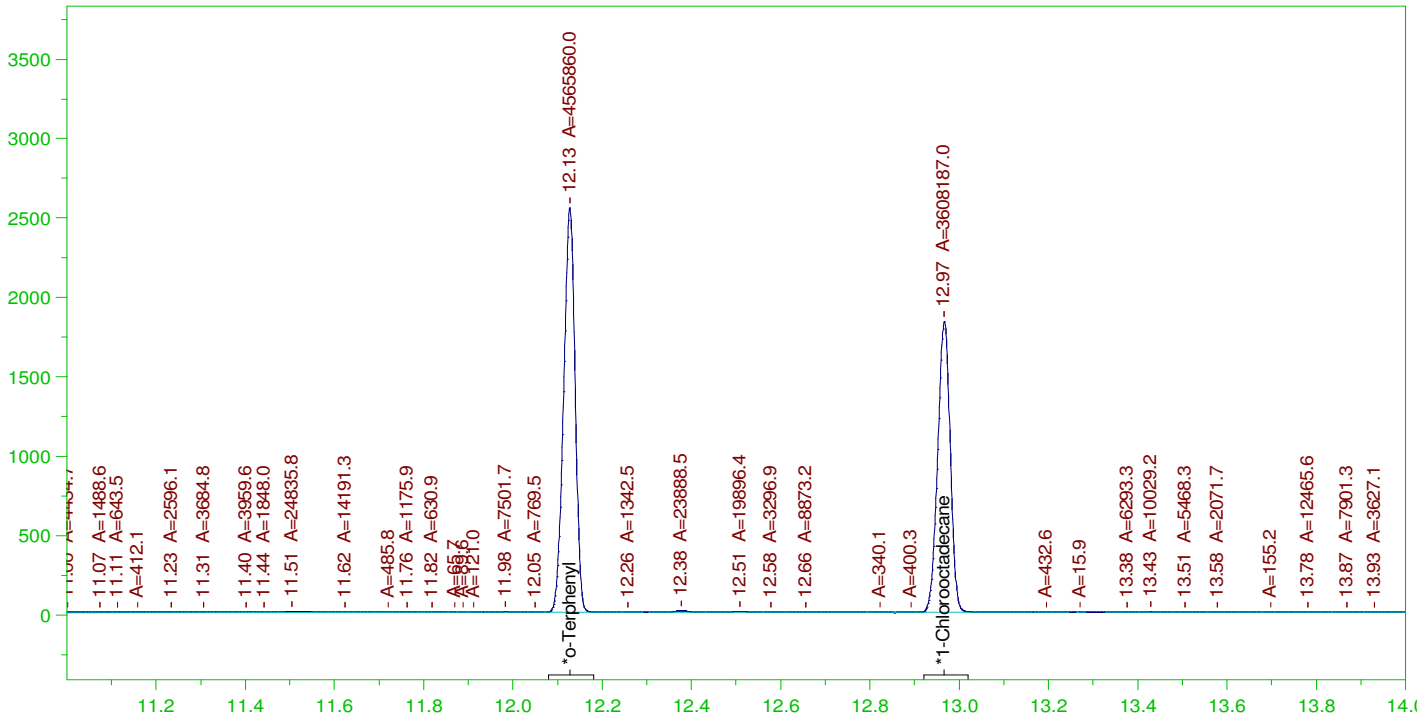



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

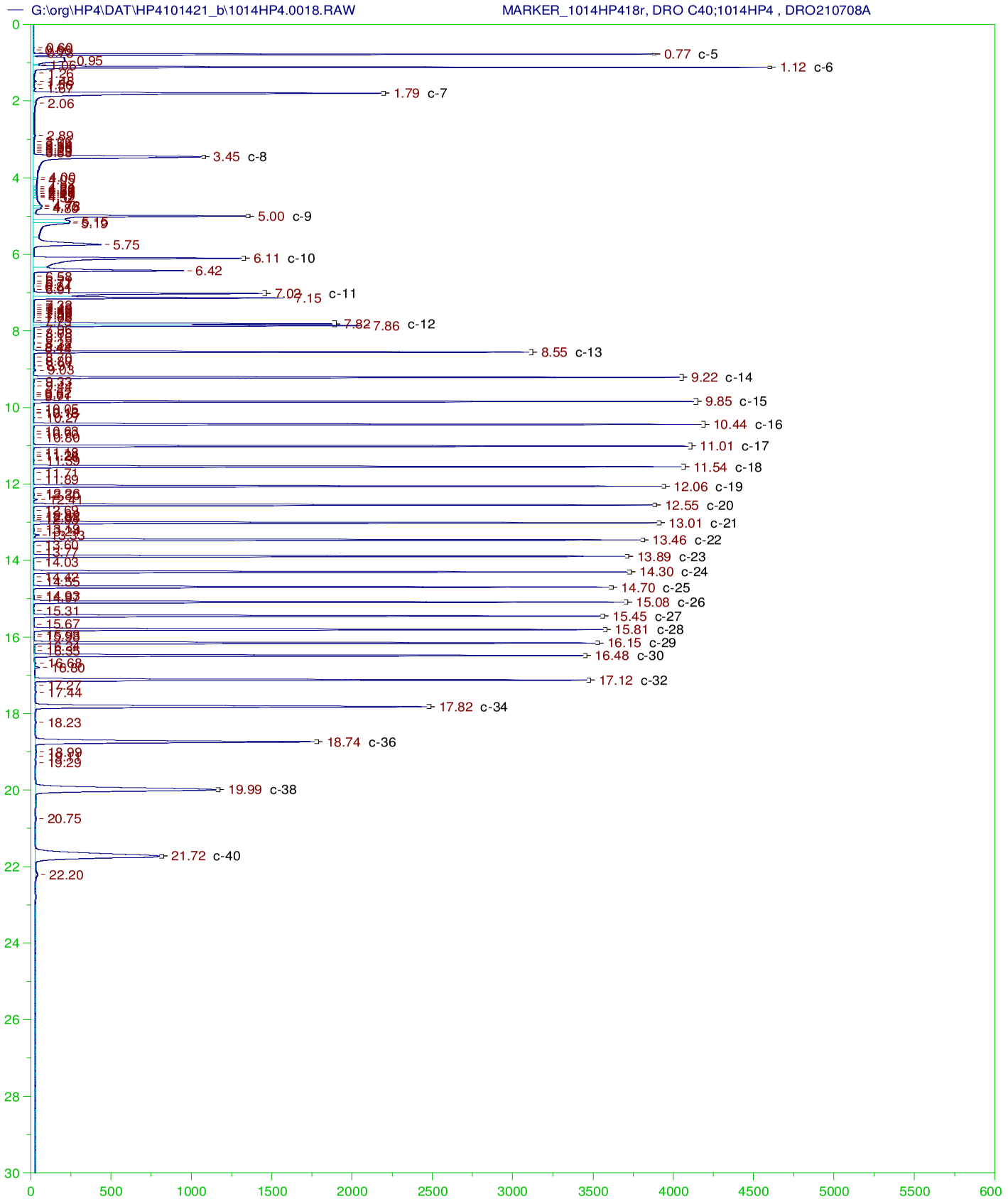
Sample Name: B21100806-003A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0017.RAW
Date & Time Acquired: 10/14/2021 8:26:27 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.127 | .19 | .14 | 73.72 | - |
| *1-Chlorooctadecane | 12.966 | .19 | .111 | 58.26 | - |

DRO Area:437411.4 DRO Amount: 1.600421E-02
TEH Area:1517035 TEH Amount: 5.550598E-02

G:\org\HP4\dat\HP4101421_b\Review\017_B21100806-003A_DS_8015-24-MZ-L#.xls


G:\org\HP4\DAT\HP4101421_b\1014HP4.0018.RAW
MARKER_1014HP418r, DRO C40;1014HP4 , DRO210708A
0.77 c-5
1.12 c-6
1.79 c-7
3.45 c-8
5.00 c-9
6.11 c-10
7.15 c-11
7.86 c-12
8.55 c-13
9.22 c-14
9.85 c-15
10.44 c-16
11.01 c-17
11.54 c-18
12.06 c-19
12.55 c-20
13.01 c-21
13.46 c-22
13.89 c-23
14.30 c-24
14.70 c-25
15.08 c-26
15.45 c-27
15.81 c-28
16.15 c-29
16.48 c-30
17.12 c-32
17.82 c-34
18.74 c-36
19.99 c-38
21.72 c-40
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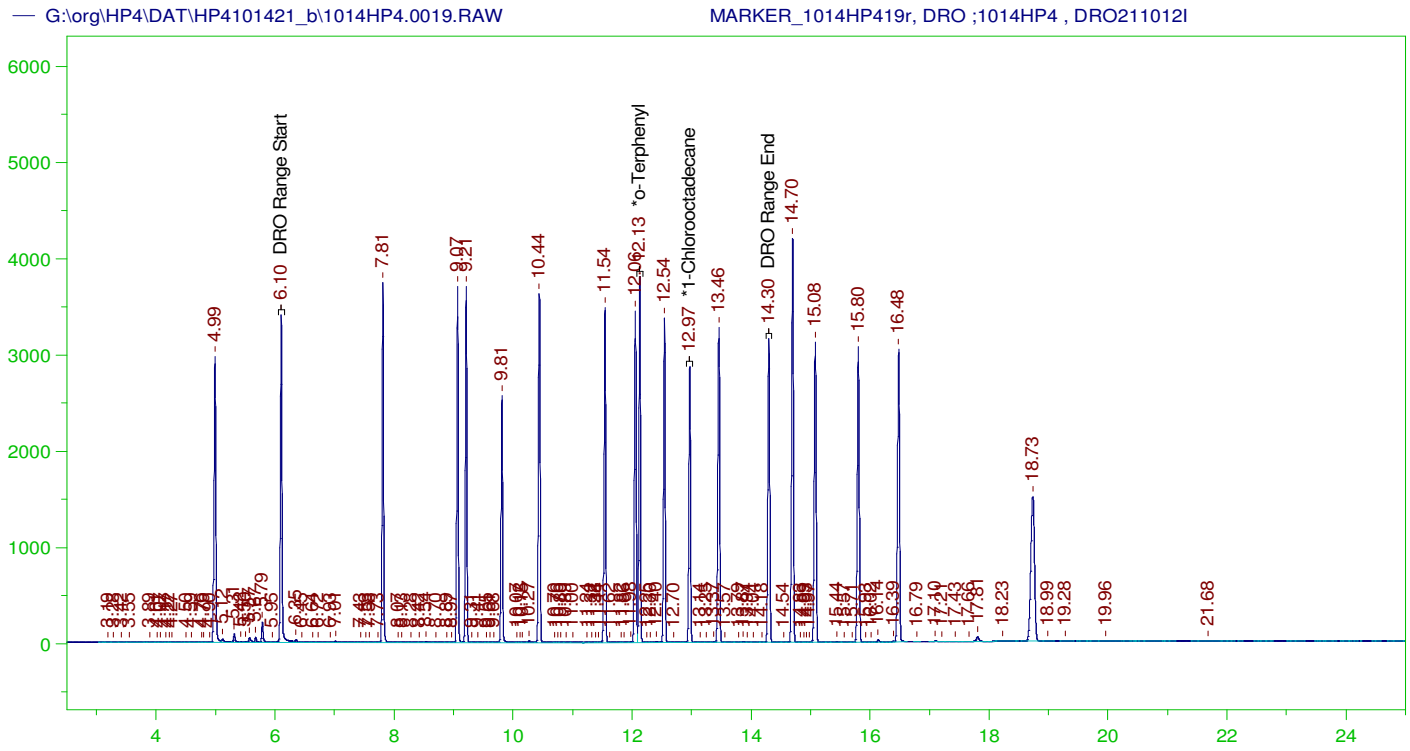



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

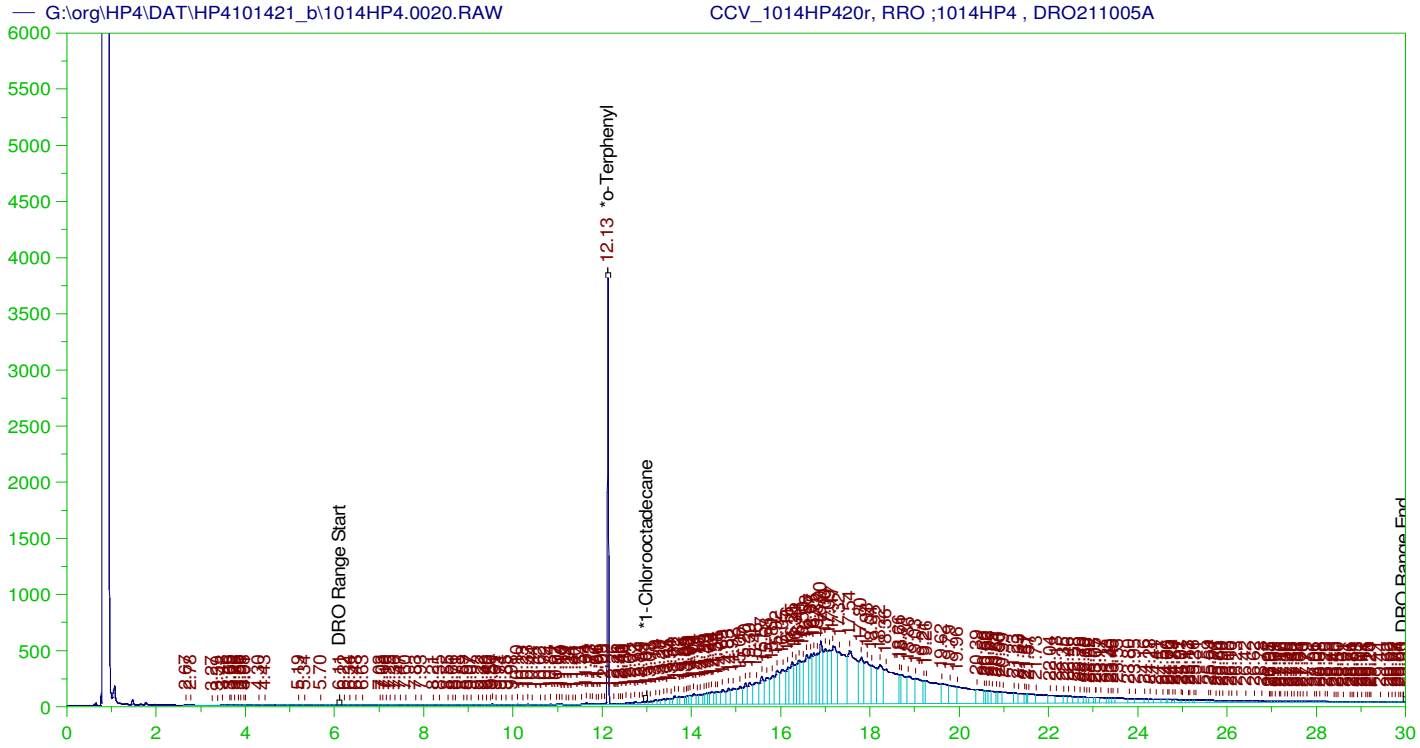
Sample Name: MARKER_1014HP419r, DRO ;1014HP4 , DRO211012I
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0019.RAW
Date & Time Acquired: 10/14/2021 9:56:56 PM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.13 | .2 | .225 | 112.34 | - |
| *1-Chlorooctadecane | 12.968 | .2 | .185 | 92.55 | - |

DRO Area:7.068126E+07 DRO Amount: 2.715424
TEH Area:1.143222E+08 TEH Amount: 4.392015

G:\org\HP4\dat\HP4101421_b\Review\019_MARKER_1014HP419r_DC_8015-24-MZ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP420r, RRO ;1014HP4 , DRO211005A
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0020.RAW
Date & Time Acquired: 10/14/2021 10:42:13 PM
Method File: G:\Org\HP4\methods\DC_8015-OIL-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.06 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | 221.593 | 110.8 | - |
| *1-Chlorooctadecane | 13.007 | 200. | 4.248 | 2.12 | - |

DRO Area:1.236474E+08 DRO Amount: 5040.75
TEH (Oil Range) Area:1.23694E+08 TEH (Oil Range) Amount: 5042.65

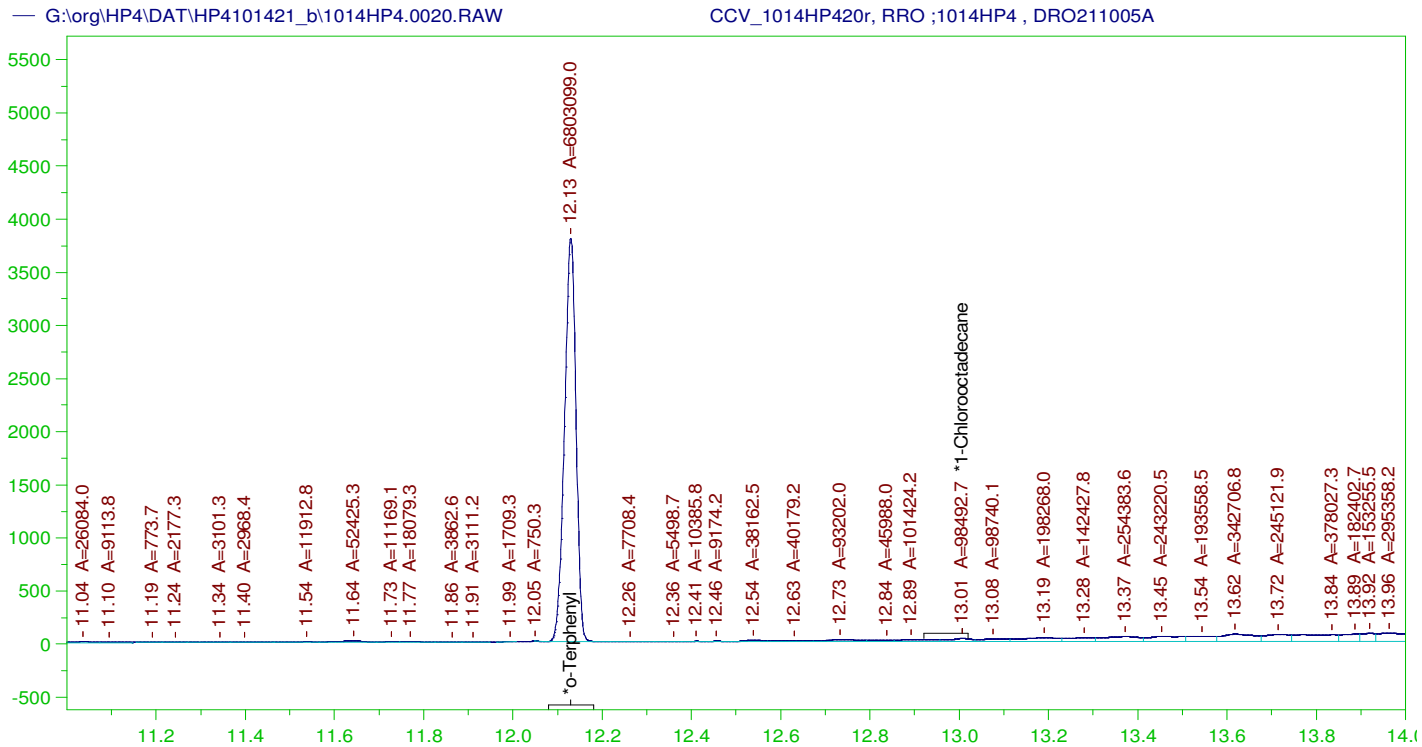
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5042.65 | 100.85 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | 221.593 | 110.8 | 85-115 |
| *1-Chlorooctadecane | 13.007 | 200. | 4.248 | 2.12 | 85-115 |

AMN 10/19/2021

G:\org\HP4\dat\HP4101421_b\Review\020_CCV_1014HP420r_DC_8015-OIL-AB-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP420r, RRO ;1014HP4 , DRO211005A
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0020.RAW
Date & Time Acquired: 10/14/2021 10:42:13 PM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.06 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | 219.677 | 109.84 | - |
| *1-Chlorooctadecane | 13.007 | 200. | 3.18 | 1.59 | - |

DRO Area:1.196512E+08 DRO Amount: 4877.838
TEH Area:1.196978E+08 TEH Amount: 4879.738

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4879.74 | 97.59 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | 219.677 | 109.84 | 85-115 |
| *1-Chlorooctadecane | 13.007 | 200. | 3.18 | 1.59 | 85-115 |

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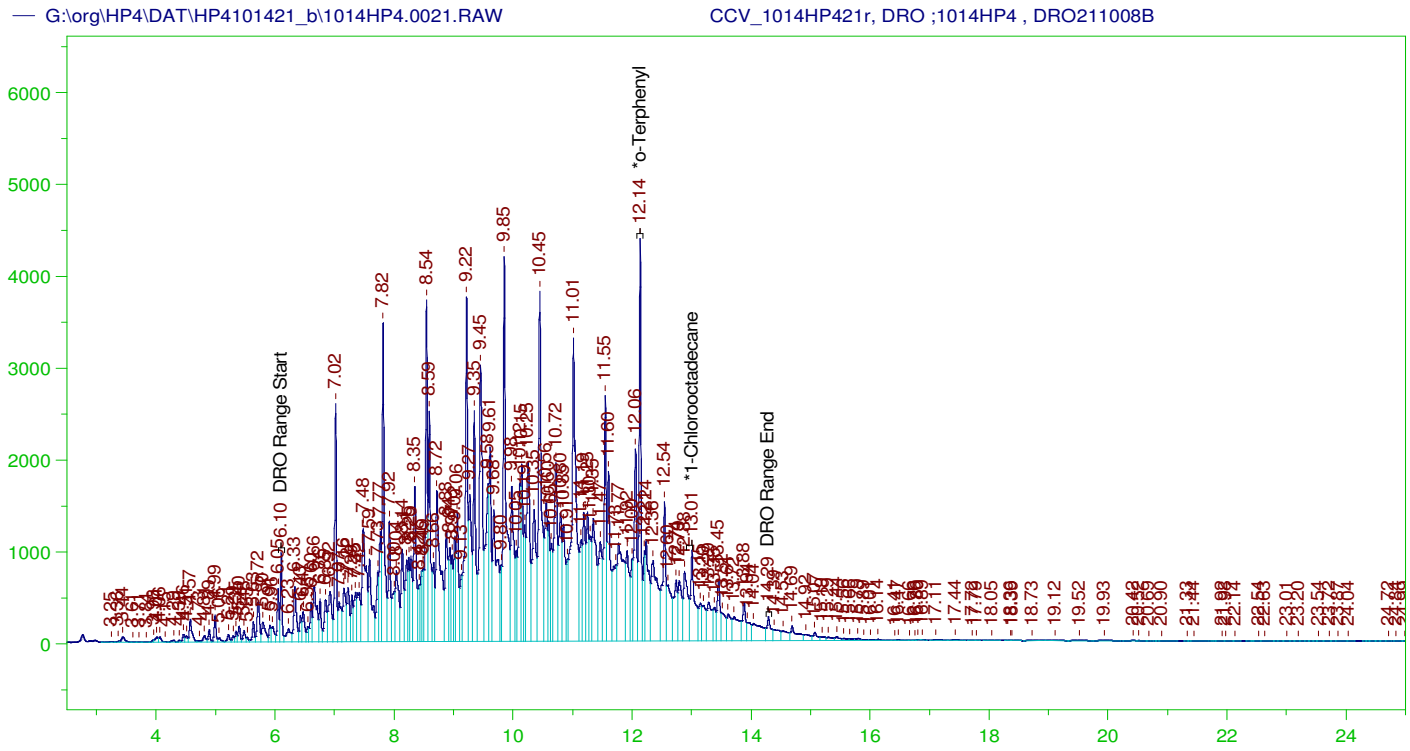


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP421r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0021.RAW
Date & Time Acquired: 10/14/2021 11:27:38 PM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | 335.812 | 167.91 | - |
| *1-Chlorooctadecane | 13.007 | 200. | 154.046 | 77.02 | - |

DRO Area:4.05082E+08 DRO Amount: 15562.39
TEH Area:4.208784E+08 TEH Amount: 16169.26

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0021.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16169.26 | 107.8 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | 335.812 | 167.91 | 85-115 |
| *1-Chlorooctadecane | 13.007 | 200. | 154.046 | 77.02 | 85-115 |

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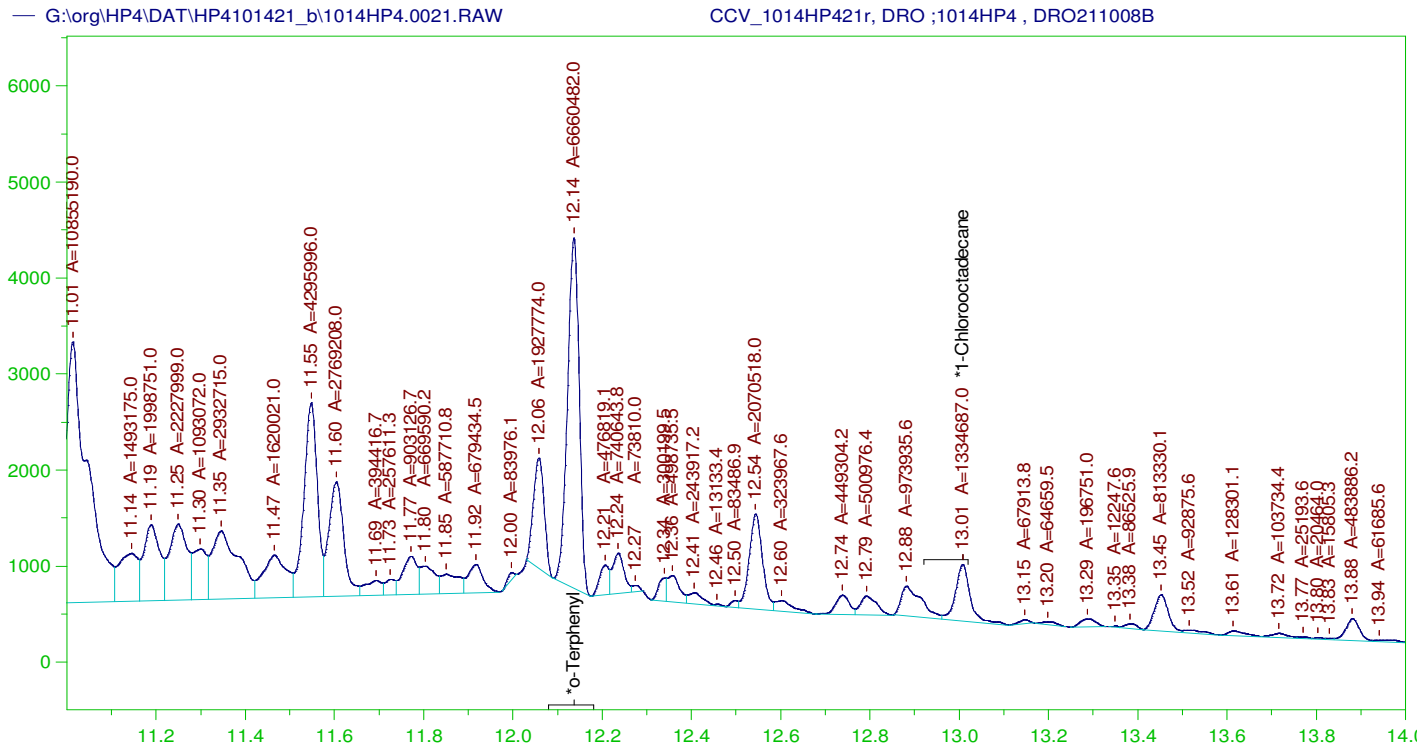



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP421r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0021.RAW
Date & Time Acquired: 10/14/2021 11:27:38 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | 215.072 | 107.54 | - |
| *1-Chlorooctadecane | 13.007 | 200. | 43.098 | 21.55 | - |

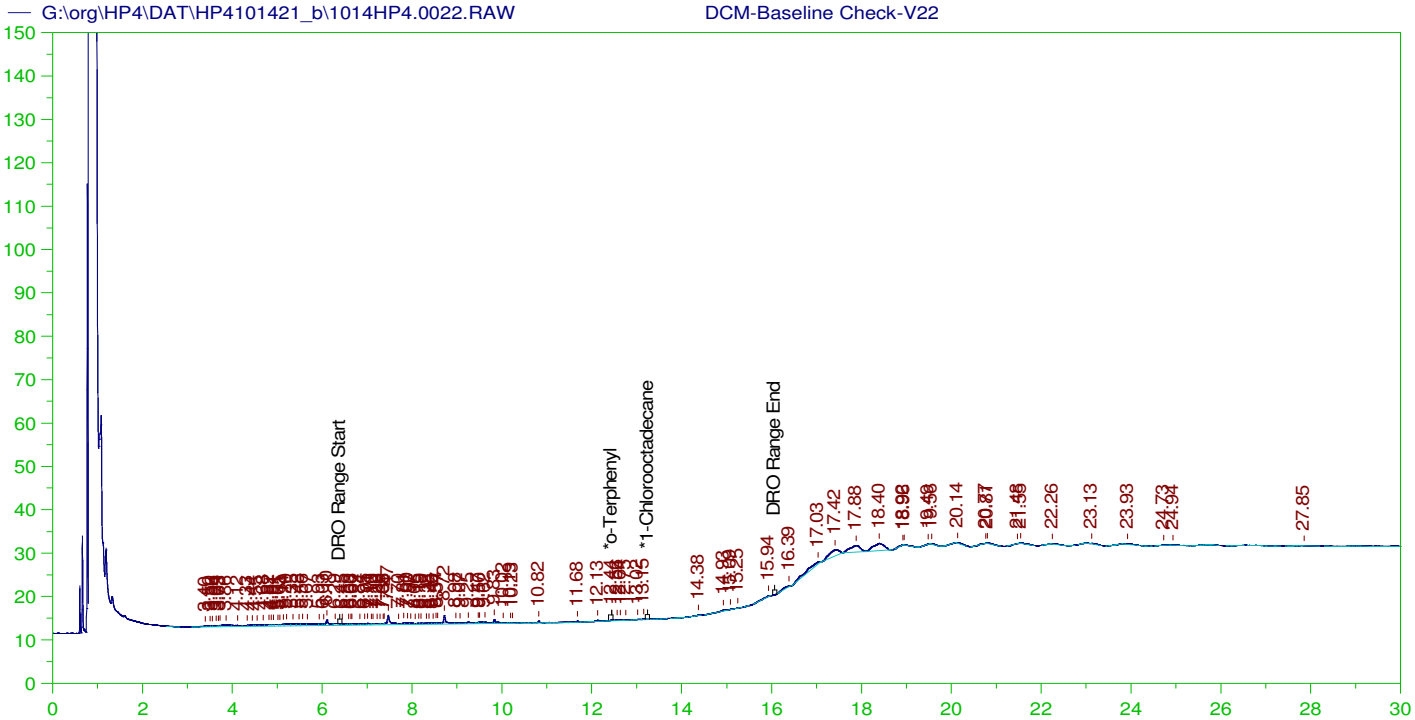
DRO Area:2.251792E+08 DRO Amount: 8650.909
TEH Area:2.349819E+08 TEH Amount: 9027.506

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0021.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9027.51 | 60.18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | 215.072 | 107.54 | 85-115 |
| *1-Chlorooctadecane | 13.007 | 200. | 43.098 | 21.55 | 85-115 |

G:\org\HP4\dat\HP4101421_b\Review\021_CCV_1014HP421r_DS_8015-24-MZ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V22
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0022.RAW
Date & Time Acquired: 10/15/2021 12:12:55 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.34 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.443 | 200. | .028 | .01 | - |
| *1-Chlorooctadecane | 29.937 | 200. | . | . | - |

DRO Area:91401.77 DRO Amount: 3.511462
TEH Area:279159.5 TEH Amount: 10.72472

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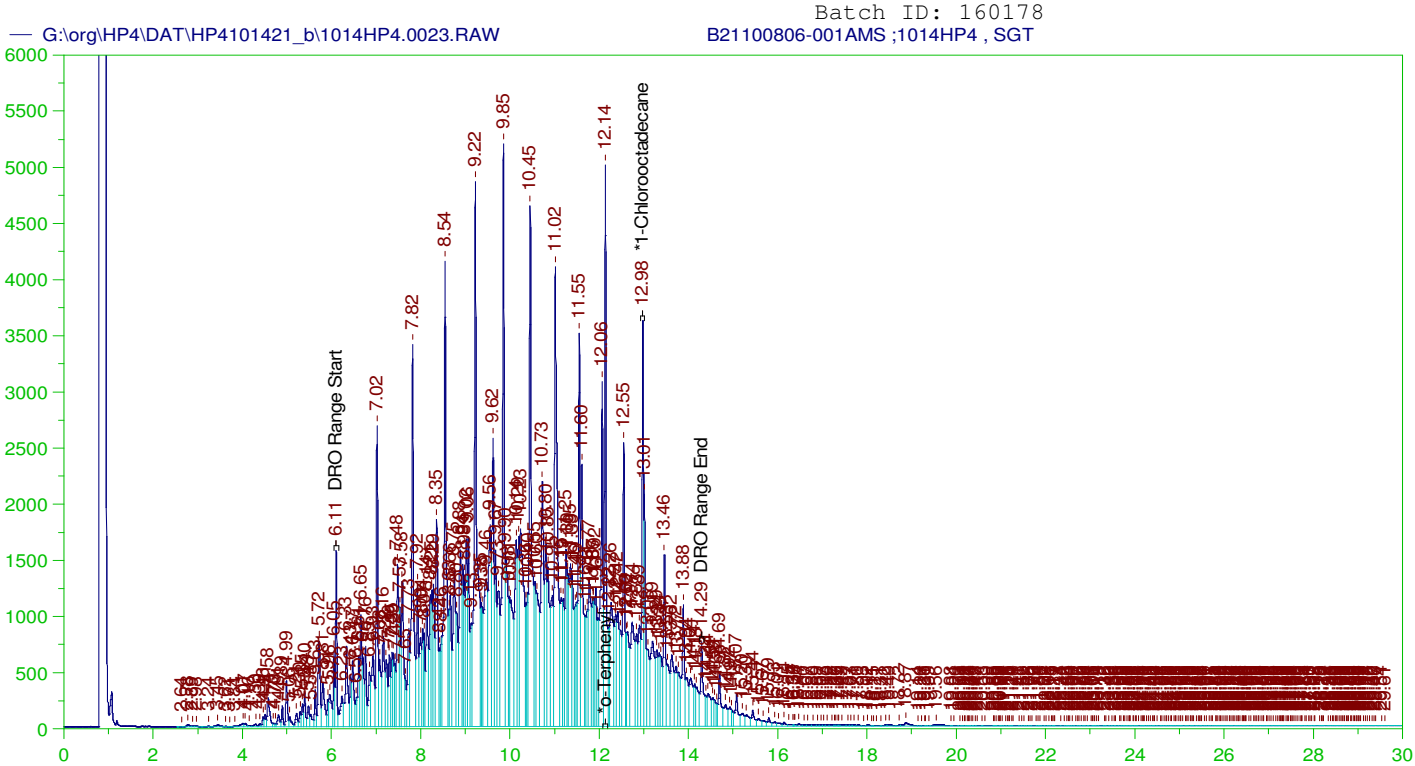


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001AMS ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0023.RAW
Date & Time Acquired: 10/15/2021 12:58:19 AM
Method File: G:\Org\HP4\methods\D3_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.138 | .381 | .829 | 217.59 | - |
| *1-Chlorooctadecane | 12.975 | .381 | .544 | 142.68 | - |

DRO Area:4.994734E+08 DRO Amount: 36.54993
TEH Area:5.320182E+08 TEH Amount: 38.93145

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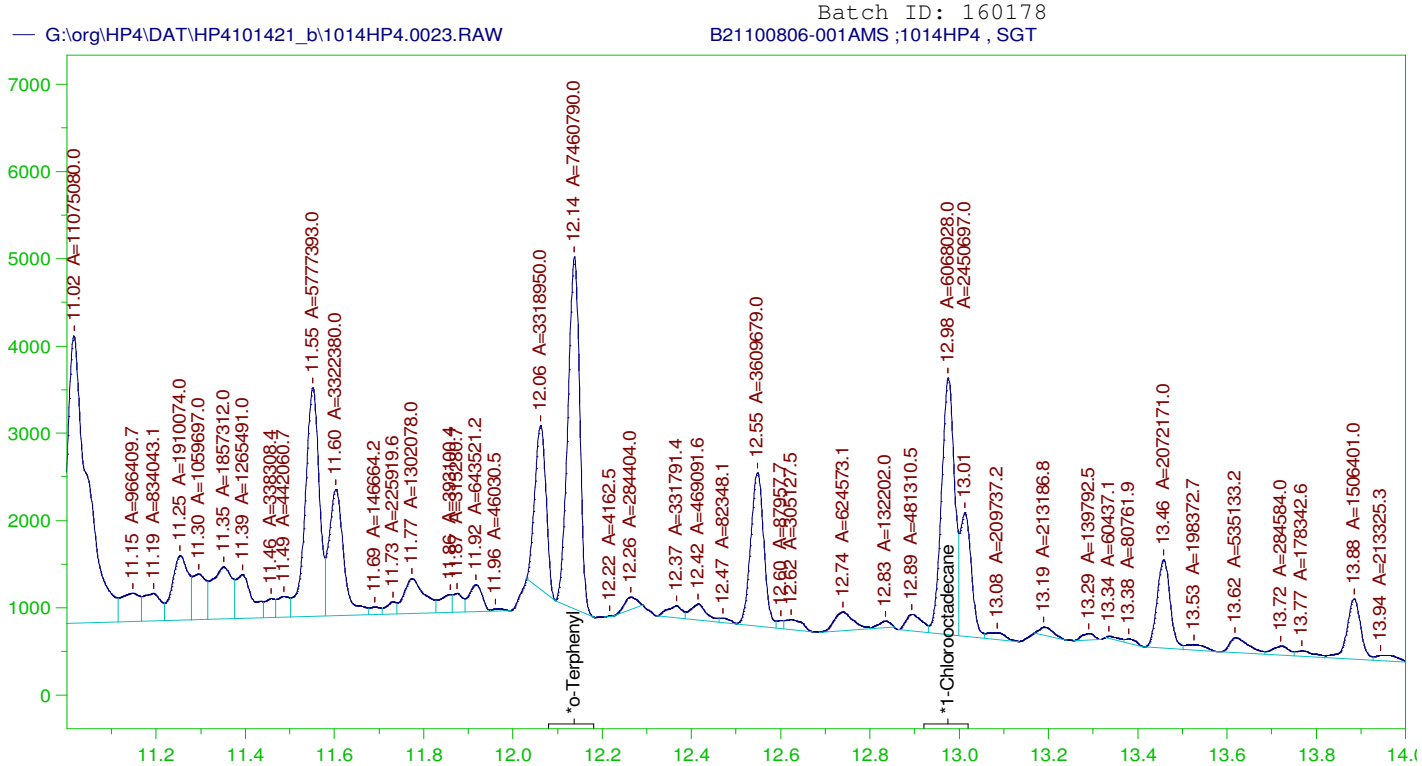
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001AMS ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0023.RAW
Date & Time Acquired: 10/15/2021 12:58:19 AM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.138 | .381 | .459 | 120.46 | - |
| *1-Chlorooctadecane | 12.975 | .381 | .373 | 97.97 | - |

DRO Area:2.379635E+08 DRO Amount: 17.41344
TEH Area:2.526712E+08 TEH Amount: 18.4897

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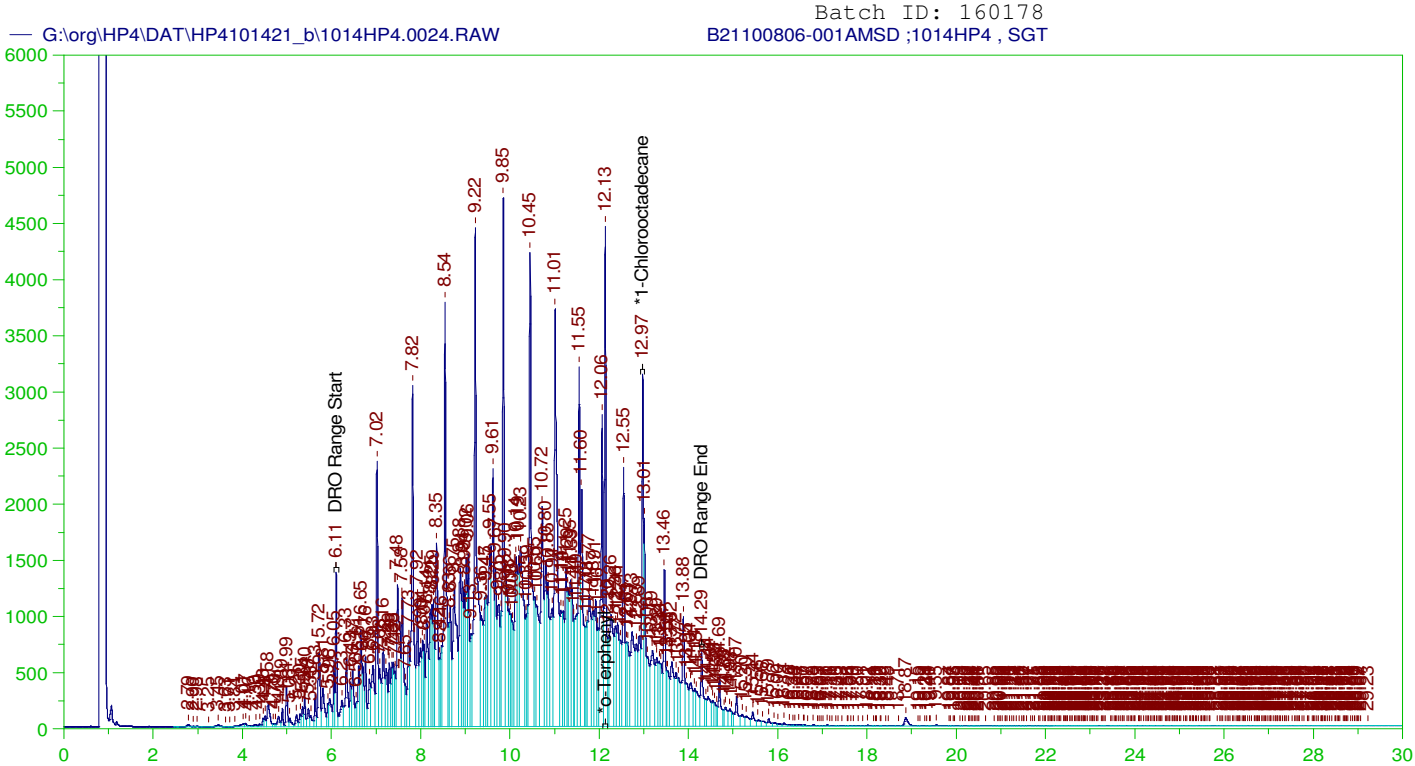
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001AMSD ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0024.RAW
Date & Time Acquired: 10/15/2021 1:43:44 AM
Method File: G:\Org\HP4\methods\D3_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.134 | .381 | .705 | 185.16 | - |
| *1-Chlorooctadecane | 12.973 | .381 | .471 | 123.56 | - |

DRO Area:4.48162E+08 DRO Amount: 32.79511
TEH Area:4.769149E+08 TEH Amount: 34.89916

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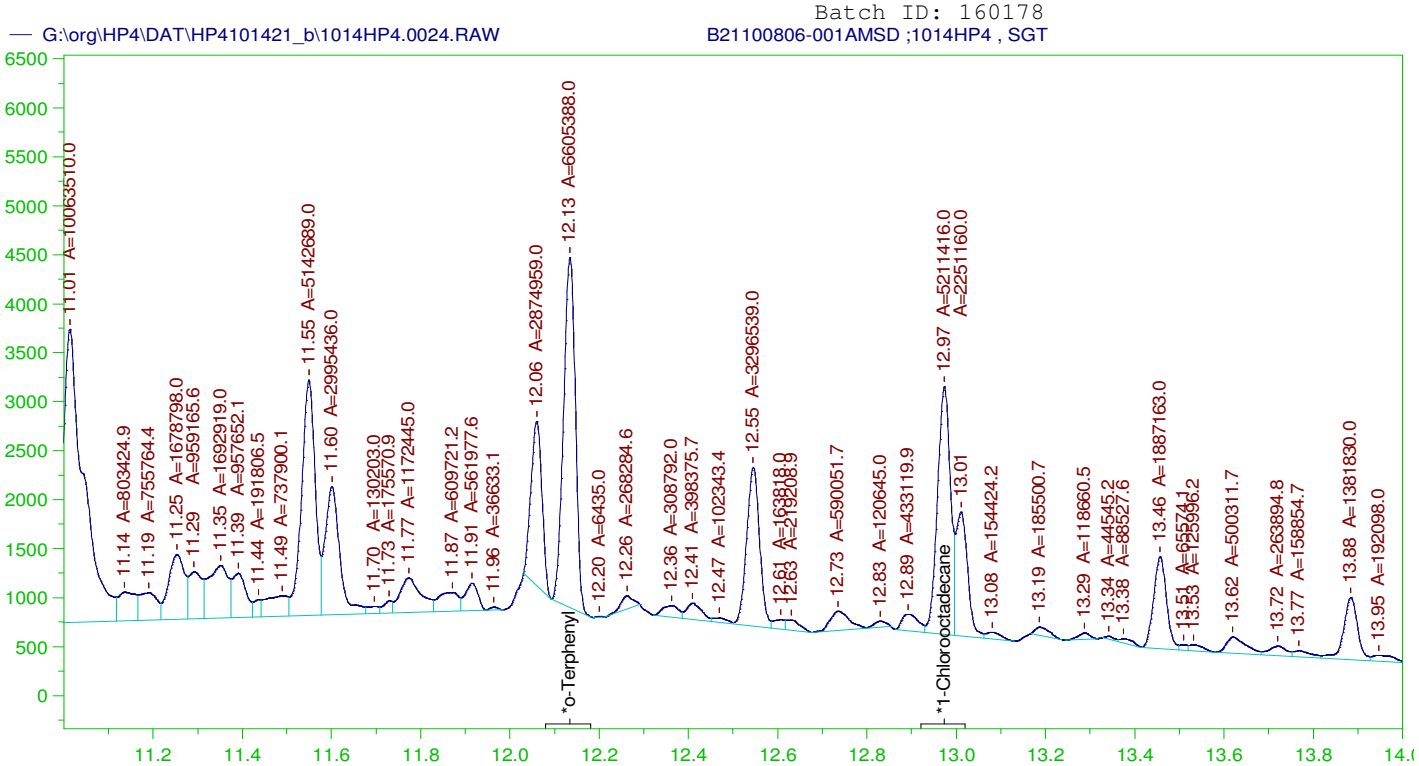



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

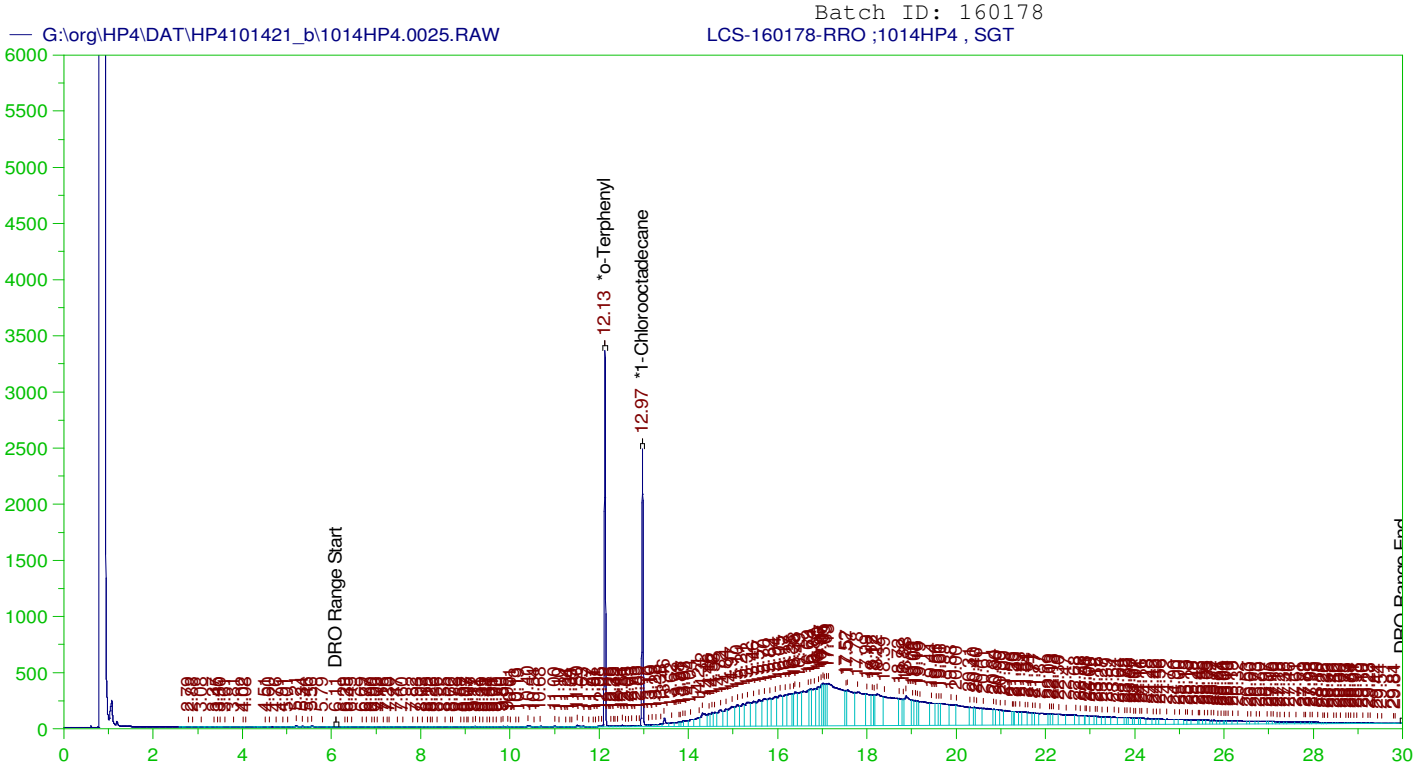
Sample Name: B21100806-001AMSD ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0024.RAW
Date & Time Acquired: 10/15/2021 1:43:44 AM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.134 | .381 | .406 | 106.65 | - |
| *1-Chlorooctadecane | 12.973 | .381 | .321 | 84.14 | - |

DRO Area:2.124523E+08 DRO Amount: 15.5466
TEH Area:2.256247E+08 TEH Amount: 16.51052

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178-RRO ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0025.RAW
Date & Time Acquired: 10/15/2021 2:29:09 AM
Method File: G:\Org\HP4\methods\D3_8015-OIL-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.06 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | .2 | .197 | 98.57 | - |
| *1-Chlorooctadecane | 12.968 | .2 | .161 | 80.33 | - |

DRO Area:1.192915E+08 DRO Amount: 4.863172
TEH (Oil Range) Area:1.193997E+08 TEH (Oil Range) Amount: 4.867586

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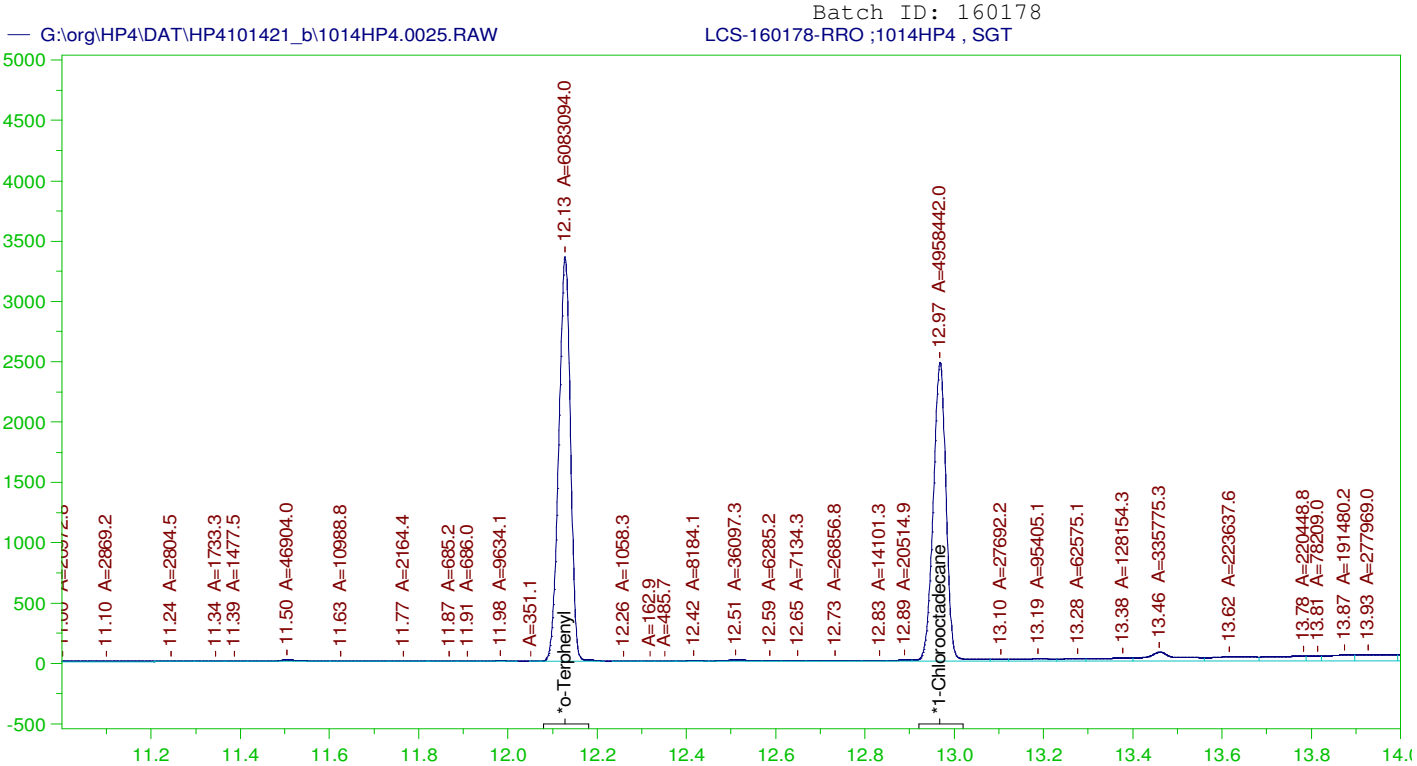
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160178-RRO ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0025.RAW
Date & Time Acquired: 10/15/2021 2:29:09 AM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.06 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | .2 | .196 | 98.21 | - |
| *1-Chlorooctadecane | 12.968 | .2 | .16 | 80.06 | - |

DRO Area:1.184016E+08 DRO Amount: 4.826892
TEH Area:1.185098E+08 TEH Amount: 4.831306

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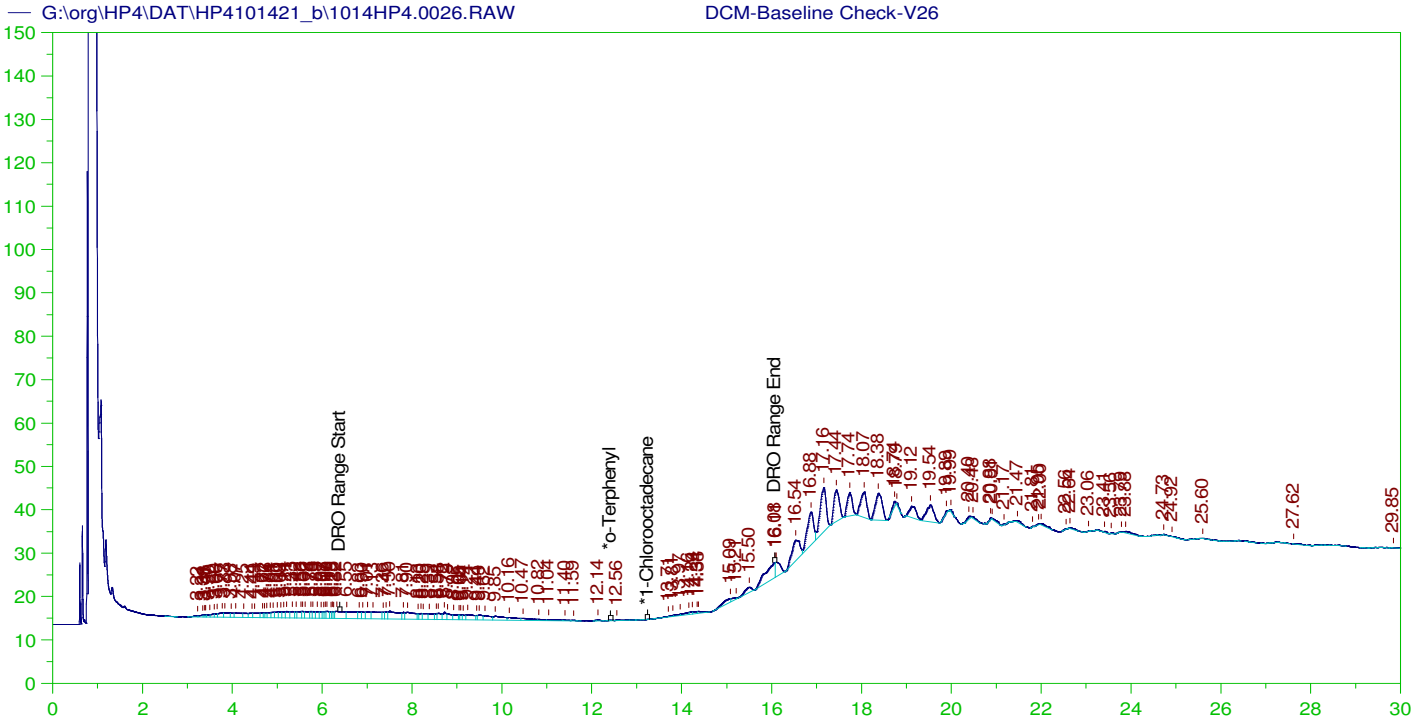


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V26
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0026.RAW
Date & Time Acquired: 10/15/2021 3:14:32 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.34 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.846 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.846 | 200. | . | . | - |

DRO Area:435144.3 DRO Amount: 16.71732
TEH Area:1269307 TEH Amount: 48.76408

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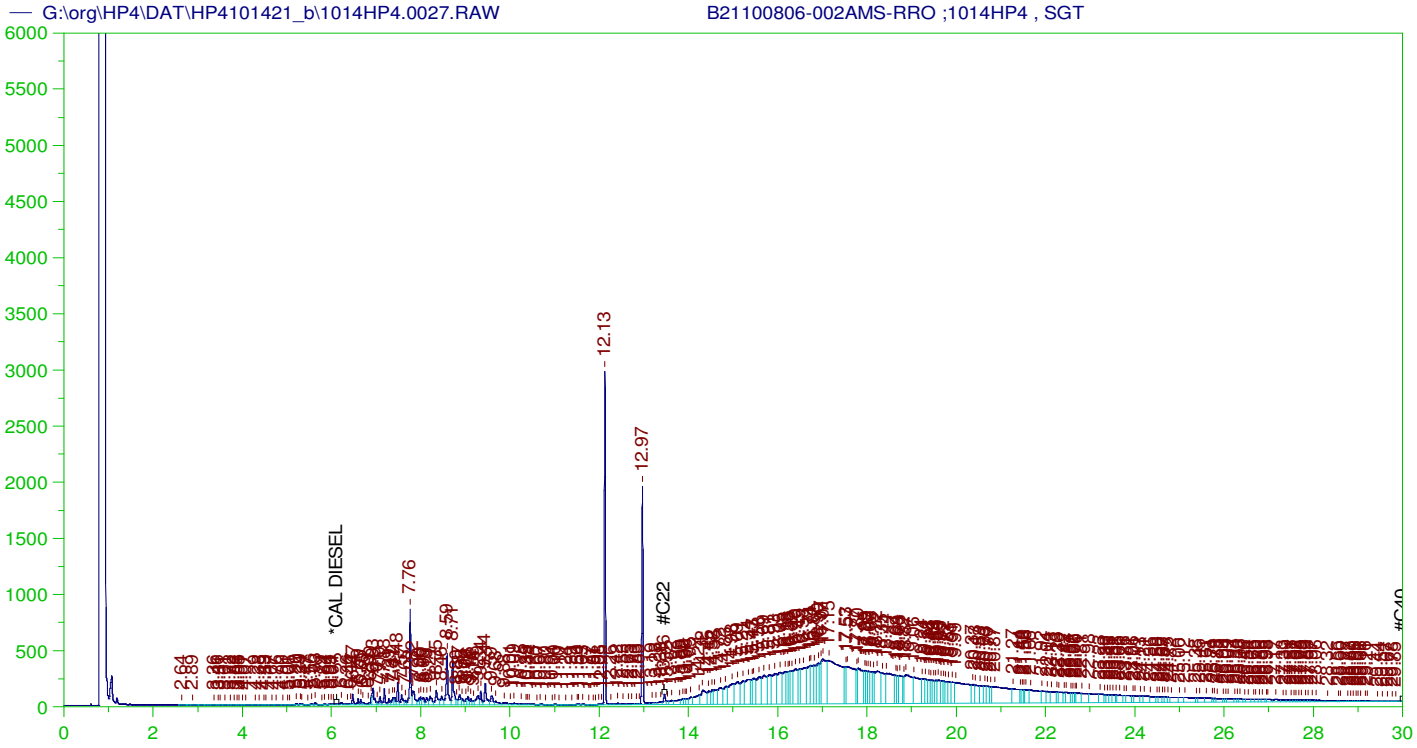


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002AMS-RRO ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0027.RAW
Date & Time Acquired: 10/15/2021 3:59:55 AM
Method File: G:\Org\HP4\methods\D3_8015-101427-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLEp.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Range Organics Calculations: 24529.56
Rt range for ~~Residual~~ TEH (Oil Range)Range Organics: 13.41 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ TEH (Oil Range) Area:1.229017E+08 ~~RRO~~ TEH (Oil Range)AMOUNT: 9.824217

AMN 10/19/2021

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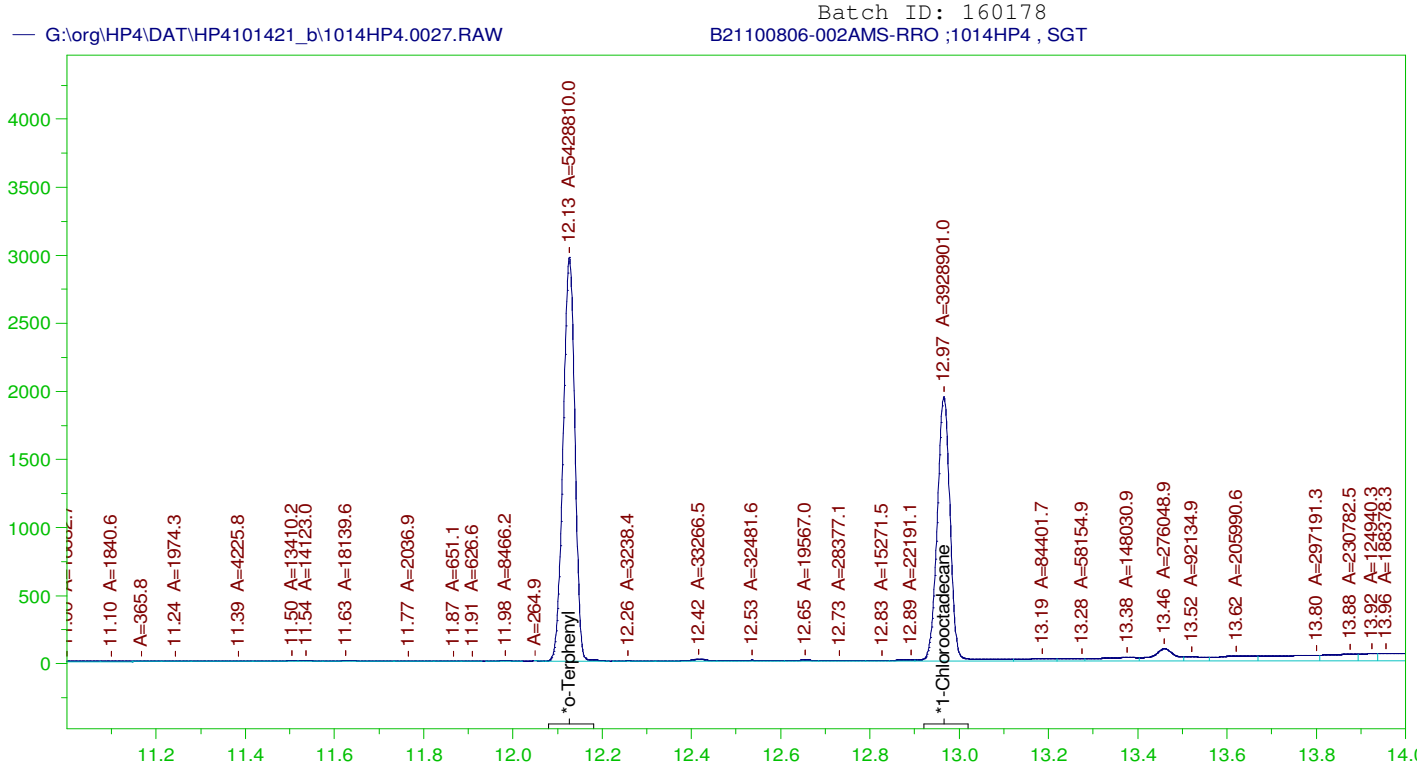
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002AMS-RRO ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0027.RAW
Date & Time Acquired: 10/15/2021 3:59:55 AM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.06 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.126 | .392 | .344 | 87.65 | - |
| *1-Chlorooctadecane | 12.965 | .392 | .249 | 63.43 | - |

DRO Area:1.360379E+08 DRO Amount: 10.87426
TEH Area:1.362985E+08 TEH Amount: 10.8951

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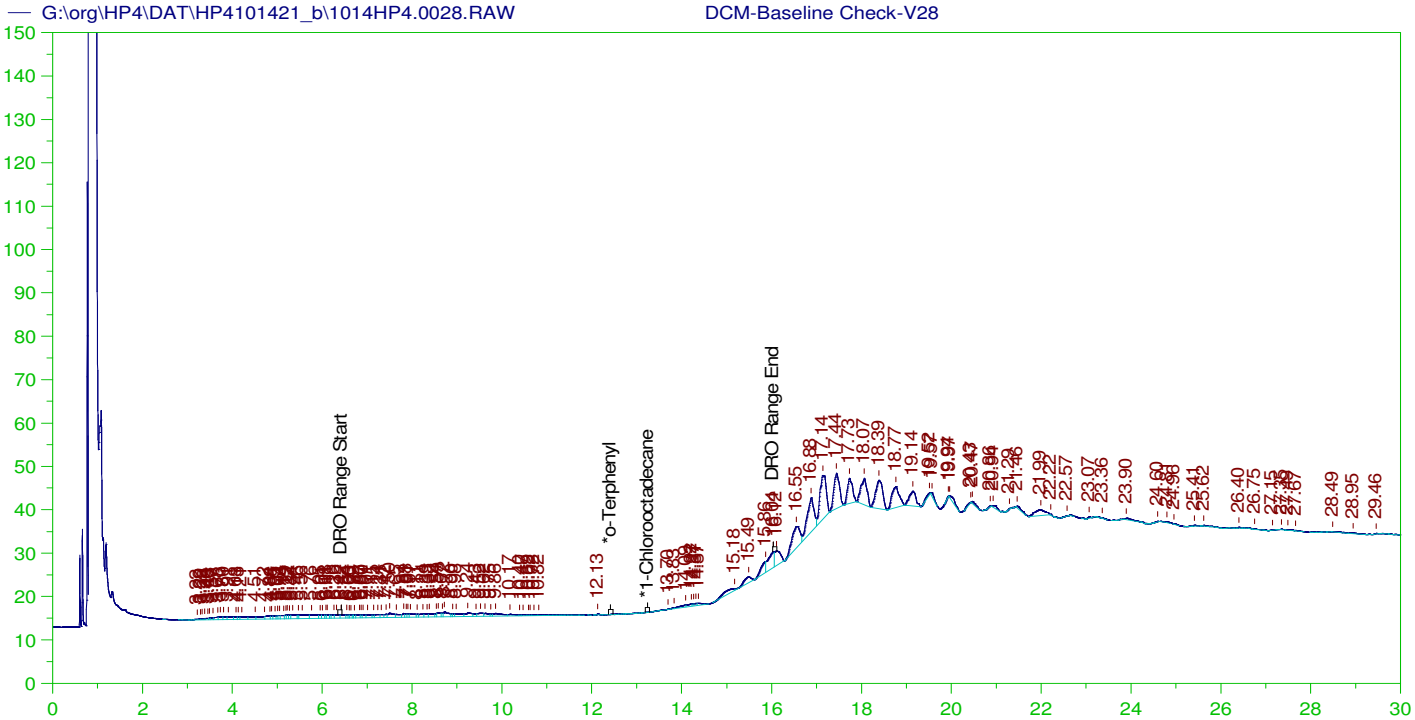


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V28
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0028.RAW
Date & Time Acquired: 10/15/2021 4:45:07 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.34 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.871 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.871 | 200. | . | . | - |

DRO Area:310081.8 DRO Amount: 11.91269
TEH Area:1101943 TEH Amount: 42.3343

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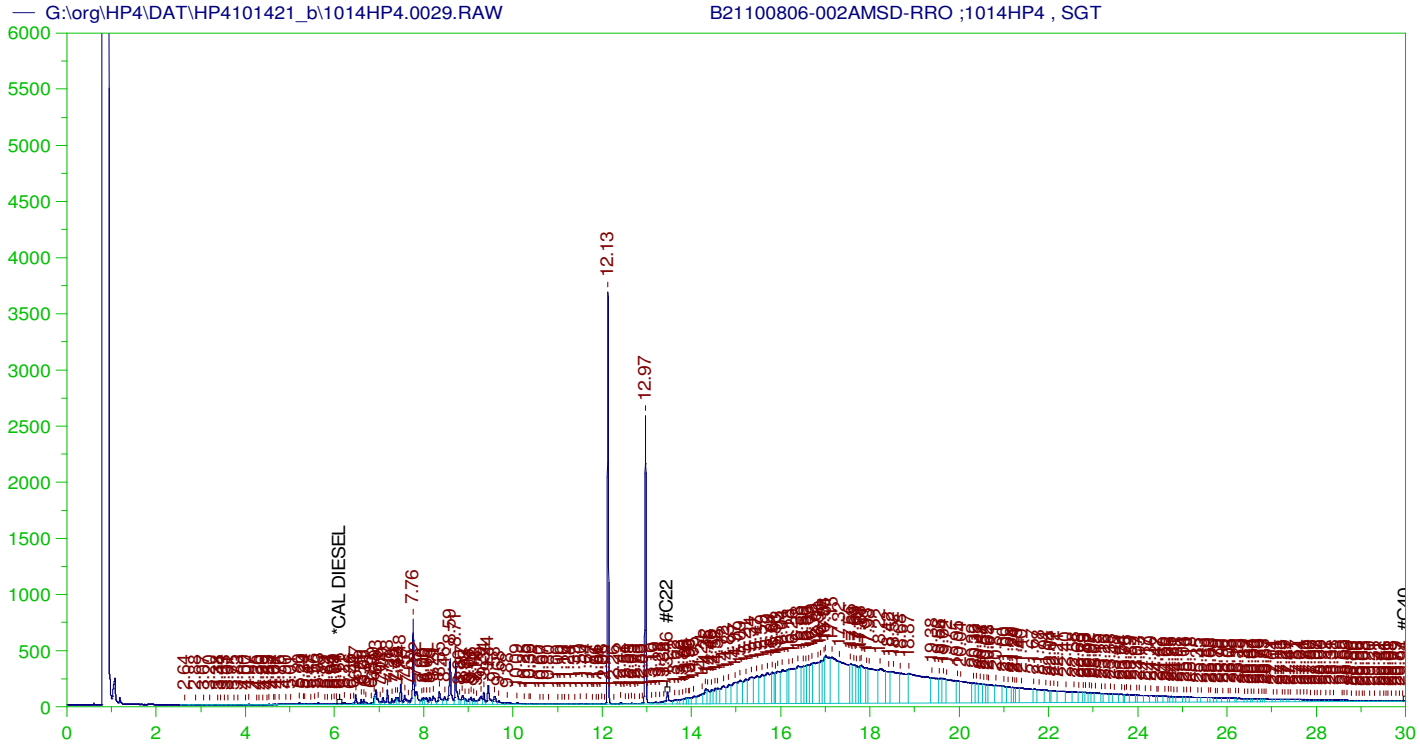


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002AMSD-RRO ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0029.RAW
Date & Time Acquired: 10/15/2021 5:30:23 AM
Method File: G:\Org\HP4\methods\D3_8015-101427-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLEp.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range)Range Organics Calculations: 24529.56
Rt range for ~~Residual~~ TEH (Oil Range)Range Organics: 13.41 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ TEH (Oil Range)Area:1.310089E+08 ~~RRO~~ TEH (Oil Range)AMOUNT: 10.47227

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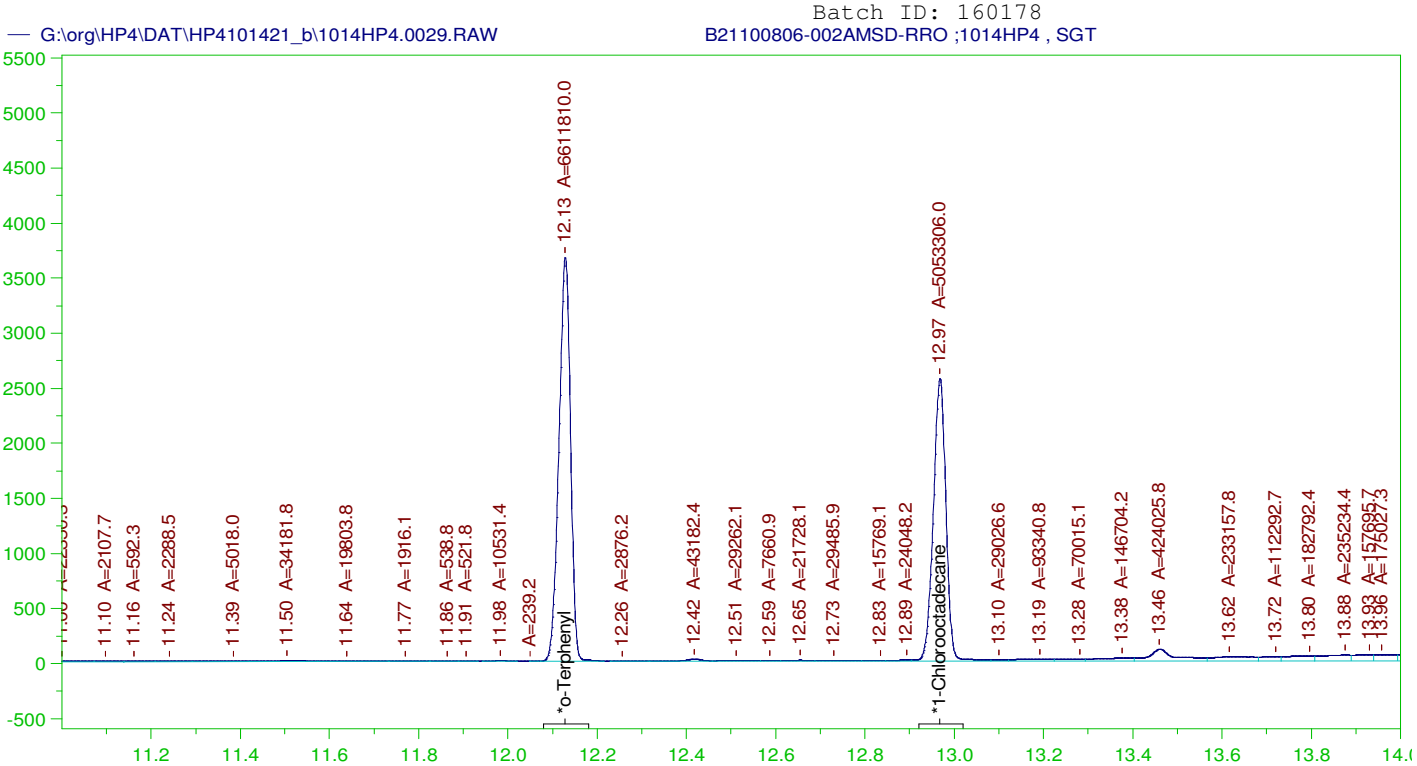


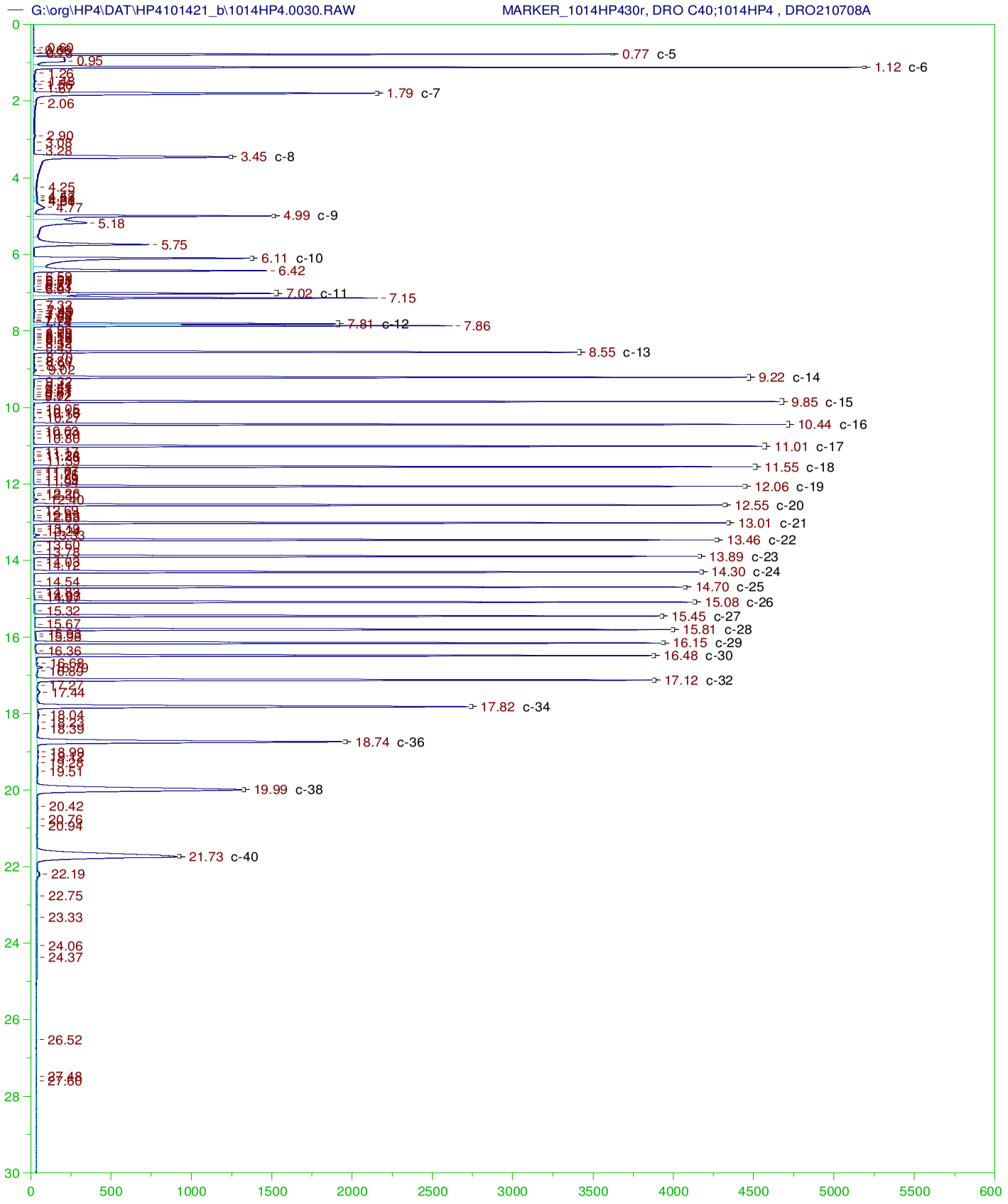

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002AMSD-RRO ;1014HP4 , SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0029.RAW
Date & Time Acquired: 10/15/2021 5:30:23 AM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.06 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | .392 | .419 | 106.75 | - |
| *1-Chlorooctadecane | 12.968 | .392 | .32 | 81.59 | - |

DRO Area:1.430956E+08 DRO Amount: 11.43843
TEH Area:1.433559E+08 TEH Amount: 11.45924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MARKER_1014HP430r, DRO C40;1014HP4 , DRO210708A
0.77 c-5
0.95
1.12 c-6
1.79 c-7
2.06
2.90
3.45 c-8
4.25
4.99 c-9
5.18
5.75
6.11 c-10
6.42
7.02 c-11
7.15
7.81 c-12
7.86
8.55 c-13
9.02
9.22 c-14
9.85 c-15
10.44 c-16
11.01 c-17
11.55 c-18
12.06 c-19
12.55 c-20
13.01 c-21
13.46 c-22
13.89 c-23
14.30 c-24
14.54
14.70 c-25
15.08 c-26
15.32
15.45 c-27
15.67
15.81 c-28
16.15 c-29
16.36
16.48 c-30
17.12 c-32
17.44
17.82 c-34
18.04
18.74 c-36
19.51
19.99 c-38
20.42
20.76
20.94
21.73 c-40
22.19
22.75
23.33
24.06
24.37
26.52
27.48
27.60
0
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1500
2000
2500
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600
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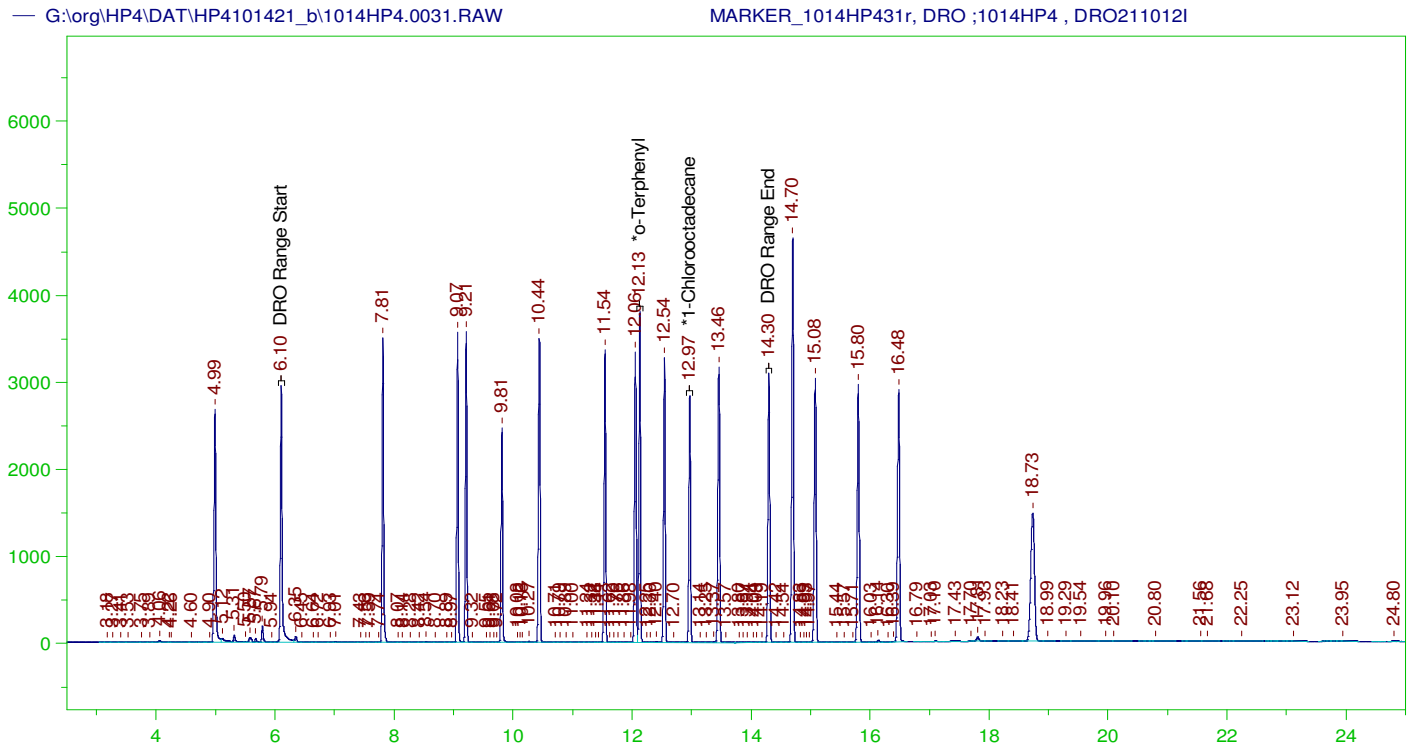


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1014HP431r, DRO ;1014HP4 , DRO211012I
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0031.RAW
Date & Time Acquired: 10/15/2021 7:00:43 AM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.13 | .2 | .219 | 109.72 | - |
| *1-Chlorooctadecane | 12.968 | .2 | .181 | 90.28 | - |

DRO Area:6.817621E+07 DRO Amount: 2.619185
TEH Area:1.117725E+08 TEH Amount: 4.294062

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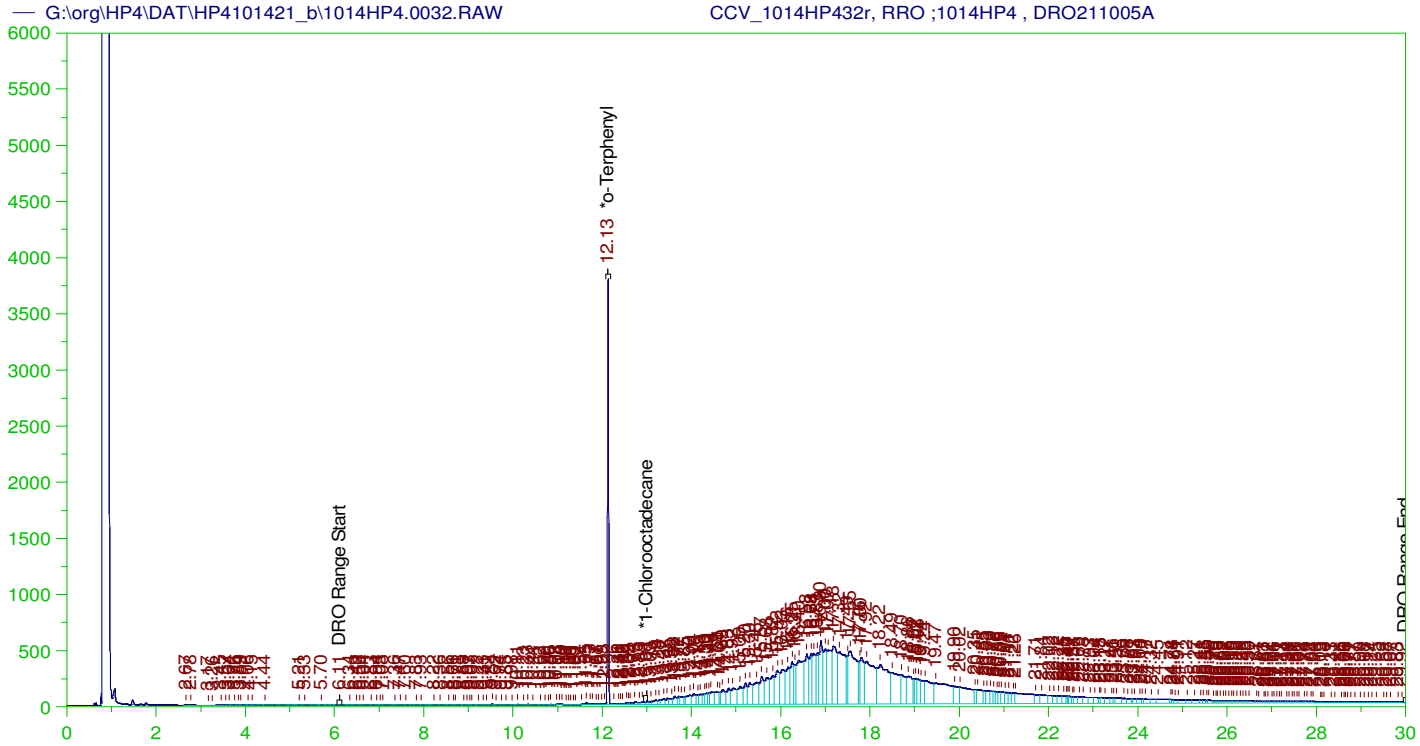



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP432r, RRO ;1014HP4 , DRO211005A
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0032.RAW
Date & Time Acquired: 10/15/2021 7:45:29 AM
Method File: G:\Org\HP4\methods\DC_8015-OIL-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.06 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.131 | 200. | 221.859 | 110.93 | - |
| *1-Chlorooctadecane | 13.006 | 200. | 4.118 | 2.06 | - |

DRO Area:1.238657E+08 DRO Amount: 5049.651
TEH (Oil Range) Area:1.239133E+08 TEH (Oil Range) Amount: 5051.591

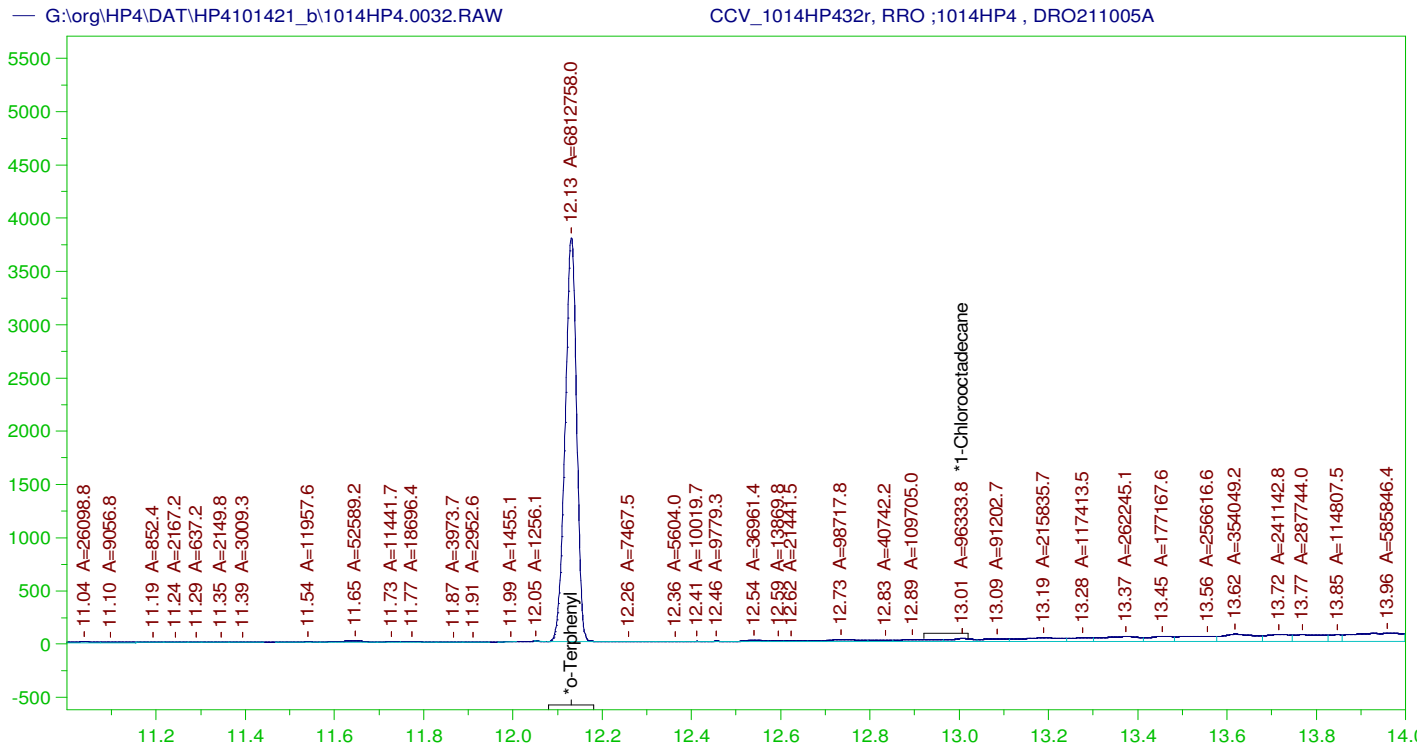
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0032.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5051.59 | 101.03 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.131 | 200. | 221.859 | 110.93 | 85-115 |
| *1-Chlorooctadecane | 13.006 | 200. | 4.118 | 2.06 | 85-115 |

AMN 10/19/2021

G:\org\HP4\dat\HP4101421_b\Review\032_CCV_1014HP432r_DC_8015-OIL-AB-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP432r, RRO ;1014HP4 , DRO211005A
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0032.RAW
Date & Time Acquired: 10/15/2021 7:45:29 AM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.06 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.131 | 200. | 219.989 | 109.99 | - |
| *1-Chlorooctadecane | 13.006 | 200. | 3.111 | 1.56 | - |

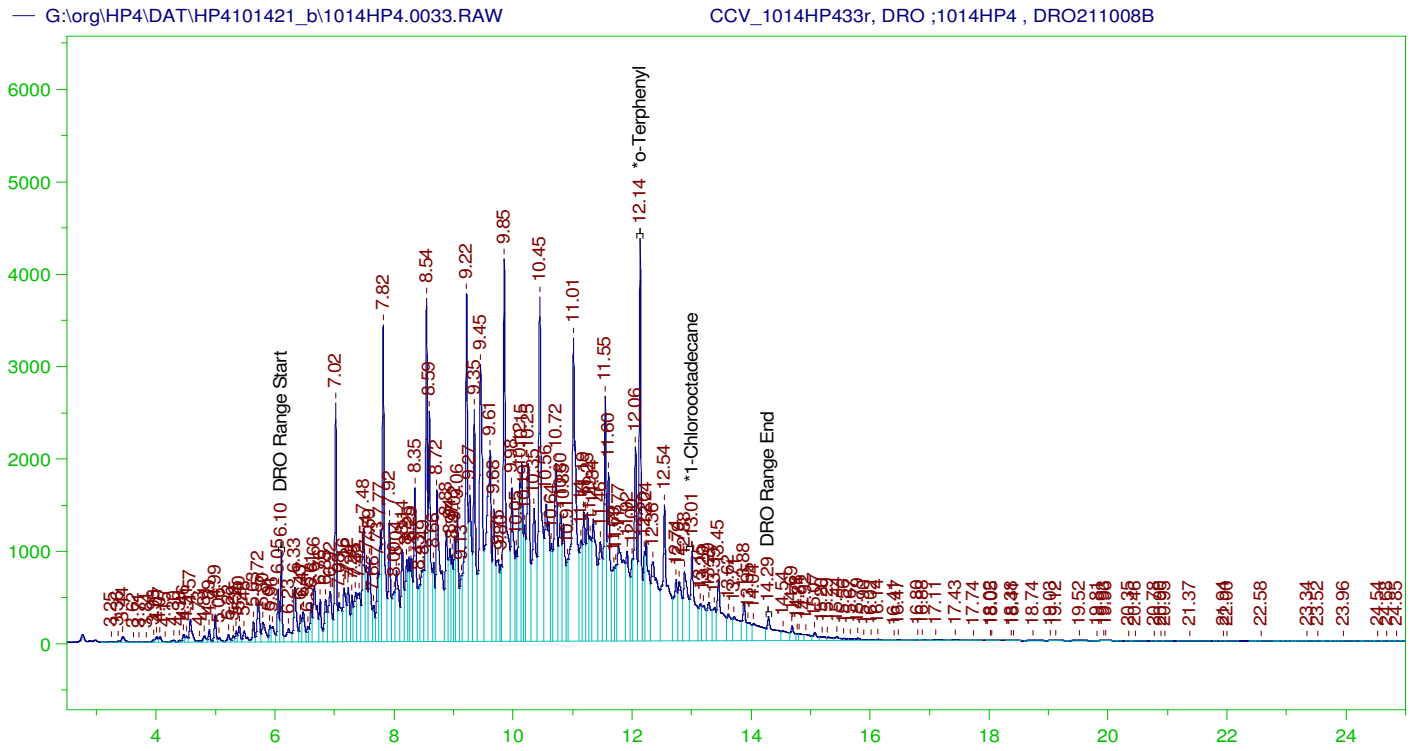
DRO Area:1.199377E+08 DRO Amount: 4889.516
TEH Area:1.199853E+08 TEH Amount: 4891.457

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0032.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4891.46 | 97.83 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.131 | 200. | 219.989 | 109.99 | 85-115 |
| *1-Chlorooctadecane | 13.006 | 200. | 3.111 | 1.56 | 85-115 |

G:\org\HP4\dat\HP4101421_b\Review\032_CCV_1014HP432r_DS_8015-OIL-AB-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP433r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0033.RAW
Date & Time Acquired: 10/15/2021 8:30:21 AM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | 333.425 | 166.71 | - |
| *1-Chlorooctadecane | 13.007 | 200. | 153.619 | 76.81 | - |

DRO Area:4.018889E+08 DRO Amount: 15439.72
TEH Area:4.165041E+08 TEH Amount: 16001.21

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0033.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16001.21 | 106.67 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | 333.425 | 166.71 | 85-115 |
| *1-Chlorooctadecane | 13.007 | 200. | 153.619 | 76.81 | 85-115 |

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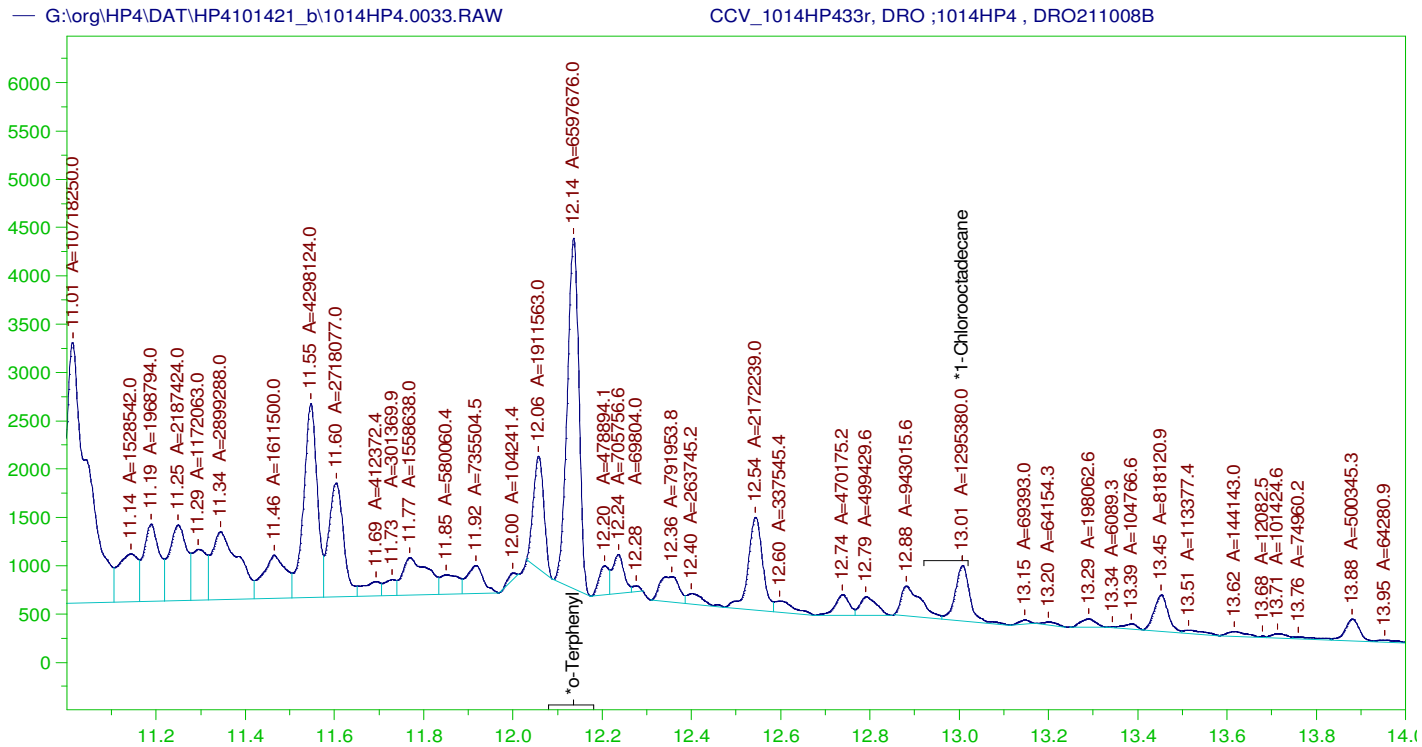


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP433r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0033.RAW
Date & Time Acquired: 10/15/2021 8:30:21 AM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | 213.044 | 106.52 | - |
| *1-Chlorooctadecane | 13.007 | 200. | 41.829 | 20.91 | - |

DRO Area:2.240178E+08 DRO Amount: 8606.289
TEH Area:2.336537E+08 TEH Amount: 8976.479

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0033.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8976.48 | 59.84 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | 213.044 | 106.52 | 85-115 |
| *1-Chlorooctadecane | 13.007 | 200. | 41.829 | 20.91 | 85-115 |

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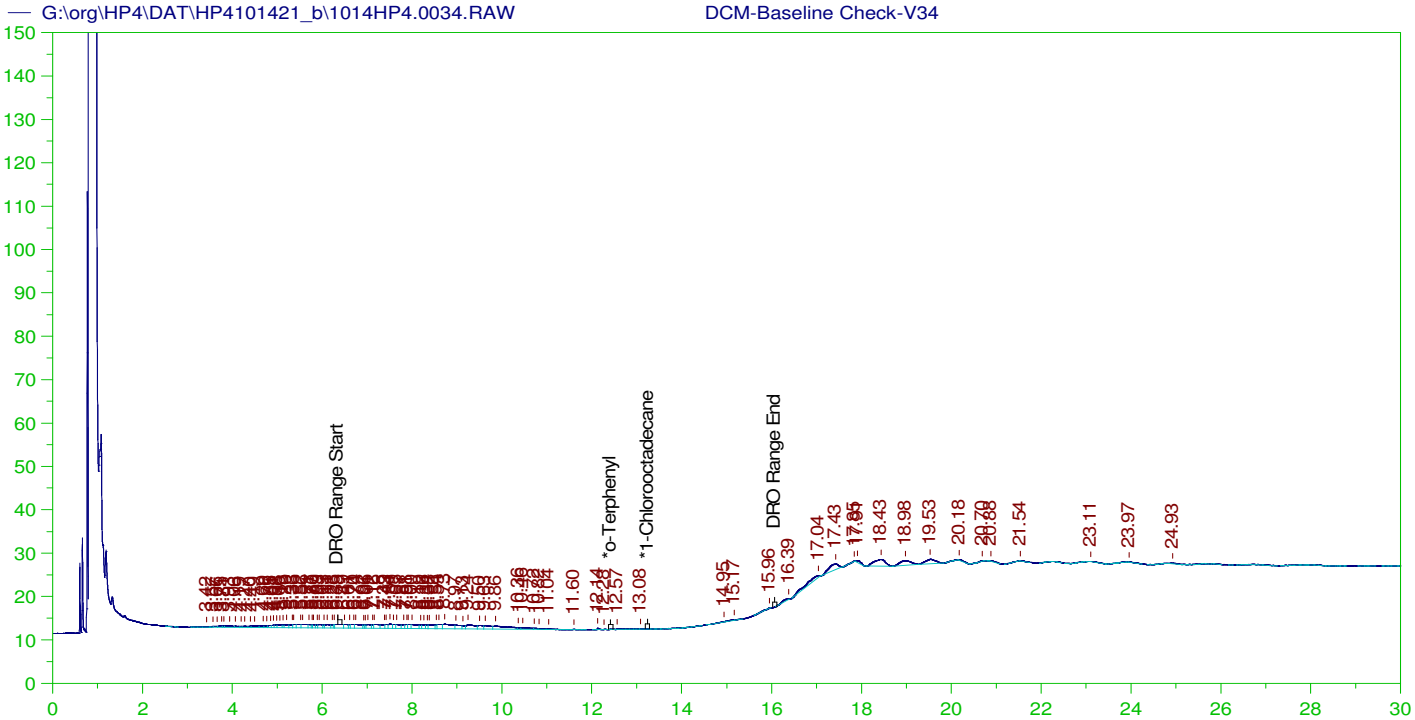



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

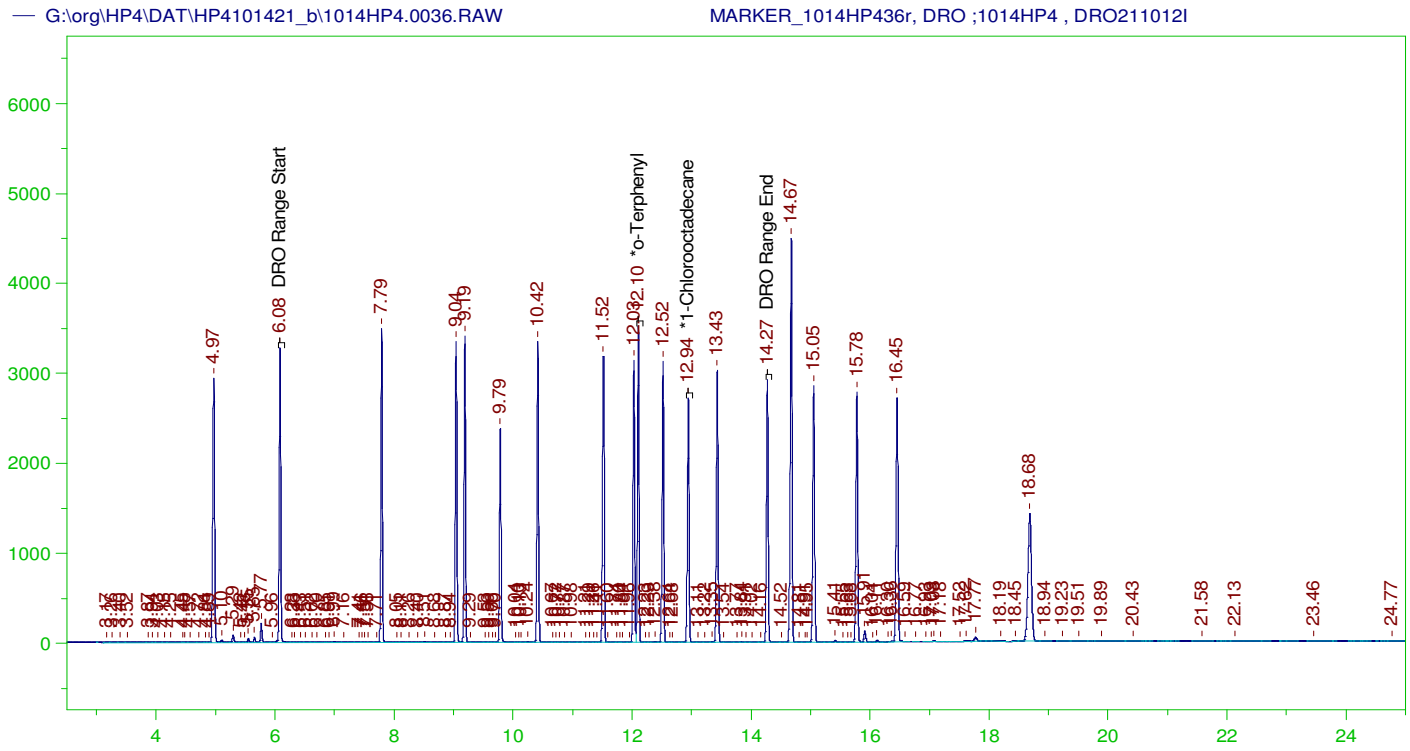
Sample Name: DCM-Baseline Check-V34
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0034.RAW
Date & Time Acquired: 10/15/2021 9:15:08 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.34 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.981 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:217232.4 DRO Amount: 8.345609
TEH Area:435892.2 TEH Amount: 16.74605

G:\org\HP4\dat\HP4101421_b\Review\034_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1014HP436r, DRO ;1014HP4 , DRO211012I
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0036.RAW
Date & Time Acquired: 10/15/2021 12:17:08 PM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.104 | .2 | .208 | 104.24 | - |
| *1-Chlorooctadecane | 12.943 | .2 | .172 | 85.97 | - |

DRO Area:6.486651E+07 DRO Amount: 2.492034
TEH Area:1.066894E+08 TEH Amount: 4.098781

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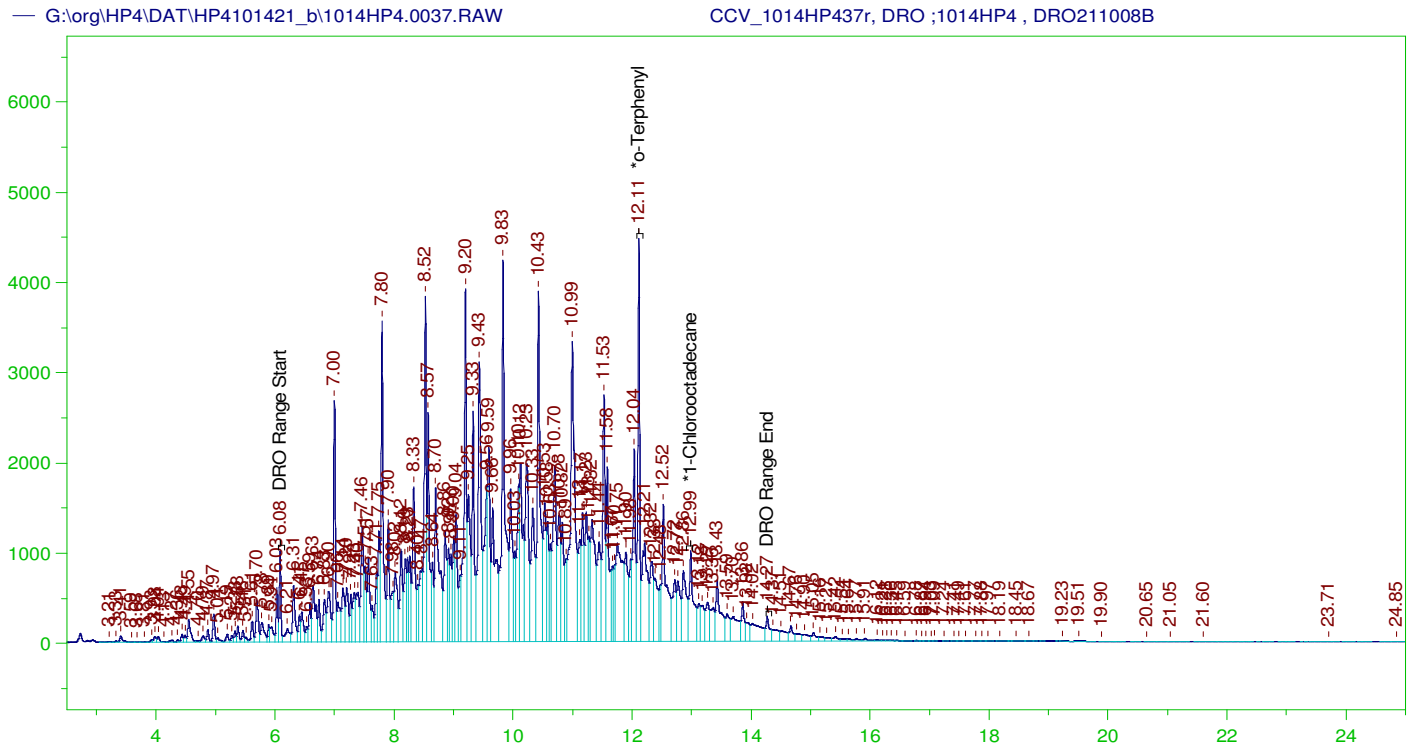


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP437r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0037.RAW
Date & Time Acquired: 10/15/2021 1:02:16 PM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.115 | 200. | 341.164 | 170.58 | - |
| *1-Chlorooctadecane | 12.986 | 200. | 161.249 | 80.62 | - |

DRO Area:4.119344E+08 DRO Amount: 15825.65
TEH Area:4.280957E+08 TEH Amount: 16446.53

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0037.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16446.53 | 109.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.115 | 200. | 341.164 | 170.58 | 85-115 |
| *1-Chlorooctadecane | 12.986 | 200. | 161.249 | 80.62 | 85-115 |

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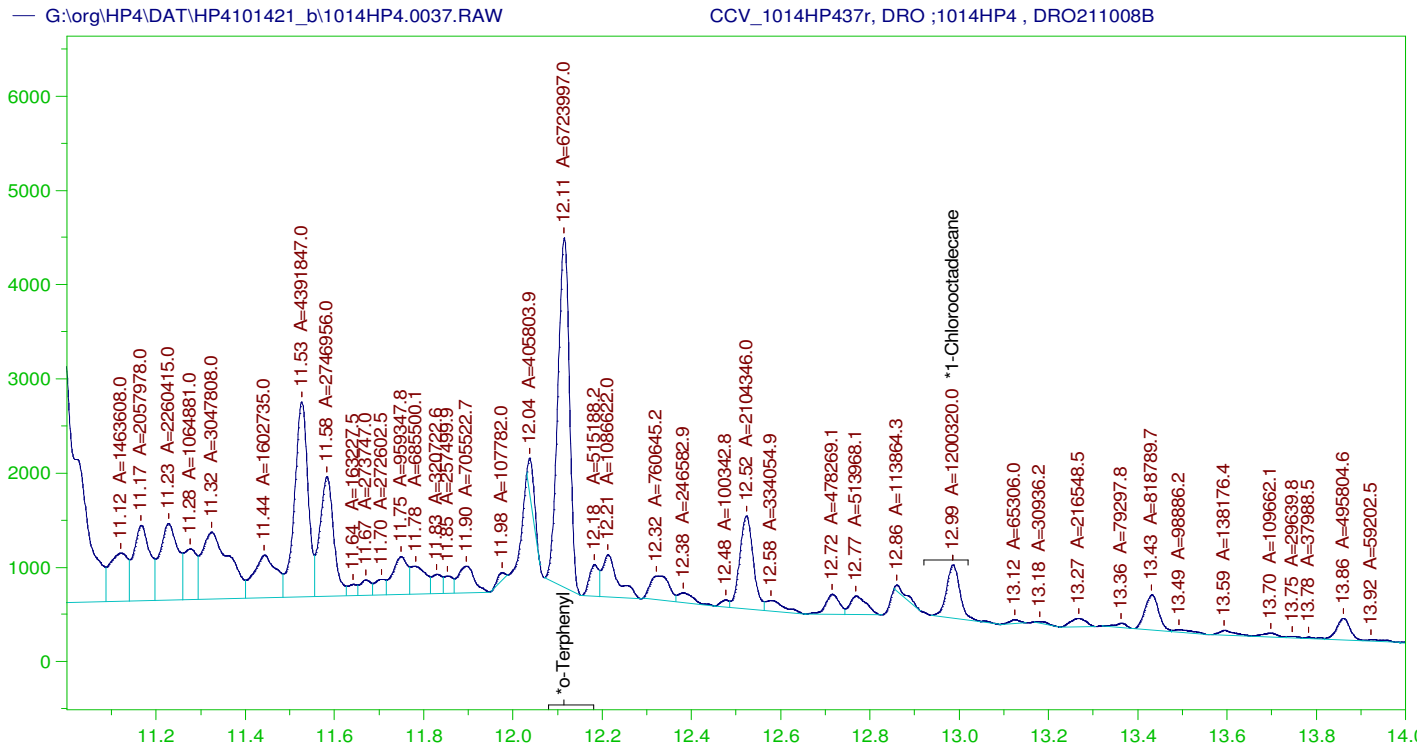


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP437r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0037.RAW
Date & Time Acquired: 10/15/2021 1:02:16 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.115 | 200. | 217.123 | 108.56 | - |
| *1-Chlorooctadecane | 12.986 | 200. | 38.759 | 19.38 | - |

DRO Area:2.259373E+08 DRO Amount: 8680.03
TEH Area:2.356122E+08 TEH Amount: 9051.72

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0037.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9051.72 | 60.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.115 | 200. | 217.123 | 108.56 | 85-115 |
| *1-Chlorooctadecane | 12.986 | 200. | 38.759 | 19.38 | 85-115 |

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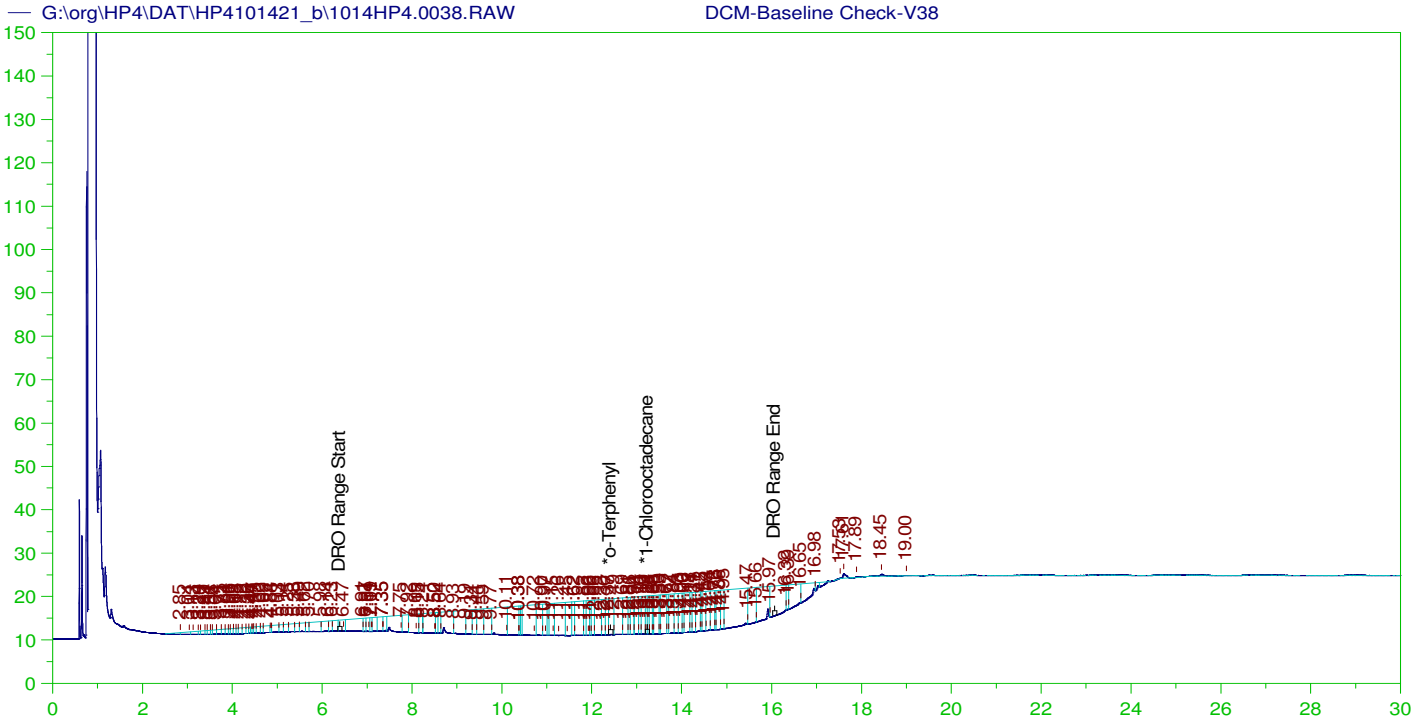


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V38
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0038.RAW
Date & Time Acquired: 10/15/2021 1:47:23 PM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.34 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 29.947 | 200. | . | . - |
| *1-Chlorooctadecane | 13.236 | 200. | .804 | .4 - |

DRO Area:3932832 DRO Amount: 151.091
TEH Area:4428810 TEH Amount: 170.1455

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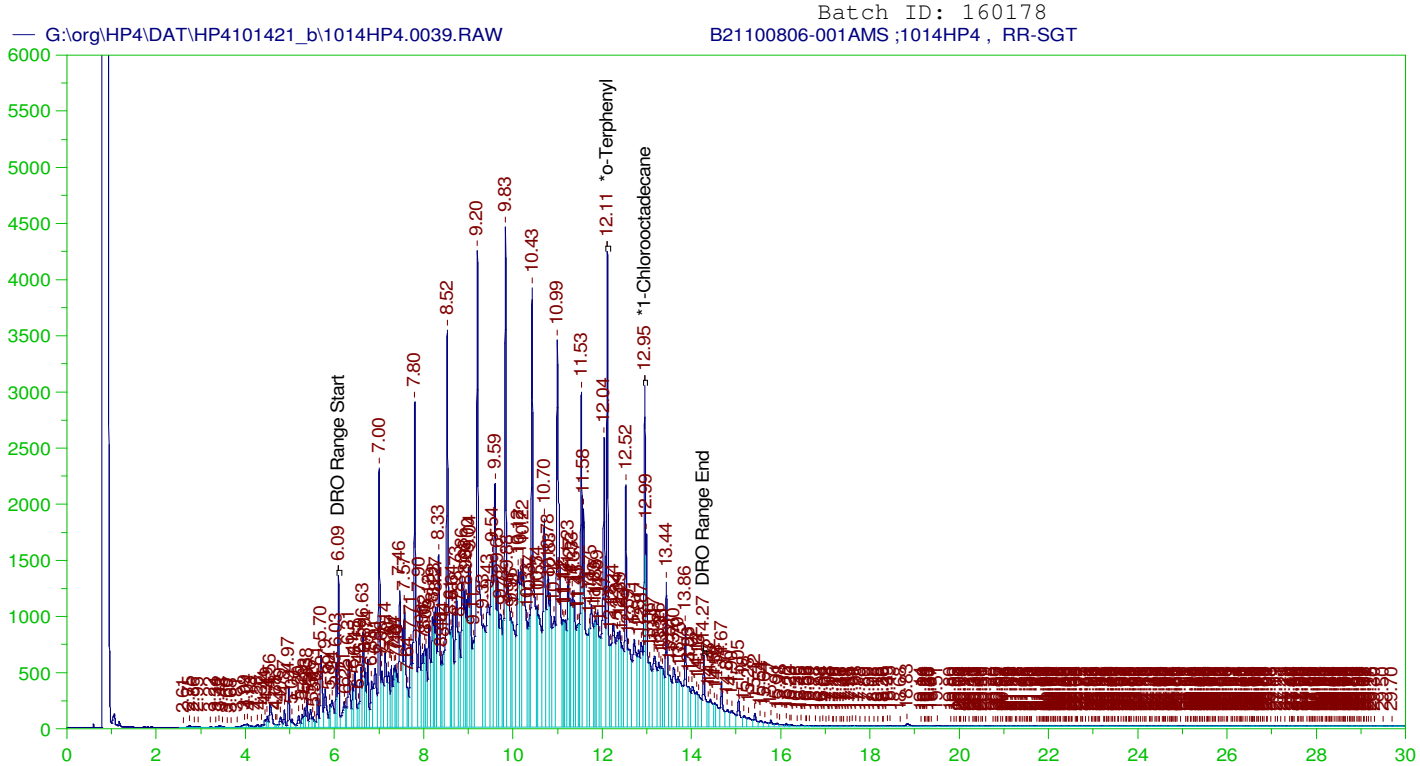
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001AMS ;1014HP4 , RR-SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0039.RAW
Date & Time Acquired: 10/15/2021 2:32:19 PM
Method File: G:\Org\HP4\methods\D3_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.113 | .381 | .663 | 173.97 | - |
| *1-Chlorooctadecane | 12.951 | .381 | .457 | 119.95 | - |

DRO Area:4.17422E+08 DRO Amount: 30.54566
TEH Area:4.446371E+08 TEH Amount: 32.53717

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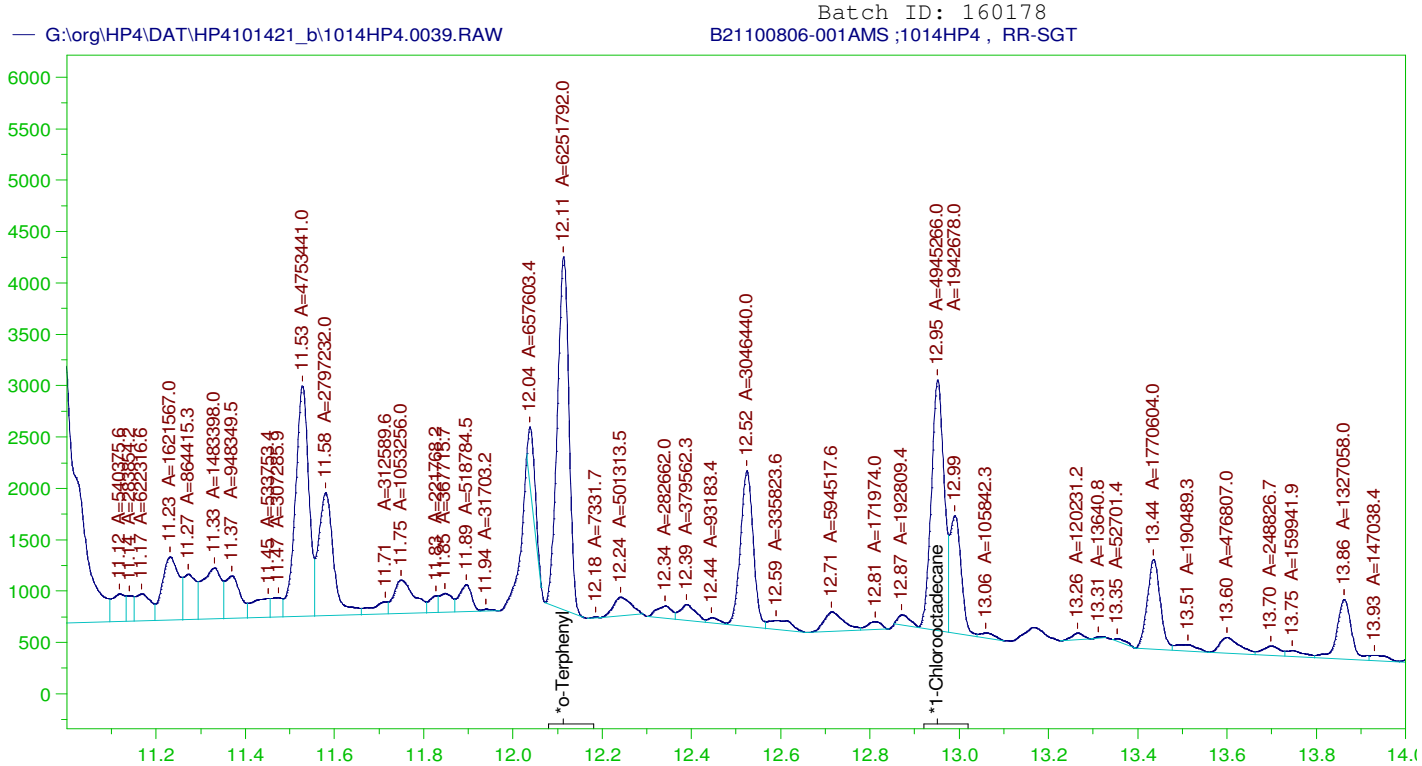
Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001AMS ;1014HP4 , RR-SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0039.RAW
Date & Time Acquired: 10/15/2021 2:32:19 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 525 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.113 | .381 | .385 | 100.94 | - |
| *1-Chlorooctadecane | 12.951 | .381 | .304 | 79.84 | - |

DRO Area:1.966857E+08 DRO Amount: 14.39285
TEH Area:2.091113E+08 TEH Amount: 15.30212

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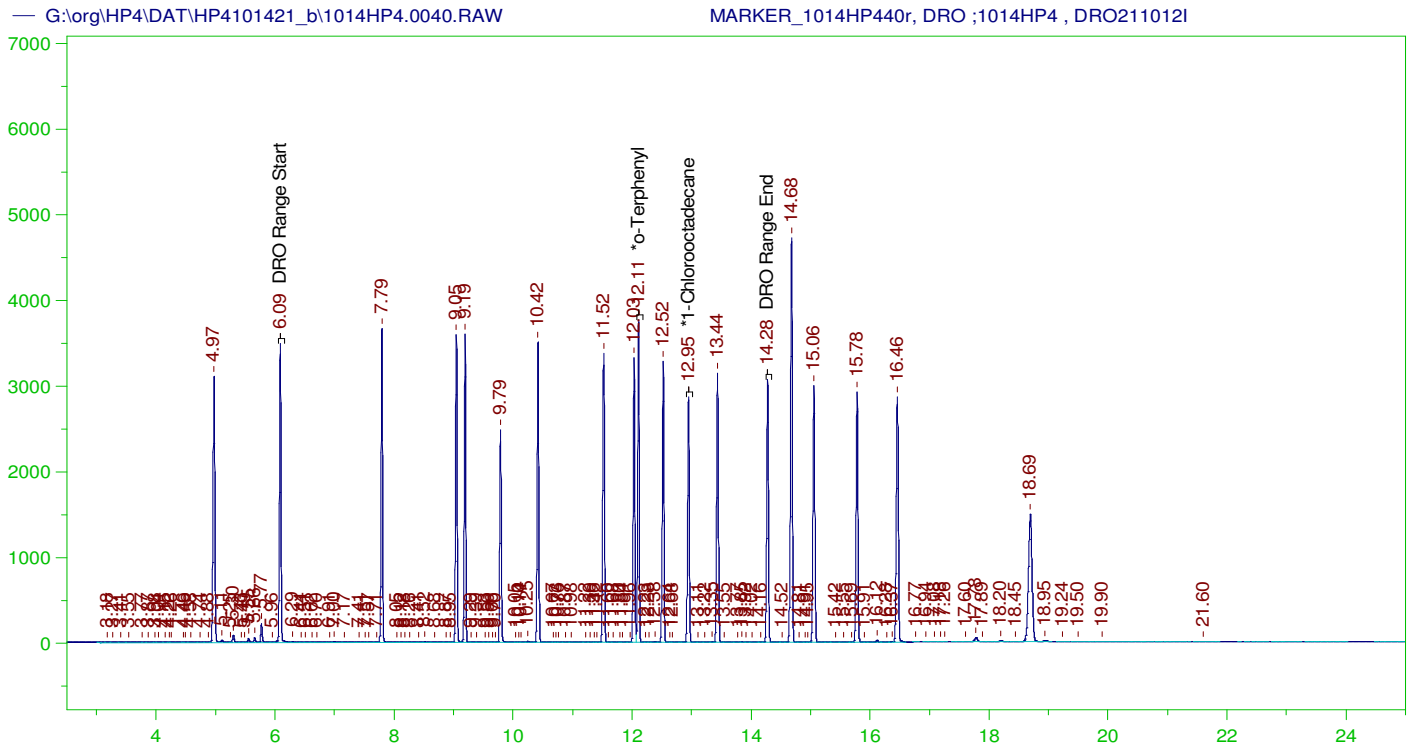


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1014HP440r, DRO ;1014HP4 , DRO211012I
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0040.RAW
Date & Time Acquired: 10/15/2021 3:17:18 PM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.108 | .2 | .22 | 110. | - |
| *1-Chlorooctadecane | 12.947 | .2 | .181 | 90.7 | - |

DRO Area:6.845835E+07 DRO Amount: 2.630025
TEH Area:1.122596E+08 TEH Amount: 4.312777

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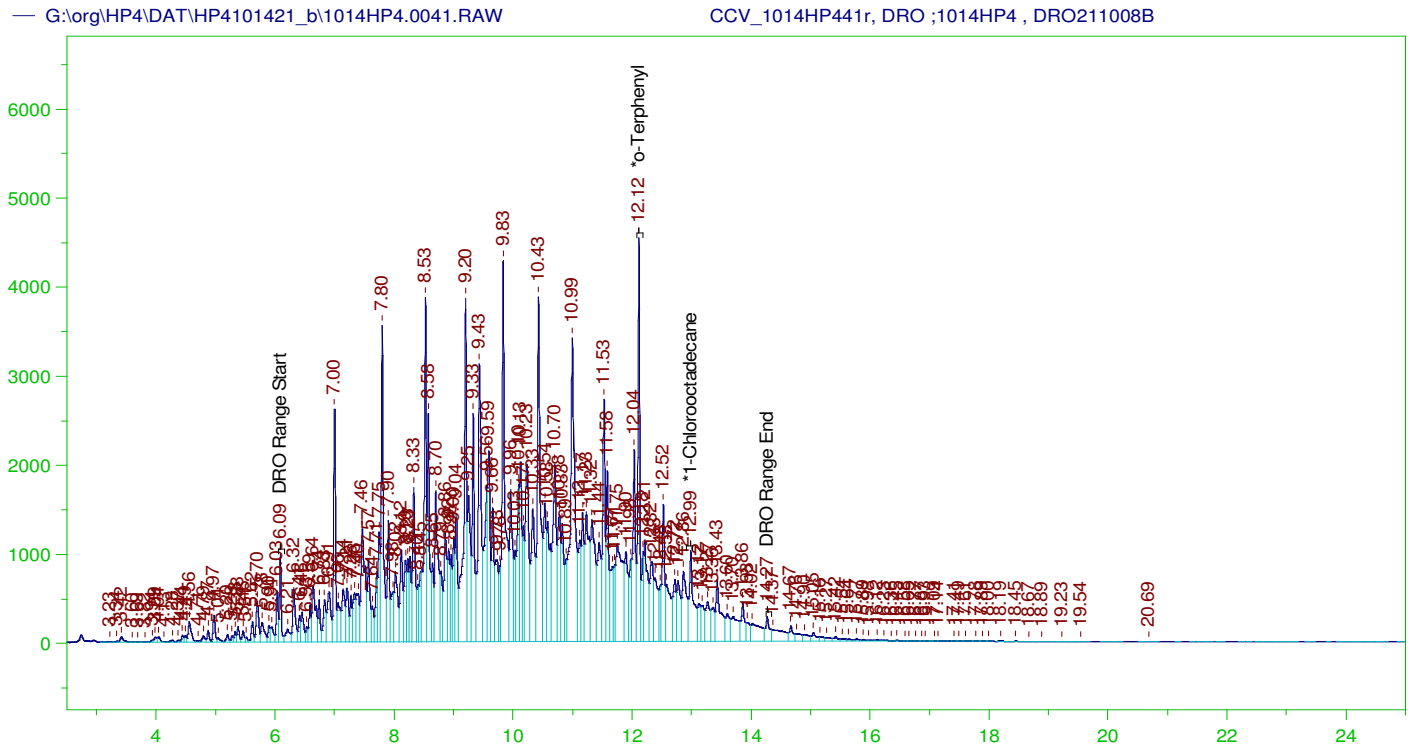



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP441r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0041.RAW
Date & Time Acquired: 10/15/2021 4:02:17 PM
Method File: G:\Org\HP4\methods\DC_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.115 | 200. | 346.354 | 173.18 | - |
| *1-Chlorooctadecane | 12.987 | 200. | 168.87 | 84.43 | - |

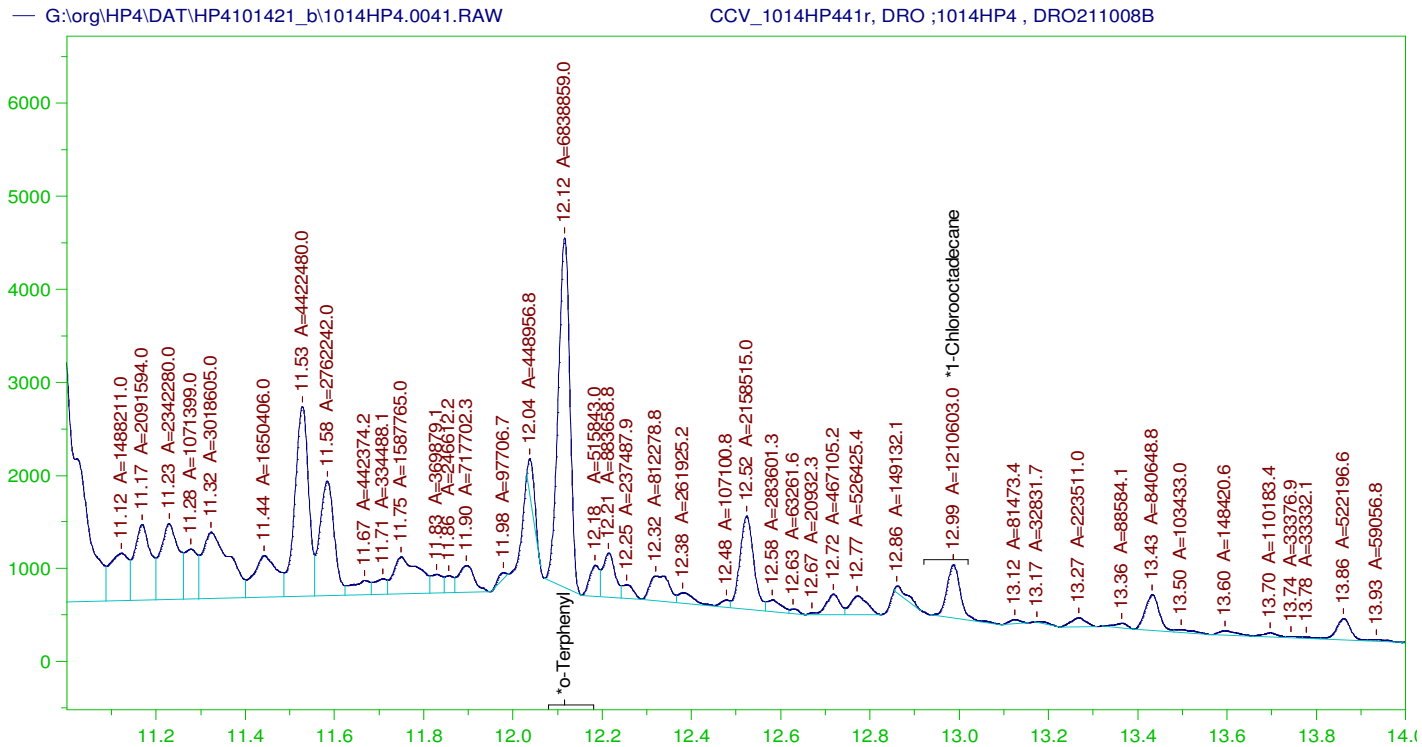
DRO Area:4.171748E+08 DRO Amount: 16026.97
TEH Area:4.335473E+08 TEH Amount: 16655.97

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16655.97 | 111.04 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.115 | 200. | 346.354 | 173.18 | 85-115 |
| *1-Chlorooctadecane | 12.987 | 200. | 168.87 | 84.43 | 85-115 |

G:\org\HP4\dat\HP4101421_b\Review\041_CCV_1014HP441r_DC_8015-24-MZ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1014HP441r, DRO ;1014HP4 , DRO211008B
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0041.RAW
Date & Time Acquired: 10/15/2021 4:02:17 PM
Method File: G:\Org\HP4\methods\DS_8015-24-MZ-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.115 | 200. | 220.832 | 110.42 | - |
| *1-Chlorooctadecane | 12.987 | 200. | 39.091 | 19.55 | - |

DRO Area:2.283963E+08 DRO Amount: 8774.502
TEH Area:2.37919E+08 TEH Amount: 9140.342

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101421_b\1014HP4.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9140.34 | 60.94 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.115 | 200. | 220.832 | 110.42 | 85-115 |
| *1-Chlorooctadecane | 12.987 | 200. | 39.091 | 19.55 | 85-115 |

G:\org\HP4\dat\HP4101421_b\Review\041_CCV_1014HP441r_DS_8015-24-MZ-L#.xls

Write Sequence | Insert Entries|Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manul Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP4\DAT\HP4101421_b\1014HP4.01r | DCM-Baseline Check-V01 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.02r | DCM-Baseline Check-V02 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.03r | MARKER_1014HP403r, DRO C40;1014HP4 , DRO210708A | g:\org\HP4\Methods\CSC211014.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.04r | CCV_1014HP404r, DRO ;1014HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.05r | CCV_1014HP405r, RRO ;1014HP4 , DRO211005A | G:\Org\HP4\methods\DC_8015-OIL-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.06r | DCM-Baseline Check-V06 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.07r | CCV_1014HP407r, DRO ;1014HP4 , DRO211008B-FAILED HIGH | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.08r | CCV_1014HP408r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.09r | CCV_1014HP409r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.10r | DCM-Baseline Check-V10 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.11r | LCS-160178 ;1014HP4 , SGT | G:\Org\HP4\methods\DS_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.12r | MB-160178 ;1014HP4 , SGT | G:\Org\HP4\methods\DR_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.17. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.13r | B2100806-005A ;1014HP4 , $HC-8015-DRO-W, SGT | G:\Org\HP4\methods\DR_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1060 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.17. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.14r | B2100806-004A ;1014HP4 , $HC-8015-DRO-W, SGT | G:\Org\HP4\methods\DR_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.17. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.15r | B2100806-002A ;1014HP4 , $HC-8015-DRO-W, SGT | G:\Org\HP4\methods\DR_8015-101415-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-101415-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline Now at 17.26 Set Baseline All Valley on at 18.06.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.16r | B2100806-001A ;1014HP4 , $HC-8015-DRO-W, SGT | G:\Org\HP4\methods\DR_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.17. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.17r | B2100806-003A ;1014HP4 , $HC-8015-DRO-W, SGT | G:\Org\HP4\methods\DR_8015-101417-24-MZ-L%.met<br>G:\Org\HP4\methods\DR_8015-101417-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline Now at 17.26 Set Baseline All Valley on at 20.06.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.18r | MARKER_1014HP418r, DRO C40;1014HP4 , DRO210708A | g:\org\HP4\Methods\CSC211014.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.19r | MARKER_1014HP419r, DRO ;1014HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.20r | CCV_1014HP420r, RRO ;1014HP4 , DRO211005A | G:\Org\HP4\methods\DC_8015-OIL-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.21r | CCV_1014HP421r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.22r | DCM-Baseline Check-V22 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.23r | B2100806-001AMS ;1014HP4 , SGT -Cap on instrument vial felt loose-rerunning | G:\Org\HP4\methods\D3_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.24r | B2100806-001AMSD ;1014HP4 , SGT | G:\Org\HP4\methods\D3_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.25r | LCS-160178-RRO ;1014HP4 , SGT | G:\Org\HP4\methods\D3_8015-OIL-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.26r | DCM-Baseline Check-V26 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.27r | B2100806-002AMS-RRO ;1014HP4 , SGT | G:\Org\HP4\methods\D3_8015-101427-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 510 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.28r | DCM-Baseline Check-V28 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.29r | B2100806-002AMSD-RRO ;1014HP4 , SGT | G:\Org\HP4\methods\D3_8015-101427-OILS-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 510 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.30r | MARKER_1014HP430r, DRO C40;1014HP4 , DRO210708A | g:\org\HP4\Methods\CSC211014.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.31r | MARKER_1014HP431r, DRO ;1014HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.32r | CCV_1014HP432r, RRO ;1014HP4 , DRO211005A | G:\Org\HP4\methods\DC_8015-OIL-AB-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AB-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.33r | CCV_1014HP433r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.34r | DCM-Baseline Check-V34 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.35r | MARKER_1014HP435r, DRO ;1014HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.37r | CCV_1014HP437r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.38r | DCM-Baseline Check-V38 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.39r | B2100806-001AMS ;1014HP4 , RR-SGT | G:\Org\HP4\methods\D3_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 525 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.40r | MARKER_1014HP440r, DRO ;1014HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP4\DAT\HP4101421_b\1014HP4.41r | CCV_1014HP441r, DRO ;1014HP4 , DRO211008B | G:\Org\HP4\methods\DC_8015-24-MZ-L%.met<br>G:\Org\HP4\methods\DS_8015-24-MZ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |



Ann Nebel

Digitally signed by Ann Nebel
Date: 2021.10.19 15:44:24 -06:00

# ANALYTICAL SUMMARY REPORT

November 09, 2021

AECOM - Honolulu
1001 Bishop Street, Suite 1600
Honolulu HI, 96813-3698

Work Order: B21100806 Quote ID: 5912

Project Name: CV_18F0126/60571032.02.20.01

Energy Laboratories Inc Billings MT received the following 7 samples from AECOM - Honolulu on 10/9/2021 for analysis.

| Lab ID | Client Sample ID | Collect Date | Received Date | Matrix | Test |
|---|---|---|---|---|---|
| B21100806-001 | ERH1784 (RHMW01R) | 10/06/21 14:10 | 10/09/2021 | Ground Water | DRO-Liquid-Liquid Extraction SW3520C<br>Diesel Range Organics SW8015C |
| B21100806-002 | ERH1787 (RHMW02) | 10/06/21 15:30 | 10/09/2021 | Ground Water | Same As Above |
| B21100806-003 | ERH1790 (RHMW03) | 10/06/21 17:00 | 10/09/2021 | Ground Water | Same As Above |
| B21100806-004 | ERH1793 (RHMW05) | 10/06/21 13:12 | 10/09/2021 | Ground Water | Same As Above |
| B21100806-005 | ERH1796 (RHMW2254-01) | 10/06/21 14:35 | 10/09/2021 | Ground Water | Same As Above |
| B21100806-006 | ERH1799 (RHSF) | 10/06/21 12:40 | 10/09/2021 | Drinking Water | Same As Above |
| B21100806-007 | ERH1801 (RHSF) | 10/06/21 12:40 | 10/09/2021 | Drinking Water | Same As Above |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

**CLIENT:** AECOM - Honolulu
**Project:** CV_18F0126/60571032.02.20.01
**Work Order:** B21100806

**Revised Date:** 11/9/2021
**Report Date:** 10/21/2021

# CASE NARRATIVE

Revised Date: 11/09/2021

On 11/05/2021 an email was received from Alethea Ramos at AECOM requesting the laboratory to revise this work order to report all J flagged detected values above the detection limit for EPA Method 8015C range analytes. The report has been revised and replaces the previously issued report dated 10/21/2021 in its entirety.

General Comments:

For any question please contact your Project Manager at (406) 252-6325 or billingspm@energylab.com.

All analyses have been performed in accordance with DOD QSM Version 5.3 unless otherwise noted below. The specific methodologies used in obtaining the enclosed analytical results are indicated on the Analytical Summary Report and the Laboratory Analytical Report. The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted in the Work Order Receipt Checklist.

The tests listed below are accredited and meet the requirements of DoD QSM Version 5.3 as verified by ANSI-ASQ National Accreditation Board (ANAB) certificate number ADE-2588. Exceptions to this require client authorization and records documenting this approval are attached in the Sample Management Records. Accreditation may not be offered or required for all methods and analytes reported in this package. Refer to the certificate and scope of accreditation located at https://www.energylab.com/whyus/certifications-quality-control/ or contact your project manager.

Project specific matrix quality control samples may not be reported if site specific samples were not submitted. Matrix quality control samples were performed on project samples where adequate volume was available. All quality control measures met criteria unless otherwise noted in the Analytical QC Exceptions report and in the Analysis Specific Comments below. Where available, sample management records are attached.

The Level IV Validation Package includes data reports for all analyses associated with the instrument calibration, quality control (QC) sample analysis, and sample analysis. All analytical data is within method specifications except as noted in the Analytical QC Exceptions report or the Analysis Specific Comments below. The analytical report identifies preparation batch and analytical run IDs associated with each result for a sample. Only the raw data associated with the parameters listed on this report should be validated.

Analysis Specific Comments:

An Analytical QC Exceptions Report has been attached, summarizing all qualified QC results. All quality control measures met criteria; therefore there were no analytical QC exceptions on this report.

ENERGY LABORATORIES
Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record 202110-09

DoD Samples

www.energylab.com

COC# NOI

Page 1 of 3

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |
| Special Report/Formats: | ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____ |

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 3-weeks.
4. Note "non-PO" on invoice.

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name KL, NL, CF | Sampler Phone 808-636-3319 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

URANIUM MINING CLIENTS MUST indicate sample type
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**

A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

**Analysis Requested**

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1784 (RHMW01R) | 10/06/2021 | 10:10 am | 2 | W | ✓ | ✓ | | | | | | | | | X | B21100806 |
| 2 | ERH1787 (RHMW02) | 10/06/2021 | 11:30 am | 2 | W | ✓ | ✓ | | | | | | | | | X | |
| 3 | ERH1790 (RHMW03) | 10/06/2021 | 1:00 pm | 0 | W | ✓ | ✓ | | | | | | | | | X | |
| 4 | ERH1793 (RHMW05) | 10/06/2021 | 9:12 am | 0 | W | ✓ | ✓ | | | | | | | | | X | |
| 5 | ERH1796 (RHMW2254-01) | 10/06/2021 | 10:35 am | 0 | W | ✓ | ✓ | | | | | | | | | X | |
| 6 | ERH1799 (RHSF) | 10/06/2021 | 8:40 am | 0 | W | ✓ | ✓ | | | | | | | | | X | |
| 7 | ERH1801 (RHSF) | 10/06/2021 | 8:40 am | 0 | W | ✓ | ✓ | | | | | | | | | X | |
| 8 | | 10/7/21 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

**ELI Is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/7/2021 13:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | Tacy Lavegna | 10/9/21 1130 | |

LABORATORY USE ONLY

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | On Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | 0.2 °C | Y N | Y N | CC Cash Check_____ | $ - | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly noted on your analytical report.

ENERGY LABORATORIES
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# Chain of Custody & Analytical Request Record 202110-10

DoD Samples

www.energylab.com

COC# NOI



## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |

Special Report/Formats: ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 3-weeks.
4. Note "non-PO" on invoice.

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name KL, NL, CF | Sampler Phone 808-636-3319 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

## Analysis Requested

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1784 (RHMW01R) | 10/06/2021 | 10:10 am | 0 | W | ✓ | ✓ | | | | | | | | | X | B211608060 |
| 2 | ERH1787 (RHMW02) | 10/06/2021 | 11:30 am | 0 | W | ✓ | ✓ | | | | | | | | | X | |
| 3 | ERH1790 (RHMW03) | 10/06/2021 | 1:00 pm | 2 | W | ✓ | ✓ | | | | | | | | | X | |
| 4 | ERH1793 (RHMW05) | 10/06/2021 | 9:12 am | 2 | W | ✓ | ✓ | | | | | | | | | X | |
| 5 | ERH1796 (RHMW2254-01) | 10/06/2021 | 10:35 am | 0 | W | ✓ | ✓ | | | | | | | | | X | |
| 6 | ERH1799 (RHSF) | 10/06/2021 | 8:40 am | 0 | W | ✓ | ✓ | | | | | | | | | X | |
| 7 | ERH1801 (RHSF) | 10/06/2021 | 8:40 am | 0 | W | ✓ | ✓ | | | | | | | | | X | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

JN. 10/4/21

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/7/2021 13:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | Raul Quezada | 10/4/21 1130 | |

LABORATORY USE ONLY

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | 0.0 °C | Y N | Y N | CC Cash Check_____ | $ | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ENERGY LABORATORIES
Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record 202110-11

DoD Samples

www.energylab.com

COC# NOI Page 3 of 3

## Account Information (Billing Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |

Special Report/Formats: ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 3-weeks.
4. Note "non-PO" on invoice.

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name DM, AM | Sampler Phone 310-625-1283 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1784 (RHMW01R) | 10/06/2021 | 10:10 am | 0 | W | ✔ | ✔ | | | | | | | | | X | B211008006 |
| 2 | ERH1787 (RHMW02) | 10/06/2021 | 11:30 am | 0 | W | ✔ | ✔ | | | | | | | | | X | |
| 3 | ERH1790 (RHMW03) | 10/06/2021 | 1:00 pm | 0 | W | ✔ | ✔ | | | | | | | | | X | |
| 4 | ERH1793 (RHMW05) | 10/06/2021 | 9:12 am | 0 | W | ✔ | ✔ | | | | | | | | | X | |
| 5 | ERH1796 (RHMW2254-01) | 10/06/2021 | 10:35 am | 2 | W | ✔ | ✔ | | | | | | | | | X | |
| 6 | ERH1799 (RHSF) | 10/06/2021 | 8:40 am | 2 | W | ✔ | ✔ | | | | | | | | | X | |
| 7 | ERH1801 (RHSF) | 10/06/2021 | 8:40 am | 2 | W | ✔ | ✔ | | | | | | | | | X | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

JN 10/9/21

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/7/2021 13:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | Kelly Teague | 10/9/21 1130 | |

LABORATORY USE ONLY

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | On Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | 0.5 °C | Y N | Y N | CC Cash Check_____ | $ | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

# Work Order Receipt Checklist

## AECOM - Honolulu

## B21100806

Login completed by: Leslie S. Cadreau

Date Received: 10/9/2021

Reviewed by: BL2000\darcy

Received by: kmt

Reviewed Date: 10/12/2021

Carrier name: FedEx

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all sample bottles? | Yes ☑ | No ☐ | Not Present ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes ☑ | No ☐ | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Applicable ☐ |
| Container/Temp Blank temperature: | °C On Ice | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | Not Applicable ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | Not Applicable ☐ |

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### Contact and Corrective Action Comments:

The Temperature Blank temperature for shipping container 1 was 0.2°C (Chain of Custody 1 of 3), shipping container 2 was 0.0°C (Chain of Custody 2 of 3) and shipping container 3 was 0.5°C (Chain of Custody 3 of 3).

The collection time indicated on the Chain of Custody for all samples is in Hawaii-Aleutian Standard Time. The collection time has been converted (+4 Hours) to Mountain Daylight Time.

All samples were received in client provided containers using client provided preservative. Energy Laboratories sample preservation traceability is not available.

The matrix was updated on all samples per email from Alethea Ramos on 10/11/21.

# Qualifiers and Abbreviations

| Qualifier | Qualifier Description |
|---|---|
| ## | Limit of Quantitation (LOQ) for this analyte exceeds the Maximum Contaminant Level (MCL) |
| * | Result exceeds the Maximum Contaminant Level (MCL) |
| A | The analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated |
| B | Analyte detected in the method blank |
| C | Continuing calibration verification was outside of the quality control advisory limits |
| D | Limit of Quantitation (LOQ) increased due to sample matrix |
| E | Estimated value - result exceeds the instrument upper quantitation limit |
| H | Analysis performed past the method holding time |
| J | The reported result is an estimated value |
| L | Lowest Limit of Quantitation (LOQ) available for the analytical method used |
| N | Analyte concentration was not sufficiently high to calculate a Relative Percent Difference (RPD) for the serial dilution test |
| O | Diluted out |
| P | Poor method performance - method validations have shown no recoveries at low concentrations or method performance was erratic |
| Q | Values reported below the Limit of Quantitation (LOQ) are statistically invalid |
| R | Relative Percent Difference (RPD) exceeds advisory limit |
| S | Spike recovery outside of advisory limits |
| T | Analyte detected in the associated trip blank |
| U | Not detected at the Limit of Detection (LOD) |
| V | The RPD value for this duplicate represents the RER value and the RPDLimit of 2 is the RER upper limit. |

# Qualifiers and Abbreviations

## Abbreviation

| Reporting | Explanation of Abbreviation |
|---|---|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MCL | Maximum Contaminant Level |
| MDC | Minimum Detectable Concentration |
| ND | Not detected at the Limit of Quantitaton (LOQ) |
| RBSL | Risk-Based Screening Levels |
| REC | Recovery |
| RER | Relative Error Ratio |
| RPD | Relative Percent Difference |
| SPK | Spike |

| Sample Types | Explanation of Abbreviation |
|---|---|
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification Standard |
| DUP | Sample Duplicate |
| ICSA | Interference Check Sample A |
| ICSAB | Interference Check Sample AB |
| ICV | Initial Calibration Verification Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LFB | Laboratory Fortified Blank |
| LRB | Laboratory Reagent Blank |
| MBLK | Method Blank |
| MS | Sample Matrix Spike |
| MSD | Sample Matrix Spike Duplicate |
| PDS | Post Digestion/Distillation Spike |
| QCS | Quality Control Sample |
| SD | Serial Dilution |
| SRM | Standard Reference Material |

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1784 (RHMW01R)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100806-001
**Collection Date:** 10/06/2021 14:10
**Date Received:** 10/09/2021
**Report Date:** 10/21/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.49 | mg/L | 1 | | 0.30 | 0.14 | 0.037 | | SW8015C | 10/11/2021 23:11/amn | GCFID-HP5-B_211011A : 7 | 160178 |
| Diesel Range Organics (SGT-C10 to C24) | 0.12 | mg/L | 1 | J | 0.30 | 0.14 | 0.034 | | SW8015C | 10/14/2021 19:40/amn | GCFID-HP4-B_211014A : 11 | 160178 |
| Oil Range Hydrocarbons (C24 to C40) | 0.18 | mg/L | 1 | J | 0.30 | 0.14 | 0.083 | | SW8015C | 10/11/2021 23:11/amn | GCFID-HP5-B_211011A : 7 | 160178 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.050 | | SW8015C | 10/14/2021 19:40/amn | GCFID-HP4-B_211014A : 11 | 160178 |
| Total Extractable Hydrocarbons | 0.93 | mg/L | 1 | | 0.30 | 0.14 | 0.071 | | SW8015C | 10/11/2021 23:11/amn | GCFID-HP5-B_211011A : 7 | 160178 |
| Total Extractable Hydrocarbons (SGT) | 0.14 | mg/L | 1 | J | 0.30 | 0.14 | 0.074 | | SW8015C | 10/14/2021 19:40/amn | GCFID-HP4-B_211014A : 11 | 160178 |
| Surr: o-Terphenyl | 83.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/11/2021 23:11/amn | GCFID-HP5-B_211011A : 7 | 160178 |
| Surr: o-Terphenyl (SGT) | 82.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/14/2021 19:40/amn | GCFID-HP4-B_211014A : 11 | 160178 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1787 (RHMW02)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100806-002
**Collection Date:** 10/06/2021 15:30
**Date Received:** 10/09/2021
**Report Date:** 10/21/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 3.1 | mg/L | 1 | | 0.30 | 0.14 | 0.037 | | SW8015C | 10/12/2021 09:52/amn | GCFID-HP5-B_211011A : 15 | 160178 |
| Diesel Range Organics (SGT-C10 to C24) | 0.75 | mg/L | 1 | | 0.30 | 0.14 | 0.034 | | SW8015C | 10/14/2021 18:55/amn | GCFID-HP4-B_211014A : 10 | 160178 |
| Oil Range Hydrocarbons (C24 to C40) | 0.38 | mg/L | 1 | | 0.30 | 0.14 | 0.083 | | SW8015C | 10/12/2021 09:52/amn | GCFID-HP5-B_211011A : 15 | 160178 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.050 | | SW8015C | 10/14/2021 18:55/amn | GCFID-HP4-B_211014A : 10 | 160178 |
| Total Extractable Hydrocarbons | 3.7 | mg/L | 1 | | 0.30 | 0.14 | 0.071 | | SW8015C | 10/12/2021 09:52/amn | GCFID-HP5-B_211011A : 15 | 160178 |
| Total Extractable Hydrocarbons (SGT) | 0.79 | mg/L | 1 | | 0.30 | 0.14 | 0.074 | | SW8015C | 10/14/2021 18:55/amn | GCFID-HP4-B_211014A : 10 | 160178 |
| Surr: o-Terphenyl | 81.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/12/2021 09:52/amn | GCFID-HP5-B_211011A : 15 | 160178 |
| Surr: o-Terphenyl (SGT) | 67.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/14/2021 18:55/amn | GCFID-HP4-B_211014A : 10 | 160178 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1790 (RHMW03)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100806-003
**Collection Date:** 10/06/2021 17:00
**Date Received:** 10/09/2021
**Report Date:** 10/21/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.18 | mg/L | 1 | J | 0.30 | 0.14 | 0.037 | | SW8015C | 10/12/2021 12:00/amn | GCFID-HP5-B_211011A : 16 | 160178 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.034 | | SW8015C | 10/14/2021 20:26/amn | GCFID-HP4-B_211014A : 12 | 160178 |
| Oil Range Hydrocarbons (C24 to C40) | 0.57 | mg/L | 1 | | 0.30 | 0.14 | 0.084 | | SW8015C | 10/12/2021 12:00/amn | GCFID-HP5-B_211011A : 16 | 160178 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.051 | | SW8015C | 10/14/2021 20:26/amn | GCFID-HP4-B_211014A : 12 | 160178 |
| Total Extractable Hydrocarbons | 1.6 | mg/L | 1 | | 0.30 | 0.14 | 0.071 | | SW8015C | 10/12/2021 12:00/amn | GCFID-HP5-B_211011A : 16 | 160178 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.074 | | SW8015C | 10/14/2021 20:26/amn | GCFID-HP4-B_211014A : 12 | 160178 |
| Surr: o-Terphenyl | 80.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/12/2021 12:00/amn | GCFID-HP5-B_211011A : 16 | 160178 |
| Surr: o-Terphenyl (SGT) | 74.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/14/2021 20:26/amn | GCFID-HP4-B_211014A : 12 | 160178 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1793 (RHMW05)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100806-004
**Collection Date:** 10/06/2021 13:12
**Date Received:** 10/09/2021
**Report Date:** 10/21/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.056 | mg/L | 1 | J | 0.30 | 0.14 | 0.037 | | SW8015C | 10/12/2021 09:09/amn | GCFID-HP5-B_211011A : 14 | 160178 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.034 | | SW8015C | 10/14/2021 18:09/amn | GCFID-HP4-B_211014A : 9 | 160178 |
| Oil Range Hydrocarbons (C24 to C40) | 0.087 | mg/L | 1 | J | 0.30 | 0.14 | 0.084 | | SW8015C | 10/12/2021 09:09/amn | GCFID-HP5-B_211011A : 14 | 160178 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.051 | | SW8015C | 10/14/2021 18:09/amn | GCFID-HP4-B_211014A : 9 | 160178 |
| Total Extractable Hydrocarbons | 0.21 | mg/L | 1 | J | 0.30 | 0.14 | 0.071 | | SW8015C | 10/12/2021 09:09/amn | GCFID-HP5-B_211011A : 14 | 160178 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.074 | | SW8015C | 10/14/2021 18:09/amn | GCFID-HP4-B_211014A : 9 | 160178 |
| Surr: o-Terphenyl | 64.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/12/2021 09:09/amn | GCFID-HP5-B_211011A : 14 | 160178 |
| Surr: o-Terphenyl (SGT) | 55.0 | %REC | 1 | S | 56-125 | | | | SW8015C | 10/14/2021 18:09/amn | GCFID-HP4-B_211014A : 9 | 160178 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1796 (RHMW2254-01)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100806-005
**Collection Date:** 10/06/2021 14:35
**Date Received:** 10/09/2021
**Report Date:** 10/21/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/12/2021 06:19/amn | GCFID-HP5-B_211011A : 11 | 160178 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.034 | | SW8015C | 10/14/2021 17:24/amn | GCFID-HP4-B_211014A : 8 | 160178 |
| Oil Range Hydrocarbons (C24 to C40) | 0.17 | mg/L | 1 | J | 0.30 | 0.14 | 0.083 | | SW8015C | 10/12/2021 06:19/amn | GCFID-HP5-B_211011A : 11 | 160178 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.050 | | SW8015C | 10/14/2021 17:24/amn | GCFID-HP4-B_211014A : 8 | 160178 |
| Total Extractable Hydrocarbons | 0.23 | mg/L | 1 | J | 0.30 | 0.14 | 0.071 | | SW8015C | 10/12/2021 06:19/amn | GCFID-HP5-B_211011A : 11 | 160178 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.074 | | SW8015C | 10/14/2021 17:24/amn | GCFID-HP4-B_211014A : 8 | 160178 |
| Surr: o-Terphenyl | 97.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/12/2021 06:19/amn | GCFID-HP5-B_211011A : 11 | 160178 |
| Surr: o-Terphenyl (SGT) | 102.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/14/2021 17:24/amn | GCFID-HP4-B_211014A : 8 | 160178 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1799 (RHSF)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21100806-006
**Collection Date:** 10/06/2021 12:40
**Date Received:** 10/09/2021
**Report Date:** 10/21/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/12/2021 07:44/amn | GCFID-HP5-B_211011A : 12 | 160178 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.085 | | SW8015C | 10/12/2021 07:44/amn | GCFID-HP5-B_211011A : 12 | 160178 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.072 | | SW8015C | 10/12/2021 07:44/amn | GCFID-HP5-B_211011A : 12 | 160178 |
| Surr: o-Terphenyl | 99.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/12/2021 07:44/amn | GCFID-HP5-B_211011A : 12 | 160178 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1801 (RHSF)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21100806-007
**Collection Date:** 10/06/2021 12:40
**Date Received:** 10/09/2021
**Report Date:** 10/21/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/12/2021 08:27/amn | GCFID-HP5-B_211011A : 13 | 160178 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.085 | | SW8015C | 10/12/2021 08:27/amn | GCFID-HP5-B_211011A : 13 | 160178 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.072 | | SW8015C | 10/12/2021 08:27/amn | GCFID-HP5-B_211011A : 13 | 160178 |
| Surr: o-Terphenyl | 102.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/12/2021 08:27/amn | GCFID-HP5-B_211011A : 13 | 160178 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/21/2021

**Run ID: Run Order:** GCFID-HP5-B_211011A: 5 **SampType:** Method Blank **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/11/2021 21:45 **Prep Date:** 10/09/2021 12:12
**Lab ID:** MB-160178 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl | 0.18 | 0.0020 | 0.20 | | 89.0 | 56 | 125 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP4-B_211014A: 7 **SampType:** Method Blank **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/14/2021 16:38 **Prep Date:** 10/09/2021 12:12
**Lab ID:** MB-160178 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons (SGT) | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl (SGT) | 0.19 | 0.0020 | 0.20 | | 93.0 | 56 | 125 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/21/2021

**Run ID: Run Order:** GCFID-HP5-B_211011A: 4 **SampType:** Laboratory Control Sample **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/11/2021 21:02 **Prep Date:** 10/09/2021 12:12
**Lab ID:** LCS-160178 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 14 | 0.30 | 15 | | 94.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 101.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.19 | 0.0020 | 0.20 | | 95.0 | 56 | 125 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 20 **SampType:** Laboratory Control Sample **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/12/2021 17:00 **Prep Date:** 10/09/2021 12:13
**Lab ID:** LCS-160178-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.5 | 0.30 | 5.0 | | 90.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.18 | 0.0020 | 0.20 | | 91.0 | 56 | 125 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP4-B_211014A: 6 **SampType:** Laboratory Control Sample **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/14/2021 15:53 **Prep Date:** 10/09/2021 12:12
**Lab ID:** LCS-160178 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 14 | 0.30 | 15 | | 95.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons (SGT) | 15 | 0.30 | 15 | | 102.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl (SGT) | 0.20 | 0.0020 | 0.20 | | 98.0 | 56 | 125 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/21/2021

**Run ID: Run Order:** GCFID-HP4-B_211014A: 18 **SampType:** Laboratory Control Sample **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/15/2021 02:29 **Prep Date:** 10/09/2021 12:13
**Lab ID:** LCS-160178-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 4.9 | 0.30 | 5.0 | | 97.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl (SGT) | 0.20 | 0.0020 | 0.20 | | 98.0 | 56 | 125 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 21 **SampType:** Sample Matrix Spike **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/12/2021 18:26 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.3 | 0.59 | 9.8 | 0.68 | 88.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.32 | 0.0039 | 0.39 | 0.0 | 81.0 | 56 | 125 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 22 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/12/2021 19:53 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.1 | 0.59 | 9.8 | 0.68 | 86.0 | 41 | 113 | 9.3 | 2.1 | 20.0 | |
| Surr: o-Terphenyl | 0.35 | 0.0039 | 0.39 | 0.0 | 90.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/21/2021

**Run ID: Run Order:** GCFID-HP5-B_211011A: 23 **SampType:** Sample Matrix Spike **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/12/2021 21:19 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.57 | 28 | 0.49 | 108.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 34 | 0.57 | 28 | 0.93 | 116.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.38 | 0.0038 | 0.38 | 0.0 | 100.0 | 56 | 125 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 24 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/12/2021 22:46 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.57 | 28 | 0.49 | 107.0 | 36 | 132 | 31 | 0.4 | 20.0 | |
| Total Extractable Hydrocarbons | 34 | 0.57 | 28 | 0.93 | 115.0 | 60 | 132 | 34 | 0.4 | 20.0 | |
| Surr: o-Terphenyl | 0.37 | 0.0038 | 0.38 | 0.0 | 99.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP4-B_211014A: 17 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/15/2021 01:43 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 33 | 0.57 | 28 | 0.0 | 115.0 | 36 | 132 | 31 | 7.1 | 20.0 | |
| Total Extractable Hydrocarbons (SGT) | 35 | 0.57 | 28 | 0.0 | 122.0 | 60 | 132 | 33 | 7.0 | 20.0 | |
| Surr: o-Terphenyl (SGT) | 0.41 | 0.0038 | 0.38 | 0.0 | 107.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/21/2021

**Run ID: Run Order:** GCFID-HP4-B_211014A: 19 **SampType:** Sample Matrix Spike **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/15/2021 03:59 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 9.8 | 0.59 | 9.8 | 0.0 | 100.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl (SGT) | 0.34 | 0.0039 | 0.39 | 0.0 | 88.0 | 56 | 125 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP4-B_211014A: 20 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/15/2021 05:30 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 10 | 0.59 | 9.8 | 0.0 | 107.0 | 41 | 113 | 9.8 | 6.4 | 20.0 | |
| Surr: o-Terphenyl (SGT) | 0.42 | 0.0039 | 0.39 | 0.0 | 107.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP4-B_211014A: 26 **SampType:** Sample Matrix Spike **Batch ID:** 160178
**Method:** SW8015C **Analysis Date:** 10/15/2021 14:32 **Prep Date:** 10/10/2021 10:22
**Lab ID:** B21100806-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 31 | 0.57 | 28 | 0.0 | 107.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons (SGT) | 33 | 0.57 | 28 | 0.0 | 114.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl (SGT) | 0.38 | 0.0038 | 0.38 | 0.0 | 101.0 | 56 | 125 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/21/2021

**Run ID: Run Order:** GCFID-HP5-B_211011A: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368573
**Method:** SW8015C **Analysis Date:** 10/11/2021 18:54 **Prep Date:**
**Lab ID:** CCV_1011HP512r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.9 | 0.30 | 5.0 | | 98.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 113.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368573
**Method:** SW8015C **Analysis Date:** 10/11/2021 19:37 **Prep Date:**
**Lab ID:** CCV_1011HP513r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 98.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 102.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 103.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 9 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368573
**Method:** SW8015C **Analysis Date:** 10/12/2021 04:10 **Prep Date:**
**Lab ID:** CCV_1011HP525r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.0 | 0.30 | 5.0 | | 100.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 112.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/21/2021

**Run ID: Run Order:** GCFID-HP5-B_211011A: 10 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368573
**Method:** SW8015C **Analysis Date:** 10/12/2021 04:53 **Prep Date:**
**Lab ID:** CCV_1011HP526r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 103.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 107.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 108.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 18 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368573
**Method:** SW8015C **Analysis Date:** 10/12/2021 14:52 **Prep Date:**
**Lab ID:** CCV_1011HP540r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.6 | 0.30 | 5.0 | | 91.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 105.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

**Run ID: Run Order:** GCFID-HP5-B_211011A: 19 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368573
**Method:** SW8015C **Analysis Date:** 10/12/2021 15:34 **Prep Date:**
**Lab ID:** CCV_1011HP541r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 103.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 106.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 107.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A, B21100806-006A, B21100806-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/21/2021

**Run ID: Run Order:** GCFID-HP4-B_211014A: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368709
**Method:** SW8015C **Analysis Date:** 10/14/2021 11:19 **Prep Date:**
**Lab ID:** CCV_1014HP405r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.0 | 0.30 | 5.0 | | 100.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 115.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A**

**Run ID: Run Order:** GCFID-HP4-B_211014A: 4 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368709
**Method:** SW8015C **Analysis Date:** 10/14/2021 13:38 **Prep Date:**
**Lab ID:** CCV_1014HP408r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 108.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 17 | 0.30 | 15 | | 112.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 112.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A**

**Run ID: Run Order:** GCFID-HP4-B_211014A: 5 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368709
**Method:** SW8015C **Analysis Date:** 10/14/2021 14:23 **Prep Date:**
**Lab ID:** CCV_1014HP409r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 108.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 17 | 0.30 | 15 | | 112.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 112.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/21/2021

**Run ID: Run Order:** GCFID-HP4-B_211014A: 14 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368709
**Method:** SW8015C **Analysis Date:** 10/14/2021 22:42 **Prep Date:**
**Lab ID:** CCV_1014HP420r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.0 | 0.30 | 5.0 | | 101.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 110.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A**

**Run ID: Run Order:** GCFID-HP4-B_211014A: 15 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368709
**Method:** SW8015C **Analysis Date:** 10/14/2021 23:27 **Prep Date:**
**Lab ID:** CCV_1014HP421r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 104.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 108.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 108.0 | 80 | 120 | | | | |

Associated Samples: **B21100806-001A, B21100806-002A, B21100806-003A, B21100806-004A, B21100806-005A**

# Analytical QC Exceptions Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806
**Project:** CV_18F0126/60571032.02.20.01

**Revised Date:** 11/09/2021
**Report Date:** 10/21/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.

# Preparation and Analysis Dates Report

**Work Order:** B21100806
**Client:** AECOM - Honolulu
**Project Name:** CV_18F0126/60571032.02.20.01

**Date Revised:** 11/09/2021
**Report Date:** 10/21/2021

| Lab ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Method | Prep Date | Prep Batch | Analysis Method | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | ERH1784 (RHMW01R) | 10/06/2021 14:10 | Ground Water | Diesel Range Organics | | SW3520C | 10/10/2021 10:21 | 160178 | SW8015C | 10/11/2021 23:11 |
| | | | | | | SW3520C | 10/10/2021 10:21 | 160178 | SW8015C | 10/14/2021 19:40 |
| 002A | ERH1787 (RHMW02) | 10/06/2021 15:30 | Ground Water | Diesel Range Organics | | SW3520C | 10/10/2021 10:22 | 160178 | SW8015C | 10/12/2021 09:52 |
| | | | | | | SW3520C | 10/10/2021 10:22 | 160178 | SW8015C | 10/14/2021 18:55 |
| 003A | ERH1790 (RHMW03) | 10/06/2021 17:00 | Ground Water | Diesel Range Organics | | SW3520C | 10/10/2021 10:22 | 160178 | SW8015C | 10/12/2021 12:00 |
| | | | | | | SW3520C | 10/10/2021 10:22 | 160178 | SW8015C | 10/14/2021 20:26 |
| 004A | ERH1793 (RHMW05) | 10/06/2021 13:12 | Ground Water | Diesel Range Organics | | SW3520C | 10/10/2021 10:22 | 160178 | SW8015C | 10/12/2021 09:09 |
| | | | | | | SW3520C | 10/10/2021 10:22 | 160178 | SW8015C | 10/14/2021 18:09 |
| 005A | ERH1796 (RHMW2254-01) | 10/06/2021 14:35 | Ground Water | Diesel Range Organics | | SW3520C | 10/10/2021 10:22 | 160178 | SW8015C | 10/12/2021 06:19 |
| | | | | | | SW3520C | 10/10/2021 10:22 | 160178 | SW8015C | 10/14/2021 17:24 |
| 006A | ERH1799 (RHSF) | 10/06/2021 12:40 | Drinking Water | Diesel Range Organics | | SW3520C | 10/10/2021 10:22 | 160178 | SW8015C | 10/12/2021 07:44 |
| 007A | ERH1801 (RHSF) | 10/06/2021 12:40 | Drinking Water | Diesel Range Organics | | SW3520C | 10/10/2021 10:22 | 160178 | SW8015C | 10/12/2021 08:27 |

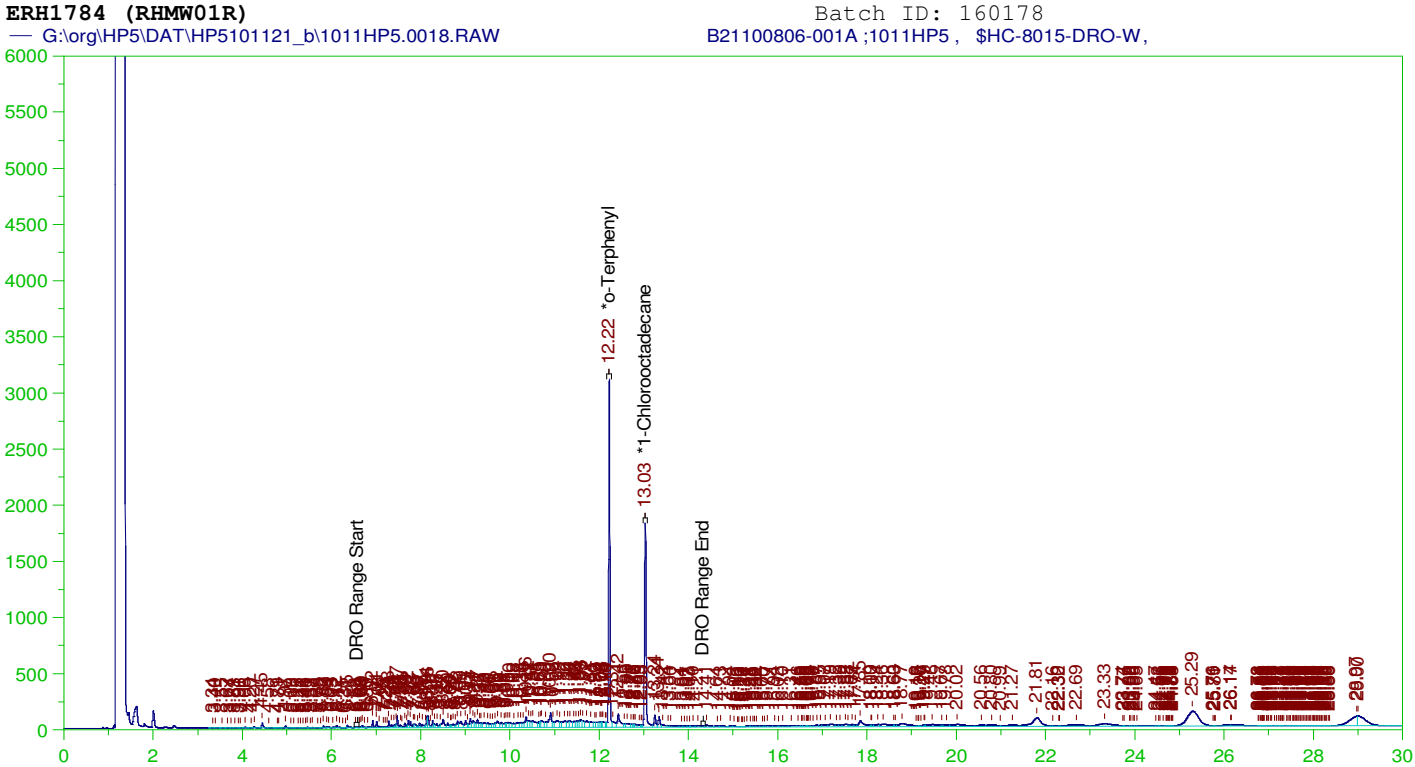
# Chemical Abstracts Service (CAS) Registry Numbers

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100806 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/21/2021

| Analyses | CAS No |
|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | |
| Diesel Range Organics (C10 to C24) | |
| Diesel Range Organics (SGT-C10 to C24) | |
| Oil Range Hydrocarbons (C24 to C40) | |
| Oil Range Hydrocarbons (SGT-C24 to C40) | |
| Total Extractable Hydrocarbons | |
| Total Extractable Hydrocarbons (SGT) | |

**ERH1784 (RHMW01R)** Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0018.RAW
Date & Time Acquired: 10/11/2021 11:11:11 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

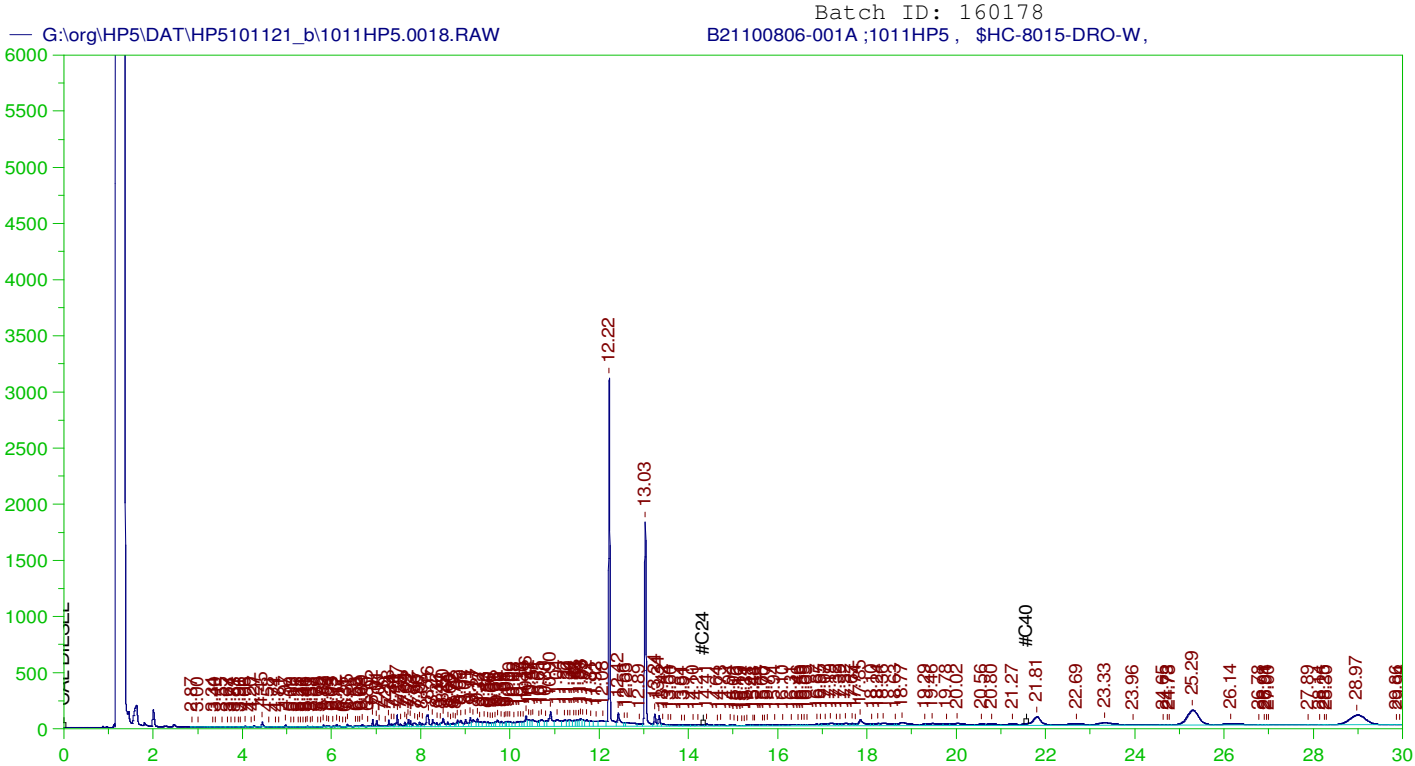
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .19 | .167 | 87.89 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .114 | 59.95 | - |

DRO (C10-C24)Area:1.536242E+07 DRO (C10-C24)Amount: 0.4943264
TEH Area:2.895758E+07 TEH Amount: 0.9317865

AMN 10/13/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0018.RAW
Date & Time Acquired: 10/11/2021 11:11:11 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

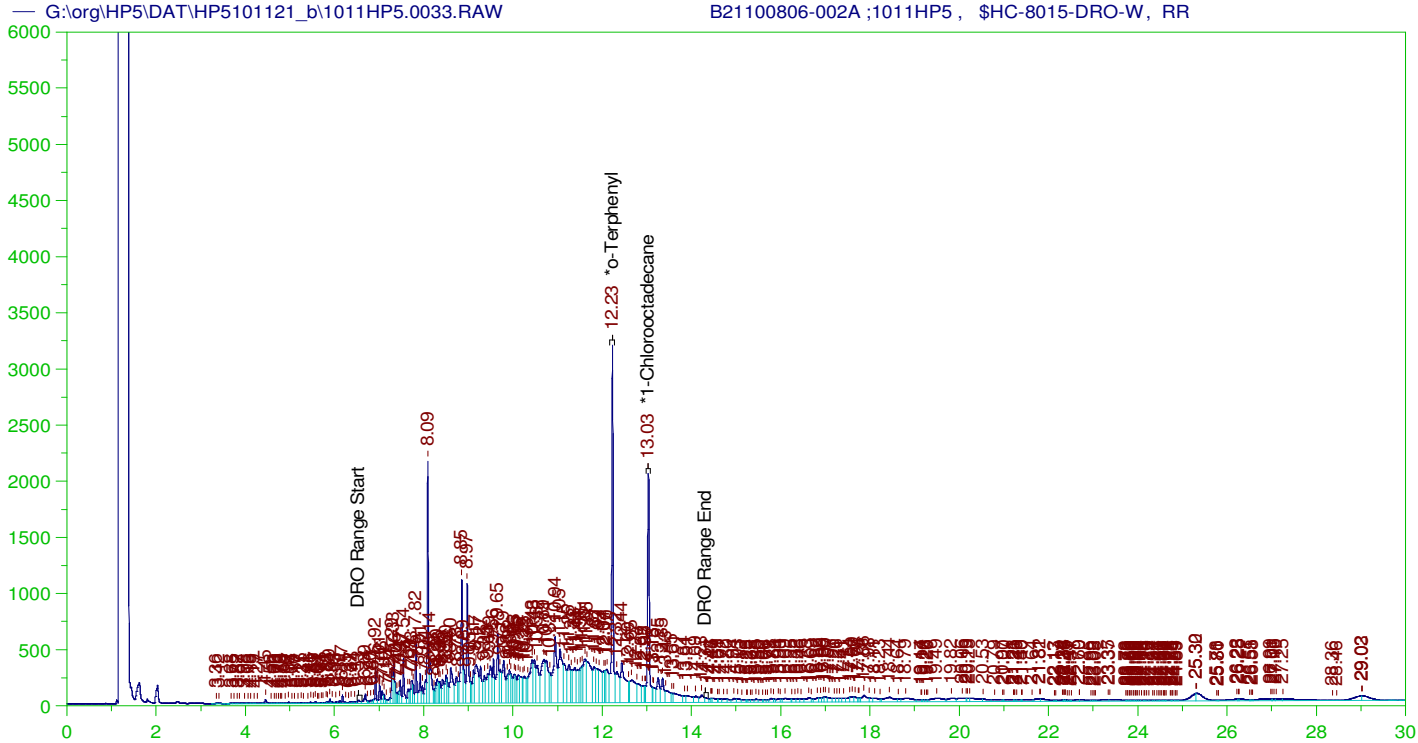
SURROGATE COMPOUND RT ACTUAL MEASURED %REC

~~RRO~~ Oil Range (C24-C40)Area:5362569 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.178086

AMN 10/13/2021

**ERH1787 (RHMW02)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW
Date & Time Acquired: 10/12/2021 9:52:36 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

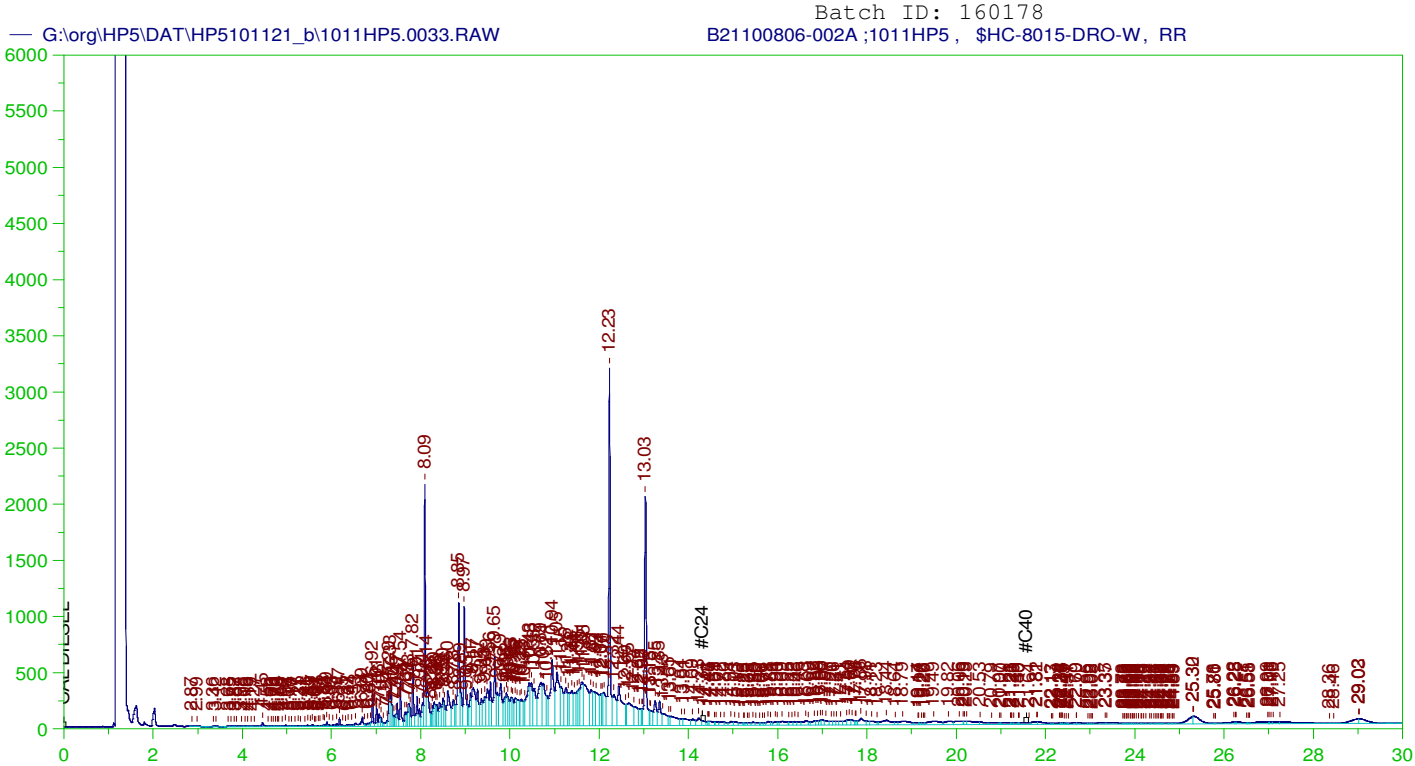
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.226 | .19 | .209 | 110.07 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .143 | 75.36 | - |

DRO (C10-C24)Area:9.782638E+07 DRO (C10-C24)Amount: 3.147821
TEH Area:1.165166E+08 TEH Amount: 3.749227

AMN 10/13/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0033.RAW
Date & Time Acquired: 10/12/2021 9:52:36 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

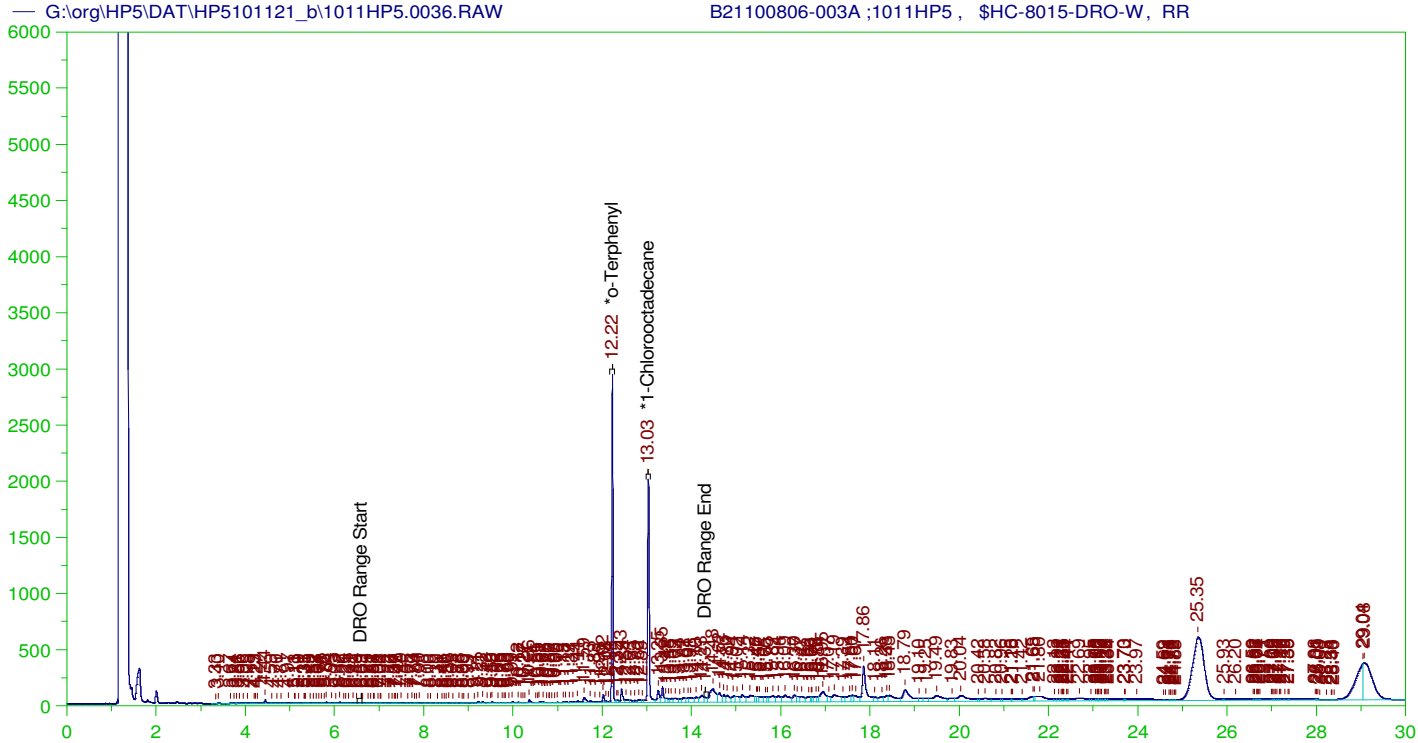
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Oil Range(C24-C40) Area:1.151319E+07 ~~RRO~~ Oil Range(C24-C40) AMOUNT: 0.3823423

AMN 10/13/2021

**ERH1790 (RHMW03)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW
Date & Time Acquired: 10/12/2021 12:00:27 PM
Method File: G:\Org\HP5\Methods\D3_8015-101136-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

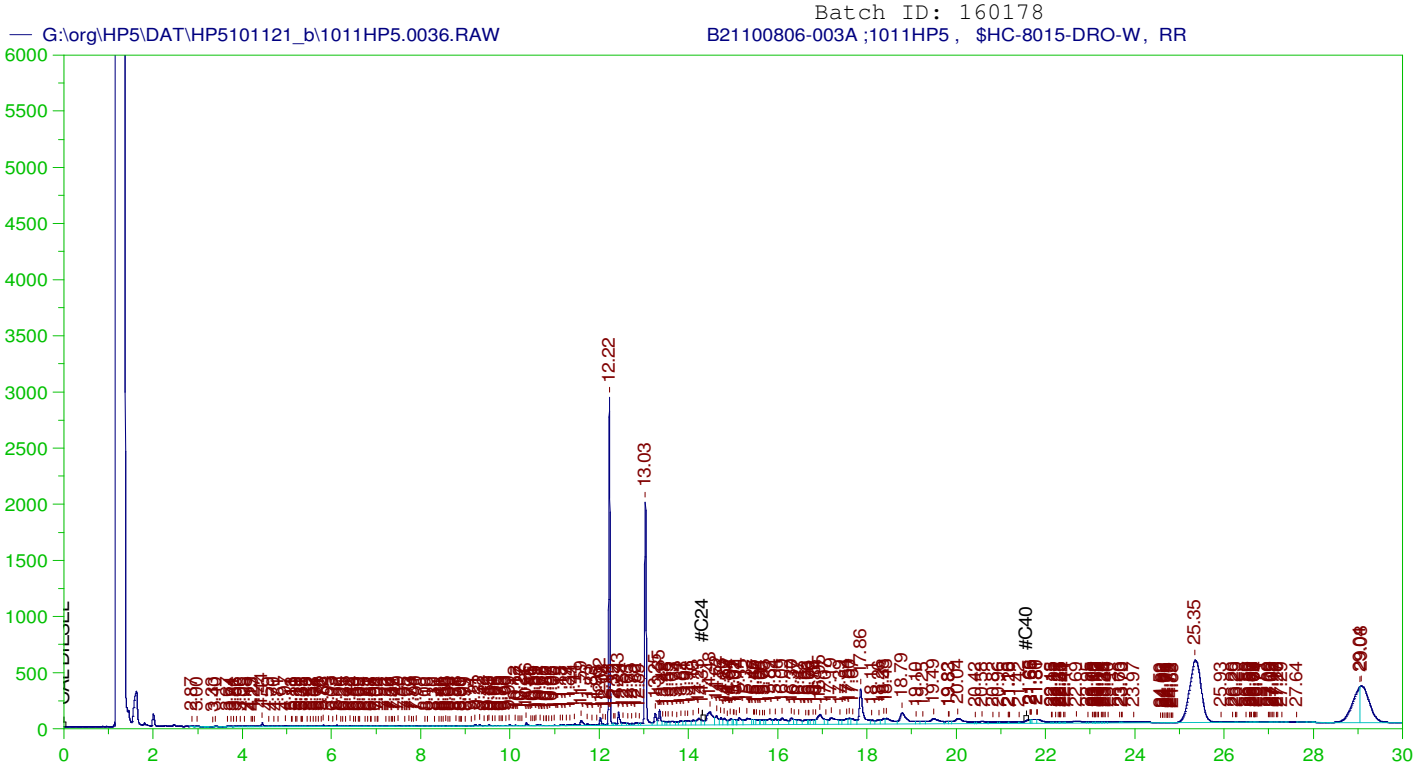
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .19 | .155 | 81.46 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .126 | 66.22 | - |

DRO(C10-C24) Area:5633685 DRO (C10-C24)Amount: 0.1821419
TEH Area:4.957473E+07 TEH Amount: 1.602794

AMN 10/13/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-003A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0036.RAW
Date & Time Acquired: 10/12/2021 12:00:27 PM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

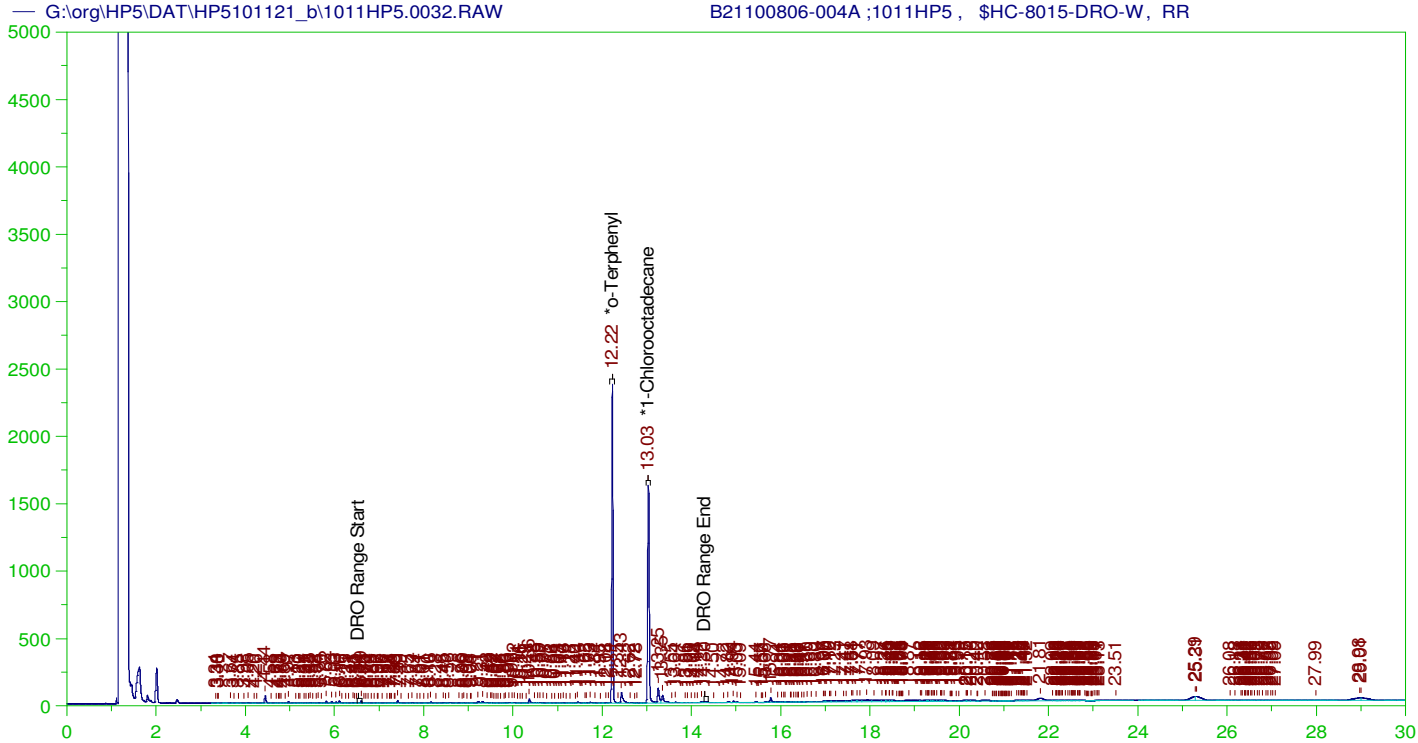
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40)Area:1.719216E+07 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 0.5736546

AMN 10/13/2021

**ERH1793 (RHMW05)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0032.RAW B21100806-004A ;1011HP5 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-004A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0032.RAW
Date & Time Acquired: 10/12/2021 9:09:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-101132-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

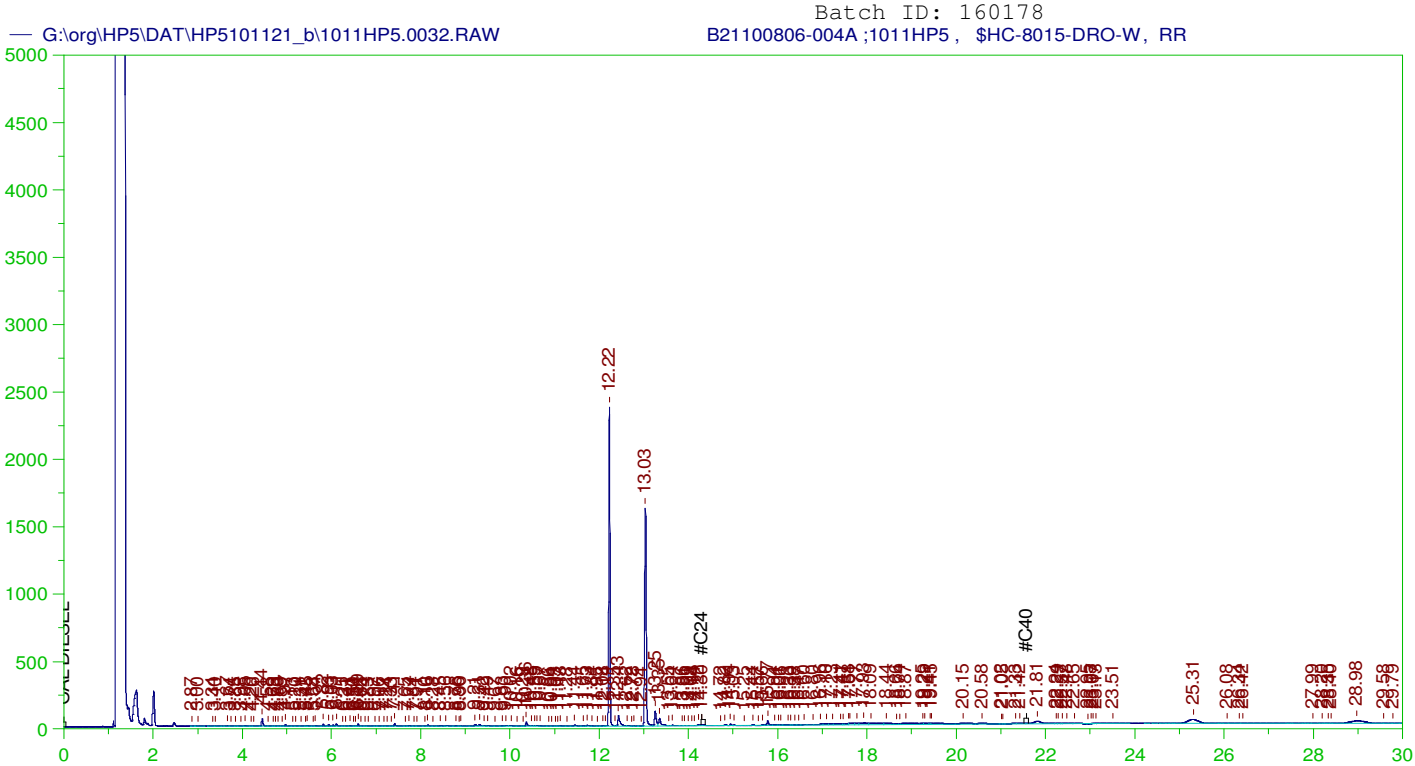
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | .19 | .123 | 64.45 | - |
| *1-Chlorooctadecane | 13.032 | .19 | .097 | 50.84 | - |

DRO (C10-C24)Area:1727432 DRO (C10-C24)Amount: 5.584936E-02
TEH Area:6352013 TEH Amount: 0.2053661

AMN 10/13/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-004A ;1011HP5 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0032.RAW
Date & Time Acquired: 10/12/2021 9:09:58 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-101132-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

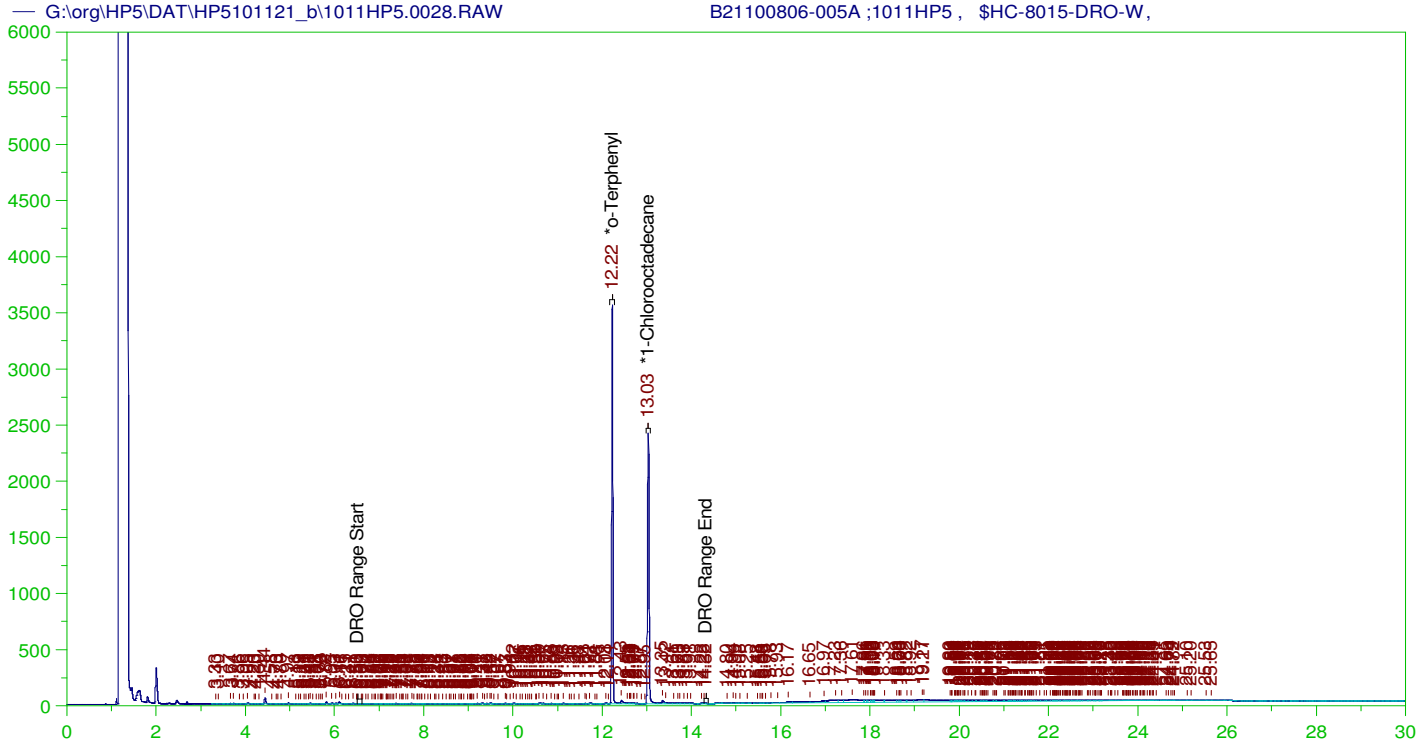
SURROGATE COMPOUND RT ACTUAL MEASURED %REC

~~RRO~~ Oil Range (C24-C40)Area:2602265 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 8.683036E-02

AMN 10/13/2021

**ERH1796 (RHMW2254-01)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW B21100806-005A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-005A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW
Date & Time Acquired: 10/12/2021 6:19:12 AM
Method File: G:\Org\HP5\Methods\D3_8015-101128-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

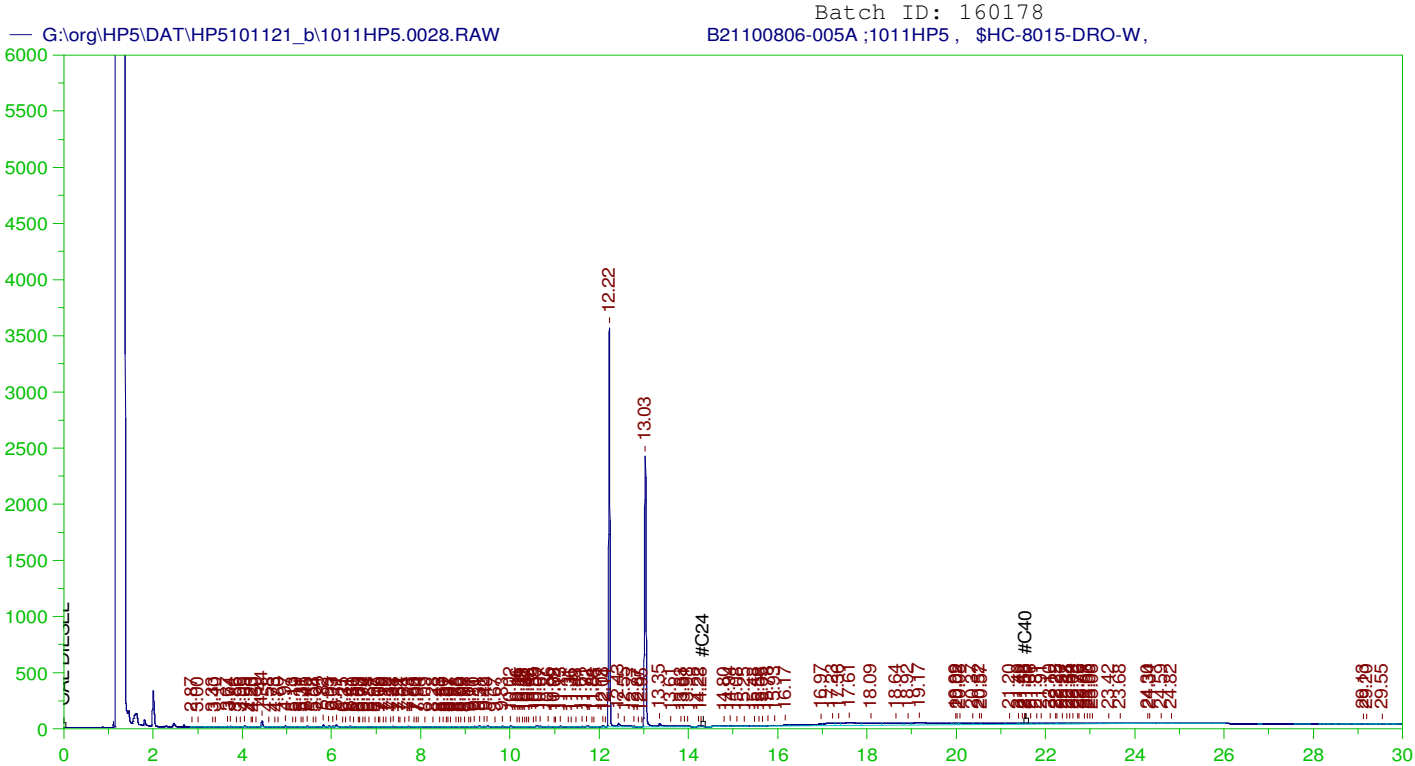
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .189 | .185 | 98.07 | - |
| *1-Chlorooctadecane | 13.03 | .189 | .145 | 76.93 | - |

DRO (C10-C24)Area:772529.4 DRO (C10-C24)Amount: 2.474091E-02
TEH Area:7186767 TEH Amount: 0.2301624

AMN 10/13/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-005A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0028.RAW
Date & Time Acquired: 10/12/2021 6:19:12 AM
Method File: G:\Org\HP5\Methods\D3_OIL-101128-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

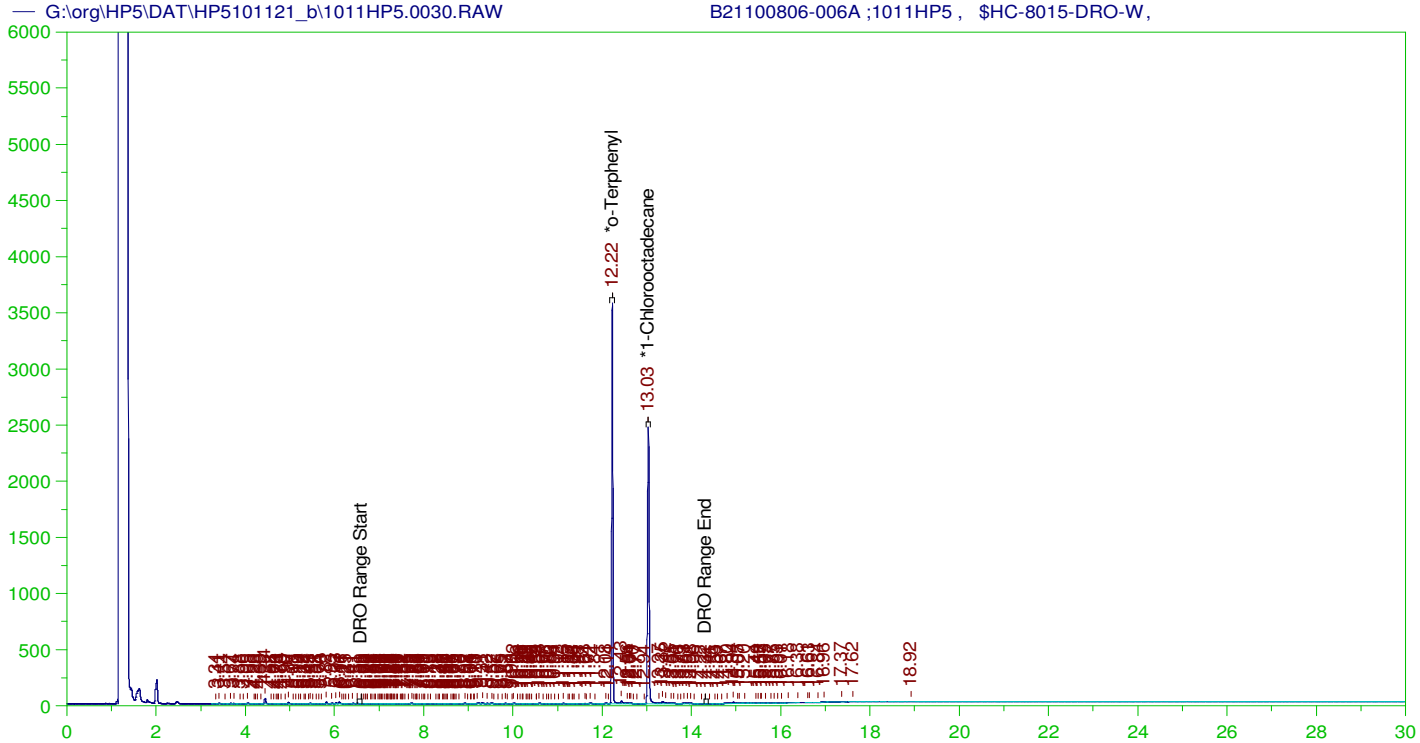
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40)Area:5185679 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 0.1713993

AMN 10/13/2021

**ERH1799 (RHSF)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0030.RAW B21100806-006A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-006A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0030.RAW
Date & Time Acquired: 10/12/2021 7:44:16 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

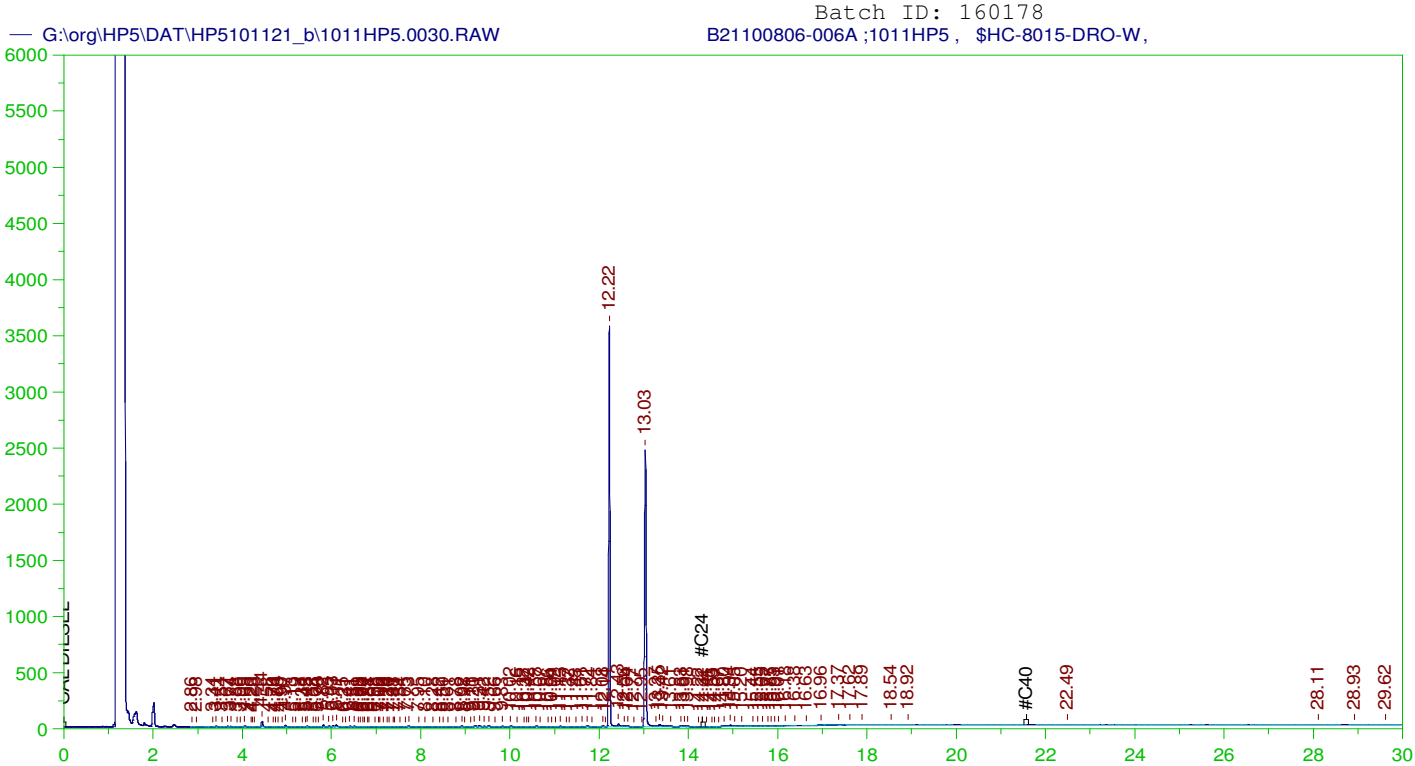
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .192 | .19 | 98.56 | - |
| *1-Chlorooctadecane | 13.031 | .192 | .15 | 77.82 | - |

DRO (C10-C24)Area:727645.1 DRO (C10-C24)Amount: 0.0237516
TEH Area:1354752 TEH Amount: 4.422145E-02

AMN 10/13/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-006A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0030.RAW
Date & Time Acquired: 10/12/2021 7:44:16 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

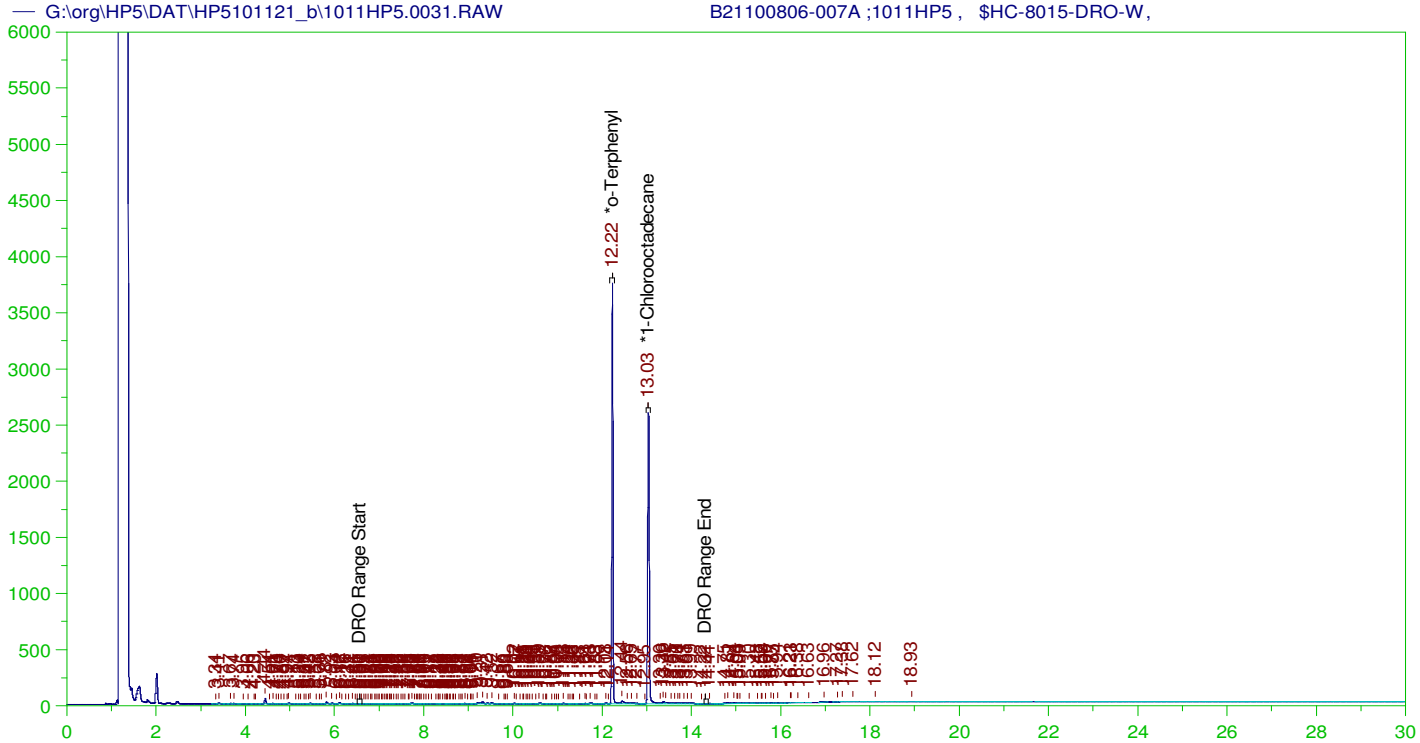
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40)Area:174734 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 5.886449E-03

AMN 10/13/2021

**ERH1801 (RHSF)** Batch ID: 160178

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0031.RAW B21100806-007A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-007A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0031.RAW
Date & Time Acquired: 10/12/2021 8:27:14 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

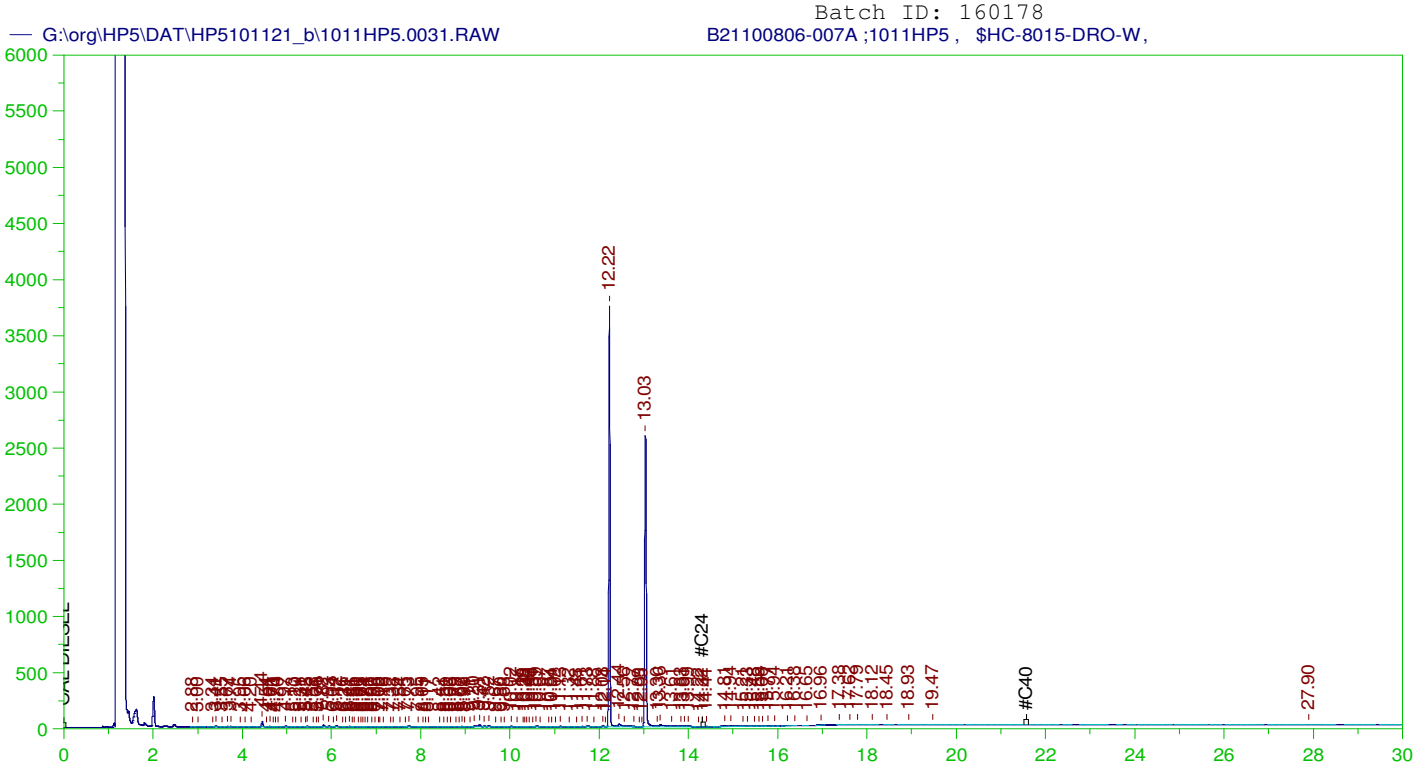
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | .192 | .197 | 102.4 | - |
| *1-Chlorooctadecane | 13.034 | .192 | .157 | 81.7 | - |

DRO (C10-C24)Area:773495.7 DRO (C10-C24)Amount: 2.524824E-02
TEH Area:1348851 TEH Amount: 4.402883E-02

AMN 10/13/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-007A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0031.RAW
Date & Time Acquired: 10/12/2021 8:27:14 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

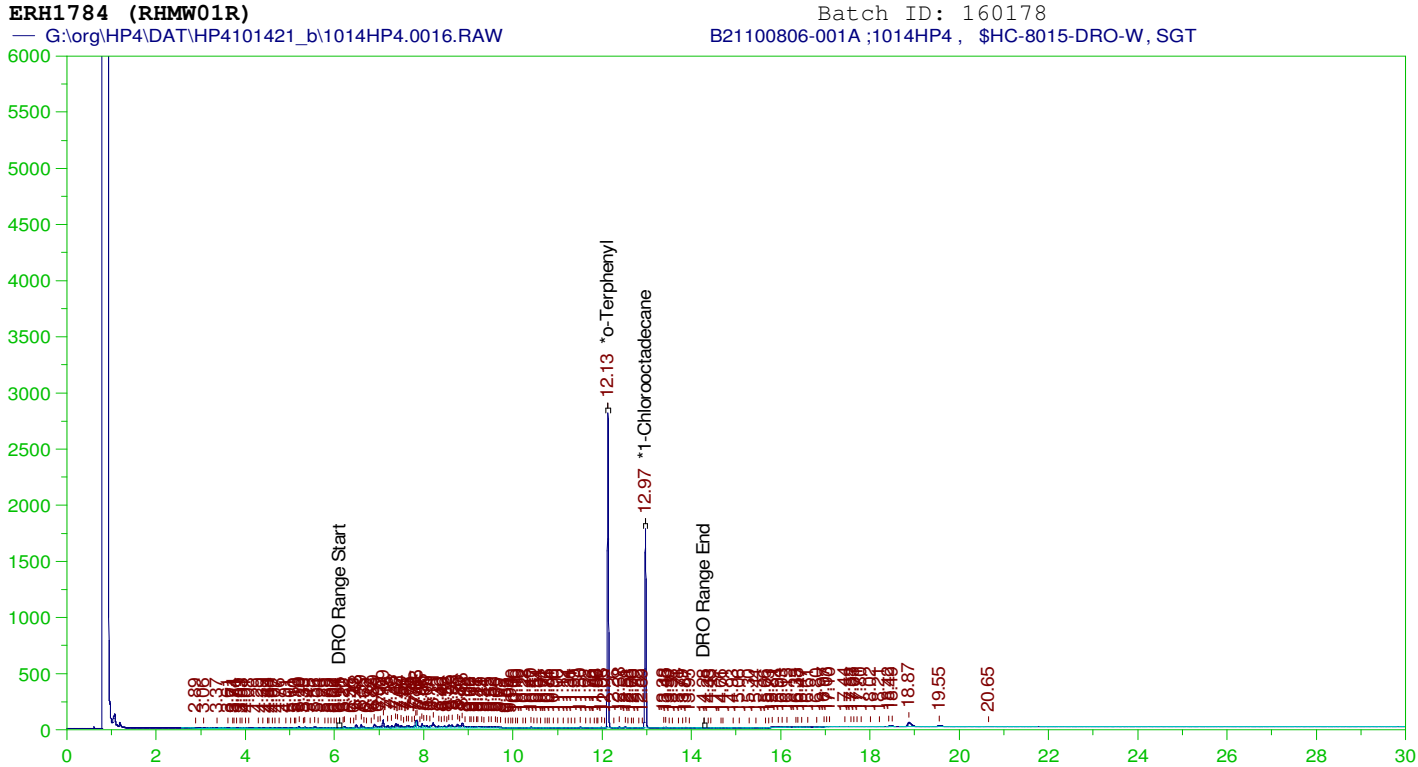
Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40)Area:177677.9 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 5.985624E-03

AMN 10/13/2021

**ERH1784 (RHMW01R)** Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-001A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0016.RAW
Date & Time Acquired: 10/14/2021 7:40:55 PM
Method File: G:\Org\HP4\methods\DR_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

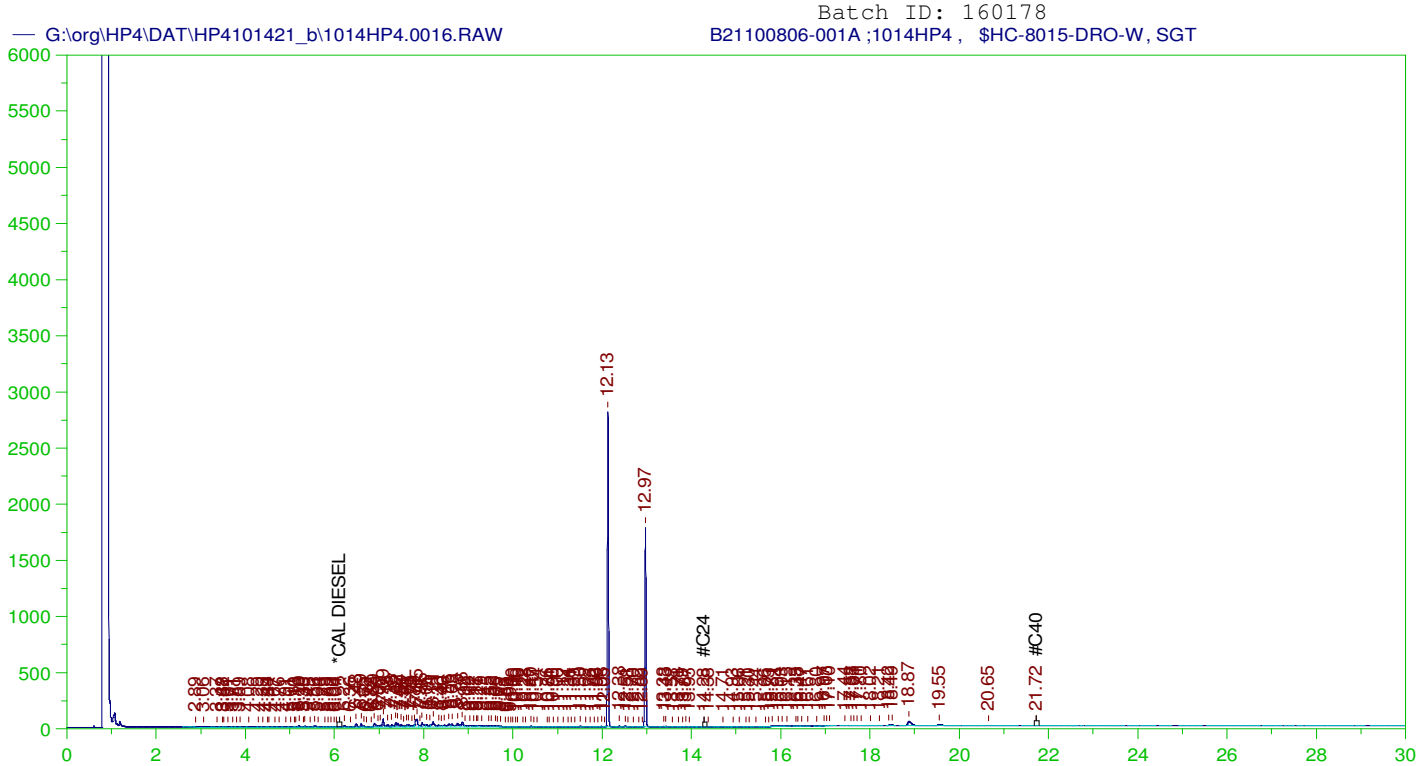
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics(SGT-C10-C24): 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | .19 | .155 | 81.81 | - |
| *1-Chlorooctadecane | 12.966 | .19 | .107 | 56.49 | - |

DRO (SGT-C10-C24)Area:3262404 DRO (SGT-C10-C24)Amount: 0.1188006
TEH (SGT)Area:3836047 TEH (SGT)Amount: 0.1396898

AMN 10/15/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-001A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0016.RAW
Date & Time Acquired: 10/14/2021 7:40:55 PM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40)Calculations: 24529.56
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.25 to 21.78

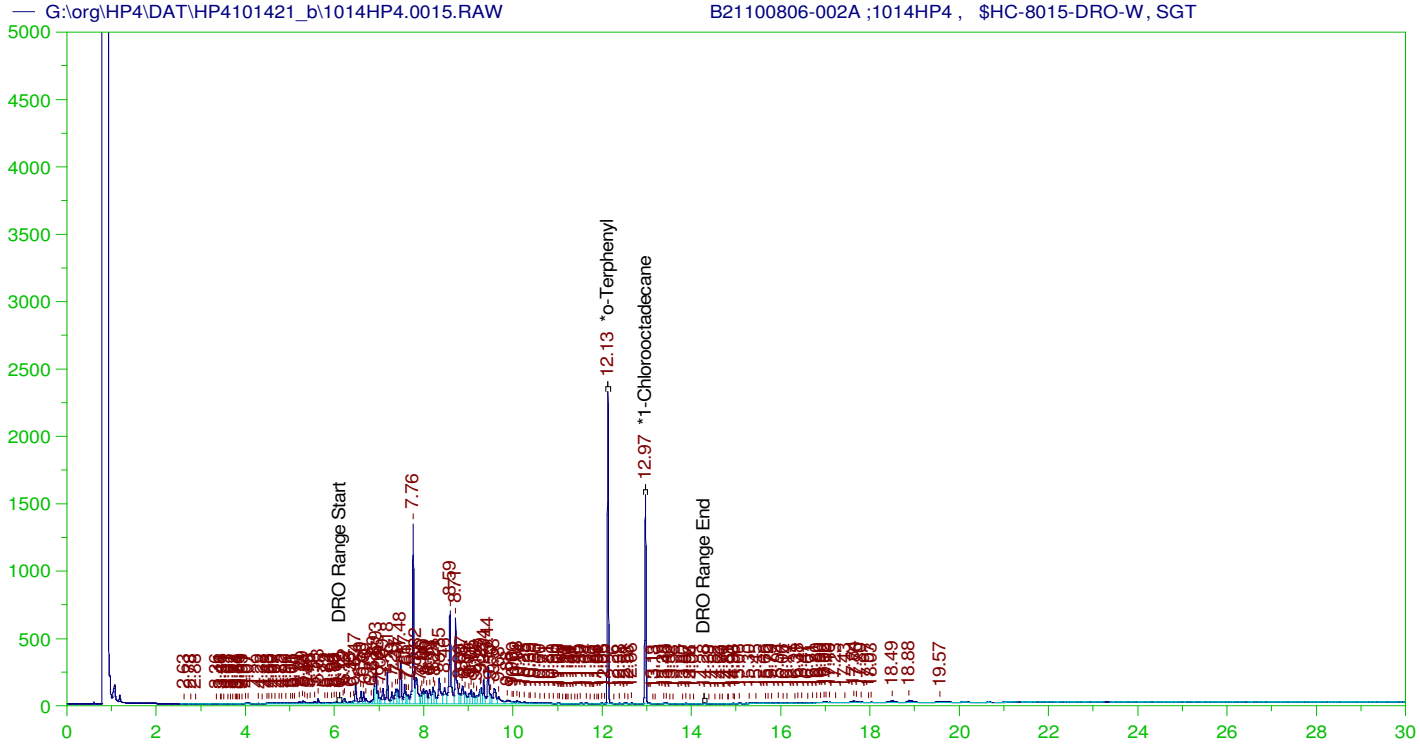
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:352937.4 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 1.363815E-02

AMN 10/15/2021

**ERH1787 (RHMW02)** Batch ID: 160178

— G:\org\HP4\DAT\HP4101421_b\1014HP4.0015.RAW B21100806-002A ;1014HP4 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0015.RAW
Date & Time Acquired: 10/14/2021 6:55:23 PM
Method File: G:\Org\HP4\methods\DR_8015-101415-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

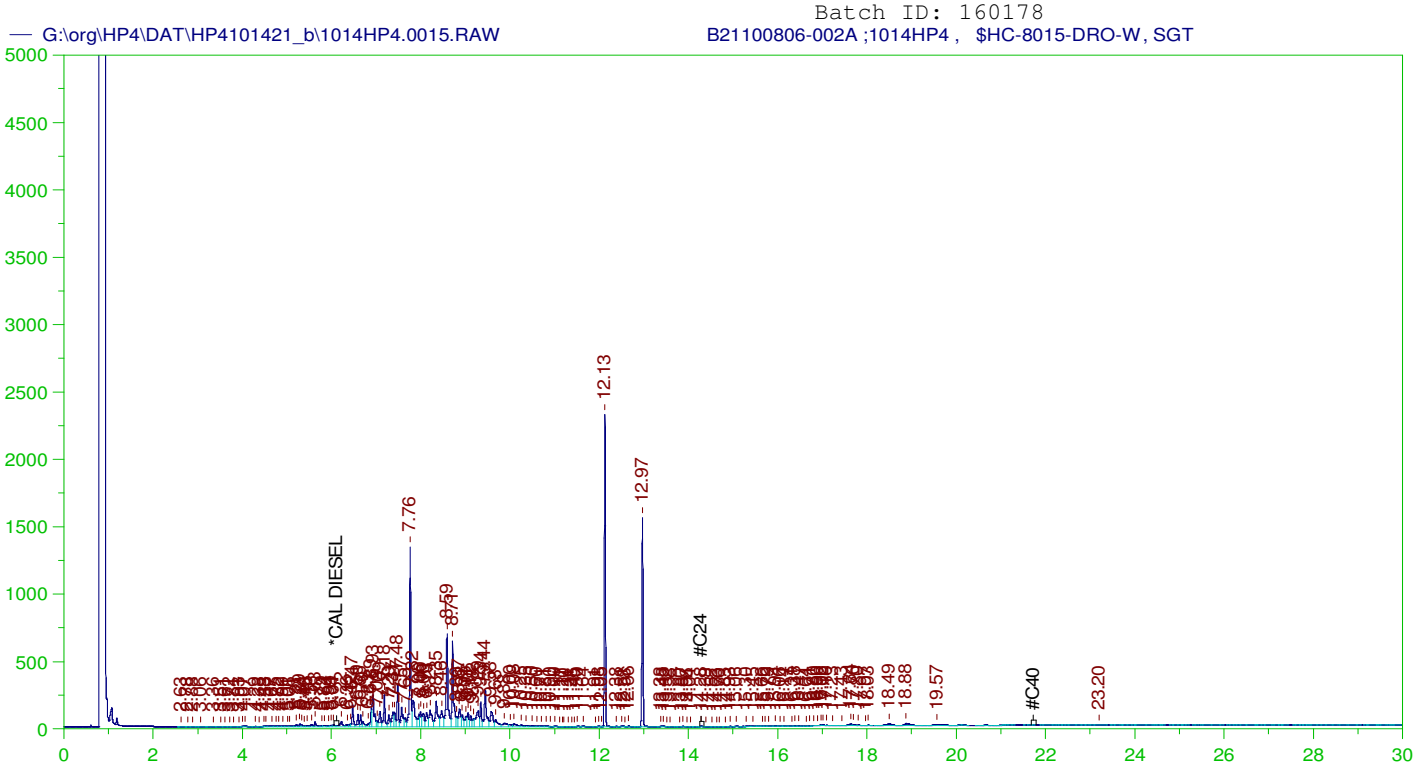
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics(SGT-C10-C24): 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.127 | .19 | .127 | 67.07 | - |
| *1-Chlorooctadecane | 12.967 | .19 | .094 | 49.43 | - |

DRO (SGT-C10-C24)Area:2.06208E+07 DRO (SGT-C10-C24)Amount: 0.7509074
TEH (SGT)Area:2.17187E+07 TEH (SGT)Amount: 0.7908874

AMN 10/15/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-002A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0015.RAW
Date & Time Acquired: 10/14/2021 6:55:23 PM
Method File: G:\Org\HP4\methods\DR_8015-101415-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 24529.56
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.25 to 21.78

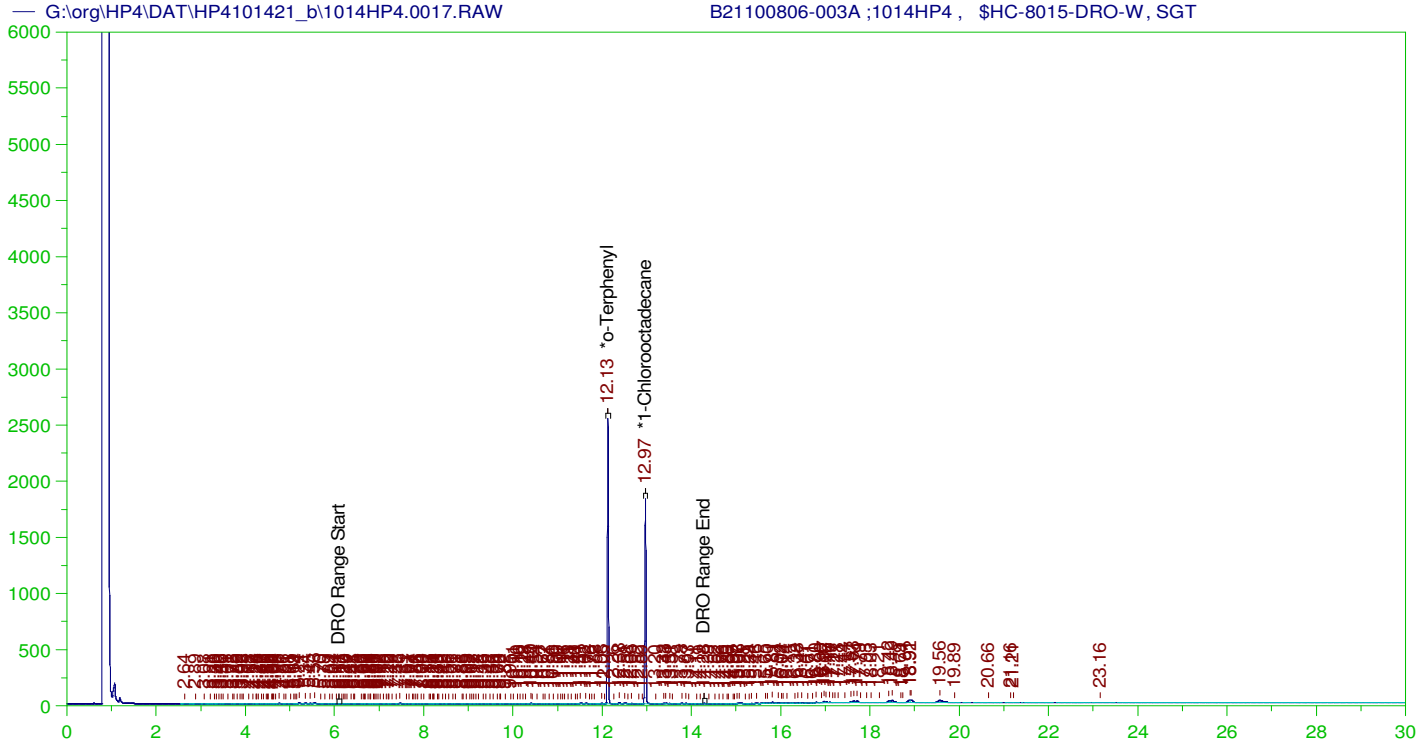
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:495000 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 1.912771E-02

AMN 10/15/2021

**ERH1790 (RHMW03)** Batch ID: 160178

— G:\org\HP4\DAT\HP4101421_b\1014HP4.0017.RAW B21100806-003A ;1014HP4 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-003A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0017.RAW
Date & Time Acquired: 10/14/2021 8:26:27 PM
Method File: G:\Org\HP4\methods\DR_8015-101417-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

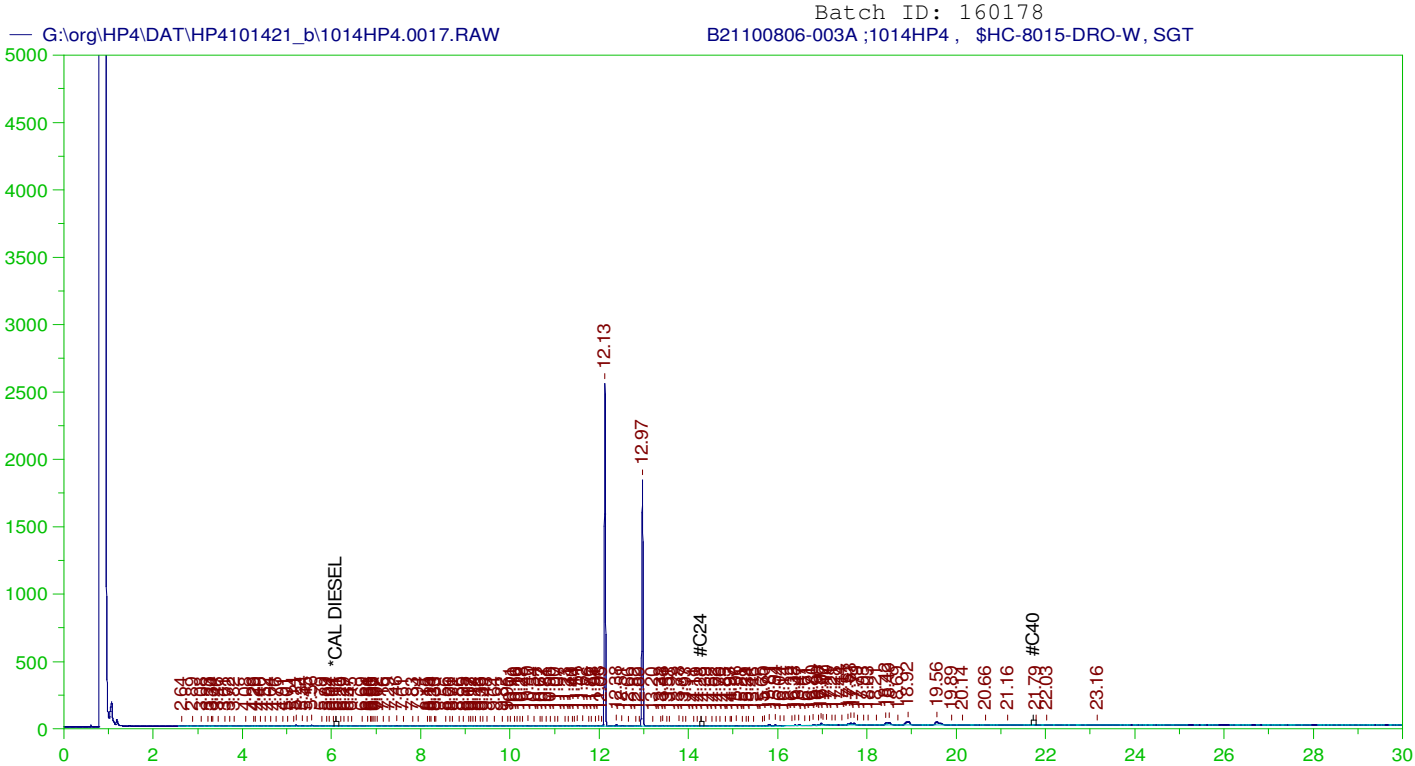
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics(SGT-C10-C24): 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.127 | .19 | .141 | 73.83 | - |
| *1-Chlorooctadecane | 12.966 | .19 | .111 | 58.32 | - |

DRO (SGT-C10-C24)Area:483758.2 DRO (SGT-C10-C24)Amount: 1.769997E-02
TEH (SGT)Area:1781574 TEH (SGT)Amount: 6.518503E-02

AMN 10/15/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-003A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0017.RAW
Date & Time Acquired: 10/14/2021 8:26:27 PM
Method File: G:\Org\HP4\methods\DR_8015-101417-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for R~~esidual~~ Oil Range Organics(SGT-C24-C40)Calculations: 24529.56
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.25 to 21.78

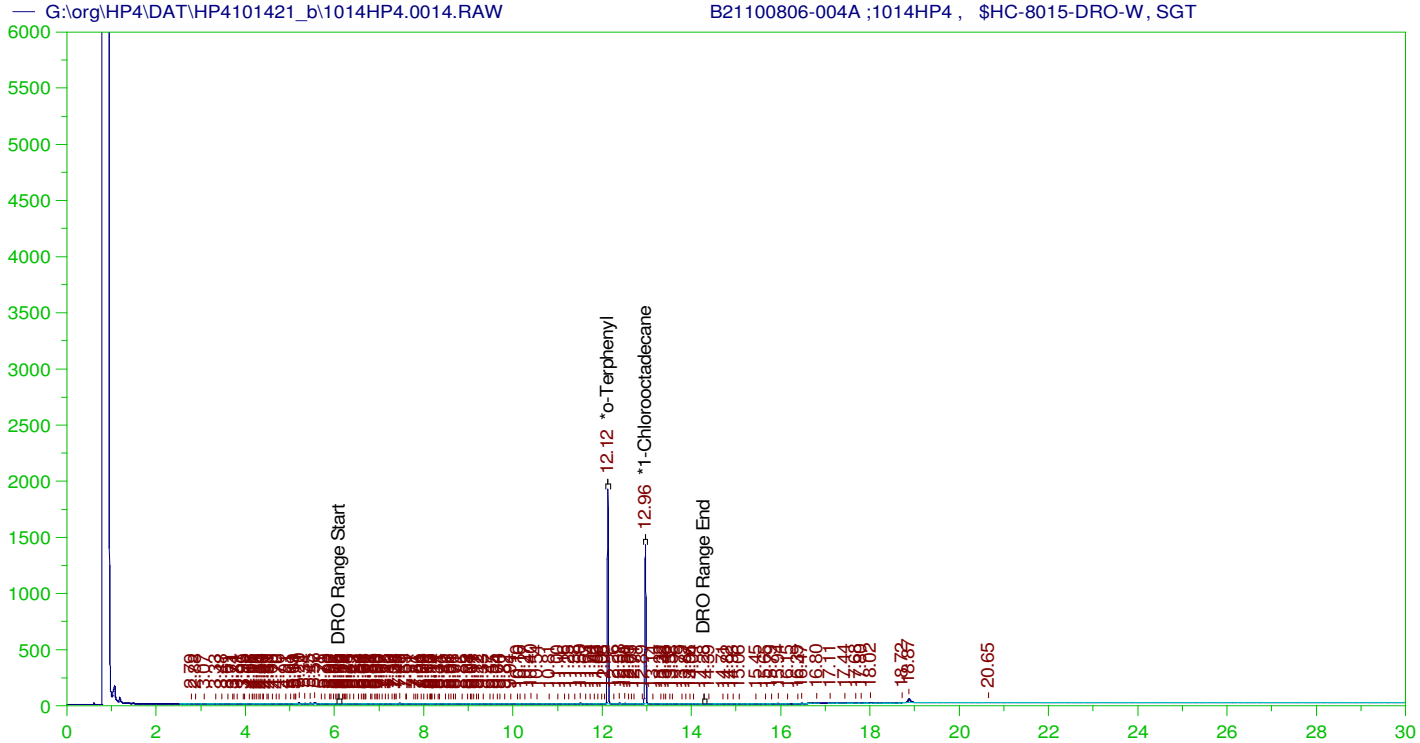
SURROGATE COMPOUND RT ACTUAL MEASURED %REC

~~RRO~~ Oil Range(SGT-C24-C40)Area:1026331 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 3.984818E-02

AMN 10/15/2021

**ERH1793 (RHMW05)** Batch ID: 160178

— G:\org\HP4\DAT\HP4101421_b\1014HP4.0014.RAW B21100806-004A ;1014HP4 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-004A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0014.RAW
Date & Time Acquired: 10/14/2021 6:09:48 PM
Method File: G:\Org\HP4\methods\DR_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

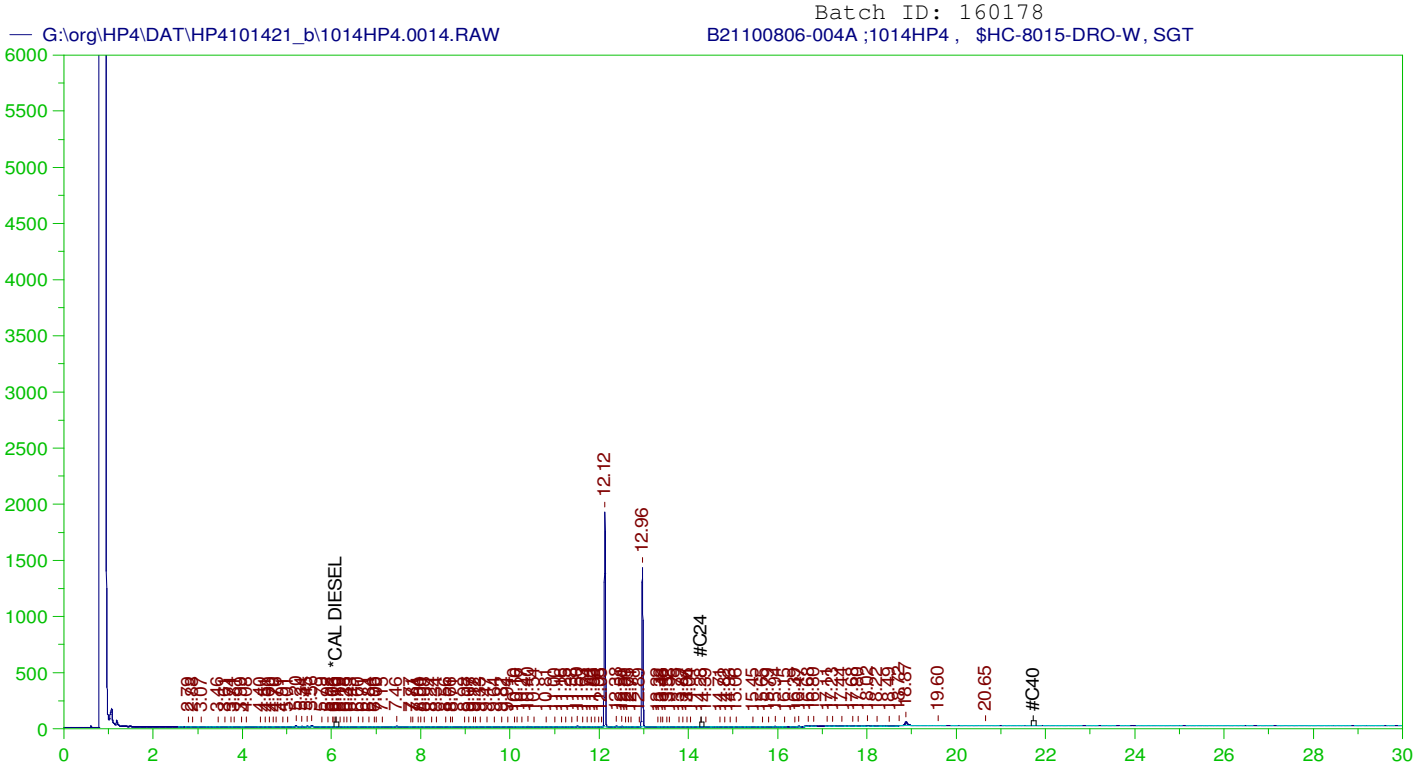
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics(SGT-C10-C24): 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.125 | .19 | .105 | 55.26 | - |
| *1-Chlorooctadecane | 12.965 | .19 | .085 | 44.58 | - |

DRO (SGT-C10-C24)Area:383779.8 DRO (SGT-C10-C24)Amount: 1.404191E-02
TEH (SGT)Area:849917.1 TEH (SGT)Amount: 3.109716E-02

AMN 10/15/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-004A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0014.RAW
Date & Time Acquired: 10/14/2021 6:09:48 PM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 24529.56
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.25 to 21.78

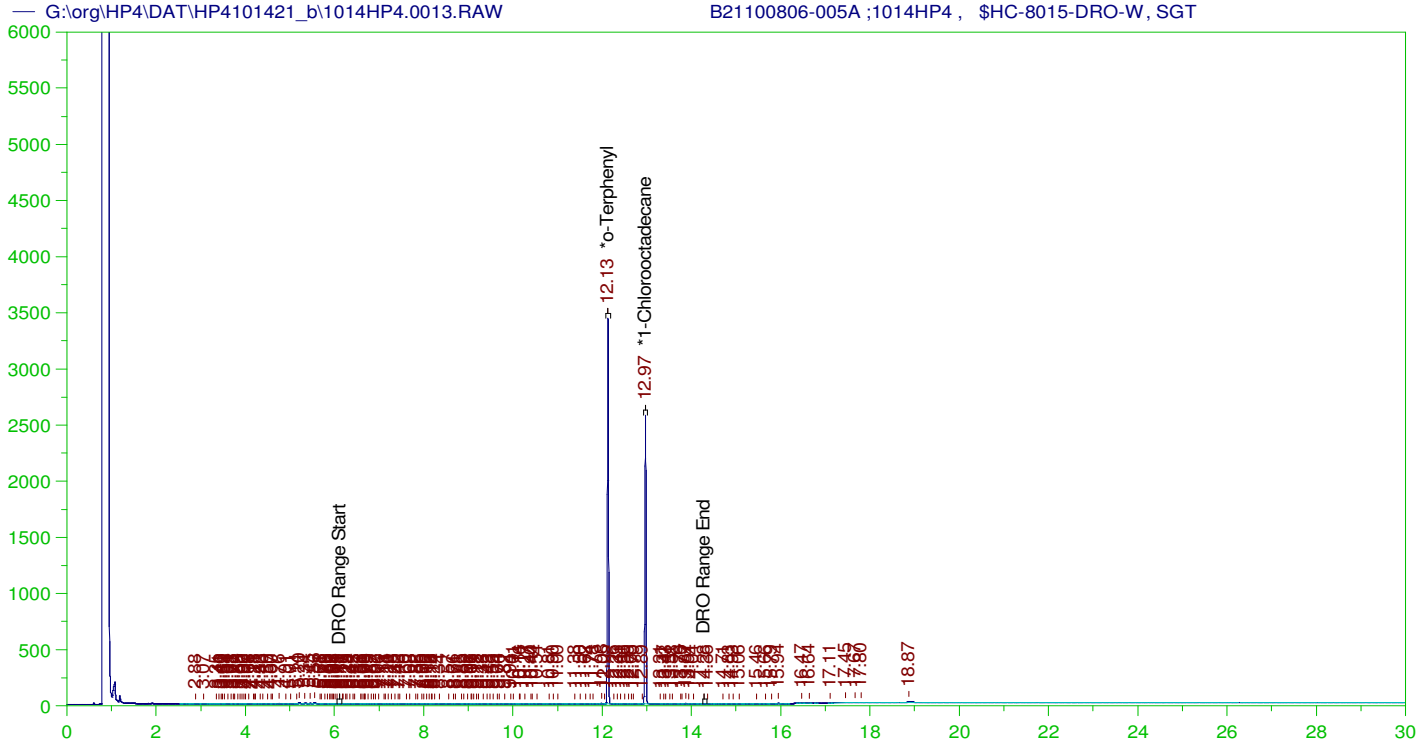
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:248511.2 ~~RRO~~ Oil Range(SGT-C24-C40)AMOUNT: 9.648656E-03

AMN 10/15/2021

**ERH1796 (RHMW2254-01)** Batch ID: 160178

— G:\org\HP4\DAT\HP4101421_b\1014HP4.0013.RAW B21100806-005A ;1014HP4 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-005A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0013.RAW
Date & Time Acquired: 10/14/2021 5:24:01 PM
Method File: G:\Org\HP4\methods\DR_8015-24-MZ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MZ-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

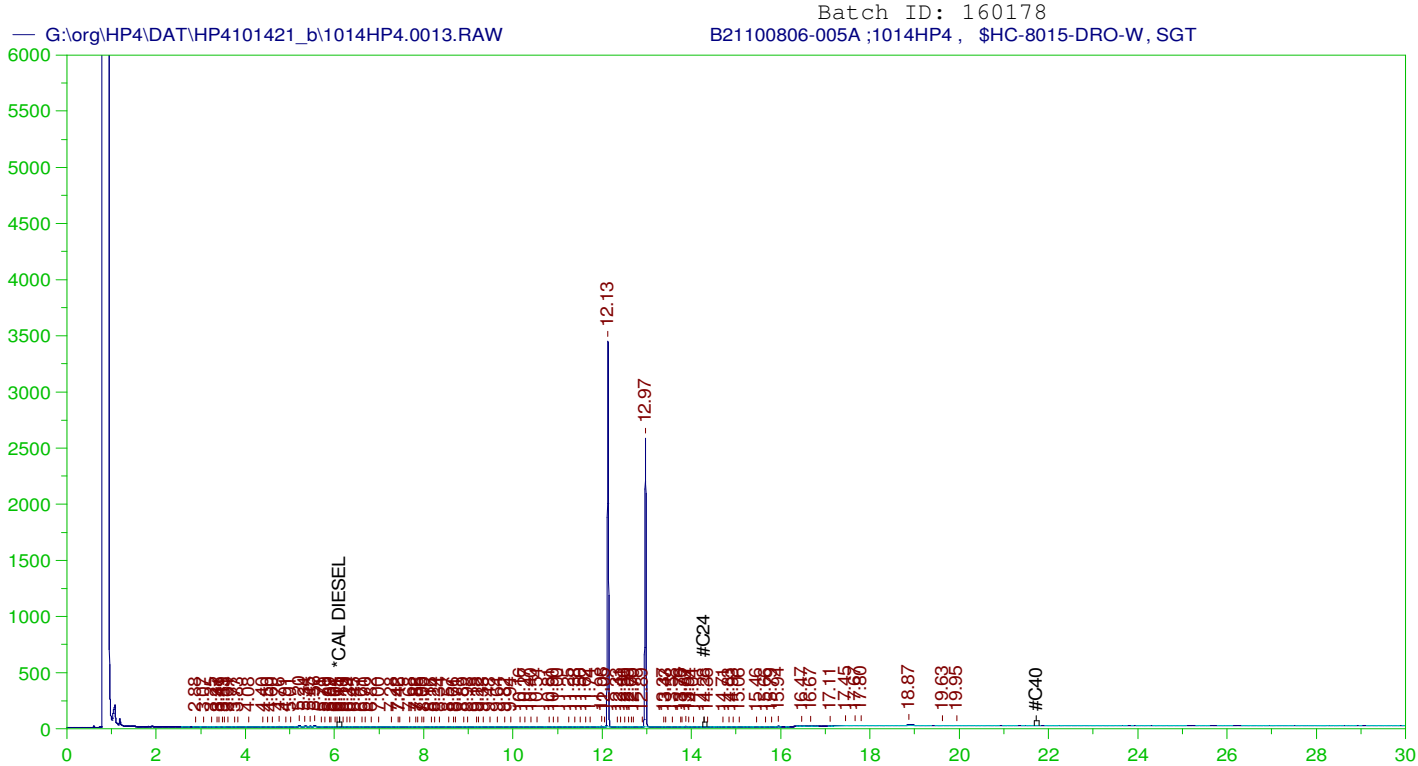
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics(SGT-C10-C24): 6.06 to 14.35

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | .189 | .192 | 101.83 | - |
| *1-Chlorooctadecane | 12.968 | .189 | .155 | 82.35 | - |

DRO (SGT-C10-C24)Area:426861.4 DRO (SGT-C10-C24)Amount: 1.547086E-02
TEH (SGT)Area:836448.9 TEH (SGT)Amount: 3.031565E-02

AMN 10/15/2021

Batch ID: 160178




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100806-005A ;1014HP4 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4101421_b\1014HP4.0013.RAW
Date & Time Acquired: 10/14/2021 5:24:01 PM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AB-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AB-SAMPLE.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 24529.56
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40): 14.25 to 21.78

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range(SGT-C24-C40)Area:116273.8 ~~RRO~~ Oil Range (SGT-C24-C40)AMOUNT: 4.471838E-03

AMN 10/15/2021

**From:** Ramos, Alethea <alethea.ramos@aecom.com>
**Sent:** Friday, November 05, 2021 10:37 PM
**To:** Shari Endy
**Cc:** Pascua, Margie; Hart, Jeff
**Subject:** CV18F0126: CUI_SDGs Requiring Revisions by 11/10

CUI

Hi Shari,

The only revision needed for SDGs indicated in both "Revisions Needed by 11/10" and "Additional Revisions" list is to revise Level 2 Reports to reflect J-flagged detects above the DL. For SDG B21100834, if you could also provide the Level 4 and Level 2 report, that would be greatly appreciated. In "GOOD NO REVISIONS NEEDED" list, those reports are complete. Revised Level 2 reports for SDGs listed under the "Revisions Needed By 11/10" list will be provided to Navy in the RRR Quarterly Report that is due on 11/10 to go through internal review. It was good talking to you and the Energy team today!

**Revisions/Reports Needed By 11/10**
B21092272
B21100125
B21100166
B21100828
B21100834 (missing L4)
B21100806

**Additional Revisions**
B21101306
B21101919

**GOOD NO REVISIONS NEEDED**
B21092273
B21092370
B21100022
B21092660
B21100147
B21100126
B21100171
B21100756
B21100824
B21100827

Have a good weekend,

**Alethea Ramos, CIH**
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CUI

# ANALYTICAL SUMMARY REPORT

November 02, 2021

AECOM - Honolulu
1001 Bishop Street, Suite 1600
Honolulu HI, 96813-3698

Work Order: B21100824 Quote ID: 5912

Project Name: CV18F0126/60571032.02.20.01

Energy Laboratories Inc Billings MT received the following 1 samples from AECOM - Honolulu on 10/11/2021 for analysis.

| Lab ID | Client Sample ID | Collect Date | Received Date | Matrix | Test |
|---|---|---|---|---|---|
| B21100824-001 | ERH1778 (Pre-Chlorination RHSF) | 10/03/21 12:30 | 10/11/2021 | Drinking Water | DRO-Liquid-Liquid Extraction SW3520C<br>Diesel Range Organics SW8015C |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

**CLIENT:** AECOM - Honolulu
**Project:** CV18F0126/60571032.02.20.01
**Work Order:** B21100824

**Report Date:** 11/2/2021

# CASE NARRATIVE

General Comments:

For any question please contact your Project Manager at (406) 252-6325 or billingspm@energylab.com.

All analyses have been performed in accordance with DOD QSM Version 5.3 unless otherwise noted below. The specific methodologies used in obtaining the enclosed analytical results are indicated on the Analytical Summary Report and the Laboratory Analytical Report. The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted in the Work Order Receipt Checklist.

The tests listed below are accredited and meet the requirements of DoD QSM Version 5.3 as verified by ANSI-ASQ National Accreditation Board (ANAB) certificate number ADE-2588. Exceptions to this require client authorization and records documenting this approval are attached in the Sample Management Records. Accreditation may not be offered or required for all methods and analytes reported in this package. Refer to the certificate and scope of accreditation located at https://www.energylab.com/whyus/certifications-quality-control/ or contact your project manager.

Project specific matrix quality control samples may not be reported if site specific samples were not submitted. Matrix quality control samples were performed on project samples where adequate volume was available. All quality control measures met criteria unless otherwise noted in the Analytical QC Exceptions report and in the Analysis Specific Comments below. Where available, sample management records are attached.

The Level IV Validation Package includes data reports for all analyses associated with the instrument calibration, quality control (QC) sample analysis, and sample analysis. All analytical data is within method specifications except as noted in the Analytical QC Exceptions report or the Analysis Specific Comments below. The analytical report identifies preparation batch and analytical run IDs associated with each result for a sample. Only the raw data associated with the parameters listed on this report should be validated.

Analysis Specific Comments:

An Analytical QC Exceptions Report has been attached, summarizing all qualified QC results. All quality control measures met criteria; therefore there were no analytical QC exceptions on this report.

The laboratory calculates hold time to the minute; therefore per laboratory policy, the DRO extraction prep hold time was exceeded by 0.976 days on sample ERH1778 (Pre-Chlorination RHSF), B21100824-001. DOD QSM 5.3 guidance indicates hold time, when specified in days, is calculated to the end of the final day of hold. Per DoD QS M5.3 guidance, this sample was extracted within the hold time.

ENERGY LABORATORIES
Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record 202110-05

DoD Samples

www.energylab.com

COC# NOI

Page 1 of 1

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |
| Special Report/Formats | ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____ |

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 3-weeks.
4. Note "non-PO" on invoice.

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name KL, AM | Sampler Phone 808-636-3319 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**

| | |
|---|---|
| A | Air |
| W | Water |
| S | Soils/Solids |
| V | Vegetation |
| B | Bioassay |
| O | Oil |
| DW | Drinking Water |

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

**Analysis Requested**

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | [redacted] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1778 (pre-chlorination RHSF) | 10/03/2021 | 8:30 am | 2 | W | ✔ | ✔ | | | | | | | | | X | B21100824 |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

10/4/21

**ELI is REQUIRED to provide preservative traceability** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/4/2021 15:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | | 10/11/21 T.a | |

**LABORATORY USE ONLY**

| Shipped By | Cooler ID(s) | Custody Seals Y N C B | Intact Y N | Receipt Temp °C | Temp Blank Y N | On Ice Y N | Payment Type CC Cash Check_____ | Amount $ | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

# Work Order Receipt Checklist

## AECOM - Honolulu

## B21100824

| | | | |
|---|---|---|---|
| Login completed by: | Taylor K. Burris | Date Received: | 10/11/2021 |
| Reviewed by: | BL2000\lcadreau | Received by: | srg |
| Reviewed Date: | 10/13/2021 | Carrier name: | FedEx |

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all sample bottles? | Yes ☑ | No ☐ | Not Present ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes ☐ | No ☑ | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Applicable ☐ |
| Container/Temp Blank temperature: | 17.6°C Melted Ice | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | Not Applicable ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | Not Applicable ☐ |

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### Contact and Corrective Action Comments:

The sample for Diesel Range Organics was received past the 7 day holding time and outside of temperature compliance. Proceed with analysis per Shari Endy, Energy Laboratories Project Manager on 10/11/21.

The collection time indicated on the Chain of Custody for all samples is in Hawaii-Aleutian Standard Time. The collection time has been converted (+4 Hours) to Mountain Daylight Time.

All samples were received in client provided containers using client provided preservative. Energy Laboratories sample preservation traceability is not available.

# Qualifiers and Abbreviations

| Qualifier | Qualifier Description |
|---|---|
| ## | Limit of Quantitation (LOQ) for this analyte exceeds the Maximum Contaminant Level (MCL) |
| * | Result exceeds the Maximum Contaminant Level (MCL) |
| A | The analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated |
| B | Analyte detected in the method blank |
| C | Continuing calibration verification was outside of the quality control advisory limits |
| D | Limit of Quantitation (LOQ) increased due to sample matrix |
| E | Estimated value - result exceeds the instrument upper quantitation limit |
| H | Analysis performed past the method holding time |
| J | The reported result is an estimated value |
| L | Lowest Limit of Quantitation (LOQ) available for the analytical method used |
| N | Analyte concentration was not sufficiently high to calculate a Relative Percent Difference (RPD) for the serial dilution test |
| O | Diluted out |
| P | Poor method performance - method validations have shown no recoveries at low concentrations or method performance was erratic |
| Q | Values reported below the Limit of Quantitation (LOQ) are statistically invalid |
| R | Relative Percent Difference (RPD) exceeds advisory limit |
| S | Spike recovery outside of advisory limits |
| T | Analyte detected in the associated trip blank |
| U | Not detected at the Limit of Detection (LOD) |
| V | The RPD value for this duplicate represents the RER value and the RPDLimit of 2 is the RER upper limit. |

# Qualifiers and Abbreviations

## Abbreviation

| Reporting | Explanation of Abbreviation |
|---|---|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MCL | Maximum Contaminant Level |
| MDC | Minimum Detectable Concentration |
| ND | Not detected at the Limit of Quantitaton (LOQ) |
| RBSL | Risk-Based Screening Levels |
| REC | Recovery |
| RER | Relative Error Ratio |
| RPD | Relative Percent Difference |
| SPK | Spike |

| Sample Types | Explanation of Abbreviation |
|---|---|
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification Standard |
| DUP | Sample Duplicate |
| ICSA | Interference Check Sample A |
| ICSAB | Interference Check Sample AB |
| ICV | Initial Calibration Verification Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LFB | Laboratory Fortified Blank |
| LRB | Laboratory Reagent Blank |
| MBLK | Method Blank |
| MS | Sample Matrix Spike |
| MSD | Sample Matrix Spike Duplicate |
| PDS | Post Digestion/Distillation Spike |
| QCS | Quality Control Sample |
| SD | Serial Dilution |
| SRM | Standard Reference Material |

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1778 (Pre-Chlorination RHSF)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21100824-001
**Collection Date:** 10/03/2021 12:30
**Date Received:** 10/11/2021
**Report Date:** 11/02/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/13/2021 05:12/amn | GCFID-HP5-B_211011B : 6 | 160213 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.084 | | SW8015C | 10/13/2021 05:12/amn | GCFID-HP5-B_211011B : 6 | 160213 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.071 | | SW8015C | 10/13/2021 05:12/amn | GCFID-HP5-B_211011B : 6 | 160213 |
| Surr: o-Terphenyl | 100.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/13/2021 05:12/amn | GCFID-HP5-B_211011B : 6 | 160213 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100824
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211011B: 5 **SampType:** Method Blank **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/13/2021 04:29 **Prep Date:** 10/11/2021 11:55
**Lab ID:** MB-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 111.0 | 56 | 125 | | | | |

Associated Samples: **B21100824-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011B: 4 **SampType:** Laboratory Control Sample **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/13/2021 03:47 **Prep Date:** 10/11/2021 11:55
**Lab ID:** LCS-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 102.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 110.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 105.0 | 56 | 125 | | | | |

Associated Samples: **B21100824-001A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 13 **SampType:** Laboratory Control Sample **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 04:52 **Prep Date:** 10/11/2021 11:55
**Lab ID:** LCS-RRO-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 93.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 102.0 | 56 | 125 | | | | |

Associated Samples: **B21100824-001A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100824
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211013B: 14 **SampType:** Sample Matrix Spike **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 06:18 **Prep Date:** 10/11/2021 11:56
**Lab ID:** B21100827-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.4 | 0.58 | 9.7 | 0.44 | 92.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.26 | 0.0039 | 0.39 | 0.0 | 68.0 | 56 | 125 | | | | |

Associated Samples: **B21100824-001A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 15 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 07:43 **Prep Date:** 10/11/2021 11:56
**Lab ID:** B21100827-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.4 | 0.58 | 9.7 | 0.44 | 93.0 | 41 | 113 | 9.4 | 0.9 | 20.0 | |
| Surr: o-Terphenyl | 0.24 | 0.0039 | 0.39 | 0.0 | 61.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100824-001A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 16 **SampType:** Sample Matrix Spike **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 09:08 **Prep Date:** 10/11/2021 11:55
**Lab ID:** B21100827-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.60 | 30 | 0.22 | 102.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 33 | 0.60 | 30 | 0.67 | 108.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.42 | 0.0040 | 0.40 | 0.0 | 104.0 | 56 | 125 | | | | |

Associated Samples: **B21100824-001A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100824
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211013B: 17 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 10:34 **Prep Date:** 10/11/2021 11:55
**Lab ID:** B21100827-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.60 | 30 | 0.22 | 103.0 | 36 | 132 | 31 | 0.4 | 20.0 | |
| Total Extractable Hydrocarbons | 34 | 0.60 | 30 | 0.67 | 110.0 | 60 | 132 | 33 | 2.0 | 20.0 | |
| Surr: o-Terphenyl | 0.36 | 0.0040 | 0.40 | 0.0 | 89.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100824-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011B: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368594
**Method:** SW8015C **Analysis Date:** 10/13/2021 00:55 **Prep Date:**
**Lab ID:** CCV_1011HP554r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.0 | 0.30 | 5.0 | | 100.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 113.0 | 80 | 120 | | | | |

Associated Samples: **B21100824-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011B: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368594
**Method:** SW8015C **Analysis Date:** 10/13/2021 01:38 **Prep Date:**
**Lab ID:** CCV_1011HP555r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 105.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 109.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 110.0 | 80 | 120 | | | | |

Associated Samples: **B21100824-001A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100824
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211011B: 10
**SampType:** Continuing Calibration Verification Standard
**Batch ID:** R368594
**Method:** SW8015C
**Analysis Date:** 10/13/2021 10:55
**Prep Date:**
**Lab ID:** CCV_1011HP568r
**Units:** mg/L
**Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.0 | 0.30 | 5.0 | | 101.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 112.0 | 80 | 120 | | | | |

Associated Samples: **B21100824-001A**

**Run ID: Run Order:** GCFID-HP5-B_211011B: 11
**SampType:** Continuing Calibration Verification Standard
**Batch ID:** R368594
**Method:** SW8015C
**Analysis Date:** 10/13/2021 11:38
**Prep Date:**
**Lab ID:** CCV_1011HP569r
**Units:** mg/L
**Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 100.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 103.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 104.0 | 80 | 120 | | | | |

Associated Samples: **B21100824-001A**

# Analytical QC Exceptions Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100824
**Project:** CV18F0126/60571032.02.20.01

**Report Date:** 11/02/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.

# Preparation and Analysis Dates Report

**Work Order:** B21100824
**Client:** AECOM - Honolulu
**Project Name:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

| Lab ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Method | Prep Date | Prep Batch | Analysis Method | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | ERH1778 (Pre-Chlorination RHSF) | 10/03/2021 12:30 | Drinking Water | Diesel Range Organics | | SW3520C | 10/11/2021 12:17 | 160213 | SW8015C | 10/13/2021 05:12 |

# Chemical Abstracts Service (CAS) Registry Numbers

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu

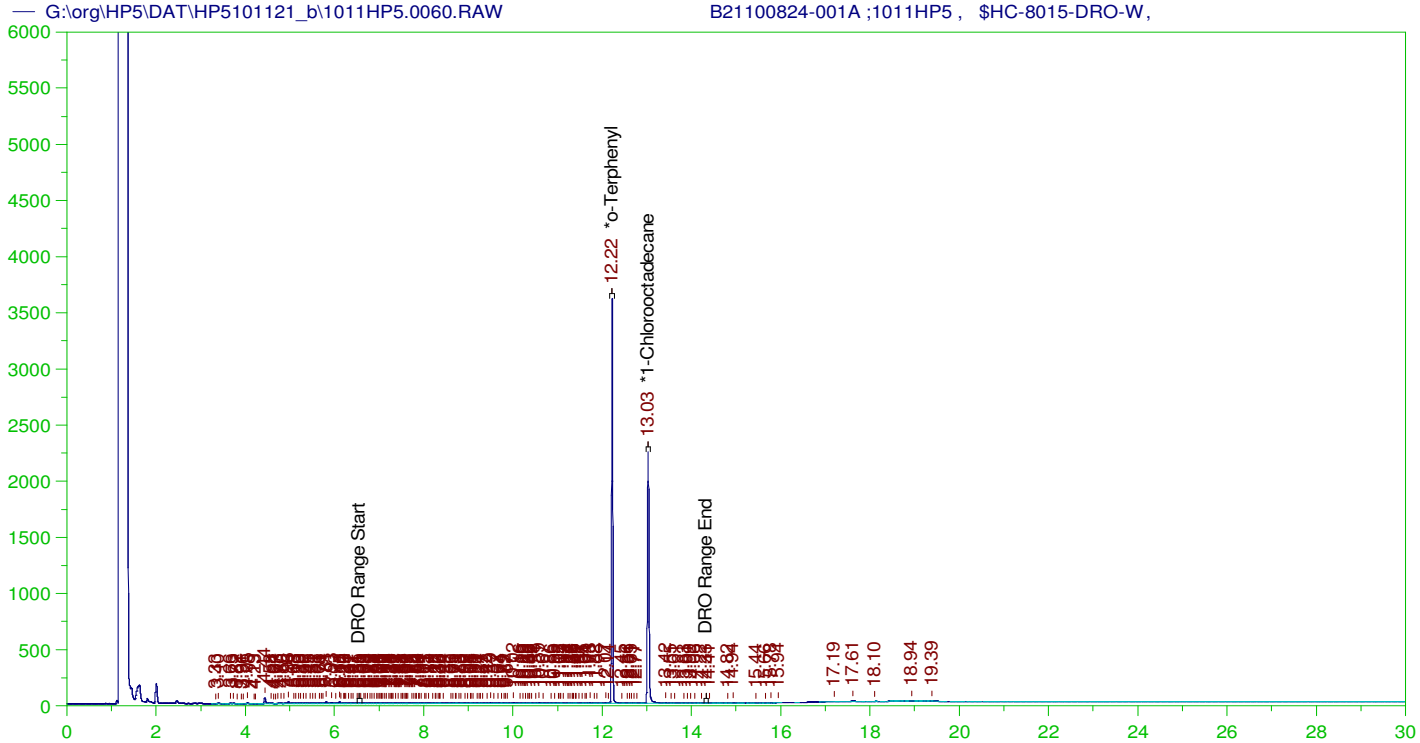
**Workorder:** B21100824

**Project:** CV18F0126/60571032.02.20.01 **Report Date:** 11/02/2021

| Analyses | CAS No |
|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | |
| Diesel Range Organics (C10 to C24) | |
| Oil Range Hydrocarbons (C24 to C40) | |
| Total Extractable Hydrocarbons | |

**ERH1778 (Pre-Chlorination RHSF)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW B21100824-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100824-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW
Date & Time Acquired: 10/13/2021 5:12:46 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

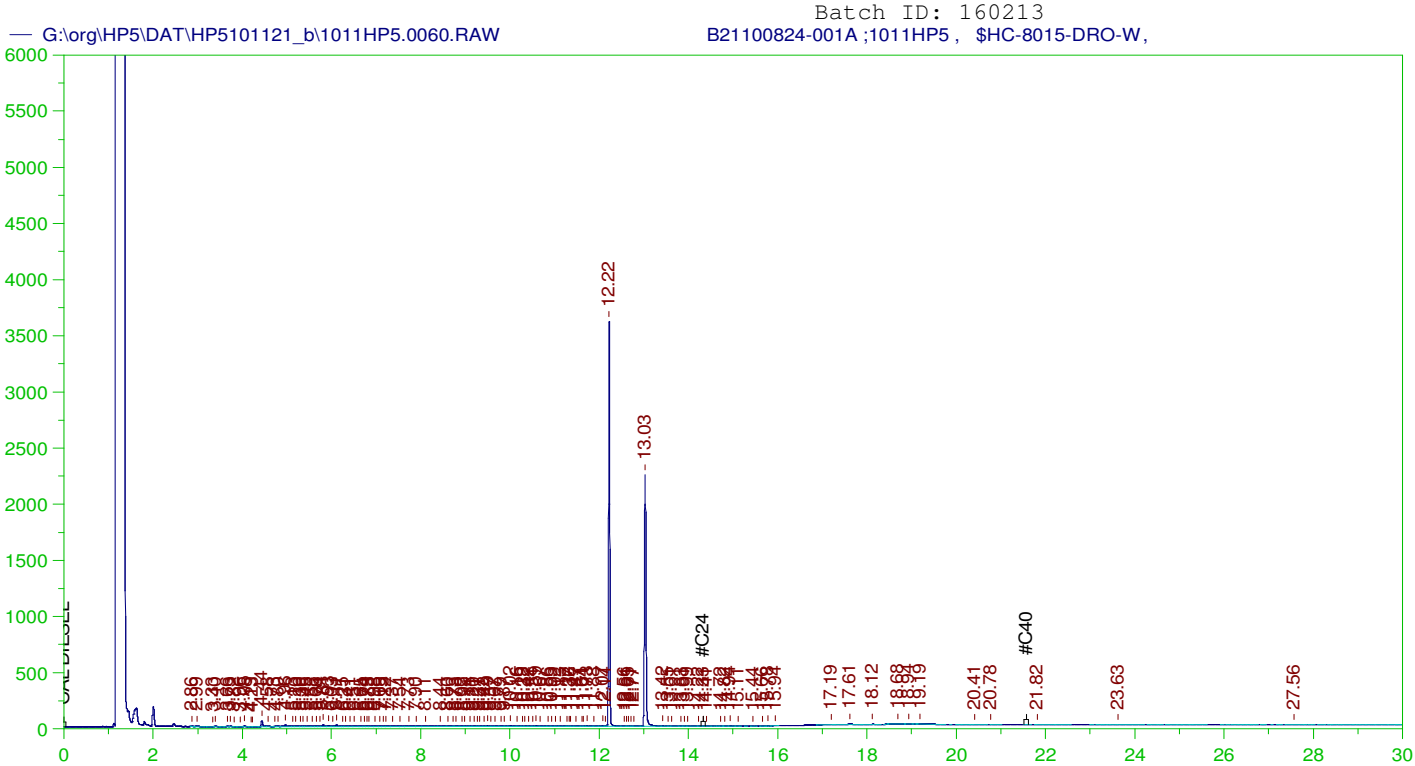
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .191 | 100.23 | - |
| *1-Chlorooctadecane | 13.028 | .19 | .139 | 73.23 | - |

DRO (C10-C24)Area:655430.4 DRO (C10-C24)Amount: 2.119063E-02
TEH Area:1210697 TEH Amount: 3.914286E-02

AMN 10/14/2021

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100824-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW
Date & Time Acquired: 10/13/2021 5:12:46 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

SURROGATE COMPOUND RT ACTUAL MEASURED %REC

~~RRO~~ Oil Range (C24-C40)Area:101816.1 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 3.397321E-03

AMN 10/14/2021

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*07-May-21*

**Run ID** GCFID-HP5-B_210108B

| | |
|---|---|
| **Run Start Date:** | 1/8/2021 |
| **Analyst:** | Ann Nebel |
| **Ical:** | |
| **Column ID:** | |
| **Comments:** | NEW ICAL<br>SW8015C_DRO210108HA.CAL |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CALS | 12/31/2021 |
| DRO201210A | #2 Diesel in Acetone 150,000 ug/mL | | | | | SECOND S | 6/10/2021 |
| DRO210105B | EPH (4) SURR-1000 ug/mL ea. in Hexane | | | | | SURRS | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154799 | CCV_0108HP51 | HC-8015-DRO- | CAL1 | | 1/8/2021 2:21:25 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1350772 | | 0.15 | 0 | 0 | 0.0499 | 0.3 | 50 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154800 | CCV_0108HP51 | HC-8015-DRO- | CAL2 | | 1/8/2021 3:03:30 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.865478 | | 3.75 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154801 | CCV_0108HP51 | HC-8015-DRO- | CAL3 | | 1/8/2021 3:45:32 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.3786 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154802 | CCV_0108HP51 | HC-8015-DRO- | CAL4 | | 1/8/2021 4:27:38 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 39.10215 | | 37.5 | 0 | 0 | 0.0499 | 0.3 | 50 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154803 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 5:09:49 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 50.03634 | | 50 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154804 | CCV_0108HP50 | HC-8015-DRO- | CAL1 | | 1/8/2021 5:52:15 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00201784 | | 0.002 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154805 | CCV_0108HP50 | HC-8015-DRO- | CAL2 | | 1/8/2021 6:34:45 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04980491 | | 0.05 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154806 | CCV_0108HP50 | HC-8015-DRO- | CAL3 | | 1/8/2021 7:17:18 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2027571 | | 0.2 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154807 | CCV_0108HP50 | HC-8015-DRO- | CAL4 | | 1/8/2021 7:59:52 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.4989882 | | 0.5 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154808 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 8:42:33 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.9852039 | | 1 | 0 | 0 | 0.000327 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154809 | CCV_0108HP51 | HC-8015-DRO- | ICV | | 1/8/2021 9:25:08 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 14.94195 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Version: 6

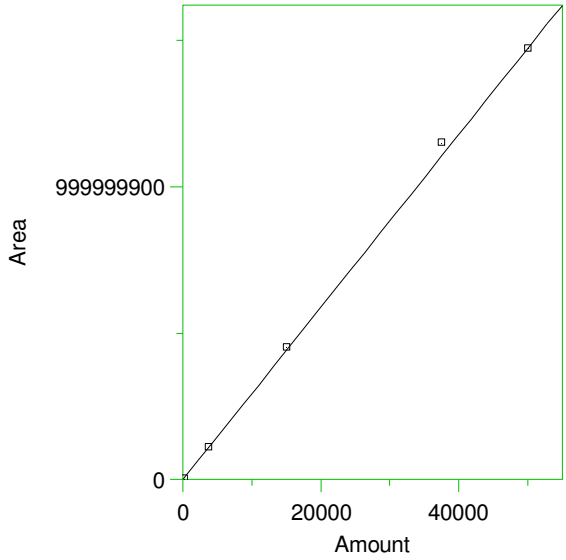
Creator: AMN 1/11/2021
Description: DRO-8015C. New ICal Per 0108HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.82 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

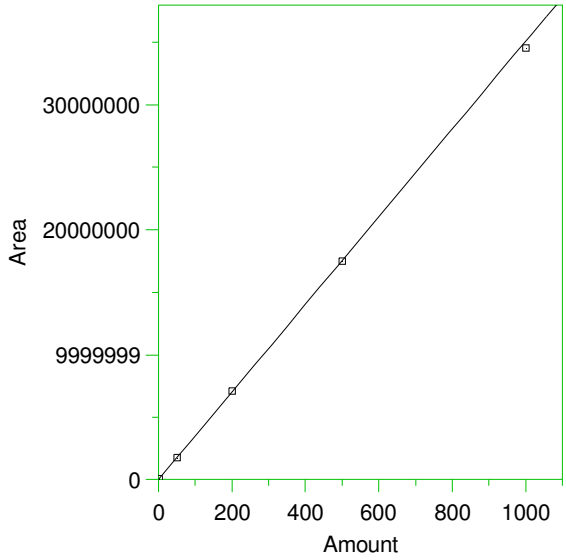
Y = 29457.33 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9985872 |
| Average error: | 3.979% |
| Average CF: | 29457.33 |
| RSD: | 5.768% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3979014 | 26526.76 | -9.949 | Manual | 1/11/2021 9:46:00 AM |
| 2 | 3750 | 1.138667E+08 | 30364.46 | 3.079 | Manual | 1/11/2021 9:46:09 AM |
| 3 | 15000 | 4.530125E+08 | 30200.83 | 2.524 | Manual | 1/11/2021 9:46:18 AM |
| 4 | 37500 | 1.151845E+09 | 30715.87 | 4.272 | Manual | 1/11/2021 9:46:27 AM |
| 5 | 50000 | 1.473937E+09 | 29478.74 | 0.073 | Manual | 1/11/2021 9:46:39 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.57 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

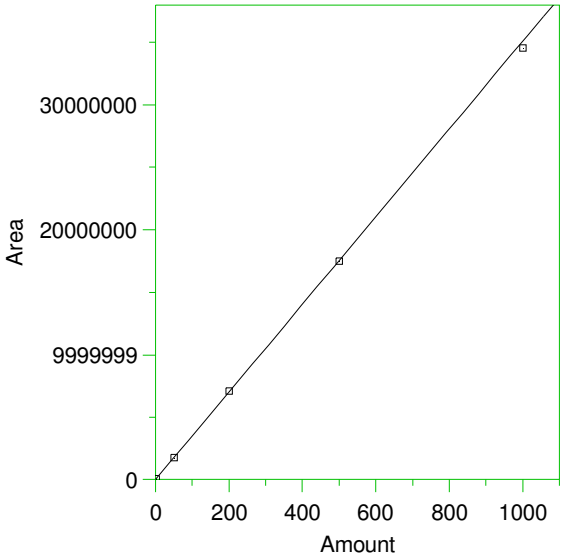
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.36 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

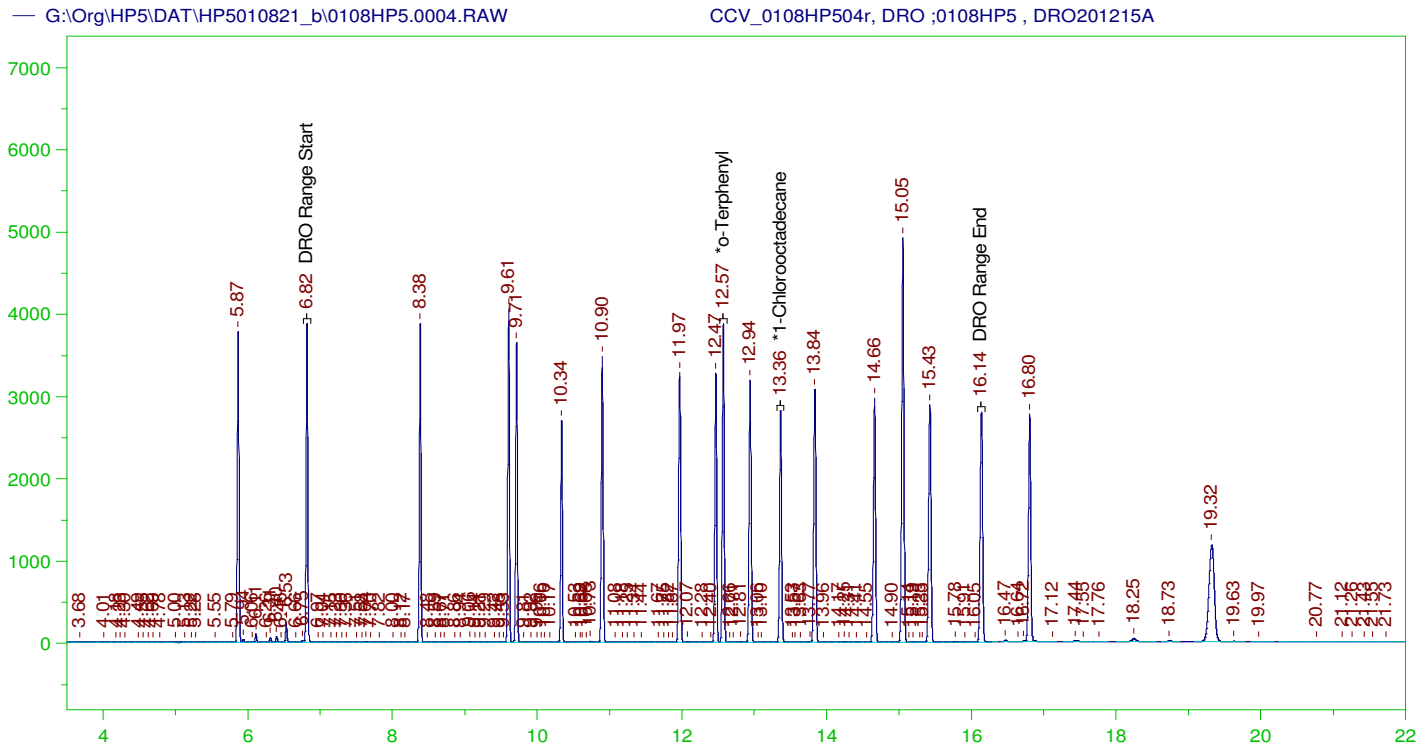
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP504r, DRO ;0108HP5 , DRO201215A
Raw File: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW
Date & Time Acquired: 1/8/2021 12:47:29 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | - |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | - |

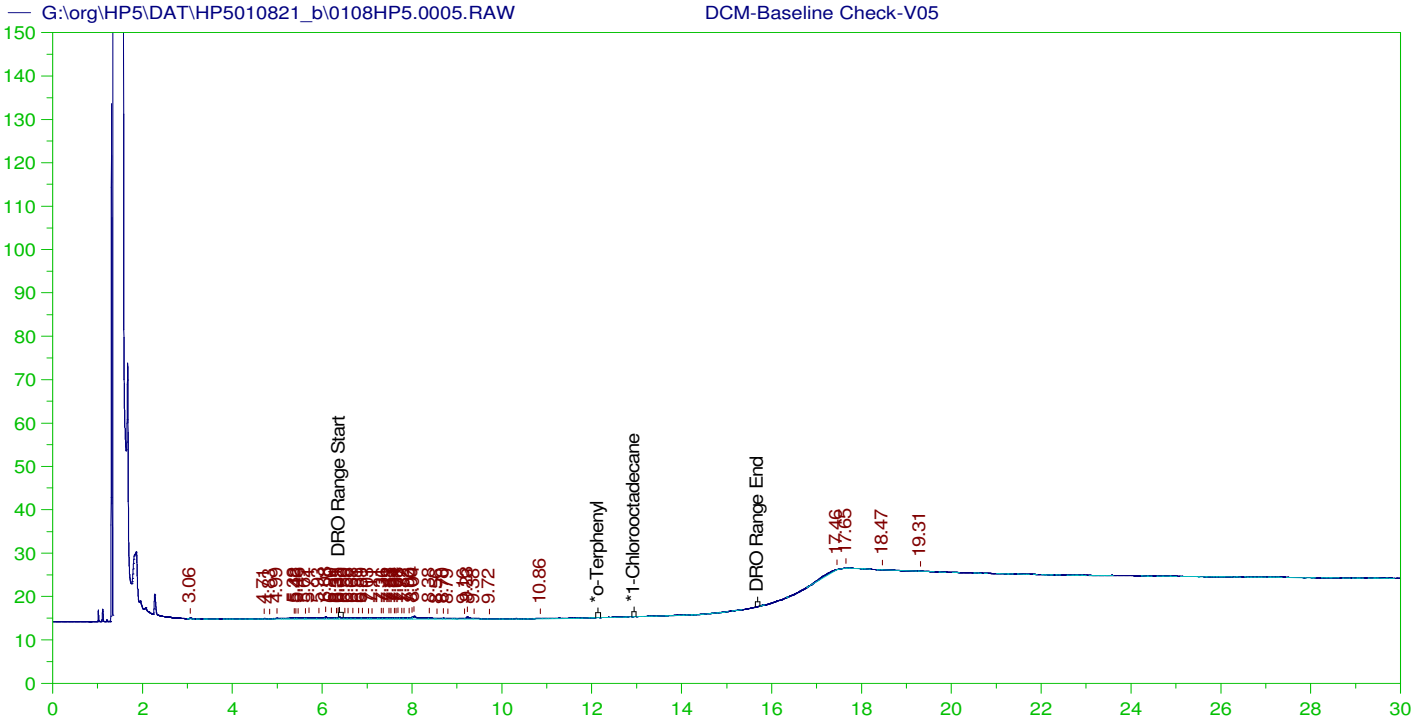
DRO Area:8.880706E+07 DRO Amount: 3014.77
TEH Area:1.082932E+08 TEH Amount: 3676.273

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3676.27 | 24.51 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | 85-115 |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\004_CCV_0108HP504r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

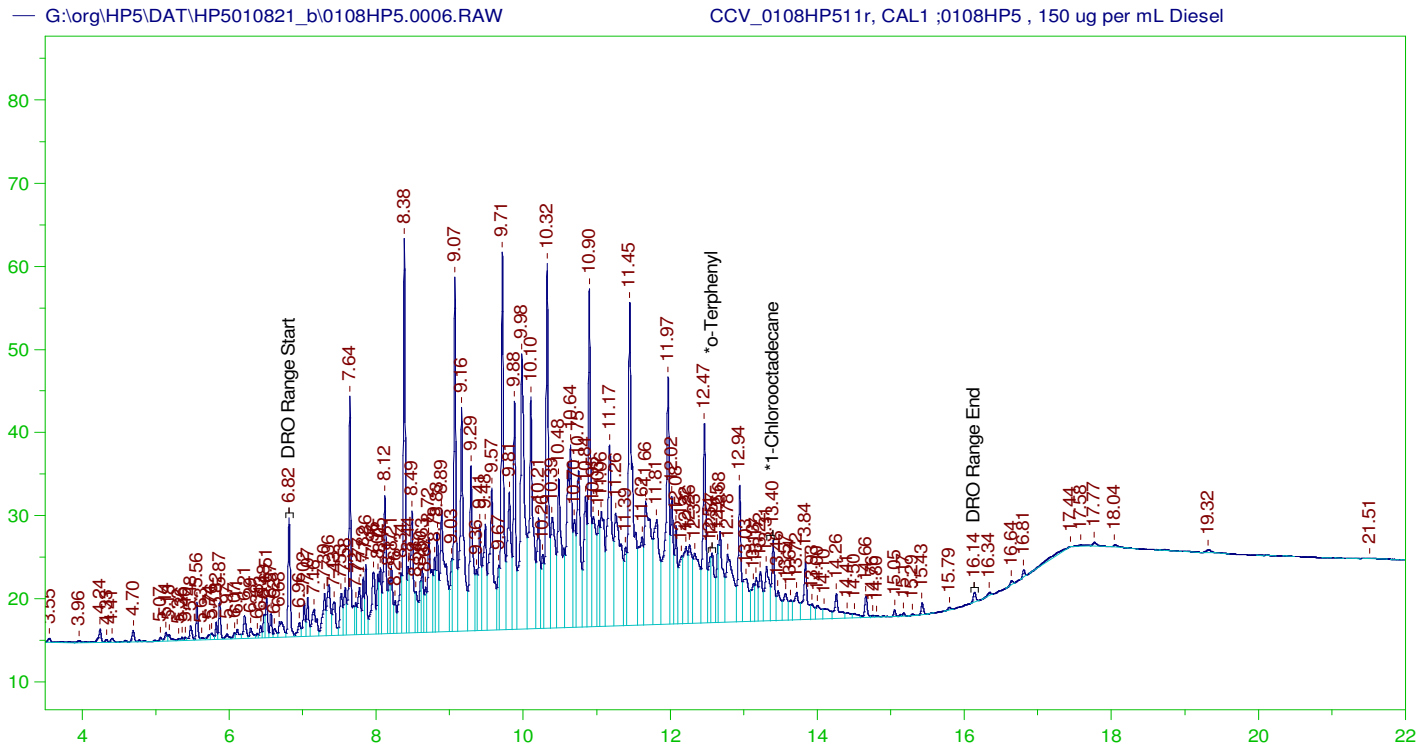
Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0005.RAW
Date & Time Acquired: 1/8/2021 1:29:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-GX-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO200123GX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28963.21
Rt range for Diesel Range Organics: 6.36 to 15.74

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.787 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.787 | 200. | . | . | - |

DRO Area:48911.73 DRO Amount: 1.688754
TEH Area:90991.55 TEH Amount: 3.141625

G:\org\HP5\dat\HP5010821_b\Review\005_DCM-Baseline Chec_DR_8015-GX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW
Date & Time Acquired: 1/8/2021 2:21:25 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | - |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | - |

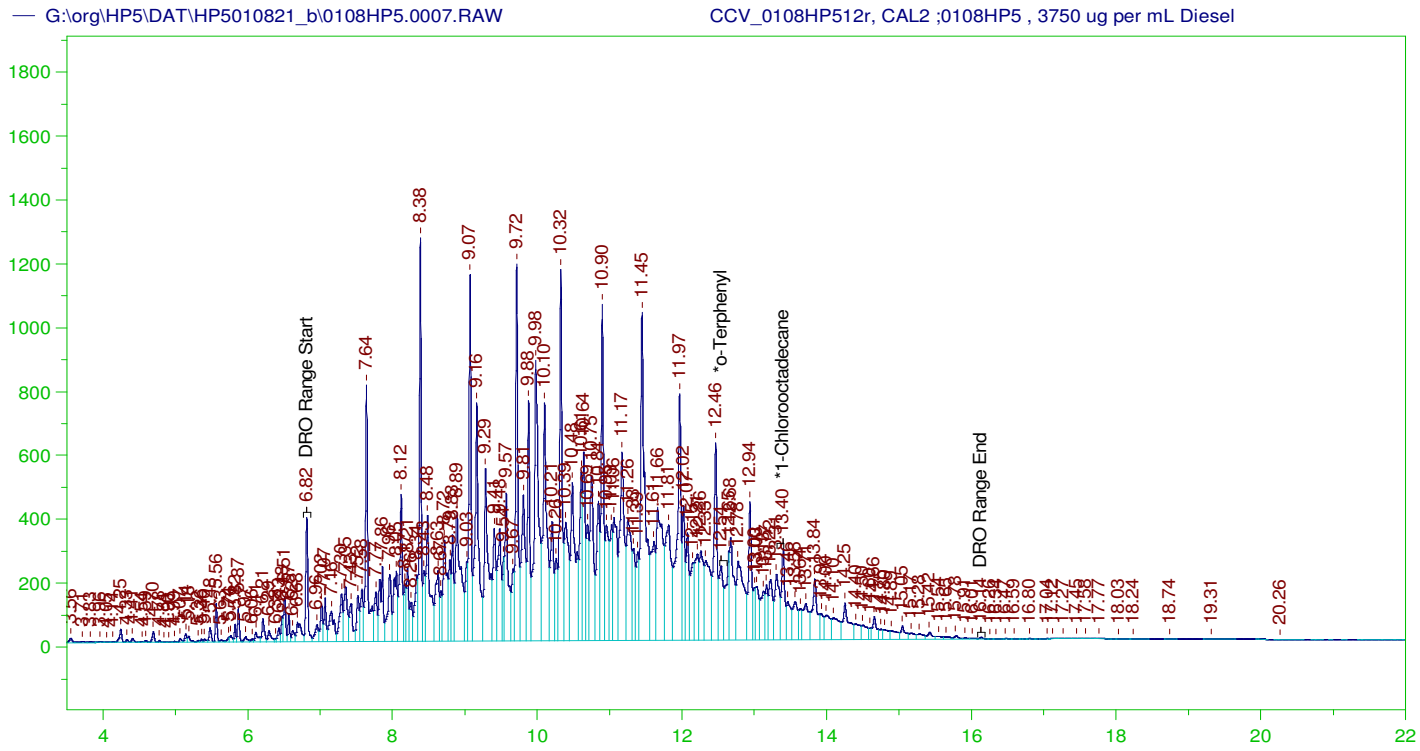
DRO Area:3854036 DRO Amount: 130.8345
TEH Area:3979014 TEH Amount: 135.0772

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 135.08 | .9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | 85-115 |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\006_CCV_0108HP511r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW
Date & Time Acquired: 1/8/2021 3:03:30 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | - |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | - |

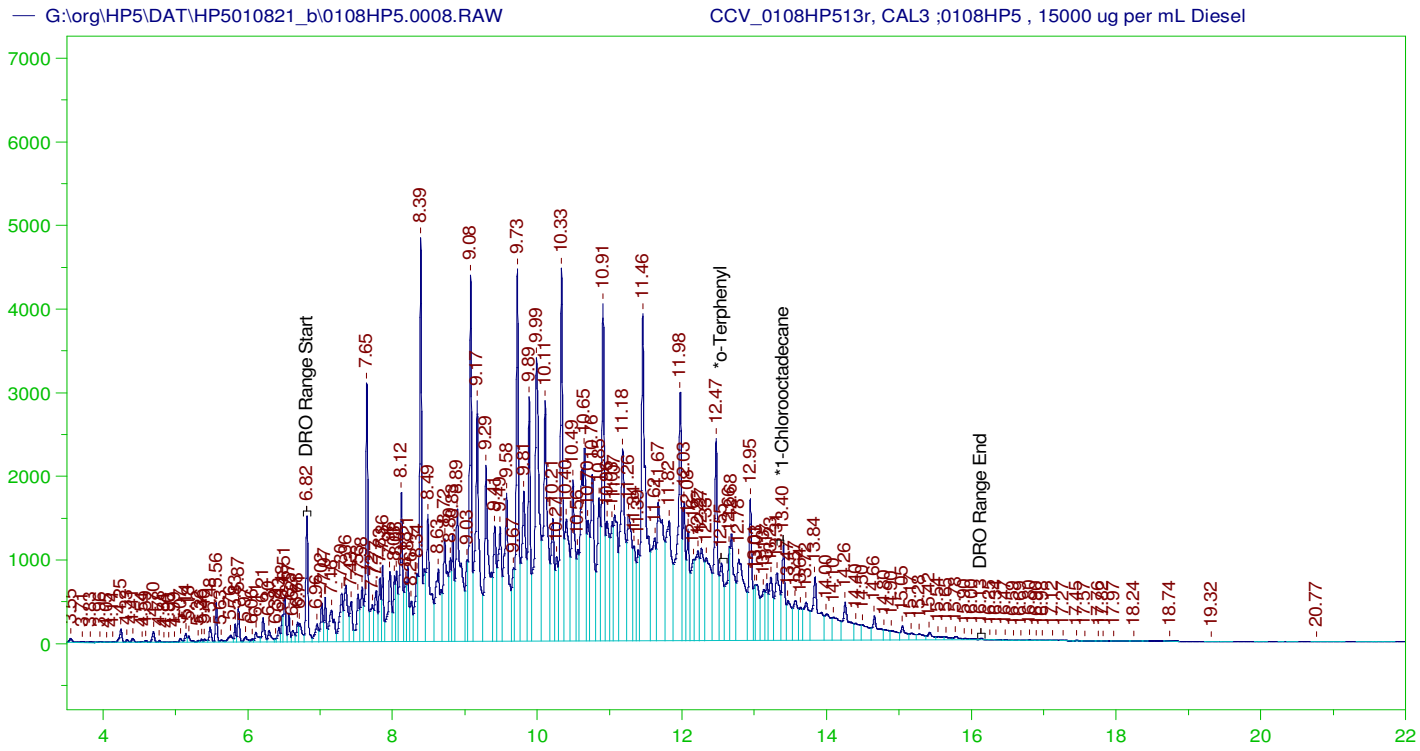
DRO Area:1.111179E+08 DRO Amount: 3772.164
TEH Area:1.138667E+08 TEH Amount: 3865.478

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3865.48 | 25.77 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | 85-115 |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\007_CCV_0108HP512r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW
Date & Time Acquired: 1/8/2021 3:45:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | - |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | - |

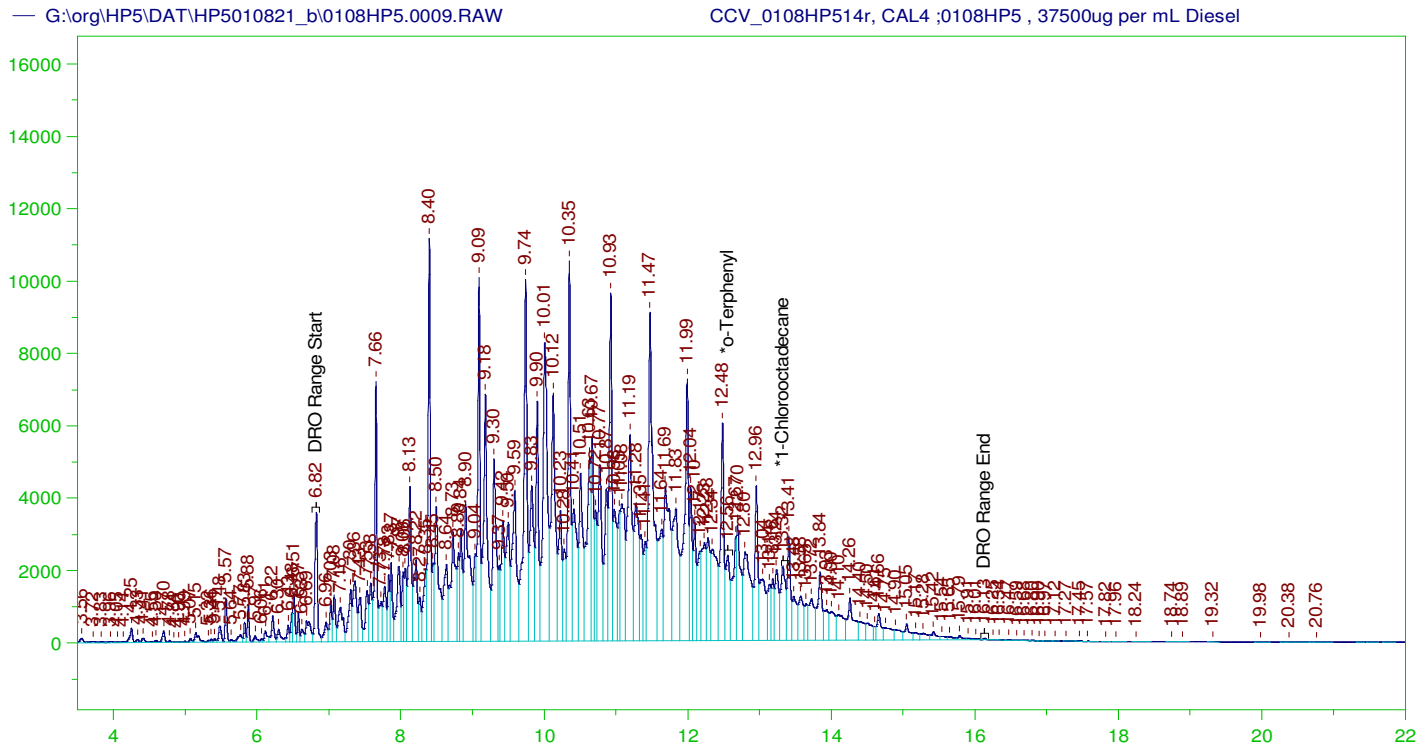
DRO Area:4.420163E+08 DRO Amount: 15005.31
TEH Area:4.530125E+08 TEH Amount: 15378.6

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15378.6 | 102.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | 85-115 |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\008_CCV_0108HP513r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW
Date & Time Acquired: 1/8/2021 4:27:38 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | - |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | - |

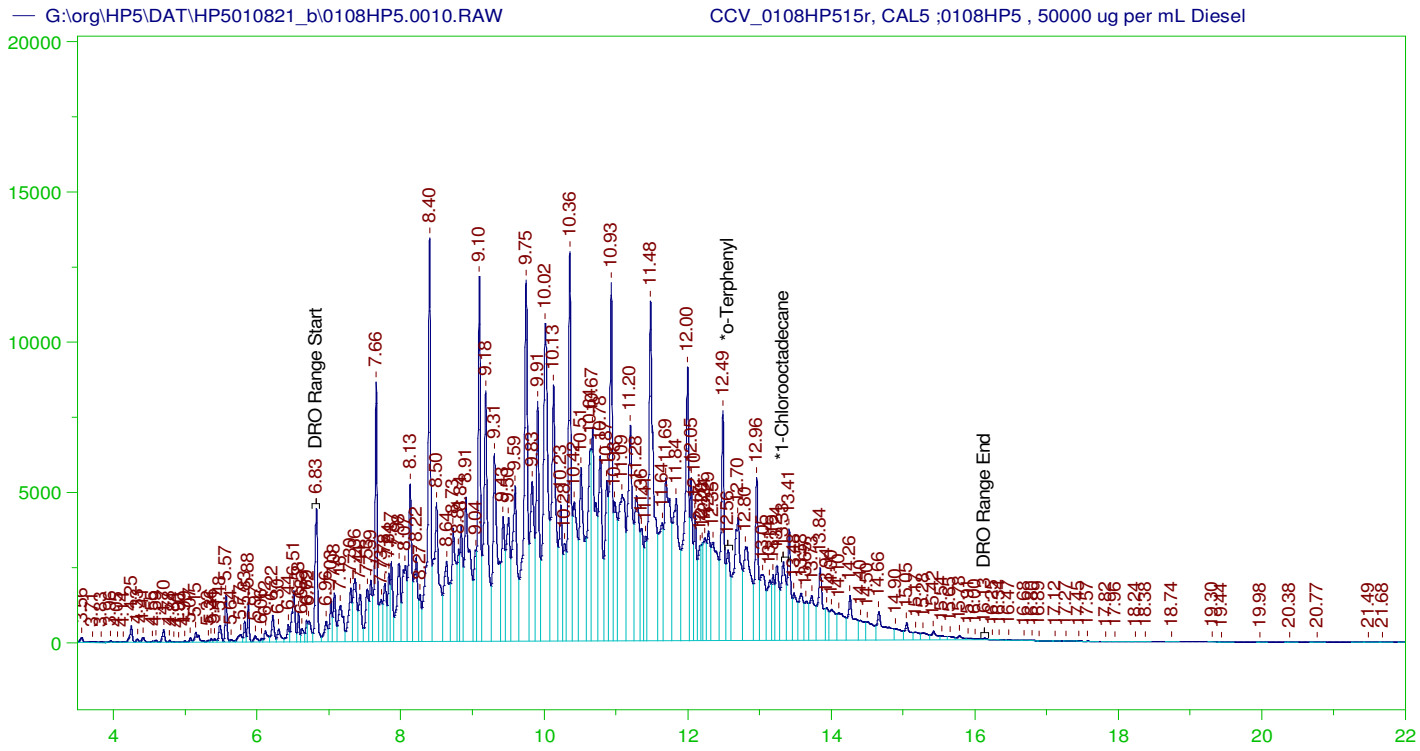
DRO Area:1.1239E+09 DRO Amount: 38153.5
TEH Area:1.151845E+09 TEH Amount: 39102.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39102.15 | 260.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | 85-115 |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\009_CCV_0108HP514r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW
Date & Time Acquired: 1/8/2021 5:09:49 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | - |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | - |

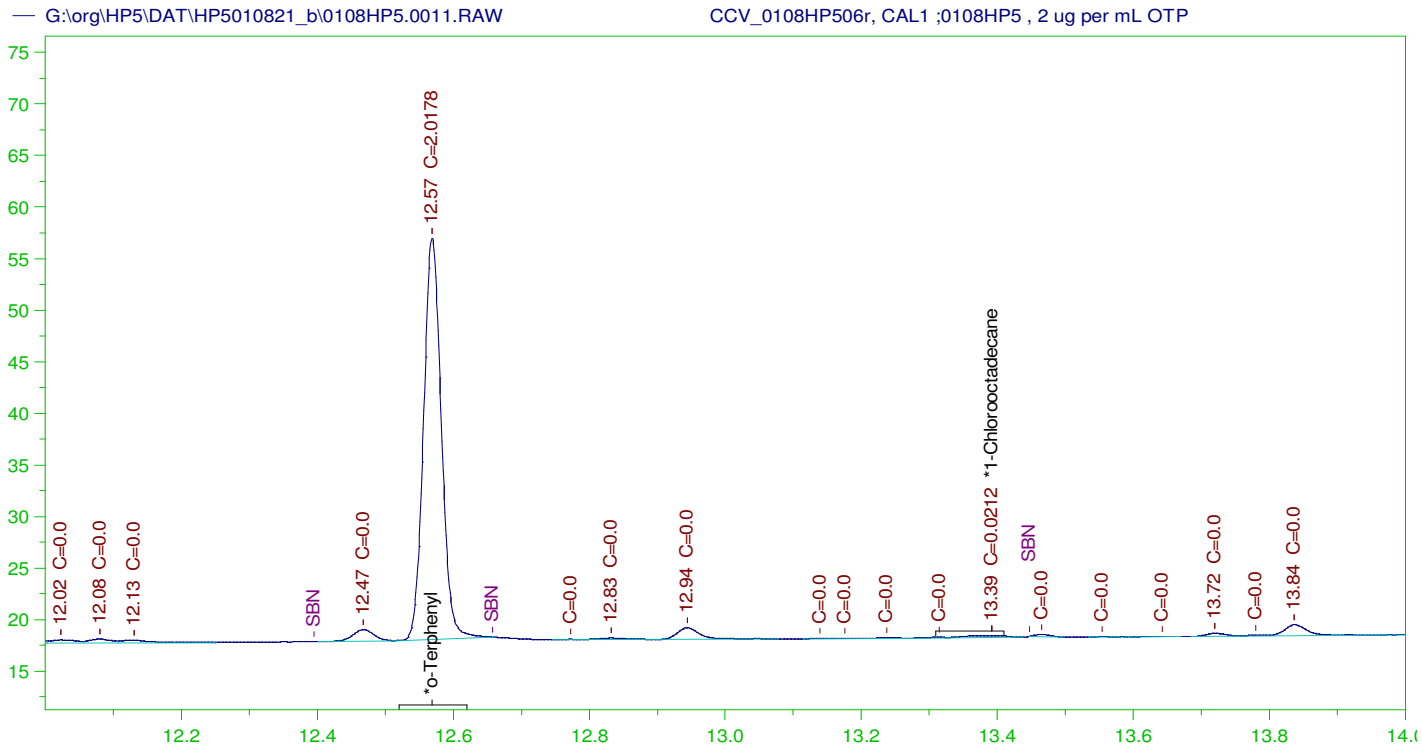
DRO Area:1.438162E+09 DRO Amount: 48821.87
TEH Area:1.473937E+09 TEH Amount: 50036.34

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 50036.34 | 333.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | 85-115 |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\010_CCV_0108HP515r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW
Date & Time Acquired: 1/8/2021 5:52:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | - |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | - |

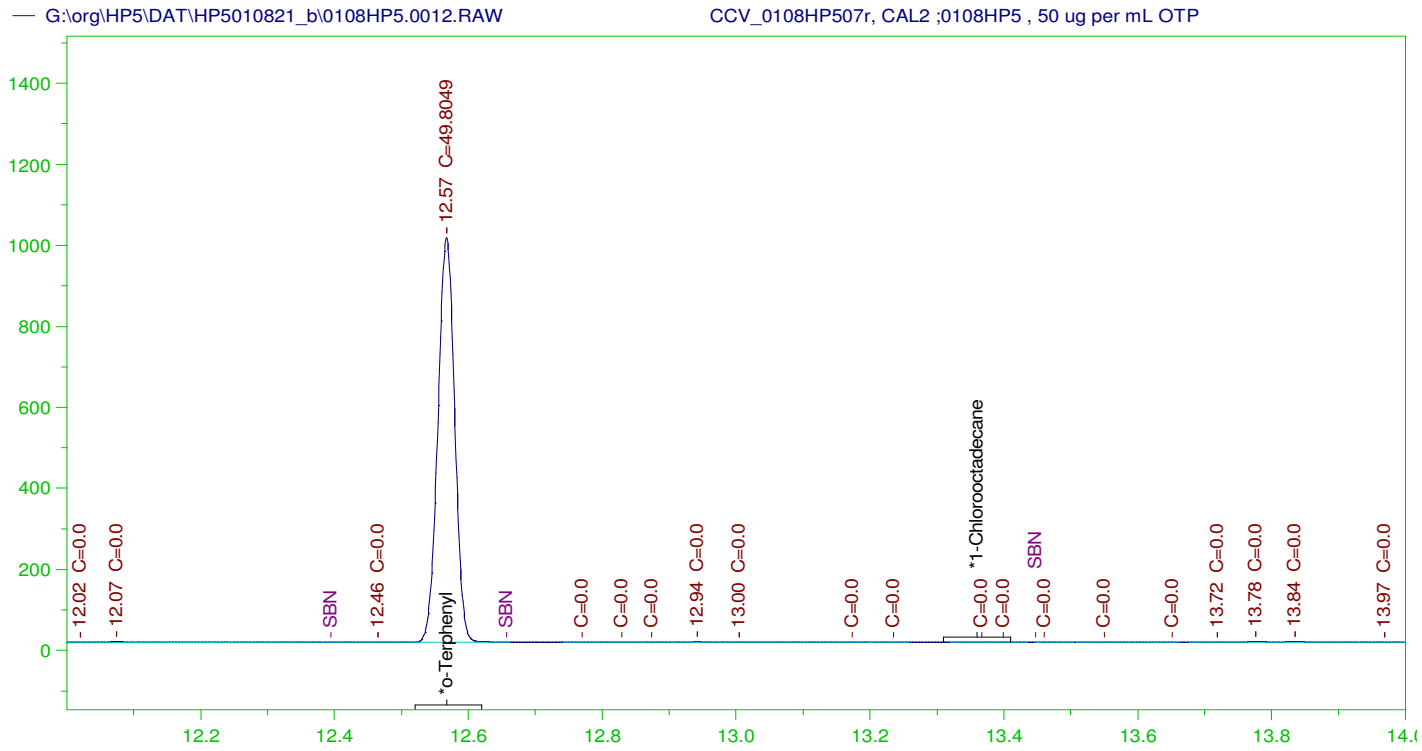
DRO Area:153898.5 DRO Amount: 5.224453
TEH Area:367701.2 TEH Amount: 12.4825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | 85-115 |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\011_CCV_0108HP506r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW
Date & Time Acquired: 1/8/2021 6:34:45 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | - |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | - |

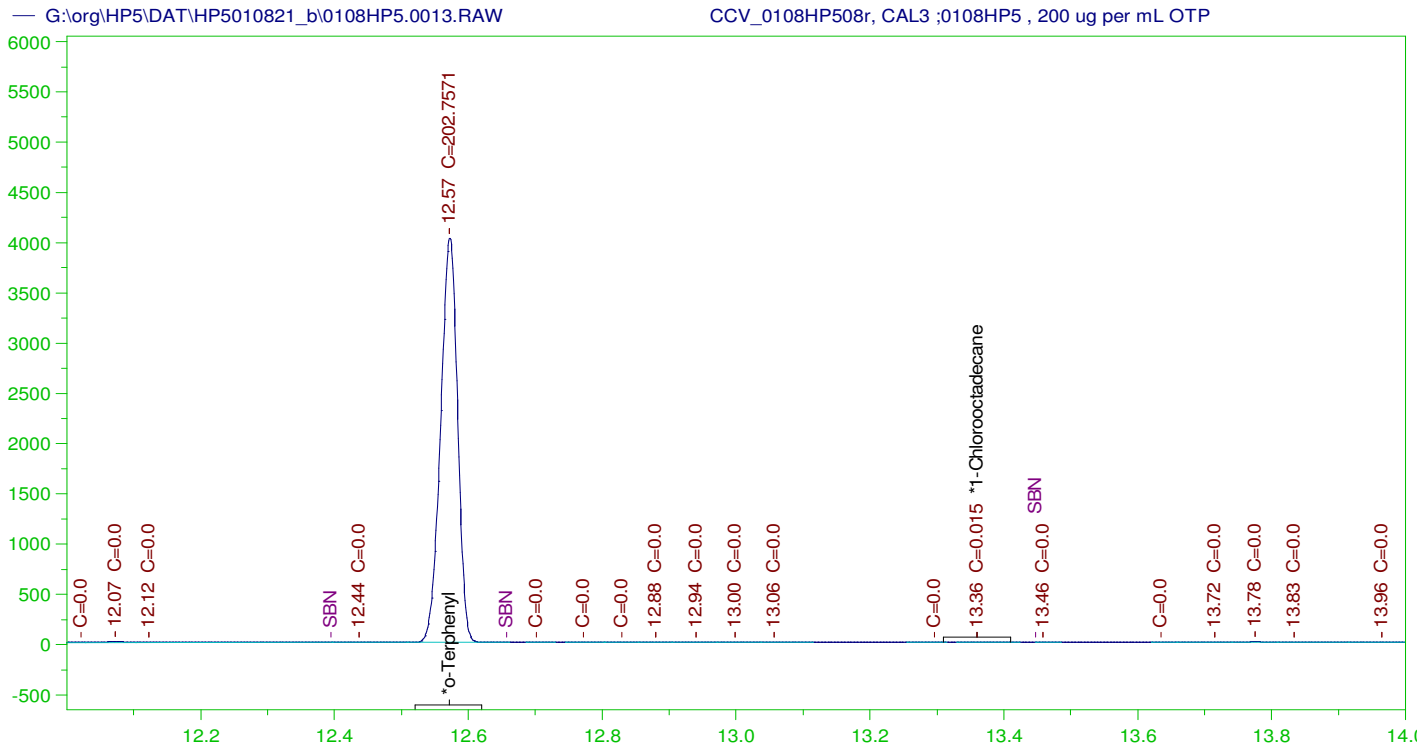
DRO Area:198540.3 DRO Amount: 6.739929
TEH Area:443484.3 TEH Amount: 15.05514

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | 85-115 |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\012_CCV_0108HP507r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW
Date & Time Acquired: 1/8/2021 7:17:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | - |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | - |

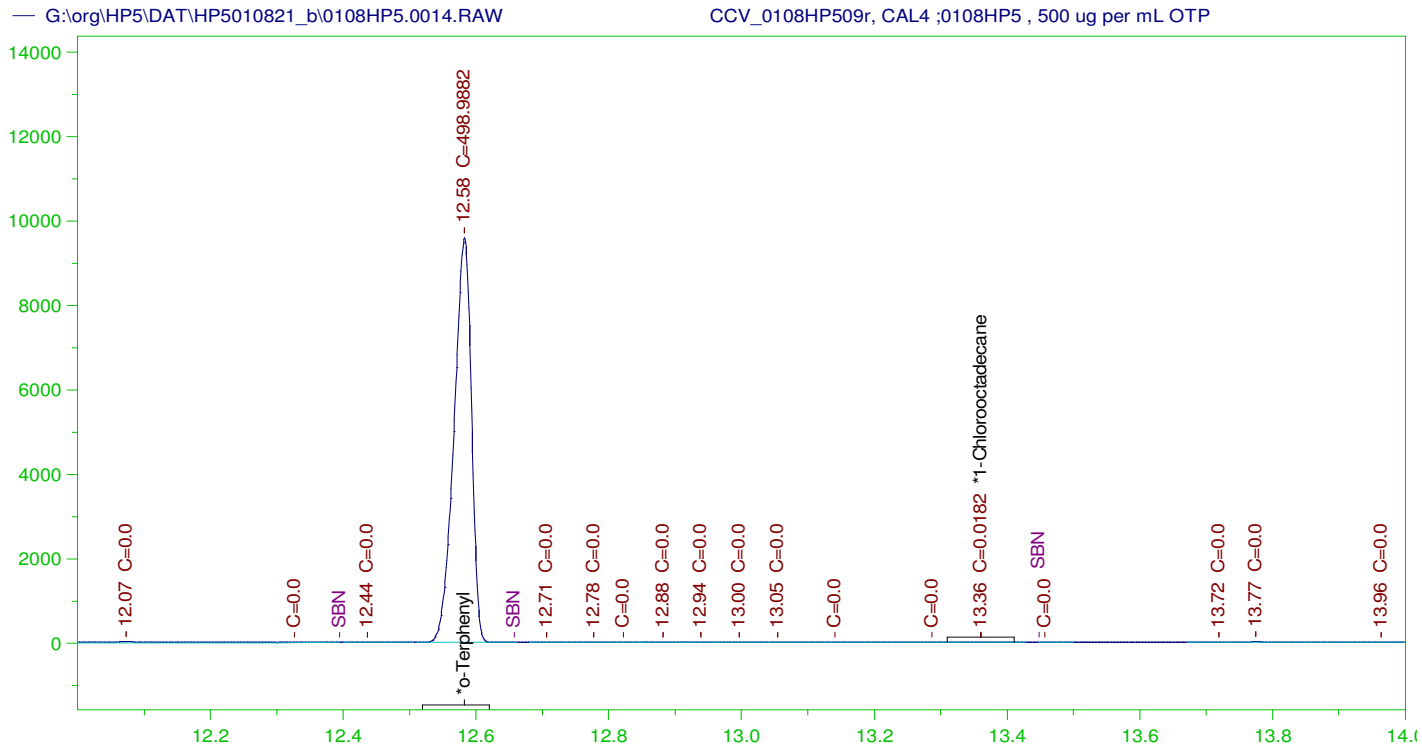
DRO Area:425468.4 DRO Amount: 14.44355
TEH Area:809202.7 TEH Amount: 27.47033

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 27.47 | .18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | 85-115 |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\013_CCV_0108HP508r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW
Date & Time Acquired: 1/8/2021 7:59:52 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | - |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | - |

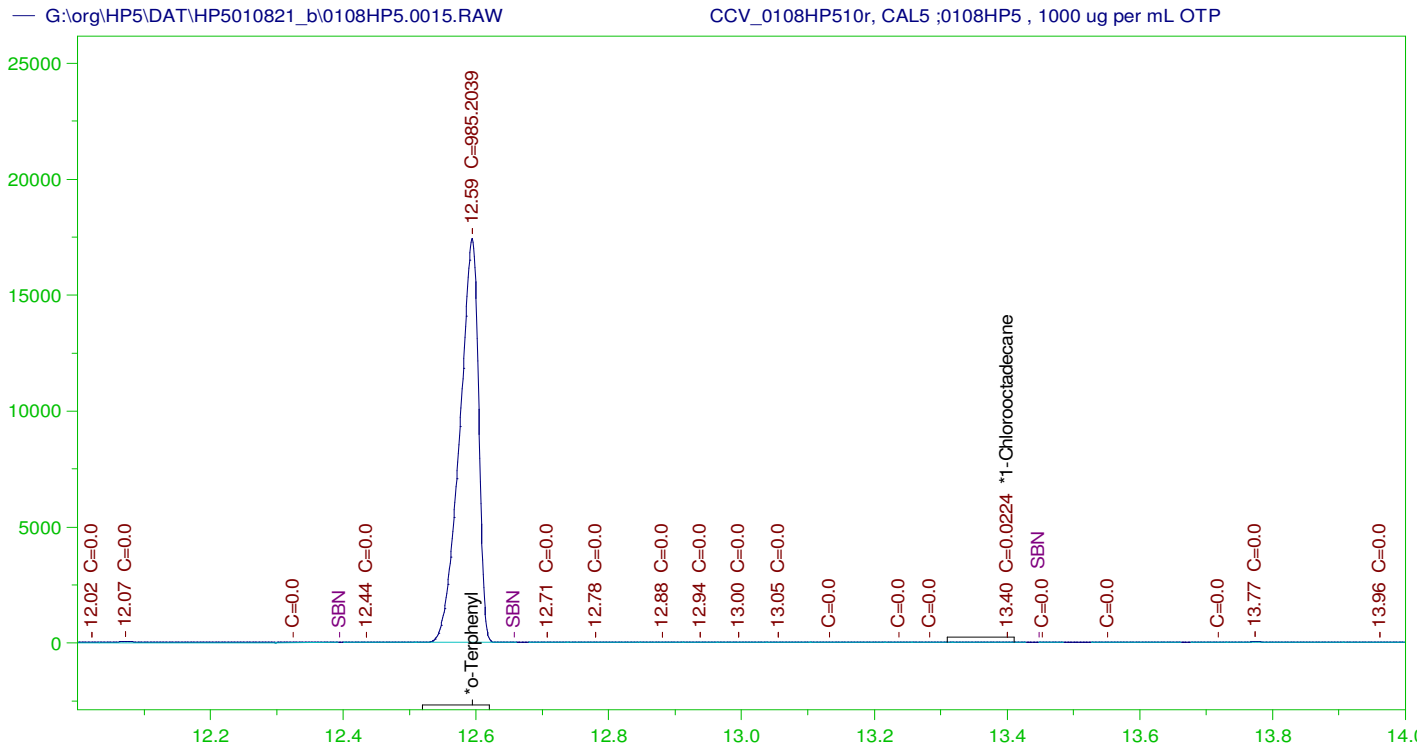
DRO Area:651862.6 DRO Amount: 22.12904
TEH Area:1164840 TEH Amount: 39.5433

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39.54 | .26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | 85-115 |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\014_CCV_0108HP509r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW
Date & Time Acquired: 1/8/2021 8:42:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | - |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | - |

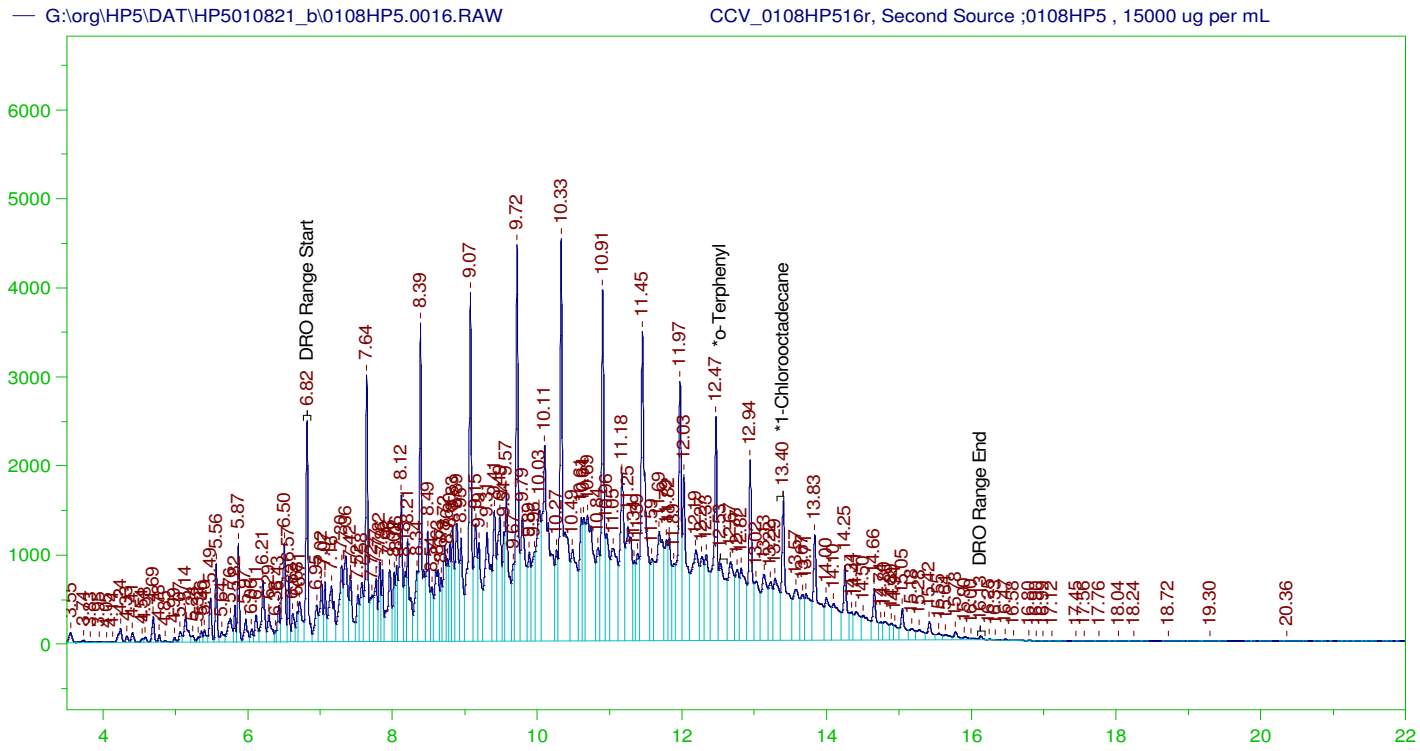
DRO Area:856596.9 DRO Amount: 29.07924
TEH Area:1371563 TEH Amount: 46.561

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 46.56 | .31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | 85-115 |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\015_CCV_0108HP510r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW
Date & Time Acquired: 1/8/2021 9:25:08 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | - |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | - |

DRO Area:4.138122E+08 DRO Amount: 14047.85
TEH Area:4.4015E+08 TEH Amount: 14941.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 14941.95 | 99.61 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | 85-115 |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\016_CCV_0108HP516r_DC_8015-HA-L%.xls

Write Sequence

Insert Entries(Have the first cell for entries selected)

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | Integration is valley to valley. Assigned Set Baseline All Valley on at 17.5. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.01.27 15:17:17 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Sep-21*

**Run ID** GCFID-HP5-B_210218B

**Run Start Date:** 2/18/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015 OIL range calibration
SW8015_OIL210218

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL | 8/31/2025 |
| DRO210204A | Carbon Scan STD | | | | | MARKER | 3/5/2028 |
| DRO210217A | 20,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | ICV | 8/23/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282665 | CCV_0218HP50 | HC-8015-DRO- | CAL1 | | 2/18/2021 12:03: | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1468323 | | 0.15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282666 | CCV_0218HP50 | HC-8015-DRO- | CAL2 | | 2/18/2021 1:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.062811 | | 1 | 0 | 0 | 0.15 | 0.3 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282667 | CCV_0218HP50 | HC-8015-DRO- | CAL3 | | 2/18/2021 2:51:0 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.035713 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282668 | CCV_0218HP50 | HC-8015-DRO- | CAL4 | | 2/18/2021 4:14:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.69295 | | 15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282669 | CCV_0218HP51 | HC-8015-DRO- | CAL5 | | 2/18/2021 5:38:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 28.20769 | | 30 | 0 | 0 | 0.15 | 0.3 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282670 | CCV_0218HP51 | HC-8015-DRO- | ICV | | 2/18/2021 8:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.474465 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 109% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Nam | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Version: 4

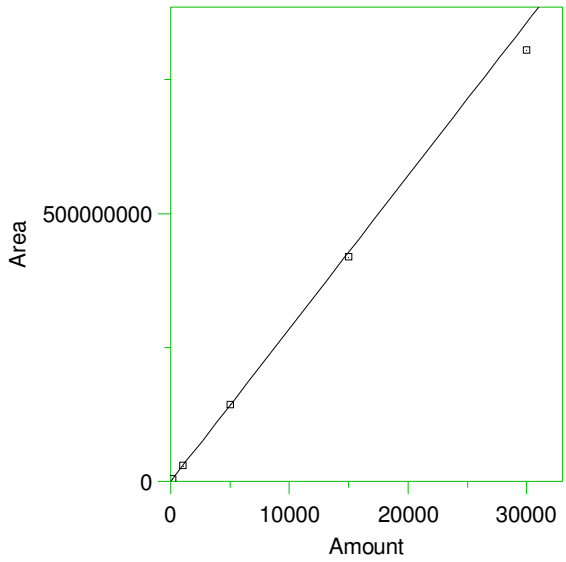
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




Expected retention time: 6.54 minutes
Search window: 0.05 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

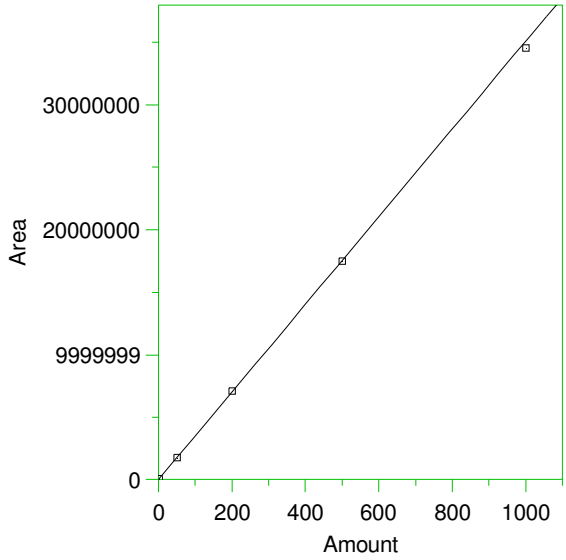
Single peak quantification by area

Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9940317
Average error: 3.209%
Average CF: 28542.41
RSD: 4.497%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 3/30/2021 11:50:57 AM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 3/30/2021 11:51:41 AM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 3/30/2021 11:52:00 AM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 3/30/2021 11:52:55 AM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 3/30/2021 11:52:32 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.14 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

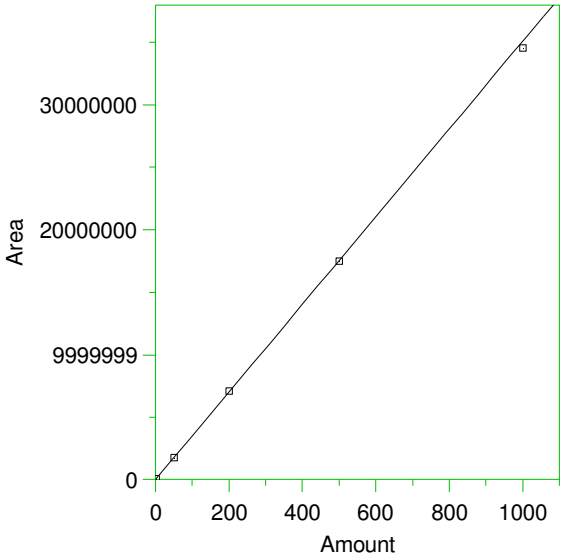
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.95 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

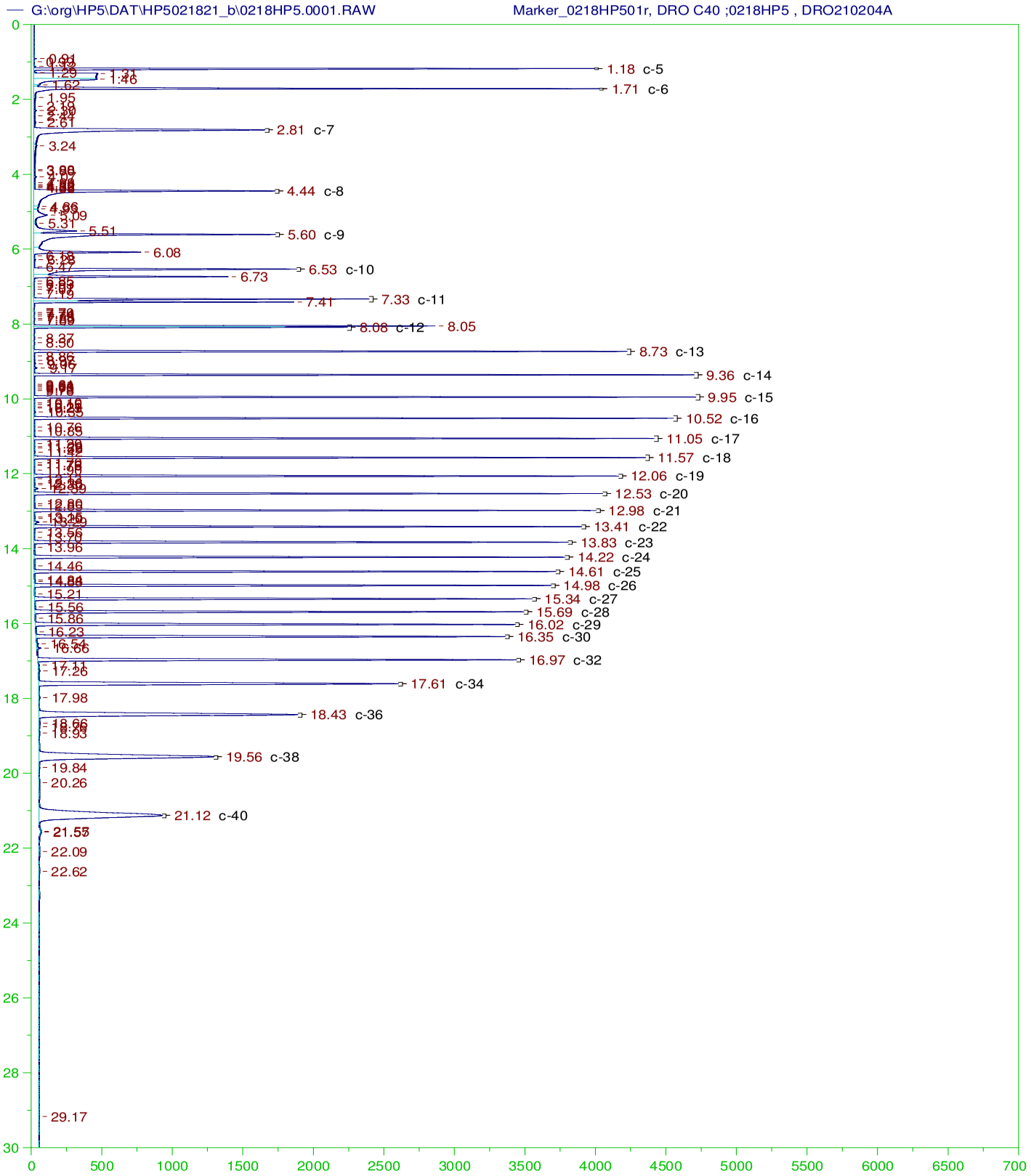
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |

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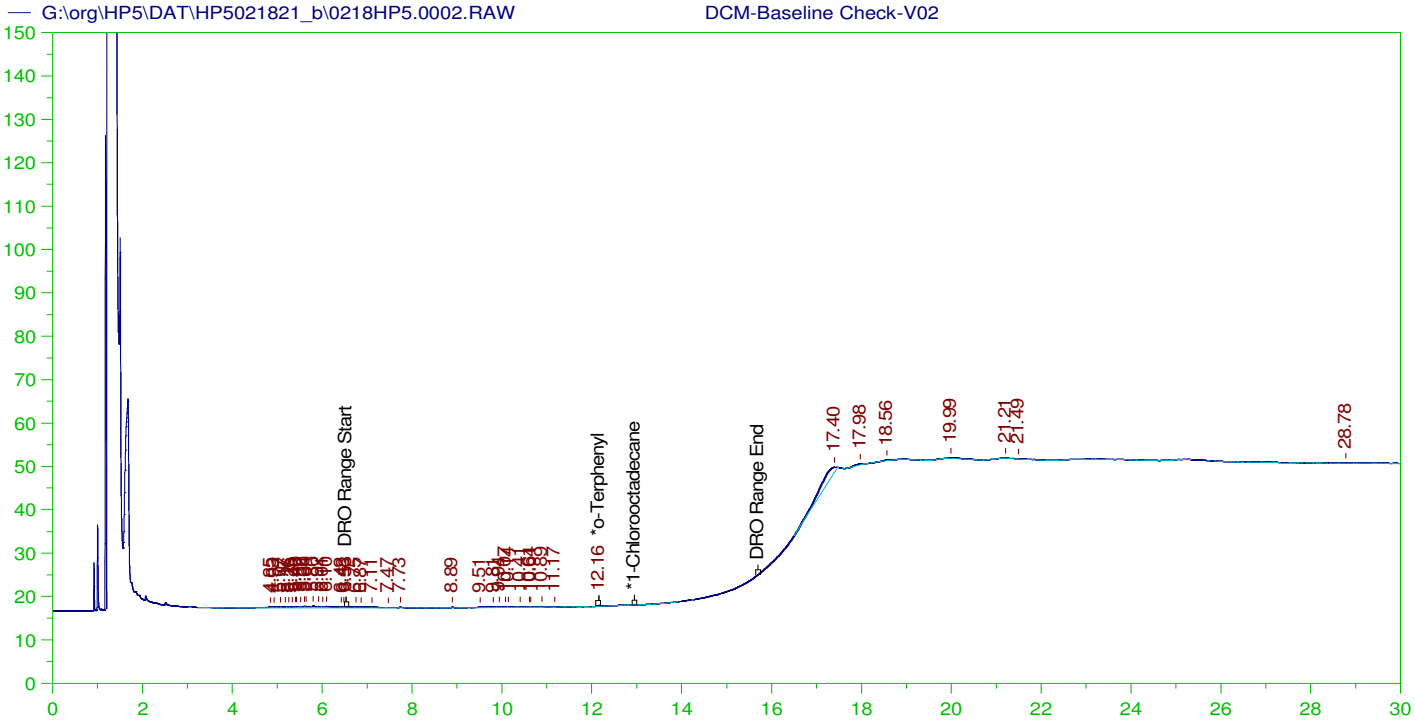



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

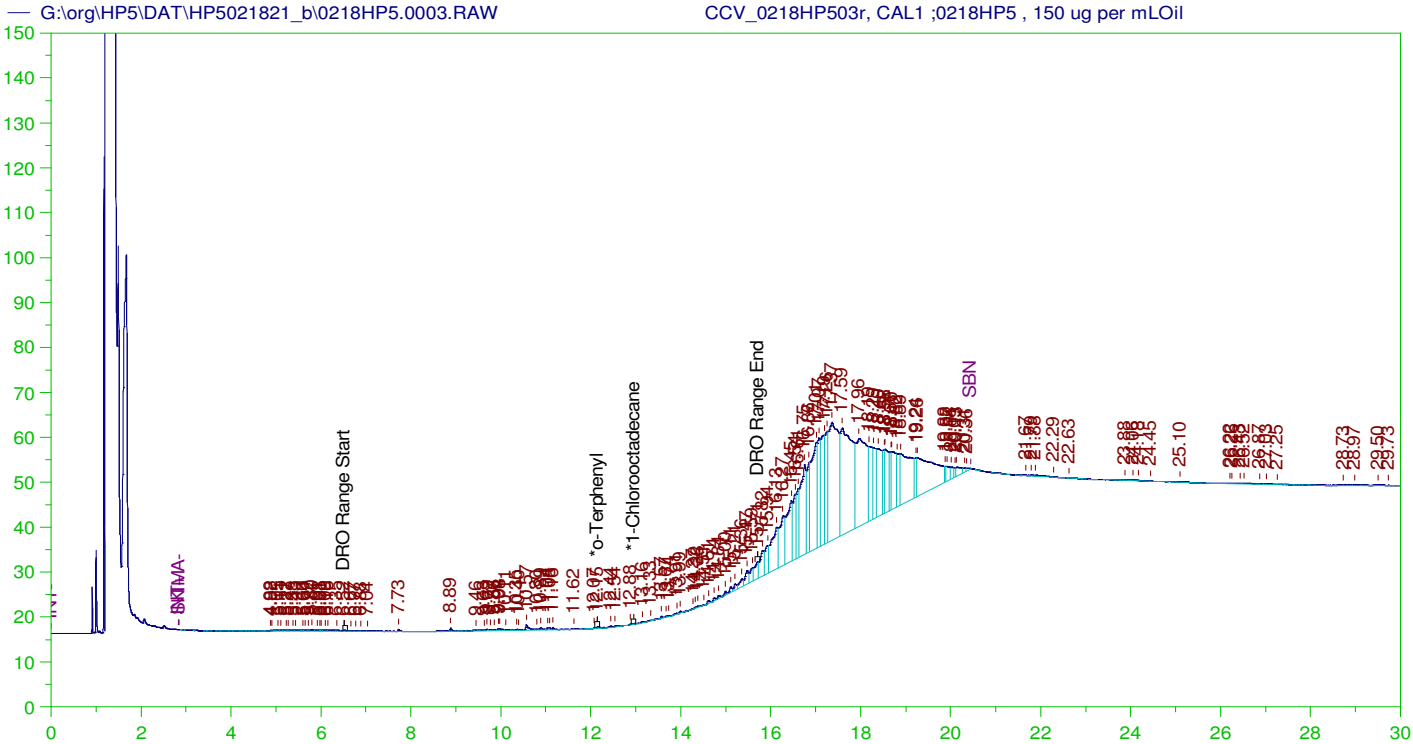
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
Date & Time Acquired: 2/18/2021 11:21:40 AM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.158 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 29.927 | 200. | . | . | - |

DRO Area:29553.31 DRO Amount: 1.003258
TEH Area:144057.3 TEH Amount: 4.890373

G:\org\HP5\dat\HP5021821_b\Review\002_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW
Date & Time Acquired: 2/18/2021 12:03:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021803-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | - |

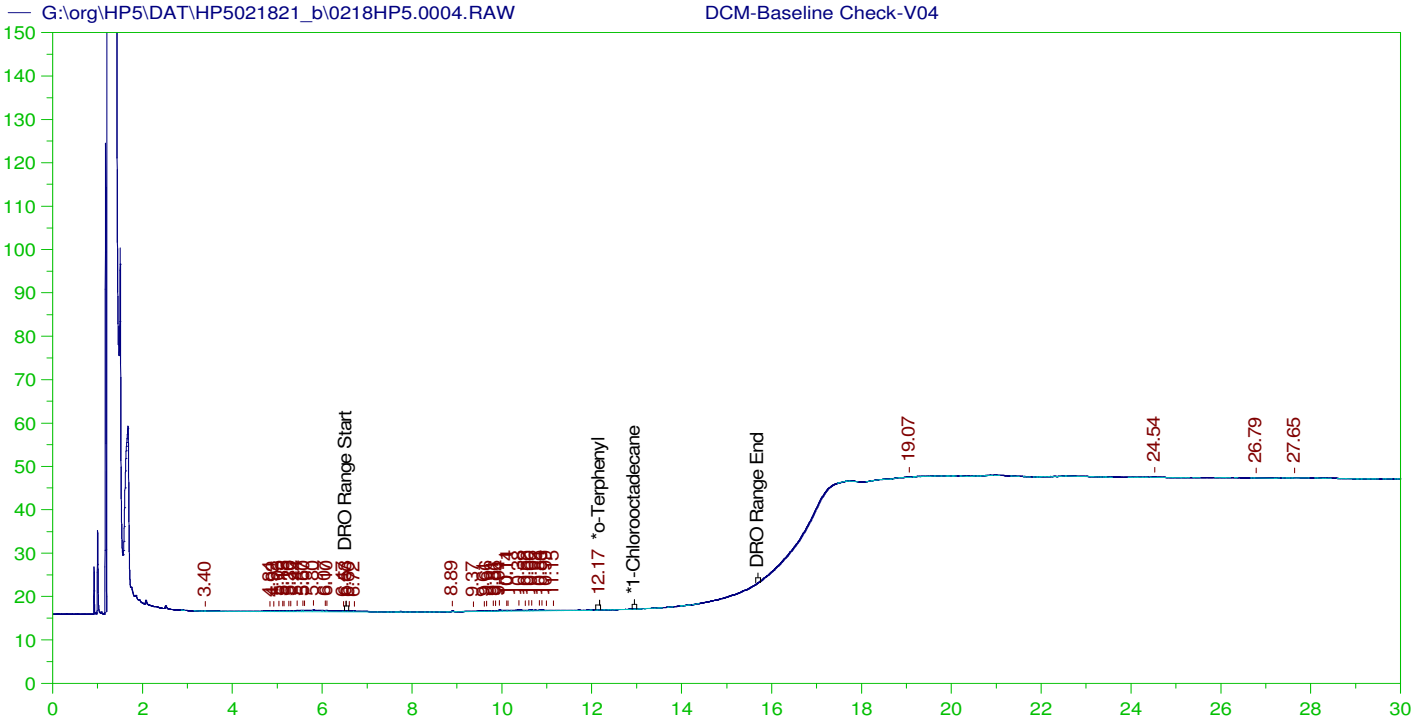
DRO Area:141843.8 DRO Amount: 4.969579
TEH Area:3766485 TEH Amount: 131.961

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 131.96 | 2.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | 85-115 |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\003_CCV_0218HP503r_DR_OIL-021803-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

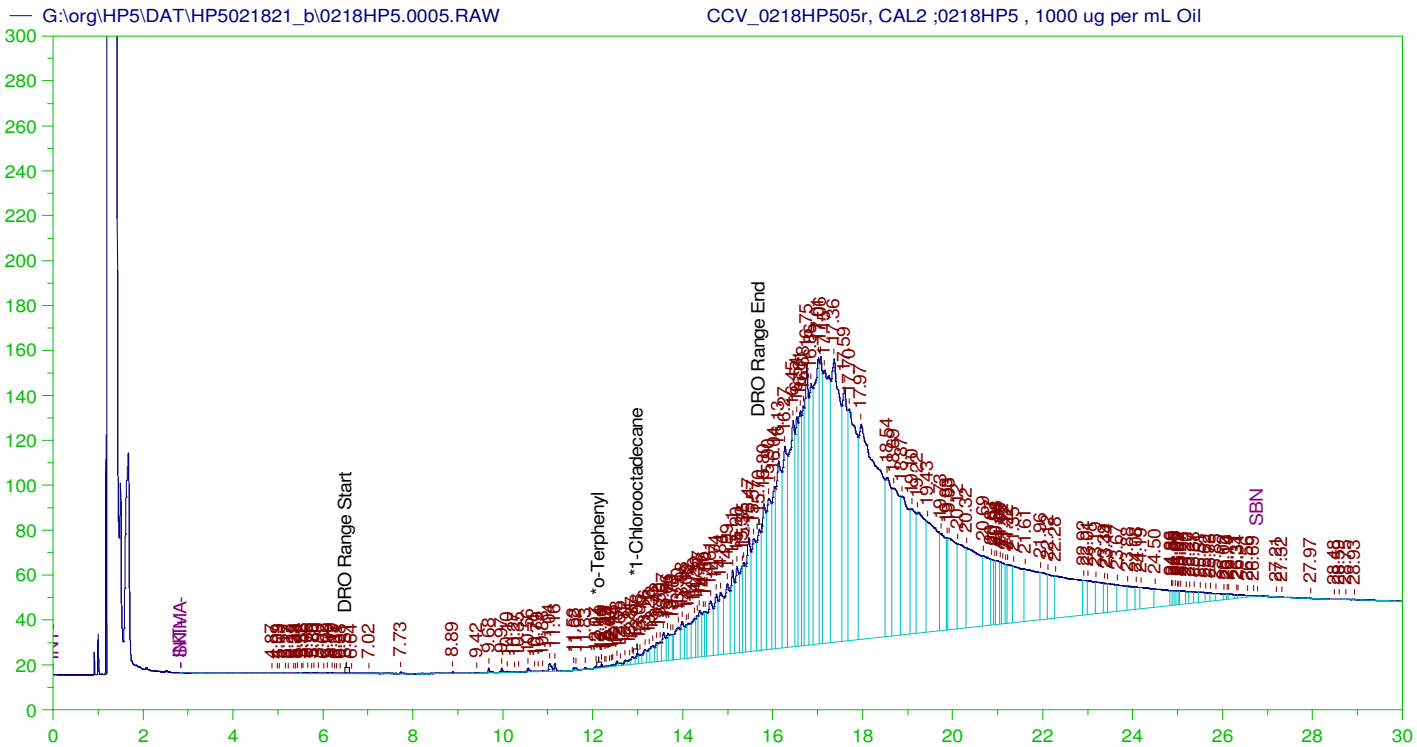
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
Date & Time Acquired: 2/18/2021 12:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.171 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.958 | 200. | . | . | - |

DRO Area:27245.38 DRO Amount: 0.9249101
TEH Area:63574.01 TEH Amount: 2.158173

G:\org\HP5\dat\HP5021821_b\Review\004_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW
Date & Time Acquired: 2/18/2021 1:27:30 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021805-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | - |

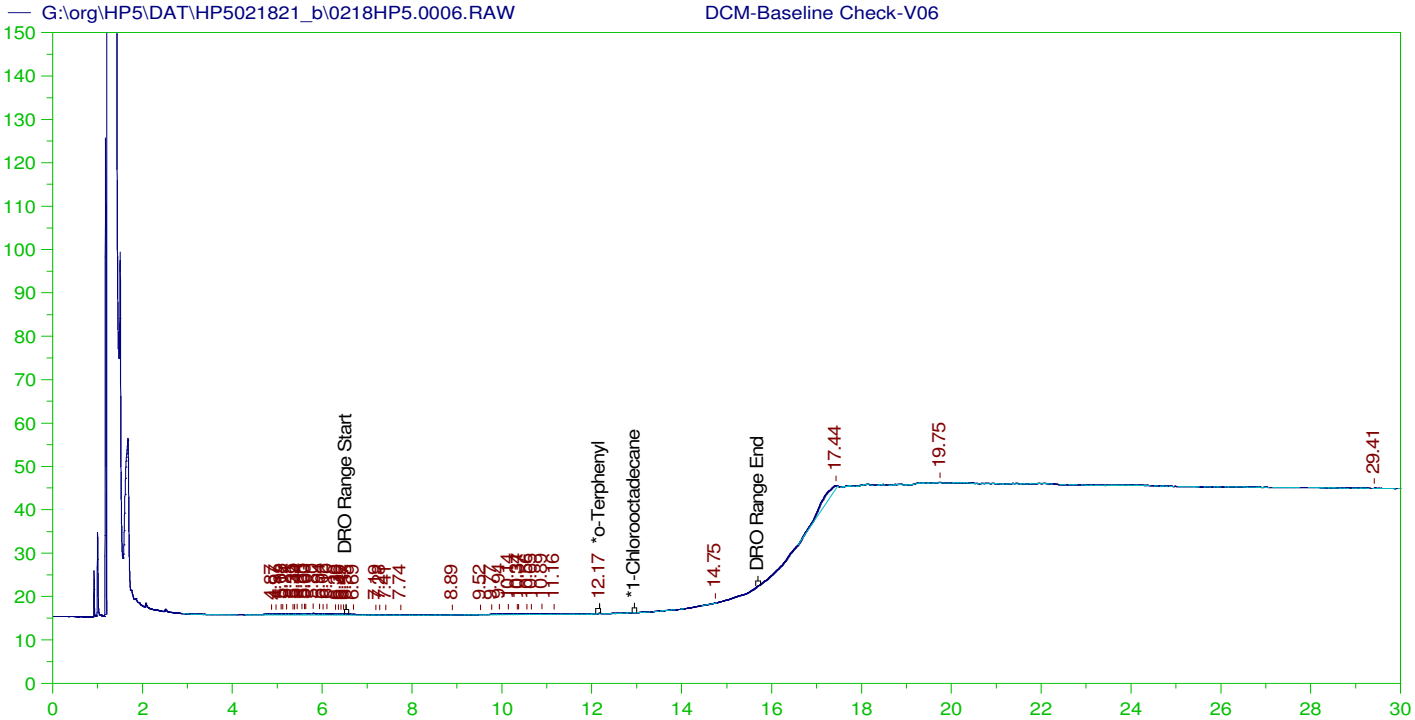
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1062.81 | 21.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | 85-115 |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\005_CCV_0218HP505r_DR_OIL-021805-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

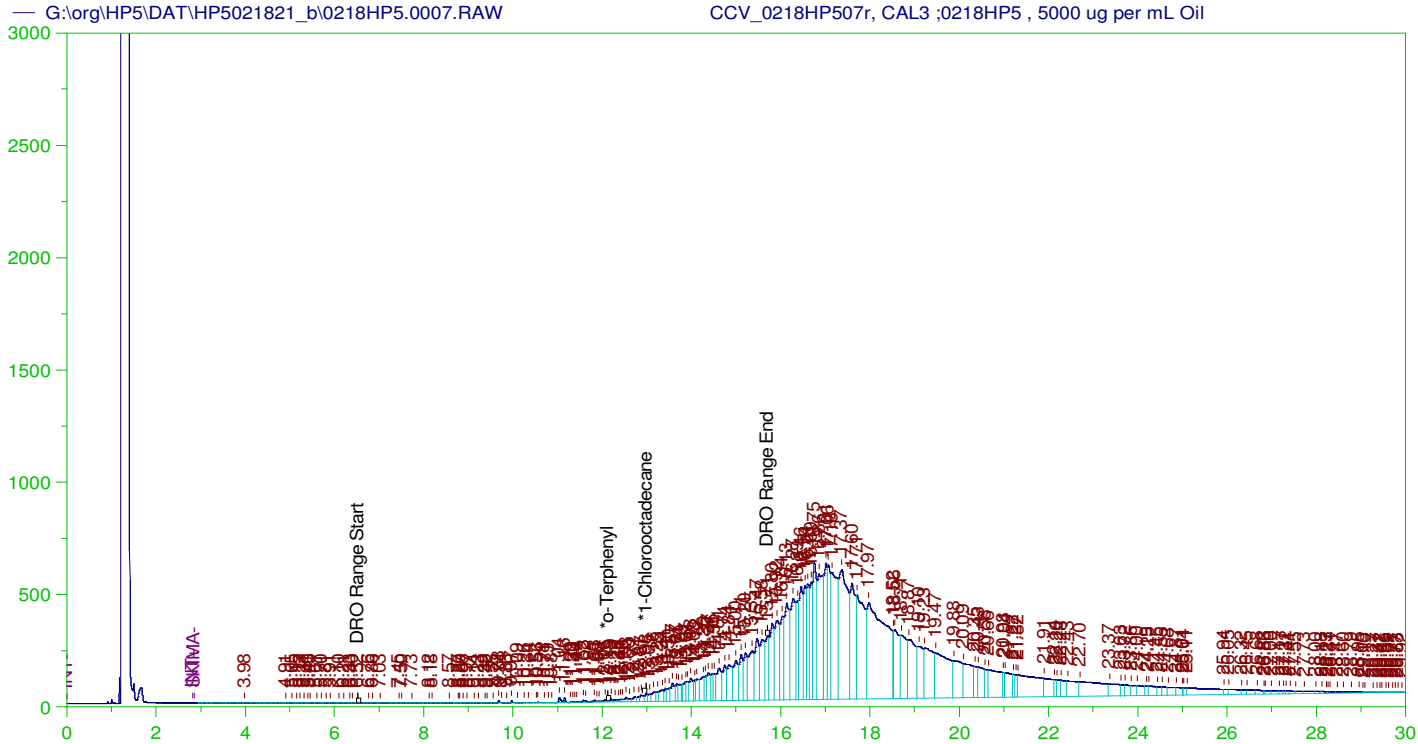
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0006.RAW
Date & Time Acquired: 2/18/2021 2:09:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:29249.25 DRO Amount: 0.9929362
TEH Area:123949.1 TEH Amount: 4.20775

G:\org\HP5\dat\HP5021821_b\Review\006_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW
Date & Time Acquired: 2/18/2021 2:51:00 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | - |

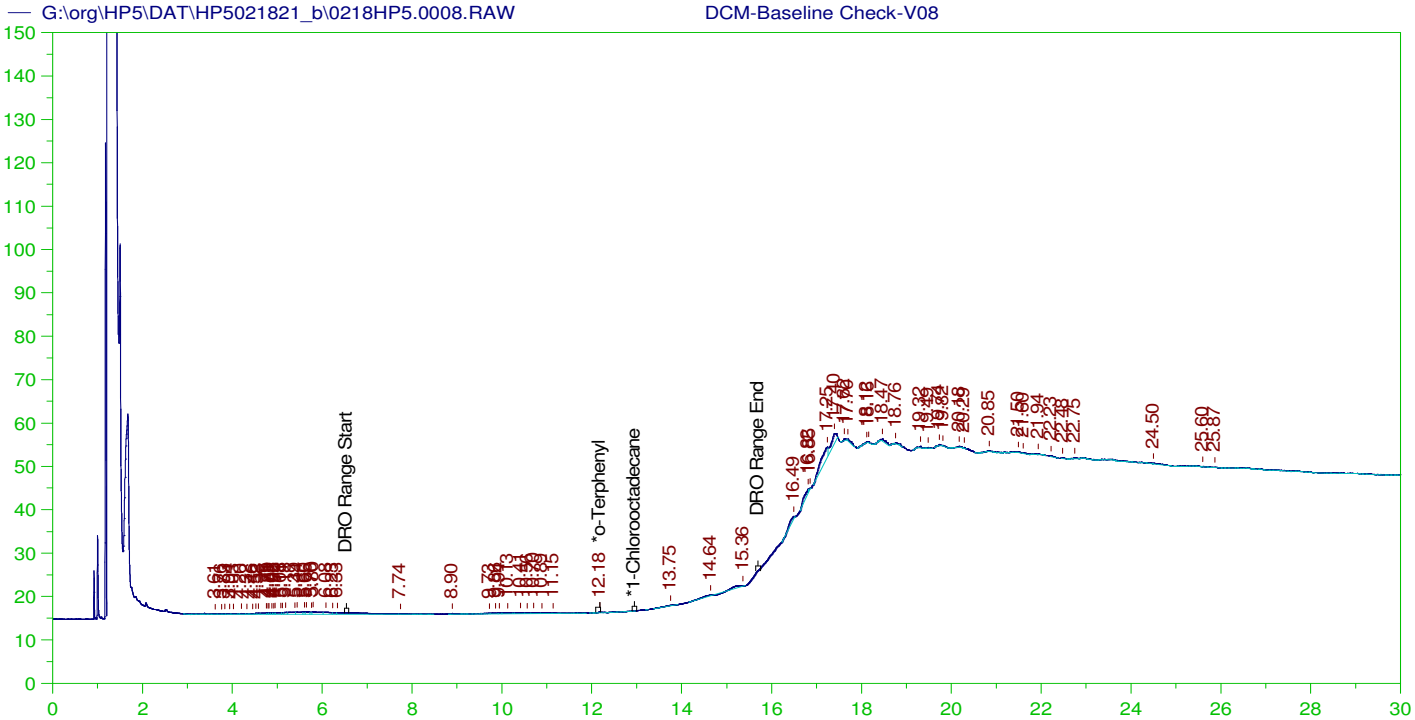
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5035.71 | 100.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\007_CCV_0218HP507r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

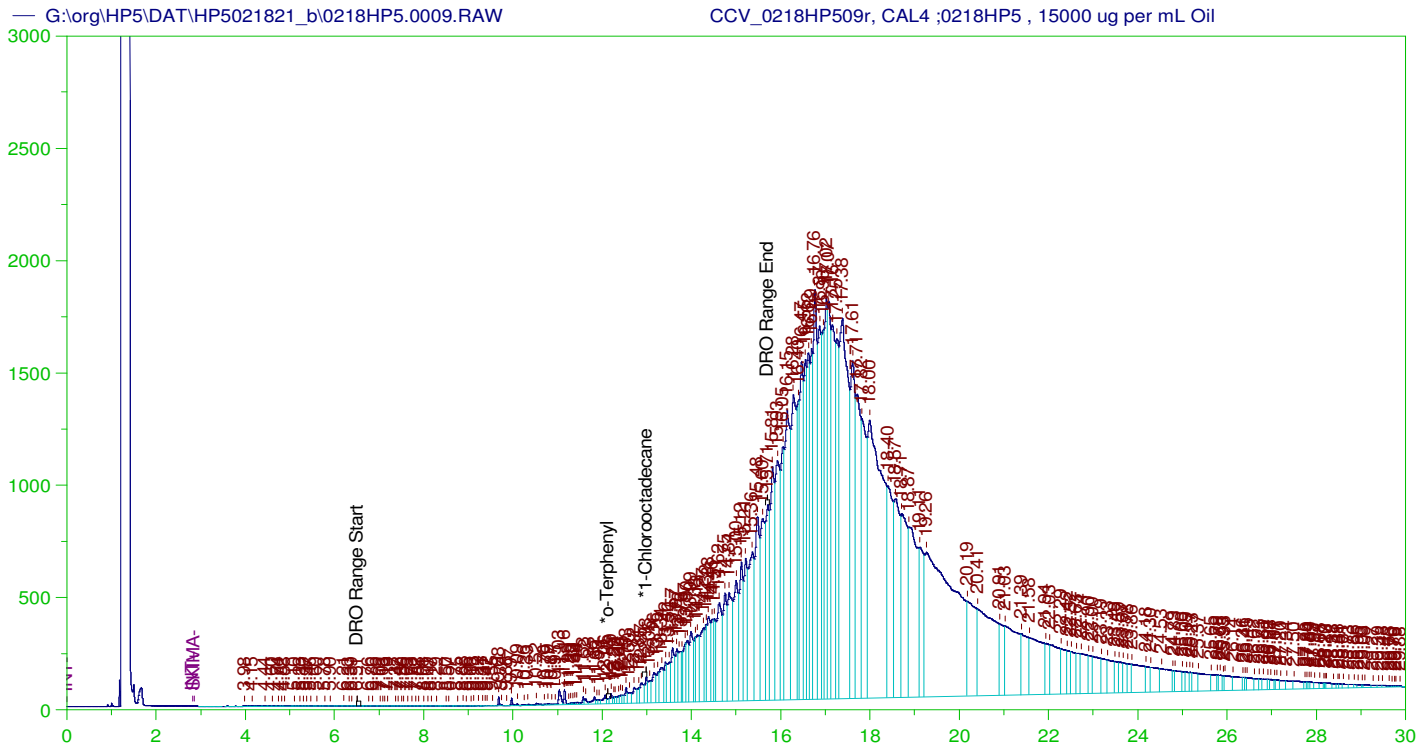
Sample Name: DCM-Baseline Check-V08
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0008.RAW
Date & Time Acquired: 2/18/2021 3:32:46 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .026 | .01 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:30717.07 DRO Amount: 1.042765
TEH Area:223672.8 TEH Amount: 7.593112

G:\org\HP5\dat\HP5021821_b\Review\008_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW
Date & Time Acquired: 2/18/2021 4:14:34 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | - |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | - |

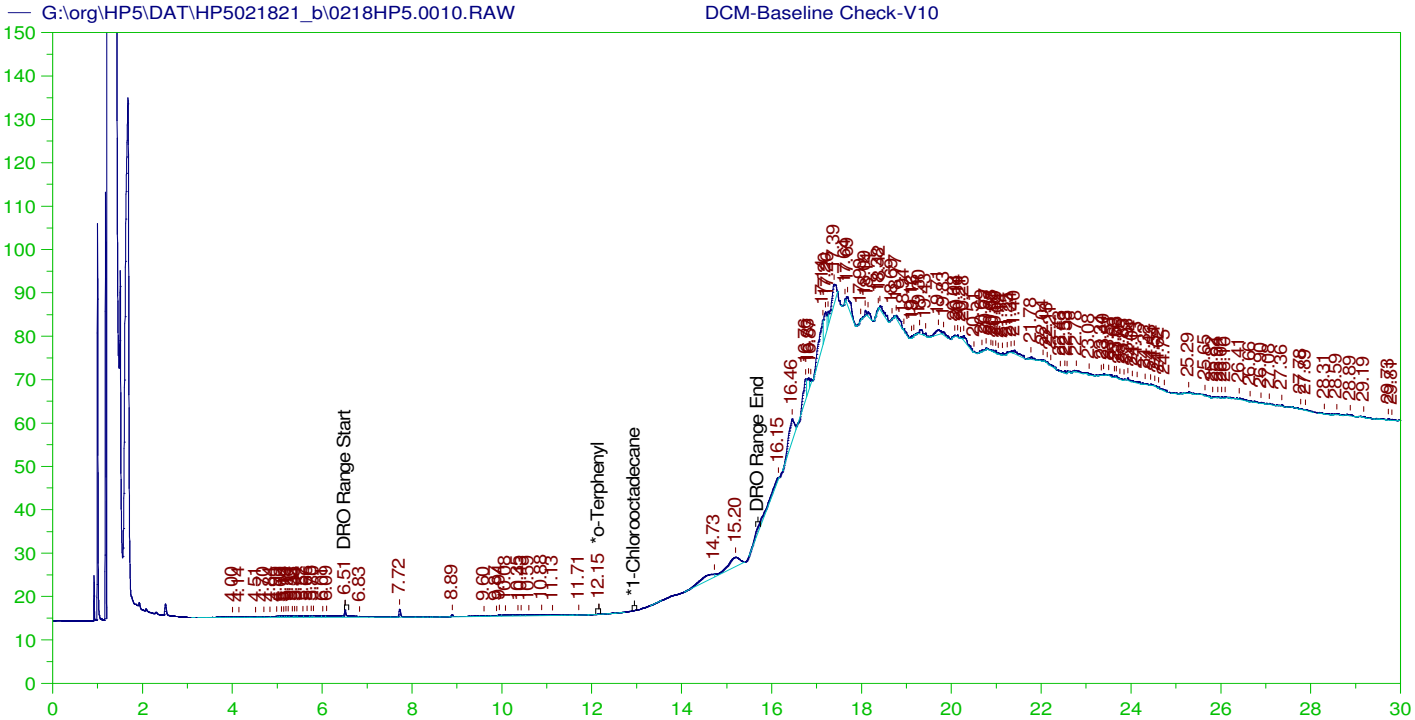
DRO Area:6.73131E+07 DRO Amount: 2358.354
TEH Area:4.193721E+08 TEH Amount: 14692.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14692.95 | 293.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | 85-115 |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\009_CCV_0218HP509r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

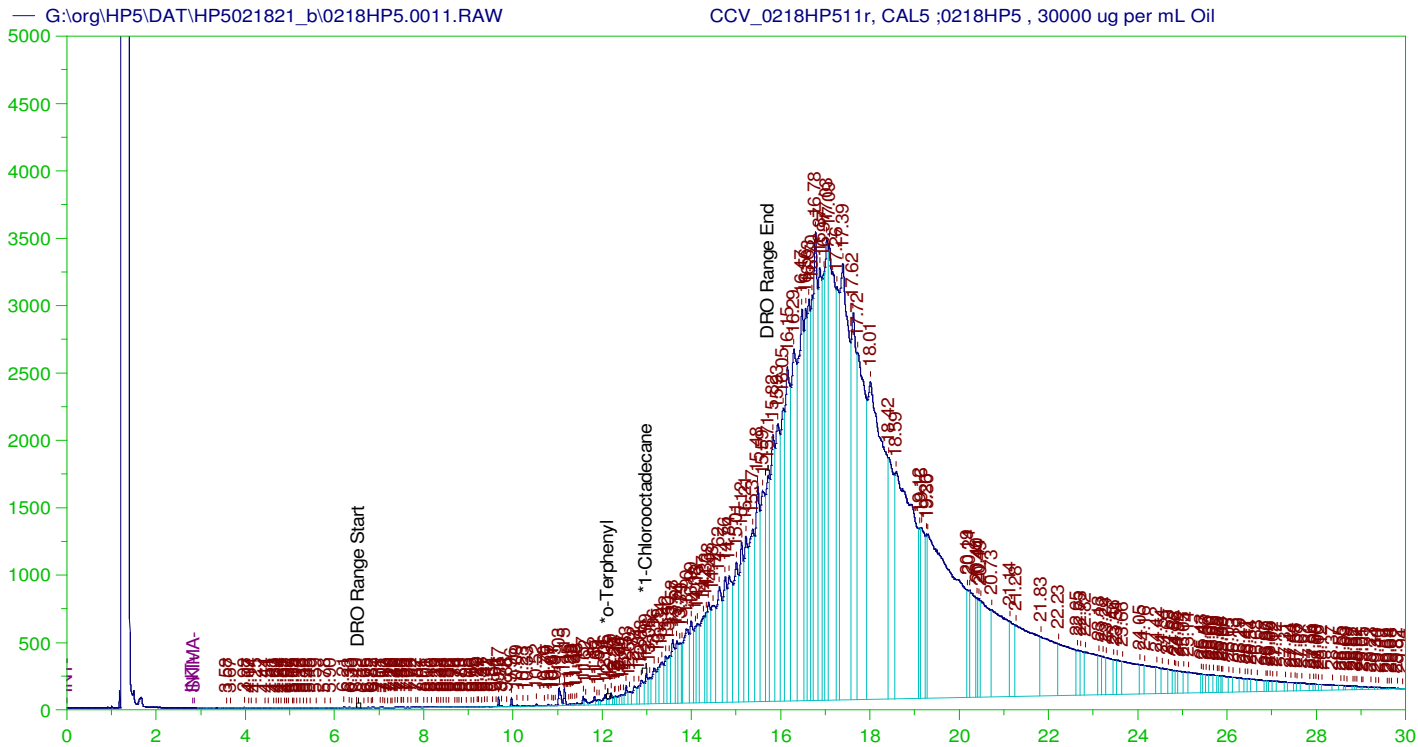
Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0010.RAW
Date & Time Acquired: 2/18/2021 4:56:16 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.153 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.957 | 200. | . | . | - |

DRO Area:108629.1 DRO Amount: 3.687675
TEH Area:543425.7 TEH Amount: 18.44789

G:\org\HP5\dat\HP5021821_b\Review\010_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW
Date & Time Acquired: 2/18/2021 5:38:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | - |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | - |

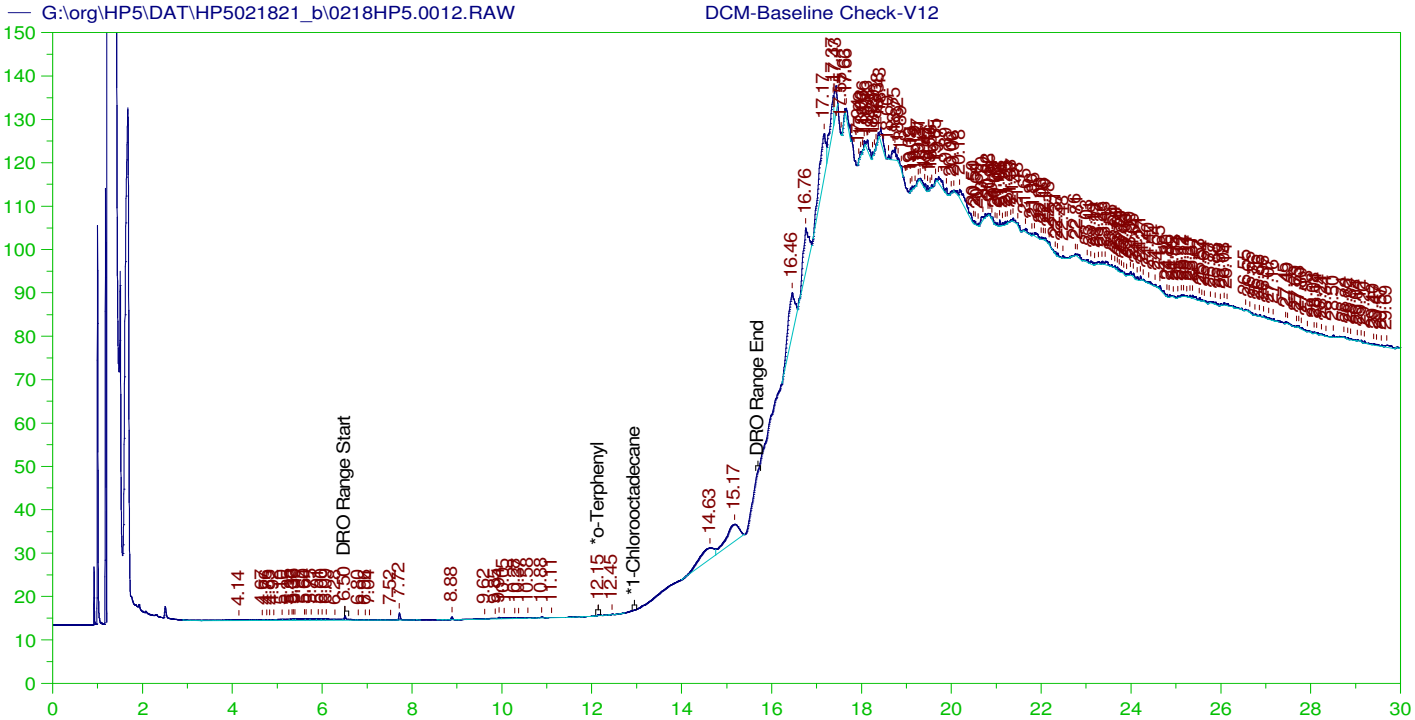
DRO Area:1.319327E+08 DRO Amount: 4622.338
TEH Area:8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 28207.69 | 564.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | 85-115 |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\011_CCV_0218HP511r_DR_OIL-021811-AA-L0.xls



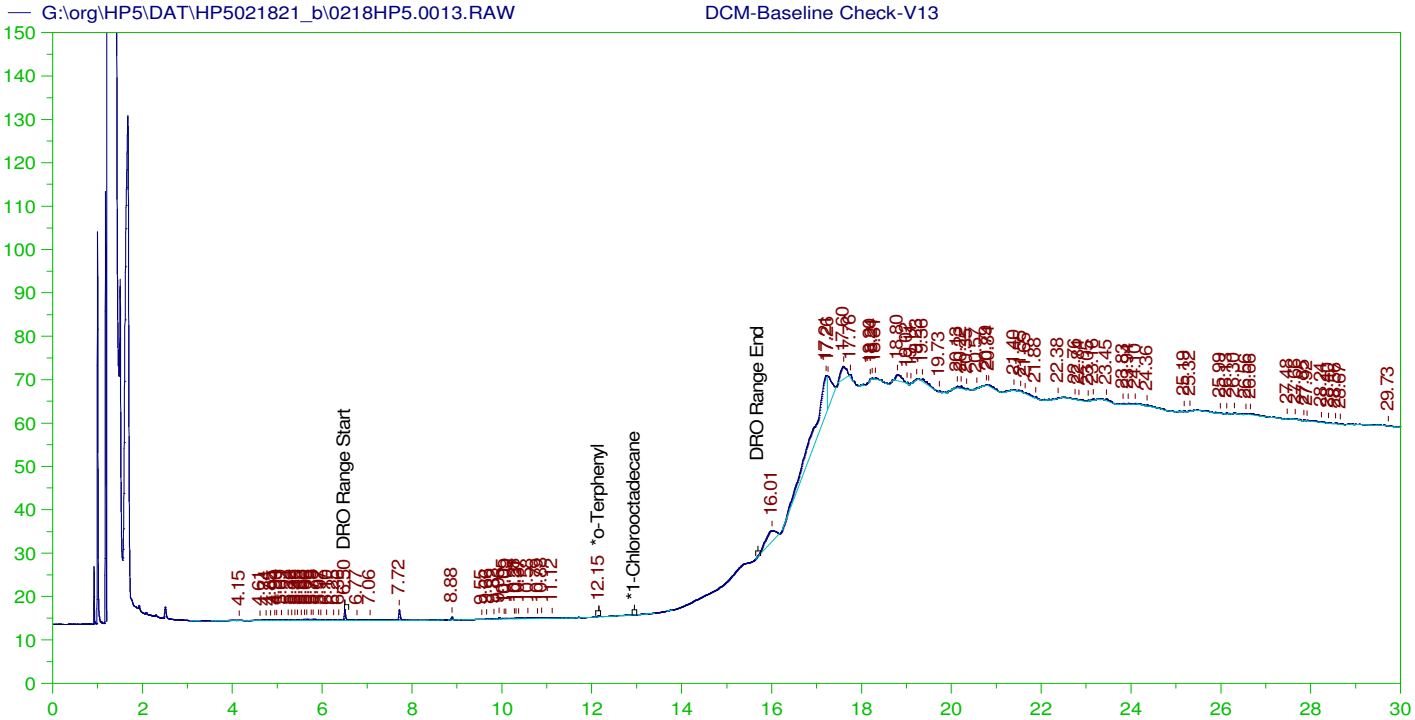

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0012.RAW
Date & Time Acquired: 2/18/2021 6:20:48 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:186033.1 DRO Amount: 6.31534
TEH Area:888262.2 TEH Amount: 30.1542




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

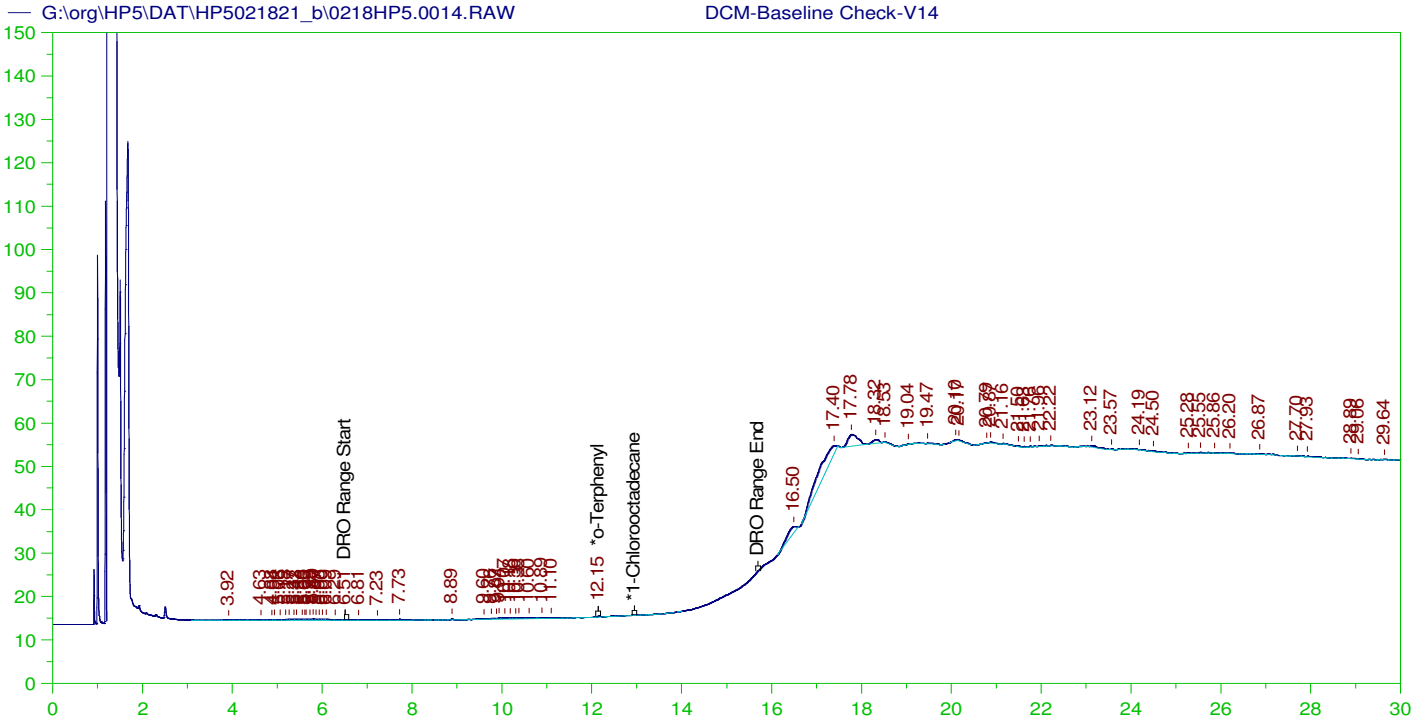
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0013.RAW
Date & Time Acquired: 2/18/2021 7:03:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.152 | 200. | .033 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:40824.55 DRO Amount: 1.385888
TEH Area:476705.3 TEH Amount: 16.18291

G:\org\HP5\dat\HP5021821_b\Review\013_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

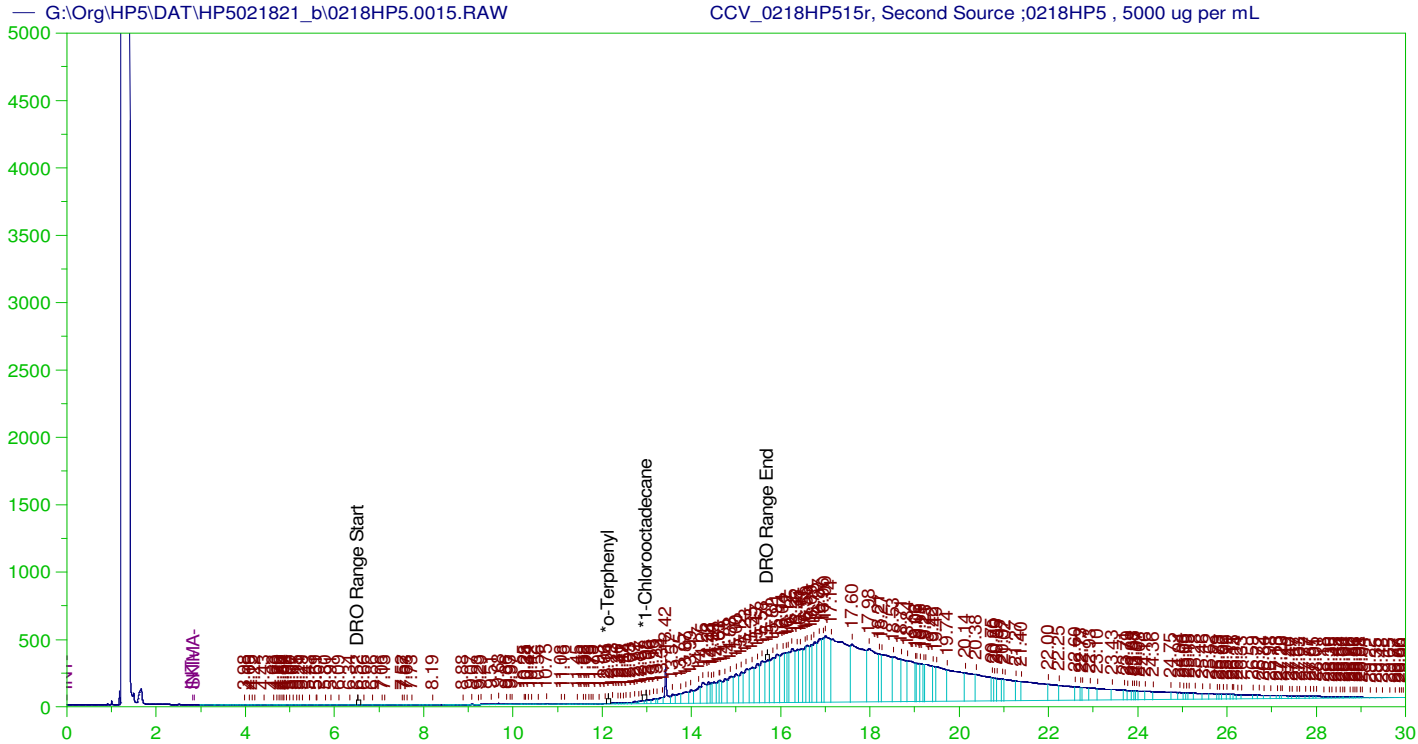
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0014.RAW
Date & Time Acquired: 2/18/2021 7:45:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.148 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.949 | 200. | . | . | - |

DRO Area:30445.24 DRO Amount: 1.033537
TEH Area:297634.4 TEH Amount: 10.10392

G:\org\HP5\dat\HP5021821_b\Review\014_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL
Raw File: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW
Date & Time Acquired: 2/18/2021 8:27:37 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 - |

DRO Area:2.558549E+07 DRO Amount: 0.8964027
TEH Area:1.562544E+08 TEH Amount: 5.474465

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5.47 | .11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | | 85-115 |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\015_CCV_0218HP515r_DR_OIL-021811-AA-L0.xls

| Write Sequence Data File | Sample Nan Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.09.20 13:12:26 -06:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/11/2021 11:55:04 A**

Prep Batch **160213** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/12/2021 2:15:00 P**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MB-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| Start time: 12:16 PM, 10/11/2021. End time: 10/12/2021 at 7:00 AM. SGT was carried out on remainder of 0.9 mL sample by ALN on 10/14/2021. | | | | | | | | | | |
| LCS-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| LCS-RRO-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| All bottles were completely used and disposed of. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000957 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001AMS | Drinking Water | 2 | 500 | 0 | 0 | 1.00 | 0.002 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001AMSD | Drinking Water | 2 | 500 | 0 | 0 | 1.00 | 0.002 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2.Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002AMS-RRO | Drinking Water | 2 | 515 | 0 | 0 | 1.00 | 0.00194 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002AMSD-RRO | Drinking Water | 2 | 515 | 0 | 0 | 1.00 | 0.00194 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100824-001A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Client said to proceed with out of hold sample. | | | | | | | | | | |
| B21100827-003A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100828-001A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Lines 12-13 Start time: 12:47 PM, 10/11/2021. End time: 10/12/2021 at 7:00 AM. | | | | | | | | | | |
| B21100828-002A | Drinking Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100834-001A | Aqueous | 2 | 1010 | 0 | 0 | 1.00 | 0.00099 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Lines 14-16 Start time: 3:21 PM, 10/11/2021. End time: 10/12/2021 at 9:25 AM | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14354 | Dichloromethane EC119 | 8/3/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 10/10/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | all QC | 5g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/11/2021 11:55:04 A**

Prep Batch **160213** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/12/2021 2:15:00 P**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| B21100834-002A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| B21100834-003A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/11/2021 | 10/12/2021 |

| Number | Reagent Name | Exp Date | |
|---|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 | |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 | |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 | |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 | |
| 14354 | Dichloromethane EC119 | 8/3/2023 | |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 10/10/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | all QC | 5g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*13-Oct-21*

**Run ID** GCFID-HP5-B_211011B

**Run Start Date:** 10/11/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767356 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/13/2021 12:1 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.059366 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2131862 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767357 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 12:5 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.017043 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.226186 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767358 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 1:38: | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.79665 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 105% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.35982 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.220412 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767359 | LCS-160213 | HC-8015-DRO- | LCS-DOD | | 10/13/2021 3:47: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.25644 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 102% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.46345 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 110% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2109474 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767360 | MB-160213 | HC-8015-DRO- | MBLK | | 10/13/2021 4:29: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0749 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.221817 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 111% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767361 | B21100824-001 | HC-8015-DRO- | SAMP | | 10/13/2021 5:12: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0313208 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.190907 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 100% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.190907 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767362 | B21100827-001 | HC-8015-DRO- | SAMP | | 10/13/2021 6:38: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.2248985 | | 0 | 0 | 0 | 0.0372273 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.17043886 | | 0 | 0 | 0 | 0.0841203 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.6724572 | | 0 | 0 | 0 | 0.0716793 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1375347 | | 0.1914 | 0 | 0 | 0.0004106 | 0.002 | 0 | 72% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767363 | B21100827-002 | HC-8015-DRO- | SAMP | | 10/13/2021 8:47: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.2302286 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.16414309 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.6783934 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1010864 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 53% | 56 | 125 | 0% | S |
| TEH(Oil Range) | X | mg/L | | 0.44483149 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767364 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/13/2021 10:1 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3211.686 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3928.242 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 207.1025 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103551% | 50 | 150 | 0% | S |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3211.686 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767365 | CCV_1011HP56 | HC-8015-DRO- | CCV | | 10/13/2021 10:5 | 1 | R368594 | | 0 | 0 | |

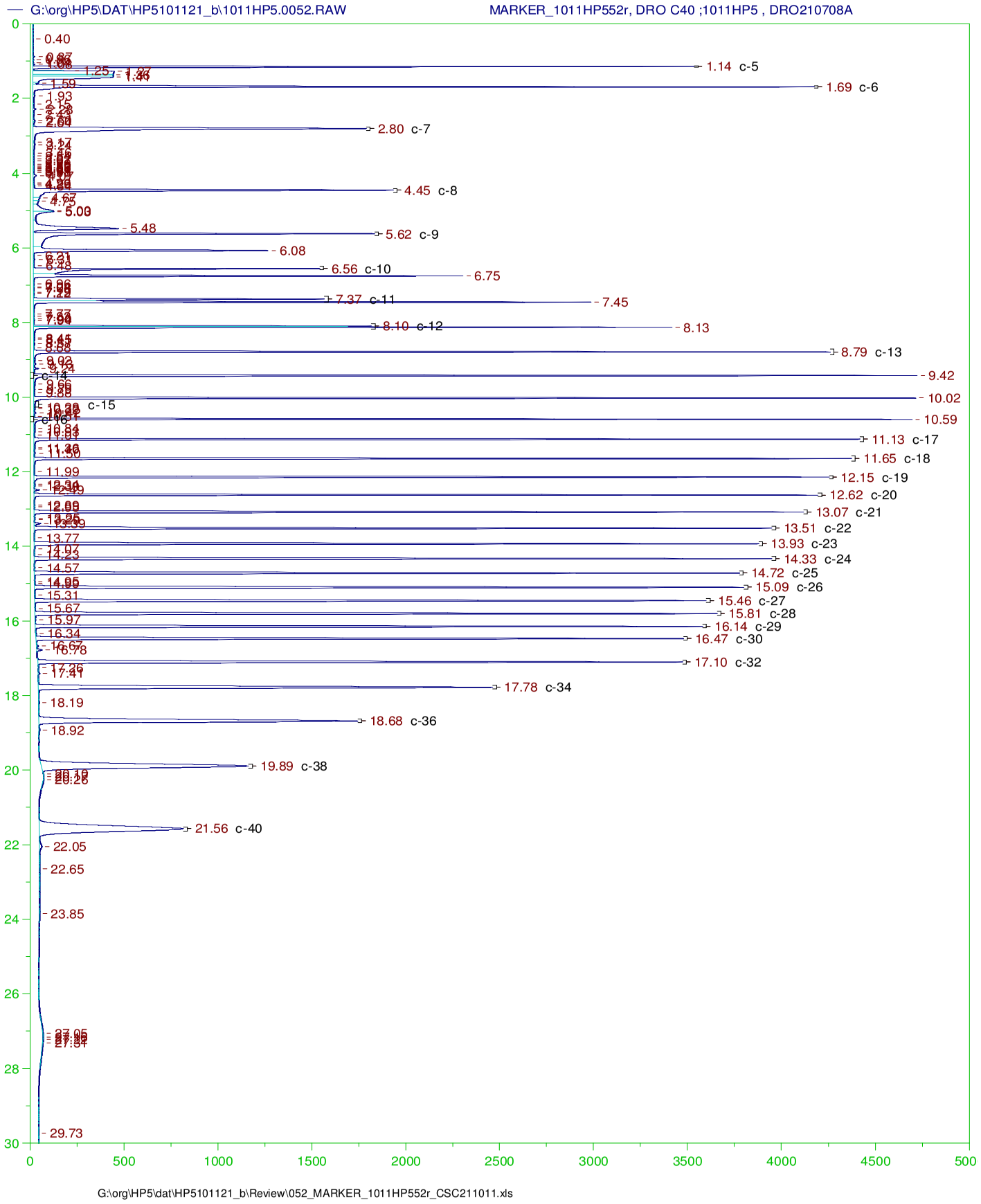
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.045149 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 101% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2240021 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 112% | 80 | 120 | 0% | |

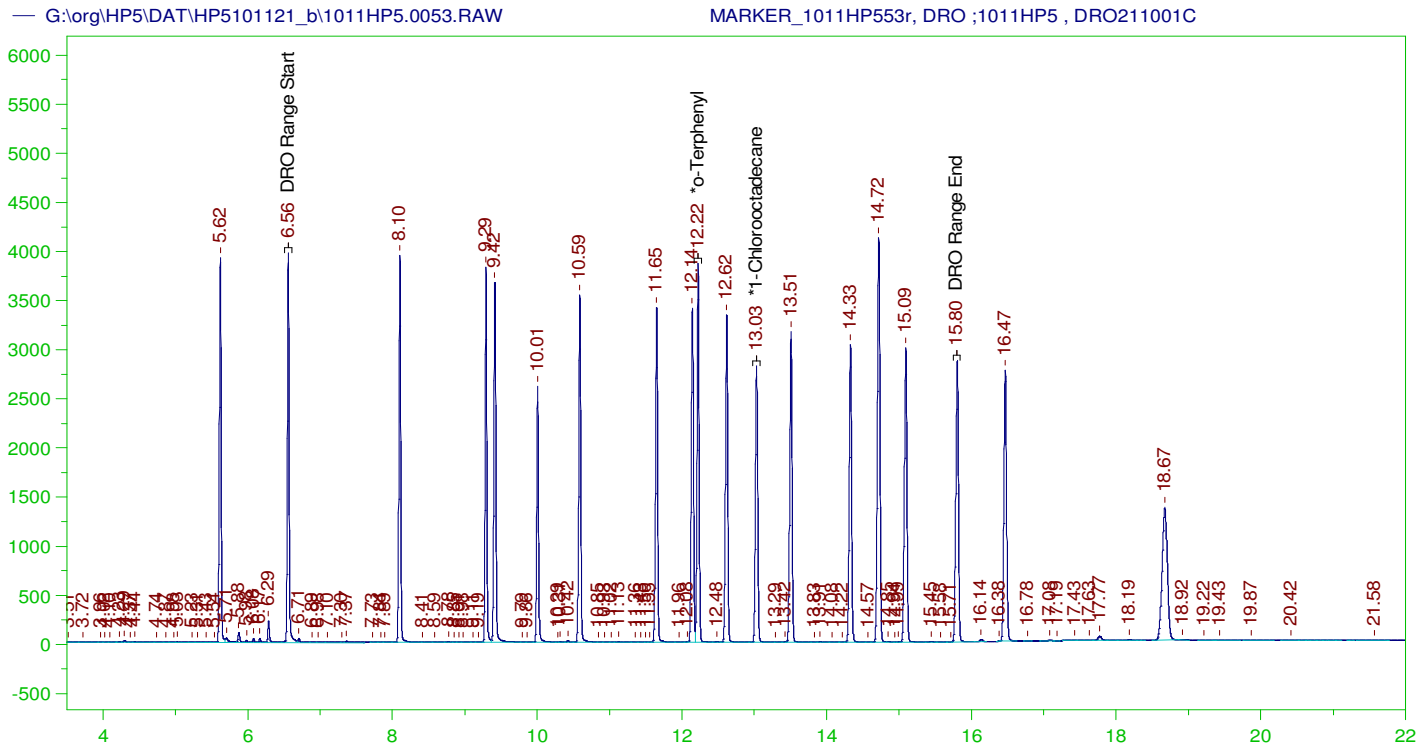
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767366 | CCV_1011HP56 | HC-8015-DRO- | CCV | | 10/13/2021 11:3 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.93329 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.4674 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 103% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2084819 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 80 | 120 | 0% | |

*4*

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.56r | DCM-Baseline Check-V56 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.57r | DCM-Baseline Check-V57 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.58r | LCS-160213 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.59r | MB-160213 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.60r | B21100824-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.61r | DCM-Baseline Check-V61 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.62r | B21100827-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1045 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.64r | DCM-Baseline Check-V64 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.65r | B21100827-002A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.66r | MARKER_1011HP566r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.67r | MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.68r | CCV_1011HP568r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.69r | CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\org\HP5\DAT\HP5101121_b\1011HP5.0052.RAW
MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A
0.40
1.14 c-5
1.69 c-6
2.80 c-7
4.45 c-8
5.48
5.62 c-9
6.08
6.56 c-10
6.75
7.37 c-11
7.45
8.10 c-12
8.13
8.79 c-13
9.42
10.02
10.59
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.09 c-26
15.46 c-27
15.81 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
19.89 c-38
21.56 c-40
29.73
G:\org\HP5\dat\HP5101121_b\Review\052_MARKER_1011HP552r_CSC211011.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

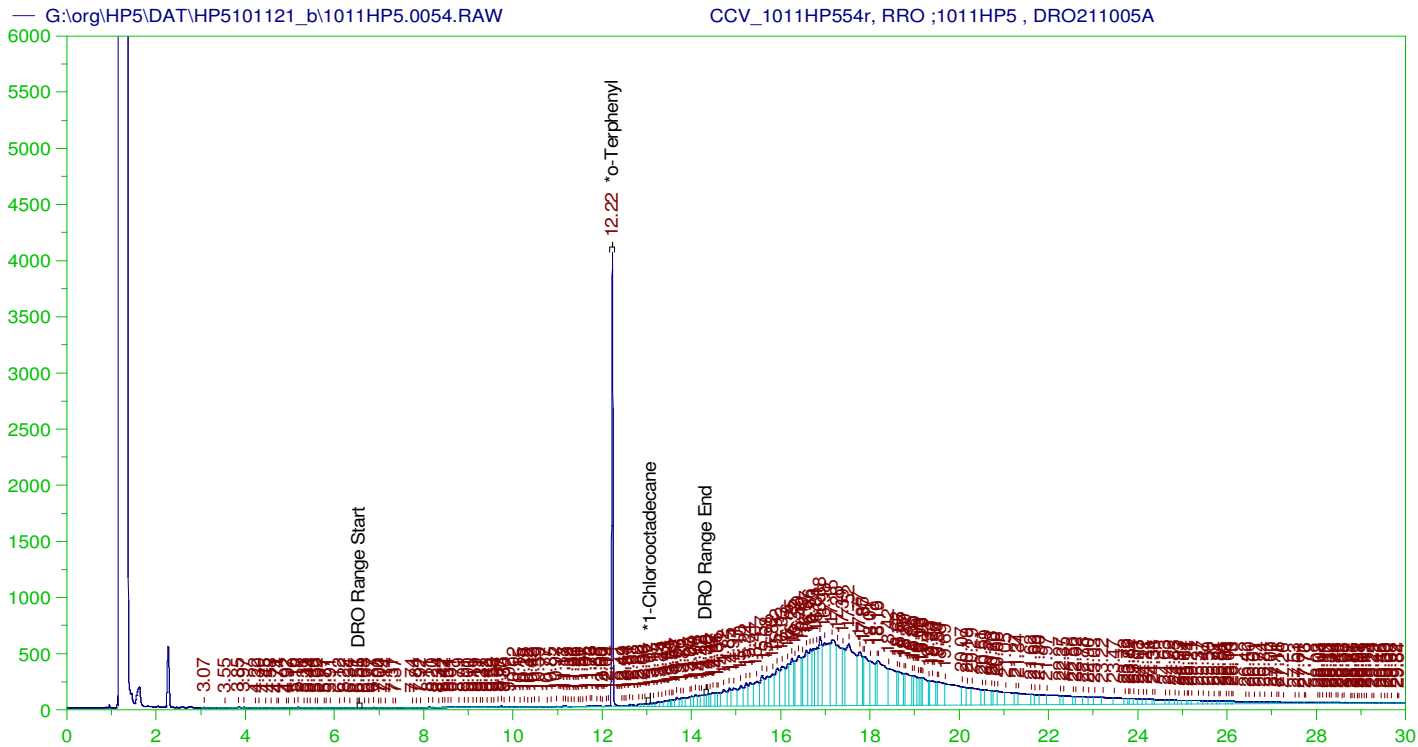
Sample Name: MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0053.RAW
Date & Time Acquired: 10/13/2021 12:12:14 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 213.186 | 106.59 | - |
| *1-Chlorooctadecane | 13.031 | 200. | 172.732 | 86.37 | - |

DRO Area:9.775298E+07 DRO Amount: 3318.46
TEH Area:1.195781E+08 TEH Amount: 4059.366

G:\org\HP5\dat\HP5101121_b\Review\053_MARKER_1011HP553r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | - |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | - |

DRO Area:6639596 DRO Amount: 232.6221
TEH (Oil Range) Area:1.431985E+08 TEH (Oil Range) Amount: 5017.043

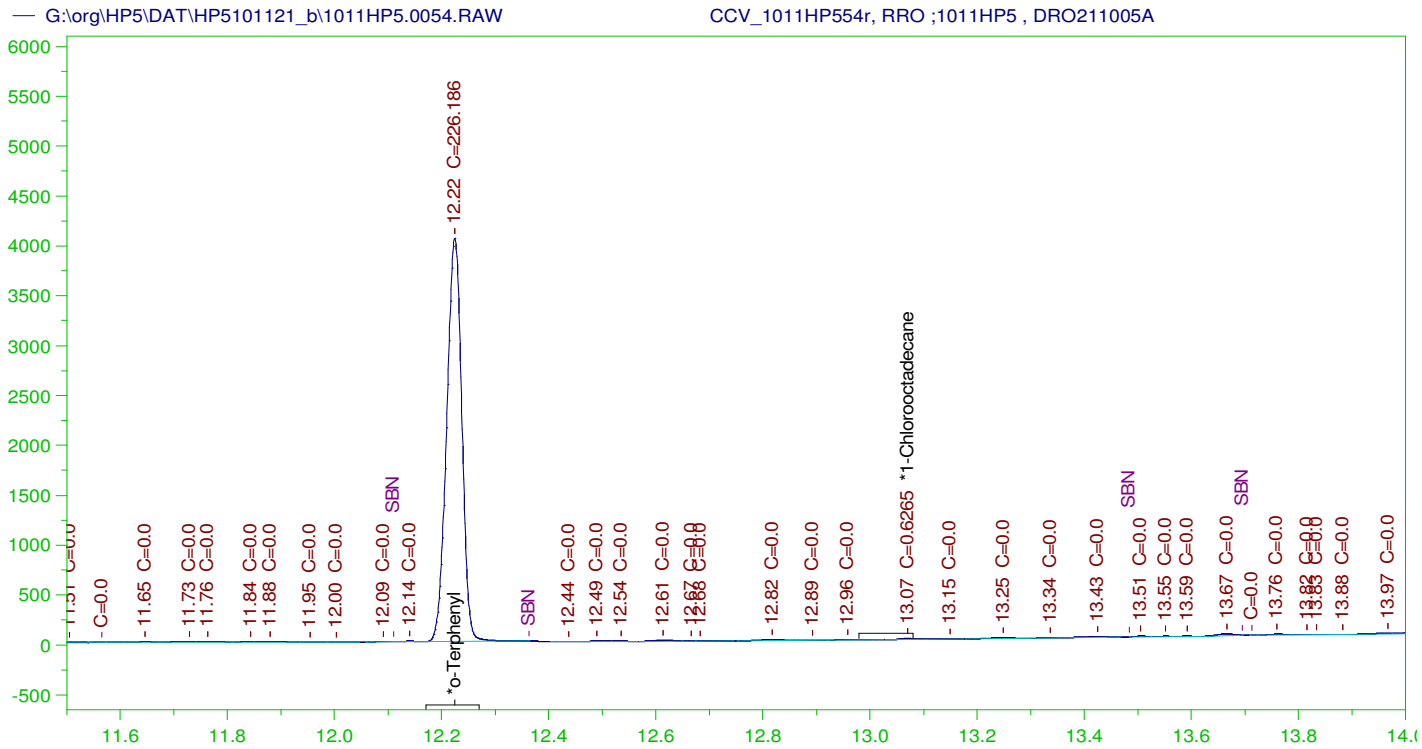
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5017.04 | 100.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | 85-115 |

AMN 10/20/2021

G:\org\HP5\dat\HP5101121_b\Review\054_CCV_1011HP554r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | - |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | - |

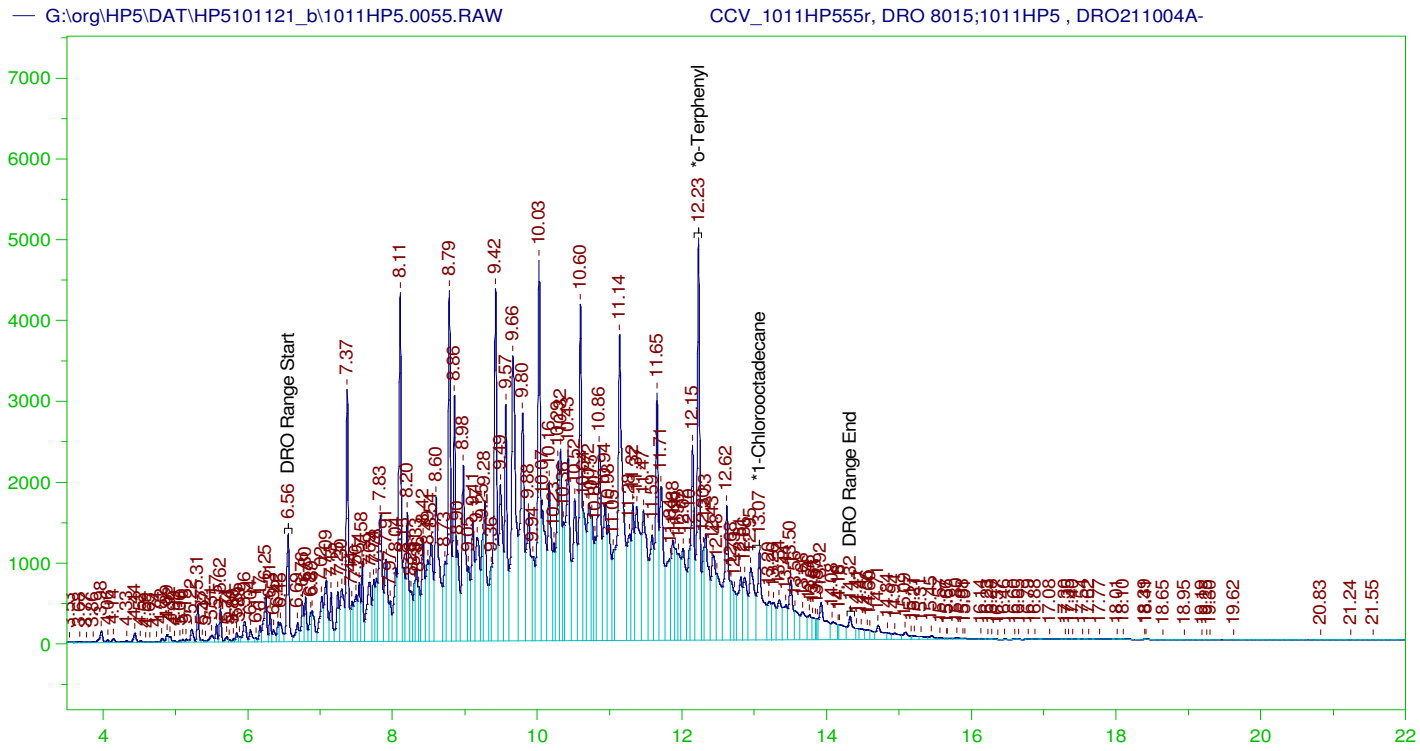
DRO Area:914620.3 DRO Amount: 32.04426
TEH Area:2179492 TEH Amount: 76.35976

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 76.36 | 1.53 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\054_CCV_1011HP554r_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | - |

DRO Area:4.653271E+08 DRO Amount: 15796.65
TEH Area:4.819167E+08 TEH Amount: 16359.82

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16359.82 | 109.07 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | 85-115 |

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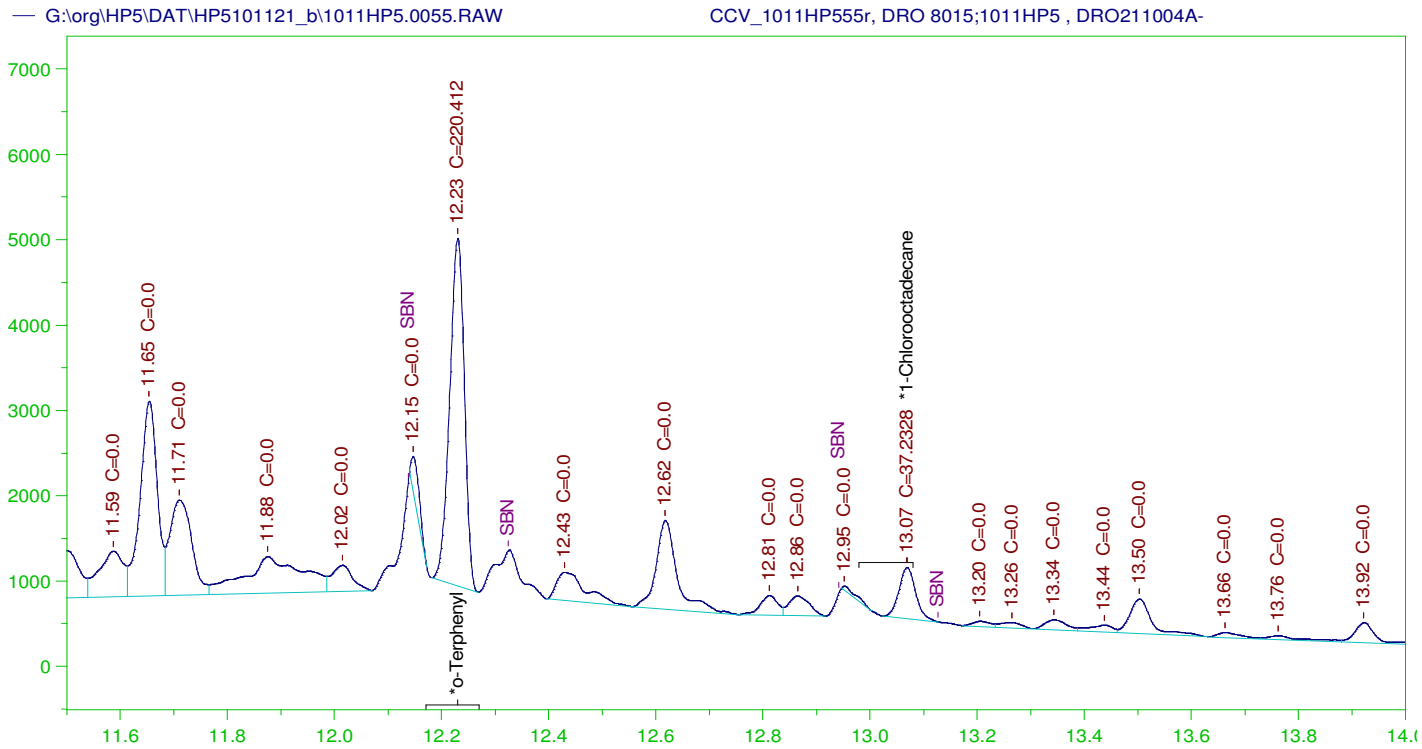


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | - |

DRO Area:2.582346E+08 DRO Amount: 8766.394
TEH Area:2.681562E+08 TEH Amount: 9103.206

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9103.21 | 60.69 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | 85-115 |

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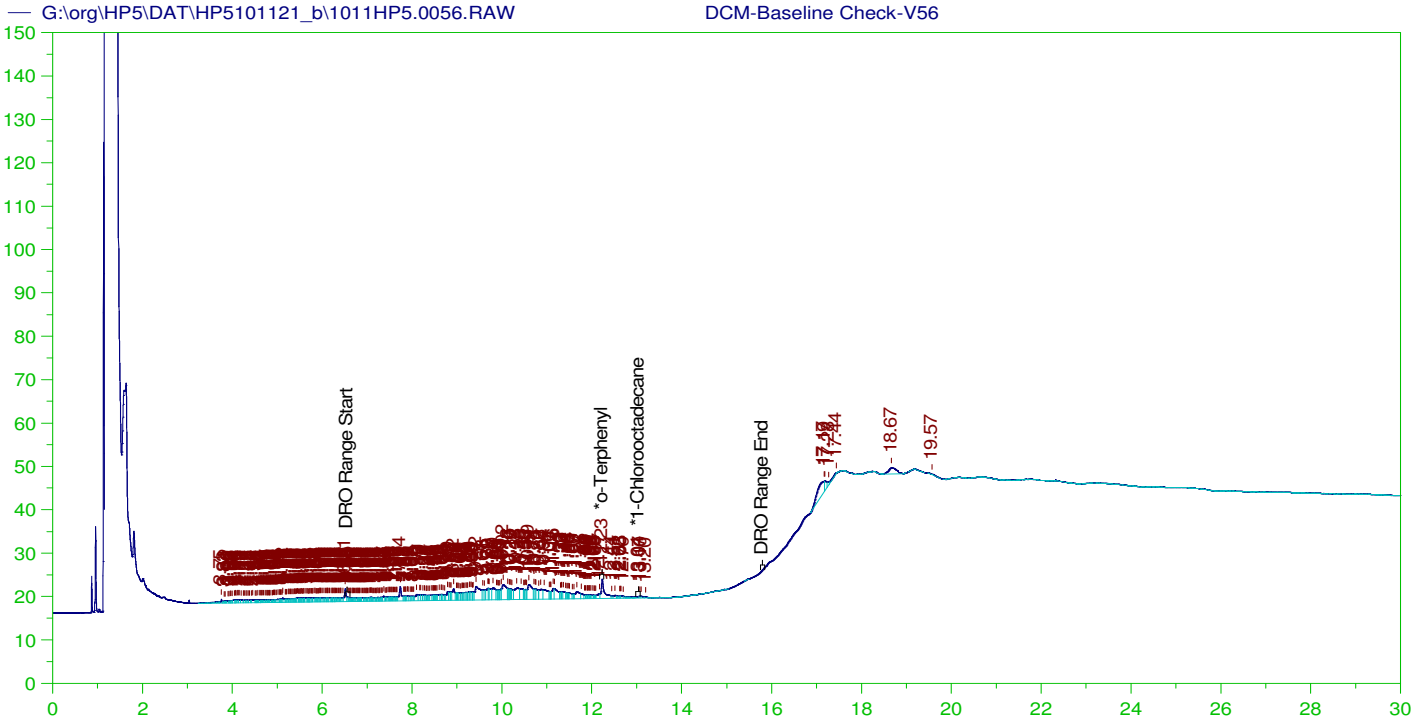



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

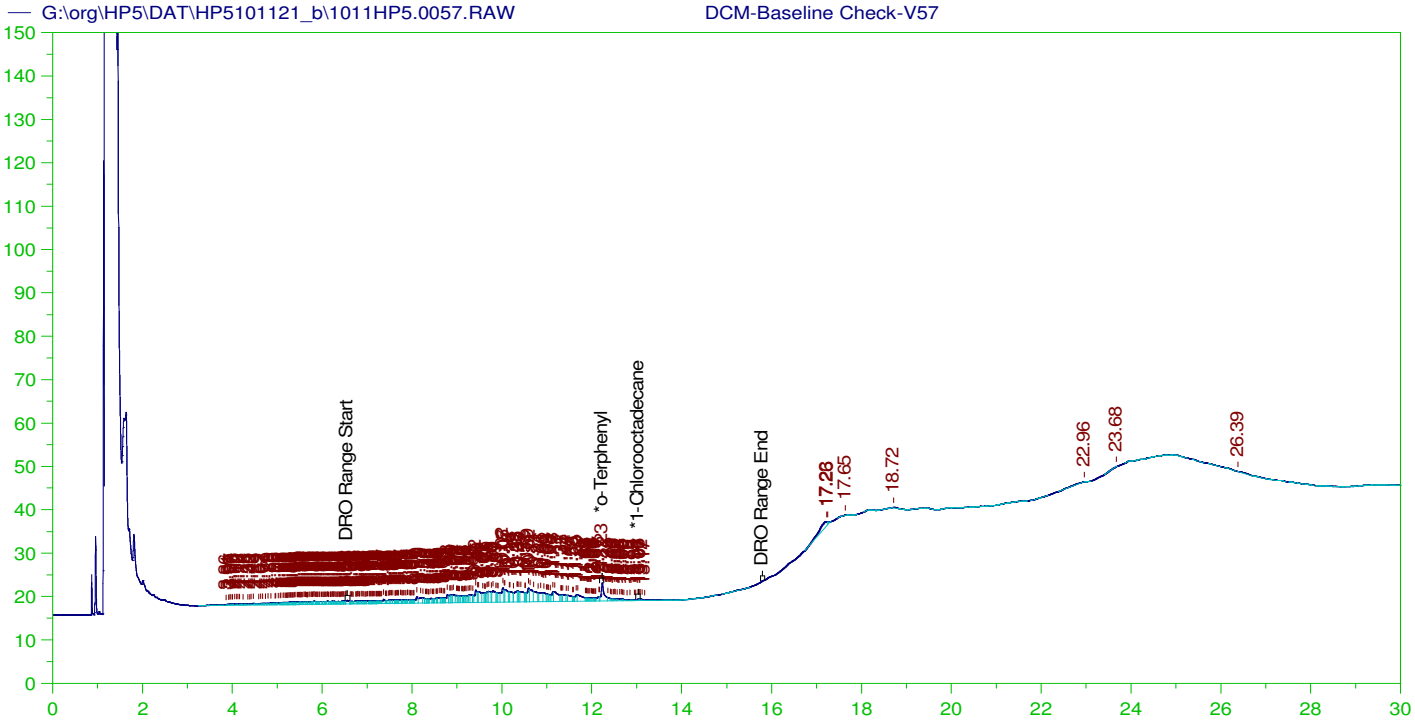
Sample Name: DCM-Baseline Check-V56
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0056.RAW
Date & Time Acquired: 10/13/2021 2:21:24 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | .663 | .33 | - |
| *1-Chlorooctadecane | 13.04 | 200. | .027 | .01 | - |

DRO Area:569787.8 DRO Amount: 19.34282
TEH Area:773369.7 TEH Amount: 26.25389

G:\org\HP5\dat\HP5101121_b\Review\056_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V57
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0057.RAW
Date & Time Acquired: 10/13/2021 3:04:13 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | .559 | .28 | - |
| *1-Chlorooctadecane | 13.035 | 200. | .033 | .02 | - |

DRO Area:519320.5 DRO Amount: 17.62959
TEH Area:643196.8 TEH Amount: 21.83486

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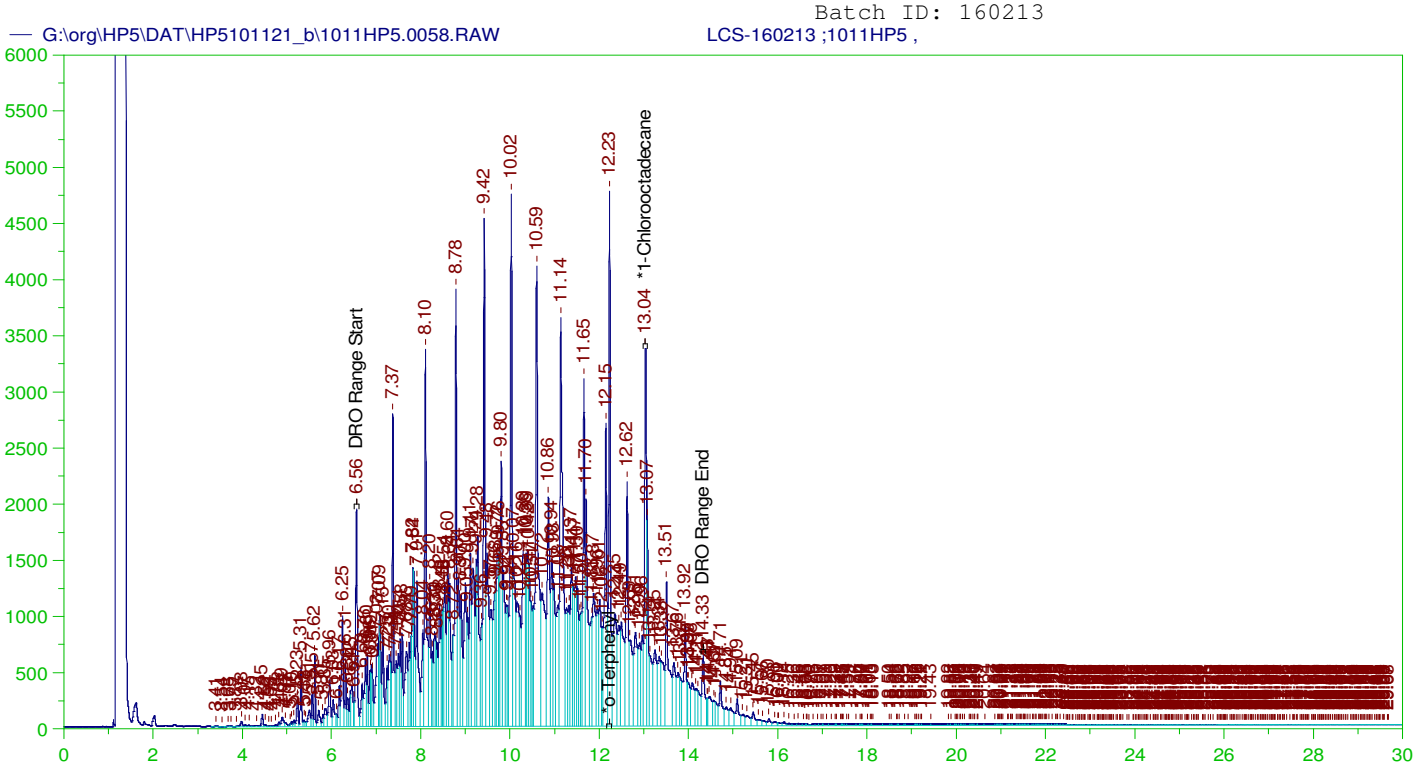
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0058.RAW
Date & Time Acquired: 10/13/2021 3:47:06 AM
Method File: G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .364 | 181.98 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .265 | 132.56 | - |

DRO Area:4.494139E+08 DRO Amount: 15.25644
TEH Area:4.849694E+08 TEH Amount: 16.46345

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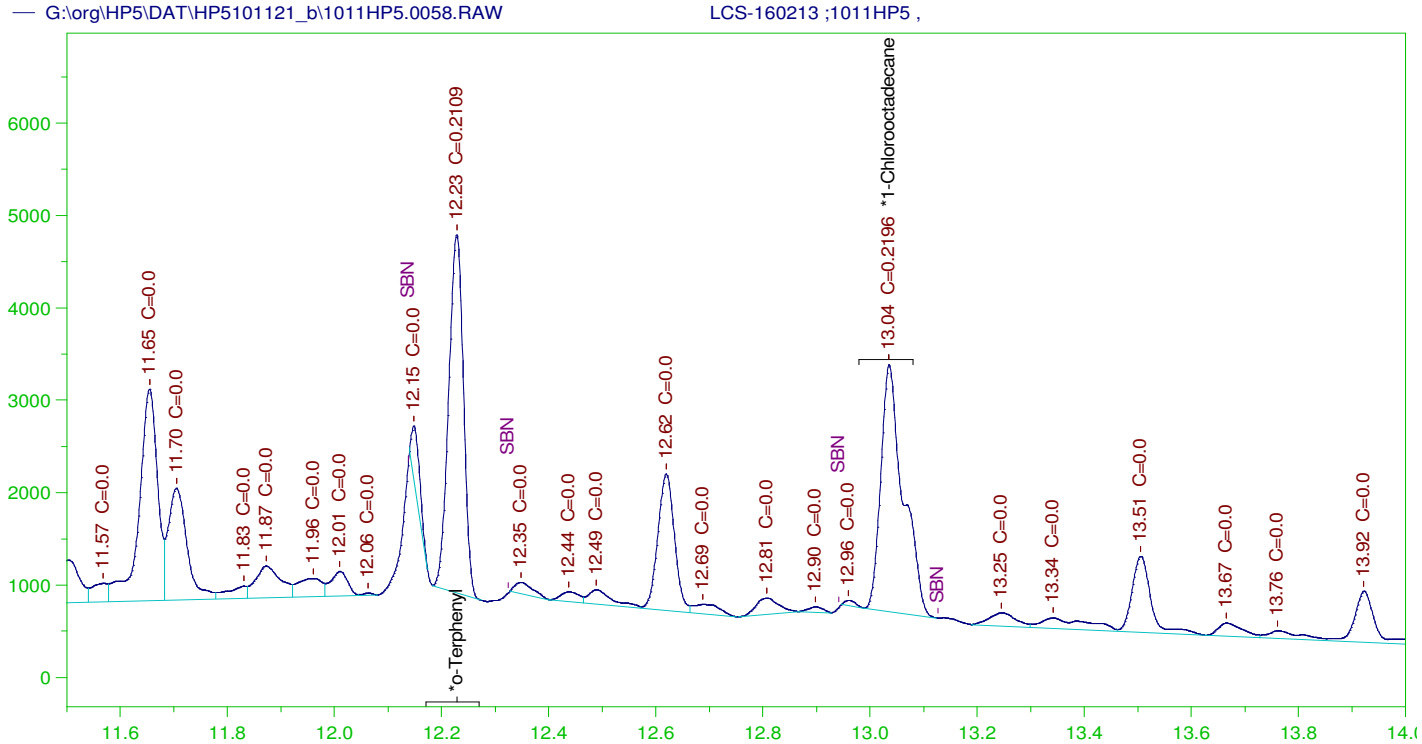
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0058.RAW
Date & Time Acquired: 10/13/2021 3:47:06 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

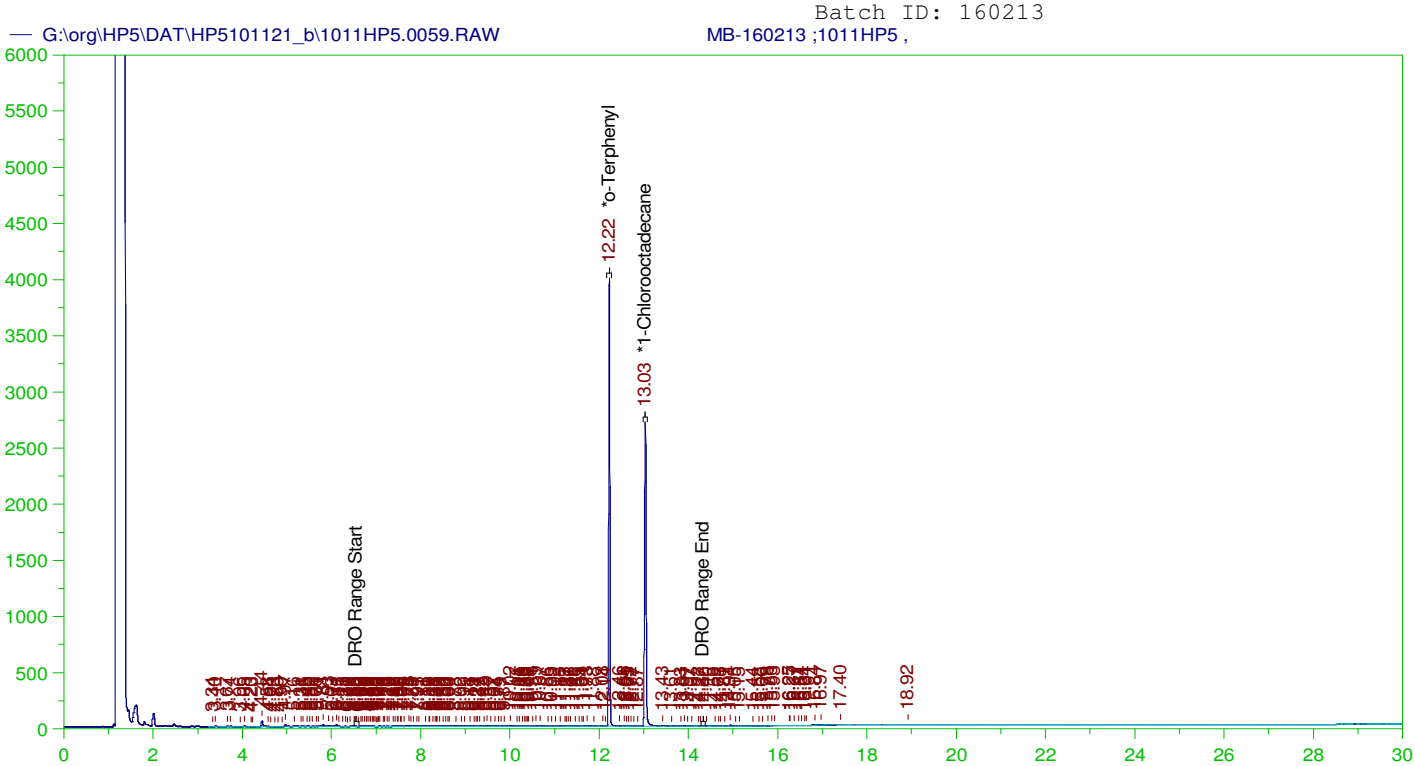
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .211 | 105.47 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .22 | 109.8 | - |

DRO Area:2.202292E+08 DRO Amount: 7.47621
TEH Area:2.340806E+08 TEH Amount: 7.946428

G:\org\HP5\dat\HP5101121_b\Review\058_LCS-160213_DS_8015-HS-L#.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

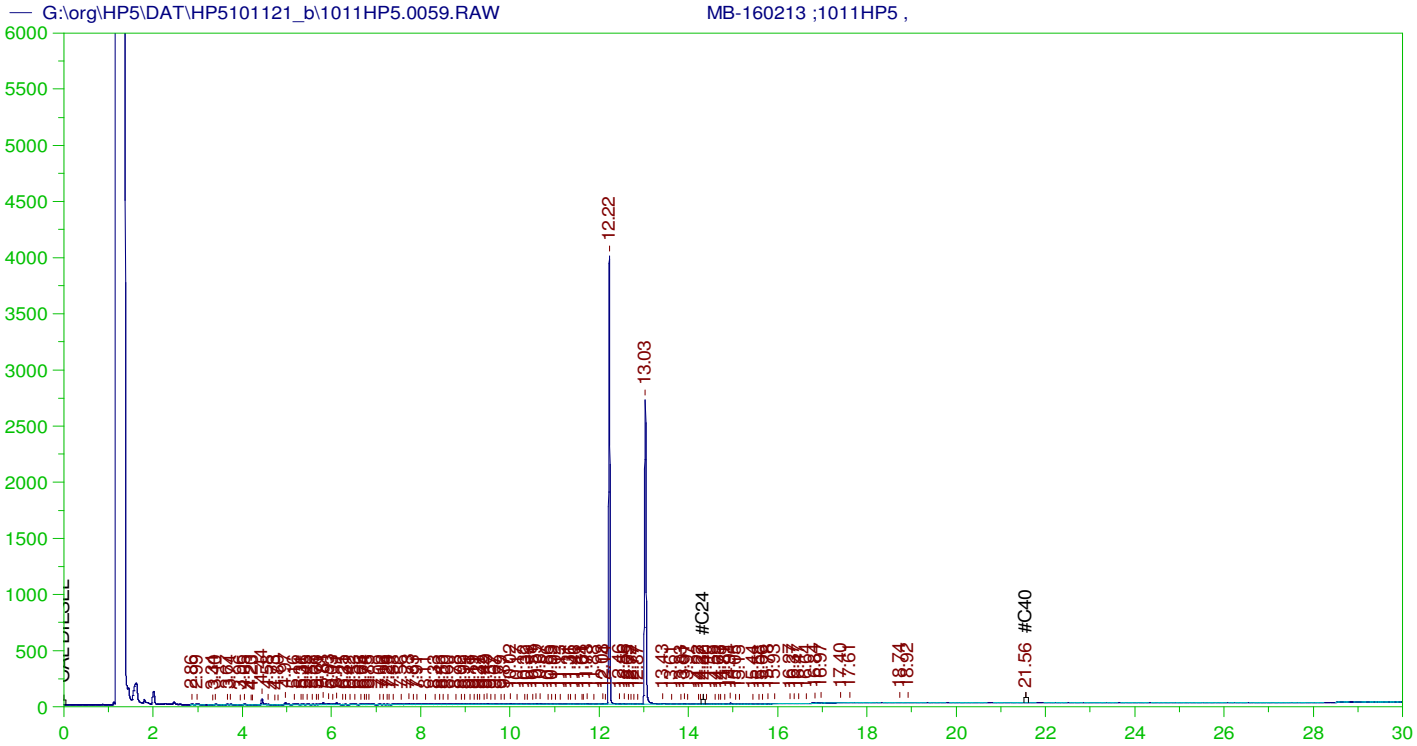
Sample Name: MB-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0059.RAW
Date & Time Acquired: 10/13/2021 4:29:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .2 | .222 | 110.91 | - |
| *1-Chlorooctadecane | 13.03 | .2 | .175 | 87.29 | - |

DRO Area:691525.5 DRO Amount: 0.0234755
TEH Area:1300256 TEH Amount: 4.414031E-02

G:\org\HP5\dat\HP5101121_b\Review\059_MB-160213_DR_8015-C24-HS-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0059.RAW
Date & Time Acquired: 10/13/2021 4:29:58 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:160534.3 RRO AMOUNT: 5.624414E-03

G:\org\HP5\dat\HP5101121_b\Review\059_MB-160213_DR_OIL-S-AJ-L%.xls

**ERH1778 (Pre-Chlorination RHSF)** Batch ID: 160213

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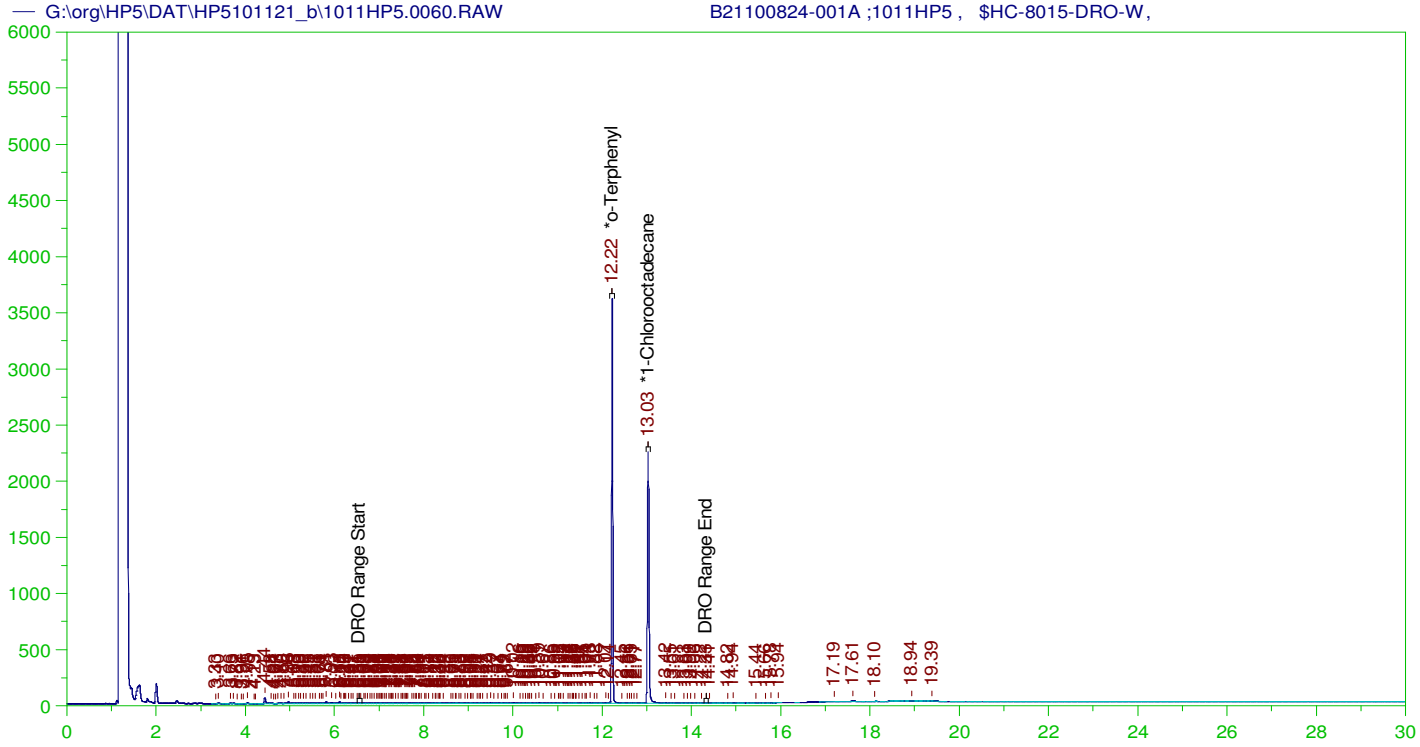



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100824-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW
Date & Time Acquired: 10/13/2021 5:12:46 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

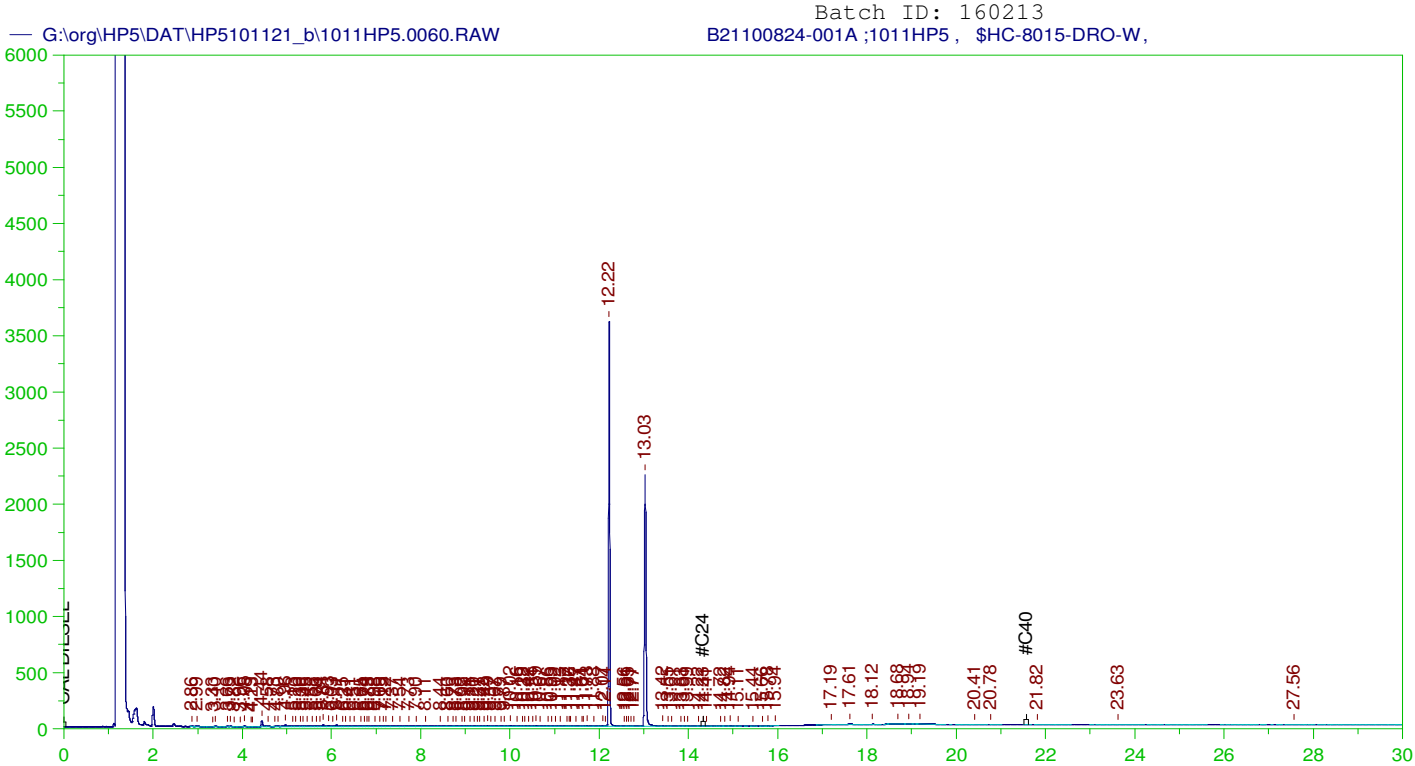
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .191 | 100.23 | - |
| *1-Chlorooctadecane | 13.028 | .19 | .139 | 73.23 | - |

DRO Area:655430.4 DRO Amount: 2.119063E-02
TEH Area:1210697 TEH Amount: 3.914286E-02

G:\org\HP5\dat\HP5101121_b\Review\060_B21100824-001A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100824-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW
Date & Time Acquired: 10/13/2021 5:12:46 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:101816.1 RRO AMOUNT: 3.397321E-03

G:\org\HP5\dat\HP5101121_b\Review\060_B21100824-001A_DR_OIL-S-AJ-L%.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

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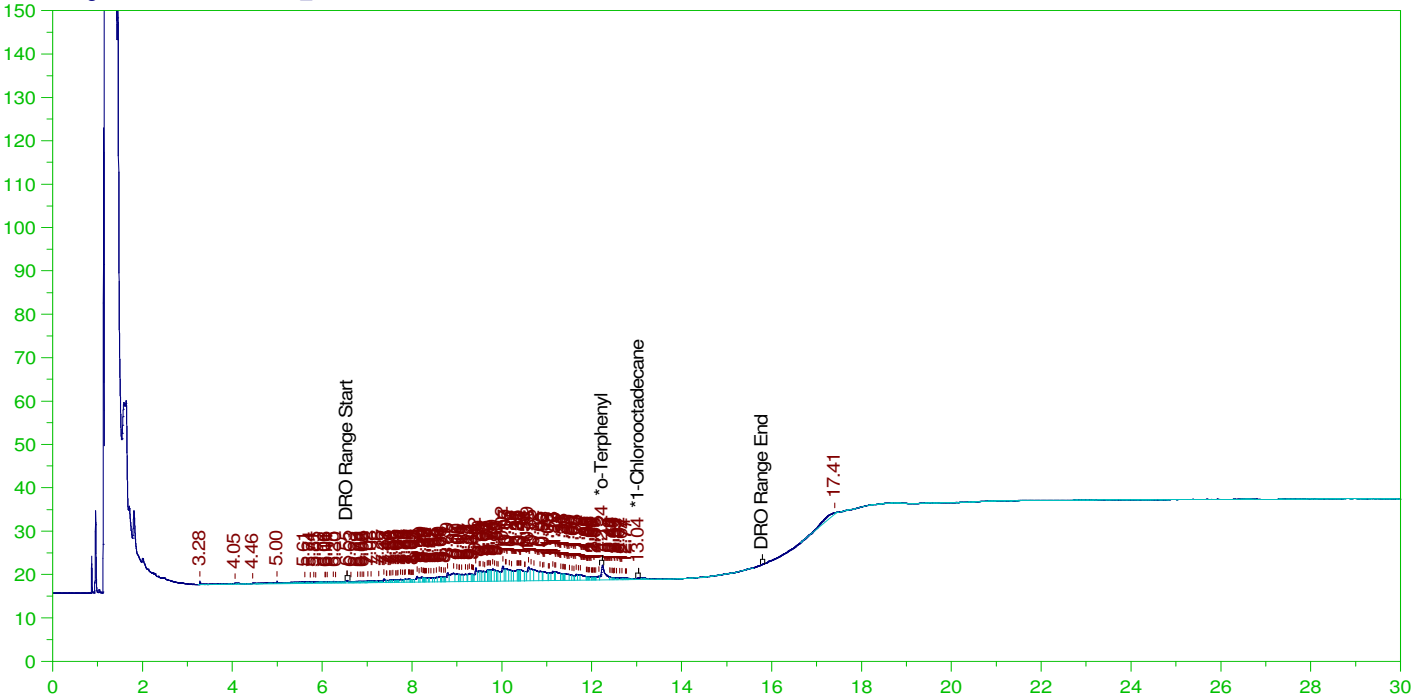


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0061.RAW
Date & Time Acquired: 10/13/2021 5:55:48 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.237 | .191 | .001 | .3 | - |
| *1-Chlorooctadecane | 13.037 | .191 | . | .03 | - |

DRO Area:486628.5 DRO Amount: 0.0158084
TEH Area:550572.7 TEH Amount: 1.788566E-02

G:\org\HP5\dat\HP5101121_b\Review\061_B21100827-001A_DR_8015-HS-LEXP.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

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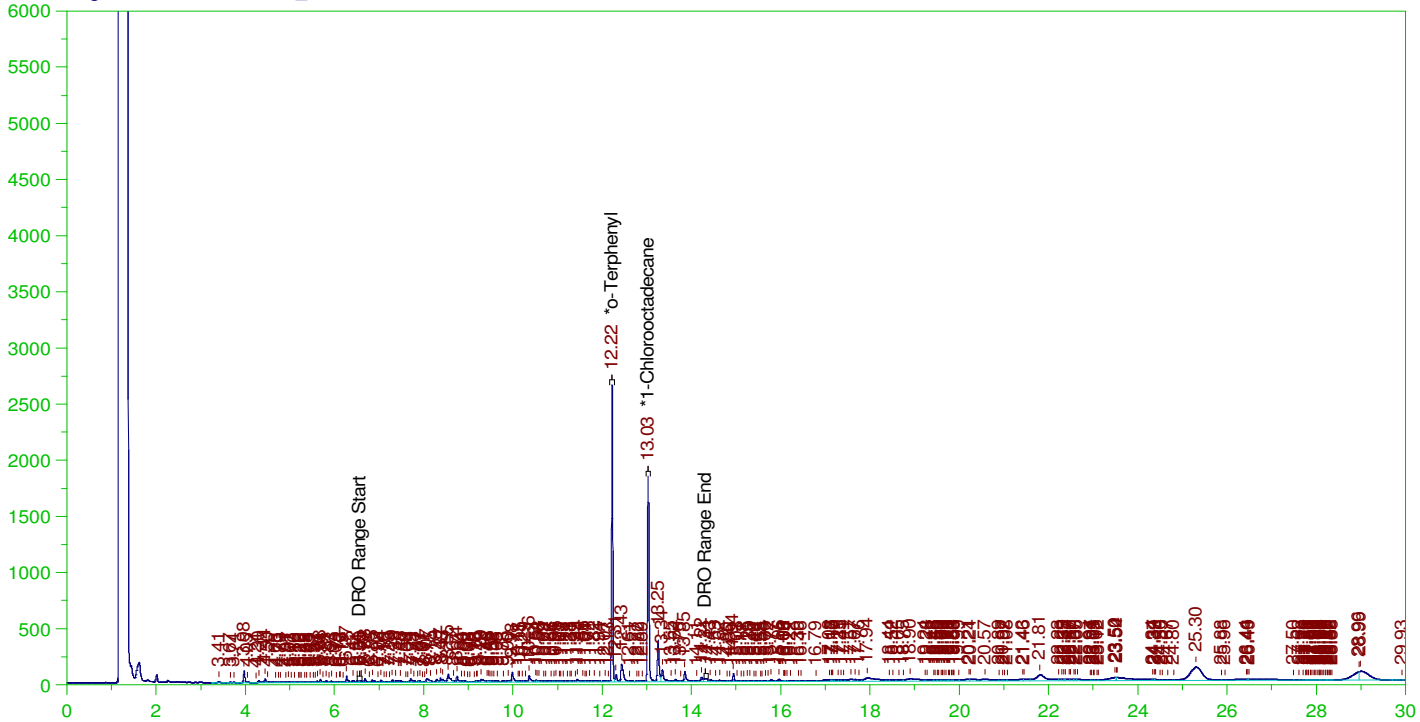


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.22 | .191 | .14 | 73.06 | - |
| *1-Chlorooctadecane | 13.028 | .191 | .111 | 58.04 | - |

DRO Area:6923030 DRO Amount: 0.2248985
TEH Area:2.070019E+07 TEH Amount: 0.6724572

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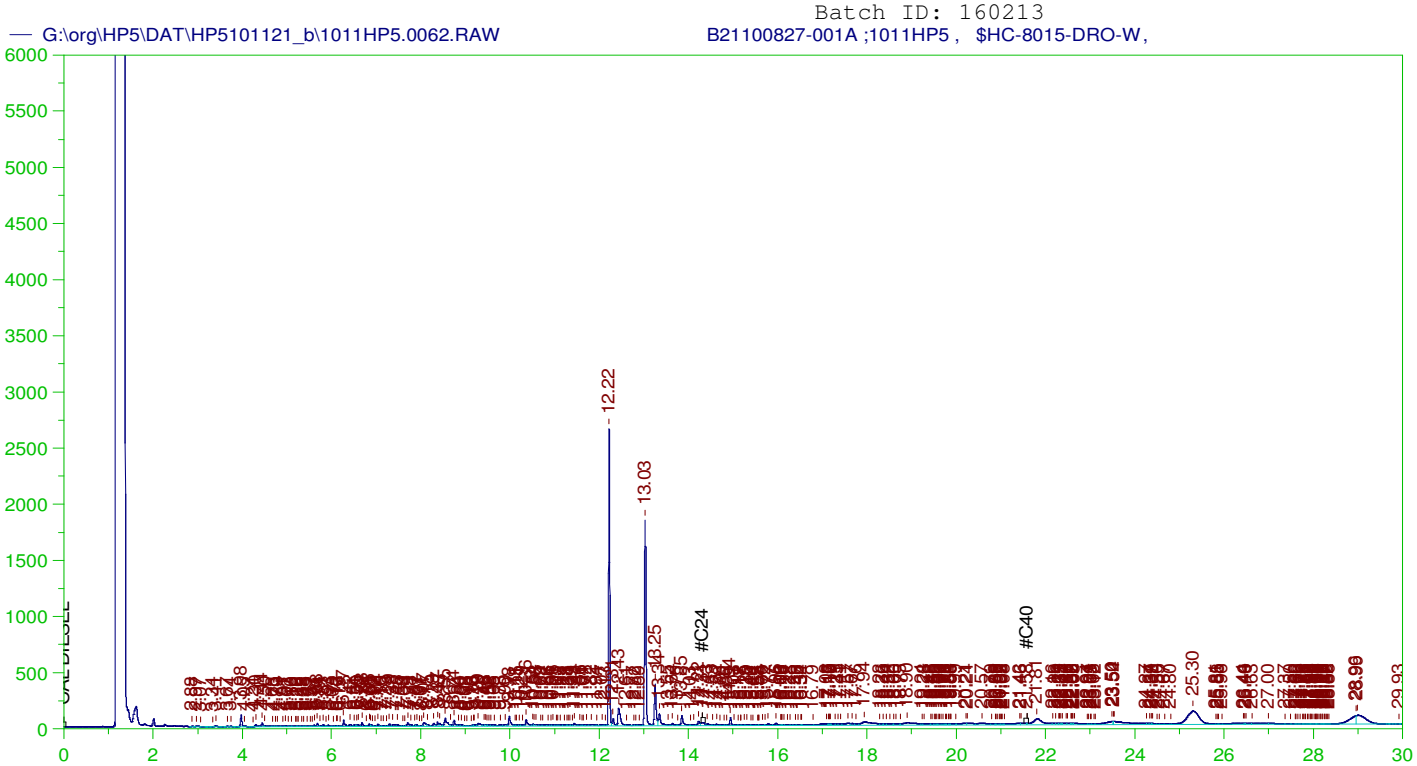
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:5083649 RRO AMOUNT: 0.1704389

**ERH1767 (RHMW12A)** Batch ID: 160213

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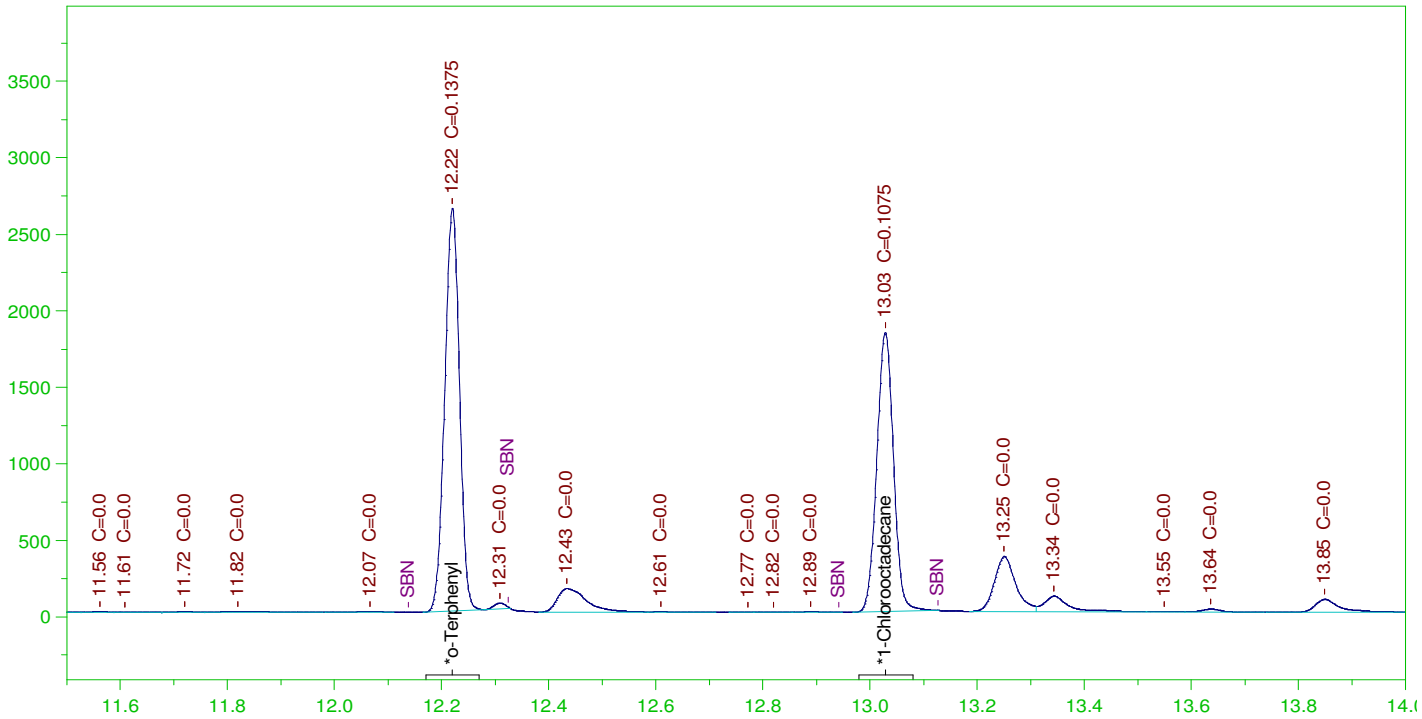



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

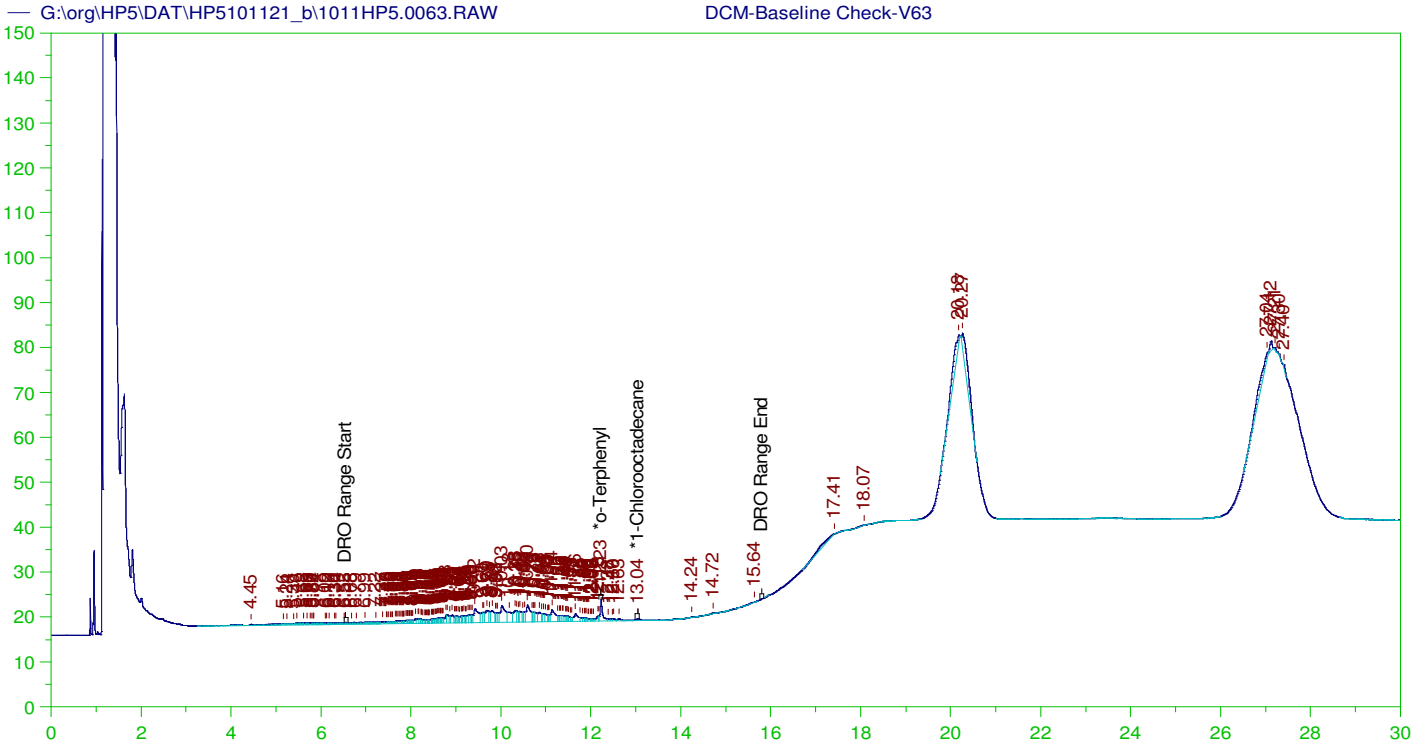
Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.22 | .191 | .138 | 71.86 | - |
| *1-Chlorooctadecane | 13.028 | .191 | .107 | 56.17 | - |

DRO Area:5915212 DRO Amount: 0.1921589
TEH Area:6878895 TEH Amount: 0.2234647

G:\org\HP5\dat\HP5101121_b\Review\062_B21100827-001A_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

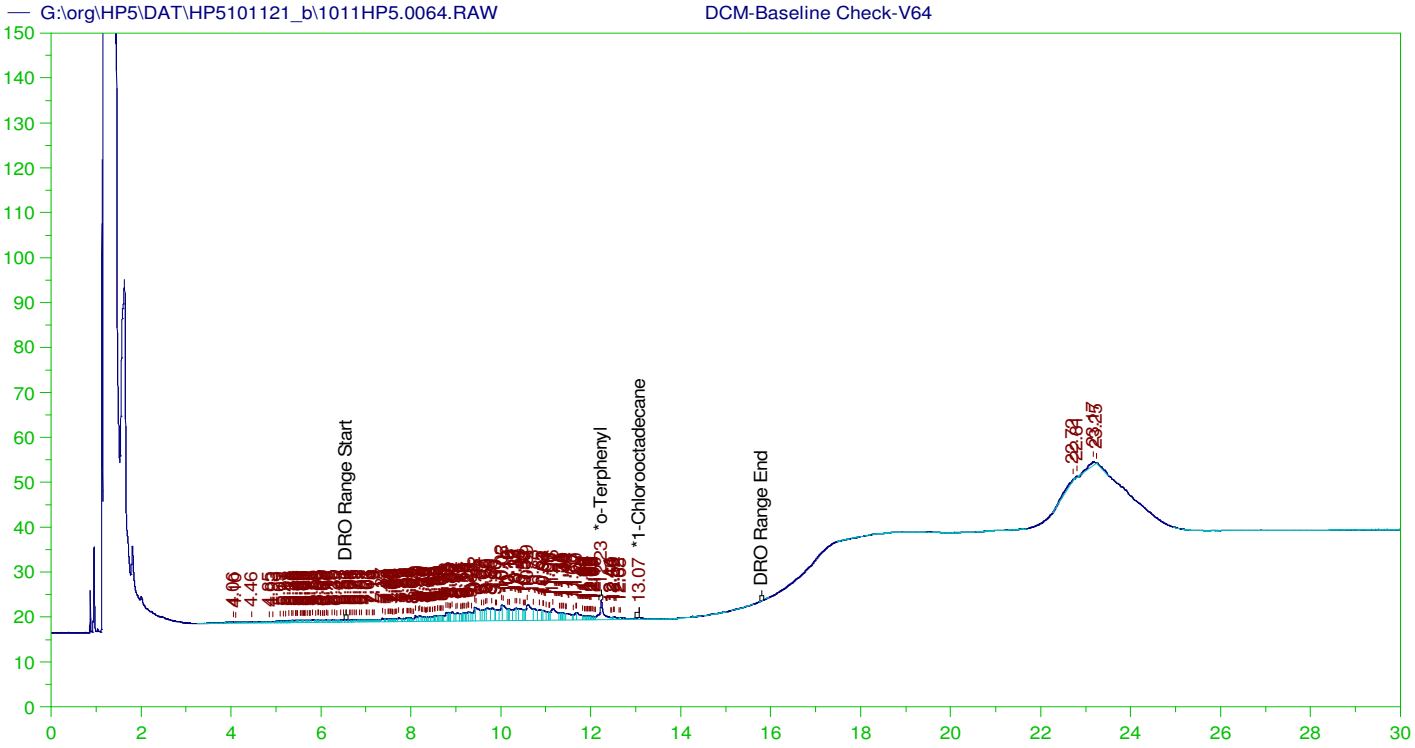
Sample Name: DCM-Baseline Check-V63
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0063.RAW
Date & Time Acquired: 10/13/2021 7:21:30 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | 200. | .541 | .27 | - |
| *1-Chlorooctadecane | 13.044 | 200. | .092 | .05 | - |

DRO Area:461835.7 DRO Amount: 15.67812
TEH Area:700402.4 TEH Amount: 23.77685

G:\org\HP5\dat\HP5101121_b\Review\063_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V64
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0064.RAW
Date & Time Acquired: 10/13/2021 8:04:19 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

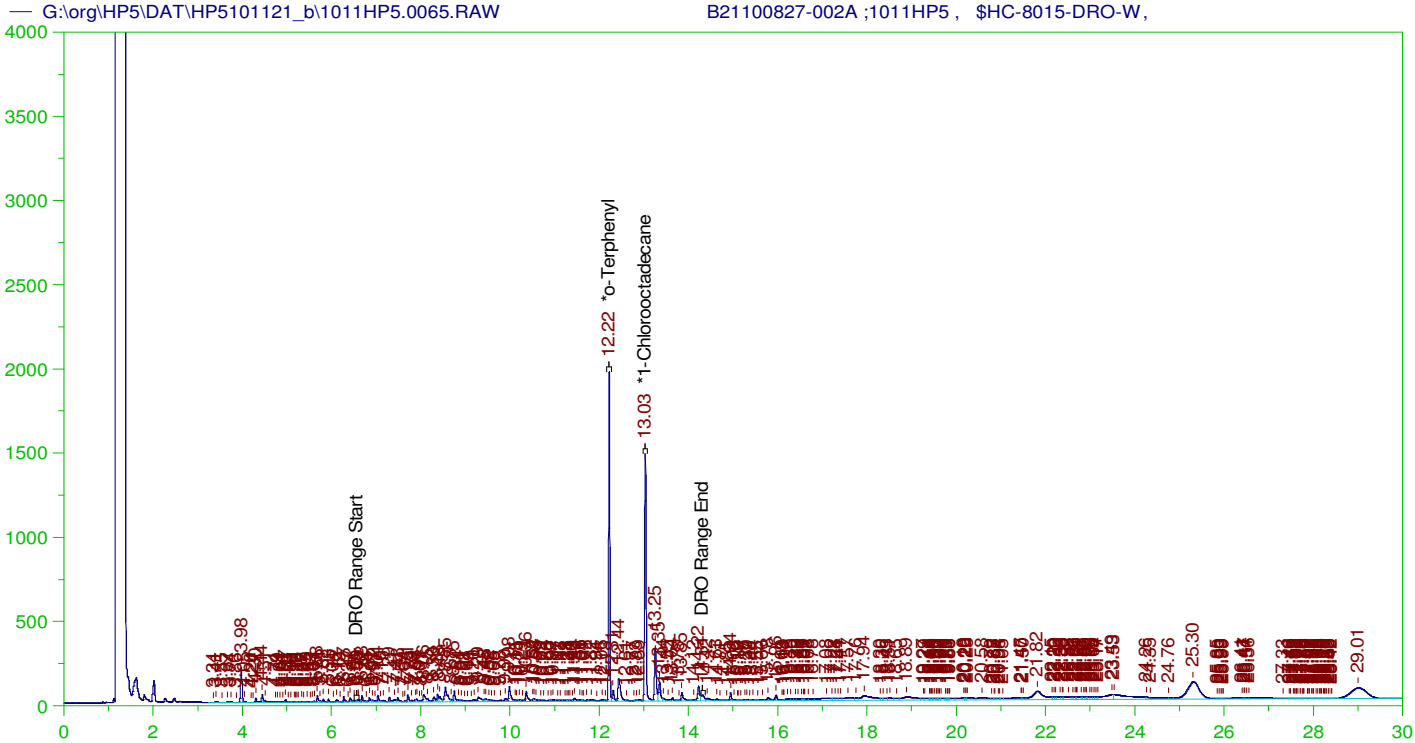
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | .767 | .38 | - |
| *1-Chlorooctadecane | 13.073 | 200. | .104 | .05 | - |

DRO Area:512970.4 DRO Amount: 17.41401
TEH Area:603912.3 TEH Amount: 20.50126

G:\org\HP5\dat\HP5101121_b\Review\064_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1772 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW B21100827-002A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .103 | 54.07 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .089 | 46.74 | - |

DRO Area:7121018 DRO Amount: 0.2302286
TEH Area:2.098284E+07 TEH Amount: 0.6783934

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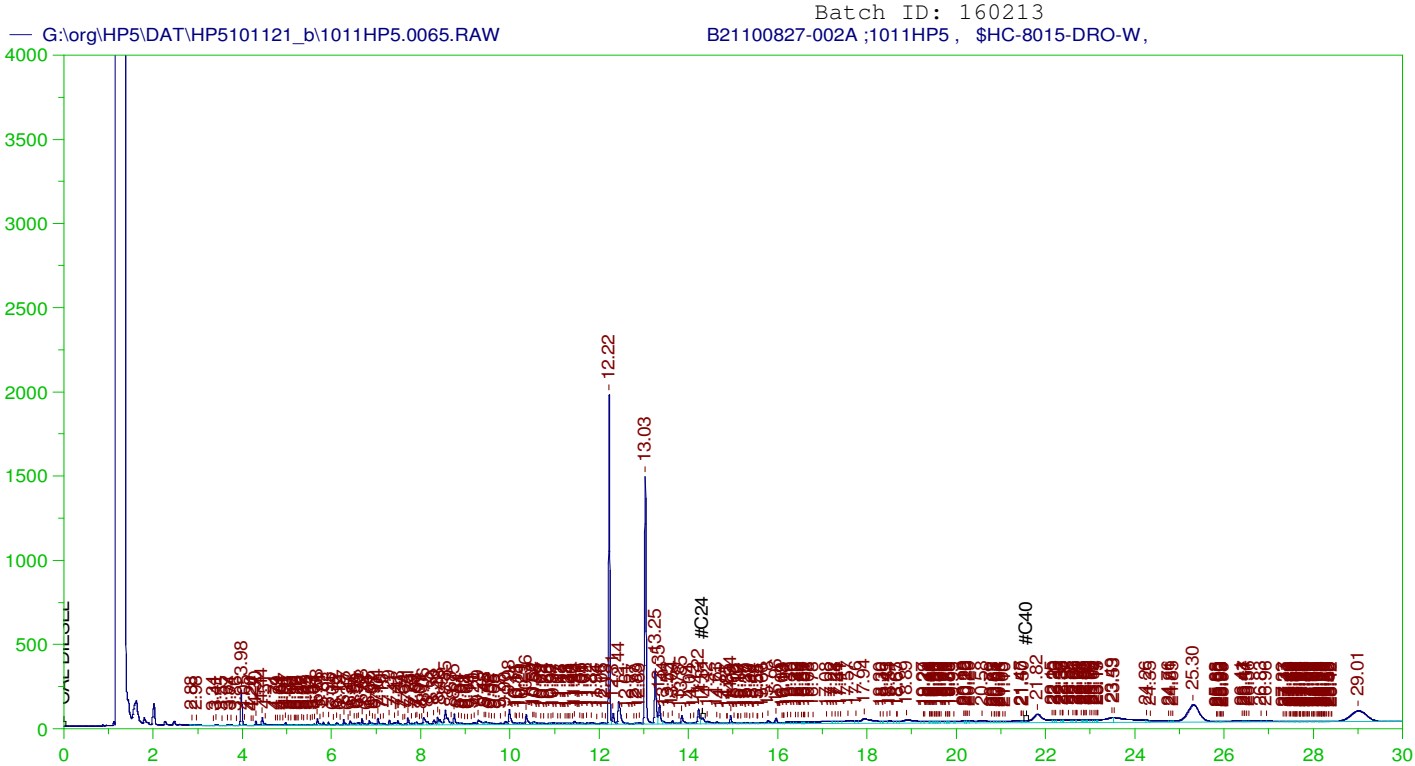
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

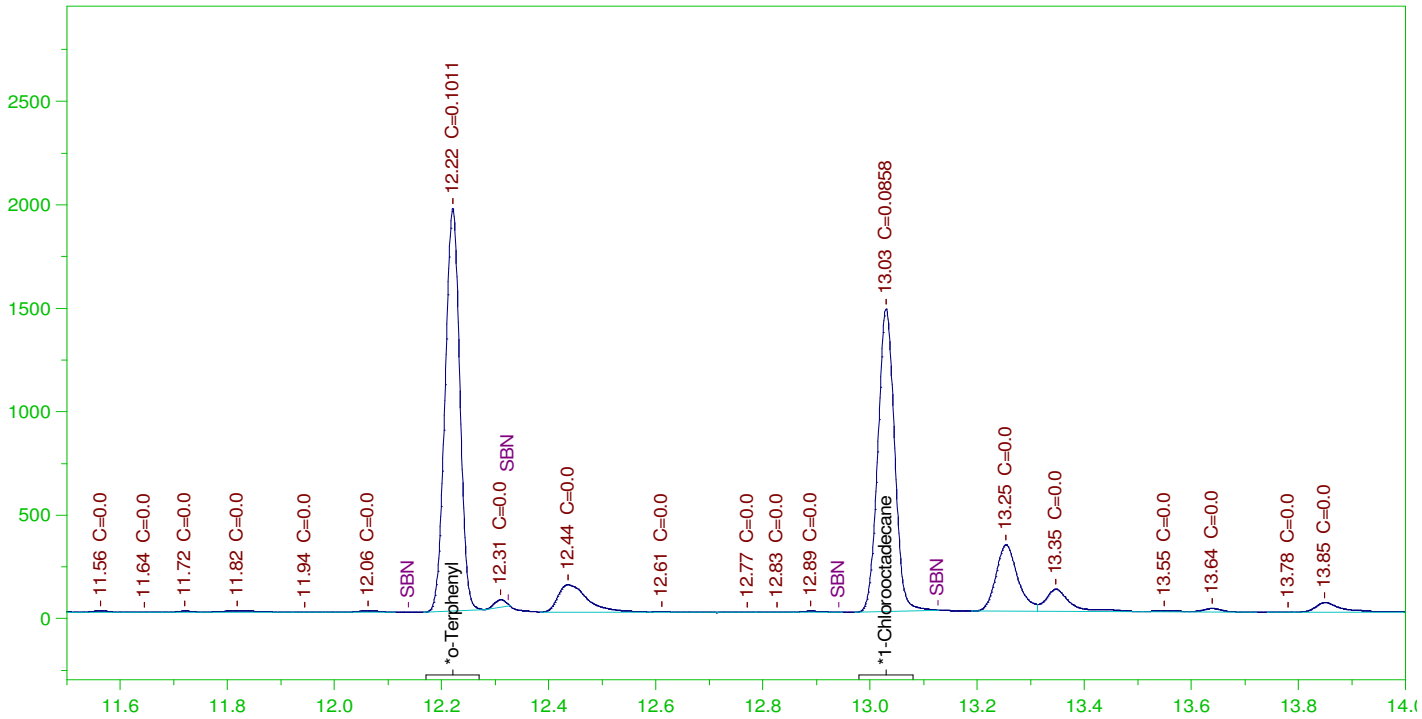
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:4919291 RRO AMOUNT: 0.1641431

**ERH1772 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW B21100827-002A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

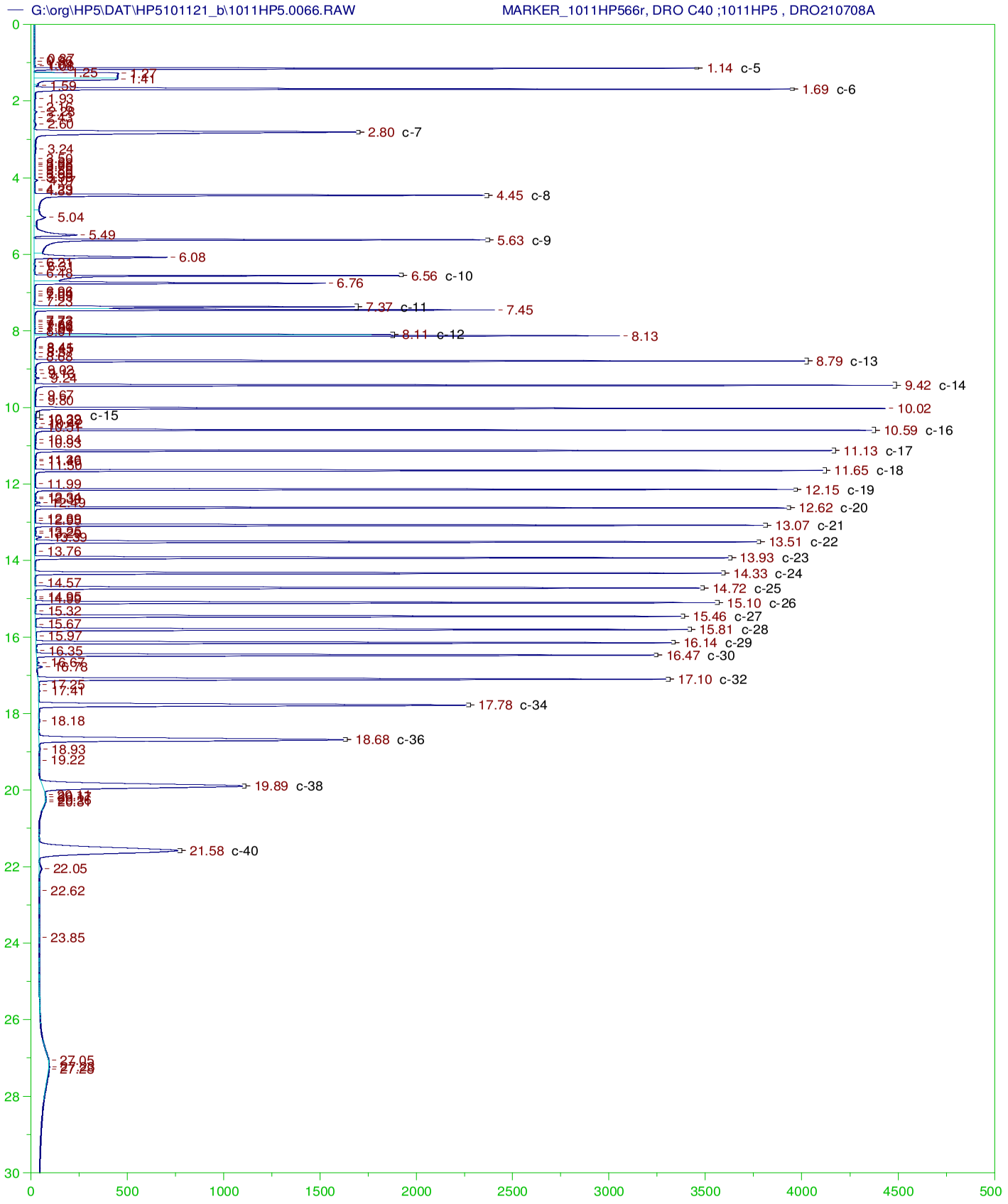
Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .101 | 53.07 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .086 | 45.07 | - |

DRO Area:6178081 DRO Amount: 0.1997427
TEH Area:7603099 TEH Amount: 0.2458148

G:\org\HP5\dat\HP5101121_b\Review\065_B21100827-002A_DS_8015-HS-L#.xls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MARKER_1011HP566r, DRO C40 ;1011HP5 , DRO210708A
1.14 c-5
1.69 c-6
2.80 c-7
4.45 c-8
5.63 c-9
6.56 c-10
7.37 c-11
8.11 c-12
8.79 c-13
9.42 c-14
10.02
10.59 c-16
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.10 c-26
15.46 c-27
15.81 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
19.89 c-38
21.58 c-40
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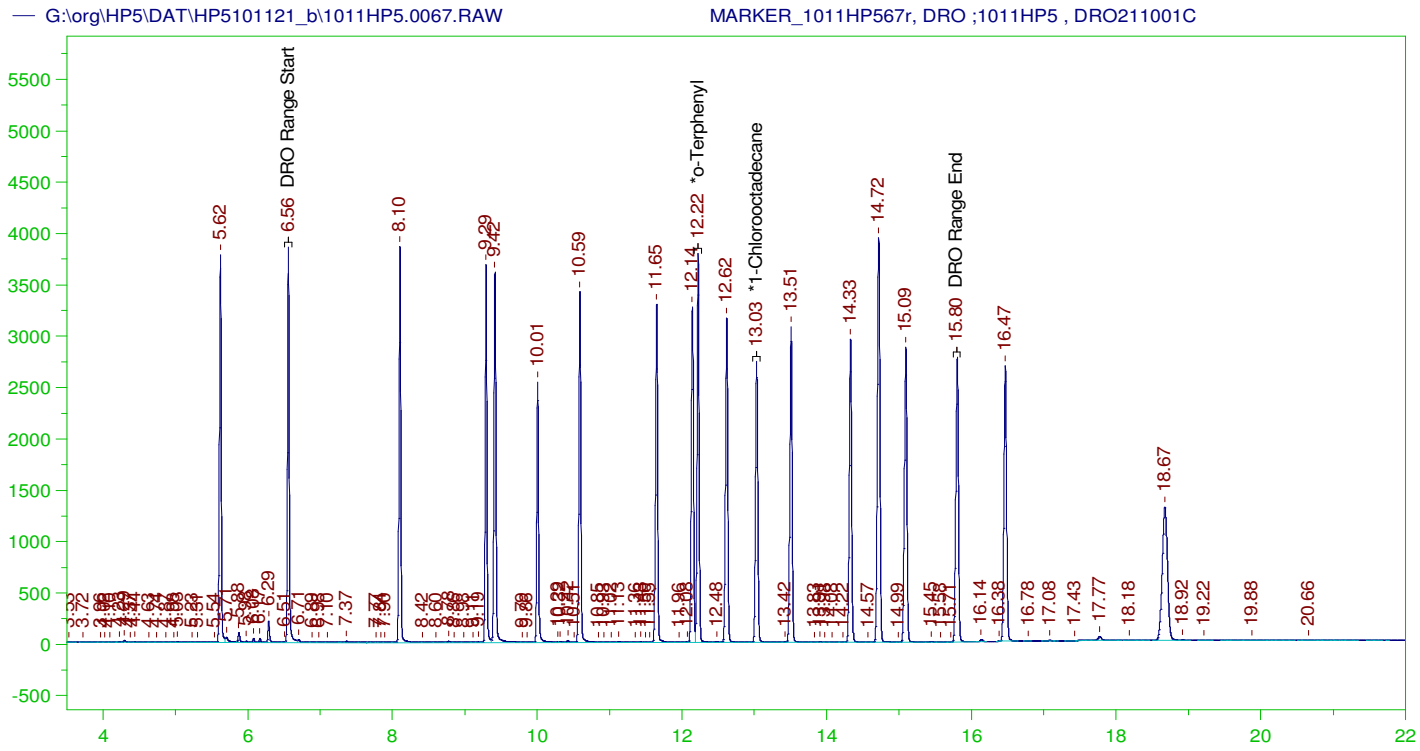



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

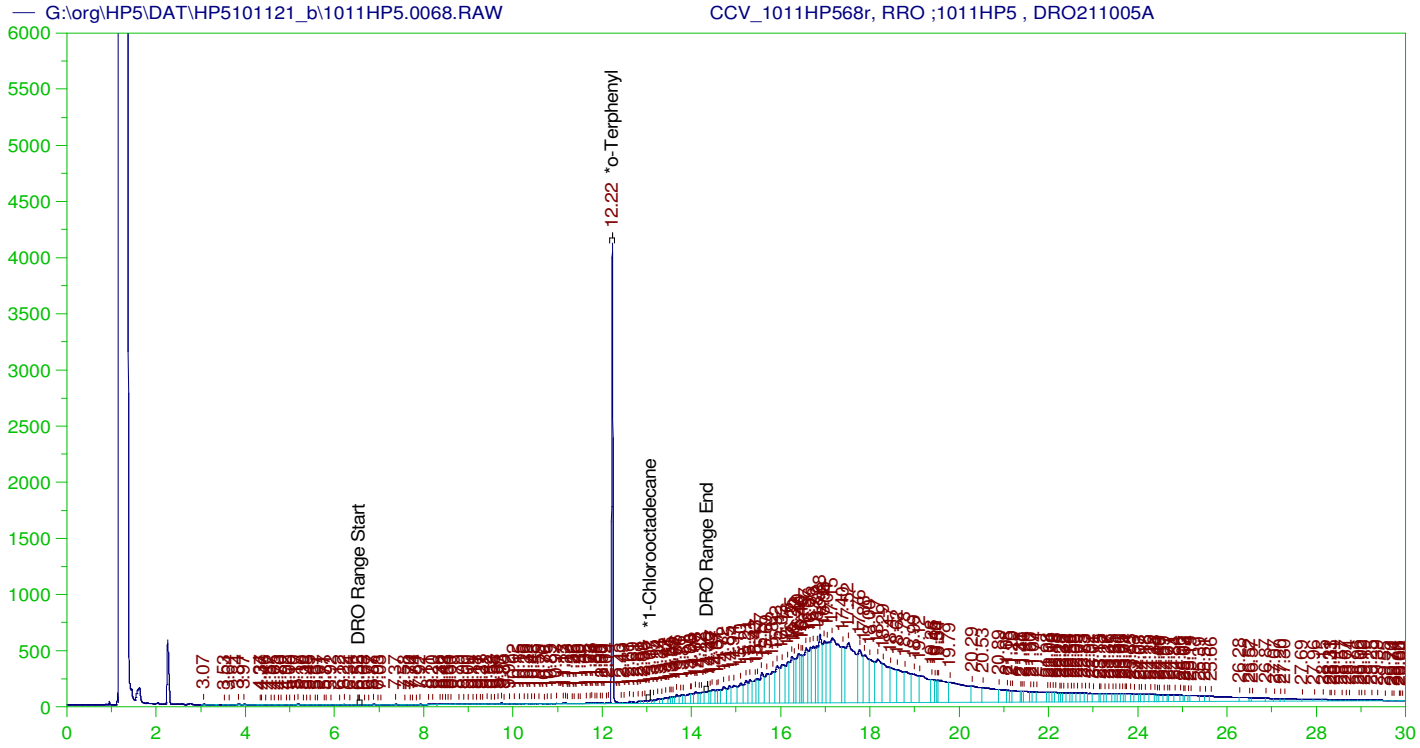
Sample Name: MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0067.RAW
Date & Time Acquired: 10/13/2021 10:13:13 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | 200. | 207.103 | 103.55 | - |
| *1-Chlorooctadecane | 13.032 | 200. | 167.24 | 83.62 | - |

DRO Area:9.46077E+07 DRO Amount: 3211.686
TEH Area:1.157155E+08 TEH Amount: 3928.242

G:\org\HP5\dat\HP5101121_b\Review\067_MARKER_1011HP567r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP568r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW
Date & Time Acquired: 10/13/2021 10:55:59 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 228.139 | 114.07 | - |
| *1-Chlorooctadecane | 13.068 | 200. | 4.318 | 2.16 | - |

DRO Area:6687357 DRO Amount: 234.2955
TEH (Oil Range) Area:1.440007E+08 TEH (Oil Range) Amount: 5045.149

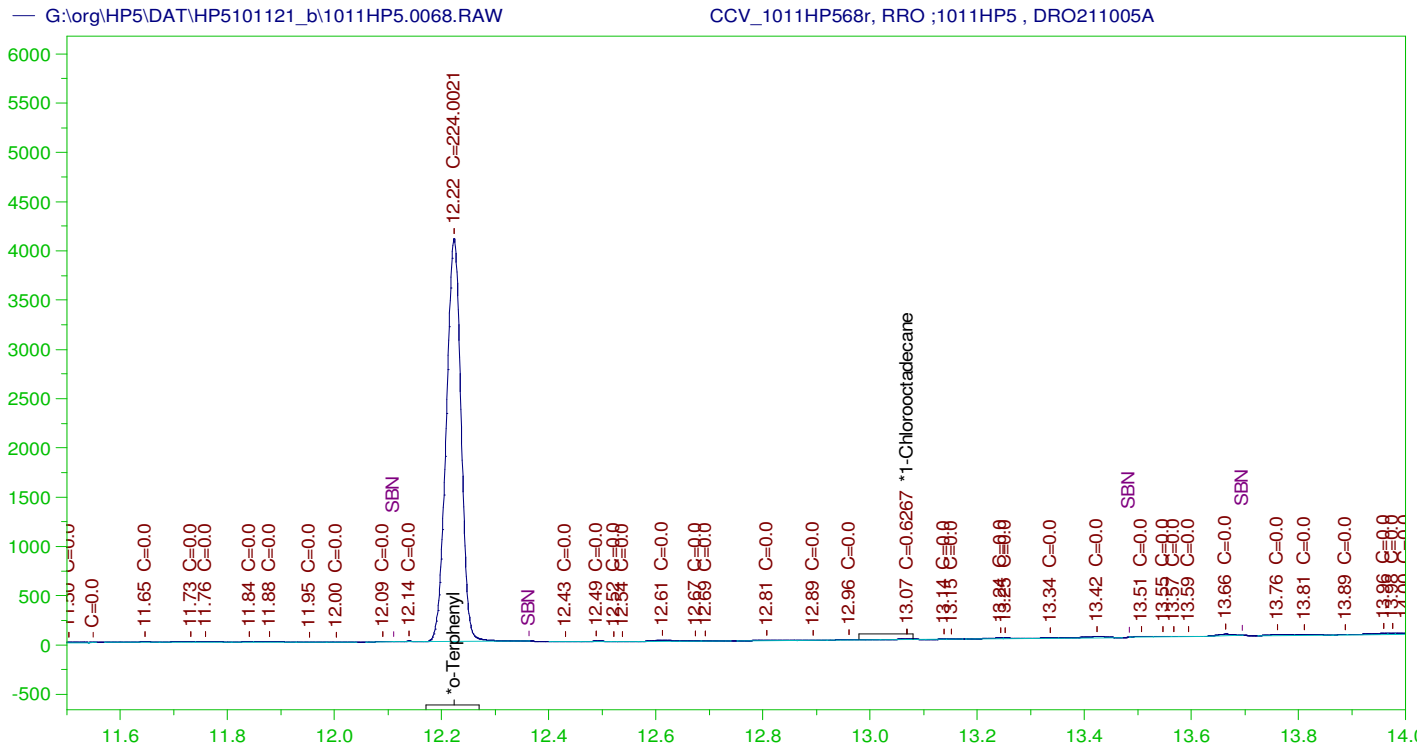
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5045.15 | 100.9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 228.139 | 114.07 | 85-115 |
| *1-Chlorooctadecane | 13.068 | 200. | 4.318 | 2.16 | 85-115 |

AMN 10/20/2021

G:\org\HP5\dat\HP5101121_b\Review\068_CCV_1011HP568r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP568r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW
Date & Time Acquired: 10/13/2021 10:55:59 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 224.002 | 112. | - |
| *1-Chlorooctadecane | 13.068 | 200. | .627 | .31 | - |

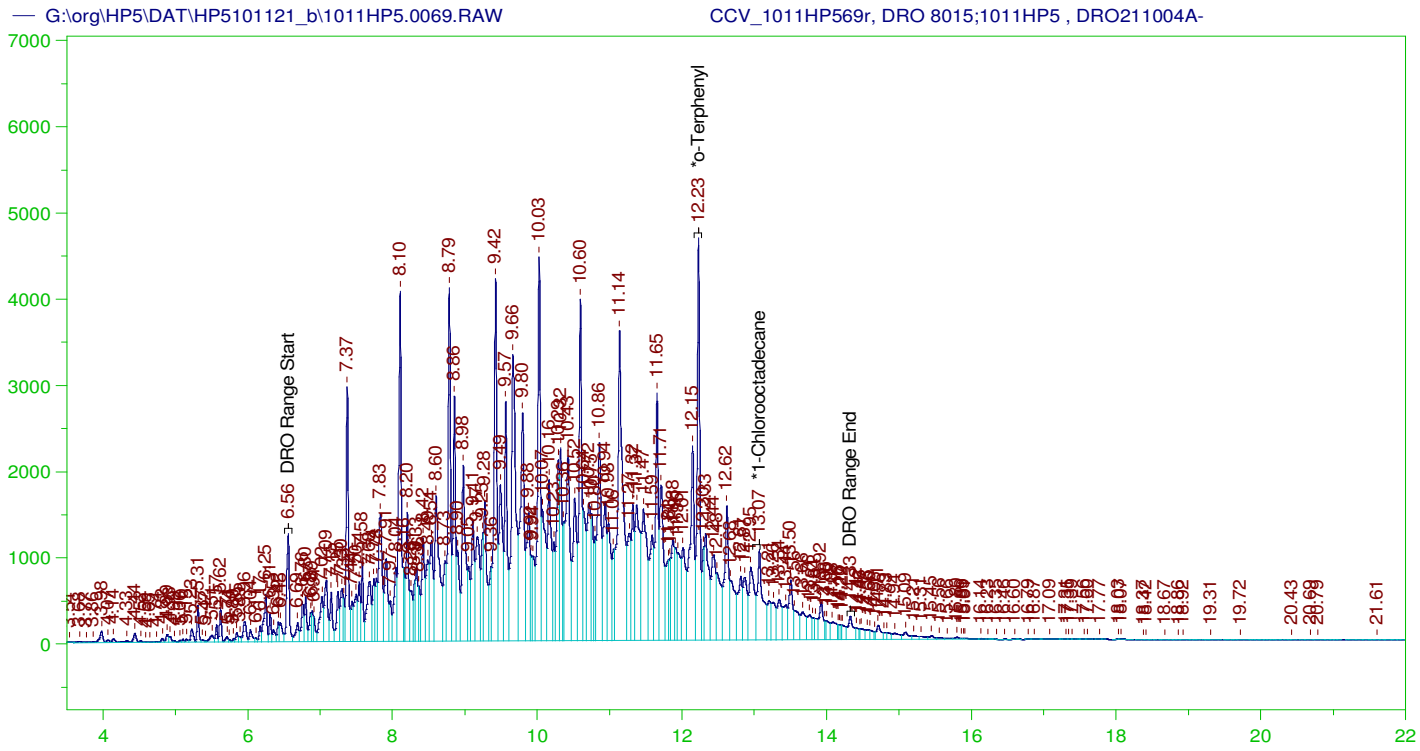
DRO Area:934243.1 DRO Amount: 32.73175
TEH Area:2139755 TEH Amount: 74.96756

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 74.97 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 224.002 | 112. | 85-115 |
| *1-Chlorooctadecane | 13.068 | 200. | .627 | .31 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\068_CCV_1011HP568r_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW
Date & Time Acquired: 10/13/2021 11:38:56 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 334.947 | 167.47 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 152.18 | 76.09 | - |

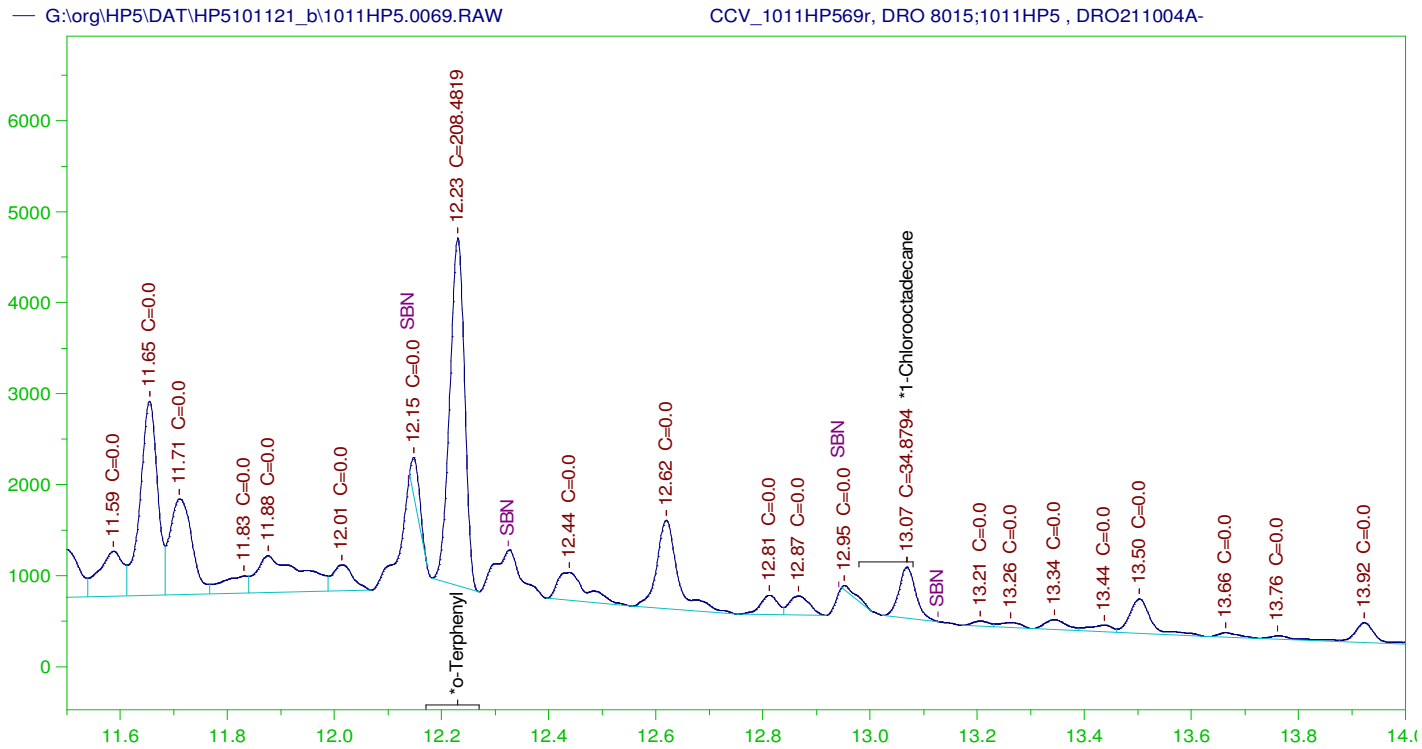
DRO Area:4.39895E+08 DRO Amount: 14933.29
TEH Area:4.556282E+08 TEH Amount: 15467.4

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15467.4 | 103.12 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 334.947 | 167.47 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 152.18 | 76.09 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\069_CCV_1011HP569r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW
Date & Time Acquired: 10/13/2021 11:38:56 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 208.482 | 104.24 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 34.879 | 17.44 | - |

DRO Area:2.439914E+08 DRO Amount: 8282.876
TEH Area:2.533526E+08 TEH Amount: 8600.662

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8600.66 | 57.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 208.482 | 104.24 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 34.879 | 17.44 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\069_CCV_1011HP569r_DS_8015-HS-L#.xls

Write Sequence | Insert Entries(Have the first cell for entries selectec

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | **Manual Integrations** |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.56r | DCM-Baseline Check-V56 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.57r | DCM-Baseline Check-V57 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.58r | LCS-160213 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split at 13.06.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.59r | MB-160213 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.60r | B21100824-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.61r | DCM-Baseline Check-V61 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.62r | B21100827-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1045 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak Width Adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.64r | DCM-Baseline Check-V64 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.65r | B21100827-002A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak Width Adjusted and scale set 4000.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.66r | MARKER_1011HP566r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.67r | MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.68r | CCV_1011HP568r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.69r | CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.21 08:39:06 -06:00

# ANALYTICAL SUMMARY REPORT

November 02, 2021

AECOM - Honolulu
1001 Bishop Street, Suite 1600
Honolulu HI, 96813-3698

Work Order: B21100827 Quote ID: 5912

Project Name: CV18F0126/60571032.02.20.01

Energy Laboratories Inc Billings MT received the following 3 samples from AECOM - Honolulu on 10/11/2021 for analysis.

| Lab ID | Client Sample ID | Collect Date | Received Date | Matrix | Test |
|---|---|---|---|---|---|
| B21100827-001 | ERH1767 (RHMW12A) | 10/04/21 14:52 | 10/11/2021 | Ground Water | DRO-Liquid-Liquid Extraction SW3520C<br>Diesel Range Organics SW8015C |
| B21100827-002 | ERH1772 (RHMW12A) | 10/04/21 14:52 | 10/11/2021 | Ground Water | Same As Above |
| B21100827-003 | ERH1779 (Prechlorination) | 10/04/21 12:30 | 10/11/2021 | Drinking Water | Same As Above |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

**CLIENT:** AECOM - Honolulu
**Project:** CV18F0126/60571032.02.20.01
**Work Order:** B21100827

**Report Date:** 11/2/2021

# CASE NARRATIVE

General Comments:

For any question please contact your Project Manager at (406) 252-6325 or billingspm@energylab.com.

All analyses have been performed in accordance with DOD QSM Version 5.3 unless otherwise noted below. The specific methodologies used in obtaining the enclosed analytical results are indicated on the Analytical Summary Report and the Laboratory Analytical Report. The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted in the Work Order Receipt Checklist.

The tests listed below are accredited and meet the requirements of DoD QSM Version 5.3 as verified by ANSI-ASQ National Accreditation Board (ANAB) certificate number ADE-2588. Exceptions to this require client authorization and records documenting this approval are attached in the Sample Management Records. Accreditation may not be offered or required for all methods and analytes reported in this package. Refer to the certificate and scope of accreditation located at https://www.energylab.com/whyus/certifications-quality-control/ or contact your project manager.

Project specific matrix quality control samples may not be reported if site specific samples were not submitted. Matrix quality control samples were performed on project samples where adequate volume was available. All quality control measures met criteria unless otherwise noted in the Analytical QC Exceptions report and in the Analysis Specific Comments below.  Where available, sample management records are attached.

The Level IV Validation Package includes data reports for all analyses associated with the instrument calibration, quality control (QC) sample analysis, and sample analysis. All analytical data is within method specifications except as noted in the Analytical QC Exceptions report or the Analysis Specific Comments below. The analytical report identifies preparation batch and analytical run IDs associated with each result for a sample. Only the raw data associated with the parameters listed on this report should be validated.

Analysis Specific Comments:

An Analytical QC Exceptions Report has been attached, summarizing all qualified QC results.  All quality control measures met criteria; therefore there were no analytical QC exceptions on this report.

ENERGY LABORATORIES
Trust our People. Trust our Data

# Chain of Custody & Analytical Request Record 202110-06

DoD Samples

www.energylab.com

COC# NOI

Page 1 of 1

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (If different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |
| Special Report/Formats | ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____ |

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 3-weeks.
4. Note "non-PO" on invoice.

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name DM, GD, CF | Sampler Phone 310-625-1283 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1767 (RHMW12A) | 10/04/2021 | 10:52 am | 2 | W | ✔ | ✔ | | | | | | | | | X | B21100827 |
| 2 | ERH1772 (RHMW12A) | 10/04/2021 | 10:52 am | 2 | W | ✔ | ✔ | | | | | | | | | X | |
| 3 | ERH1779 (pre-chlorination RHSF) | 10/04/2021 | 8:30 am | 2 | W | ✔ | ✔ | | | | | | | | | X | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

TN 10/4/21

**ELI is REQUIRED to provide preservative traceability** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/4/2021 15:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | | 10/11/21 9:00 | |

**LABORATORY USE ONLY**

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | On Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | °C | Y N | Y N | CC Cash Check_____ | $ | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

# Work Order Receipt Checklist

## AECOM - Honolulu

## B21100827

| | | | |
|---|---|---|---|
| Login completed by: | Taylor K. Burris | Date Received: | 10/11/2021 |
| Reviewed by: | BL2000\darcy | Received by: | srg |
| Reviewed Date: | 10/15/2021 | Carrier name: | FedEx |

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all sample bottles? | Yes ☑ | No ☐ | Not Present ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes ☑ | No ☐ | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Applicable ☐ |
| Container/Temp Blank temperature: | 18.0°C Melted Ice | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | Not Applicable ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | Not Applicable ☐ |

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### Contact and Corrective Action Comments:

The samples were received outside of temperature compliance. Proceed with analysis per Shari Endy, Energy Laboratories Project Manager.

The collection time indicated on the Chain of Custody for all samples is in Hawaii-Aleutian Standard Time. The collection time has been converted (+4 Hours) to Mountain Daylight Time.

All samples were received in client provided containers using client provided preservative. Energy Laboratories sample preservation traceability is not available.

The matrix for samples ERH1767 (RHMW12A) and ERH1772 (RHMW12A) has been changed from Drinking Water to Ground Water per email received by Shari Endy, Energy Laboratories Project Manager from Alethea Ramos on 10/26/21.

# Qualifiers and Abbreviations

| Qualifier | Qualifier Description |
|---|---|
| ## | Limit of Quantitation (LOQ) for this analyte exceeds the Maximum Contaminant Level (MCL) |
| * | Result exceeds the Maximum Contaminant Level (MCL) |
| A | The analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated |
| B | Analyte detected in the method blank |
| C | Continuing calibration verification was outside of the quality control advisory limits |
| D | Limit of Quantitation (LOQ) increased due to sample matrix |
| E | Estimated value - result exceeds the instrument upper quantitation limit |
| H | Analysis performed past the method holding time |
| J | The reported result is an estimated value |
| L | Lowest Limit of Quantitation (LOQ) available for the analytical method used |
| N | Analyte concentration was not sufficiently high to calculate a Relative Percent Difference (RPD) for the serial dilution test |
| O | Diluted out |
| P | Poor method performance - method validations have shown no recoveries at low concentrations or method performance was erratic |
| Q | Values reported below the Limit of Quantitation (LOQ) are statistically invalid |
| R | Relative Percent Difference (RPD) exceeds advisory limit |
| S | Spike recovery outside of advisory limits |
| T | Analyte detected in the associated trip blank |
| U | Not detected at the Limit of Detection (LOD) |
| V | The RPD value for this duplicate represents the RER value and the RPDLimit of 2 is the RER upper limit. |

# Qualifiers and Abbreviations

## Abbreviation

| Reporting | Explanation of Abbreviation |
|---|---|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MCL | Maximum Contaminant Level |
| MDC | Minimum Detectable Concentration |
| ND | Not detected at the Limit of Quantitaton (LOQ) |
| RBSL | Risk-Based Screening Levels |
| REC | Recovery |
| RER | Relative Error Ratio |
| RPD | Relative Percent Difference |
| SPK | Spike |

| Sample Types | Explanation of Abbreviation |
|---|---|
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification Standard |
| DUP | Sample Duplicate |
| ICSA | Interference Check Sample A |
| ICSAB | Interference Check Sample AB |
| ICV | Initial Calibration Verification Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LFB | Laboratory Fortified Blank |
| LRB | Laboratory Reagent Blank |
| MBLK | Method Blank |
| MS | Sample Matrix Spike |
| MSD | Sample Matrix Spike Duplicate |
| PDS | Post Digestion/Distillation Spike |
| QCS | Quality Control Sample |
| SD | Serial Dilution |
| SRM | Standard Reference Material |

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1767 (RHMW12A)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100827-001
**Collection Date:** 10/04/2021 14:52
**Date Received:** 10/11/2021
**Report Date:** 11/02/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.22 | mg/L | 1 | J | 0.30 | 0.14 | 0.037 | | SW8015C | 10/13/2021 06:38/amn | GCFID-HP5-B_211011B : 7 | 160213 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.11 | 0.037 | | SW8015C | 10/14/2021 22:15/amn | GCFID-HP5-B_211013C : 7 | 160213 |
| Oil Range Hydrocarbons (C24 to C40) | 0.17 | mg/L | 1 | J | 0.30 | 0.14 | 0.084 | | SW8015C | 10/13/2021 06:38/amn | GCFID-HP5-B_211011B : 7 | 160213 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.084 | | SW8015C | 10/14/2021 22:15/amn | GCFID-HP5-B_211013C : 7 | 160213 |
| Total Extractable Hydrocarbons | 0.67 | mg/L | 1 | | 0.30 | 0.14 | 0.072 | | SW8015C | 10/13/2021 06:38/amn | GCFID-HP5-B_211011B : 7 | 160213 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.11 | 0.031 | | SW8015C | 10/14/2021 22:15/amn | GCFID-HP5-B_211013C : 7 | 160213 |
| Surr: o-Terphenyl | 72.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/13/2021 06:38/amn | GCFID-HP5-B_211011B : 7 | 160213 |
| Surr: o-Terphenyl (SGT) | 70.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/14/2021 22:15/amn | GCFID-HP5-B_211013C : 7 | 160213 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1772 (RHMW12A)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100827-002
**Collection Date:** 10/04/2021 14:52
**Date Received:** 10/11/2021
**Report Date:** 11/02/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.23 | mg/L | 1 | J | 0.30 | 0.14 | 0.037 | | SW8015C | 10/13/2021 08:47/amn | GCFID-HP5-B_211011B : 8 | 160213 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.11 | 0.037 | | SW8015C | 10/14/2021 21:33/amn | GCFID-HP5-B_211013C : 6 | 160213 |
| Oil Range Hydrocarbons (C24 to C40) | 0.16 | mg/L | 1 | J | 0.30 | 0.14 | 0.084 | | SW8015C | 10/13/2021 08:47/amn | GCFID-HP5-B_211011B : 8 | 160213 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.084 | | SW8015C | 10/14/2021 21:33/amn | GCFID-HP5-B_211013C : 6 | 160213 |
| Total Extractable Hydrocarbons | 0.68 | mg/L | 1 | | 0.30 | 0.14 | 0.071 | | SW8015C | 10/13/2021 08:47/amn | GCFID-HP5-B_211011B : 8 | 160213 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.11 | 0.031 | | SW8015C | 10/14/2021 21:33/amn | GCFID-HP5-B_211013C : 6 | 160213 |
| Surr: o-Terphenyl | 53.0 | %REC | 1 | S | 56-125 | | | | SW8015C | 10/13/2021 08:47/amn | GCFID-HP5-B_211011B : 8 | 160213 |
| Surr: o-Terphenyl (SGT) | 45.0 | %REC | 1 | S | 56-125 | | | | SW8015C | 10/14/2021 21:33/amn | GCFID-HP5-B_211013C : 6 | 160213 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- S=Surrogate recovery outside QC advisory limits. The sample contained a layer of sediment that may have strongly adsorbed the surrogate and/or reduced extraction efficiency.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1779 (Prechlorination)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21100827-003
**Collection Date:** 10/04/2021 12:30
**Date Received:** 10/11/2021
**Report Date:** 11/02/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/13/2021 23:53/amn | GCFID-HP5-B_211013B : 9 | 160213 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.085 | | SW8015C | 10/13/2021 23:53/amn | GCFID-HP5-B_211013B : 9 | 160213 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.072 | | SW8015C | 10/13/2021 23:53/amn | GCFID-HP5-B_211013B : 9 | 160213 |
| Surr: o-Terphenyl | 100.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/13/2021 23:53/amn | GCFID-HP5-B_211013B : 9 | 160213 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100827
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211011B: 5 **SampType:** Method Blank **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/13/2021 04:29 **Prep Date:** 10/11/2021 11:55
**Lab ID:** MB-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 111.0 | 56 | 125 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013C: 5 **SampType:** Method Blank **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 20:50 **Prep Date:** 10/11/2021 11:55
**Lab ID:** MB-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons (SGT) | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl (SGT) | 0.20 | 0.0020 | 0.20 | | 102.0 | 56 | 125 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100827
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211011B: 4 **SampType:** Laboratory Control Sample **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/13/2021 03:47 **Prep Date:** 10/11/2021 11:55
**Lab ID:** LCS-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 102.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 110.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 105.0 | 56 | 125 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 13 **SampType:** Laboratory Control Sample **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 04:52 **Prep Date:** 10/11/2021 11:55
**Lab ID:** LCS-RRO-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 93.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 102.0 | 56 | 125 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013C: 4 **SampType:** Laboratory Control Sample **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 20:07 **Prep Date:** 10/11/2021 11:55
**Lab ID:** LCS-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 14 | 0.30 | 15 | | 92.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons (SGT) | 15 | 0.30 | 15 | | 98.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl (SGT) | 0.20 | 0.0020 | 0.20 | | 100.0 | 56 | 125 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100827
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211013C: 12 **SampType:** Laboratory Control Sample **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/15/2021 03:16 **Prep Date:** 10/11/2021 11:55
**Lab ID:** LCS-RRO-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 4.3 | 0.30 | 5.0 | | 85.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl (SGT) | 0.18 | 0.0020 | 0.20 | | 92.0 | 56 | 125 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 14 **SampType:** Sample Matrix Spike **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 06:18 **Prep Date:** 10/11/2021 11:56
**Lab ID:** B21100827-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.4 | 0.58 | 9.7 | 0.44 | 92.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.26 | 0.0039 | 0.39 | 0.0 | 68.0 | 56 | 125 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 15 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 07:43 **Prep Date:** 10/11/2021 11:56
**Lab ID:** B21100827-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.4 | 0.58 | 9.7 | 0.44 | 93.0 | 41 | 113 | 9.4 | 0.9 | 20.0 | |
| Surr: o-Terphenyl | 0.24 | 0.0039 | 0.39 | 0.0 | 61.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100827
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211013B: 16 **SampType:** Sample Matrix Spike **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 09:08 **Prep Date:** 10/11/2021 11:55
**Lab ID:** B21100827-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.60 | 30 | 0.22 | 102.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 33 | 0.60 | 30 | 0.67 | 108.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.42 | 0.0040 | 0.40 | 0.0 | 104.0 | 56 | 125 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 17 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 10:34 **Prep Date:** 10/11/2021 11:55
**Lab ID:** B21100827-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.60 | 30 | 0.22 | 103.0 | 36 | 132 | 31 | 0.4 | 20.0 | |
| Total Extractable Hydrocarbons | 34 | 0.60 | 30 | 0.67 | 110.0 | 60 | 132 | 33 | 2.0 | 20.0 | |
| Surr: o-Terphenyl | 0.36 | 0.0040 | 0.40 | 0.0 | 89.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013C: 8 **SampType:** Sample Matrix Spike **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 22:58 **Prep Date:** 10/11/2021 11:55
**Lab ID:** B21100827-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 26 | 0.60 | 30 | 0.0 | 88.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons (SGT) | 28 | 0.60 | 30 | 0.0 | 93.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl (SGT) | 0.37 | 0.0040 | 0.40 | 0.0 | 92.0 | 56 | 125 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100827
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211013C: 9 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 23:41 **Prep Date:** 10/11/2021 11:55
**Lab ID:** B21100827-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 27 | 0.60 | 30 | 0.0 | 89.0 | 36 | 132 | 26 | 0.7 | 20.0 | |
| Total Extractable Hydrocarbons (SGT) | 28 | 0.60 | 30 | 0.0 | 94.0 | 60 | 132 | 28 | 0.8 | 20.0 | |
| Surr: o-Terphenyl (SGT) | 0.32 | 0.0040 | 0.40 | 0.0 | 81.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013C: 10 **SampType:** Sample Matrix Spike **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/15/2021 00:24 **Prep Date:** 10/11/2021 11:56
**Lab ID:** B21100827-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 8.7 | 0.58 | 9.7 | 0.0 | 90.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl (SGT) | 0.25 | 0.0039 | 0.39 | 0.0 | 65.0 | 56 | 125 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013C: 16 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/15/2021 07:39 **Prep Date:** 10/11/2021 11:56
**Lab ID:** B21100827-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 8.1 | 0.58 | 9.7 | | 83.0 | 41 | 113 | 8.7 | 8.1 | 20.0 | |
| Surr: o-Terphenyl (SGT) | 0.25 | 0.0039 | 0.39 | | 64.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100827-001A, B21100827-002A, B21100827-003A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100827
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211011B: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368594
**Method:** SW8015C **Analysis Date:** 10/13/2021 00:55 **Prep Date:**
**Lab ID:** CCV_1011HP554r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.0 | 0.30 | 5.0 | | 100.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 113.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A**

**Run ID: Run Order:** GCFID-HP5-B_211011B: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368594
**Method:** SW8015C **Analysis Date:** 10/13/2021 01:38 **Prep Date:**
**Lab ID:** CCV_1011HP555r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 105.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 109.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 110.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A**

**Run ID: Run Order:** GCFID-HP5-B_211011B: 10 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368594
**Method:** SW8015C **Analysis Date:** 10/13/2021 10:55 **Prep Date:**
**Lab ID:** CCV_1011HP568r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.0 | 0.30 | 5.0 | | 101.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 112.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100827
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211011B: 11 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368594
**Method:** SW8015C **Analysis Date:** 10/13/2021 11:38 **Prep Date:**
**Lab ID:** CCV_1011HP569r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 100.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 103.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 104.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368674
**Method:** SW8015C **Analysis Date:** 10/13/2021 15:19 **Prep Date:**
**Lab ID:** CCV_1013HP503r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.9 | 0.30 | 5.0 | | 98.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 113.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368674
**Method:** SW8015C **Analysis Date:** 10/13/2021 16:02 **Prep Date:**
**Lab ID:** CCV_1013HP540r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 106.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 106.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 106.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-003A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100827
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211013B: 11 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368674
**Method:** SW8015C **Analysis Date:** 10/14/2021 02:44 **Prep Date:**
**Lab ID:** CCV_1013HP519r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 95.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 111.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 12 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368674
**Method:** SW8015C **Analysis Date:** 10/14/2021 03:27 **Prep Date:**
**Lab ID:** CCV_1013HP520r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 109.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 109.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 110.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013C: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368710
**Method:** SW8015C **Analysis Date:** 10/14/2021 17:58 **Prep Date:**
**Lab ID:** CCV_1013HP540r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 94.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 103.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100827
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211013C: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368710
**Method:** SW8015C **Analysis Date:** 10/14/2021 18:41 **Prep Date:**
**Lab ID:** CCV_1013HP541r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 98.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 102.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 102.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A**

**Run ID: Run Order:** GCFID-HP5-B_211013C: 14 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368710
**Method:** SW8015C **Analysis Date:** 10/15/2021 05:24 **Prep Date:**
**Lab ID:** CCV_1013HP556r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 94.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 104.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A**

**Run ID: Run Order:** GCFID-HP5-B_211013C: 15 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368710
**Method:** SW8015C **Analysis Date:** 10/15/2021 06:07 **Prep Date:**
**Lab ID:** CCV_1013HP557r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 99.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 103.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 103.0 | 80 | 120 | | | | |

Associated Samples: **B21100827-001A, B21100827-002A**

# Analytical QC Exceptions Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100827
**Project:** CV18F0126/60571032.02.20.01

**Report Date:** 11/02/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.

# Preparation and Analysis Dates Report

**Work Order:** B21100827
**Client:** AECOM - Honolulu
**Project Name:** CV18F0126/60571032.02.20.01
**Report Date:** 11/02/2021

| Lab ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Method | Prep Date | Prep Batch | Analysis Method | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | ERH1767 (RHMW12A) | 10/04/2021 14:52 | Ground Water | Diesel Range Organics | | SW3520C | 10/11/2021 11:55 | 160213 | SW8015C | 10/13/2021 06:38 |
| | | | | | | SW3520C | 10/11/2021 11:55 | 160213 | SW8015C | 10/14/2021 22:15 |
| 002A | ERH1772 (RHMW12A) | 10/04/2021 14:52 | Ground Water | Diesel Range Organics | | SW3520C | 10/11/2021 11:55 | 160213 | SW8015C | 10/13/2021 08:47 |
| | | | | | | SW3520C | 10/11/2021 11:55 | 160213 | SW8015C | 10/14/2021 21:33 |
| 003A | ERH1779 (Prechlorination) | 10/04/2021 12:30 | Drinking Water | Diesel Range Organics | | SW3520C | 10/11/2021 12:17 | 160213 | SW8015C | 10/13/2021 23:53 |

# Chemical Abstracts Service (CAS) Registry Numbers

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu

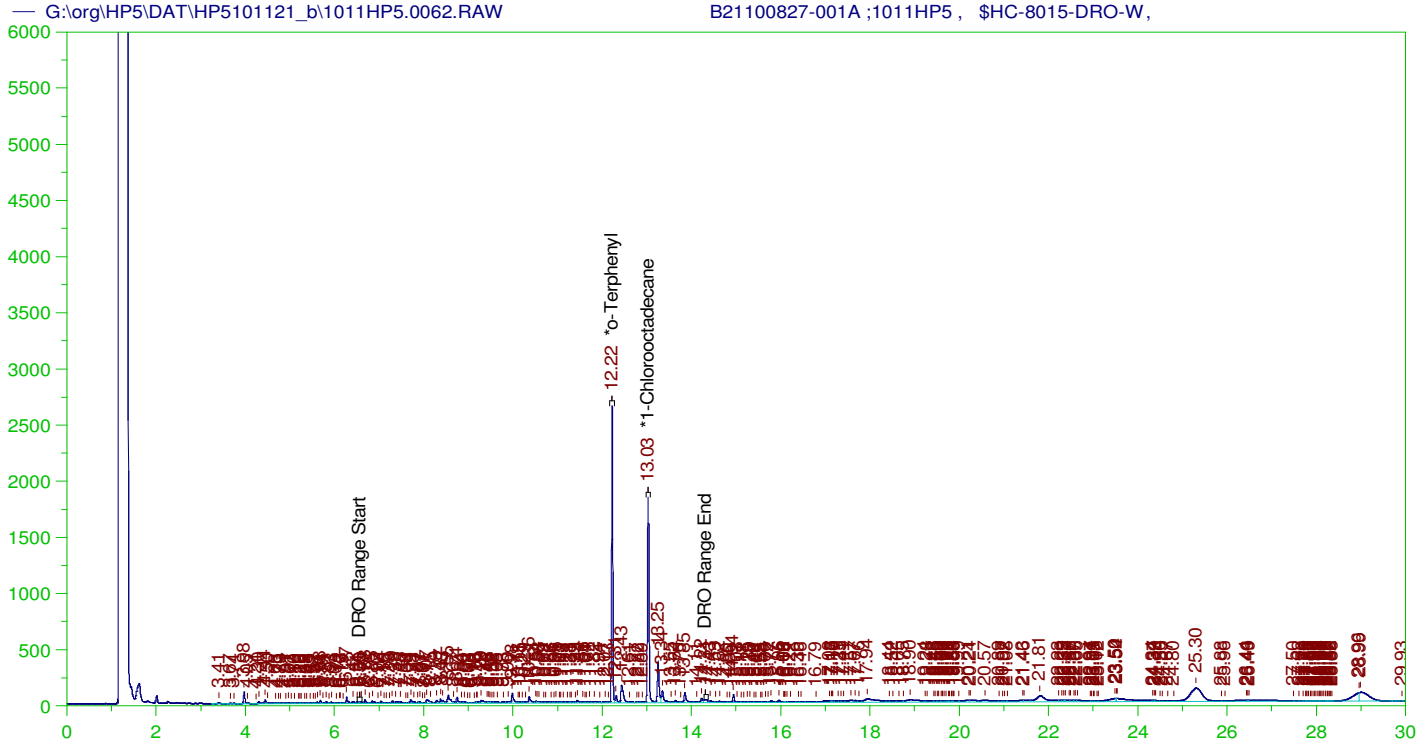
**Workorder:** B21100827

**Project:** CV18F0126/60571032.02.20.01 **Report Date:** 11/02/2021

| Analyses | CAS No |
|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | |
| Diesel Range Organics (C10 to C24) | |
| Diesel Range Organics (SGT-C10 to C24) | |
| Oil Range Hydrocarbons (C24 to C40) | |
| Oil Range Hydrocarbons (SGT-C24 to C40) | |
| Total Extractable Hydrocarbons | |
| Total Extractable Hydrocarbons (SGT) | |

**ERH1767 (RHMW12A)** Batch ID: 160213

G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW B21100827-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

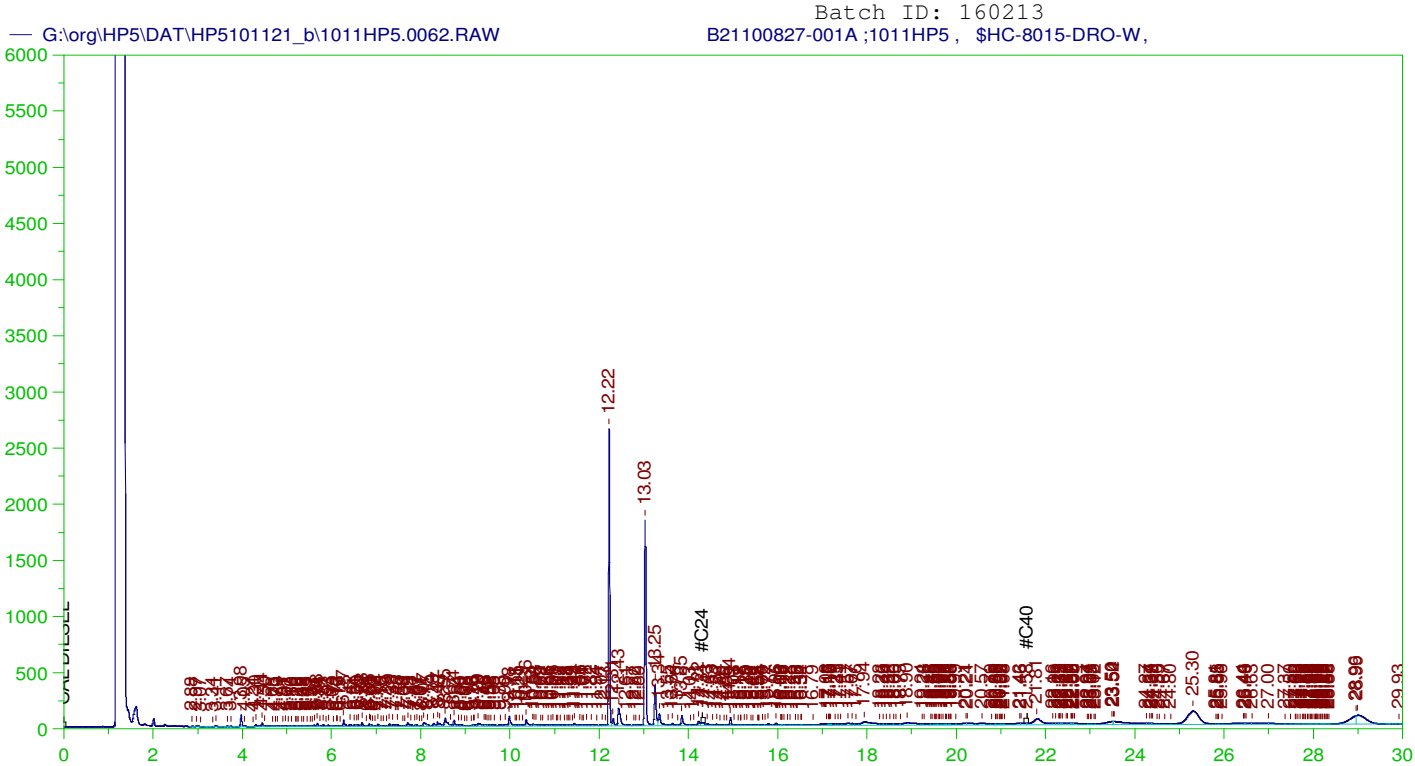
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.22 | .191 | .14 | 73.06 | - |
| *1-Chlorooctadecane | 13.028 | .191 | .111 | 58.04 | - |

DRO(C10-C24) Area:6923030 DRO(C10-C24) Amount: 0.2248985
TEH Area:2.070019E+07 TEH Amount: 0.6724572

AMN 10/14/2021

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

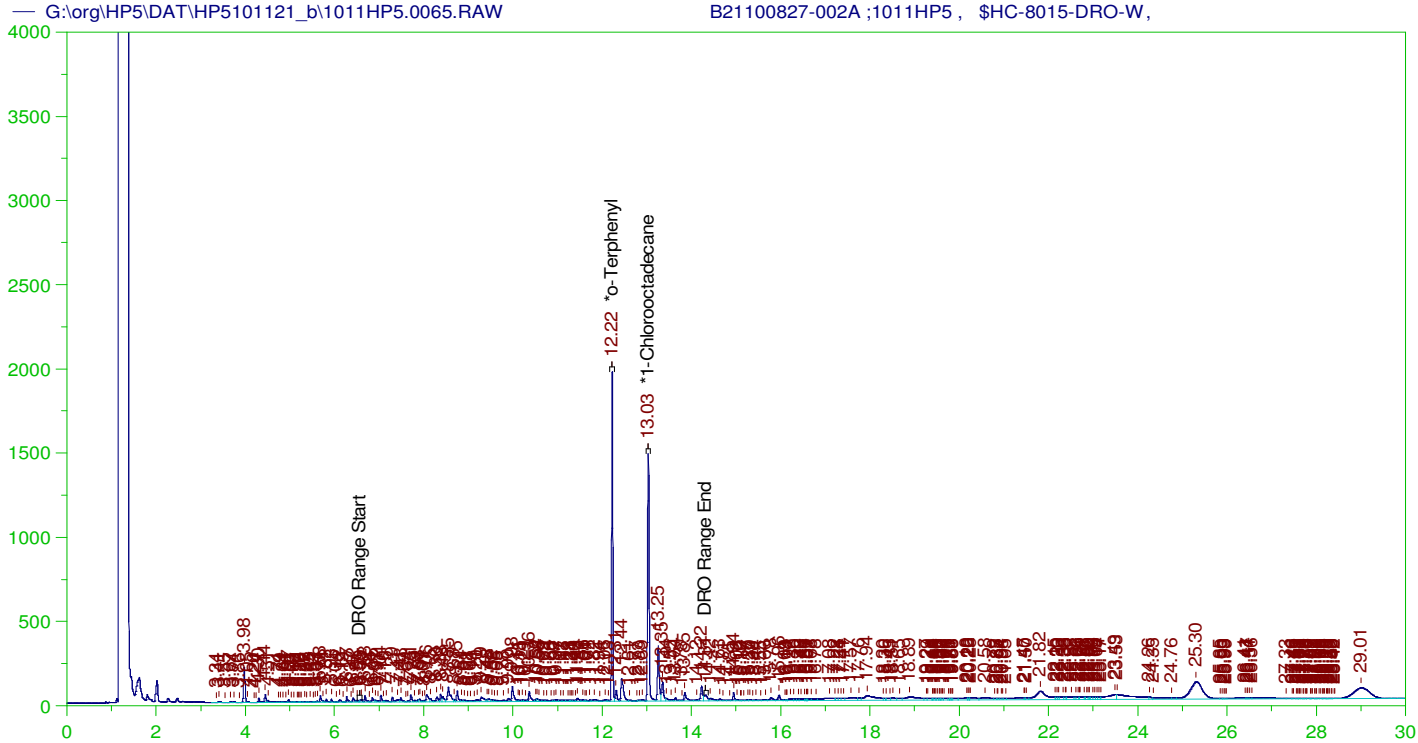
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40)Area:5083649 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 0.1704389

AMN 10/14/2021

**ERH1772 (RHMW12A)** Batch ID: 160213

G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW B21100827-002A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

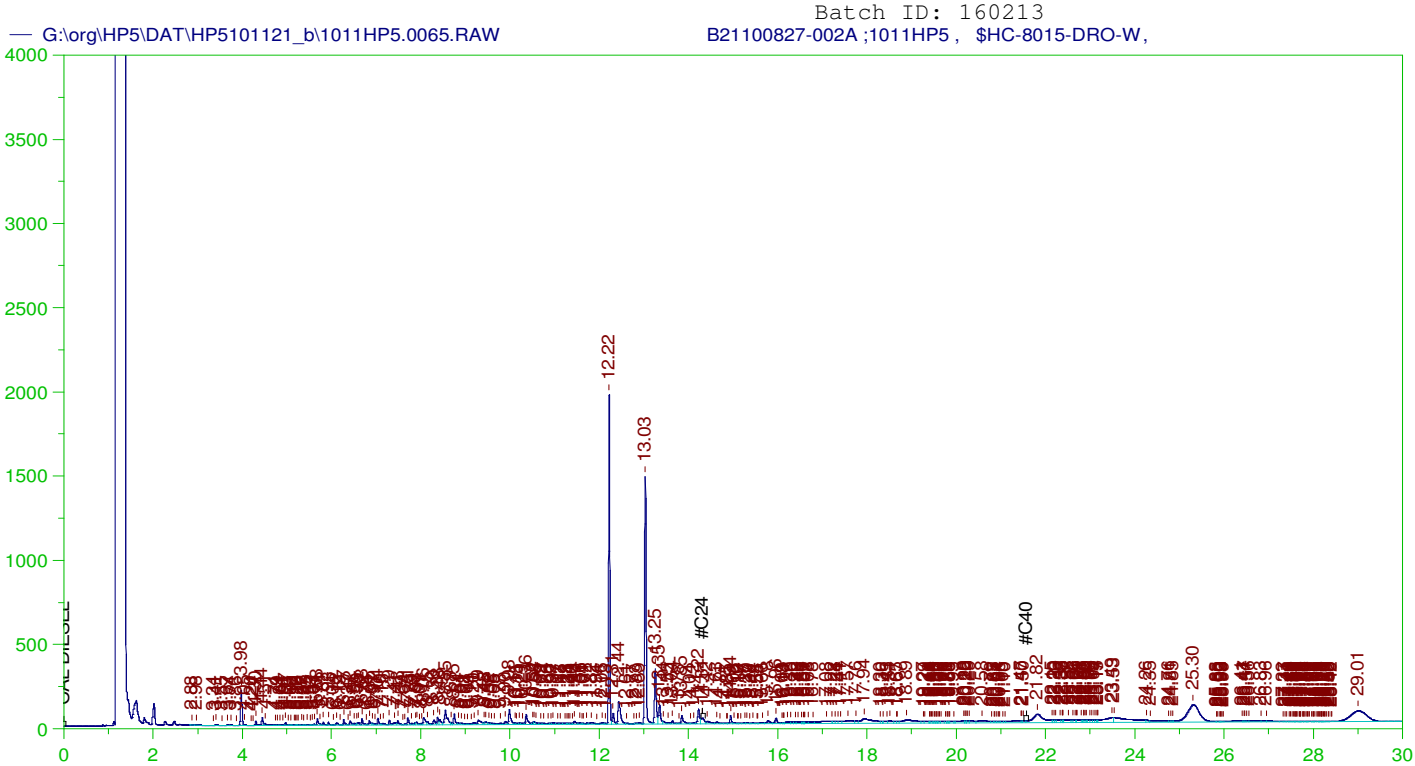
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .103 | 54.07 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .089 | 46.74 | - |

DRO (C10-C24)Area:7121018 DRO (C10-C24)Amount: 0.2302286
TEH Area:2.098284E+07 TEH Amount: 0.6783934

AMN 10/14/2021

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

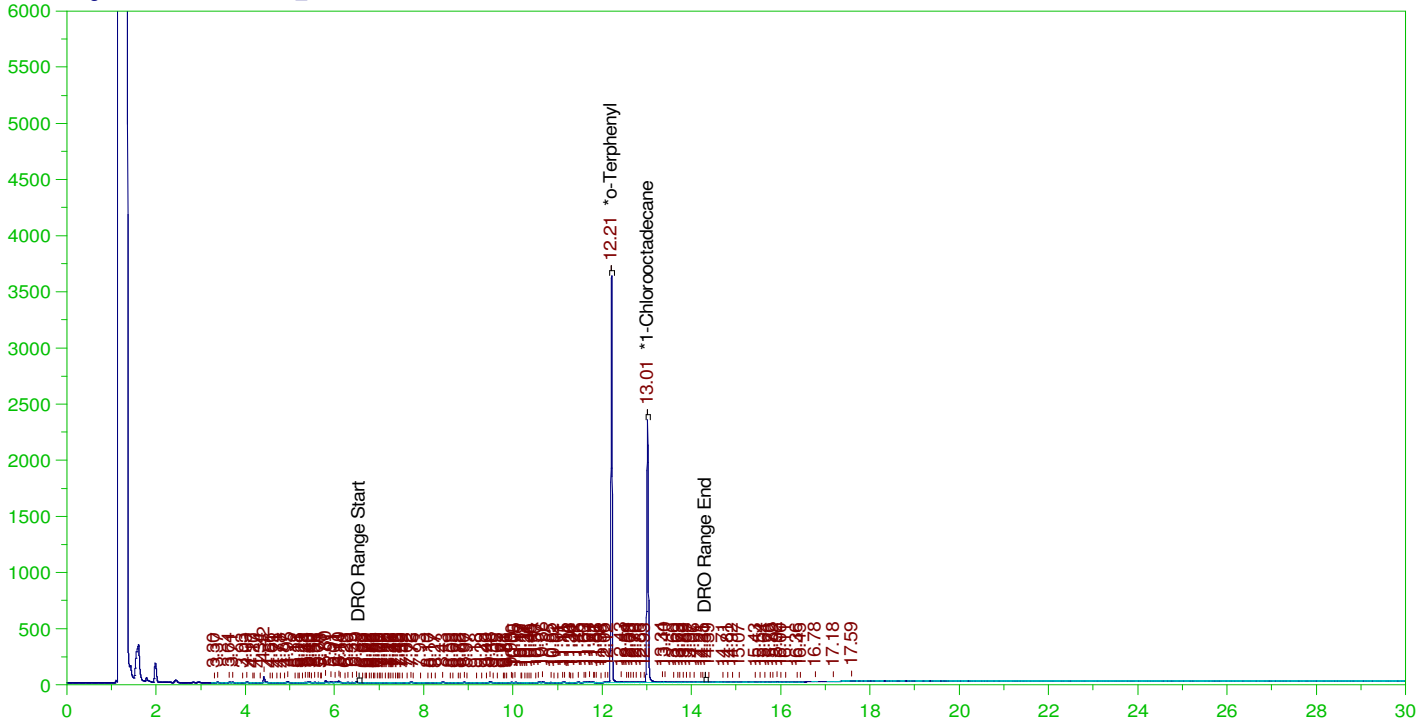
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40)Area:4919291 ~~RRO~~ Oil Range(C24-C40)AMOUNT: 0.1641431

AMN 10/14/2021

**ERH1779 (Prechlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW B21100827-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

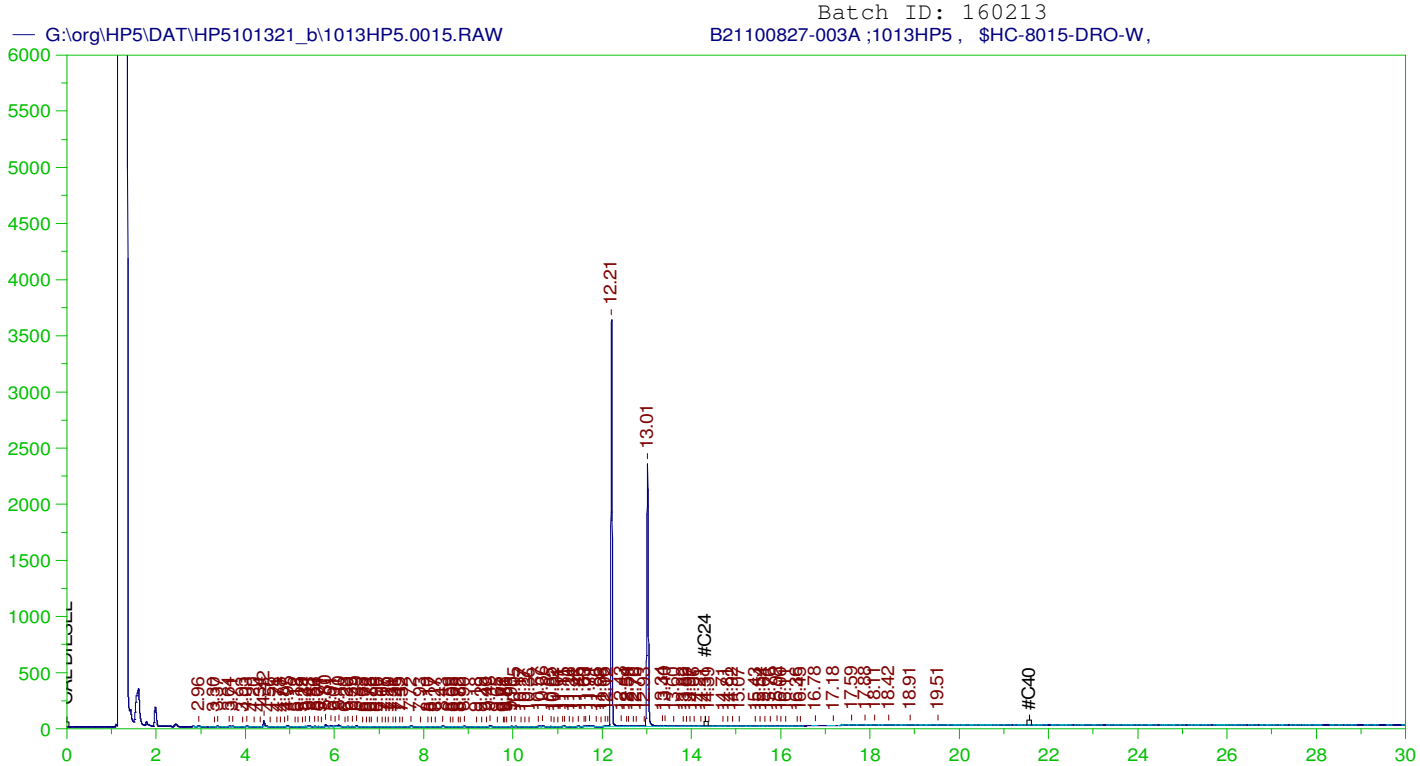
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.206 | .192 | .193 | 100.4 | - |
| *1-Chlorooctadecane | 13.014 | .192 | .144 | 74.93 | - |

DRO (C10-C24)Area:452972.2 DRO (C10-C24)Amount: 0.0147858
TEH Area:986708.3 TEH Amount: 3.220787E-02

AMN 10/14/2021

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

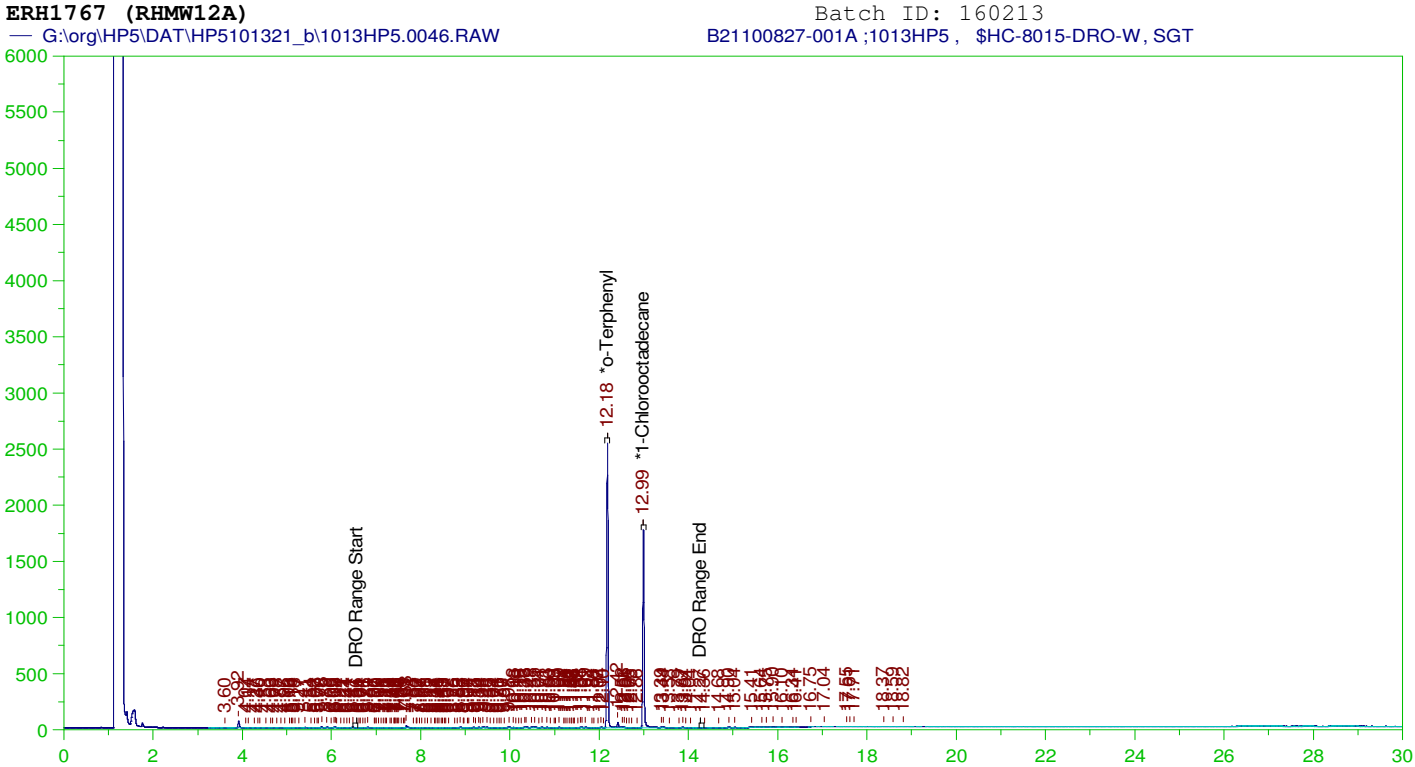
Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40): 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40)Area:75508.58 ~~RRO~~ Oil Range (C24-C40)AMOUNT: 2.543738E-03

AMN 10/14/2021

**ERH1767 (RHMW12A)** Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

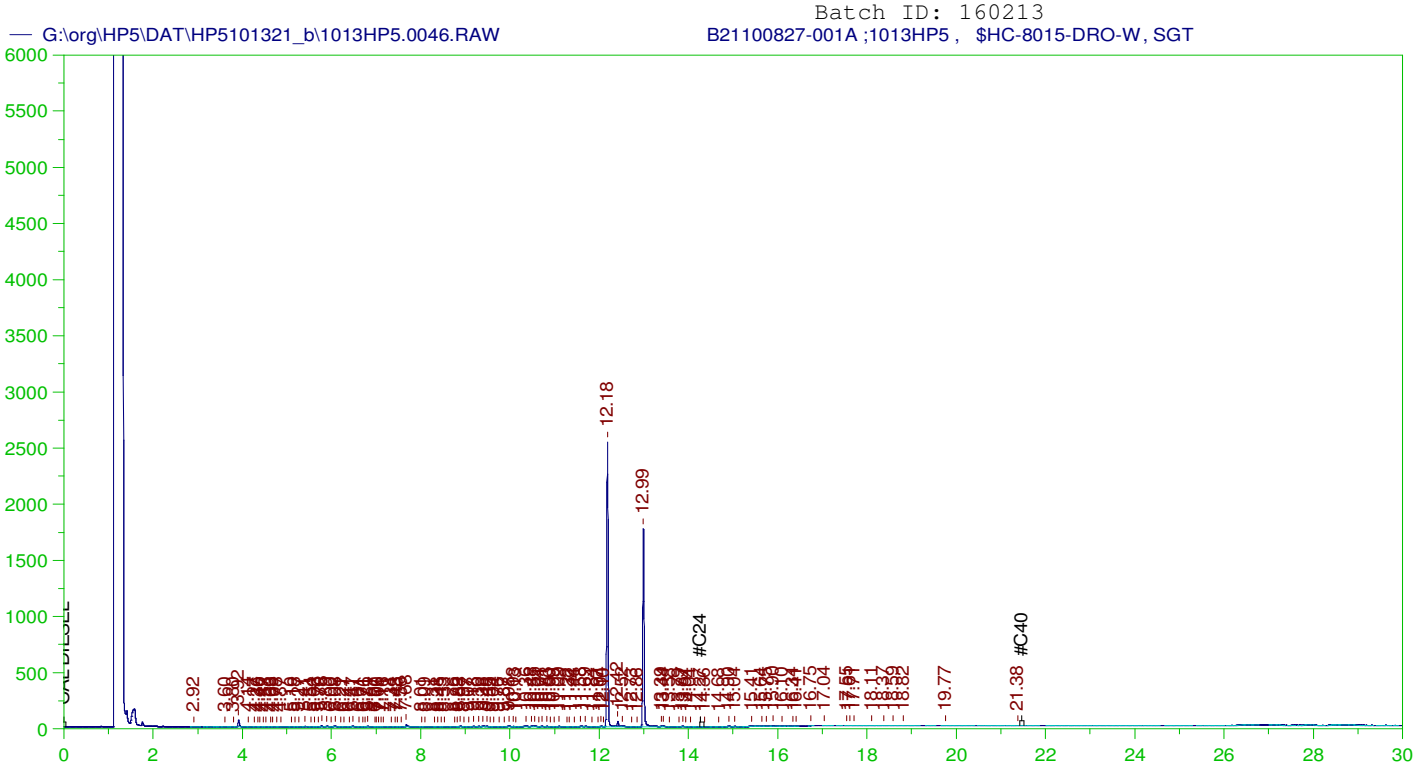
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .191 | .134 | 70.08 | - |
| *1-Chlorooctadecane | 12.989 | .191 | .108 | 56.38 | - |

DRO (SGT-C10-C24)Area:621063.5 DRO (SGT-C10-C24)Amount: 2.017559E-02
TEH (SGT)Area:961300.5 TEH (SGT)Amount: 3.122838E-02

AMN

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40) : 14.25 to 21.52

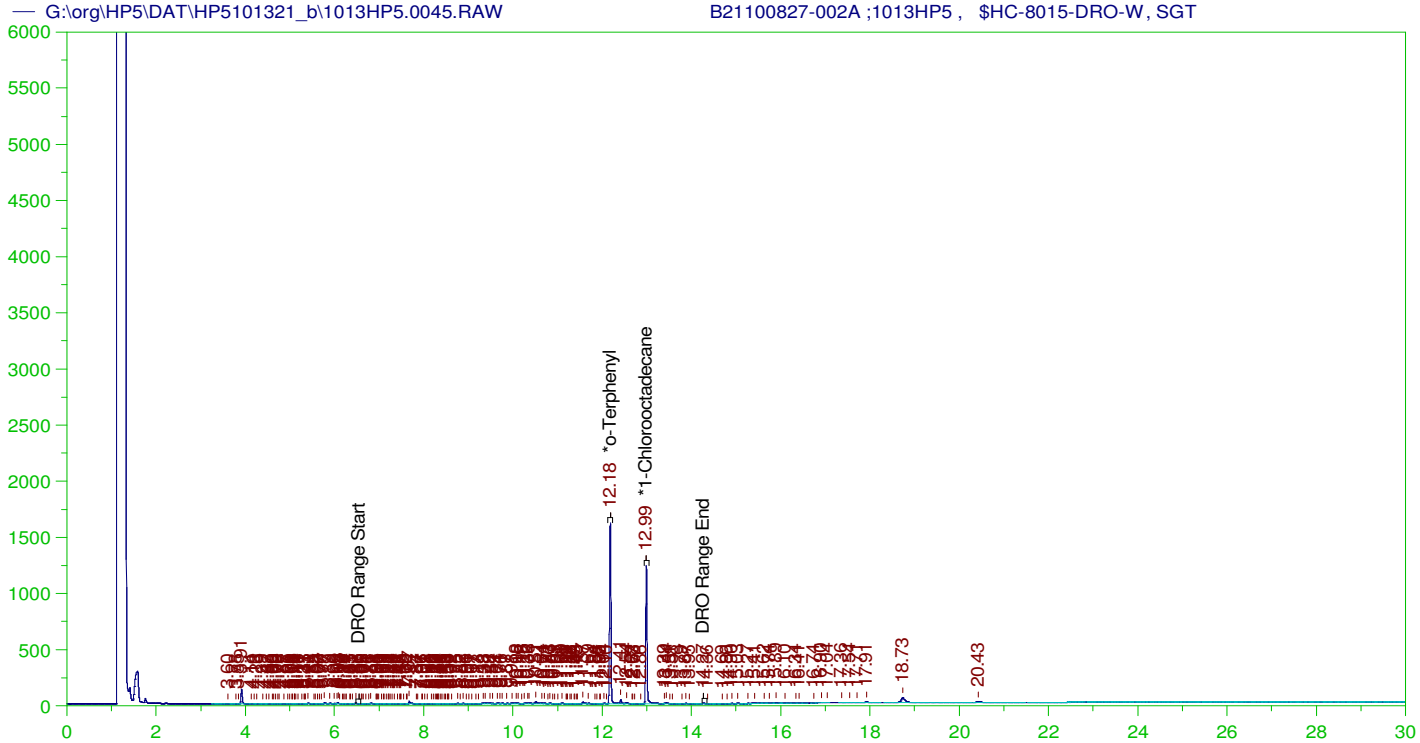
SURROGATE COMPOUND RT ACTUAL MEASURED %REC

~~RRO~~ Oil Range (SGT-C24-C40) Area:55630.14 ~~RRO~~ Oil Range(SGT-C24-C40) AMOUNT: 1.865105E-03

AMN 10/15/2021

**ERH1772 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

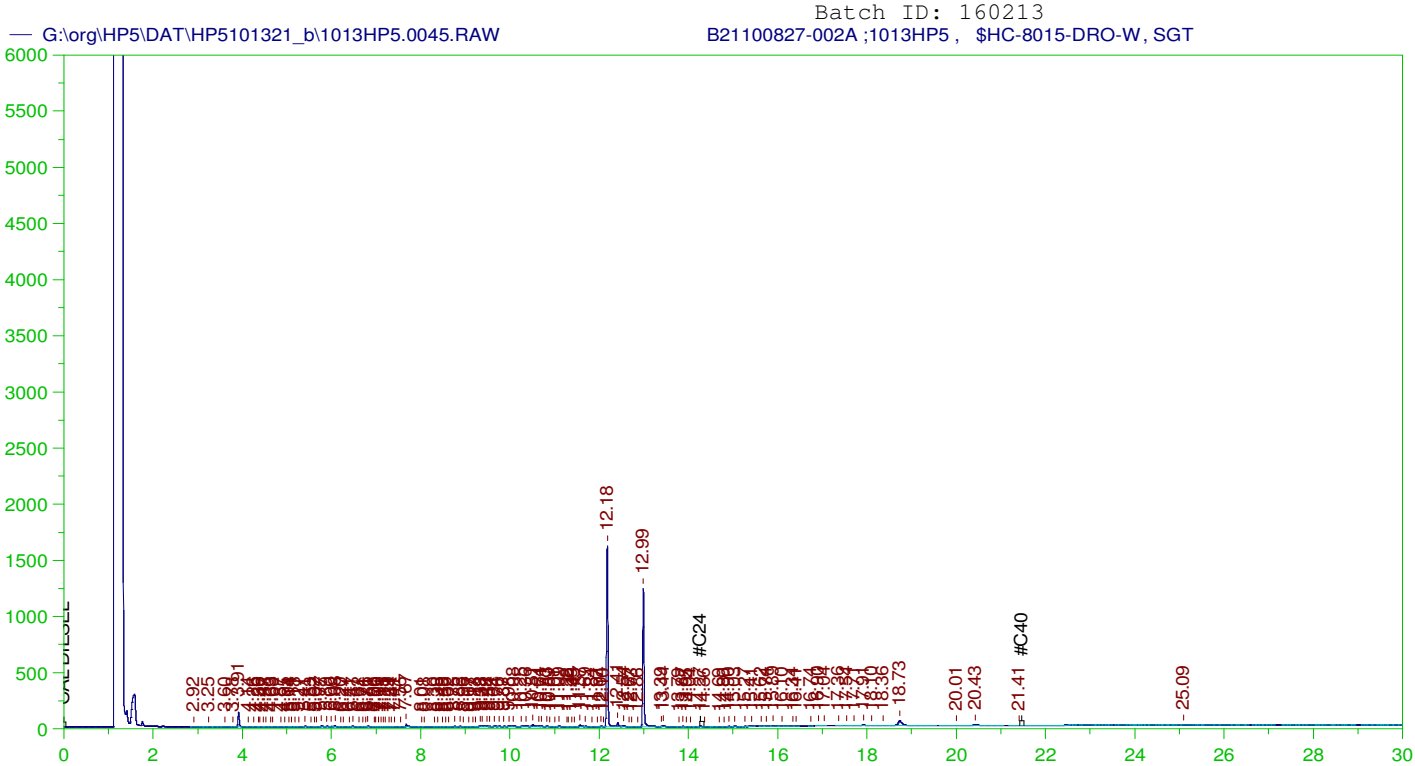
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(SGT-C10-C24): 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.177 | .19 | .086 | 45.32 | - |
| *1-Chlorooctadecane | 12.987 | .19 | .075 | 39.62 | - |

DRO (SGT-C10-C24)Area:799013.4 DRO (SGT-C10-C24)Amount: 2.583279E-02
TEH (SGT)Area:1628058 TEH (SGT)Amount: 5.263652E-02

AMN 10/15/2021

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(SGT-C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(SGT-C24-C40) : 14.25 to 21.52

SURROGATE COMPOUND RT ACTUAL MEASURED %REC

~~RRO~~ Oil Range(SGT-C24-C40) Area:349443.6 ~~RRO~~ Oil Range(SGT-C24-C40) AMOUNT: 1.165996E-02

AMN 10/15/2021

## Leigh Ann Wise

**From:** Ramos, Alethea <alethea.ramos@aecom.com>
**Sent:** Tuesday, November 02, 2021 1:50 PM
**To:** Shari Endy
**Subject:** RE: [EXTERNAL] B21100827

Hi Shari,

Please proceed with analysis.

Thank you,

**Alethea Ramos, CIH**
Environmental Scientist, Environmental Health & Science, Environment
D +1-808-529-7283
M +1-808-389-5383
alethea.ramos@aecom.com

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**From:** Shari Endy <sendy@energylab.com>
**Sent:** Tuesday, November 2, 2021 6:09 AM
**To:** Ramos, Alethea <alethea.ramos@aecom.com>
**Subject:** [EXTERNAL] B21100827

Good morning Alethea –

We are working to get the above report sent to you. We received 3 samples ERH1767(RHMW12A), ERH1772(RHMW12A) and ERH1779(Prechlorination) on October 11. The temperature of the cooler was 18.0. I believe I spoke with you about this and cannot find an email from you. Can you confirm that you want us to proceed with this analysis? Thank you.

**Energy Laboratories, Inc.**
Trust our People.  Trust our Data.

**Shari Endy** | Sr. Project Manager | Billings, MT
O: 406-869-6253| sendy@energylab.com | www.energylab.com

***We want to help you ship successfully****! Please plan ahead and allow extra time to receive supplies from the lab and for the lab to receive your samples. All carriers are in full-swing holiday peak season operating with double the volume and limited capacity. We appreciate your business so please contact your local branch or Project Manager to discuss adjustments to your shipping schedule or to ask questions.*

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If you received this in error, please contact the sender and delete this email and all copies.

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*07-May-21*

**Run ID** GCFID-HP5-B_210108B

| | |
|---|---|
| **Run Start Date:** | 1/8/2021 |
| **Analyst:** | Ann Nebel |
| **Ical:** | |
| **Column ID:** | |
| **Comments:** | NEW ICAL<br>SW8015C_DRO210108HA.CAL |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CALS | 12/31/2021 |
| DRO201210A | #2 Diesel in Acetone 150,000 ug/mL | | | | | SECOND S | 6/10/2021 |
| DRO210105B | EPH (4) SURR-1000 ug/mL ea. in Hexane | | | | | SURRS | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154799 | CCV_0108HP51 | HC-8015-DRO- | CAL1 | | 1/8/2021 2:21:25 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1350772 | | 0.15 | 0 | 0 | 0.0499 | 0.3 | 50 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154800 | CCV_0108HP51 | HC-8015-DRO- | CAL2 | | 1/8/2021 3:03:30 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.865478 | | 3.75 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154801 | CCV_0108HP51 | HC-8015-DRO- | CAL3 | | 1/8/2021 3:45:32 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.3786 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154802 | CCV_0108HP51 | HC-8015-DRO- | CAL4 | | 1/8/2021 4:27:38 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 39.10215 | | 37.5 | 0 | 0 | 0.0499 | 0.3 | 50 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154803 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 5:09:49 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 50.03634 | | 50 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154804 | CCV_0108HP50 | HC-8015-DRO- | CAL1 | | 1/8/2021 5:52:15 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00201784 | | 0.002 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154805 | CCV_0108HP50 | HC-8015-DRO- | CAL2 | | 1/8/2021 6:34:45 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04980491 | | 0.05 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154806 | CCV_0108HP50 | HC-8015-DRO- | CAL3 | | 1/8/2021 7:17:18 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2027571 | | 0.2 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154807 | CCV_0108HP50 | HC-8015-DRO- | CAL4 | | 1/8/2021 7:59:52 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.4989882 | | 0.5 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154808 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 8:42:33 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.9852039 | | 1 | 0 | 0 | 0.000327 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154809 | CCV_0108HP51 | HC-8015-DRO- | ICV | | 1/8/2021 9:25:08 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 14.94195 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Version: 6

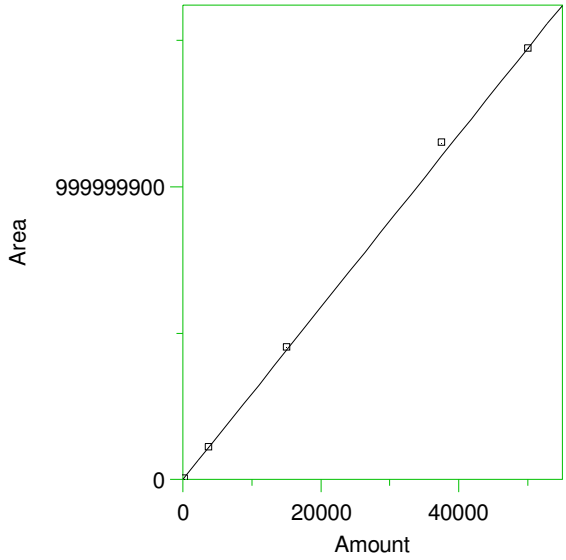
Creator: AMN 1/11/2021
Description: DRO-8015C. New ICal Per 0108HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.82 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

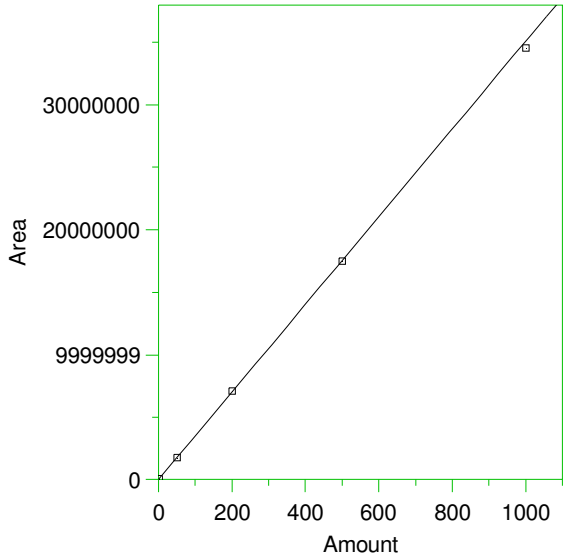
Y = 29457.33 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9985872 |
| Average error: | 3.979% |
| Average CF: | 29457.33 |
| RSD: | 5.768% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3979014 | 26526.76 | -9.949 | Manual | 1/11/2021 9:46:00 AM |
| 2 | 3750 | 1.138667E+08 | 30364.46 | 3.079 | Manual | 1/11/2021 9:46:09 AM |
| 3 | 15000 | 4.530125E+08 | 30200.83 | 2.524 | Manual | 1/11/2021 9:46:18 AM |
| 4 | 37500 | 1.151845E+09 | 30715.87 | 4.272 | Manual | 1/11/2021 9:46:27 AM |
| 5 | 50000 | 1.473937E+09 | 29478.74 | 0.073 | Manual | 1/11/2021 9:46:39 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.57 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

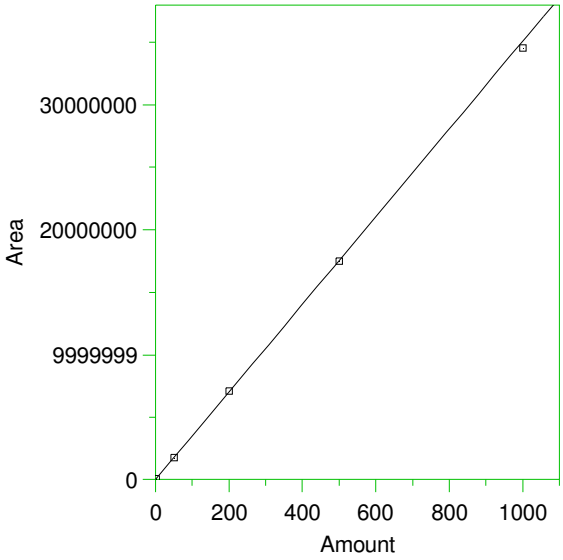
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.36 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

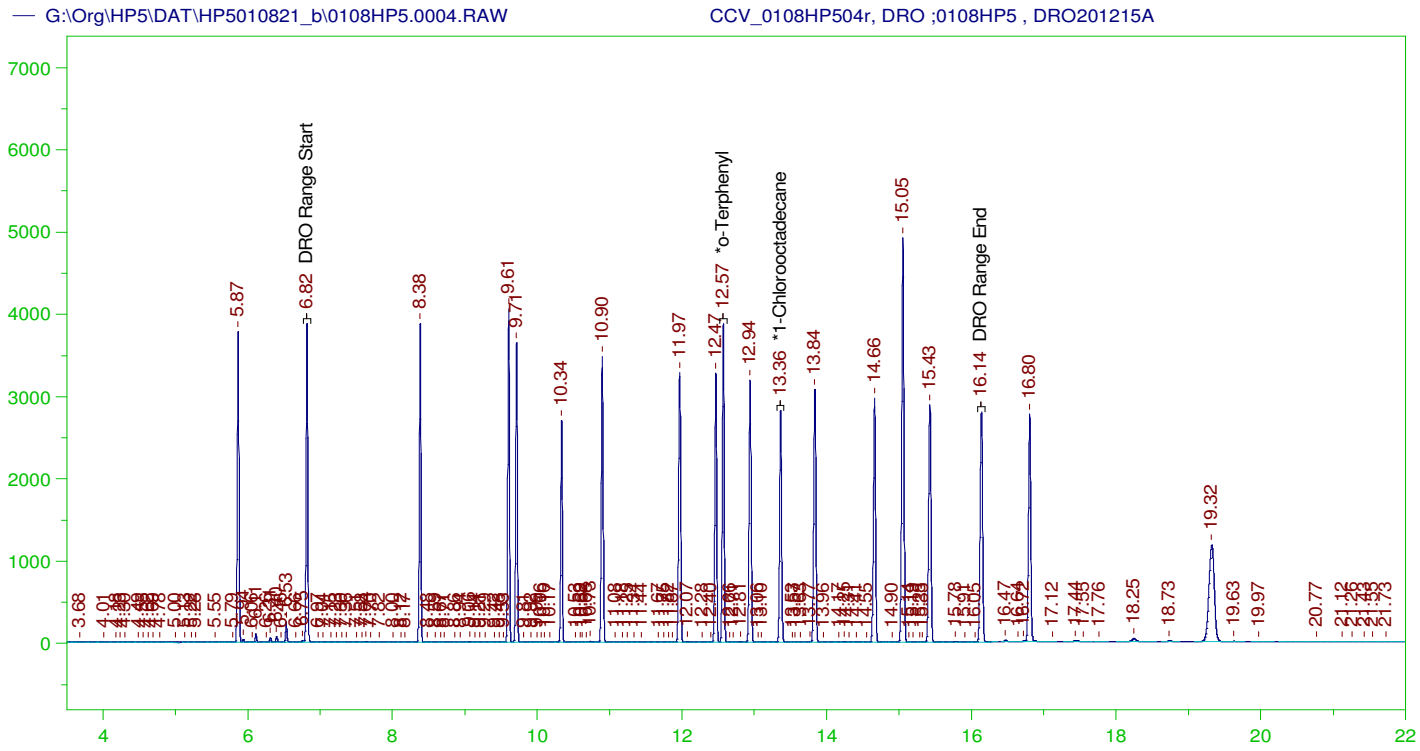
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP504r, DRO ;0108HP5 , DRO201215A
Raw File: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW
Date & Time Acquired: 1/8/2021 12:47:29 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | - |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | - |

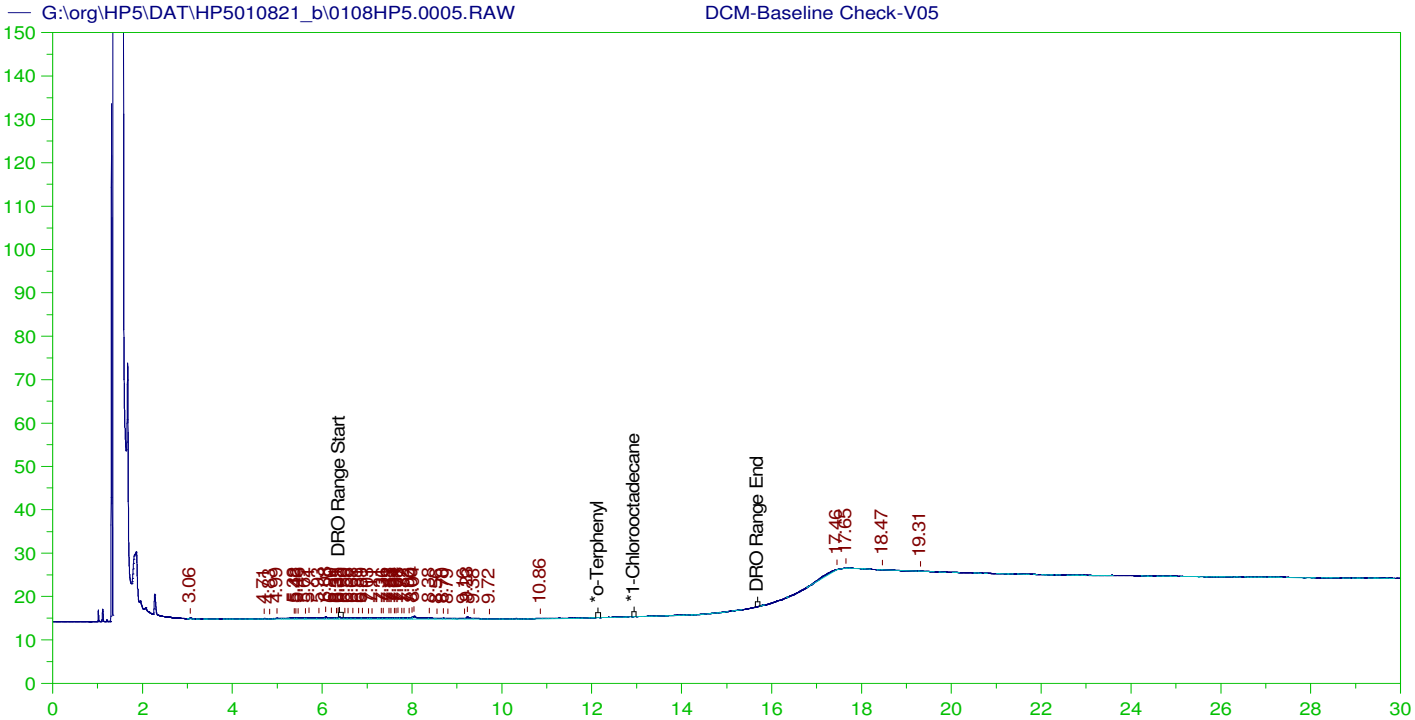
DRO Area:8.880706E+07 DRO Amount: 3014.77
TEH Area:1.082932E+08 TEH Amount: 3676.273

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3676.27 | 24.51 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | 85-115 |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\004_CCV_0108HP504r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

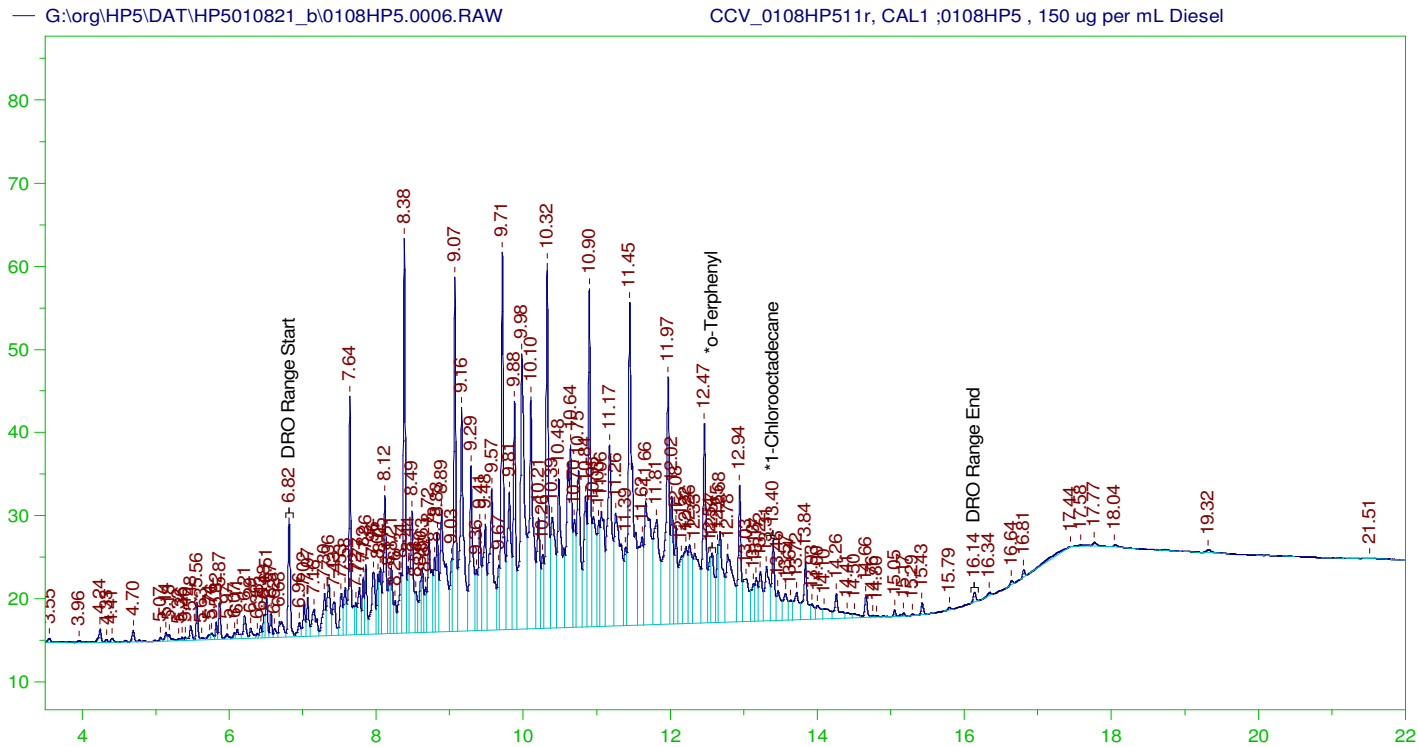
Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0005.RAW
Date & Time Acquired: 1/8/2021 1:29:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-GX-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO200123GX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28963.21
Rt range for Diesel Range Organics: 6.36 to 15.74

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.787 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.787 | 200. | . | . | - |

DRO Area:48911.73 DRO Amount: 1.688754
TEH Area:90991.55 TEH Amount: 3.141625

G:\org\HP5\dat\HP5010821_b\Review\005_DCM-Baseline Chec_DR_8015-GX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW
Date & Time Acquired: 1/8/2021 2:21:25 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | - |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | - |

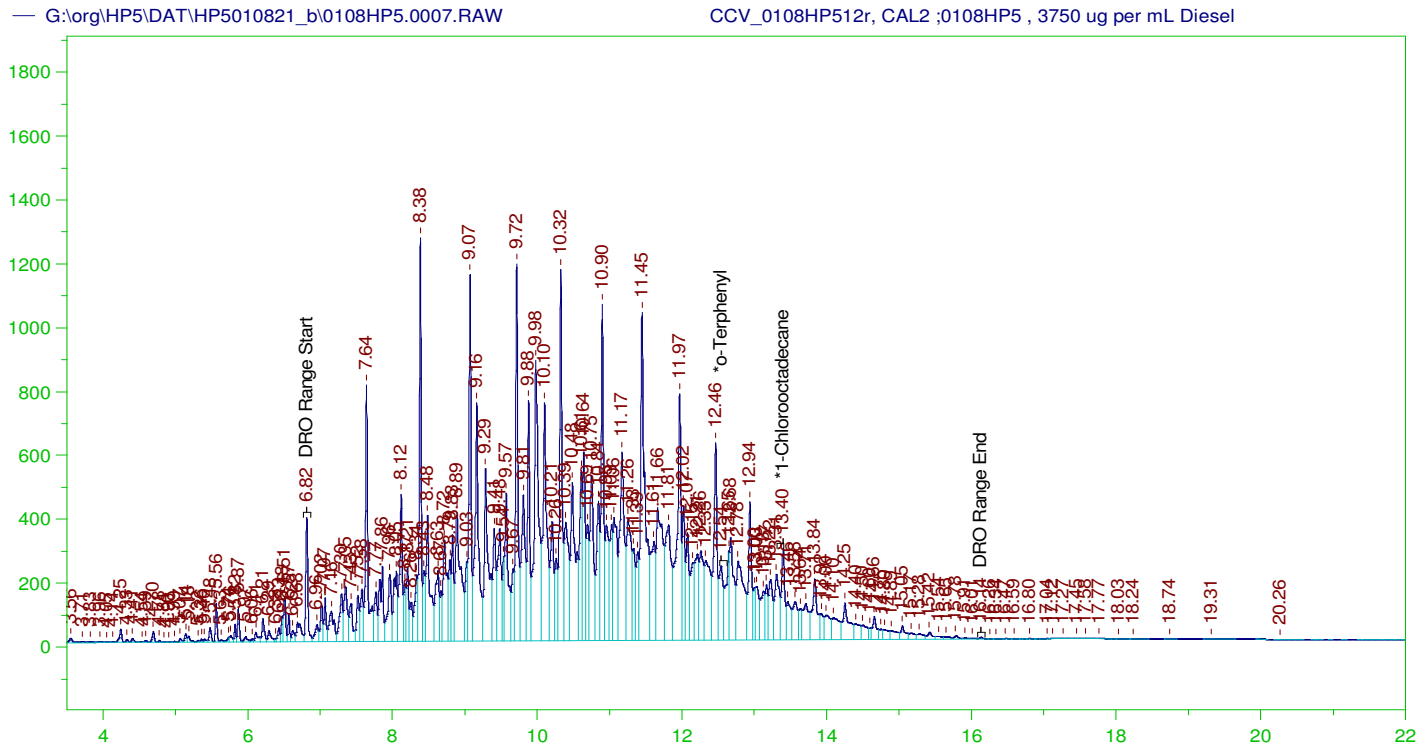
DRO Area:3854036 DRO Amount: 130.8345
TEH Area:3979014 TEH Amount: 135.0772

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 135.08 | .9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | 85-115 |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\006_CCV_0108HP511r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW
Date & Time Acquired: 1/8/2021 3:03:30 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | - |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | - |

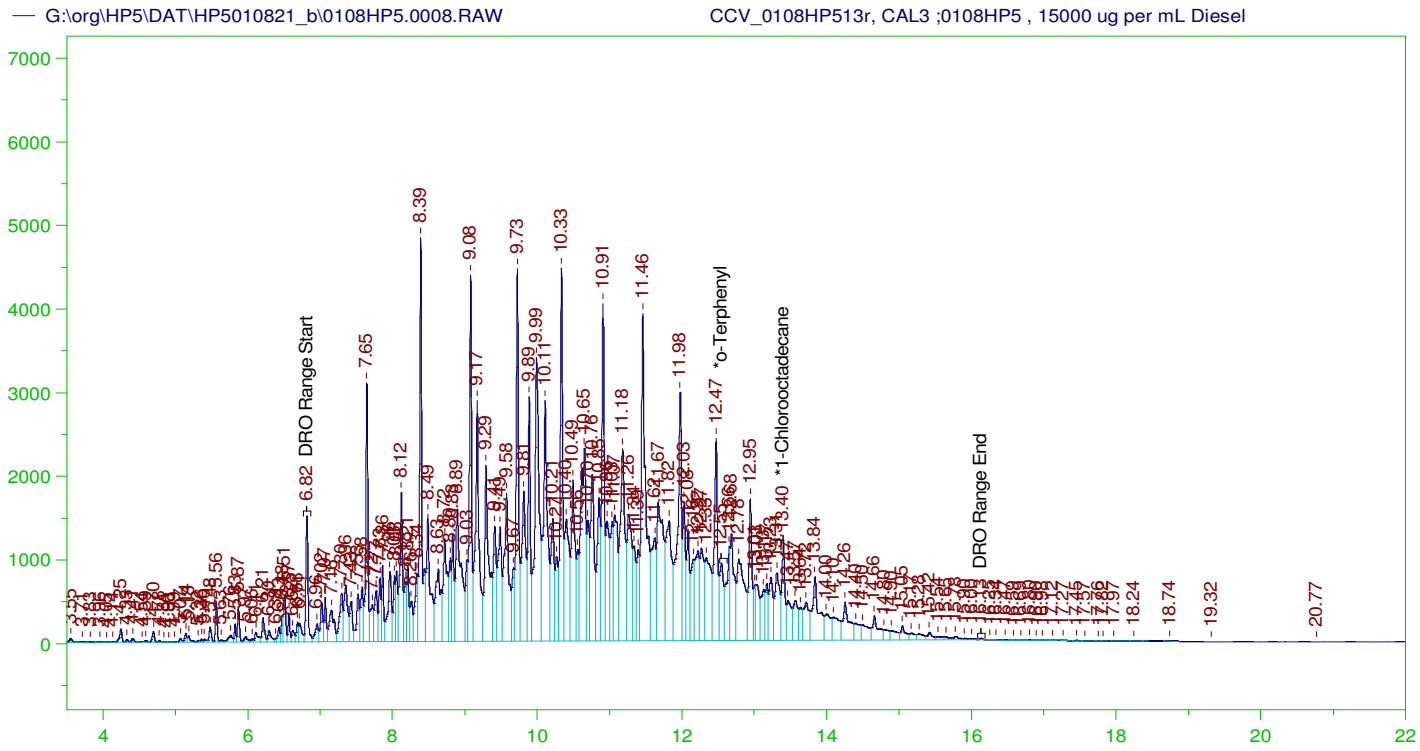
DRO Area:1.111179E+08 DRO Amount: 3772.164
TEH Area:1.138667E+08 TEH Amount: 3865.478

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3865.48 | 25.77 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | 85-115 |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\007_CCV_0108HP512r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW
Date & Time Acquired: 1/8/2021 3:45:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | - |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | - |

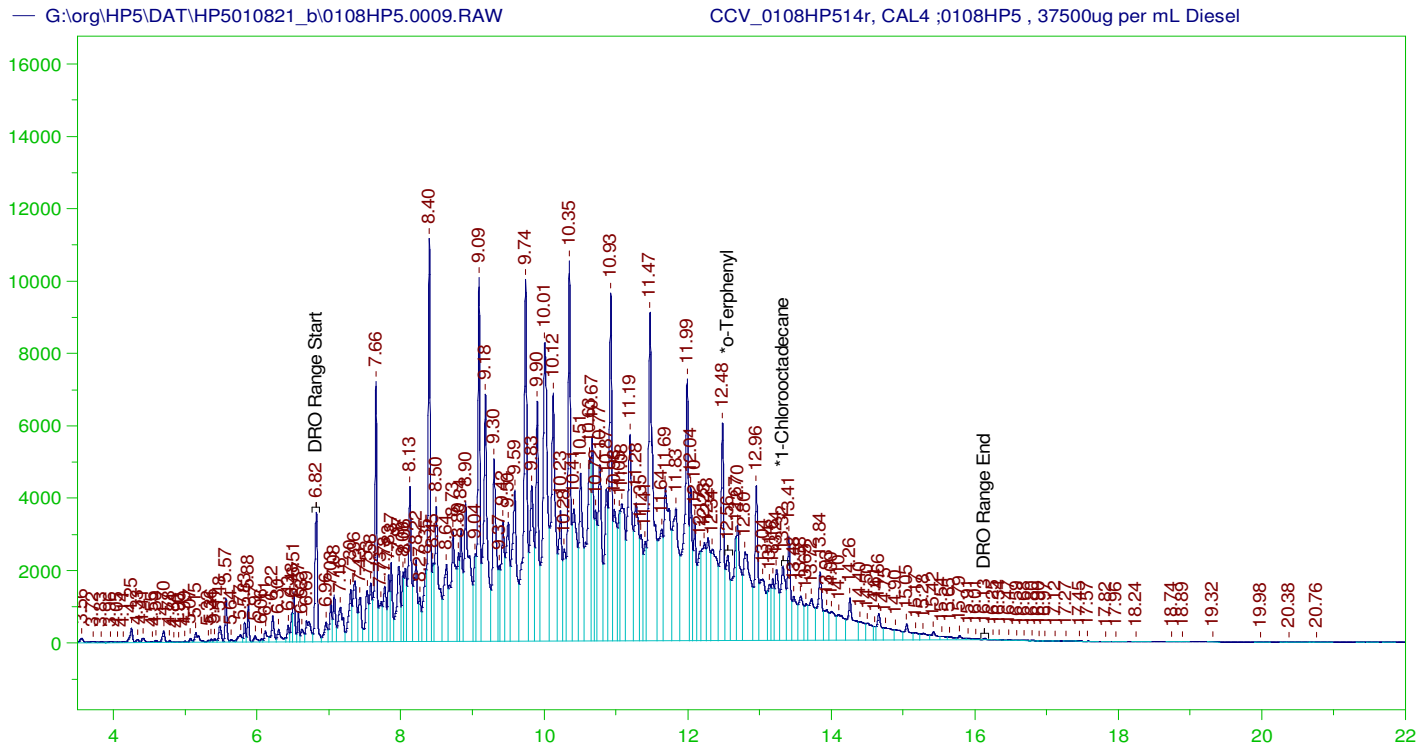
DRO Area:4.420163E+08 DRO Amount: 15005.31
TEH Area:4.530125E+08 TEH Amount: 15378.6

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15378.6 | 102.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | 85-115 |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\008_CCV_0108HP513r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW
Date & Time Acquired: 1/8/2021 4:27:38 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | - |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | - |

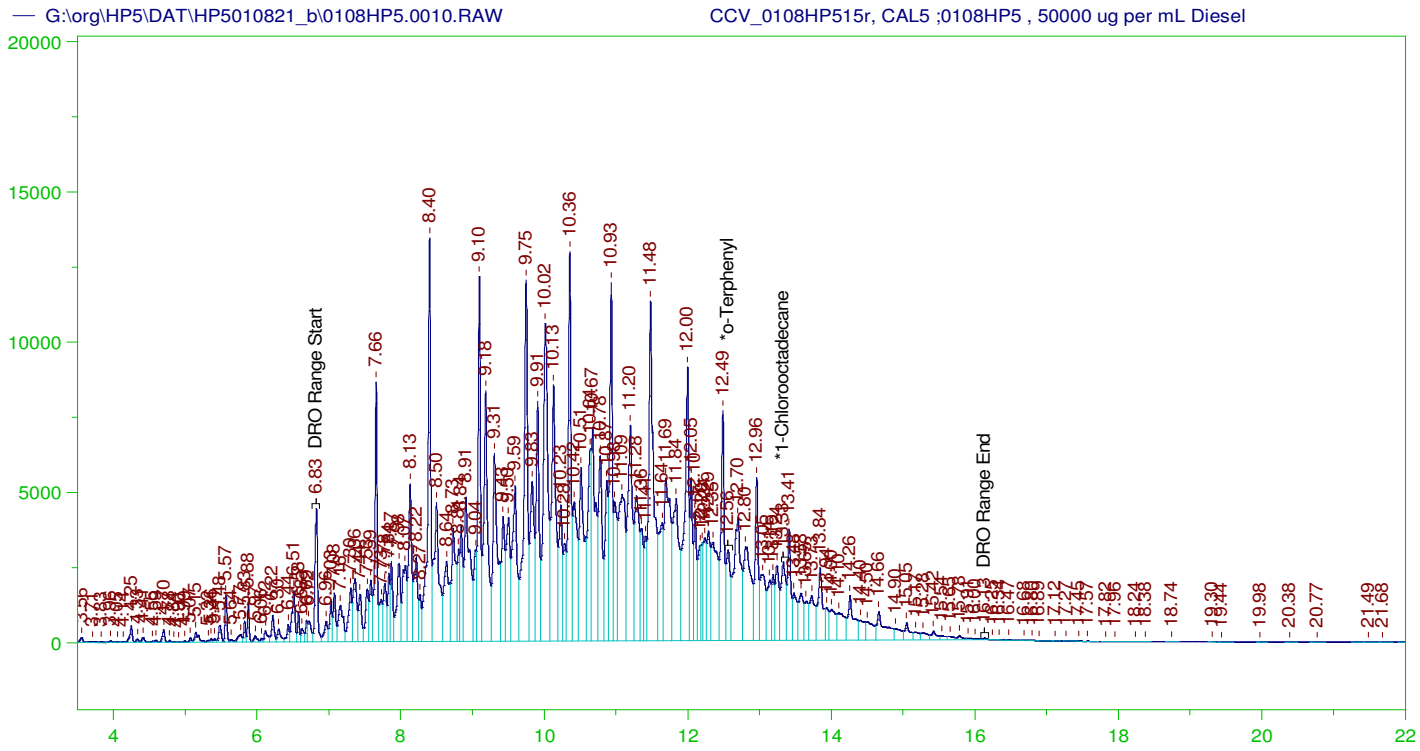
DRO Area:1.1239E+09 DRO Amount: 38153.5
TEH Area:1.151845E+09 TEH Amount: 39102.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39102.15 | 260.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | 85-115 |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\009_CCV_0108HP514r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW
Date & Time Acquired: 1/8/2021 5:09:49 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | - |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | - |

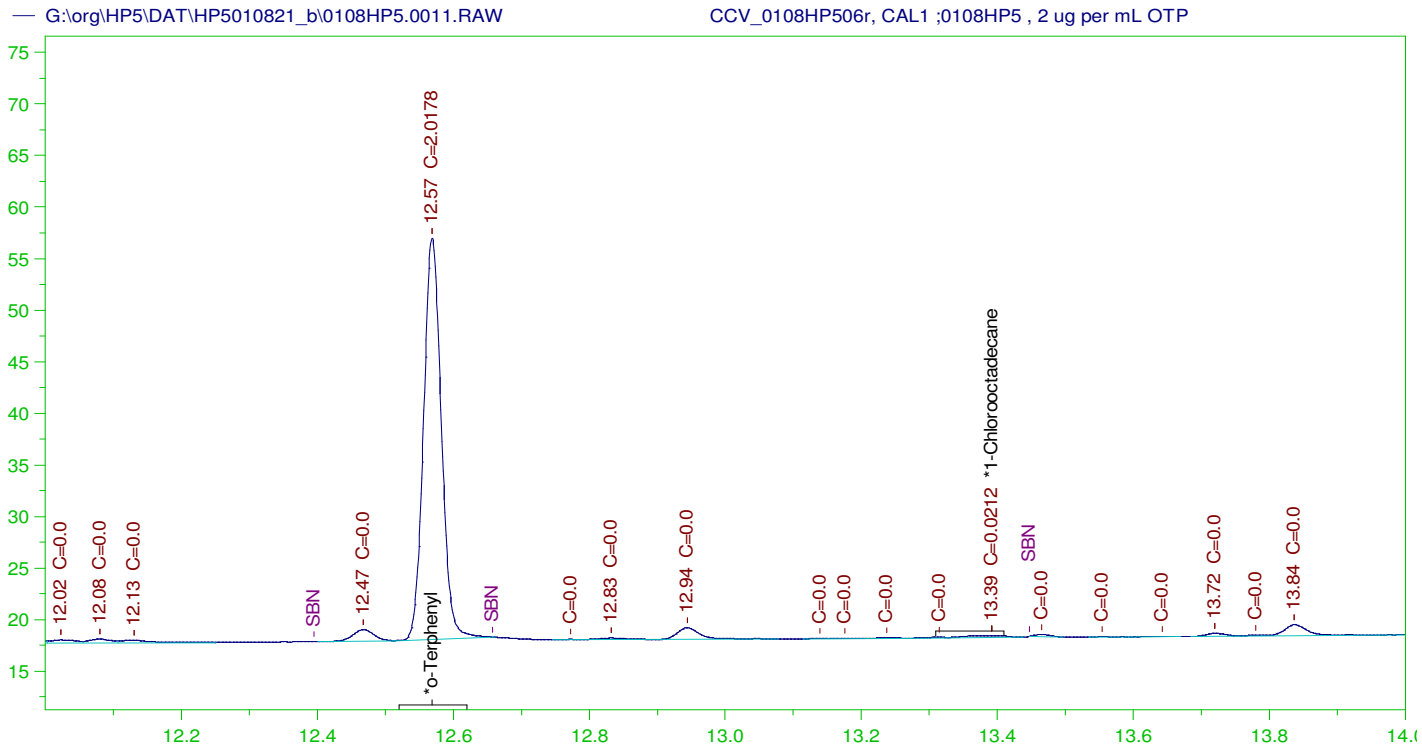
DRO Area:1.438162E+09 DRO Amount: 48821.87
TEH Area:1.473937E+09 TEH Amount: 50036.34

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 50036.34 | 333.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | 85-115 |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\010_CCV_0108HP515r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW
Date & Time Acquired: 1/8/2021 5:52:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | - |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | - |

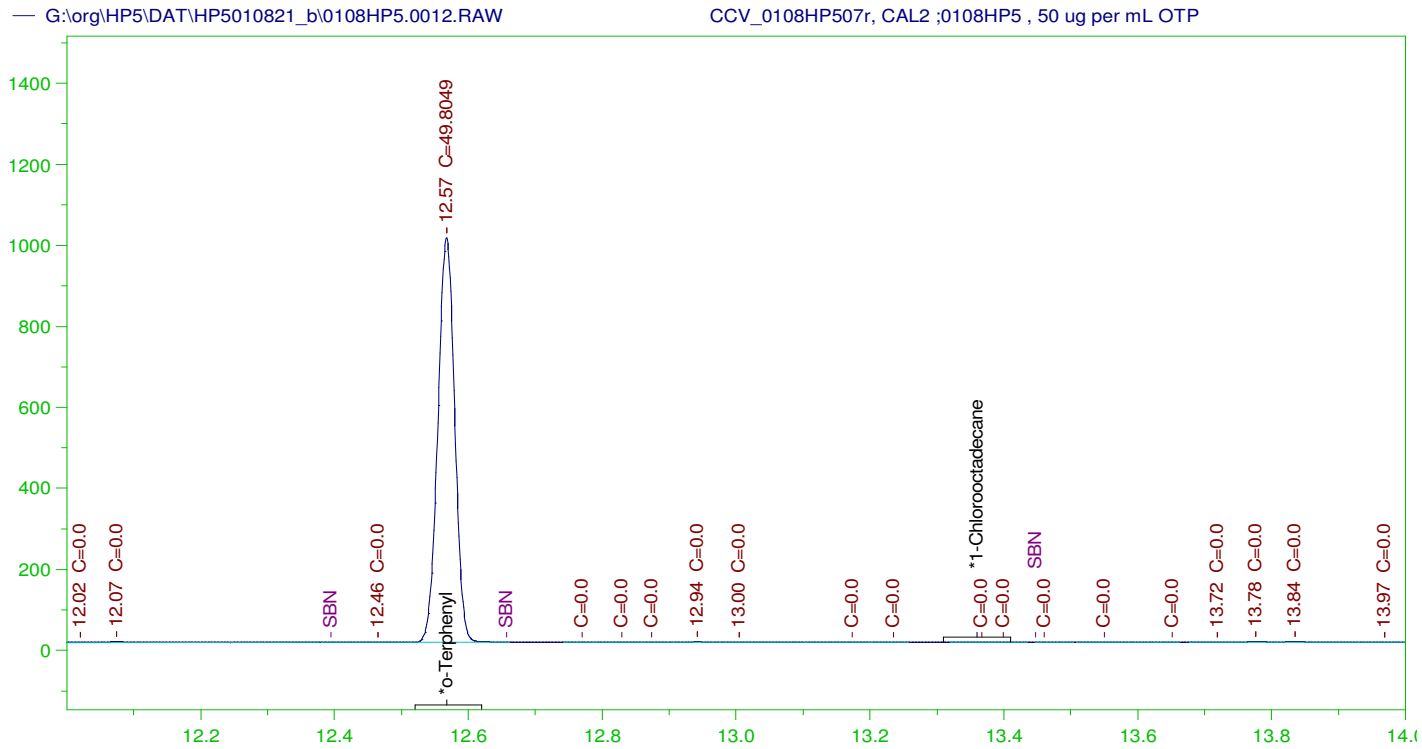
DRO Area:153898.5 DRO Amount: 5.224453
TEH Area:367701.2 TEH Amount: 12.4825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | 85-115 |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\011_CCV_0108HP506r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW
Date & Time Acquired: 1/8/2021 6:34:45 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | - |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | - |

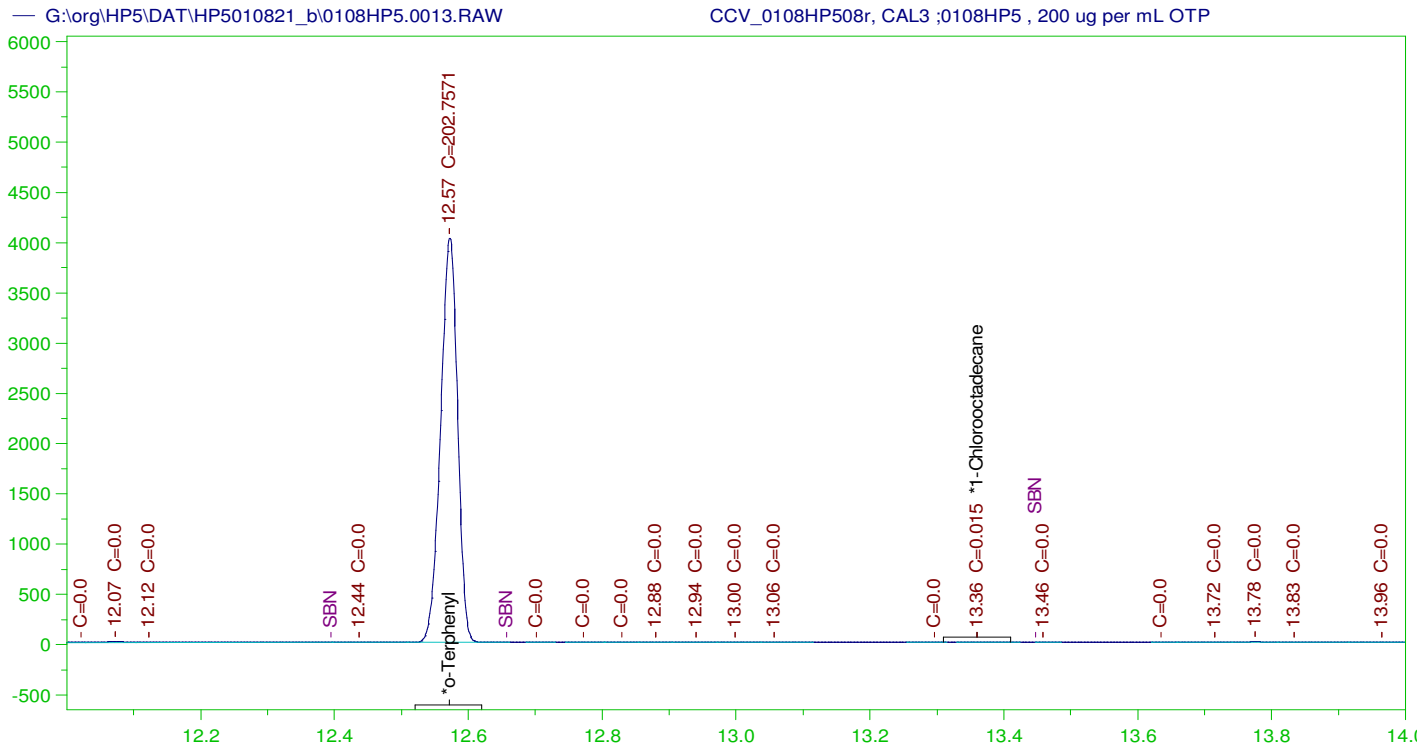
DRO Area:198540.3 DRO Amount: 6.739929
TEH Area:443484.3 TEH Amount: 15.05514

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | 85-115 |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\012_CCV_0108HP507r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW
Date & Time Acquired: 1/8/2021 7:17:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | - |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | - |

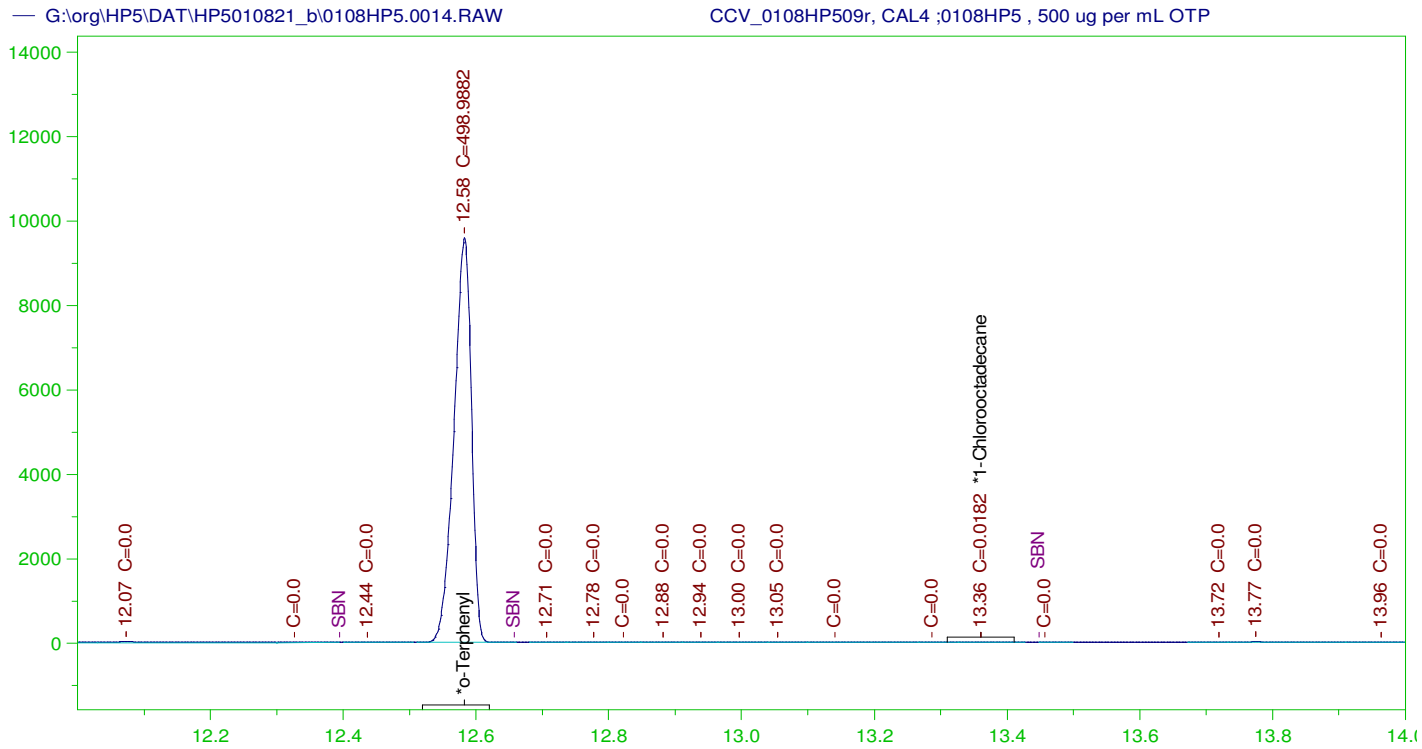
DRO Area:425468.4 DRO Amount: 14.44355
TEH Area:809202.7 TEH Amount: 27.47033

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 27.47 | .18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | 85-115 |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\013_CCV_0108HP508r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW
Date & Time Acquired: 1/8/2021 7:59:52 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | - |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | - |

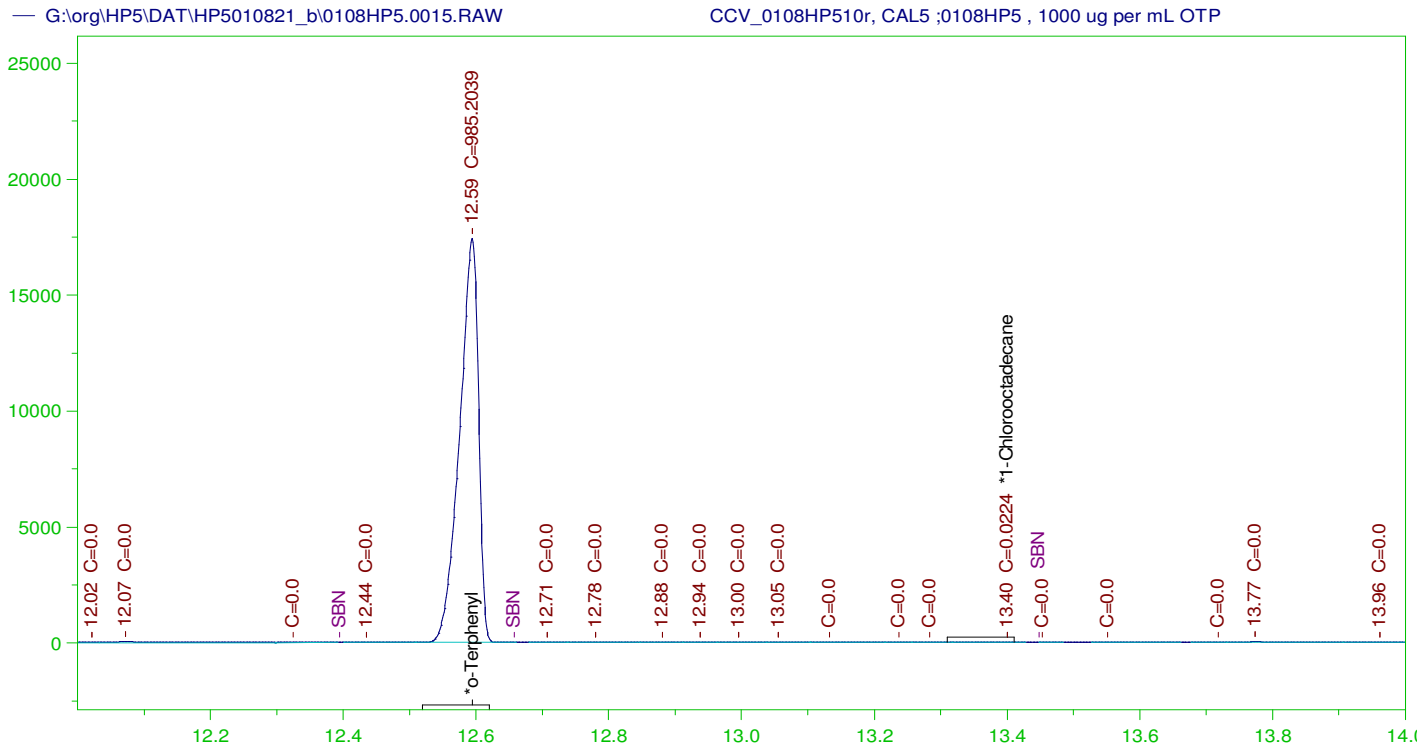
DRO Area:651862.6 DRO Amount: 22.12904
TEH Area:1164840 TEH Amount: 39.5433

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39.54 | .26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | 85-115 |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\014_CCV_0108HP509r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW
Date & Time Acquired: 1/8/2021 8:42:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | - |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | - |

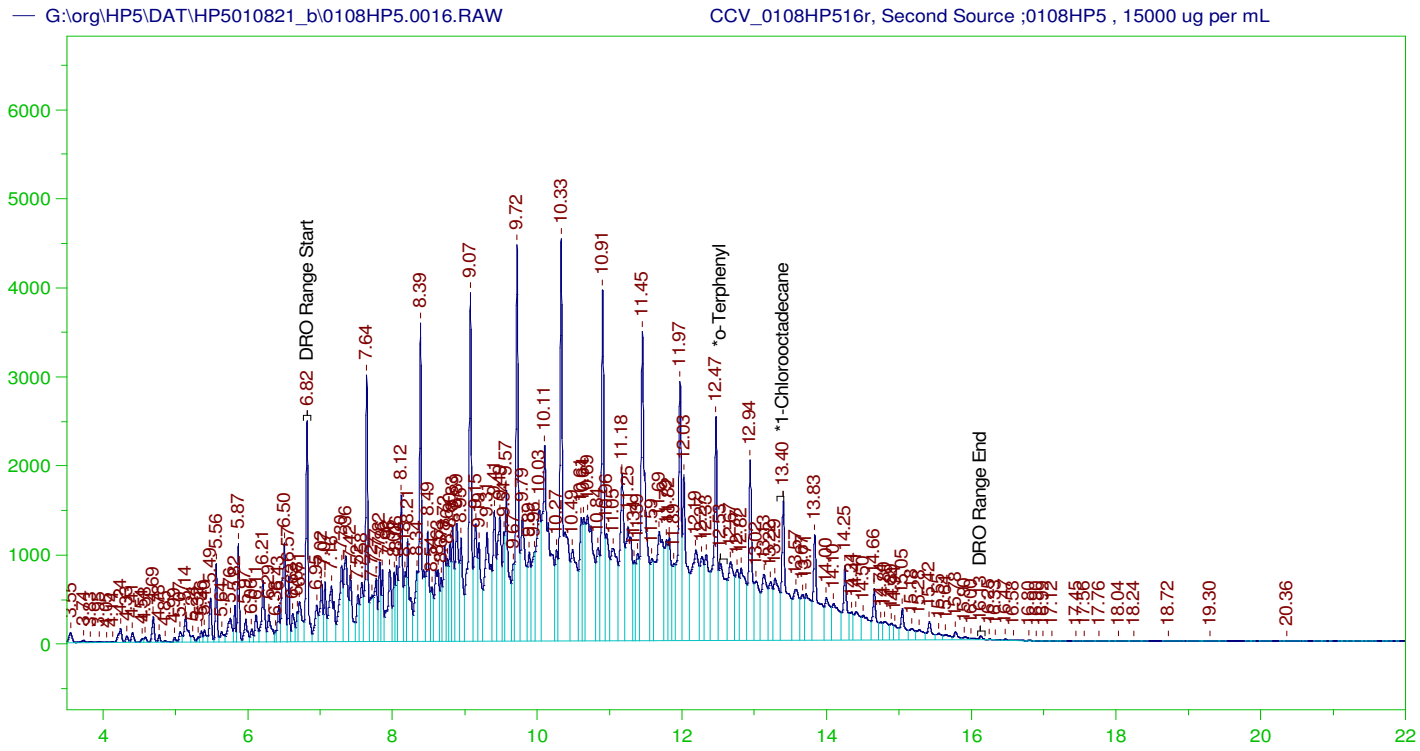
DRO Area:856596.9 DRO Amount: 29.07924
TEH Area:1371563 TEH Amount: 46.561

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 46.56 | .31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | 85-115 |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\015_CCV_0108HP510r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW
Date & Time Acquired: 1/8/2021 9:25:08 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | - |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | - |

DRO Area:4.138122E+08 DRO Amount: 14047.85
TEH Area:4.4015E+08 TEH Amount: 14941.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 14941.95 | 99.61 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | 85-115 |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\016_CCV_0108HP516r_DC_8015-HA-L%.xls

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selected)<br>Sample Name | Method | Weight | Dil Factor | Amt Inj.. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | Integration is valley to valley. Assigned Set Baseline All Valley on at 17.5. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.01.27 15:17:17 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Sep-21*

**Run ID** GCFID-HP5-B_210218B

**Run Start Date:** 2/18/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015 OIL range calibration
SW8015_OIL210218

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL | 8/31/2025 |
| DRO210204A | Carbon Scan STD | | | | | MARKER | 3/5/2028 |
| DRO210217A | 20,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | ICV | 8/23/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282665 | CCV_0218HP50 | HC-8015-DRO- | CAL1 | | 2/18/2021 12:03: | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1468323 | | 0.15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282666 | CCV_0218HP50 | HC-8015-DRO- | CAL2 | | 2/18/2021 1:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.062811 | | 1 | 0 | 0 | 0.15 | 0.3 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282667 | CCV_0218HP50 | HC-8015-DRO- | CAL3 | | 2/18/2021 2:51:0 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.035713 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282668 | CCV_0218HP50 | HC-8015-DRO- | CAL4 | | 2/18/2021 4:14:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.69295 | | 15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282669 | CCV_0218HP51 | HC-8015-DRO- | CAL5 | | 2/18/2021 5:38:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 28.20769 | | 30 | 0 | 0 | 0.15 | 0.3 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282670 | CCV_0218HP51 | HC-8015-DRO- | ICV | | 2/18/2021 8:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.474465 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 109% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Nam | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Version: 4

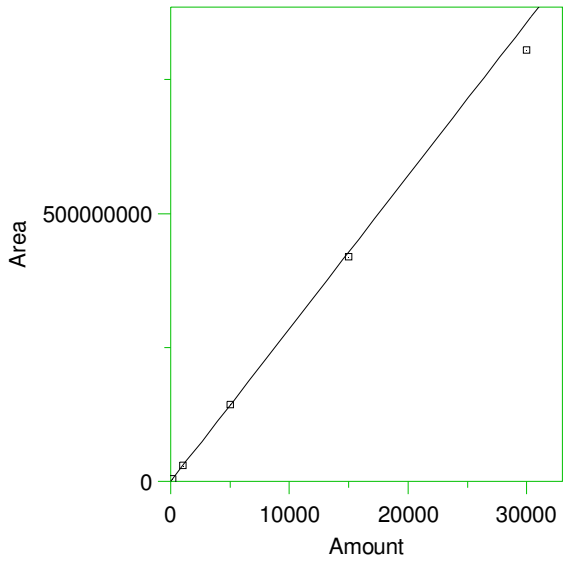
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.54 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

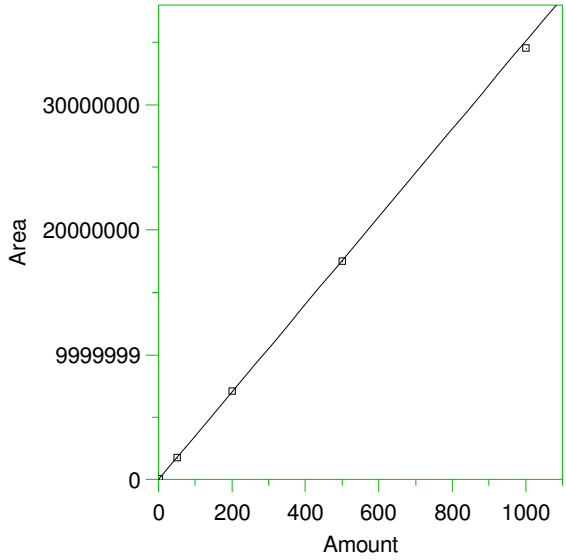
Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9940317 |
| Average error: | 3.209% |
| Average CF: | 28542.41 |
| RSD: | 4.497% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 3/30/2021 11:50:57 AM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 3/30/2021 11:51:41 AM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 3/30/2021 11:52:00 AM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 3/30/2021 11:52:55 AM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 3/30/2021 11:52:32 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.14 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

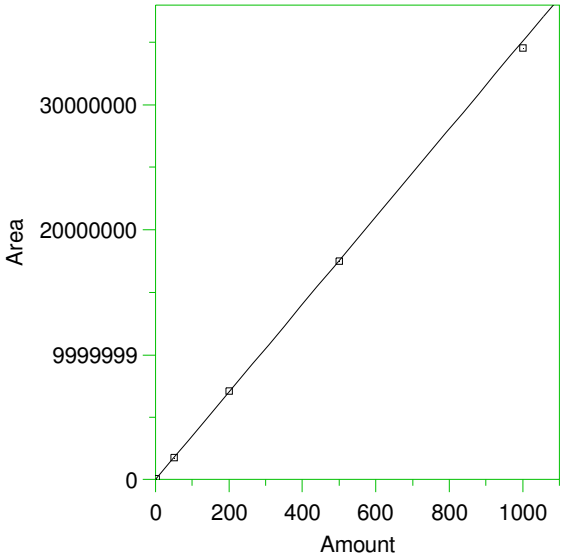
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.95 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

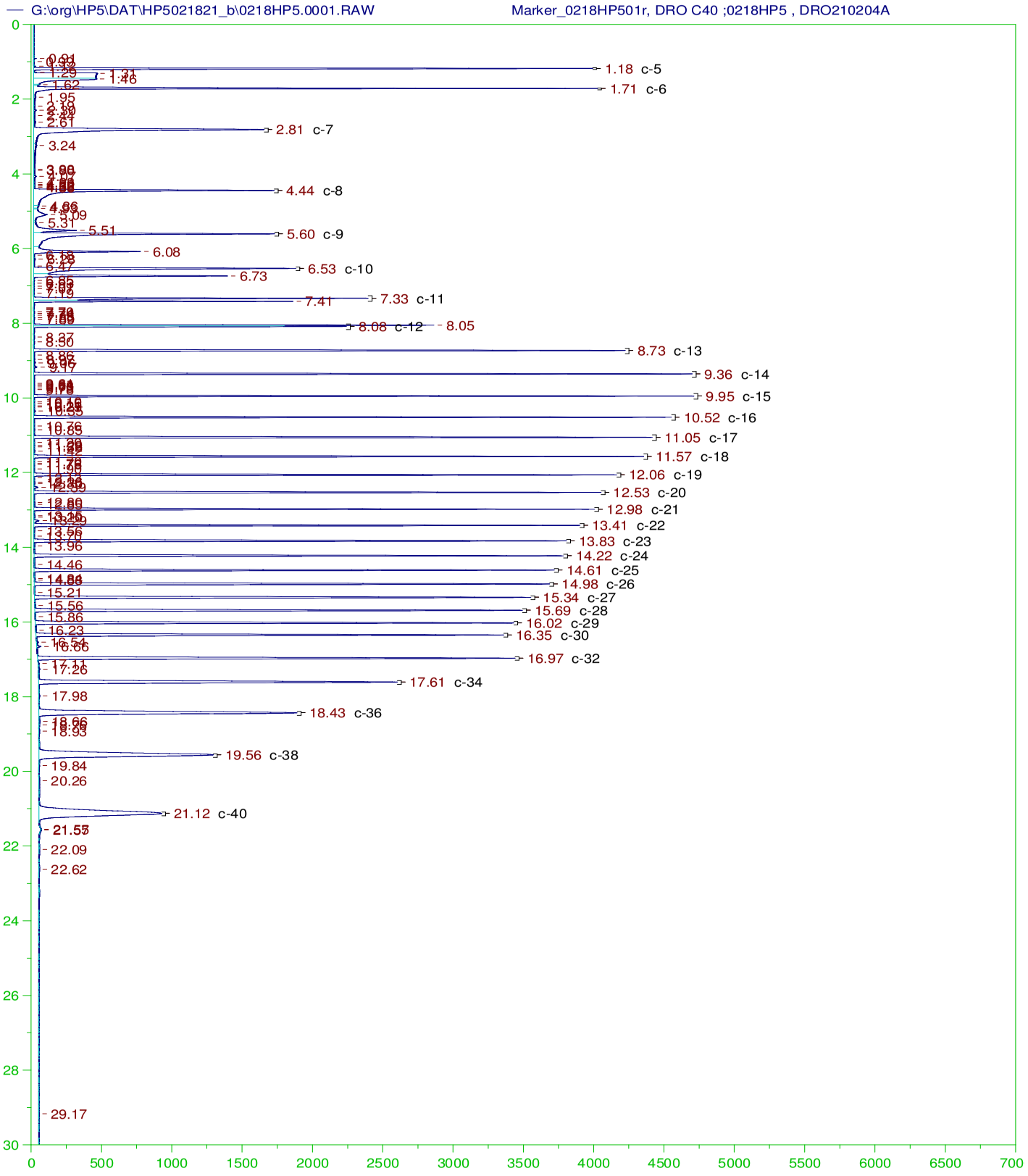
Single peak quantification by area

Y = 35071.26 X + 0

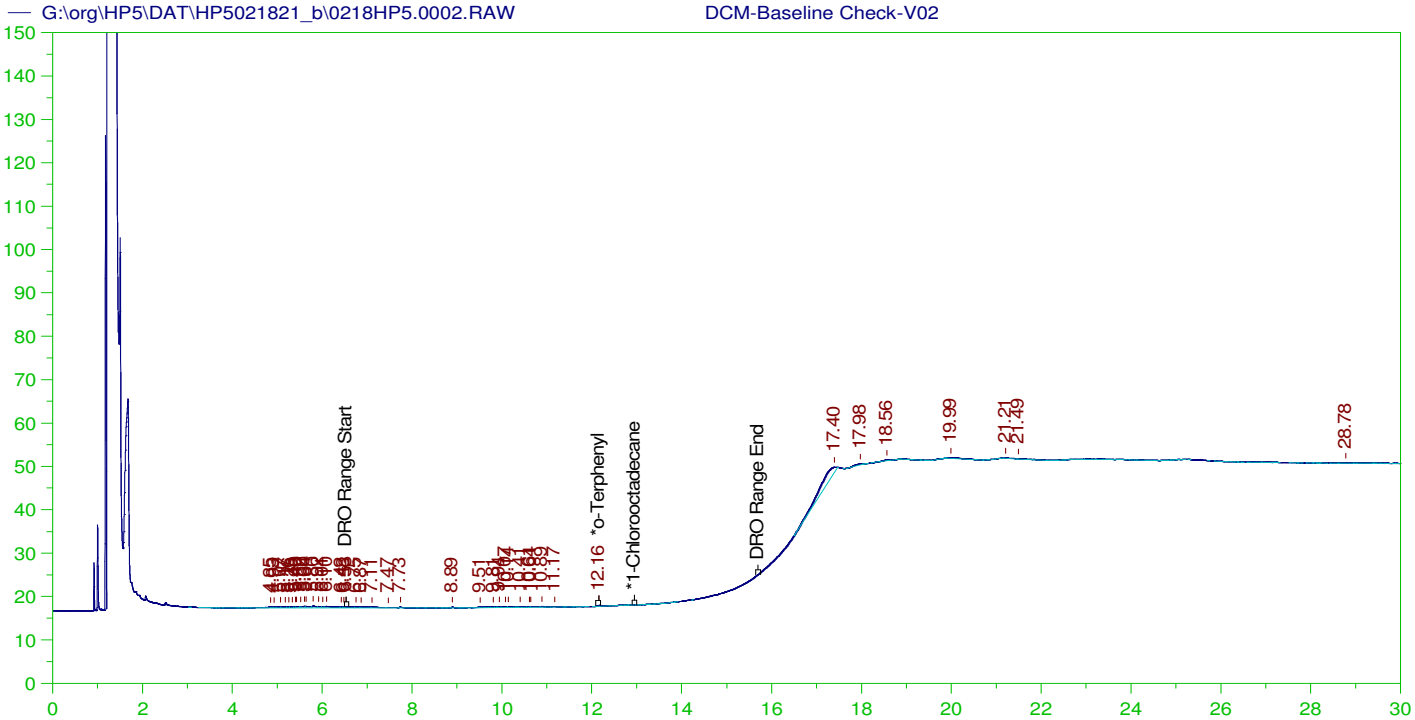
Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




G:\org\HP5\dat\HP5021821_b\Review\001_Marker_0218HP501r_CSC210212.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

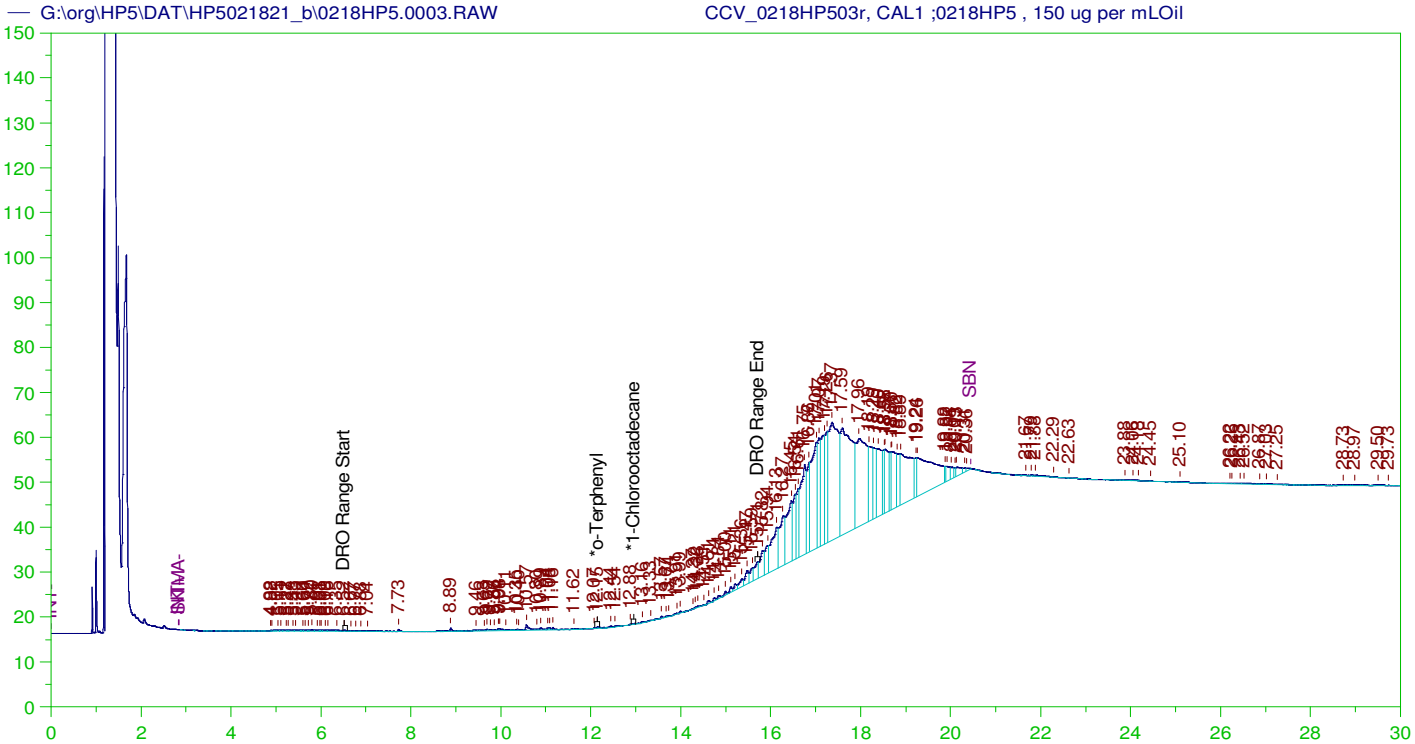
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
Date & Time Acquired: 2/18/2021 11:21:40 AM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.158 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 29.927 | 200. | . | . | - |

DRO Area:29553.31 DRO Amount: 1.003258
TEH Area:144057.3 TEH Amount: 4.890373

G:\org\HP5\dat\HP5021821_b\Review\002_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW
Date & Time Acquired: 2/18/2021 12:03:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021803-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | - |

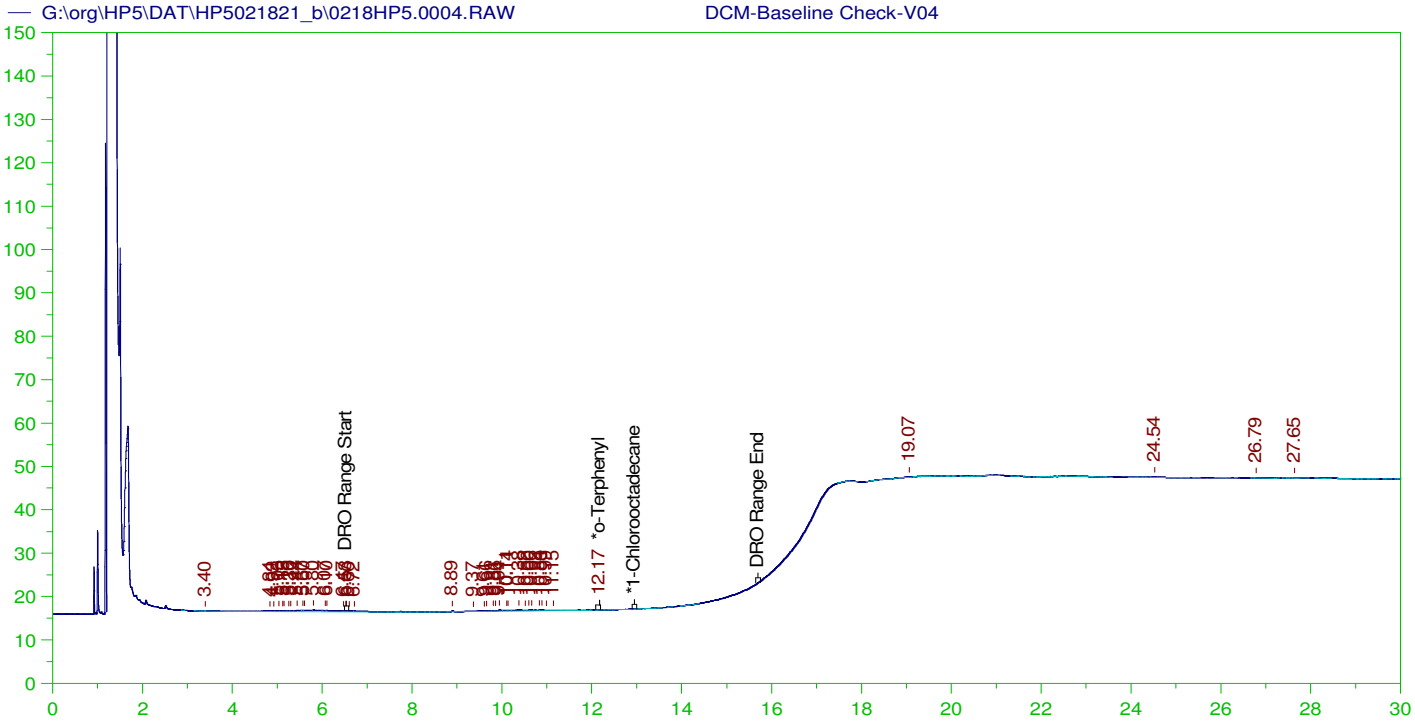
DRO Area:141843.8 DRO Amount: 4.969579
TEH Area:3766485 TEH Amount: 131.961

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 131.96 | 2.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | 85-115 |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\003_CCV_0218HP503r_DR_OIL-021803-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

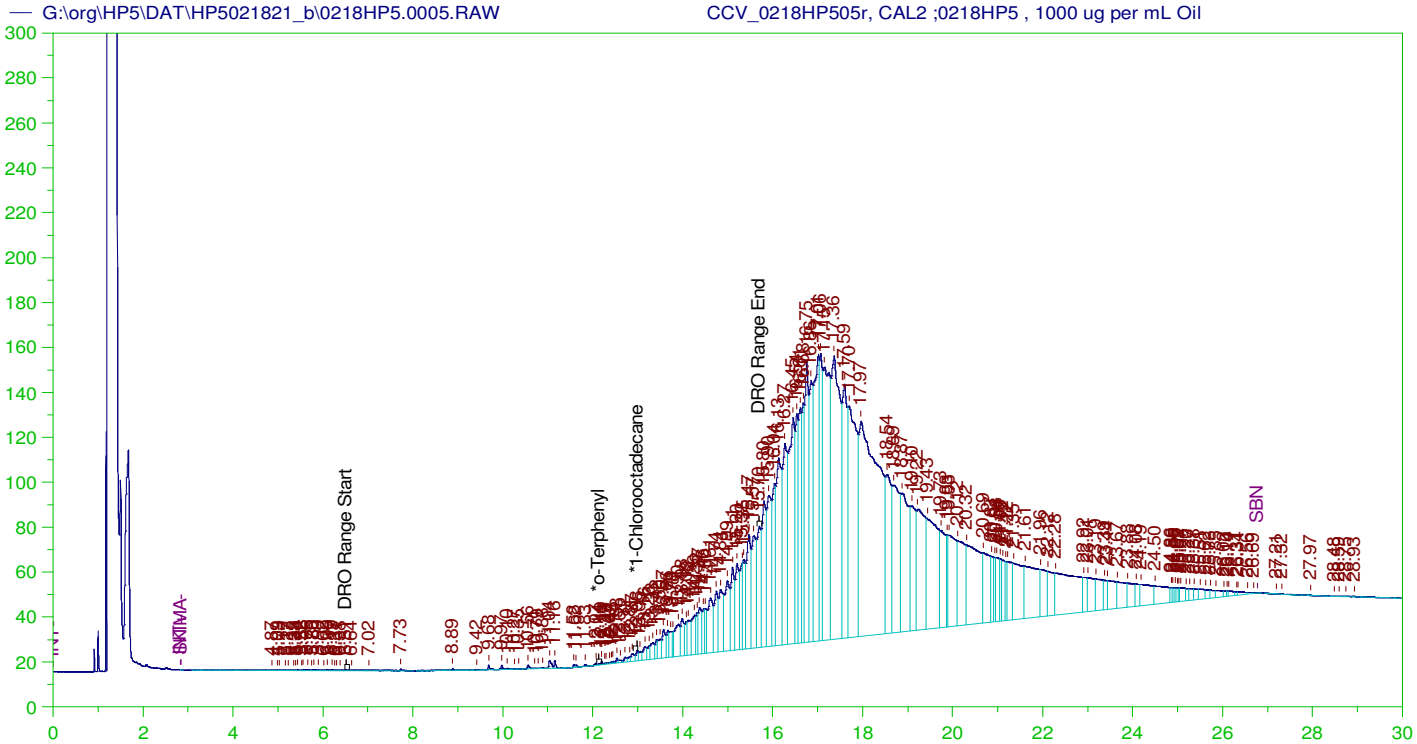
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
Date & Time Acquired: 2/18/2021 12:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.171 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.958 | 200. | . | . | - |

DRO Area:27245.38 DRO Amount: 0.9249101
TEH Area:63574.01 TEH Amount: 2.158173

G:\org\HP5\dat\HP5021821_b\Review\004_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW
Date & Time Acquired: 2/18/2021 1:27:30 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021805-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | - |

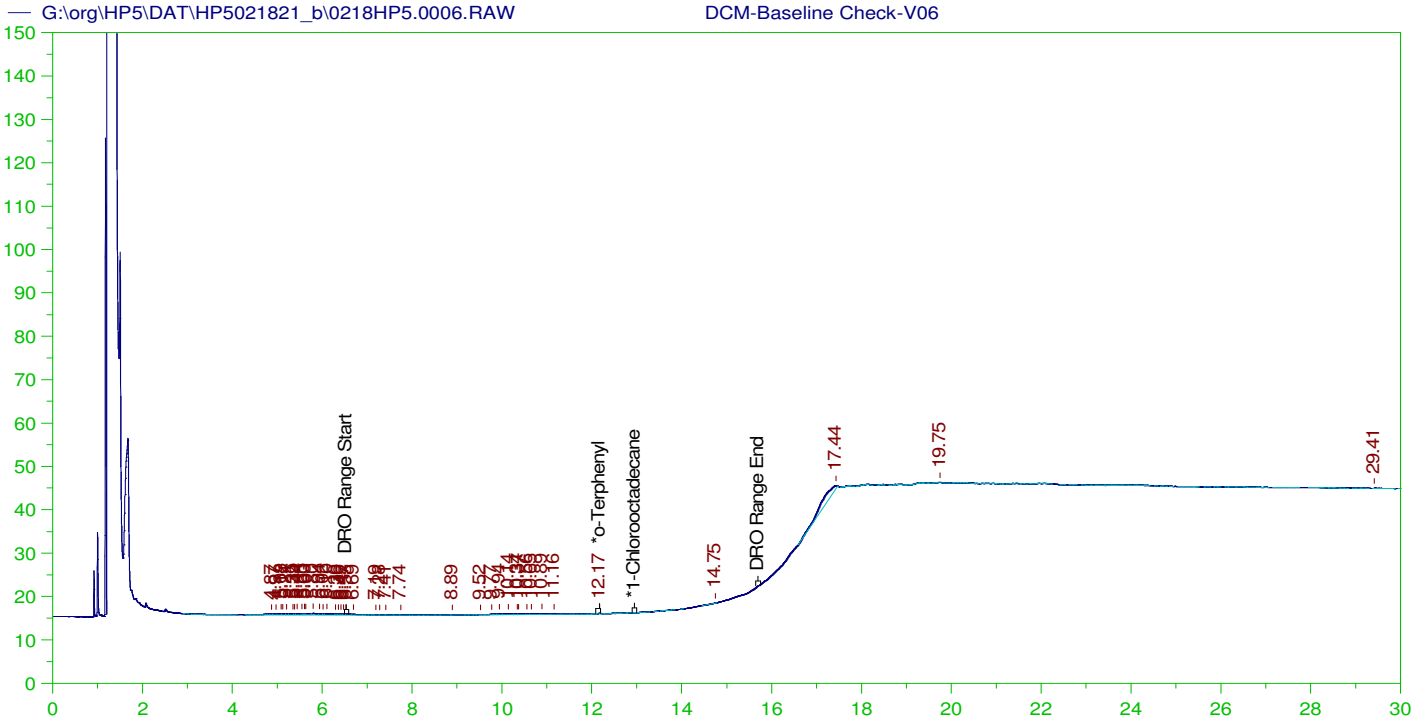
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1062.81 | 21.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | 85-115 |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\005_CCV_0218HP505r_DR_OIL-021805-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

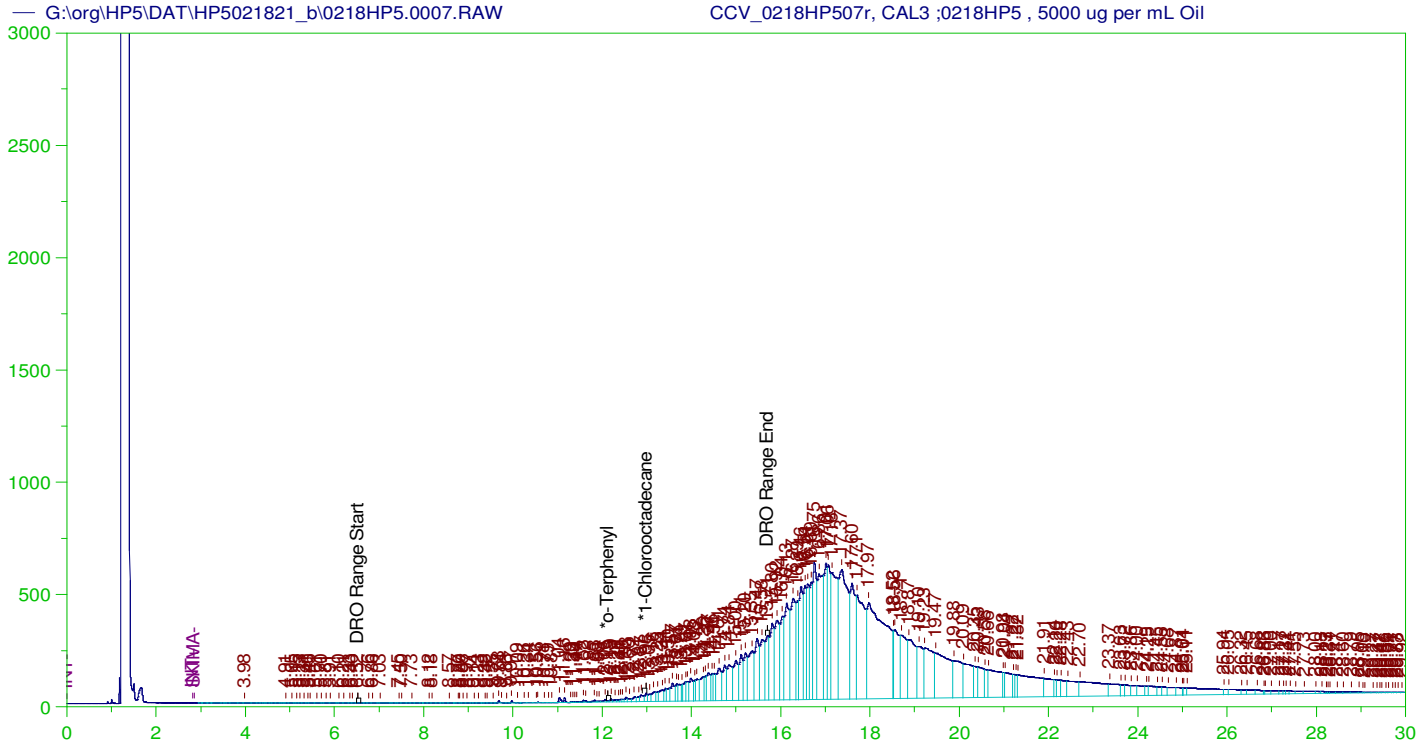
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0006.RAW
Date & Time Acquired: 2/18/2021 2:09:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:29249.25 DRO Amount: 0.9929362
TEH Area:123949.1 TEH Amount: 4.20775

G:\org\HP5\dat\HP5021821_b\Review\006_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW
Date & Time Acquired: 2/18/2021 2:51:00 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | - |

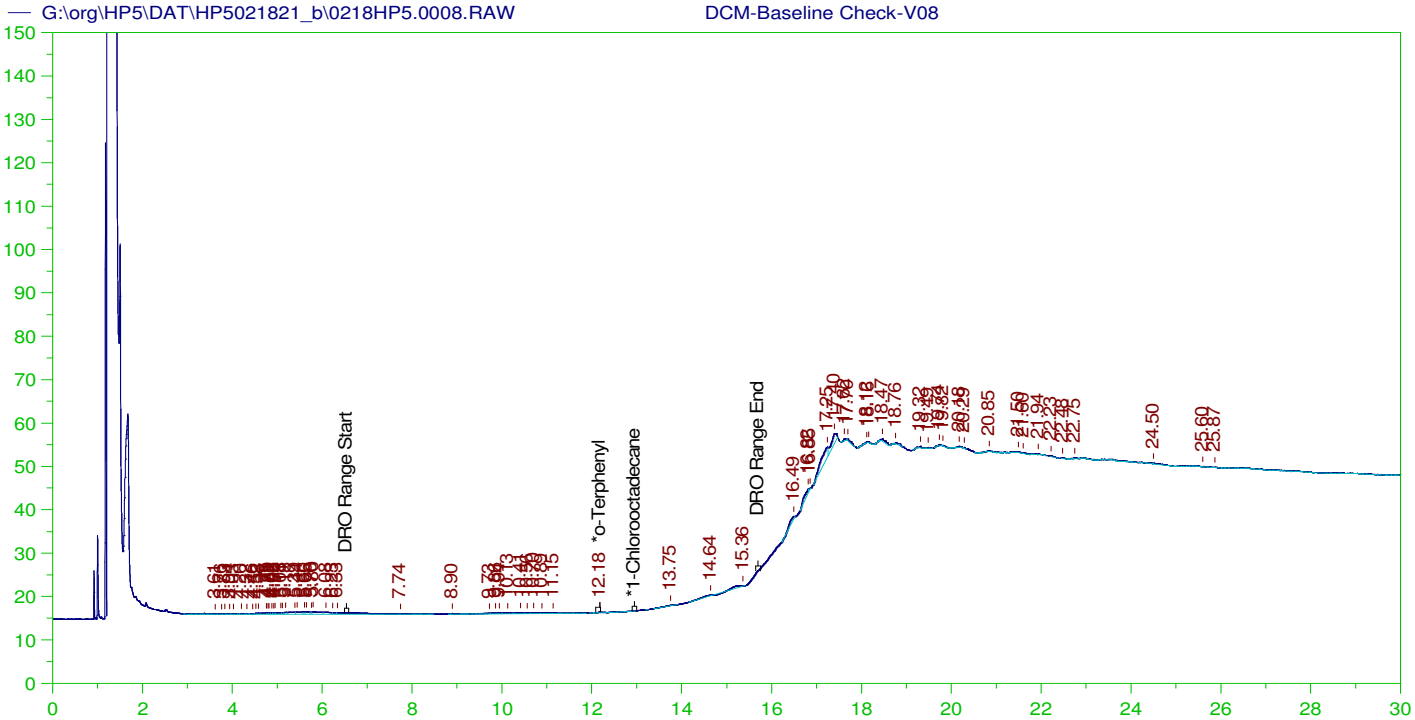
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5035.71 | 100.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\007_CCV_0218HP507r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

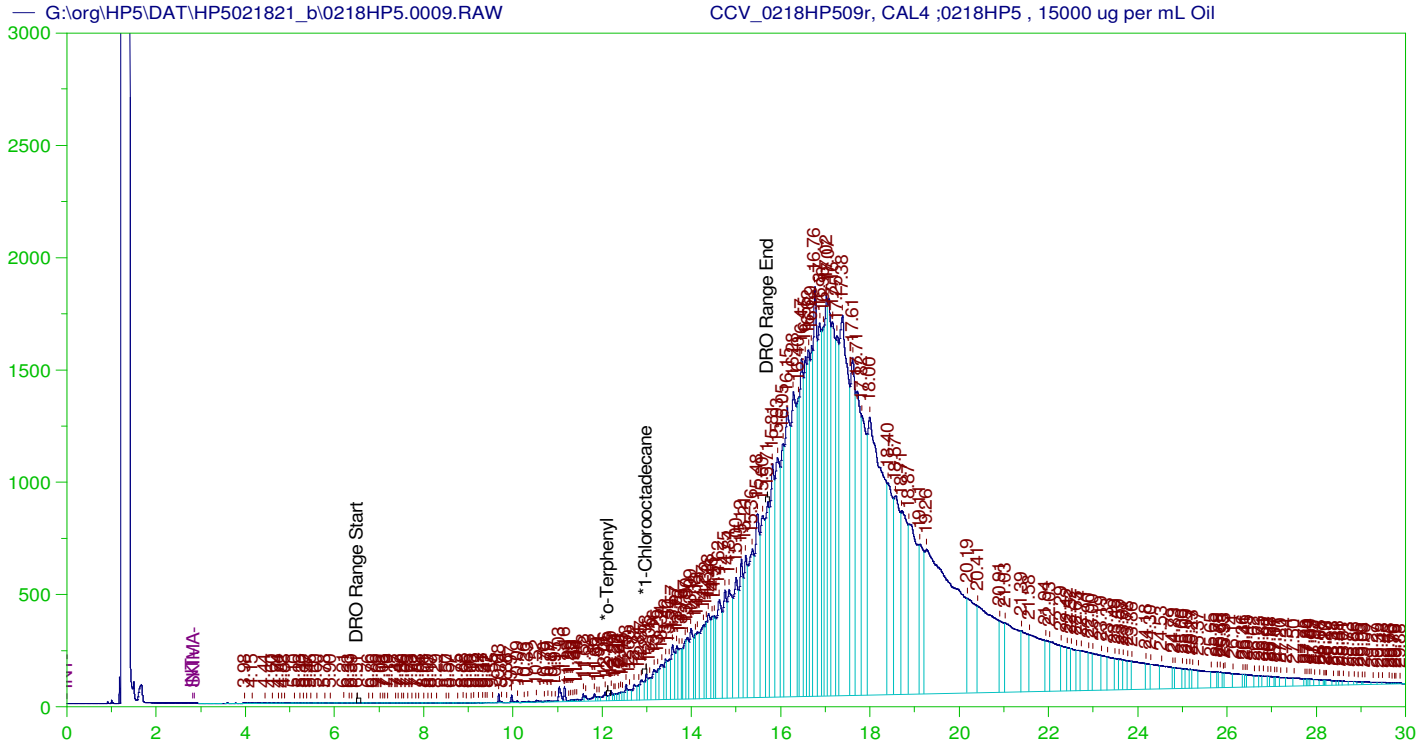
Sample Name: DCM-Baseline Check-V08
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0008.RAW
Date & Time Acquired: 2/18/2021 3:32:46 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .026 | .01 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:30717.07 DRO Amount: 1.042765
TEH Area:223672.8 TEH Amount: 7.593112

G:\org\HP5\dat\HP5021821_b\Review\008_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW
Date & Time Acquired: 2/18/2021 4:14:34 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | - |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | - |

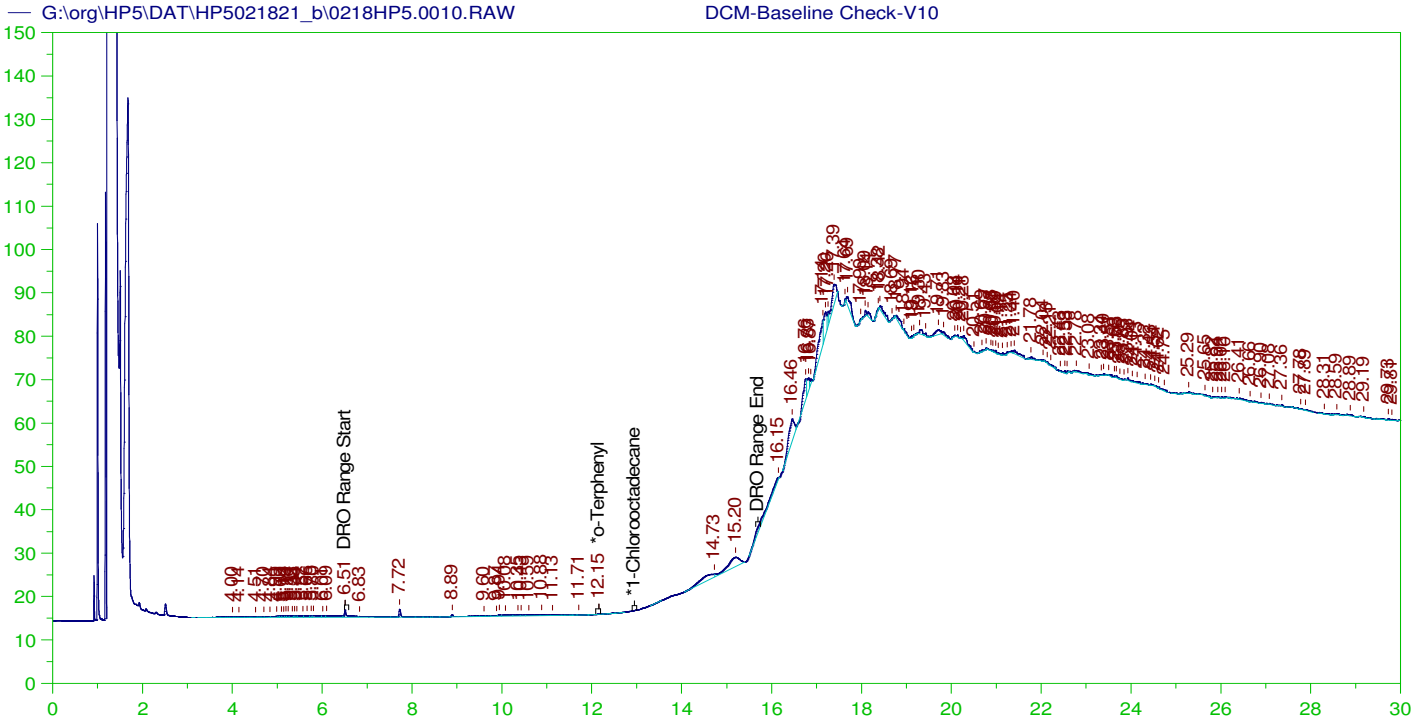
DRO Area:6.73131E+07 DRO Amount: 2358.354
TEH Area:4.193721E+08 TEH Amount: 14692.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14692.95 | 293.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | 85-115 |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\009_CCV_0218HP509r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

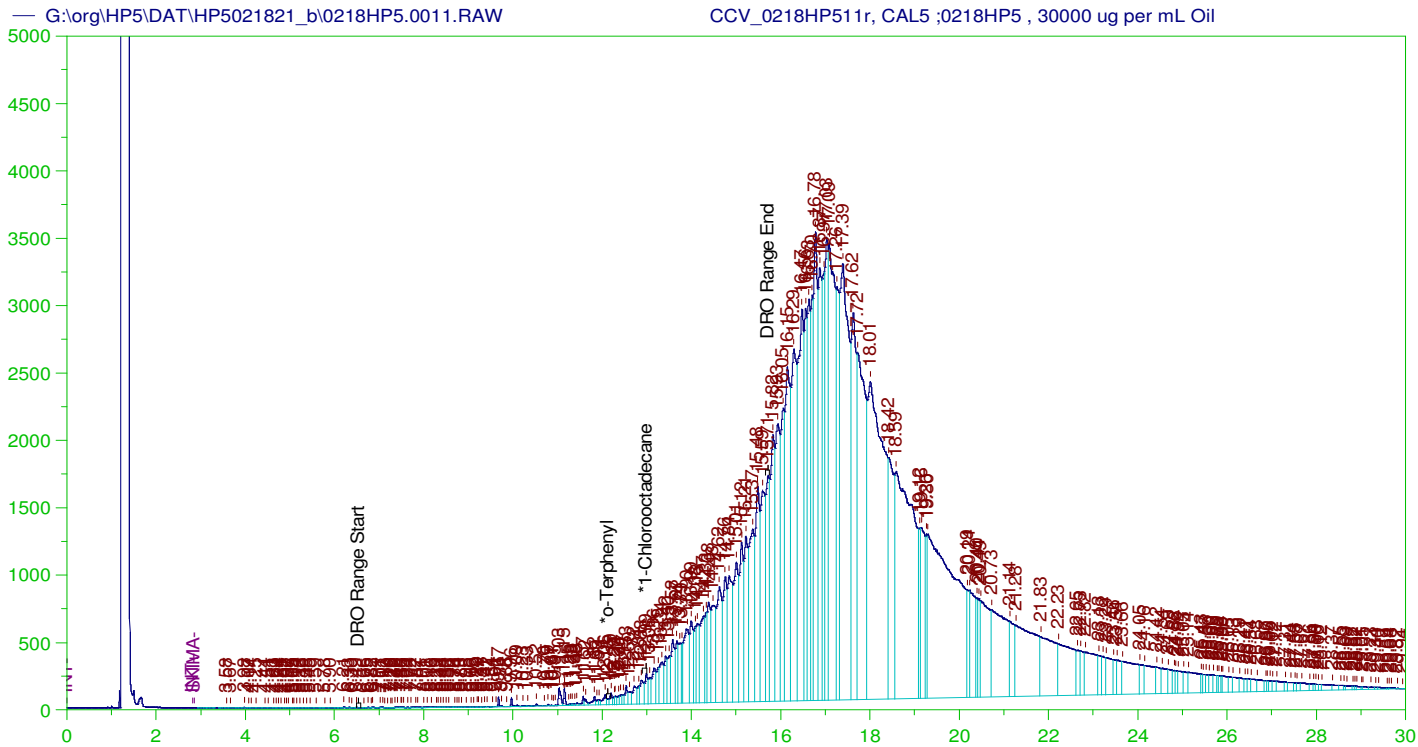
Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0010.RAW
Date & Time Acquired: 2/18/2021 4:56:16 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.153 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.957 | 200. | . | . | - |

DRO Area:108629.1 DRO Amount: 3.687675
TEH Area:543425.7 TEH Amount: 18.44789

G:\org\HP5\dat\HP5021821_b\Review\010_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW
Date & Time Acquired: 2/18/2021 5:38:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | - |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | - |

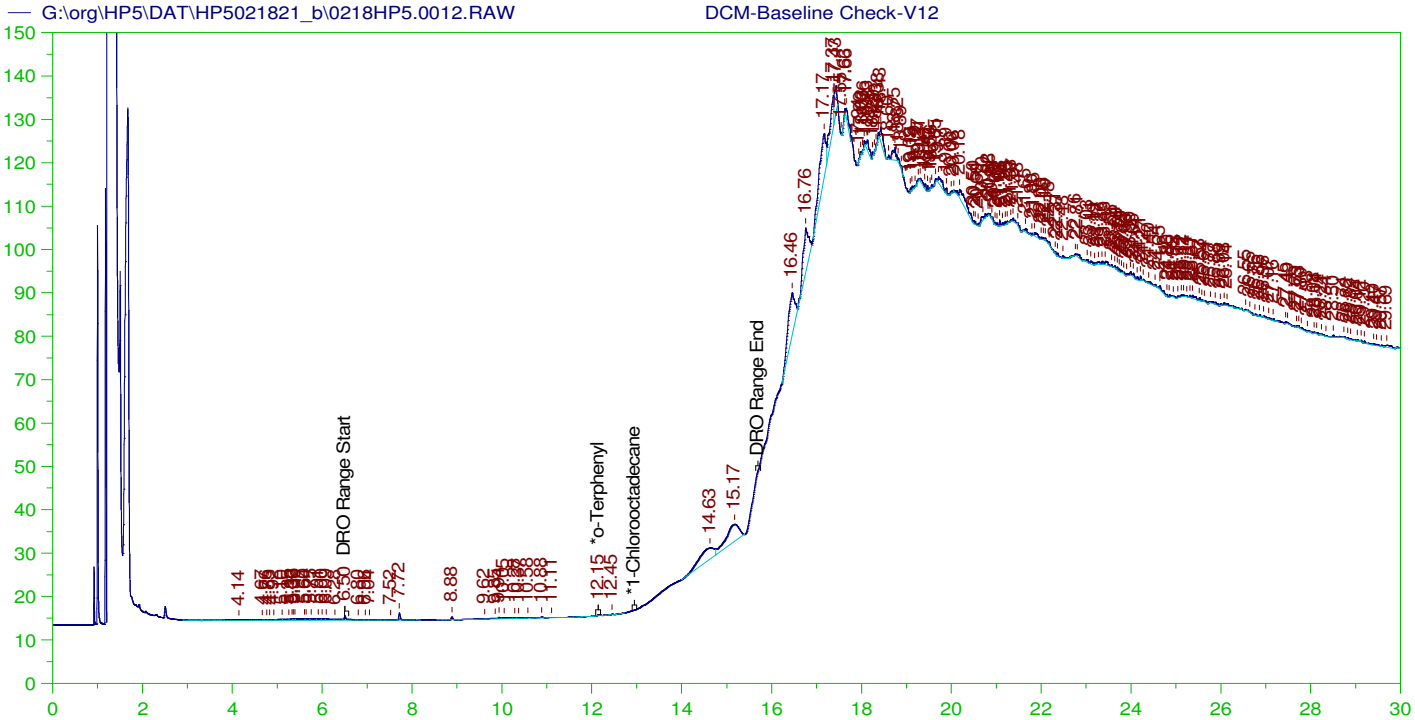
DRO Area:1.319327E+08 DRO Amount: 4622.338
TEH Area:8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 28207.69 | 564.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | 85-115 |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\011_CCV_0218HP511r_DR_OIL-021811-AA-L0.xls



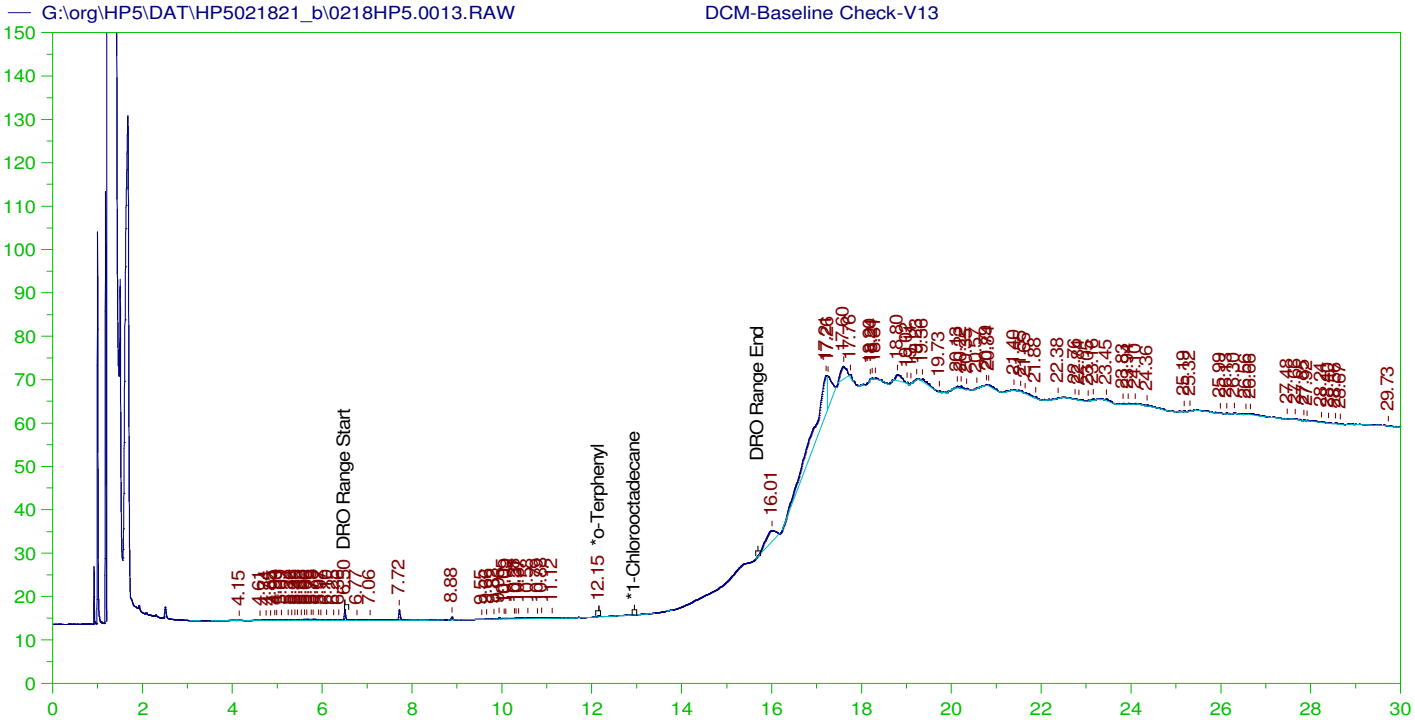

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0012.RAW
Date & Time Acquired: 2/18/2021 6:20:48 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:186033.1 DRO Amount: 6.31534
TEH Area:888262.2 TEH Amount: 30.1542




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

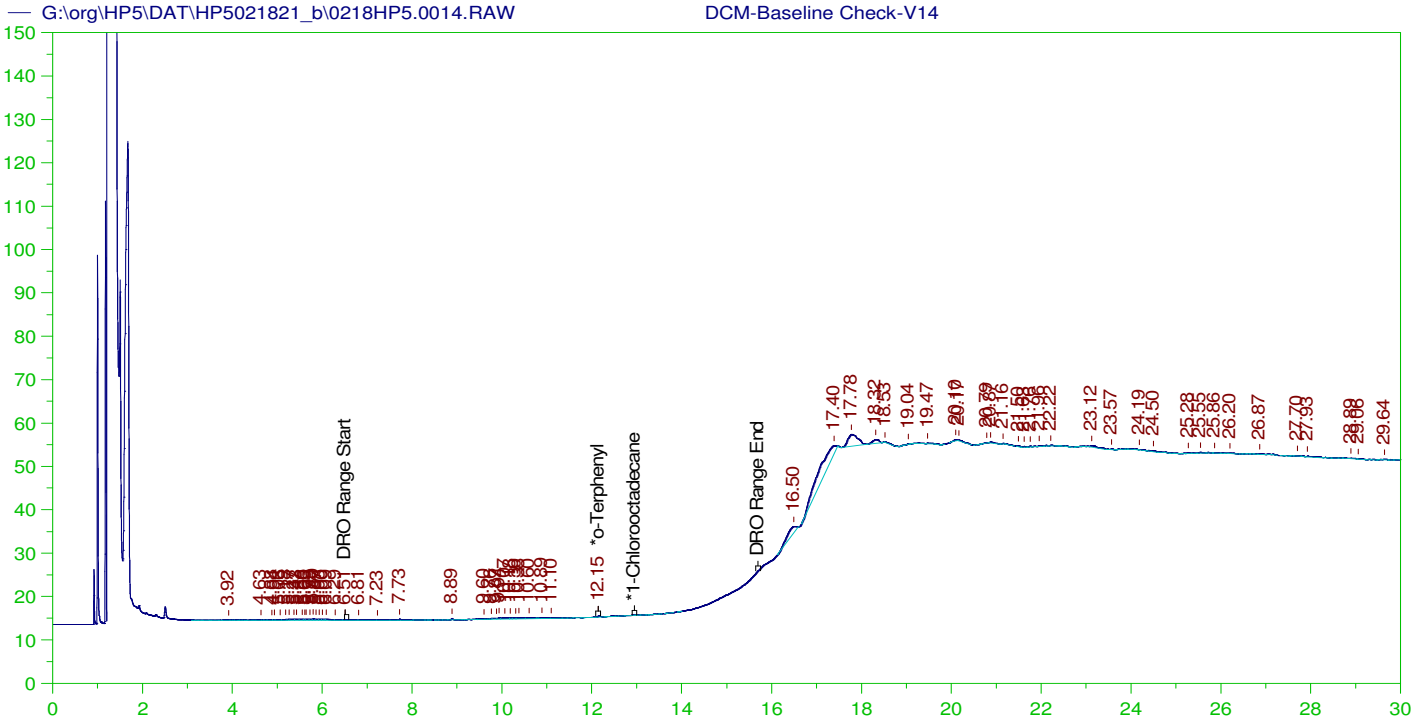
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0013.RAW
Date & Time Acquired: 2/18/2021 7:03:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.152 | 200. | .033 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:40824.55 DRO Amount: 1.385888
TEH Area:476705.3 TEH Amount: 16.18291

G:\org\HP5\dat\HP5021821_b\Review\013_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

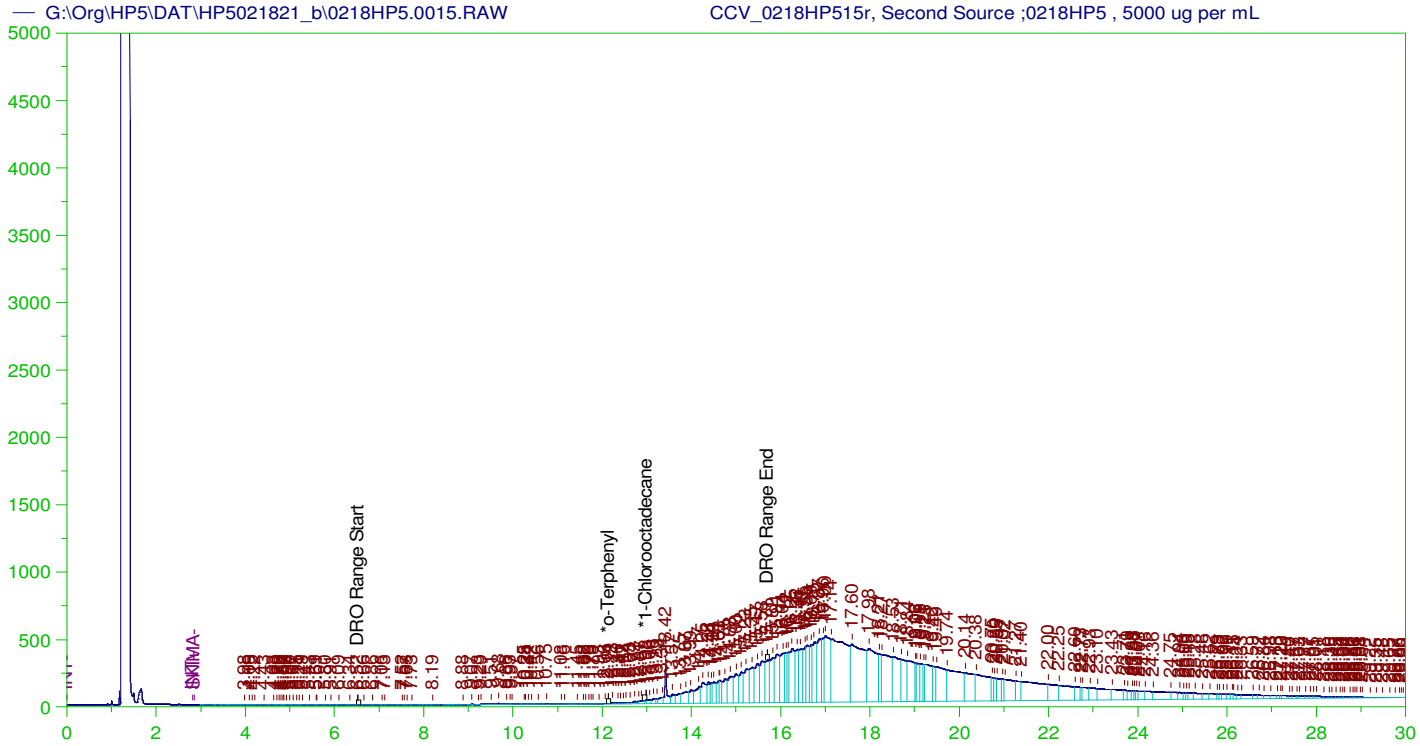
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0014.RAW
Date & Time Acquired: 2/18/2021 7:45:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.148 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.949 | 200. | . | . | - |

DRO Area:30445.24 DRO Amount: 1.033537
TEH Area:297634.4 TEH Amount: 10.10392

G:\org\HP5\dat\HP5021821_b\Review\014_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL
Raw File: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW
Date & Time Acquired: 2/18/2021 8:27:37 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 - |

DRO Area:2.558549E+07 DRO Amount: 0.8964027
TEH Area:1.562544E+08 TEH Amount: 5.474465

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5.47 | .11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | | 85-115 |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\015_CCV_0218HP515r_DR_OIL-021811-AA-L0.xls

| Write Sequence Data File | Sample Nan Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.09.20 13:12:26 -06:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/11/2021 11:55:04 A**

Prep Batch **160213** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/12/2021 2:15:00 P**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MB-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| Start time: 12:16 PM, 10/11/2021. End time: 10/12/2021 at 7:00 AM. SGT was carried out on remainder of 0.9 mL sample by ALN on 10/14/2021. | | | | | | | | | | |
| LCS-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| LCS-RRO-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| All bottles were completely used and disposed of. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001A | Ground Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000957 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001AMS | Ground Water | 2 | 500 | 0 | 0 | 1.00 | 0.002 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001AMSD | Ground Water | 2 | 500 | 0 | 0 | 1.00 | 0.002 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2.Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002A | Ground Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002AMS-RRO | Ground Water | 2 | 515 | 0 | 0 | 1.00 | 0.00194 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002AMSD-RRO | Ground Water | 2 | 515 | 0 | 0 | 1.00 | 0.00194 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100824-001A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Client said to proceed with out of hold sample. | | | | | | | | | | |
| B21100827-003A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100828-001A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Lines 12-13 Start time: 12:47 PM, 10/11/2021. End time: 10/12/2021 at 7:00 AM. | | | | | | | | | | |
| B21100828-002A | Drinking Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100834-001A | Aqueous | 2 | 1010 | 0 | 0 | 1.00 | 0.00099 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Lines 14-16 Start time: 3:21 PM, 10/11/2021. End time: 10/12/2021 at 9:25 AM | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14354 | Dichloromethane EC119 | 8/3/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 10/10/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | all QC | 5g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/11/2021 11:55:04 A**

Prep Batch **160213** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/12/2021 2:15:00 P**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| B21100834-002A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| B21100834-003A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/11/2021 | 10/12/2021 |

| Number | Reagent Name | Exp Date | |
|---|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 | |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 | |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 | |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 | |
| 14354 | Dichloromethane EC119 | 8/3/2023 | |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 10/10/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | all QC | 5g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*13-Oct-21*

**Run ID** GCFID-HP5-B_211011B

**Run Start Date:** 10/11/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767356 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/13/2021 12:1 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.059366 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2131862 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767357 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 12:5 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.017043 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.226186 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767358 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 1:38: | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.79665 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 105% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.35982 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.220412 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767359 | LCS-160213 | HC-8015-DRO- | LCS-DOD | | 10/13/2021 3:47: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.25644 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 102% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.46345 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 110% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2109474 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767360 | MB-160213 | HC-8015-DRO- | MBLK | | 10/13/2021 4:29: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0749 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.221817 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 111% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767361 | B21100824-001 | HC-8015-DRO- | SAMP | | 10/13/2021 5:12: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0313208 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.190907 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 100% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.190907 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767362 | B21100827-001 | HC-8015-DRO- | SAMP | | 10/13/2021 6:38: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.2248985 | | 0 | 0 | 0 | 0.0372273 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.17043886 | | 0 | 0 | 0 | 0.0841203 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.6724572 | | 0 | 0 | 0 | 0.0716793 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1375347 | | 0.1914 | 0 | 0 | 0.0004106 | 0.002 | 0 | 72% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767363 | B21100827-002 | HC-8015-DRO- | SAMP | | 10/13/2021 8:47: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.2302286 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.16414309 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.6783934 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1010864 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 53% | 56 | 125 | 0% | S |
| TEH(Oil Range) | X | mg/L | | 0.44483149 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767364 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/13/2021 10:1 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3211.686 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3928.242 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 207.1025 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103551% | 50 | 150 | 0% | S |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3211.686 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

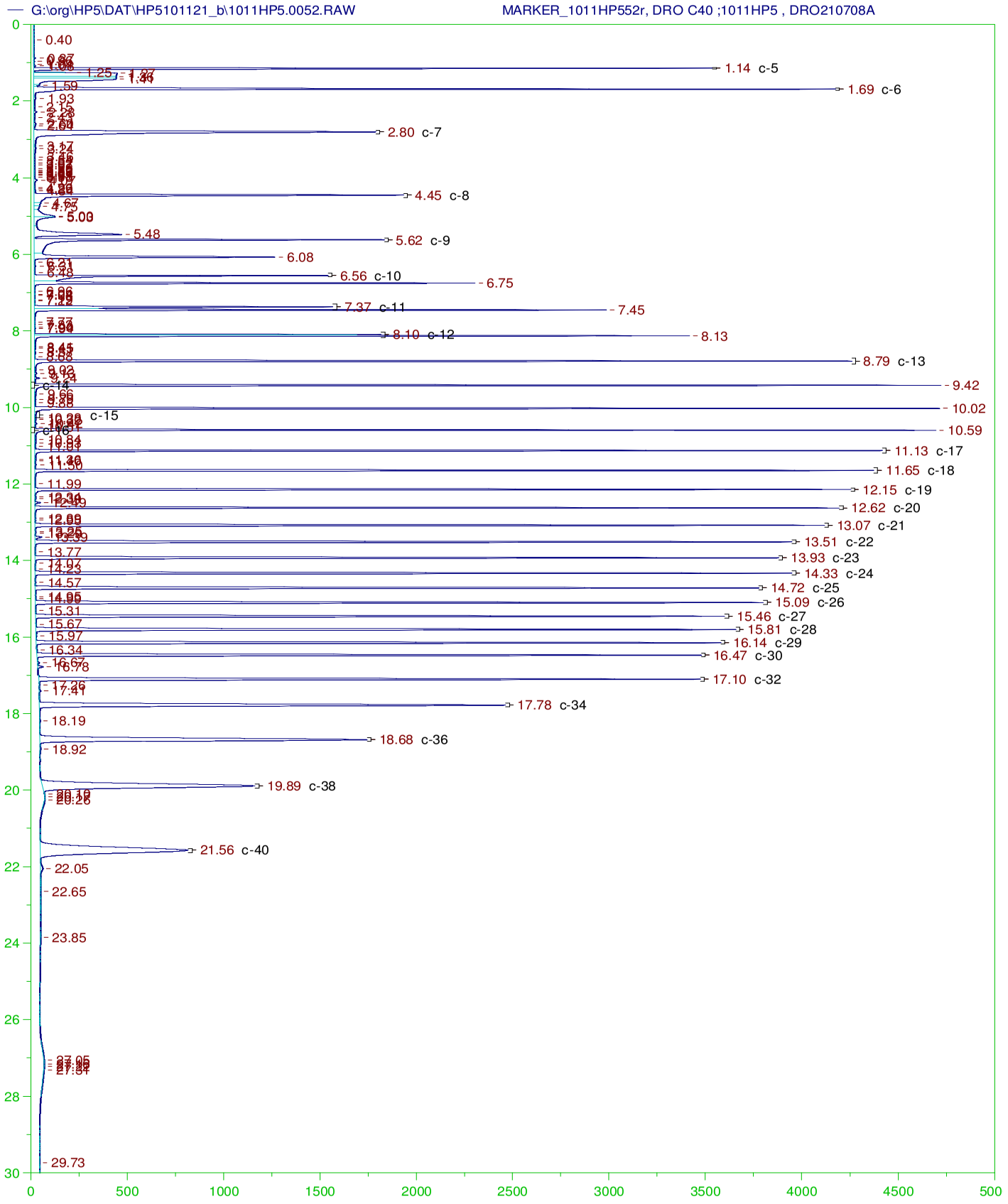
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767365 | CCV_1011HP56 | HC-8015-DRO- | CCV | | 10/13/2021 10:5 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.045149 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 101% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2240021 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 112% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767366 | CCV_1011HP56 | HC-8015-DRO- | CCV | | 10/13/2021 11:3 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.93329 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.4674 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 103% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2084819 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.56r | DCM-Baseline Check-V56 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.57r | DCM-Baseline Check-V57 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.58r | LCS-160213 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.59r | MB-160213 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.60r | B21100824-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.61r | DCM-Baseline Check-V61 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.62r | B21100827-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1045 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.64r | DCM-Baseline Check-V64 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.65r | B21100827-002A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.66r | MARKER_1011HP566r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.67r | MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.68r | CCV_1011HP568r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.69r | CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\org\HP5\DAT\HP5101121_b\1011HP5.0052.RAW
MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A
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1.14 c-5
1.69 c-6
2.80 c-7
4.45 c-8
5.48
5.62 c-9
6.08
6.56 c-10
6.75
7.37 c-11
7.45
8.10 c-12
8.13
8.79 c-13
9.42
10.02
10.59
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.09 c-26
15.46 c-27
15.81 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
19.89 c-38
21.56 c-40
29.73
0
500
1000
1500
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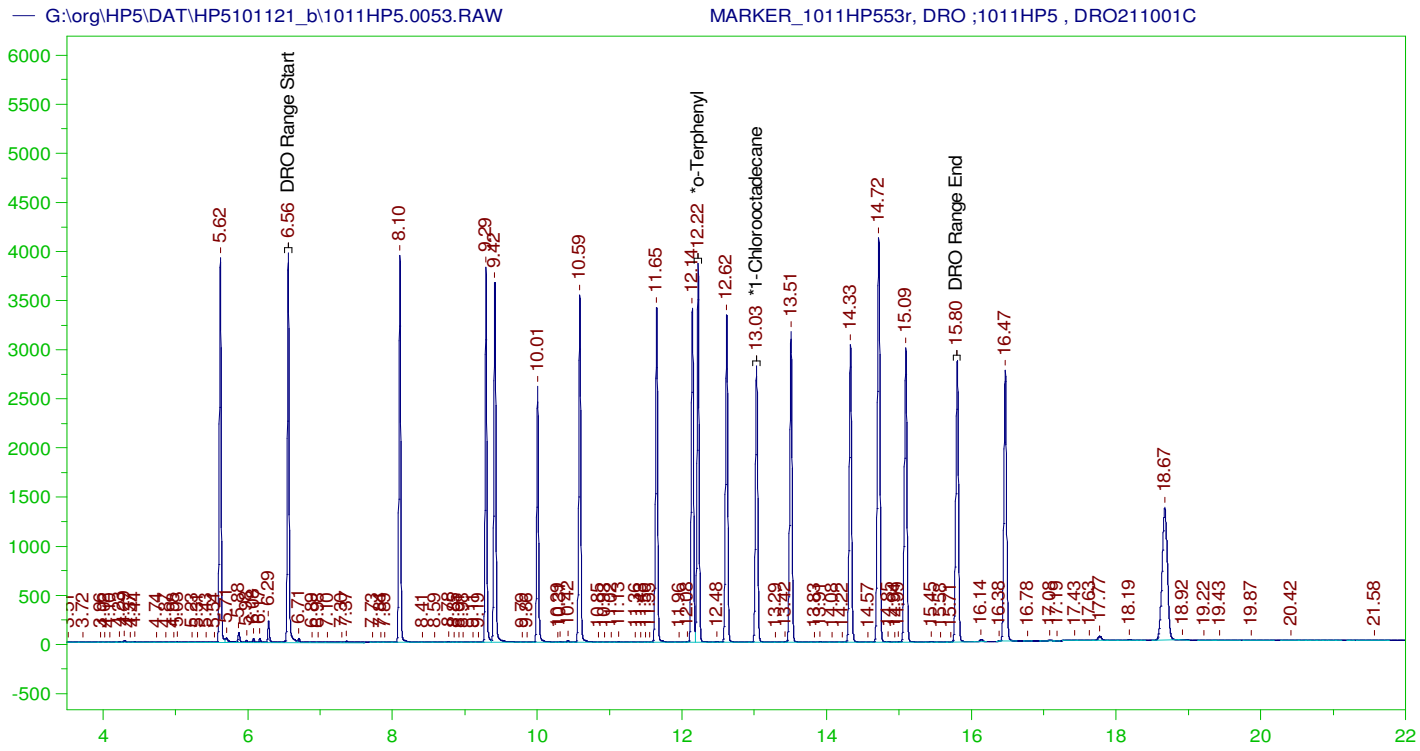



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

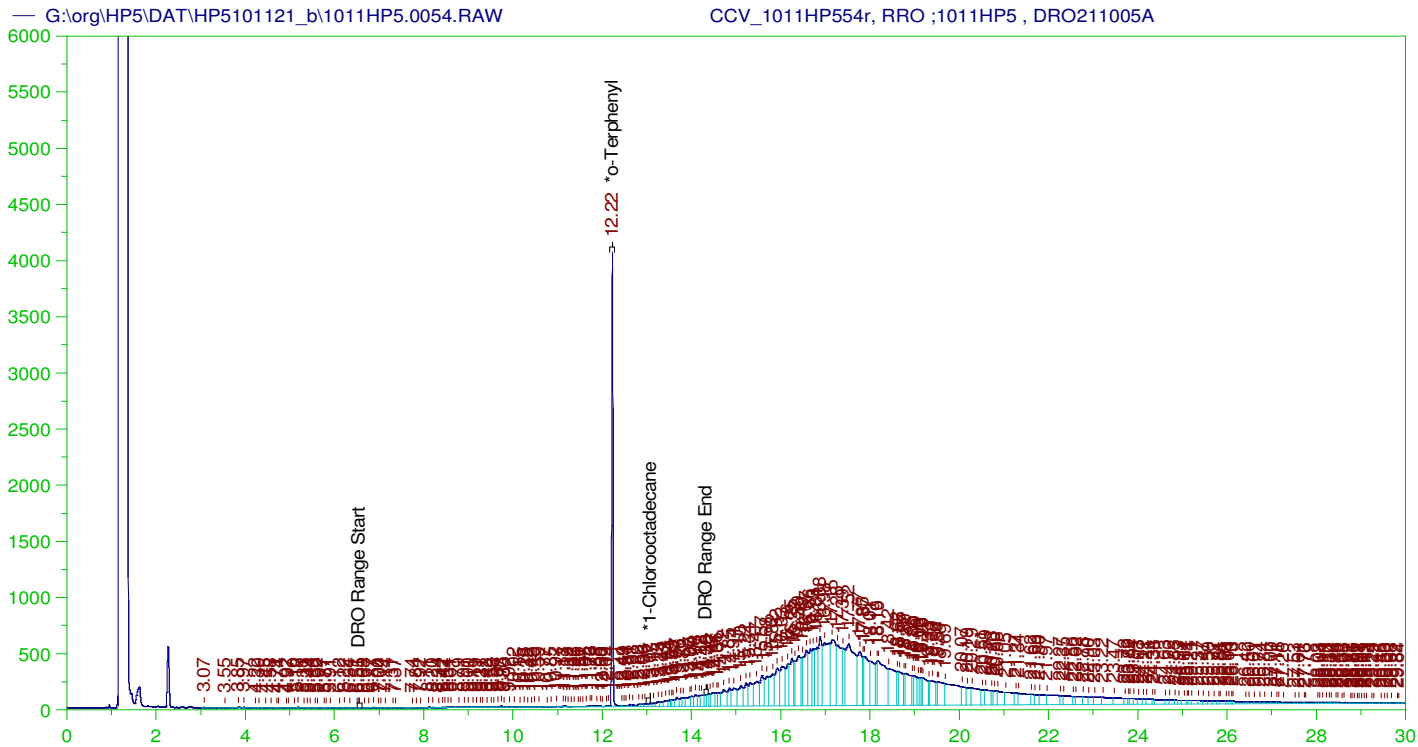
Sample Name: MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0053.RAW
Date & Time Acquired: 10/13/2021 12:12:14 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 213.186 | 106.59 | - |
| *1-Chlorooctadecane | 13.031 | 200. | 172.732 | 86.37 | - |

DRO Area:9.775298E+07 DRO Amount: 3318.46
TEH Area:1.195781E+08 TEH Amount: 4059.366

G:\org\HP5\dat\HP5101121_b\Review\053_MARKER_1011HP553r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | - |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | - |

DRO Area:6639596 DRO Amount: 232.6221
TEH (Oil Range) Area:1.431985E+08 TEH (Oil Range) Amount: 5017.043

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5017.04 | 100.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | 85-115 |

AMN 10/20/2021

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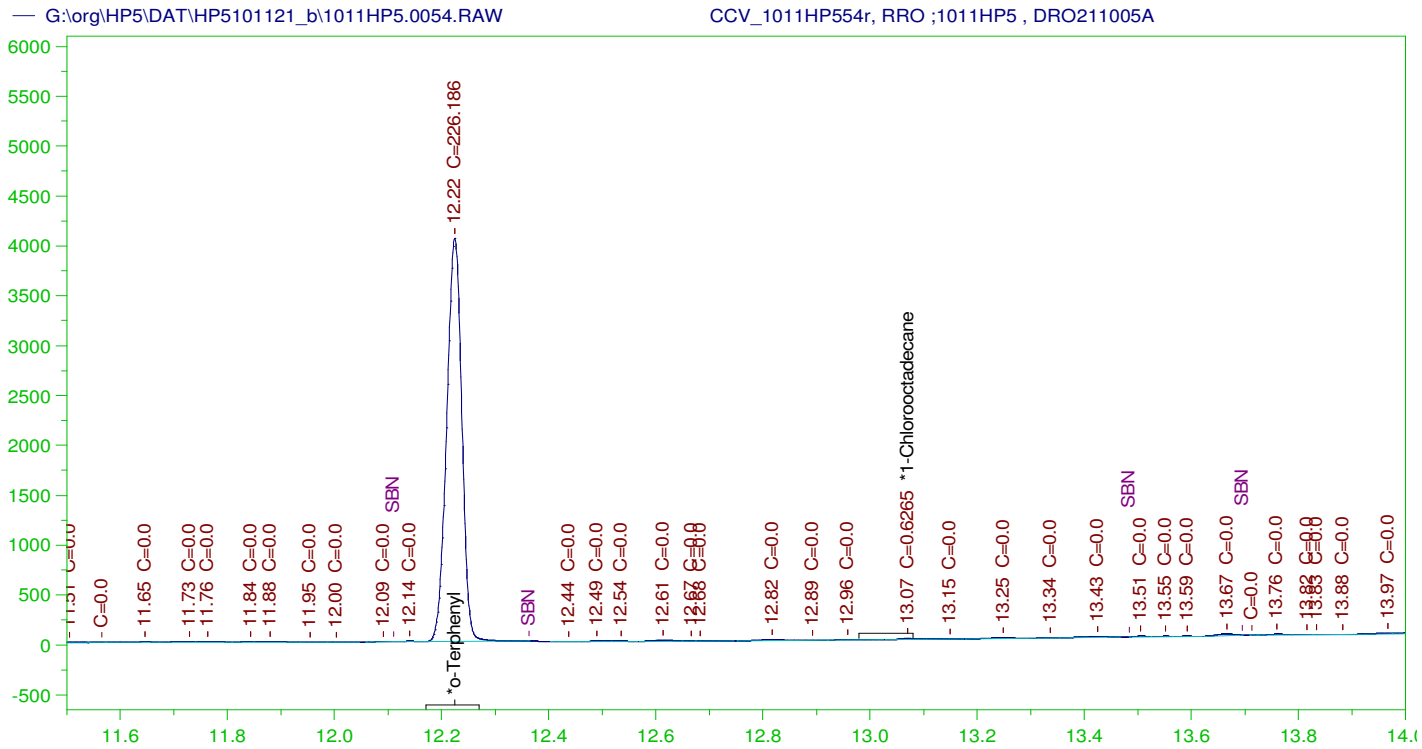


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | - |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | - |

DRO Area:914620.3 DRO Amount: 32.04426
TEH Area:2179492 TEH Amount: 76.35976

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 76.36 | 1.53 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | 85-115 |

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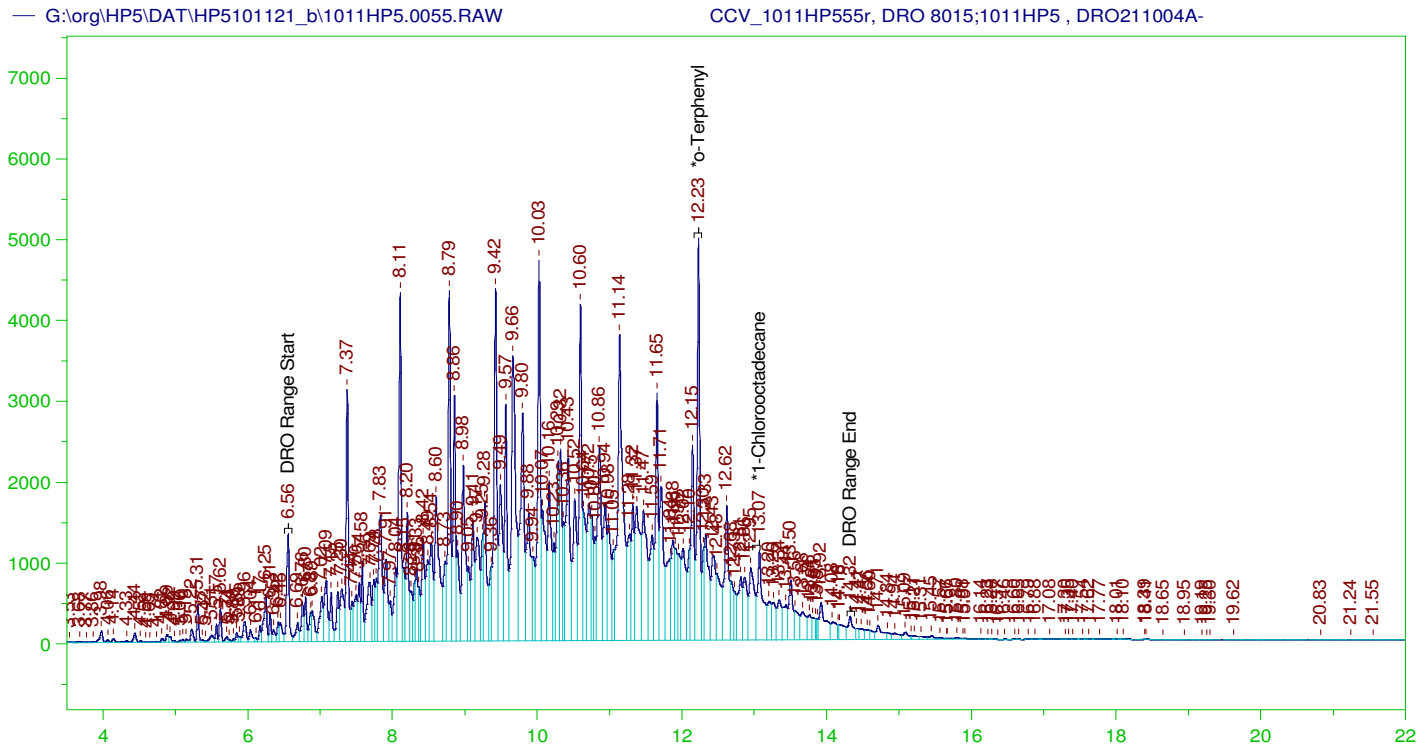


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | - |

DRO Area:4.653271E+08 DRO Amount: 15796.65
TEH Area:4.819167E+08 TEH Amount: 16359.82

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16359.82 | 109.07 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | 85-115 |

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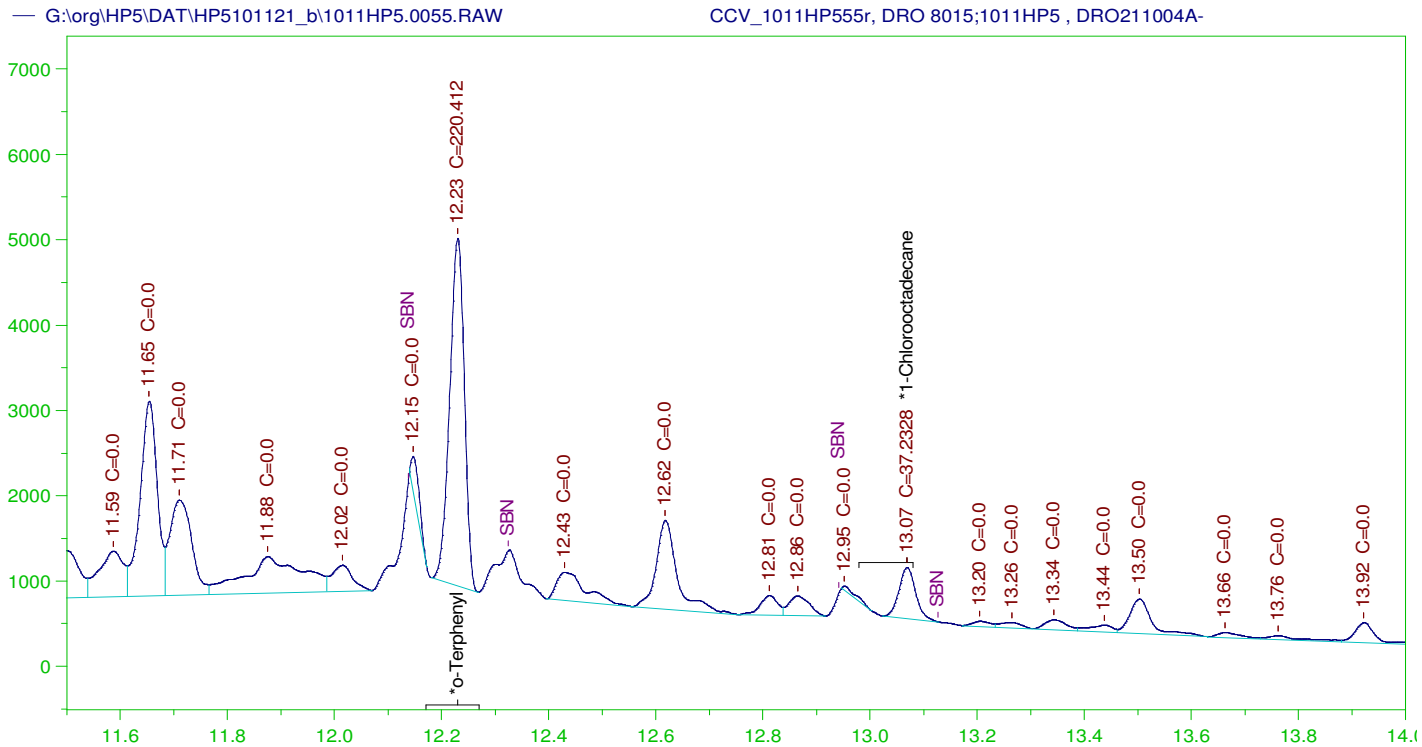


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | - |

DRO Area:2.582346E+08 DRO Amount: 8766.394
TEH Area:2.681562E+08 TEH Amount: 9103.206

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9103.21 | 60.69 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | 85-115 |

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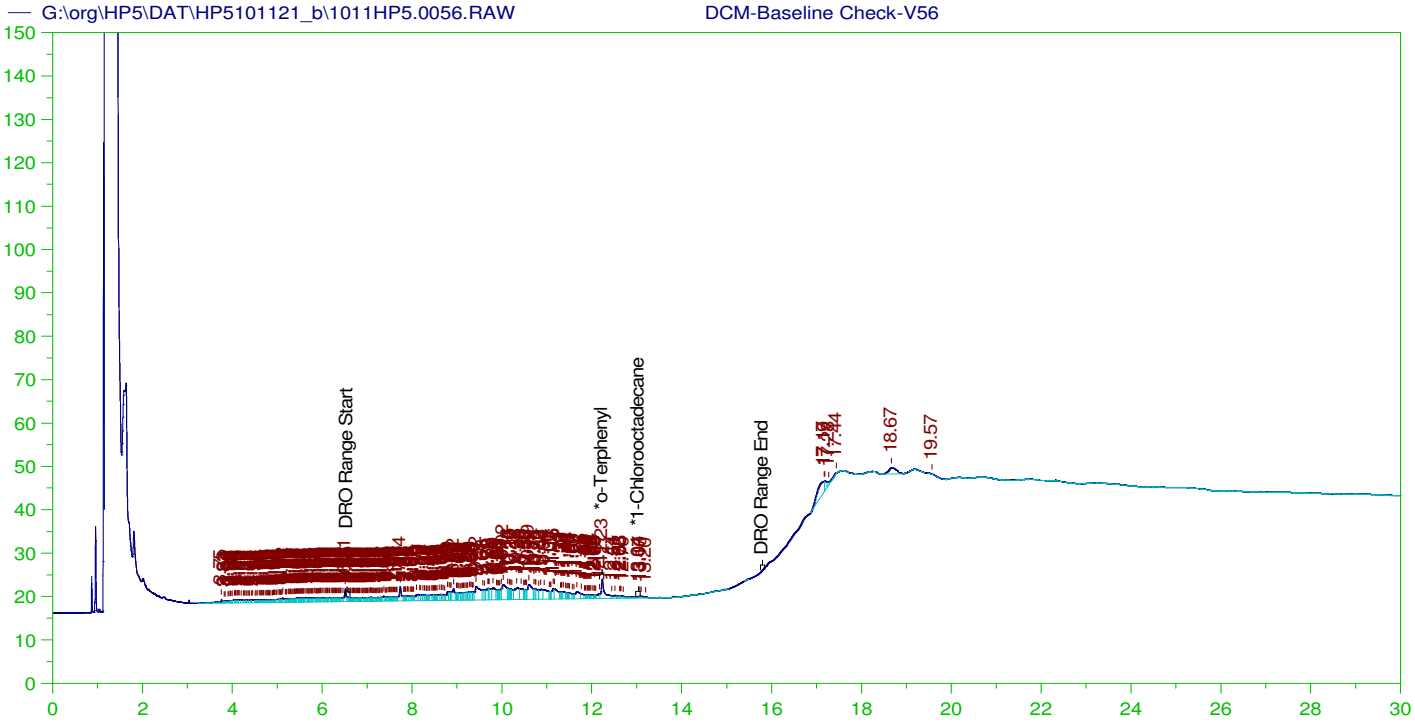


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V56
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0056.RAW
Date & Time Acquired: 10/13/2021 2:21:24 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | .663 | .33 | - |
| *1-Chlorooctadecane | 13.04 | 200. | .027 | .01 | - |

DRO Area:569787.8 DRO Amount: 19.34282
TEH Area:773369.7 TEH Amount: 26.25389

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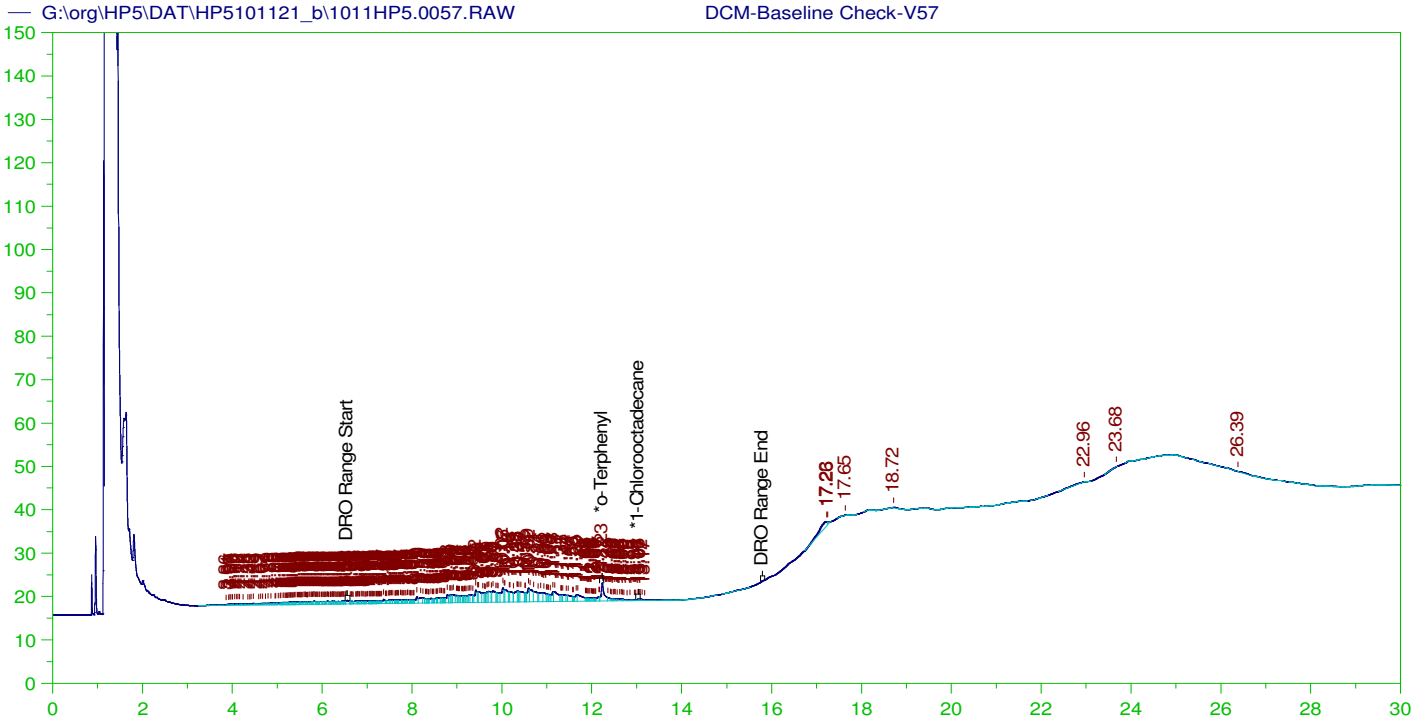


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V57
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0057.RAW
Date & Time Acquired: 10/13/2021 3:04:13 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | .559 | .28 | - |
| *1-Chlorooctadecane | 13.035 | 200. | .033 | .02 | - |

DRO Area:519320.5 DRO Amount: 17.62959
TEH Area:643196.8 TEH Amount: 21.83486

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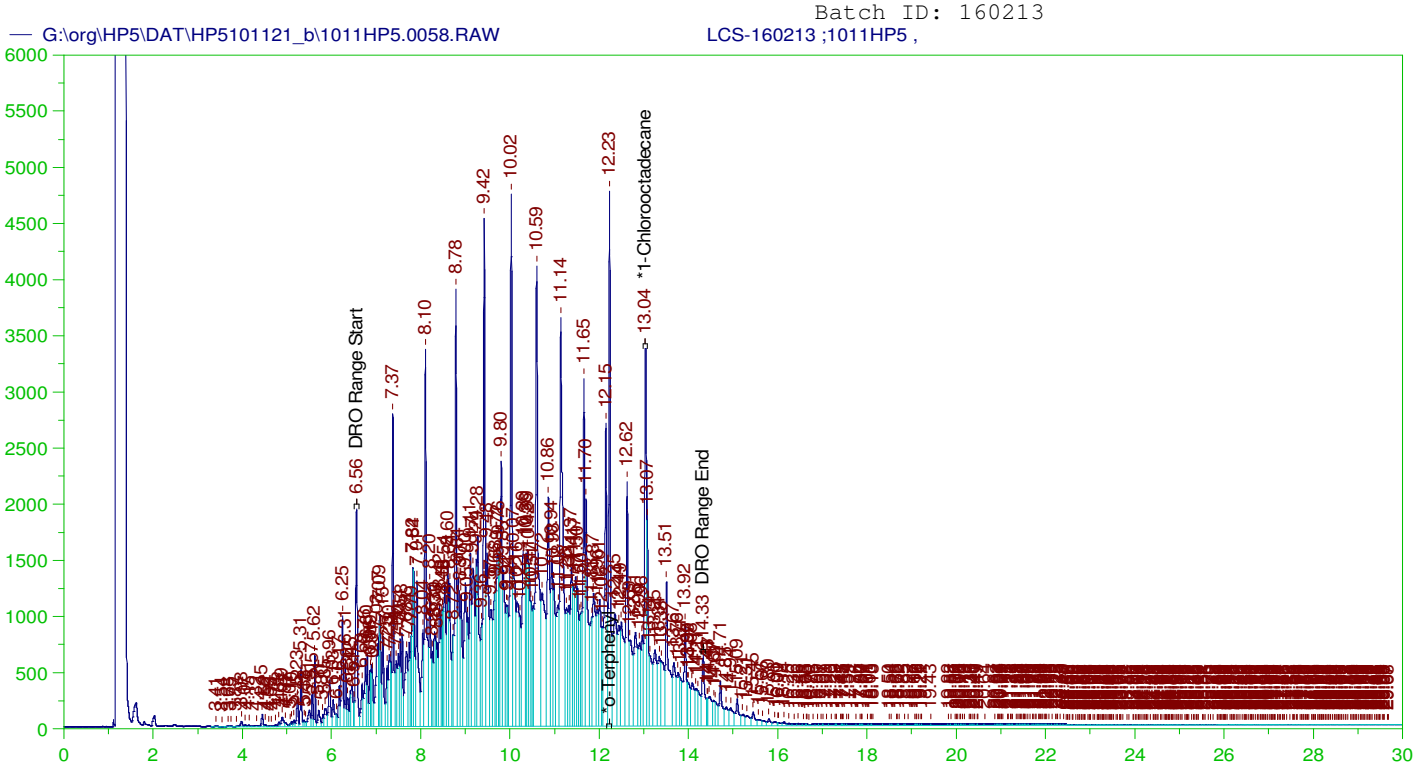
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0058.RAW
Date & Time Acquired: 10/13/2021 3:47:06 AM
Method File: G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .364 | 181.98 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .265 | 132.56 | - |

DRO Area:4.494139E+08 DRO Amount: 15.25644
TEH Area:4.849694E+08 TEH Amount: 16.46345

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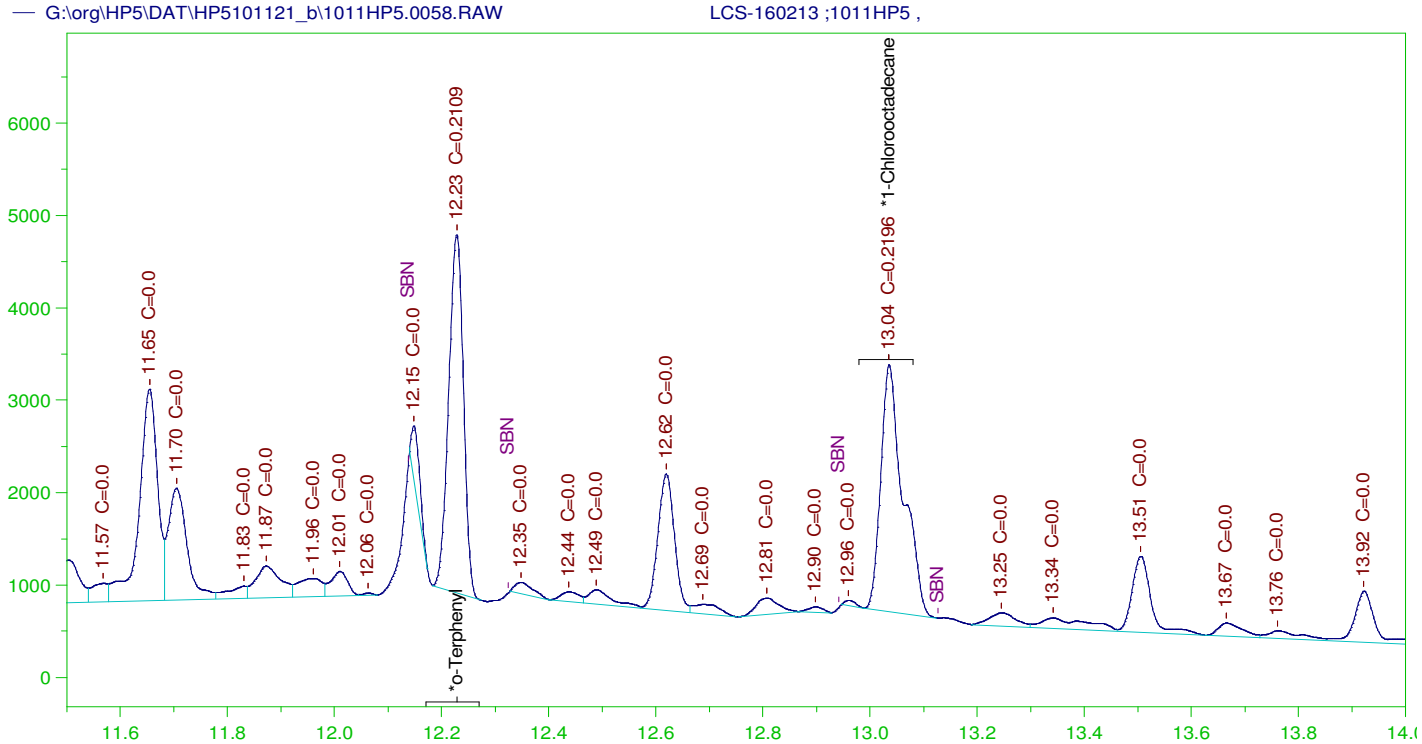
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0058.RAW
Date & Time Acquired: 10/13/2021 3:47:06 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .211 | 105.47 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .22 | 109.8 | - |

DRO Area:2.202292E+08 DRO Amount: 7.47621
TEH Area:2.340806E+08 TEH Amount: 7.946428

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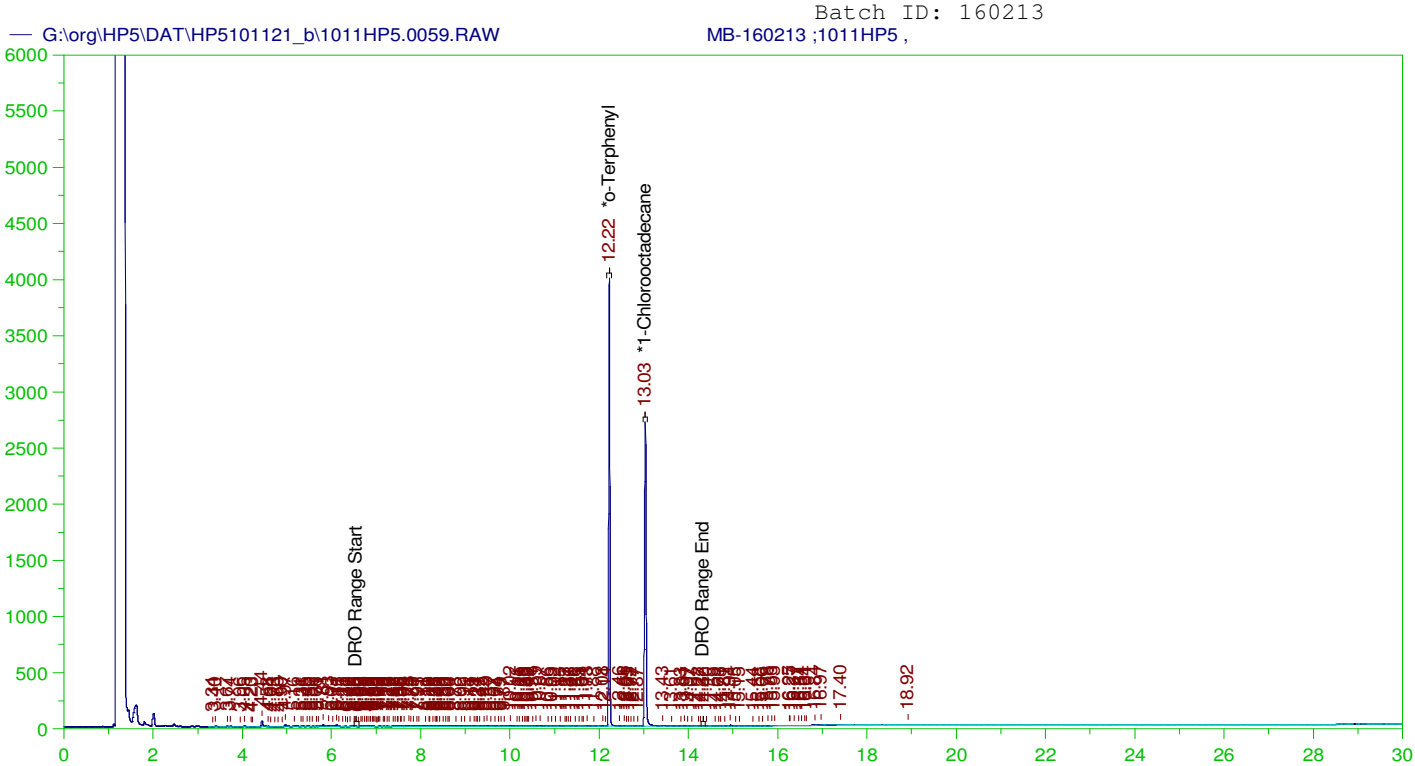
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

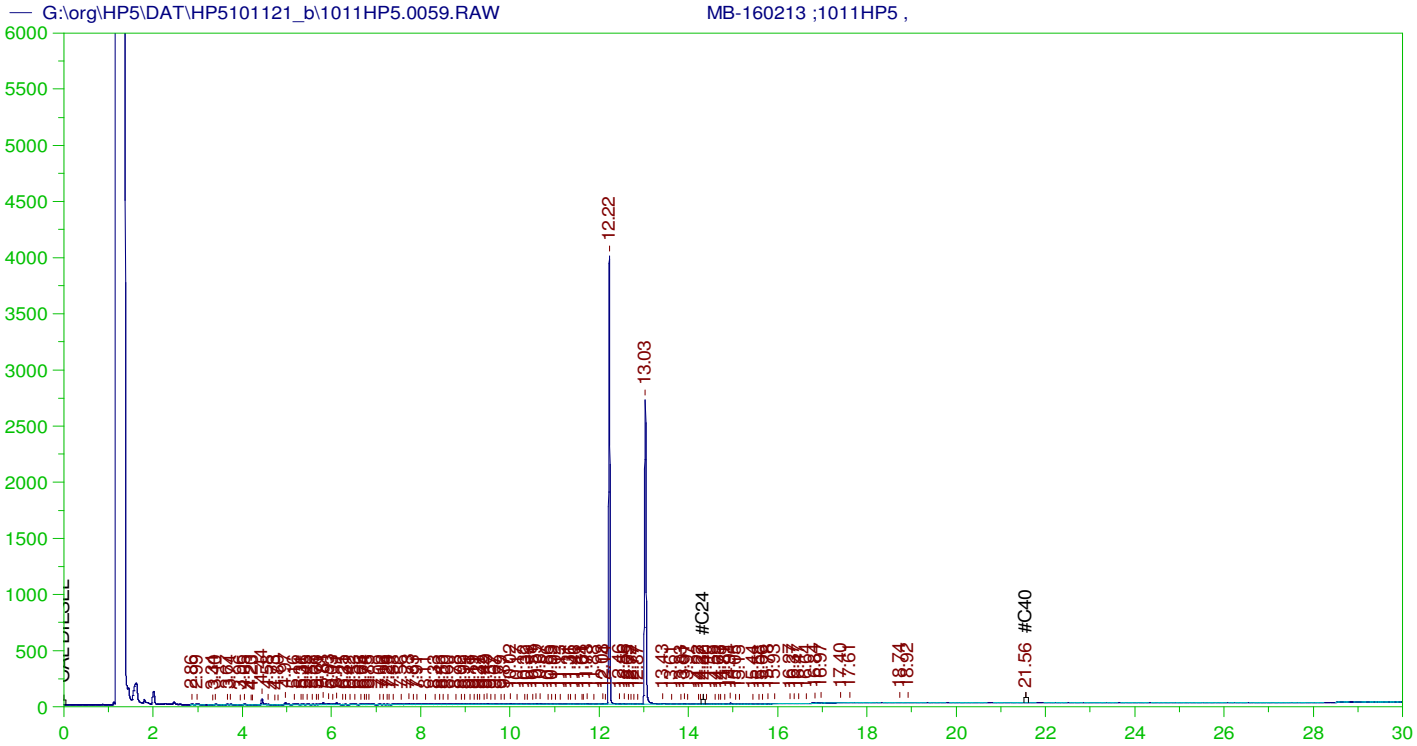
Sample Name: MB-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0059.RAW
Date & Time Acquired: 10/13/2021 4:29:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .2 | .222 | 110.91 | - |
| *1-Chlorooctadecane | 13.03 | .2 | .175 | 87.29 | - |

DRO Area:691525.5 DRO Amount: 0.0234755
TEH Area:1300256 TEH Amount: 4.414031E-02

G:\org\HP5\dat\HP5101121_b\Review\059_MB-160213_DR_8015-C24-HS-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0059.RAW
Date & Time Acquired: 10/13/2021 4:29:58 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

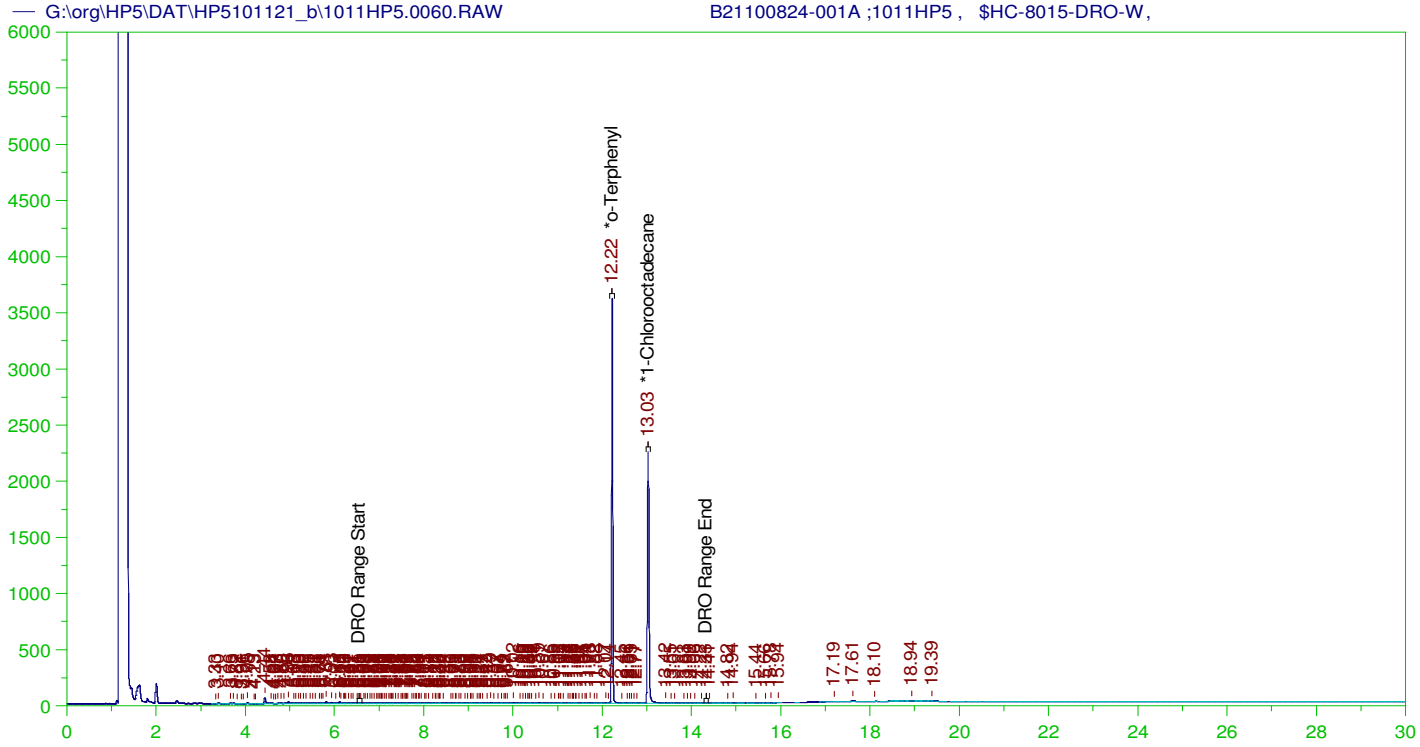
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:160534.3 RRO AMOUNT: 5.624414E-03

G:\org\HP5\dat\HP5101121_b\Review\059_MB-160213_DR_OIL-S-AJ-L%.xls

**ERH1778 (Pre-Chlorination RHSF)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW B21100824-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100824-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW
Date & Time Acquired: 10/13/2021 5:12:46 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

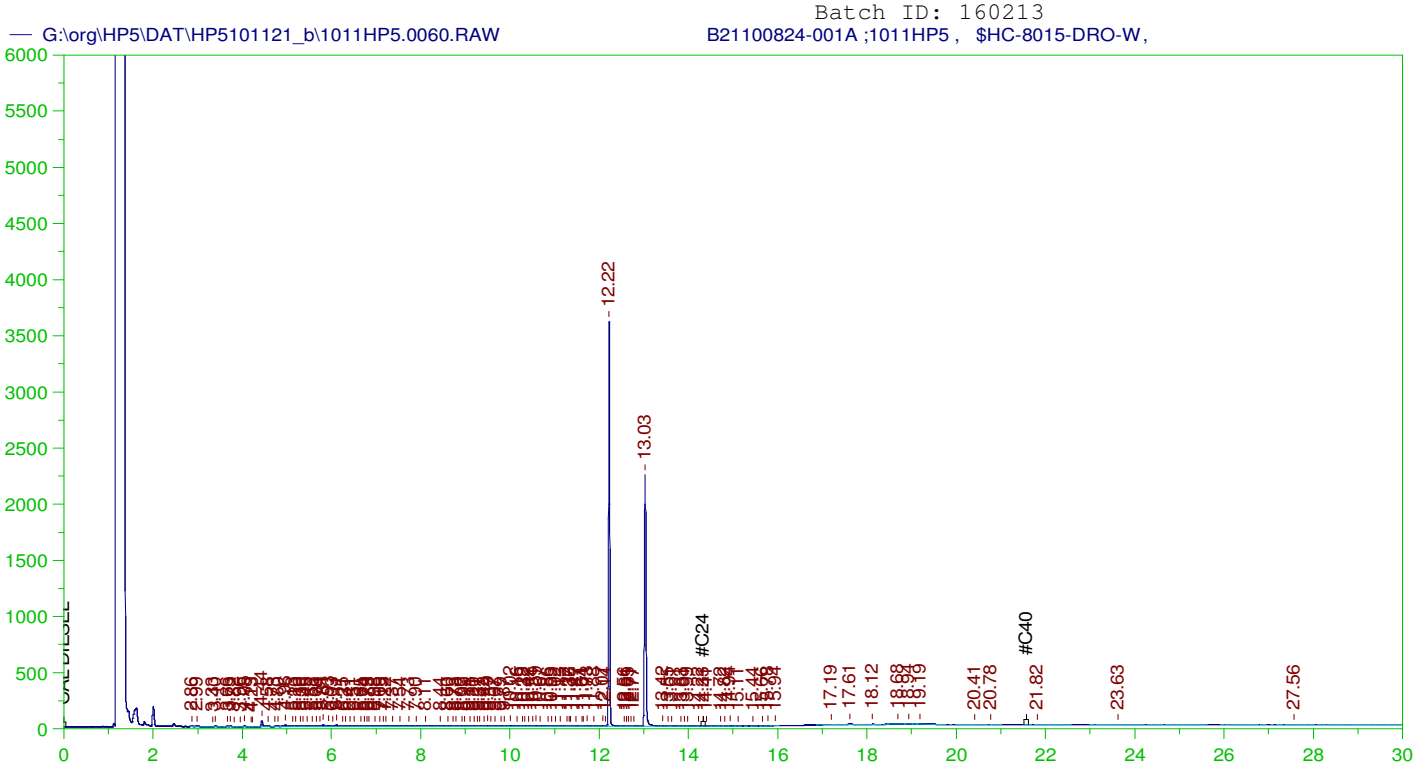
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .191 | 100.23 | - |
| *1-Chlorooctadecane | 13.028 | .19 | .139 | 73.23 | - |

DRO Area:655430.4 DRO Amount: 2.119063E-02
TEH Area:1210697 TEH Amount: 3.914286E-02

G:\org\HP5\dat\HP5101121_b\Review\060_B21100824-001A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100824-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW
Date & Time Acquired: 10/13/2021 5:12:46 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

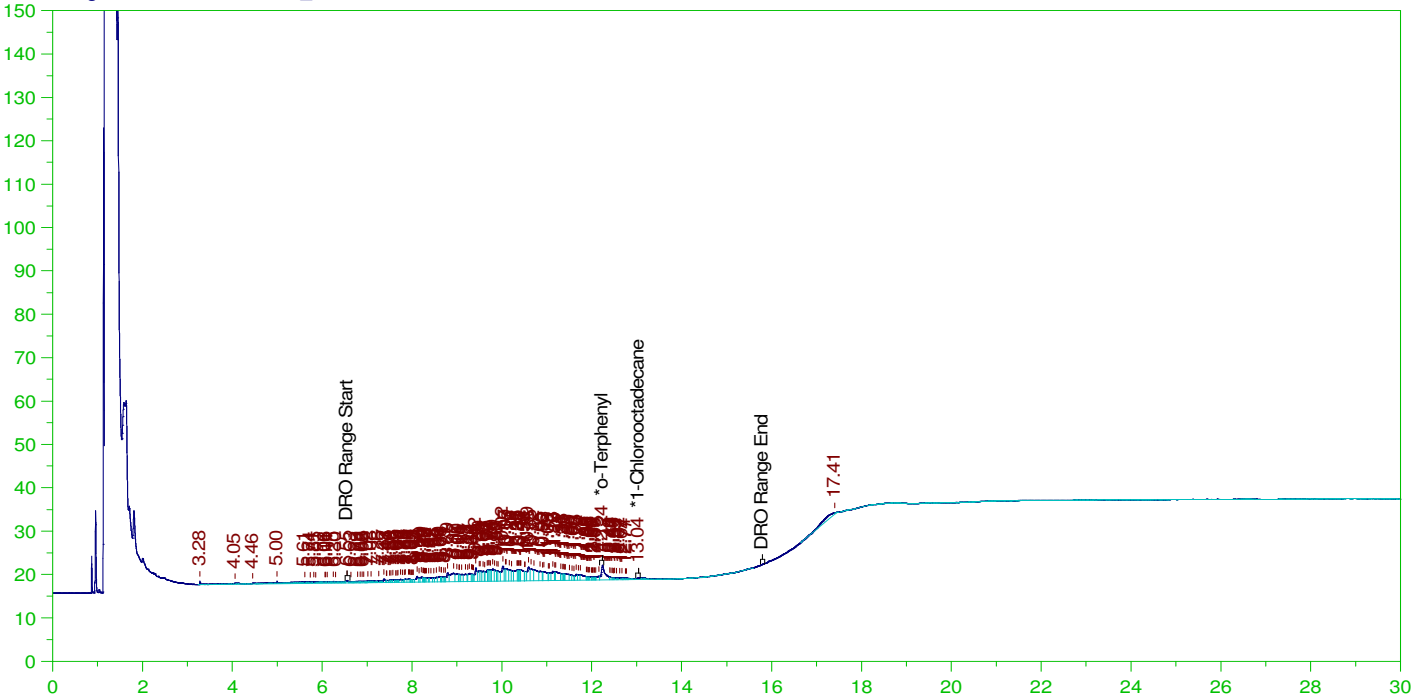
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:101816.1 RRO AMOUNT: 3.397321E-03

G:\org\HP5\dat\HP5101121_b\Review\060_B21100824-001A_DR_OIL-S-AJ-L%.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0061.RAW B21100827-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0061.RAW
Date & Time Acquired: 10/13/2021 5:55:48 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.237 | .191 | .001 | .3 | - |
| *1-Chlorooctadecane | 13.037 | .191 | . | .03 | - |

DRO Area:486628.5 DRO Amount: 0.0158084
TEH Area:550572.7 TEH Amount: 1.788566E-02

G:\org\HP5\dat\HP5101121_b\Review\061_B21100827-001A_DR_8015-HS-LEXP.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

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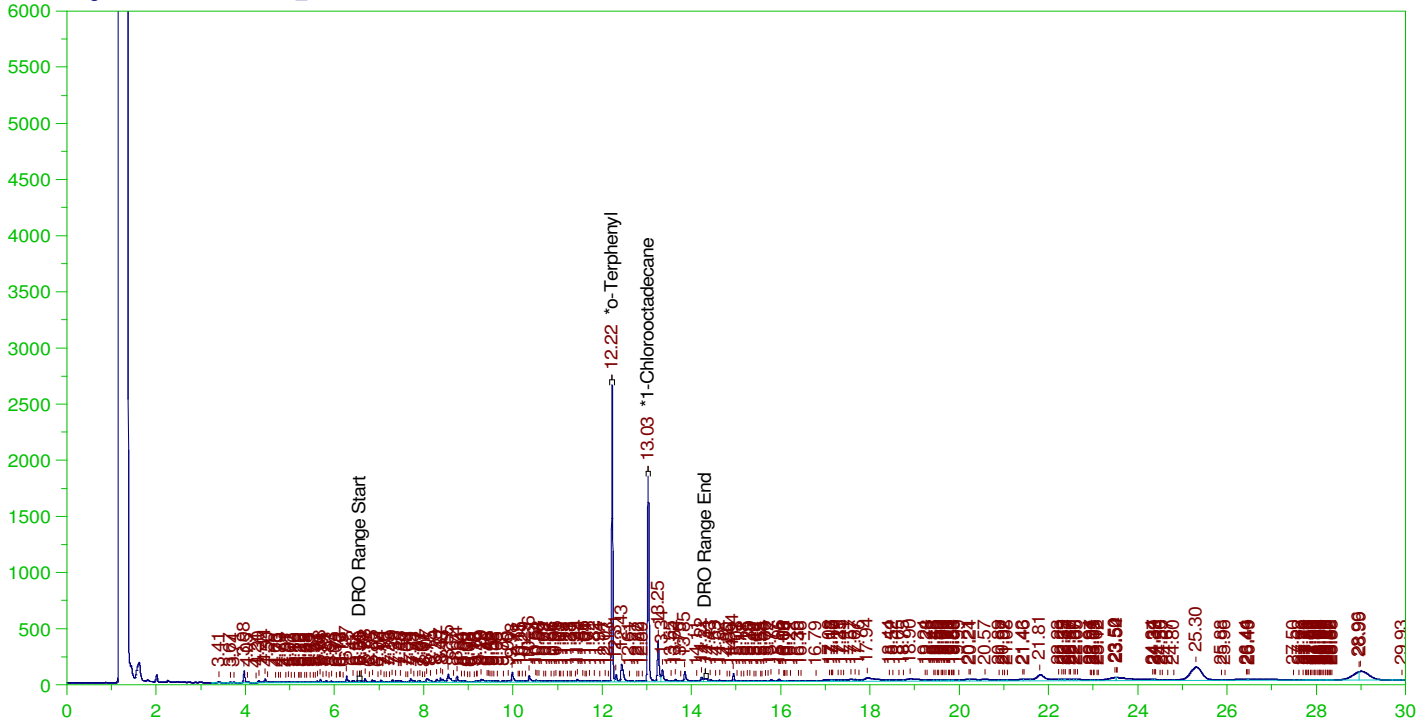



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

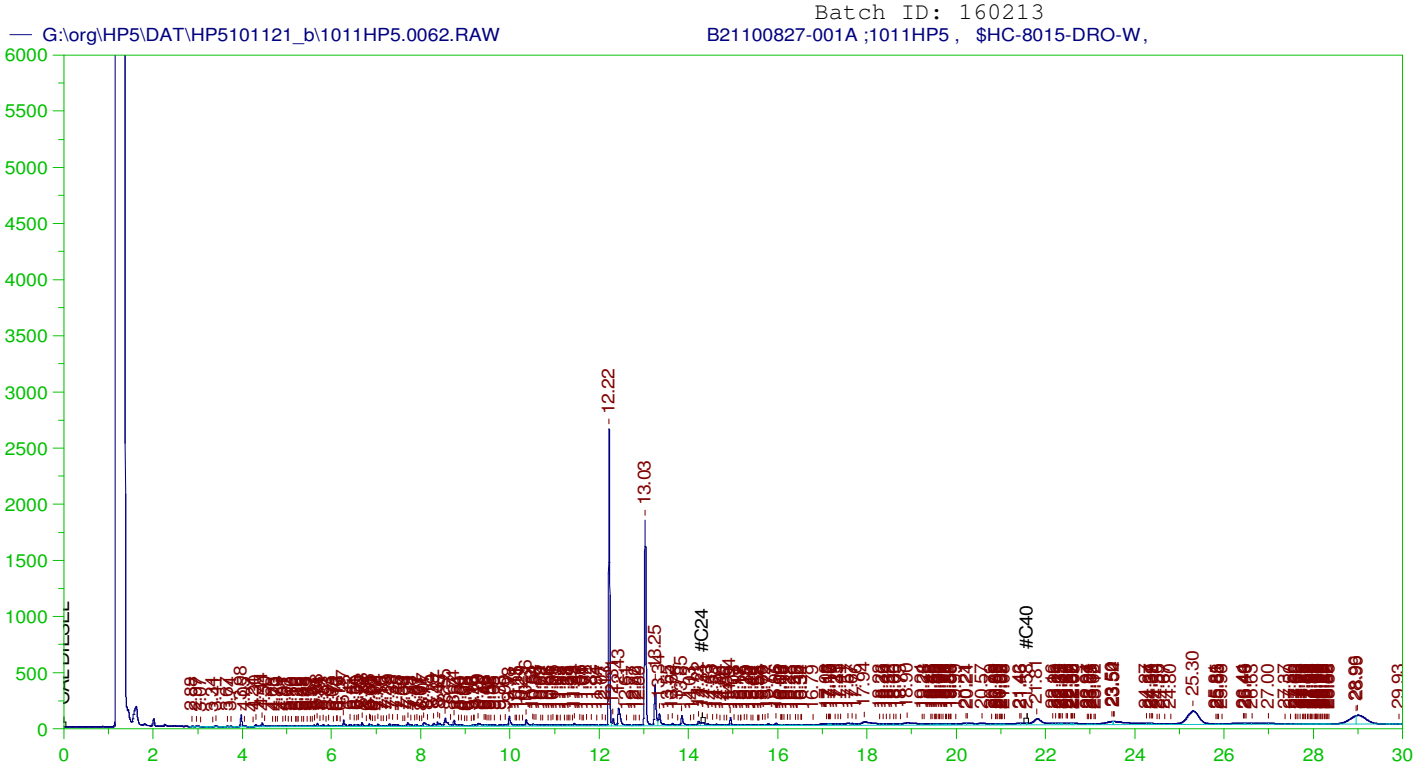
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.22 | .191 | .14 | 73.06 | - |
| *1-Chlorooctadecane | 13.028 | .191 | .111 | 58.04 | - |

DRO Area:6923030 DRO Amount: 0.2248985
TEH Area:2.070019E+07 TEH Amount: 0.6724572

G:\org\HP5\dat\HP5101121_b\Review\062_B21100827-001A_D3_8015-101162-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

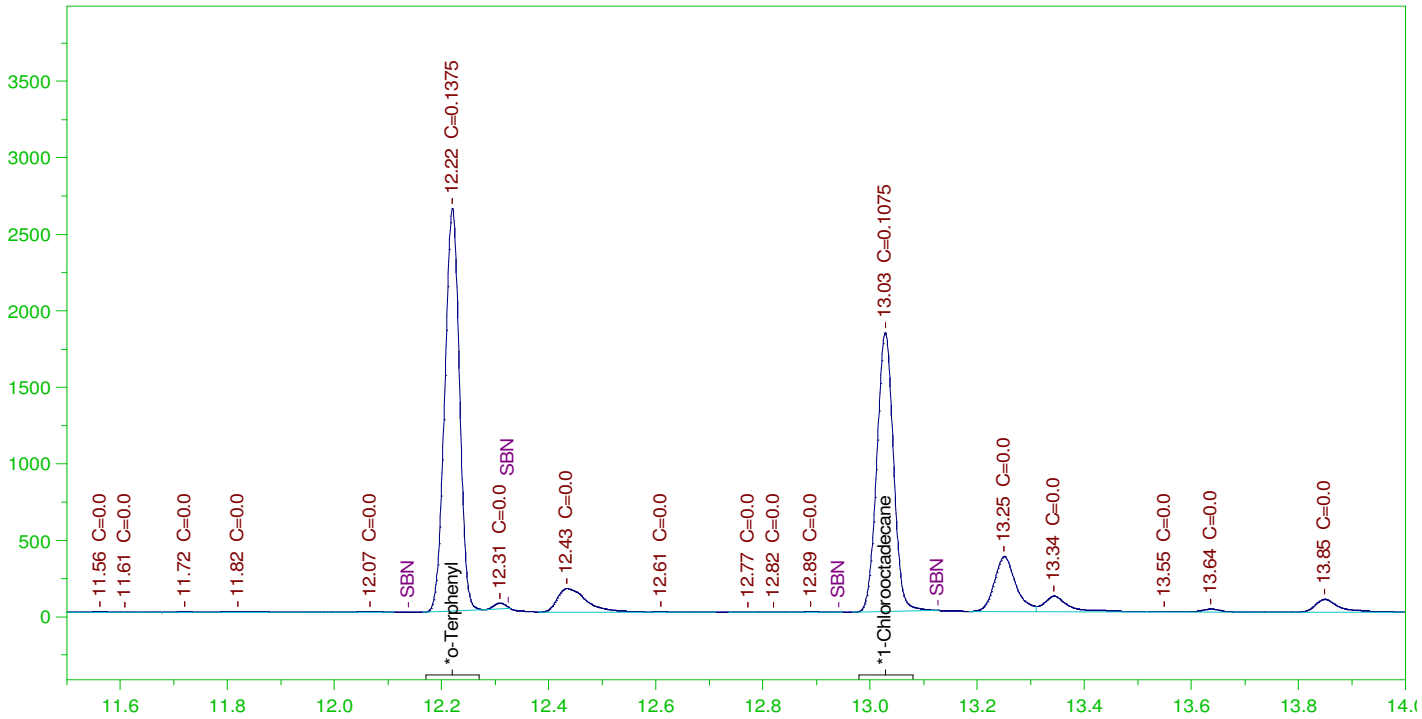
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:5083649 RRO AMOUNT: 0.1704389

**ERH1767 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW B21100827-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

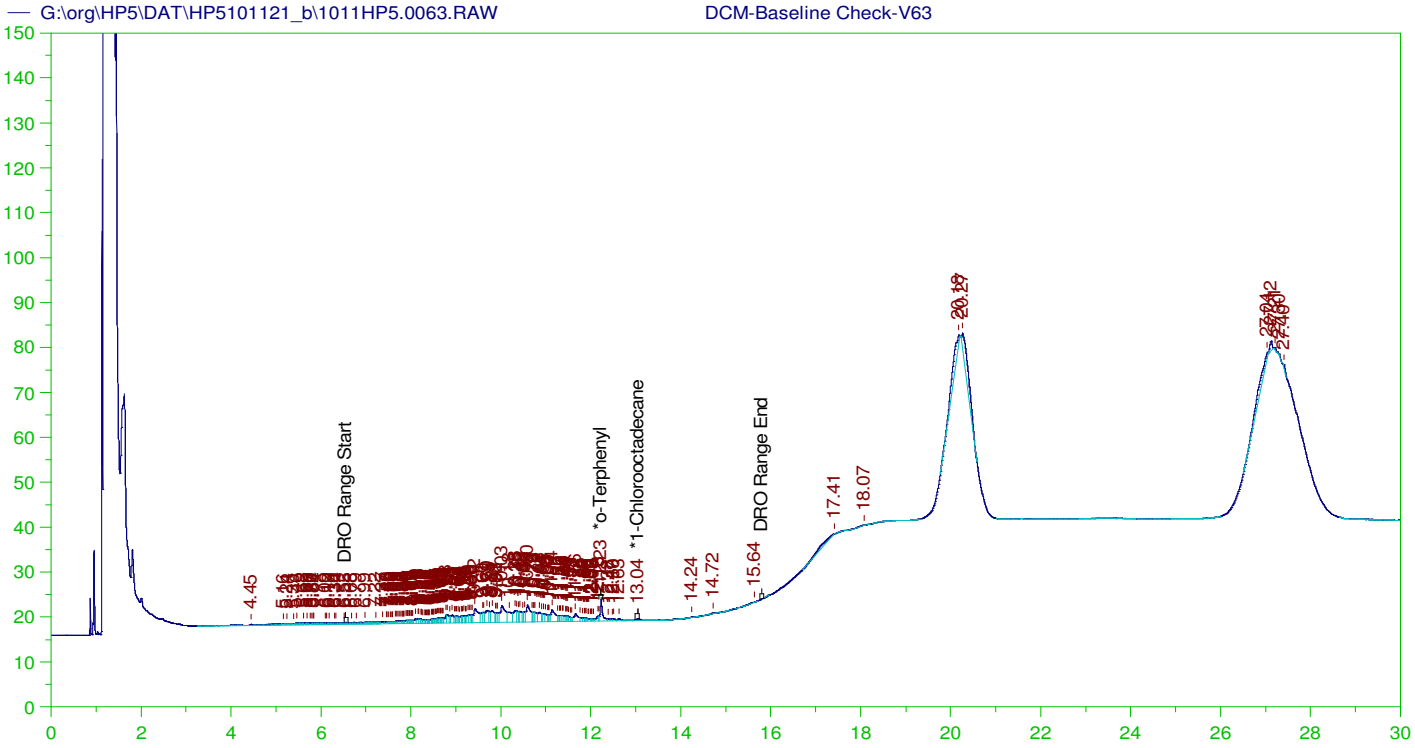
Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.22 | .191 | .138 | 71.86 | - |
| *1-Chlorooctadecane | 13.028 | .191 | .107 | 56.17 | - |

DRO Area:5915212 DRO Amount: 0.1921589
TEH Area:6878895 TEH Amount: 0.2234647

G:\org\HP5\dat\HP5101121_b\Review\062_B21100827-001A_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

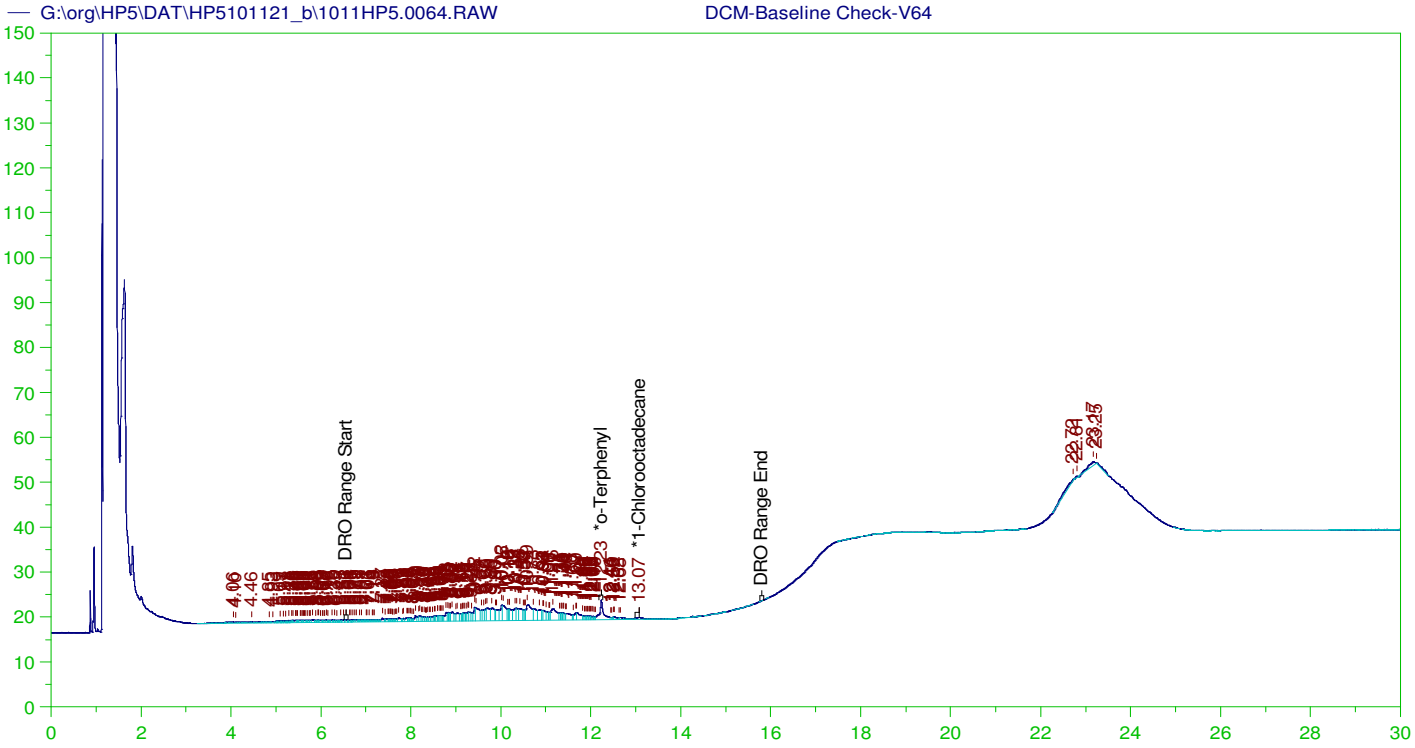
Sample Name: DCM-Baseline Check-V63
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0063.RAW
Date & Time Acquired: 10/13/2021 7:21:30 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | 200. | .541 | .27 | - |
| *1-Chlorooctadecane | 13.044 | 200. | .092 | .05 | - |

DRO Area:461835.7 DRO Amount: 15.67812
TEH Area:700402.4 TEH Amount: 23.77685

G:\org\HP5\dat\HP5101121_b\Review\063_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V64
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0064.RAW
Date & Time Acquired: 10/13/2021 8:04:19 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

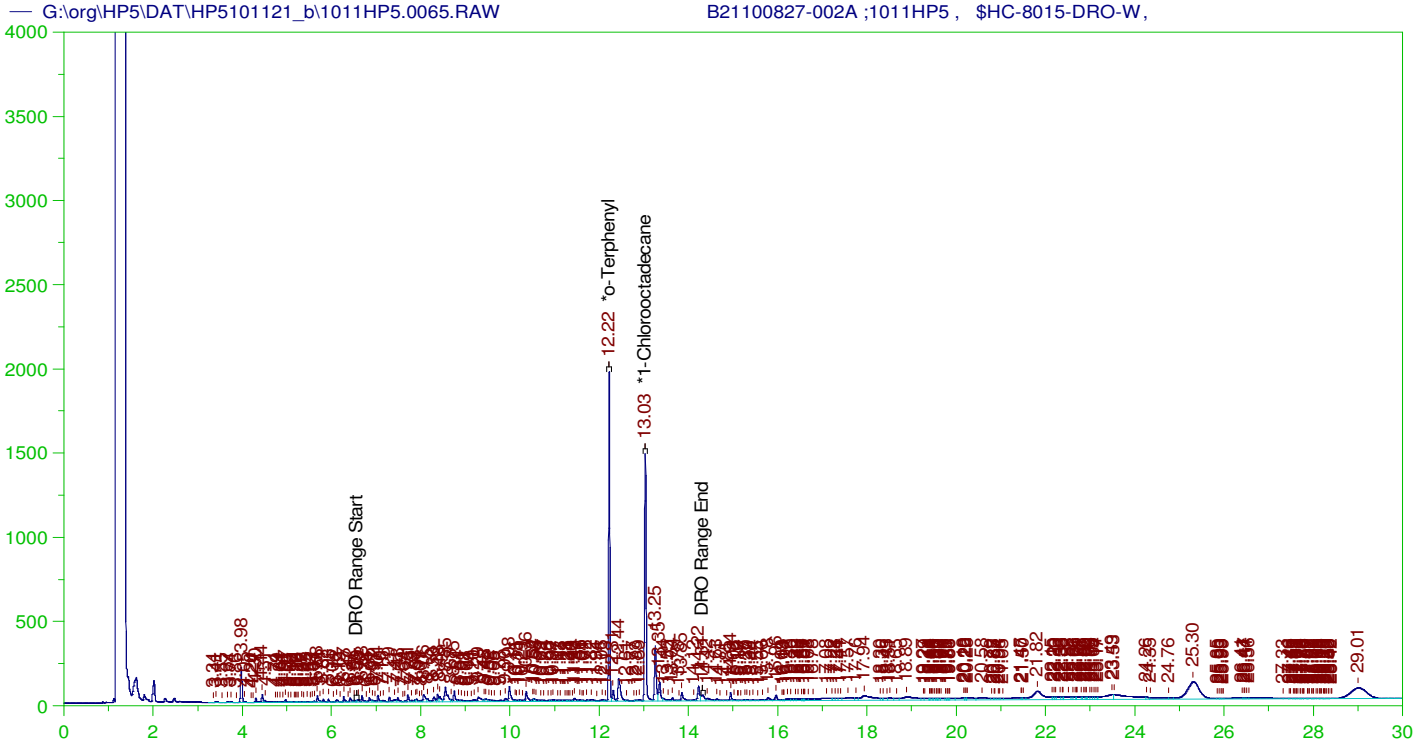
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | .767 | .38 | - |
| *1-Chlorooctadecane | 13.073 | 200. | .104 | .05 | - |

DRO Area:512970.4 DRO Amount: 17.41401
TEH Area:603912.3 TEH Amount: 20.50126

G:\org\HP5\dat\HP5101121_b\Review\064_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1772 (RHMW12A)** Batch ID: 160213

G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW B21100827-002A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

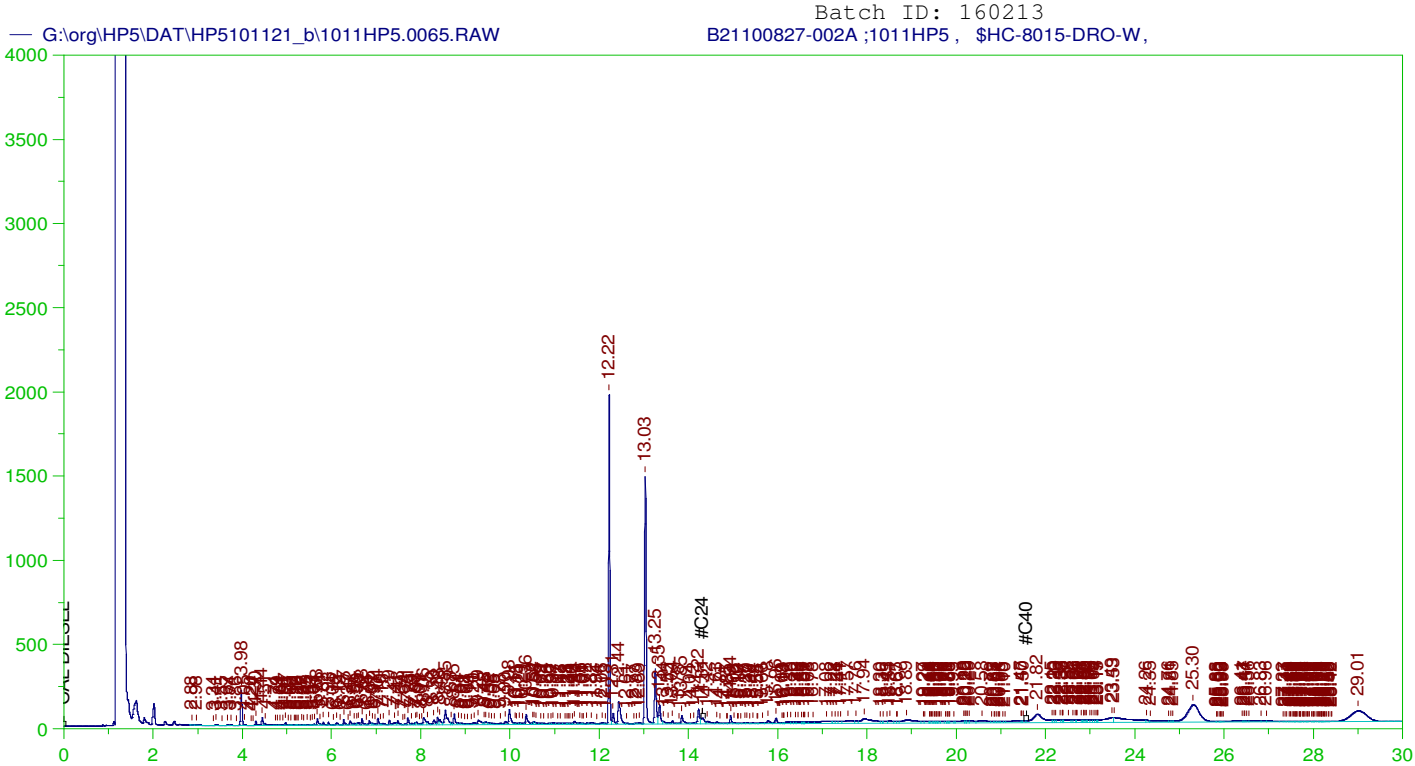
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .103 | 54.07 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .089 | 46.74 | - |

DRO Area:7121018 DRO Amount: 0.2302286
TEH Area:2.098284E+07 TEH Amount: 0.6783934

G:\org\HP5\dat\HP5101121_b\Review\065_B21100827-002A_D3_8015-101165-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

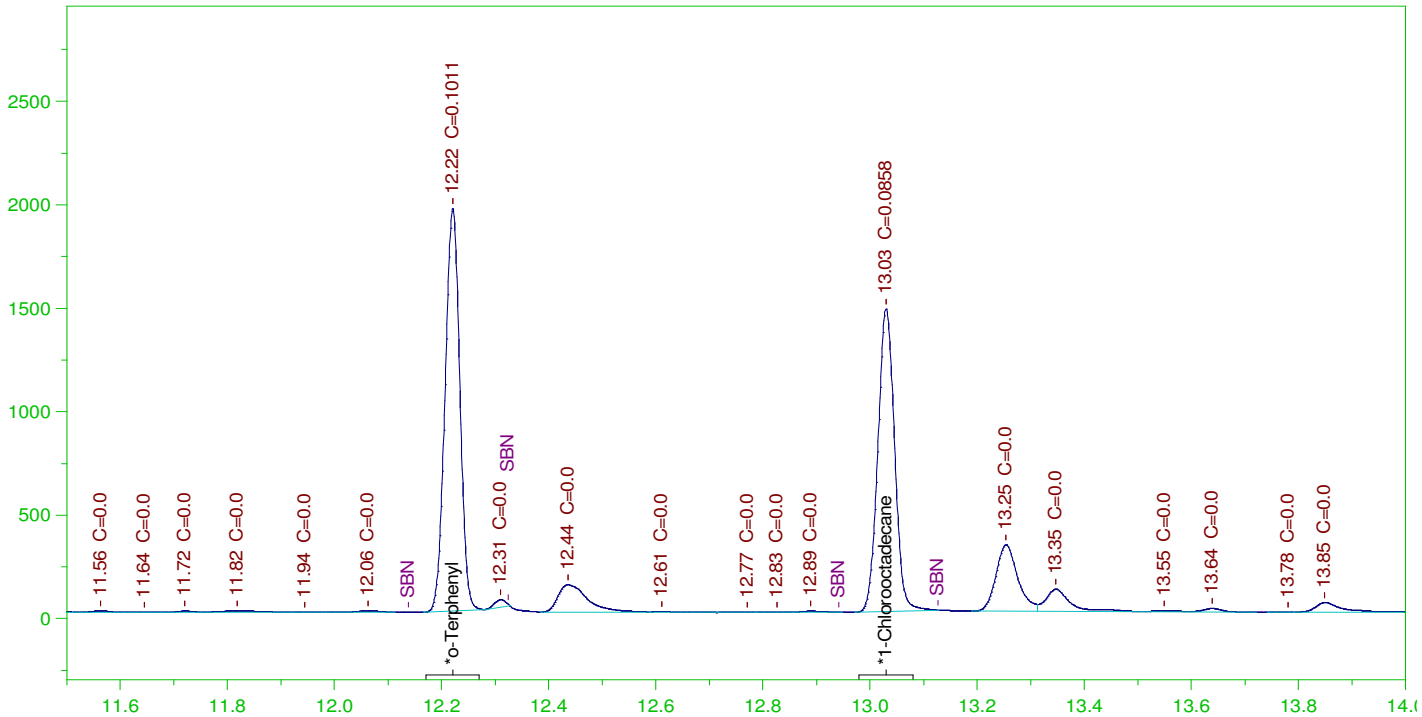
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:4919291 RRO AMOUNT: 0.1641431

**ERH1772 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW B21100827-002A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

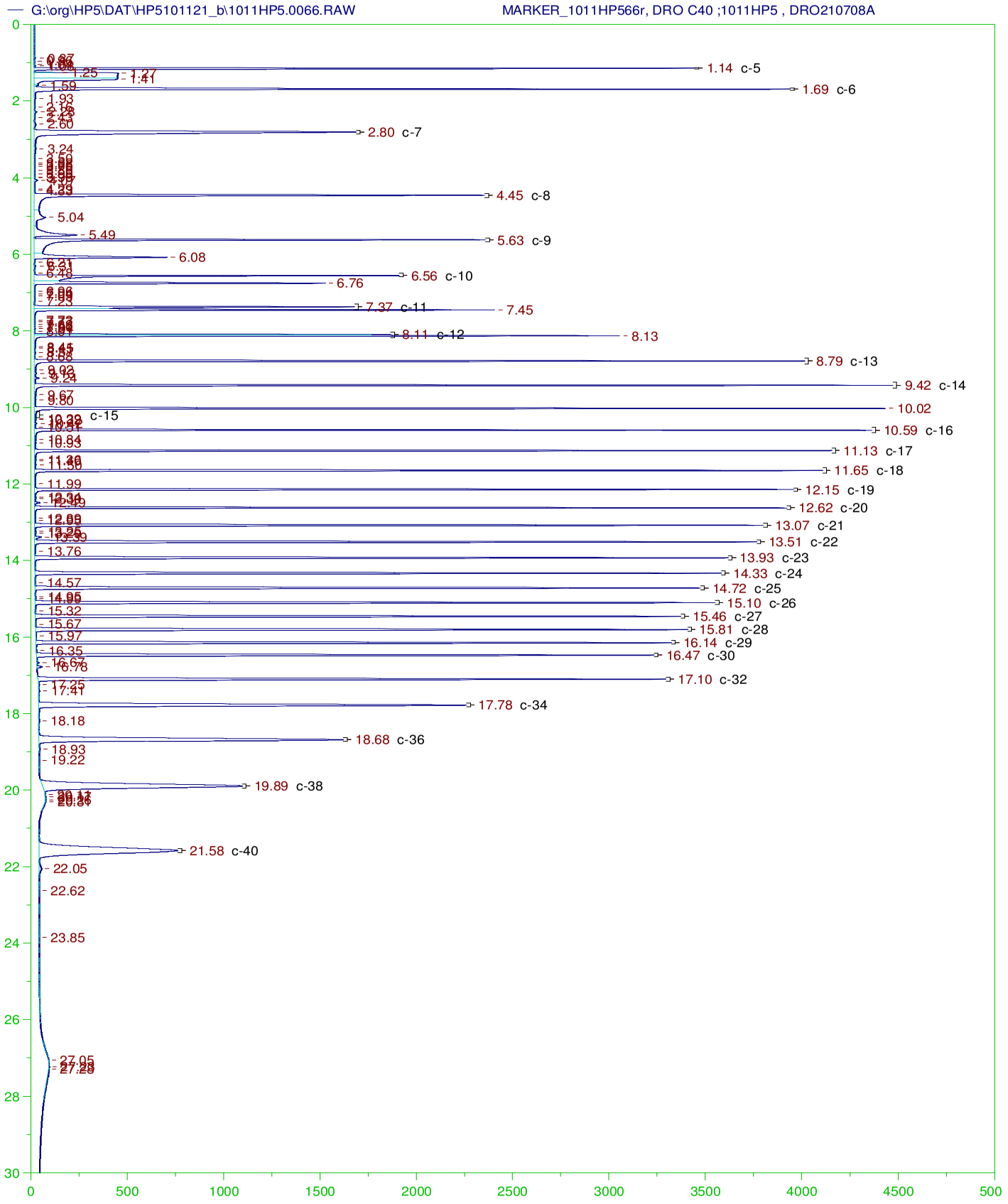
Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .101 | 53.07 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .086 | 45.07 | - |

DRO Area:6178081 DRO Amount: 0.1997427
TEH Area:7603099 TEH Amount: 0.2458148

G:\org\HP5\dat\HP5101121_b\Review\065_B21100827-002A_DS_8015-HS-L#.xls


G:\org\HP5\DAT\HP5101121_b\1011HP5.0066.RAW
MARKER_1011HP566r, DRO C40 ;1011HP5 , DRO210708A
1.14 c-5
1.69 c-6
2.80 c-7
4.45 c-8
5.63 c-9
6.56 c-10
7.37 c-11
8.11 c-12
8.79 c-13
9.42 c-14
10.02
10.59 c-16
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.10 c-26
15.46 c-27
15.81 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
19.89 c-38
21.58 c-40
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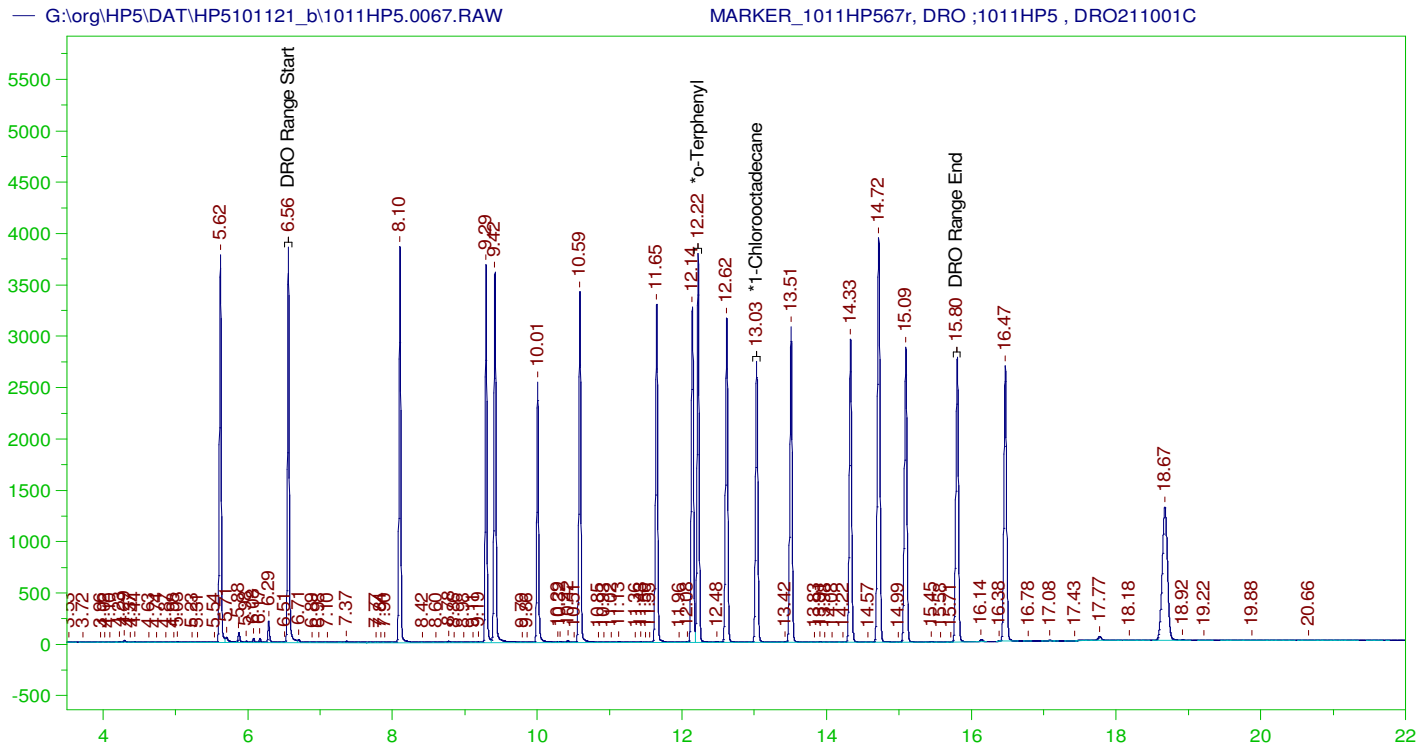



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

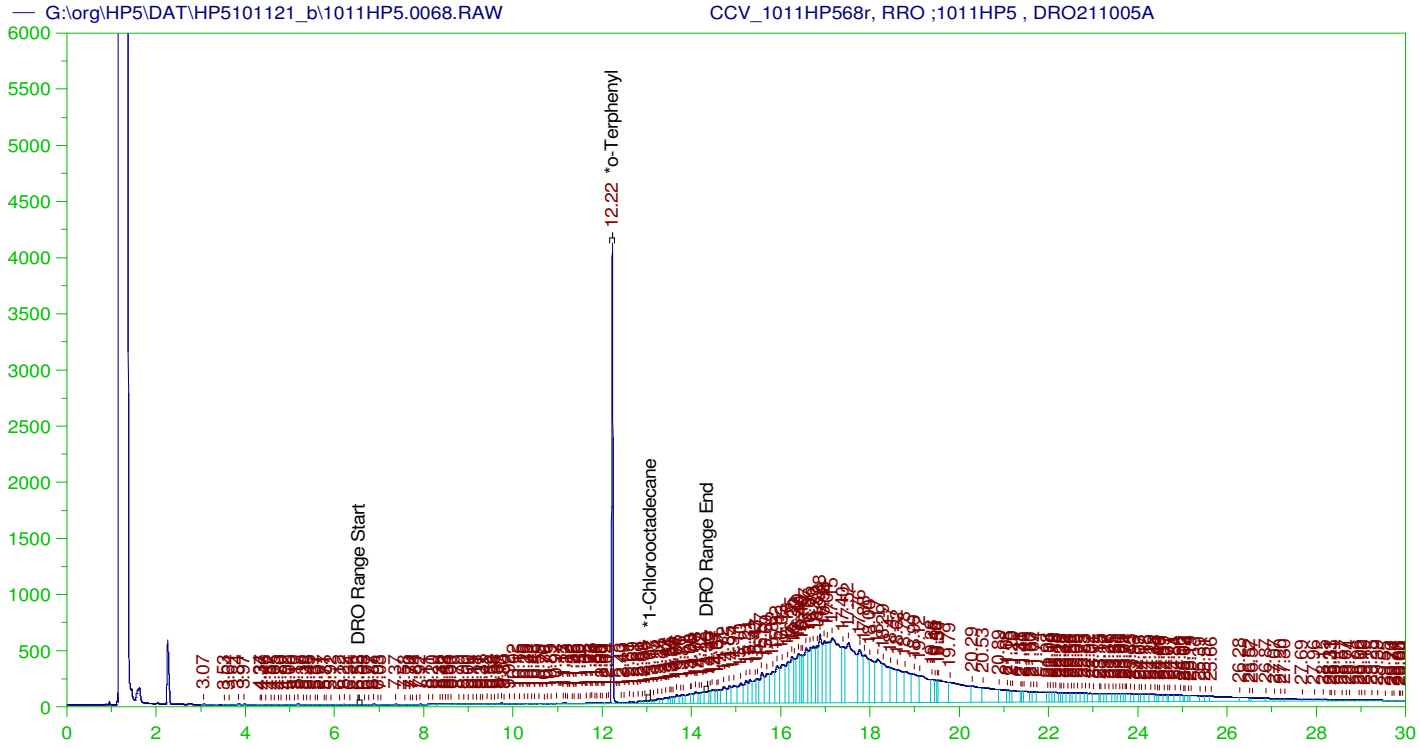
Sample Name: MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0067.RAW
Date & Time Acquired: 10/13/2021 10:13:13 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | 200. | 207.103 | 103.55 | - |
| *1-Chlorooctadecane | 13.032 | 200. | 167.24 | 83.62 | - |

DRO Area:9.46077E+07 DRO Amount: 3211.686
TEH Area:1.157155E+08 TEH Amount: 3928.242

G:\org\HP5\dat\HP5101121_b\Review\067_MARKER_1011HP567r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP568r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW
Date & Time Acquired: 10/13/2021 10:55:59 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 228.139 | 114.07 | - |
| *1-Chlorooctadecane | 13.068 | 200. | 4.318 | 2.16 | - |

DRO Area:6687357 DRO Amount: 234.2955
TEH (Oil Range) Area:1.440007E+08 TEH (Oil Range) Amount: 5045.149

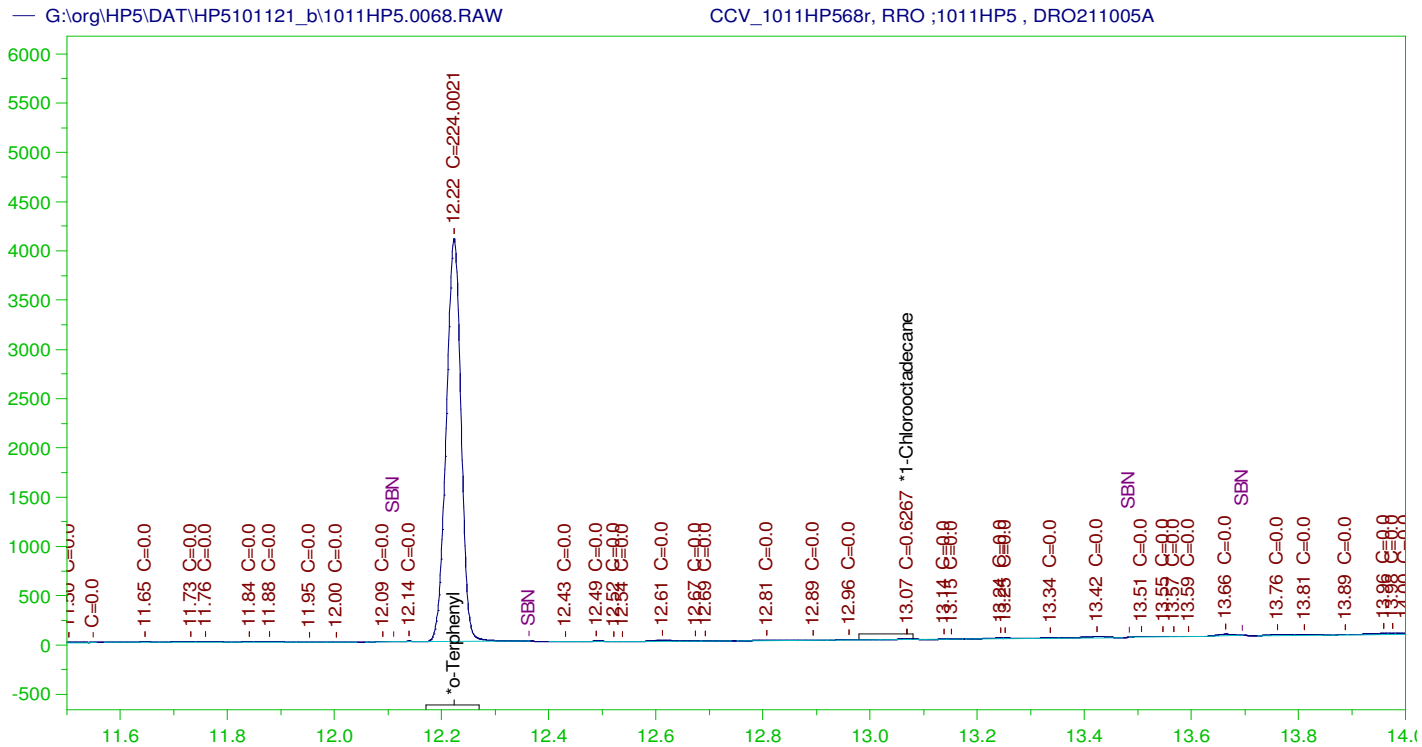
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5045.15 | 100.9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 228.139 | 114.07 | 85-115 |
| *1-Chlorooctadecane | 13.068 | 200. | 4.318 | 2.16 | 85-115 |

AMN 10/20/2021

G:\org\HP5\dat\HP5101121_b\Review\068_CCV_1011HP568r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP568r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW
Date & Time Acquired: 10/13/2021 10:55:59 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 224.002 | 112. | - |
| *1-Chlorooctadecane | 13.068 | 200. | .627 | .31 | - |

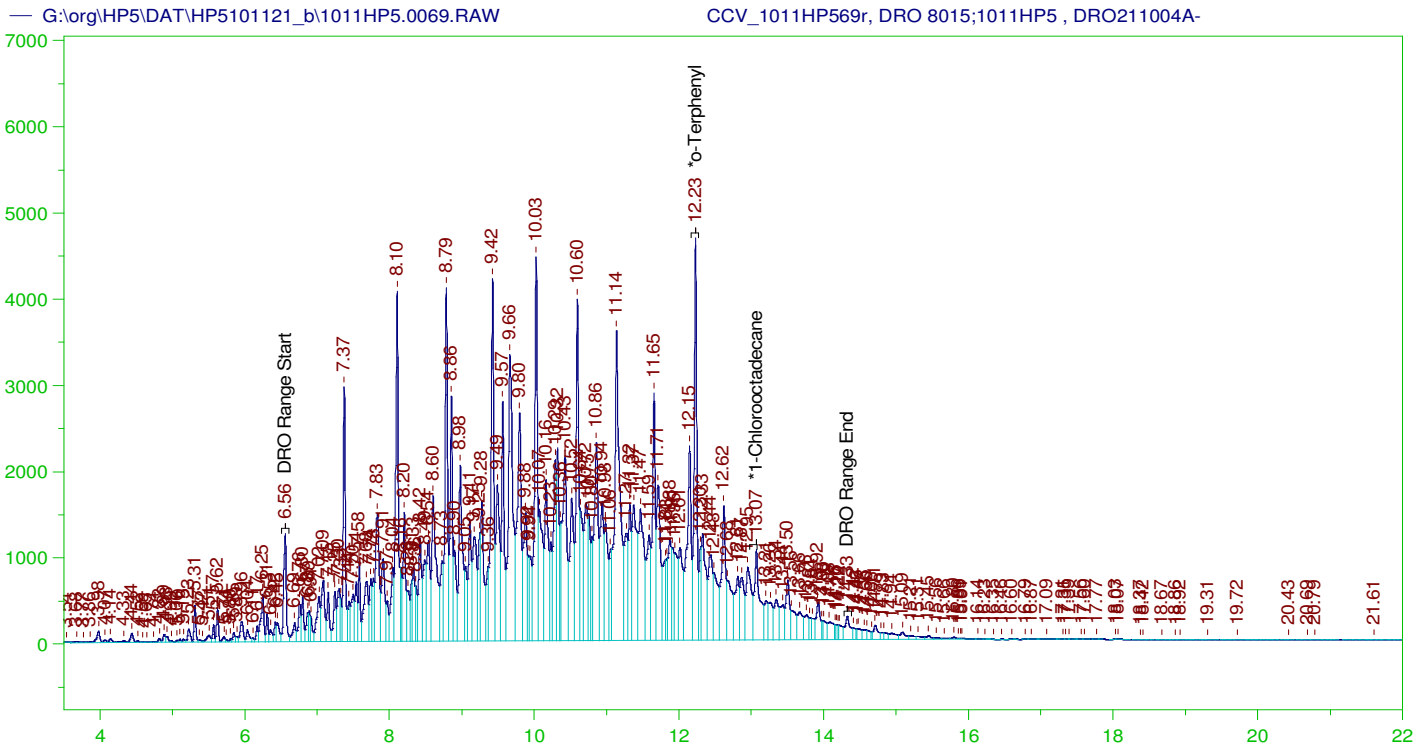
DRO Area:934243.1 DRO Amount: 32.73175
TEH Area:2139755 TEH Amount: 74.96756

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 74.97 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 224.002 | 112. | 85-115 |
| *1-Chlorooctadecane | 13.068 | 200. | .627 | .31 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\068_CCV_1011HP568r_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW
Date & Time Acquired: 10/13/2021 11:38:56 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 334.947 | 167.47 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 152.18 | 76.09 | - |

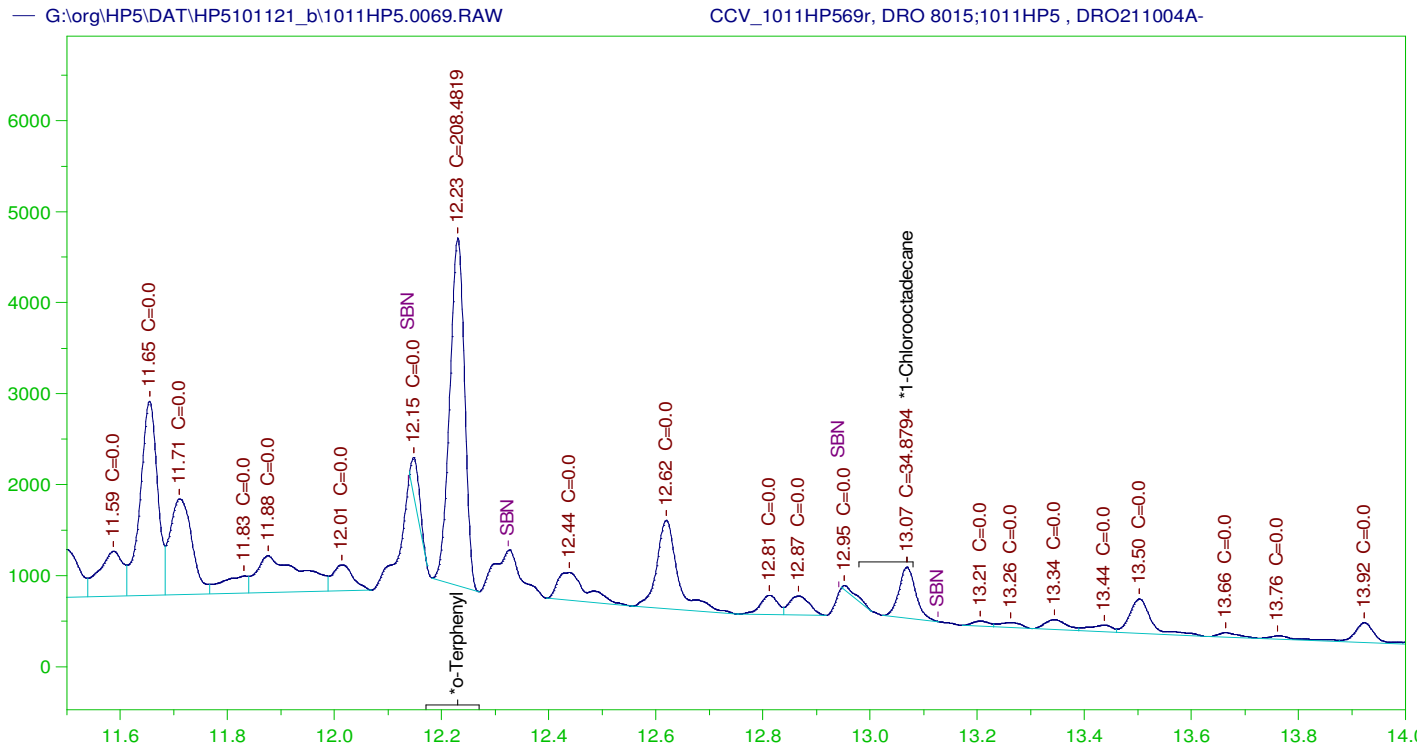
DRO Area:4.39895E+08 DRO Amount: 14933.29
TEH Area:4.556282E+08 TEH Amount: 15467.4

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15467.4 | 103.12 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 334.947 | 167.47 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 152.18 | 76.09 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\069_CCV_1011HP569r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW
Date & Time Acquired: 10/13/2021 11:38:56 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 208.482 | 104.24 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 34.879 | 17.44 | - |

DRO Area:2.439914E+08 DRO Amount: 8282.876
TEH Area:2.533526E+08 TEH Amount: 8600.662

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8600.66 | 57.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 208.482 | 104.24 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 34.879 | 17.44 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\069_CCV_1011HP569r_DS_8015-HS-L#.xls

Write Sequence | Insert Entries(Have the first cell for entries selectec

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | **Manual Integrations** |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.56r | DCM-Baseline Check-V56 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.57r | DCM-Baseline Check-V57 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.58r | LCS-160213 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split at 13.06.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.59r | MB-160213 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.60r | B21100824-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.61r | DCM-Baseline Check-V61 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.62r | B21100827-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1045 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak Width Adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.64r | DCM-Baseline Check-V64 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.65r | B21100827-002A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak Width Adjusted and scale set 4000.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.66r | MARKER_1011HP566r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.67r | MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.68r | CCV_1011HP568r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.69r | CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.21 08:39:06 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Oct-21*

**Run ID** GCFID-HP5-B_211013B

**Run Start Date:** 10/13/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211012C | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770795 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/13/2021 2:37: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.186625 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.901167 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2053911 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.186625 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770796 | CCV_1013HP50 | HC-8015-DRO- | CCV | | 10/13/2021 3:19: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.915474 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2262164 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770802 | CCV_1013HP54 | HC-8015-DRO- | CCV | | 10/13/2021 4:02: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.85804 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.85804 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 106% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2120444 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770803 | B21100828-001 | HC-8015-DRO- | SAMP | | 10/13/2021 5:27: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1976113 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770804 | B21100828-002 | HC-8015-DRO- | SAMP | | 10/13/2021 6:10: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1874219 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770805 | B21100834-001 | HC-8015-DRO- | SAMP | | 10/13/2021 6:53: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038511 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.087021 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.074151 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1818448 | | 0.198 | 0 | 0 | 0.0004247 | 0.002 | 0 | 92% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770806 | B21100834-002 | HC-8015-DRO- | SAMP | | 10/13/2021 8:19: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.189216 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770807 | B21100834-003 | HC-8015-DRO- | SAMP | | 10/13/2021 9:45: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1973095 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 103% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770808 | B21100827-003 | HC-8015-DRO- | SAMP | | 10/13/2021 11:5 | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1915854 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770809 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/14/2021 2:01: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3273.727 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4005.684 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 210.9286 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105464% | 50 | 150 | 0% | S |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3273.727 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770810 | CCV_1013HP51 | HC-8015-DRO- | CCV | | 10/14/2021 2:44: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.746161 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 95% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2216466 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 111% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770811 | CCV_1013HP52 | HC-8015-DRO- | CCV | | 10/14/2021 3:27: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.33257 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 109% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.33257 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.219708 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770812 | LCS-RRO-1602 | HC-8015-DRO- | LCS-DOD | | 10/14/2021 4:52: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.671418 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 93% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.203986 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770813 | B21100827-002 | HC-8015-DRO- | MS-DOD | | 10/14/2021 6:18: | 1 | 160213 | 10/11/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.356012 | | 9.7 | 0.4448315 | 0 | 0.170526 | 0.582 | 0 | 92% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2648423 | | 0.388 | 0 | 0 | 0.0008323 | 0.00388 | 0 | 68% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770814 | B21100827-002 | HC-8015-DRO- | MSD-DOD | | 10/14/2021 7:43: | 1 | 160213 | 10/11/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.44066 | | 9.7 | 0.4448315 | 9.356012 | 0.170526 | 0.582 | 0 | 93% | 41 | 113 | 1% | |
| o-Terphenyl | S | mg/L | | 0.237997 | | 0.388 | 0 | 0 | 0.0008323 | 0.00388 | 0 | 61% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770815 | B21100827-001 | HC-8015-DRO- | MS-DOD | | 10/14/2021 9:08: | 1 | 160213 | 10/11/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 30.96145 | | 30 | 0.2248985 | 0 | 0.0778 | 0.6 | 0 | 102% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 33.02845 | | 30 | 0.6724572 | 0 | 0.1498 | 0.6 | 50 | 108% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.4151205 | | 0.4 | 0 | 0 | 0.000858 | 0.004 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770816 | B21100827-001 | HC-8015-DRO- | MSD-DOD | | 10/14/2021 10:3 | 1 | 160213 | 10/11/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 31.09606 | | 30 | 0.2248985 | 30.96145 | 0.0778 | 0.6 | 0 | 103% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 33.69878 | | 30 | 0.6724572 | 33.02845 | 0.1498 | 0.6 | 50 | 110% | 60 | 132 | 2% | |
| o-Terphenyl | S | mg/L | | 0.3570459 | | 0.4 | 0 | 0 | 0.000858 | 0.004 | 0 | 89% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770817 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/14/2021 12:4 | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.544346 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.332742 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2284829 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 114% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.544346 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770818 | CCV_1013HP53 | HC-8015-DRO- | CCV | | 10/14/2021 1:24: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.916102 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2103075 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770819 | CCV_1013HP53 | HC-8015-DRO- | CCV | | 10/14/2021 2:06: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770819 | CCV_1013HP53 | HC-8015-DRO- | CCV | | 10/14/2021 2:06: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.89215 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.89215 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 106% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2131573 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Oct-21*

**Run ID** GCFID-HP5-B_211013C

**Run Start Date:** 10/13/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211012C | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772753 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/14/2021 5:14: | 1 | R368710 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.339782 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.851967 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2022007 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 101% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.339782 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772754 | CCV_1013HP54 | HC-8015-DRO- | CCV | | 10/14/2021 5:58: | 1 | R368710 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.713531 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 94% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2069826 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772756 | CCV_1013HP54 | HC-8015-DRO- | CCV | | 10/14/2021 6:41: | 1 | R368710 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.76777 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.29089 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 102% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2036942 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772757 | LCS-160213 | HC-8015-DRO- | LCS-DOD | | 10/14/2021 8:07: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 13.76798 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 92% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 14.70864 | | 15 | 0 | 0 | 0.0329 | 0.3 | 0 | 98% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.199077 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772758 | MB-160213 | HC-8015-DRO- | MBLK | | 10/14/2021 8:50: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0329 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.2046909 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772759 | B21100827-002 | HC-8015-DRO- | SAMP | | 10/14/2021 9:33: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0313208 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.08567158 | | 0.1904 | 0 | 0 | 0.0004084 | 0.001904 | 0 | 45% | 56 | 125 | 0% | S |
| TEH (SGT-Oil Range) | X | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.2856 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772760 | B21100827-001 | HC-8015-DRO- | SAMP | | 10/14/2021 10:1 | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0372273 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0841203 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0314853 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1333258 | | 0.1914 | 0 | 0 | 0.0004106 | 0.001914 | 0 | 70% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772761 | B21100827-001 | HC-8015-DRO- | MS-DOD | | 10/14/2021 10:5 | 1 | 160213 | 10/11/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 26.39385 | | 30 | 0 | 0 | 0.0778 | 0.6 | 0 | 88% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 28.03049 | | 30 | 0 | 0 | 0.0658 | 0.6 | 0 | 93% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.368452 | | 0.4 | 0 | 0 | 0.000858 | 0.004 | 0 | 92% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772762 | B21100827-001 | HC-8015-DRO- | MSD-DOD | | 10/14/2021 11:4 | 1 | 160213 | 10/11/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 26.58363 | | 30 | 0 | 26.39385 | 0.0778 | 0.6 | 0 | 89% | 36 | 132 | 1% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 28.24898 | | 30 | 0 | 28.03049 | 0.0658 | 0.6 | 0 | 94% | 60 | 132 | 1% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.3226888 | | 0.4 | 0 | 0 | 0.000858 | 0.004 | 0 | 81% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772763 | B21100827-002 | HC-8015-DRO- | MS-DOD | | 10/15/2021 12:2 | 1 | 160213 | 10/11/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 8.735885 | | 9.7 | 0 | 0 | 0.170526 | 0.582 | 0 | 90% | 41 | 113 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.2503982 | | 0.388 | 0 | 0 | 0.0008323 | 0.00388 | 0 | 65% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772764 | B21100827-002 | HC-8015-DRO- | MSD-DOD | | 10/15/2021 1:50: | 1 | 160213 | 10/11/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772765 | LCS-RRO-1602 | HC-8015-DRO- | LCS-DOD | | 10/15/2021 3:16: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 4.273749 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 85% | 41 | 113 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.183726 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 92% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772766 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/15/2021 4:41: | 1 | R368710 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.540076 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.126184 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2174662 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 109% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.540076 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772767 | CCV_1013HP55 | HC-8015-DRO- | CCV | | 10/15/2021 5:24: | 1 | R368710 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.702664 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 94% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2074285 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772768 | CCV_1013HP55 | HC-8015-DRO- | CCV | | 10/15/2021 6:07: | 1 | R368710 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.86994 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 99% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.41158 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 103% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2055337 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772769 | B21100827-002 | HC-8015-DRO- | MSD-DOD | | 10/15/2021 7:39: | 1 | 160213 | 10/11/2021 | 0 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 8.055515 | | 9.7 | 0 | 8.735885 | 0.170526 | 0.582 | 0 | 83% | 41 | 113 | 8% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.2481266 | | 0.388 | 0 | 0 | 0.0008323 | 0.00388 | 0 | 64% | 56 | 125 | 0% | |

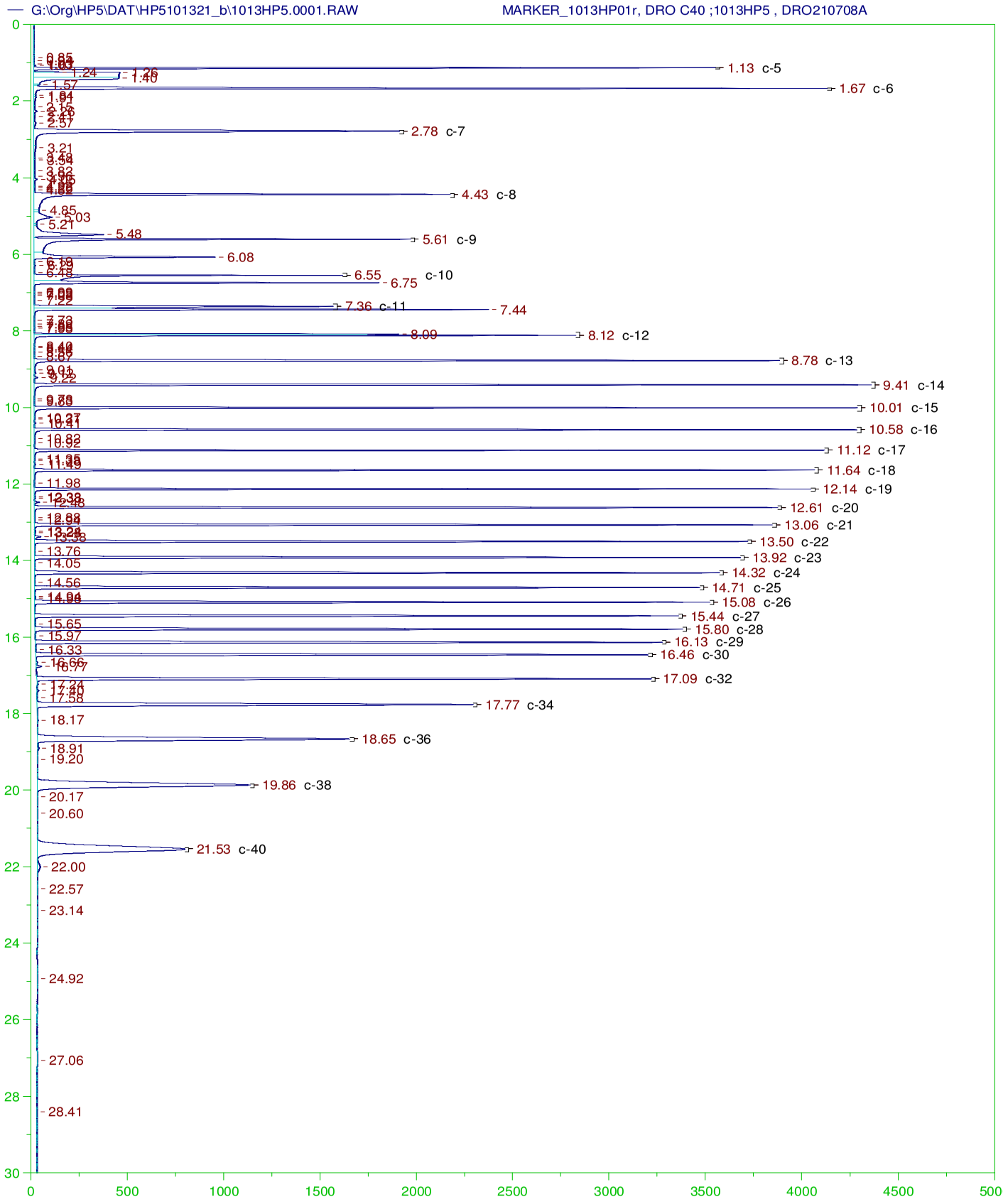
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772770 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/15/2021 8:22: | 1 | R368710 | | 0 | 0 | |

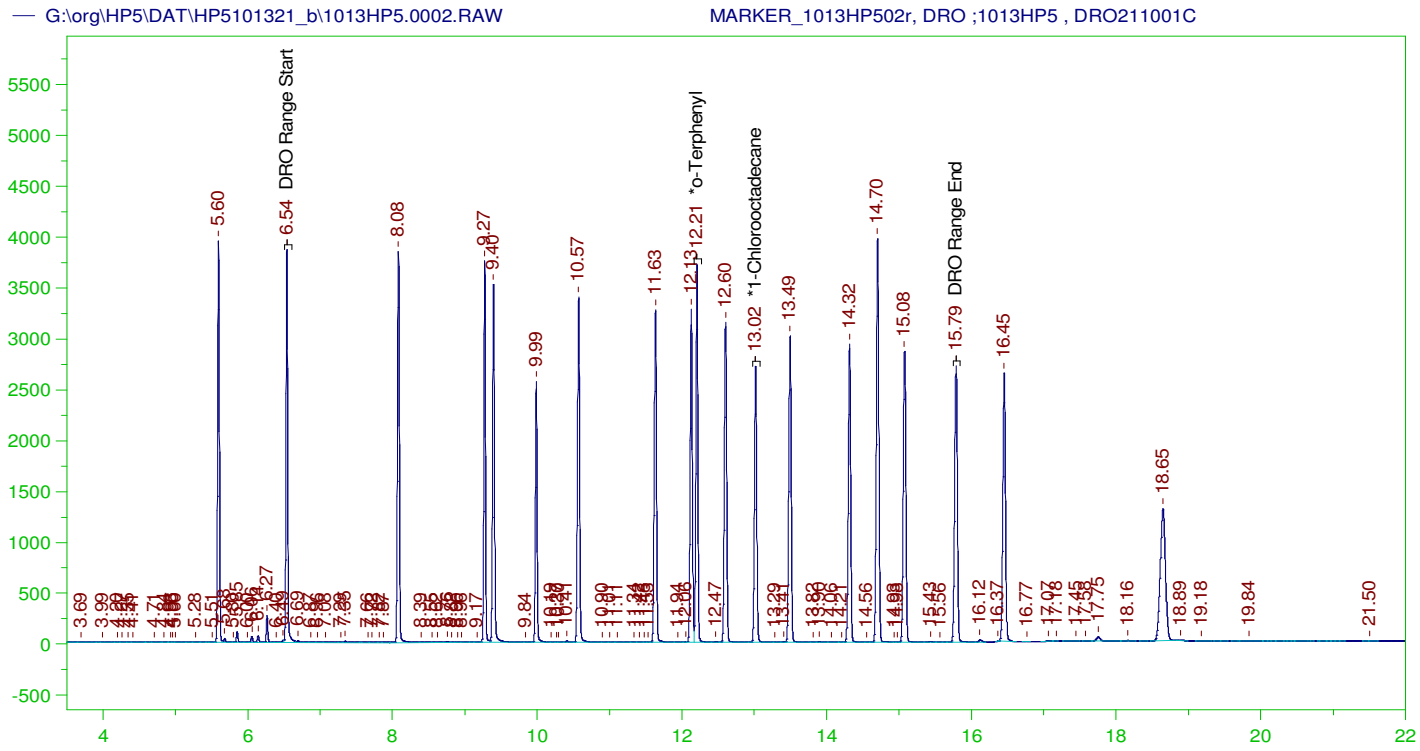
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 2.490119 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Diesel Range Organics (DRO) | A | mg/L | | 2.490119 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.051072 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2133216 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14772771 | CCV_1013HP56 | HC-8015-DRO- | CCV | | 10/15/2021 9:05: | 1 | R368710 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.733919 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 95% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2078541 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 80 | 120 | 0% | |

| Write Sequence | Insert Entries(Have the first cell for entries selecte | | | | | | |
|---|---|---|---|---|---|---|---|
| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.01r | MARKER_1013HP01r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.02r | MARKER_1013HP502r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.03r | CCV_1013HP503r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.04r | CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.06r | B21100828-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-101306-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-101306-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.07r | B21100828-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.08r | B21100834-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1010 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.09r | DCM-Baseline Check-V09 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.10r | B21100834-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.11r | DCM-Baseline Check-V11 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.12r | B21100834-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.15r | B21100827-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.16r | DCM-Baseline Check-V16 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.17r | MARKER_1013HP17r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.18r | MARKER_1013HP518r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.19r | CCV_1013HP519r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.20r | CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.21r | DCM-Baseline Check-V21 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.22r | LCS-RRO-160213 ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.24r | B21100827-002AMS-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.25r | DCM-Baseline Check-V25 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.26r | B21100827-002AMSD-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.28r | B21100827-001AMS ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101328-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.30r | B21100827-001AMSD ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101330-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.32r | MARKER_1013HP32r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.33r | MARKER_1013HP533r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.34r | CCV_1013HP534r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.35r | CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.36r | DCM-Baseline Check-V36 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.37r | DCM-Baseline Check-V37 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.38r | MARKER_1013HP38r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.39r | MARKER_1013HP539r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.40r | CCV_1013HP540r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.41r | CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.42r | DCM-Baseline Check-V42 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.43r | LCS-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.44r | MB-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.45r | B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.46r | B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1045 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.47r | B21100827-001AMS ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.48r | B21100827-001AMSD ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.49r | B21100827-002AMS-RRO ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.50r | DCM-Baseline Check-V50 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.51r | B21100827-002AMSD-RRO ;1013HP5 , SGT-NEEDS RR Instrument misinjection | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.52r | DCM-Baseline Check-V52 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.53r | LCS-RRO-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.54r | MARKER_1013HP54r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.55r | MARKER_1013HP555r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.56r | CCV_1013HP556r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.57r | CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.58r | DCM-Baseline Check-V58 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.59r | B21100827-002AMSD-RRO ;1013HP5 , SGT-RR | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.60r | MARKER_1013HP560r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.61r | CCV_1013HP561r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\Org\HP5\DAT\HP5101321_b\1013HP5.0001.RAW
MARKER_1013HP01r, DRO C40 ;1013HP5 , DRO210708A
1.13 c-5
1.67 c-6
2.78 c-7
4.43 c-8
5.61 c-9
6.55 c-10
7.36 c-11
8.12 c-12
8.78 c-13
9.41 c-14
10.01 c-15
10.58 c-16
11.12 c-17
11.64 c-18
12.14 c-19
12.61 c-20
13.06 c-21
13.50 c-22
13.92 c-23
14.32 c-24
14.71 c-25
15.08 c-26
15.44 c-27
15.80 c-28
16.13 c-29
16.46 c-30
17.09 c-32
17.77 c-34
18.65 c-36
19.86 c-38
21.53 c-40
G:\org\HP5\dat\HP5101321_b\Review\001_MARKER_1013HP01r_CSC211011.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

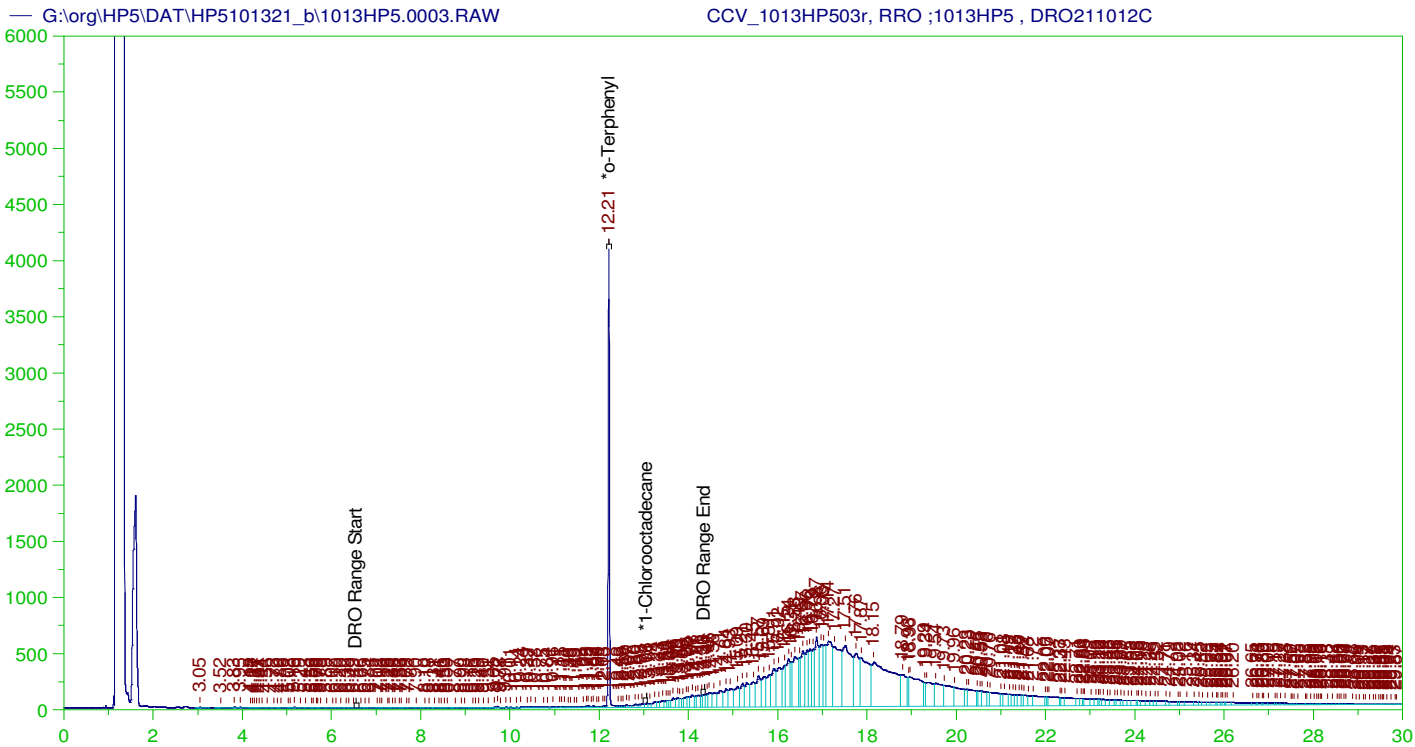
Sample Name: MARKER_1013HP502r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0002.RAW
Date & Time Acquired: 10/13/2021 2:37:20 PM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .2 | .205 | 102.7 | - |
| *1-Chlorooctadecane | 13.018 | .2 | .166 | 83.19 | - |

DRO Area:9.386948E+07 DRO Amount: 3.186625
TEH Area:1.14918E+08 TEH Amount: 3.901167

G:\org\HP5\dat\HP5101321_b\Review\002_MARKER_1013HP502r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP503r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW
Date & Time Acquired: 10/13/2021 3:19:40 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 230.954 | 115.48 | - |
| *1-Chlorooctadecane | 13.06 | 200. | 4.243 | 2.12 | - |

DRO Area:7023046 DRO Amount: 246.0565
TEH (Oil Range) Area:1.402995E+08 TEH (Oil Range) Amount: 4915.474

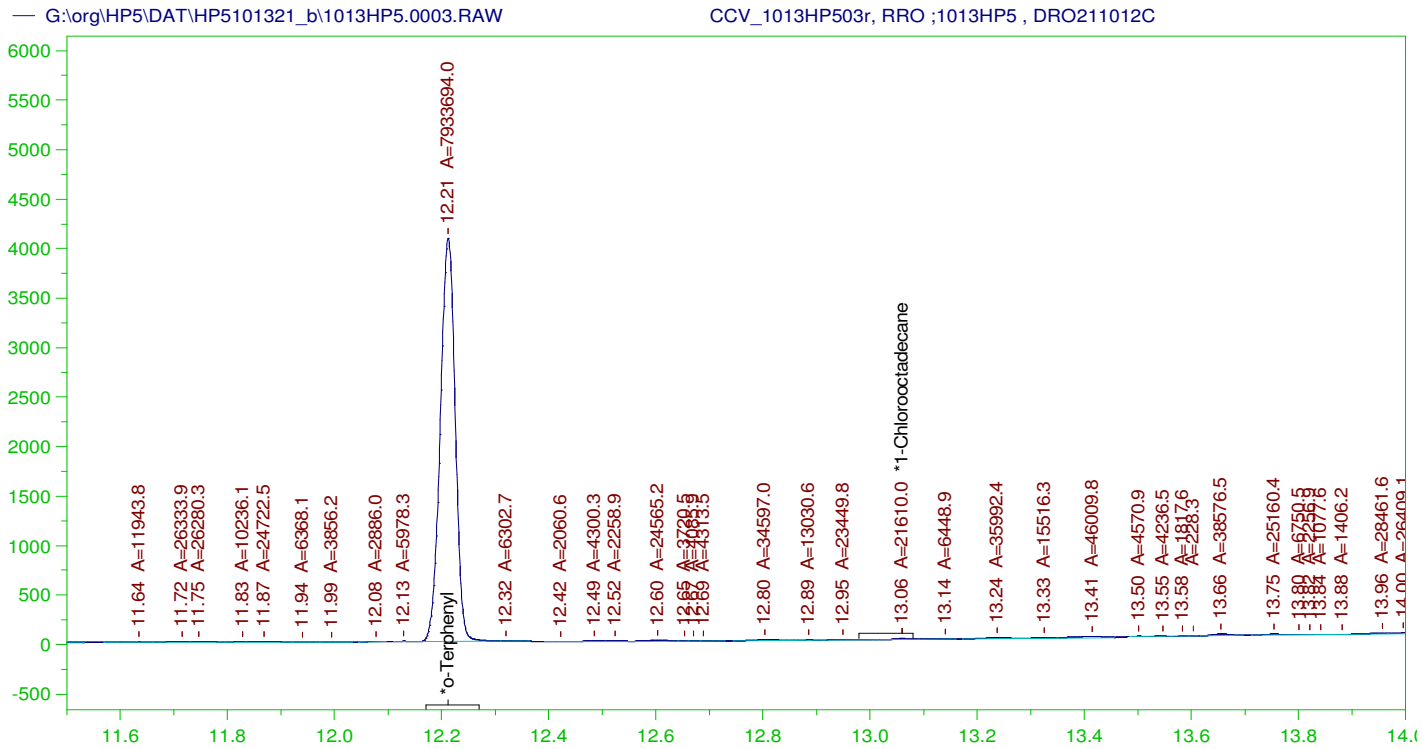
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4915.47 | 98.31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 230.954 | 115.48 | 85-115 |
| *1-Chlorooctadecane | 13.06 | 200. | 4.243 | 2.12 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\003_CCV_1013HP503r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP503r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW
Date & Time Acquired: 10/13/2021 3:19:40 PM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 226.216 | 113.11 | - |
| *1-Chlorooctadecane | 13.06 | 200. | .616 | .31 | - |

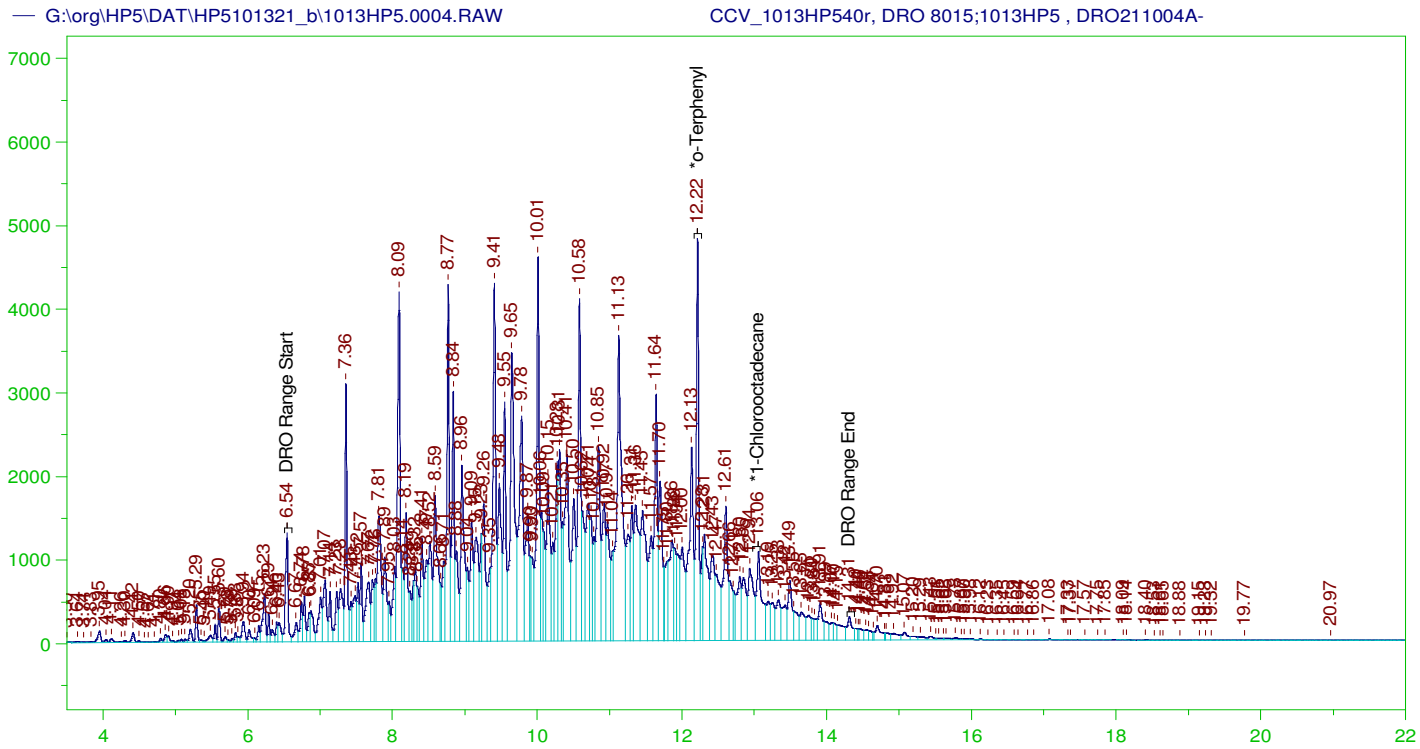
DRO Area:919508.9 DRO Amount: 32.21553
TEH Area:2216074 TEH Amount: 77.64143

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 77.64 | 1.55 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 226.216 | 113.11 | 85-115 |
| *1-Chlorooctadecane | 13.06 | 200. | .616 | .31 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\003_CCV_1013HP503r_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW
Date & Time Acquired: 10/13/2021 4:02:01 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 343.222 | 171.61 | - |
| *1-Chlorooctadecane | 13.057 | 200. | 155.465 | 77.73 | - |

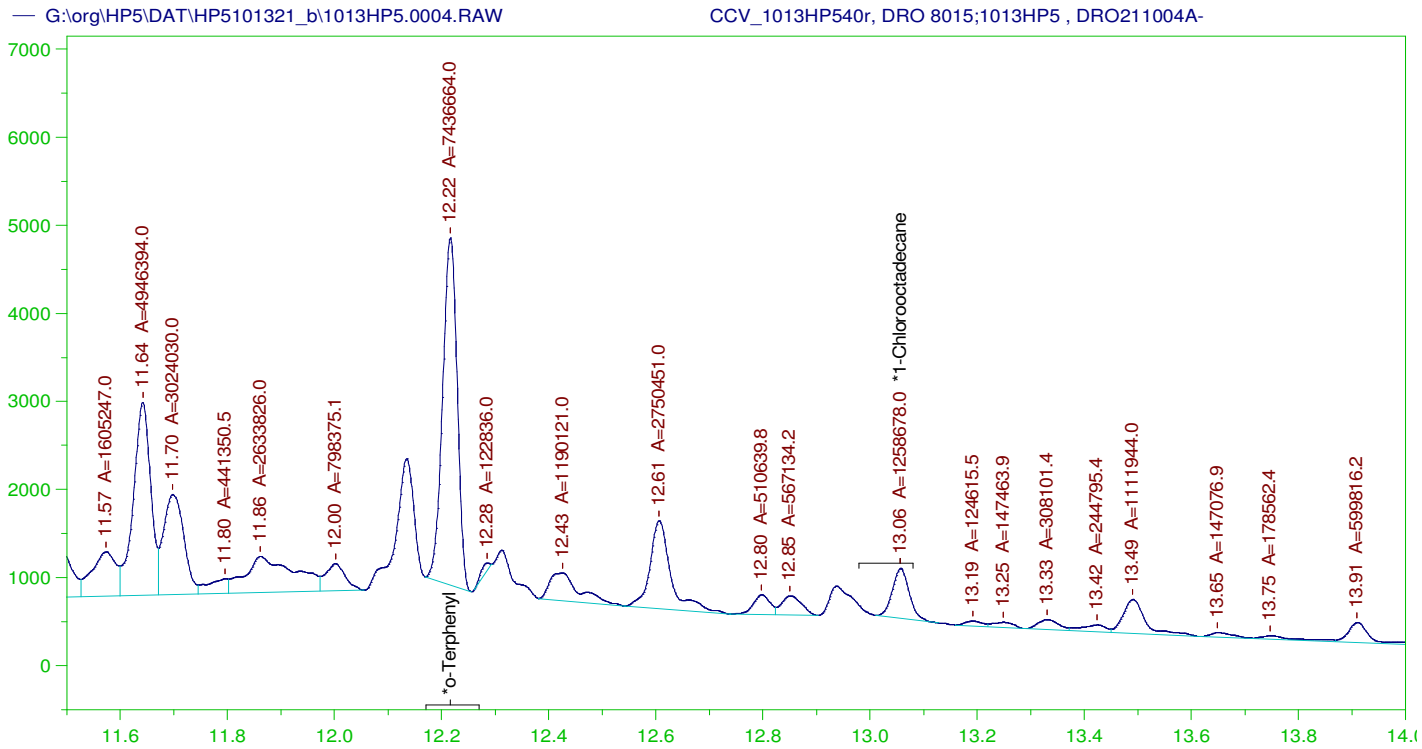
DRO Area:4.507372E+08 DRO Amount: 15301.36
TEH Area:4.671356E+08 TEH Amount: 15858.04

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15858.04 | 105.72 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 343.222 | 171.61 | 85-115 |
| *1-Chlorooctadecane | 13.057 | 200. | 155.465 | 77.73 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\004_CCV_1013HP540r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW
Date & Time Acquired: 10/13/2021 4:02:01 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 212.044 | 106.02 | - |
| *1-Chlorooctadecane | 13.057 | 200. | 35.889 | 17.94 | - |

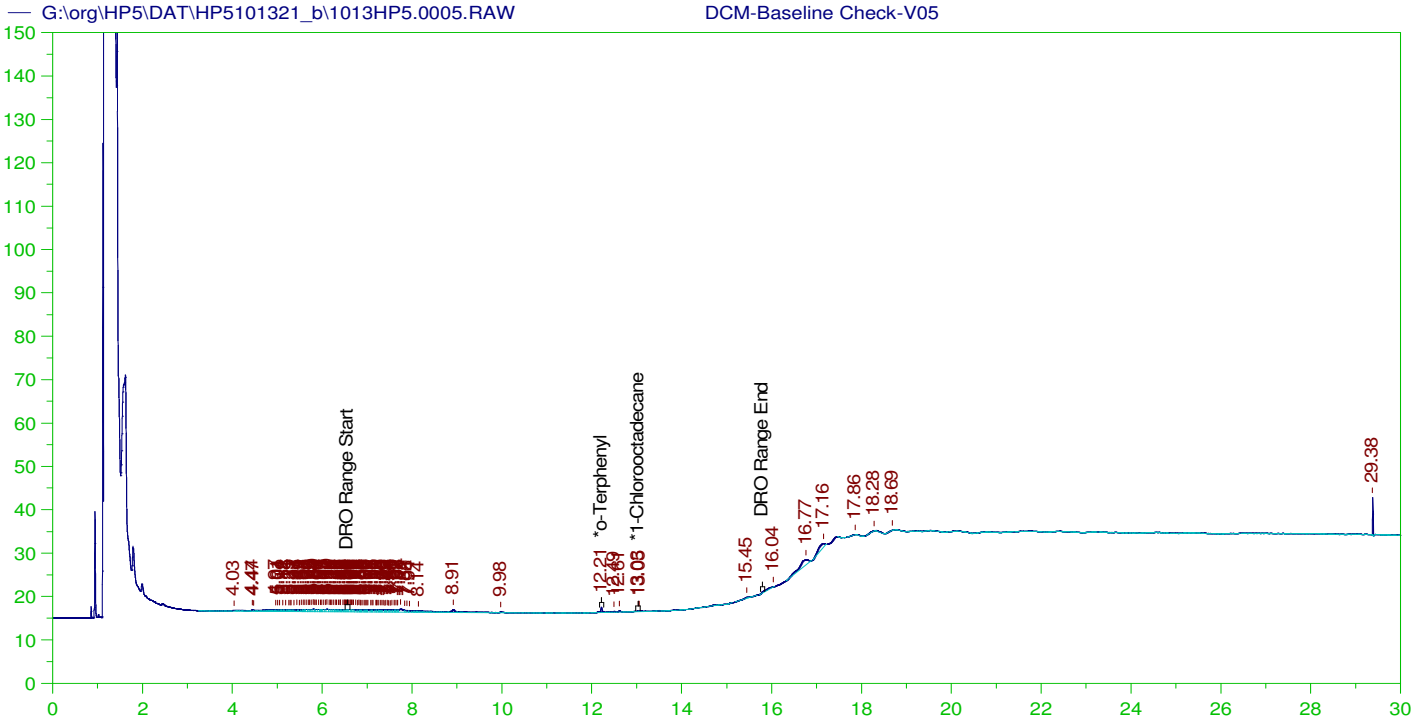
DRO Area:2.493131E+08 DRO Amount: 8463.533
TEH Area:2.590718E+08 TEH Amount: 8794.816

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8794.82 | 58.63 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 212.044 | 106.02 | 85-115 |
| *1-Chlorooctadecane | 13.057 | 200. | 35.889 | 17.94 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\004_CCV_1013HP540r_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0005.RAW
Date & Time Acquired: 10/13/2021 4:44:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

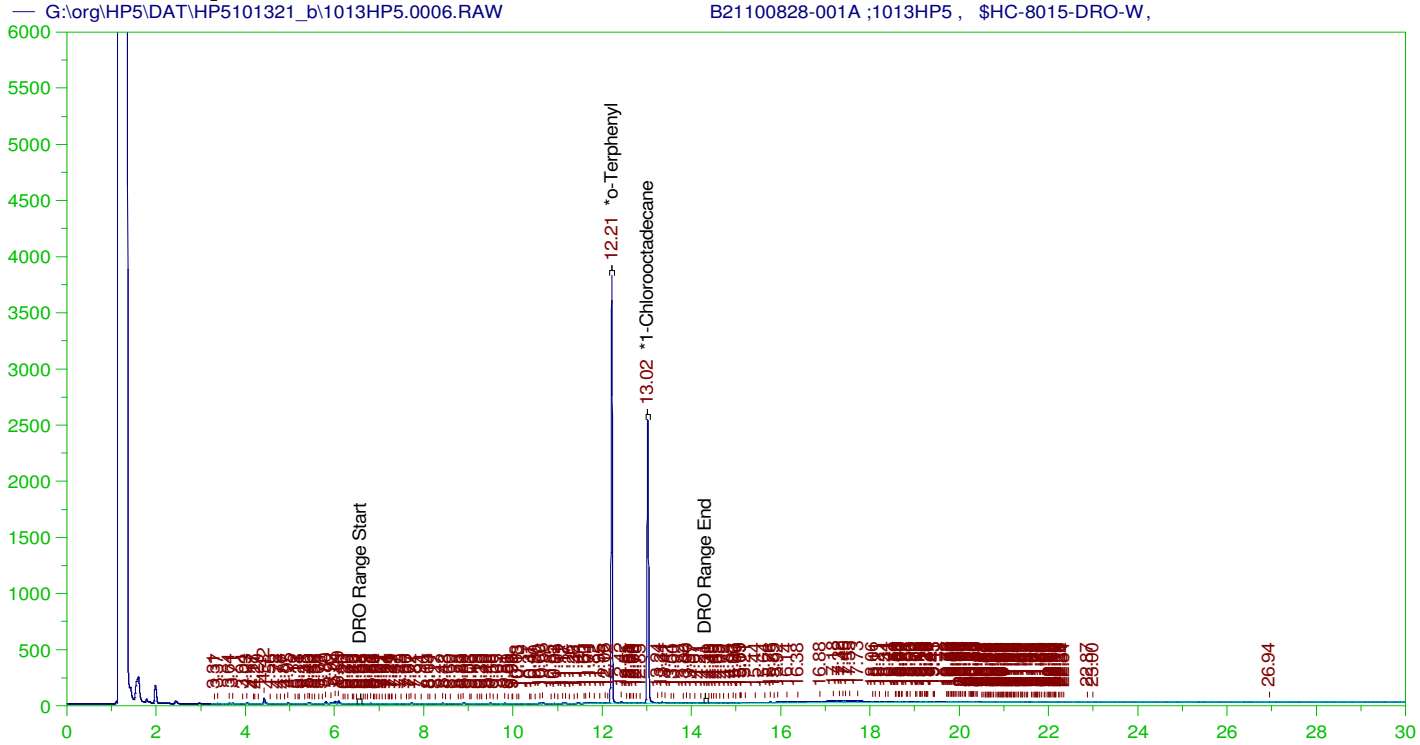
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.211 | 200. | .085 | .04 | - |
| *1-Chlorooctadecane | 13.031 | 200. | .016 | .01 | - |

DRO Area:75849.56 DRO Amount: 2.574896
TEH Area:186375.5 TEH Amount: 6.326963

G:\org\HP5\dat\HP5101321_b\Review\005_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1780 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW B21100828-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DR_8015-101306-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

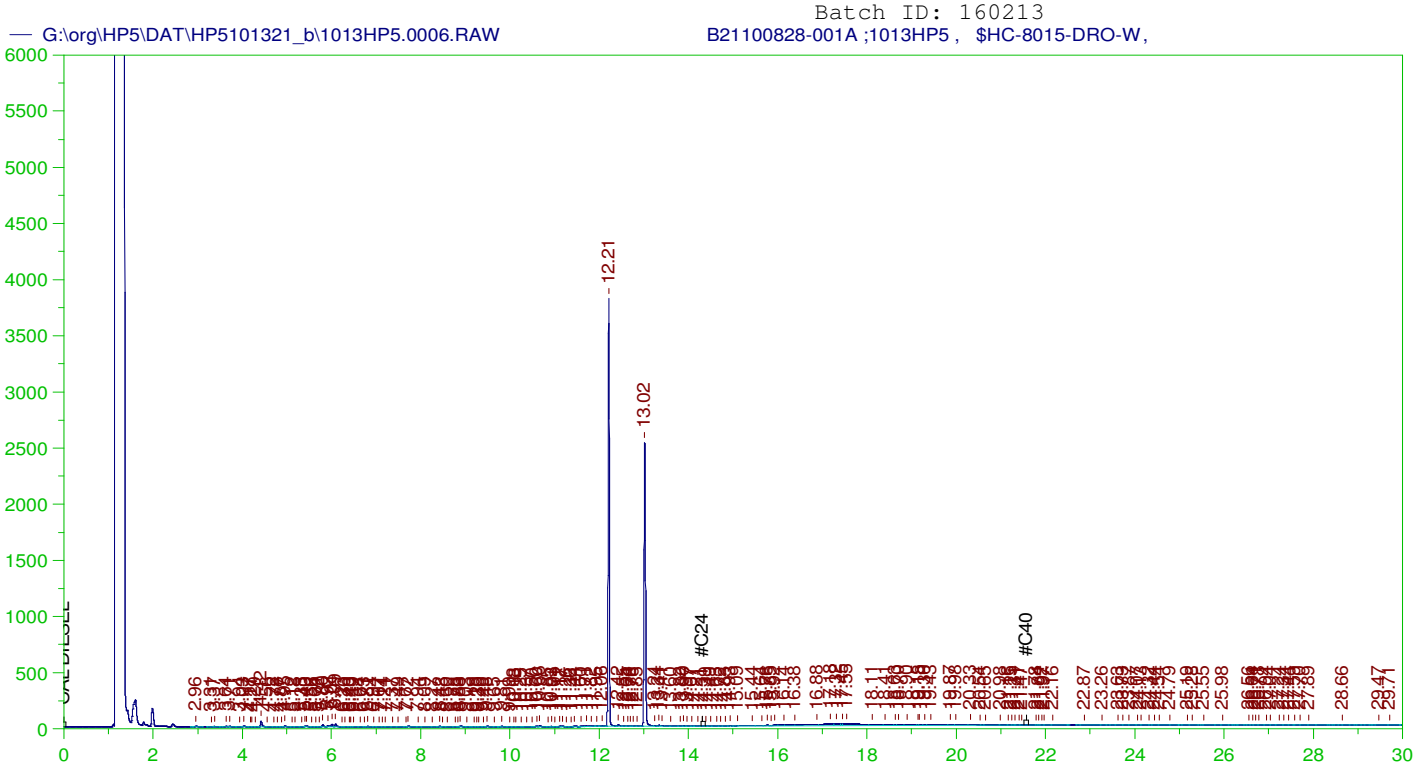
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.21 | .19 | .199 | 104.36 | - |
| *1-Chlorooctadecane | 13.019 | .19 | .151 | 79.49 | - |

DRO Area:450173.7 DRO Amount: 0.0145545
TEH Area:4137389 TEH Amount: 0.1337653

G:\org\HP5\dat\HP5101321_b\Review\006_B21100828-001A_DR_8015-101306-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DR_OIL-101306-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

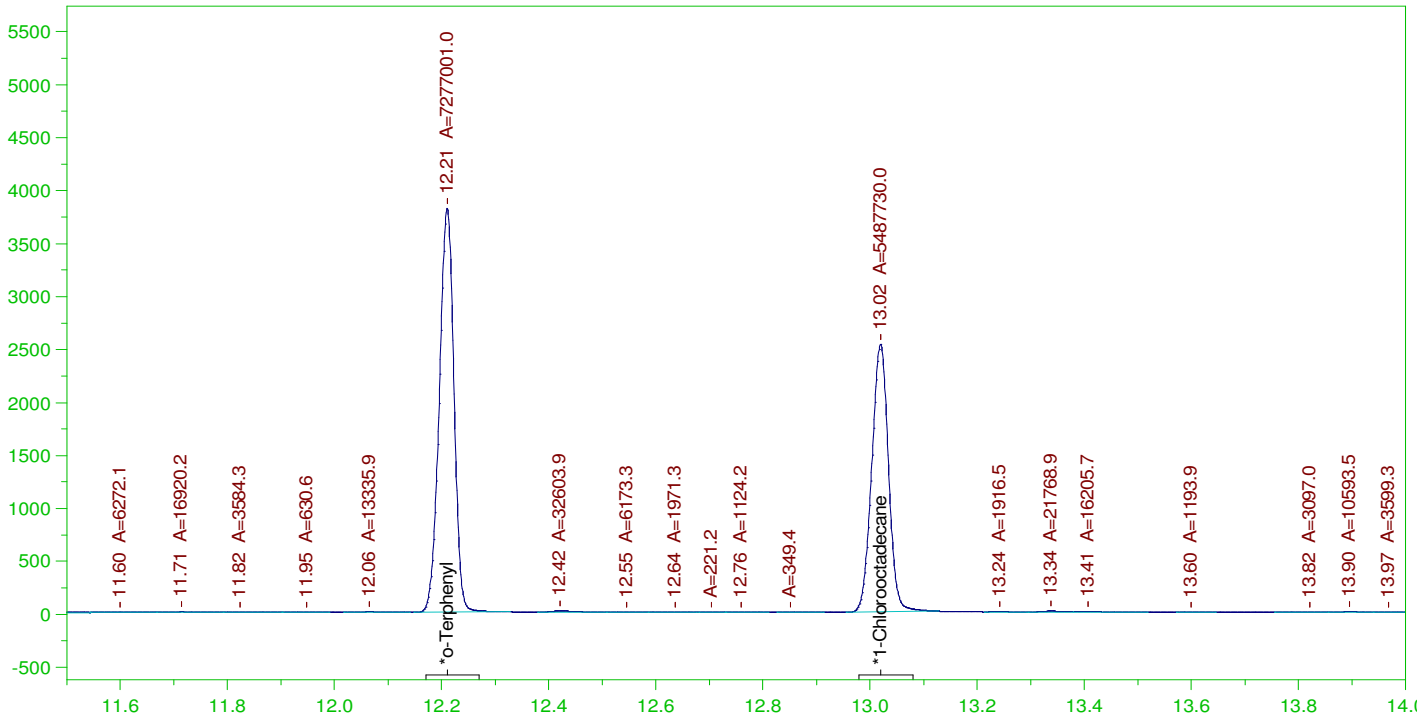
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:3114642 RRO AMOUNT: 0.1039269

G:\org\HP5\dat\HP5101321_b\Review\006_B21100828-001A_DR_OIL-101306-S-AJ-L%.xls

**ERH1780 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW B21100828-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

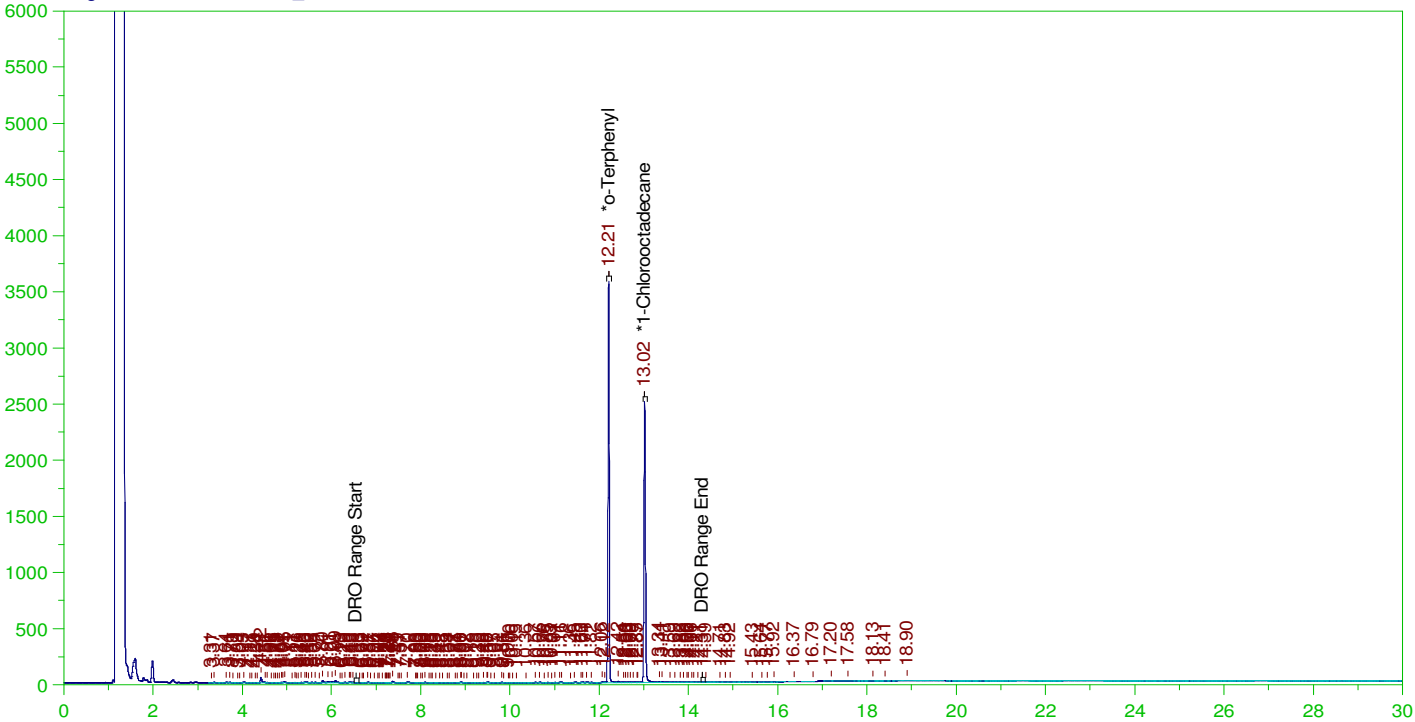
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.21 | .19 | .198 | 103.75 | - |
| *1-Chlorooctadecane | 13.019 | .19 | .149 | 78.24 | - |

DRO Area:385324.5 DRO Amount: 1.245787E-02
TEH Area:1007568 TEH Amount: 3.257553E-02

G:\org\HP5\dat\HP5101321_b\Review\006_B21100828-001A_DS_8015-area-HS-L#.xls

**ERH1781 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW B21100828-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

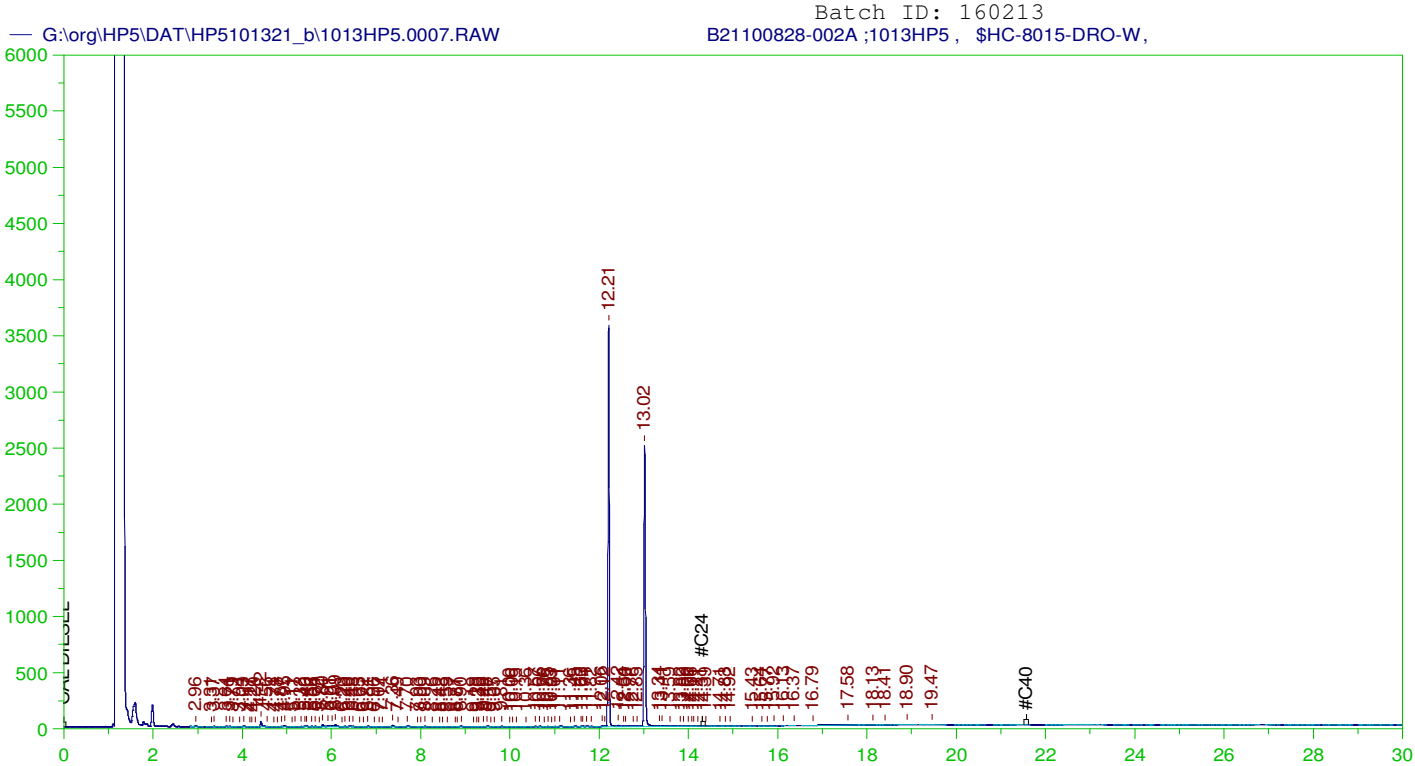
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .19 | .189 | 99.5 | - |
| *1-Chlorooctadecane | 13.017 | .19 | .151 | 79.58 | - |

DRO Area:474748.8 DRO Amount: 0.0152763
TEH Area:1024456 TEH Amount: 3.296458E-02

G:\org\HP5\dat\HP5101321_b\Review\007_B21100828-002A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

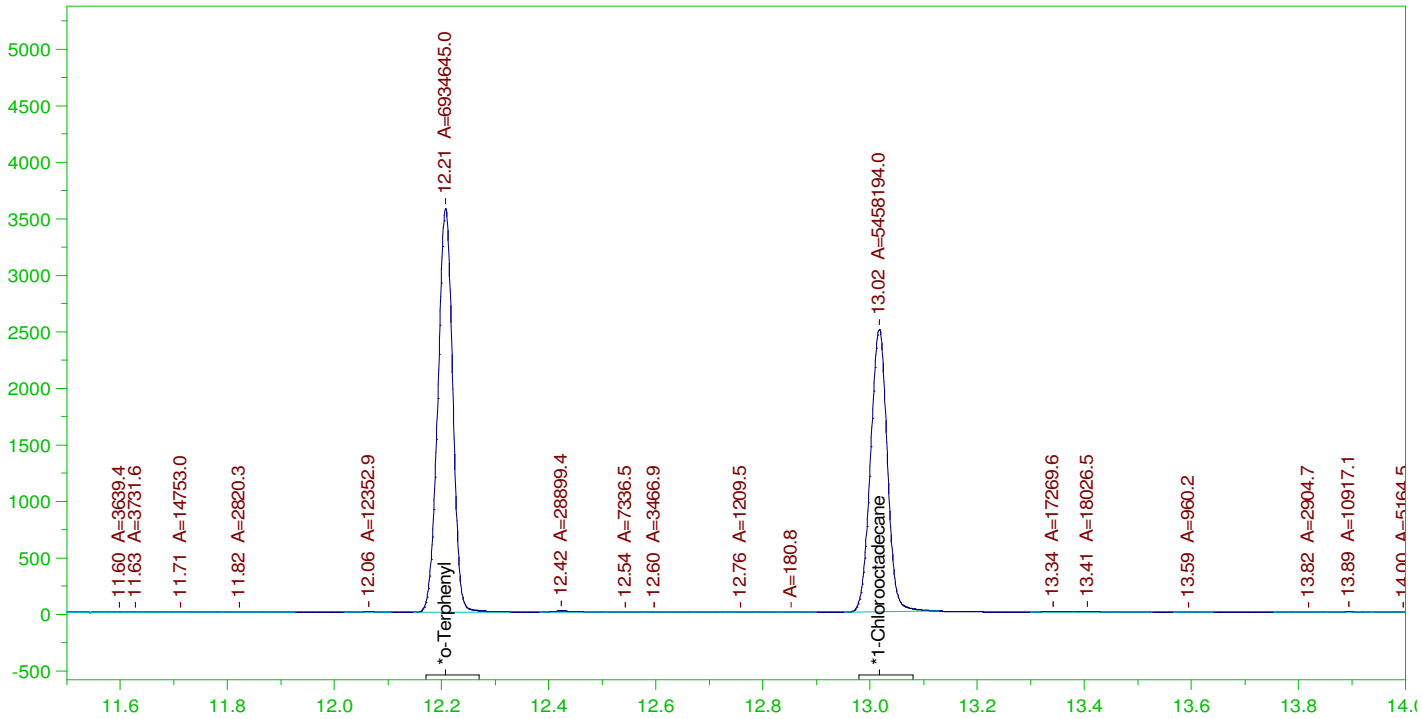
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:120457.5 RRO AMOUNT: 4.000284E-03

G:\org\HP5\dat\HP5101321_b\Review\007_B21100828-002A_DR_OIL-S-AJ-L%.xls

**ERH1781 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW B21100828-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

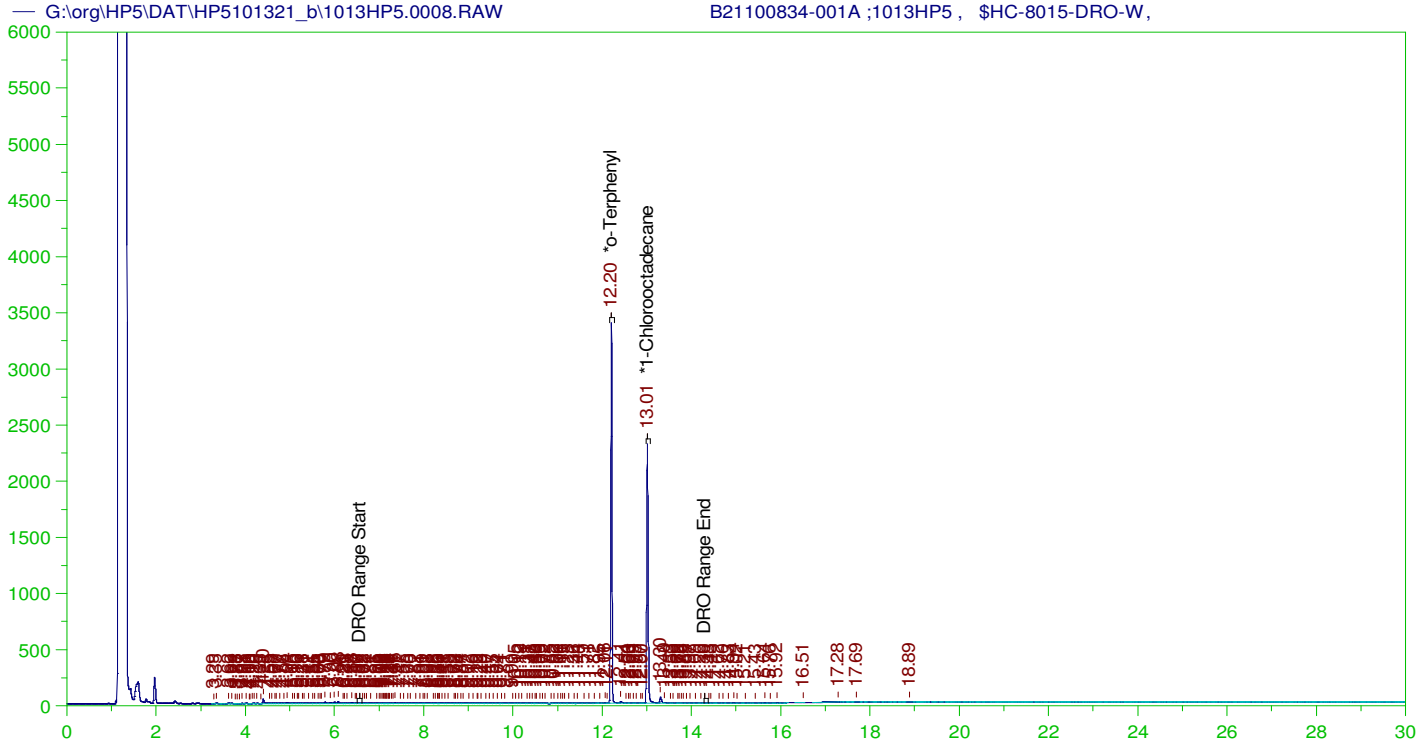
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .19 | .187 | 98.87 | - |
| *1-Chlorooctadecane | 13.017 | .19 | .148 | 77.82 | - |

DRO Area:391548.9 DRO Amount: 1.259912E-02
TEH Area:1005520 TEH Amount: 3.235526E-02

G:\org\HP5\dat\HP5101321_b\Review\007_B21100828-002A_DS_8015-area-HS-L#.xls

**ERH1771 (RHMW14-03)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW B21100834-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

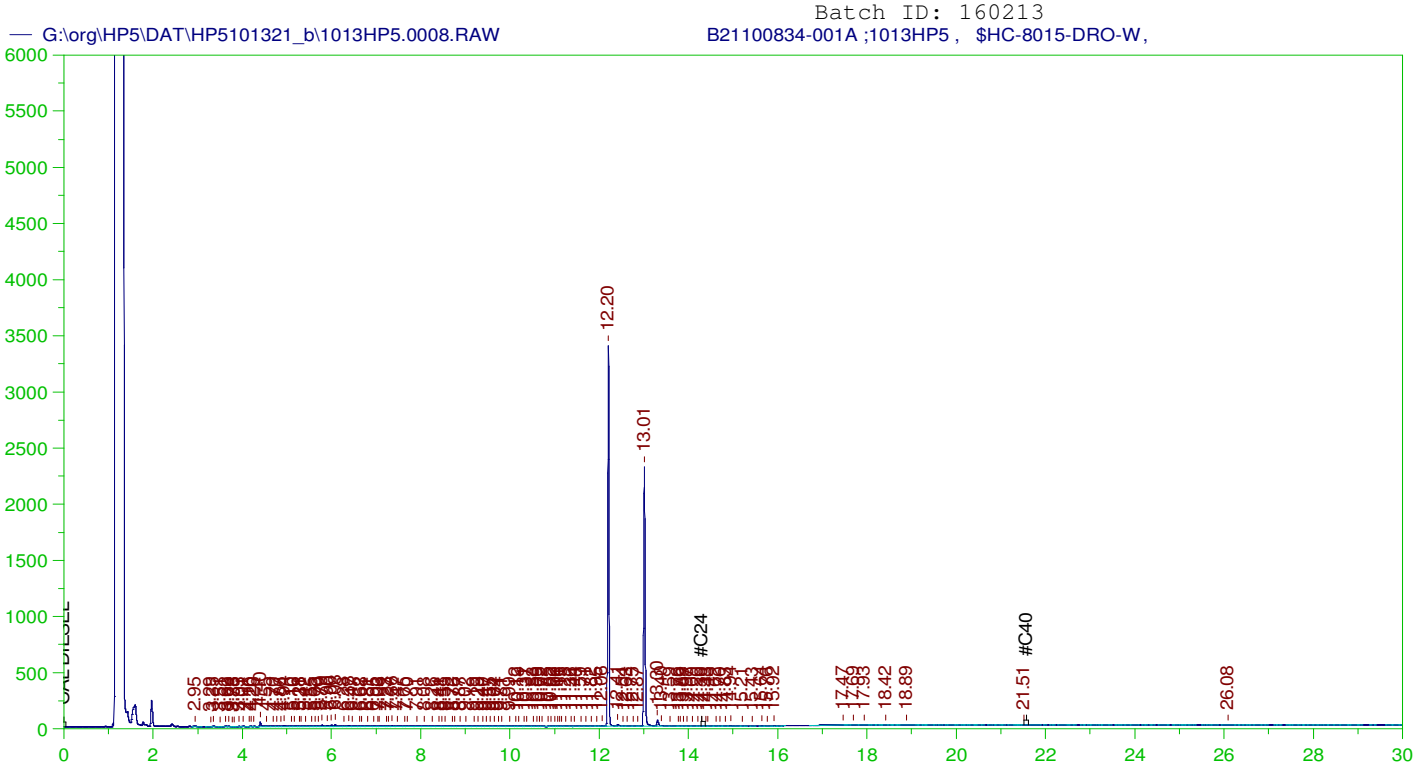
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | .198 | .183 | 92.4 | - |
| *1-Chlorooctadecane | 13.012 | .198 | .146 | 73.62 | - |

DRO Area:732105.1 DRO Amount: 0.024607
TEH Area:1328519 TEH Amount: 4.465324E-02

G:\org\HP5\dat\HP5101321_b\Review\008_B21100834-001A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:98411.37 RRO AMOUNT: 3.413762E-03

G:\org\HP5\dat\HP5101321_b\Review\008_B21100834-001A_DR_OIL-S-AJ-L%.xls

**ERH1771 (RHMW14-03)** Batch ID: 160213

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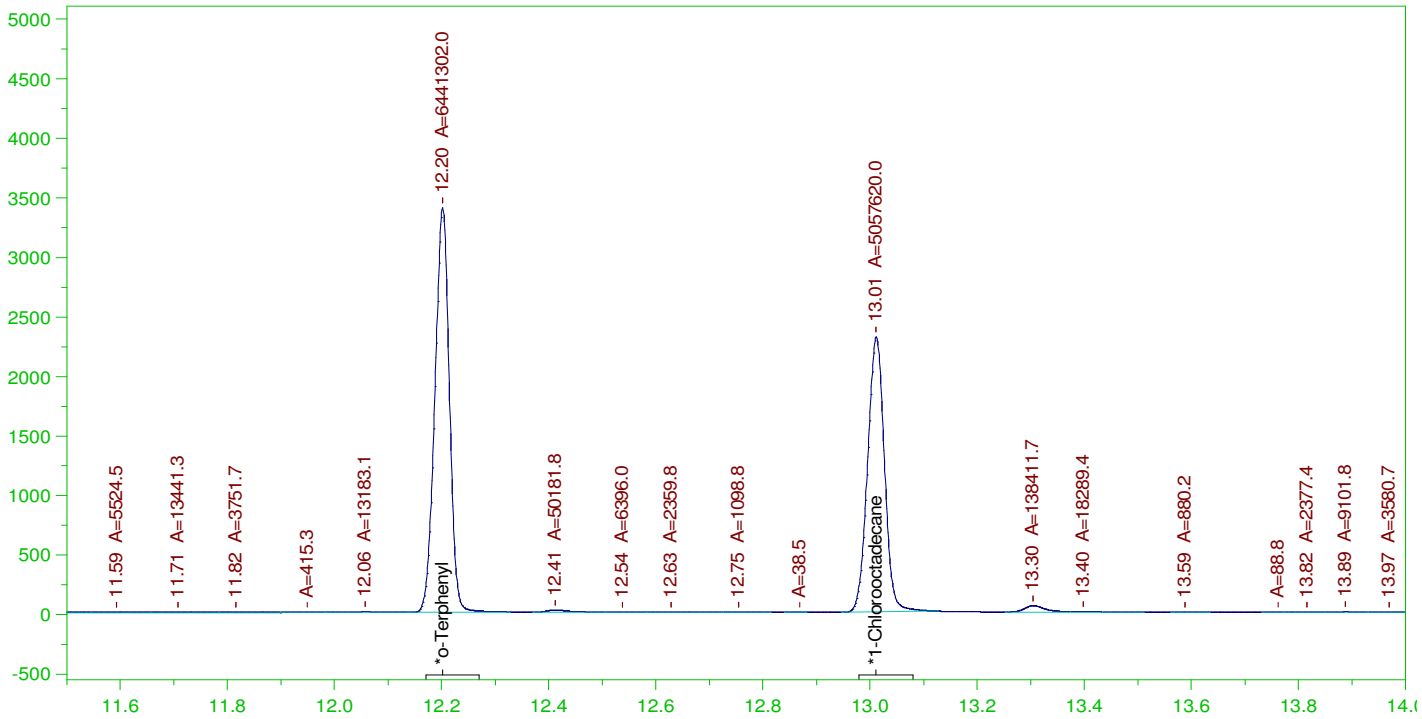


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | .198 | .182 | 91.83 | - |
| *1-Chlorooctadecane | 13.012 | .198 | .143 | 72.1 | - |

DRO Area:677260.6 DRO Amount: 0.0227636
TEH Area:1316540 TEH Amount: 0.0442506

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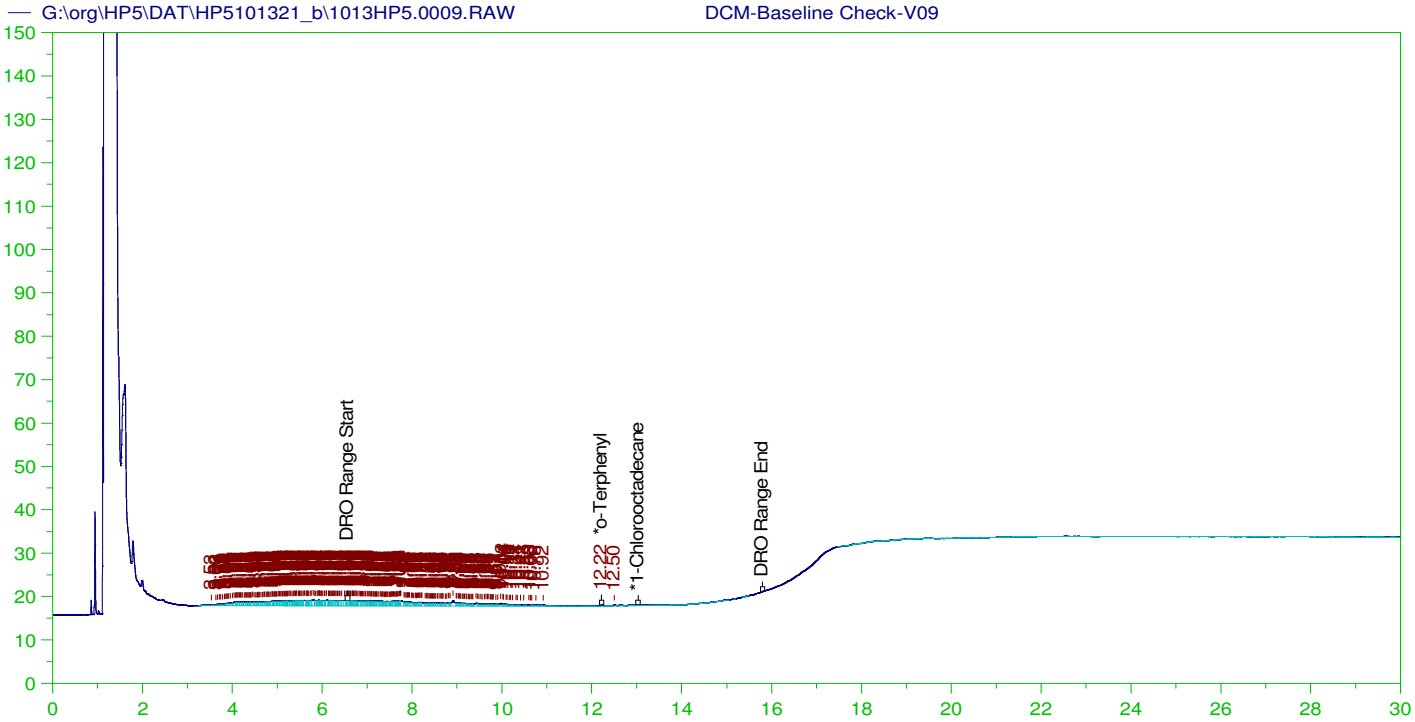



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V09
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0009.RAW
Date & Time Acquired: 10/13/2021 7:36:33 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

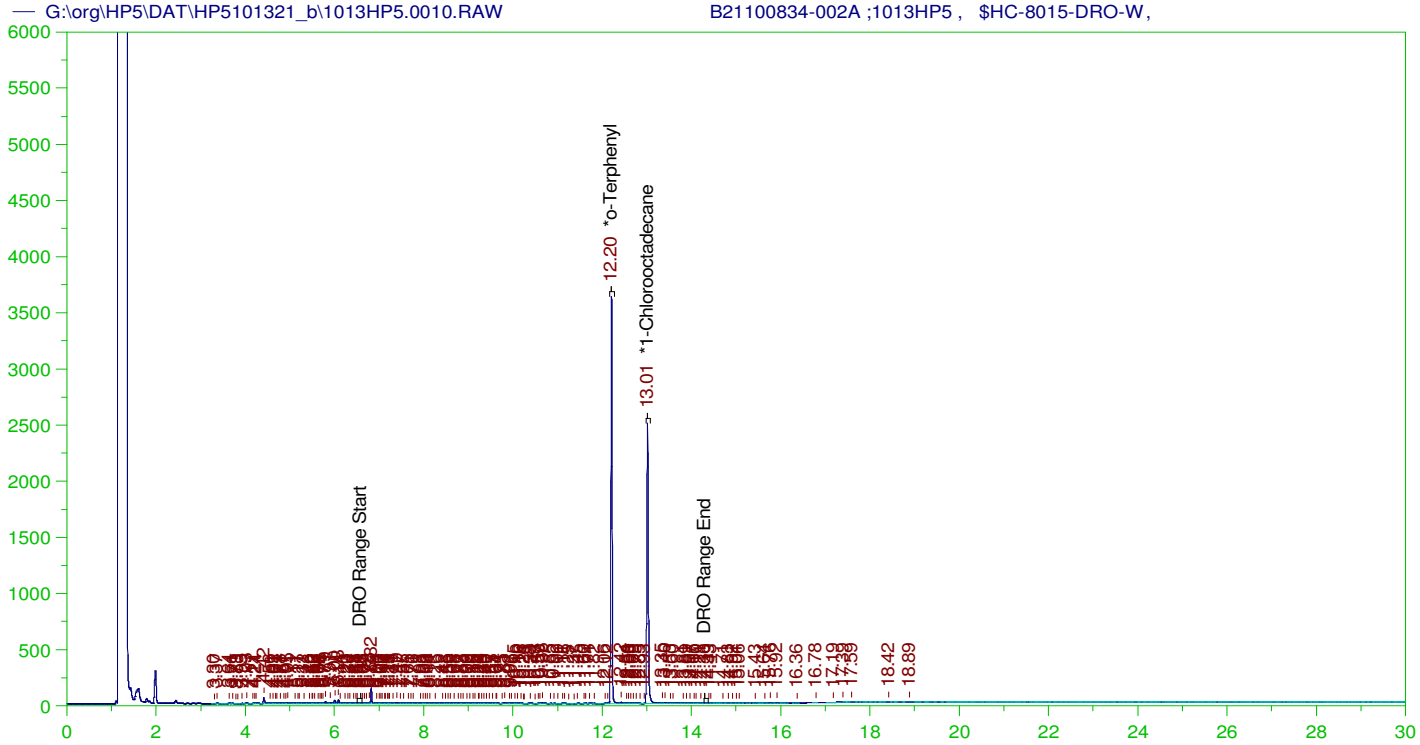
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | .028 | .01 | - |
| *1-Chlorooctadecane | 29.978 | 200. | . | . | - |

DRO Area:213604.1 DRO Amount: 7.251304
TEH Area:398975.3 TEH Amount: 13.54418

G:\org\HP5\dat\HP5101321_b\Review\009_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1773 (Field Blank)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW B21100834-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

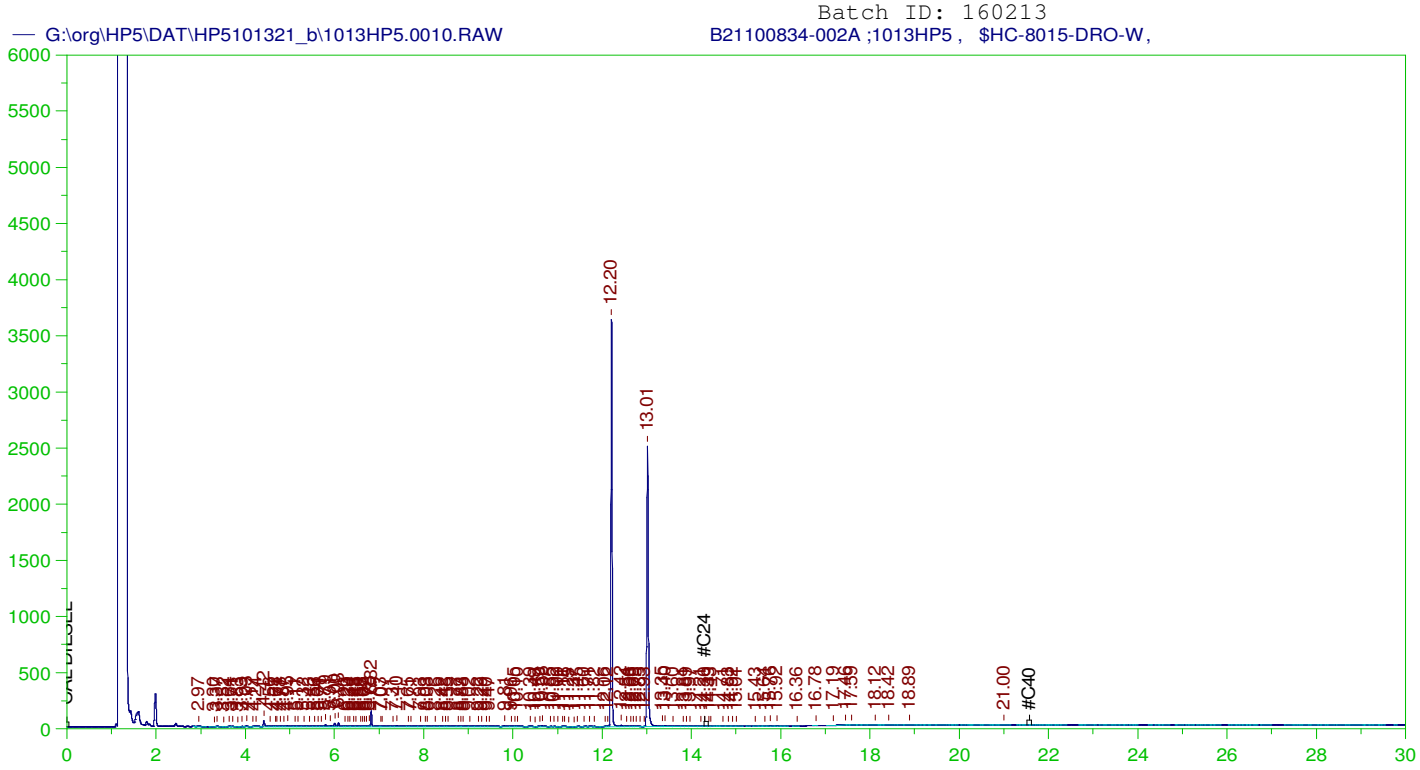
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .19 | .191 | 100.04 | - |
| *1-Chlorooctadecane | 13.014 | .19 | .154 | 80.78 | - |

DRO Area:1014568 DRO Amount: 3.280184E-02
TEH Area:1728863 TEH Amount: 5.589564E-02

G:\org\HP5\dat\HP5101321_b\Review\010_B21100834-002A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

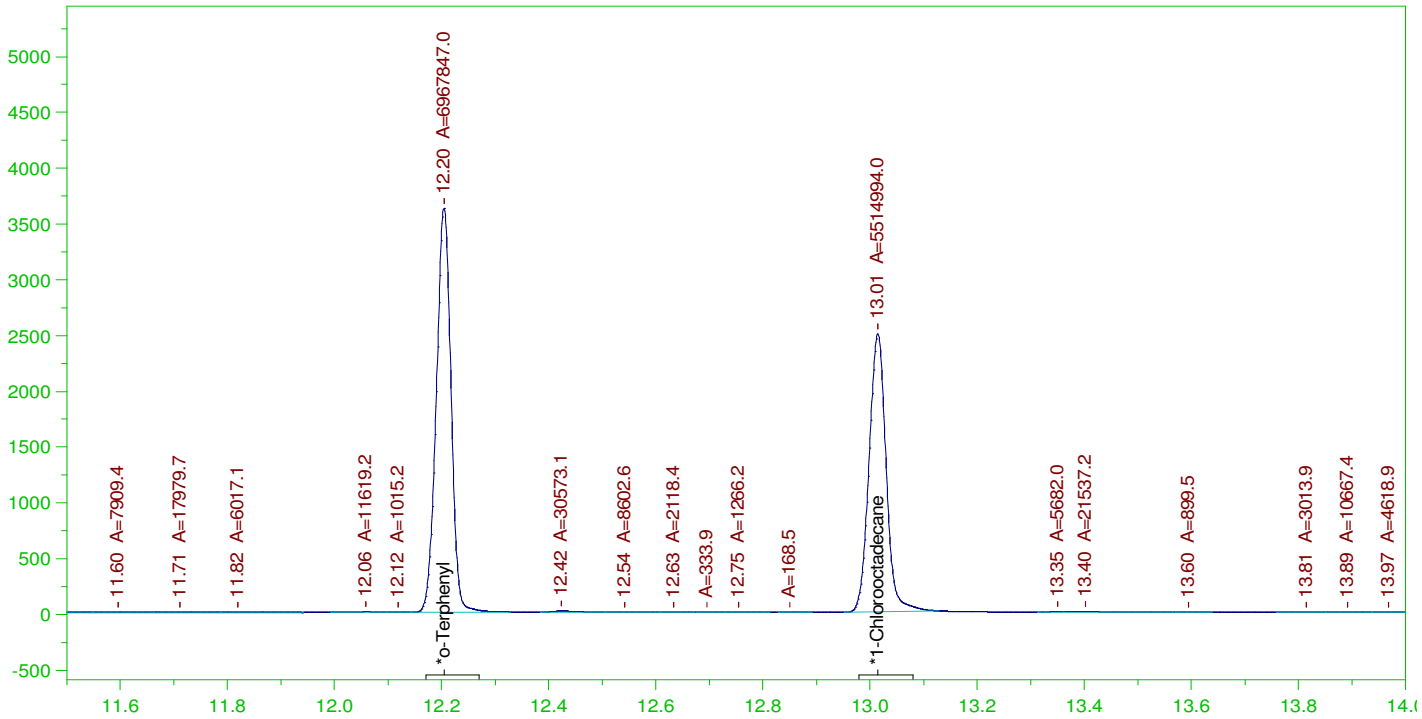
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:72106.56 RRO AMOUNT: 2.405996E-03

G:\org\HP5\dat\HP5101321_b\Review\010_B21100834-002A_DR_OIL-S-AJ-L%.xls

**ERH1773 (Field Blank)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW B21100834-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

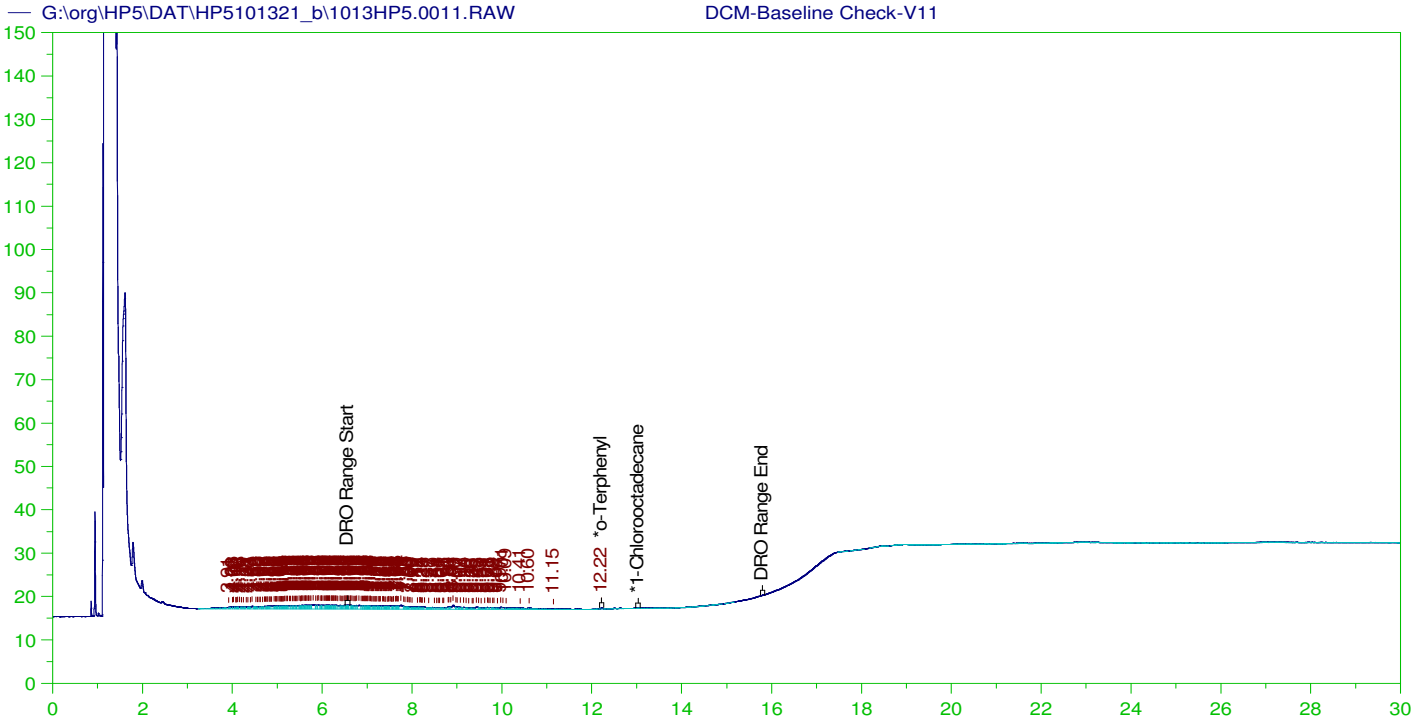
Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .19 | .189 | 99.34 | - |
| *1-Chlorooctadecane | 13.014 | .19 | .15 | 78.63 | - |

DRO Area:959395.5 DRO Amount: 3.101808E-02
TEH Area:1750559 TEH Amount: 5.659707E-02

G:\org\HP5\dat\HP5101321_b\Review\010_B21100834-002A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V11
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0011.RAW
Date & Time Acquired: 10/13/2021 9:02:18 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

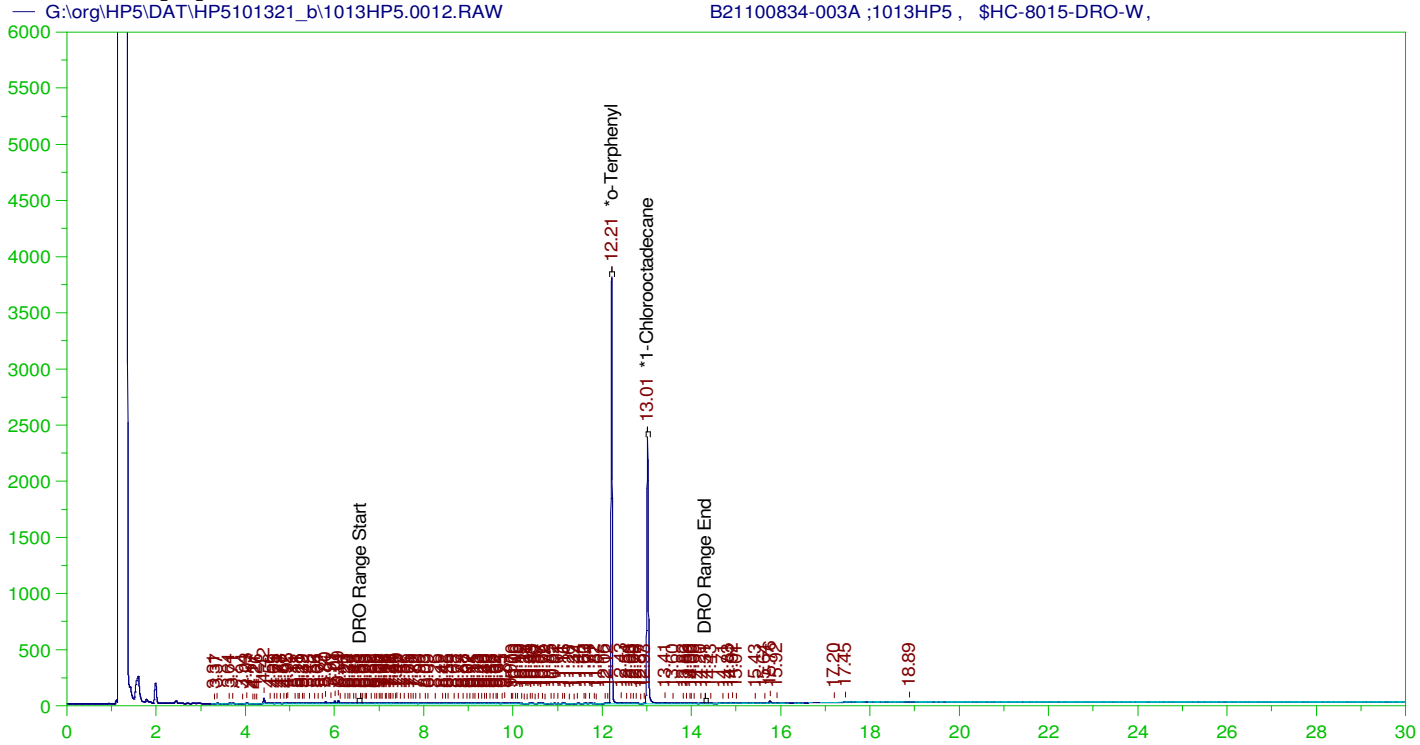
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.215 | 200. | .03 | .02 | - |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | - |

DRO Area:125980.2 DRO Amount: 4.276702
TEH Area:232059.3 TEH Amount: 7.87781

G:\org\HP5\dat\HP5101321_b\Review\011_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1774 (Equipment Blank)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW B21100834-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

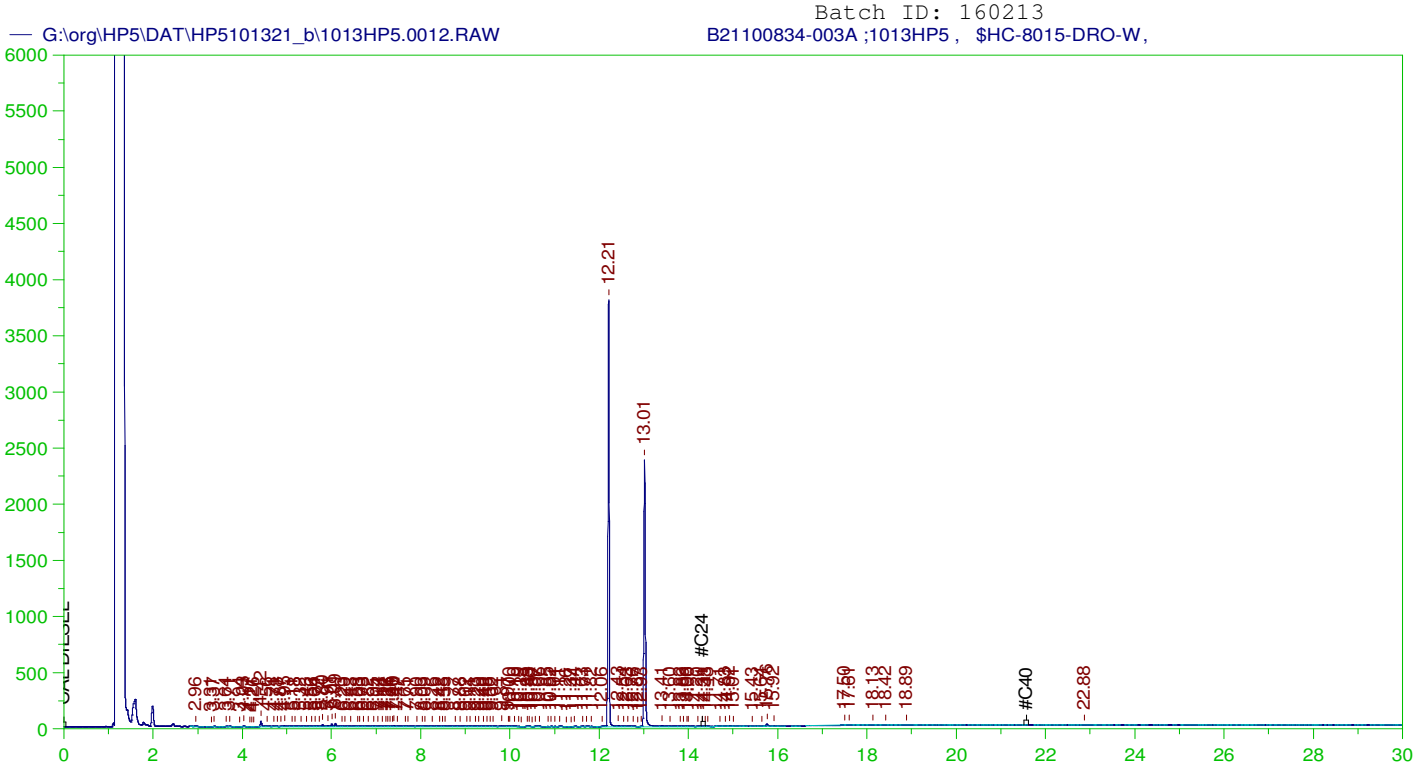
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .192 | .199 | 103.31 | - |
| *1-Chlorooctadecane | 13.015 | .192 | .147 | 76.59 | - |

DRO Area:686756.1 DRO Amount: 2.241691E-02
TEH Area:1382057 TEH Amount: 4.511274E-02

G:\org\HP5\dat\HP5101321_b\Review\012_B21100834-003A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:140112.2 RRO AMOUNT: 4.72011E-03

G:\org\HP5\dat\HP5101321_b\Review\012_B21100834-003A_DR_OIL-S-AJ-L%.xls

**ERH1774 (Equipment Blank)** Batch ID: 160213

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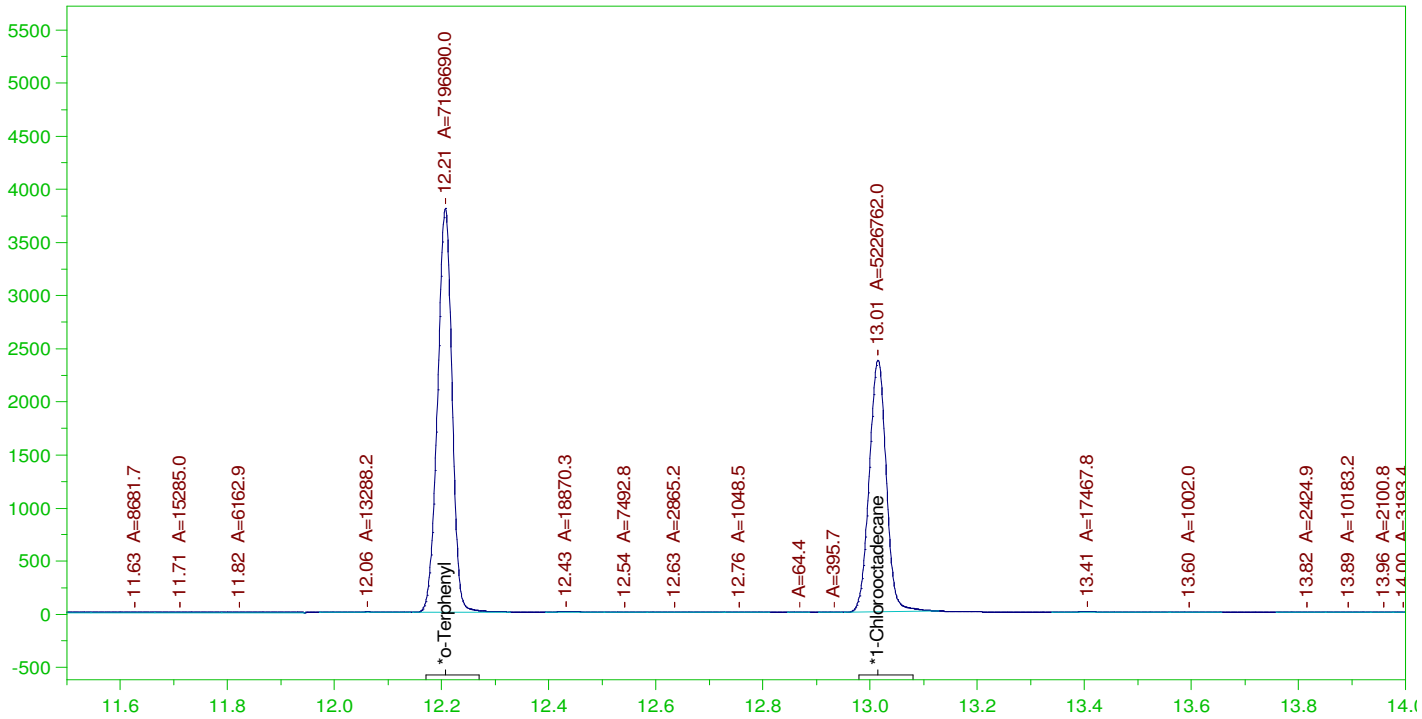



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

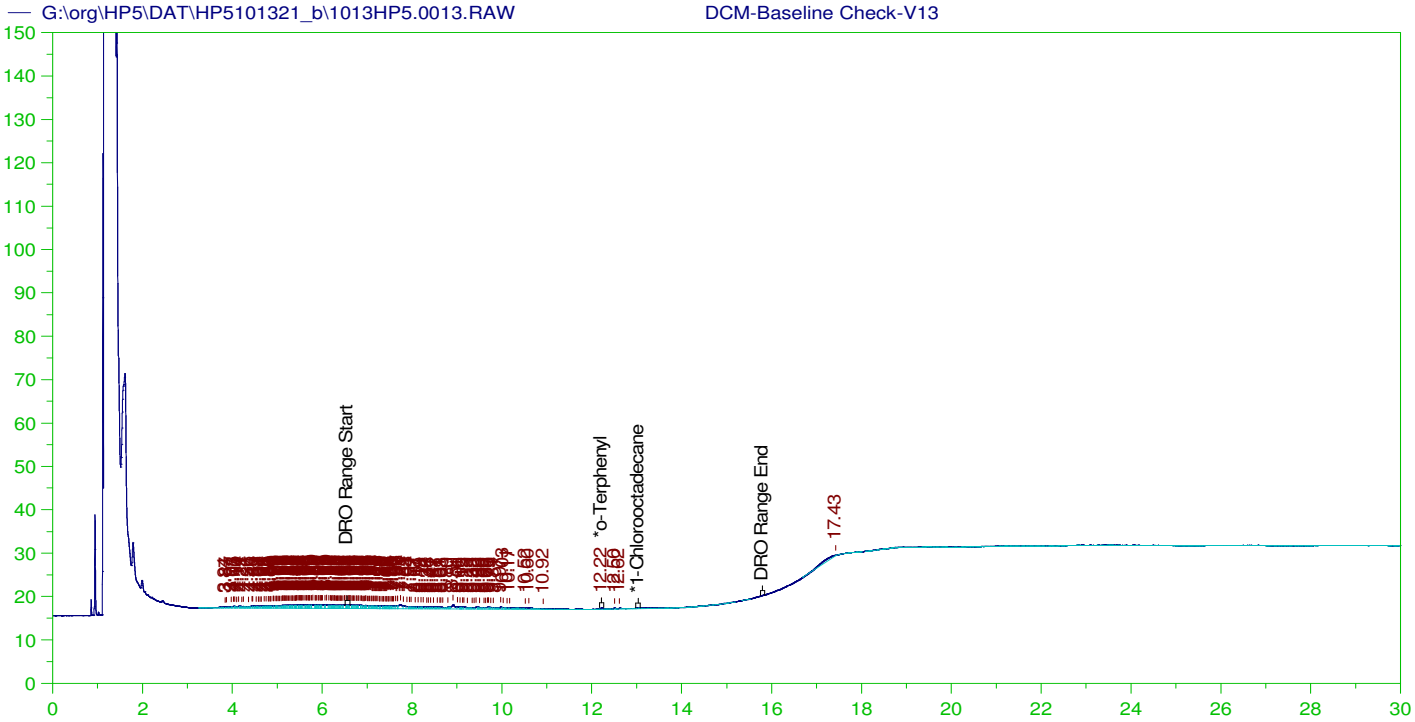
Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .192 | .197 | 102.6 | - |
| *1-Chlorooctadecane | 13.015 | .192 | .143 | 74.52 | - |

DRO Area:683442.3 DRO Amount: 2.230874E-02
TEH Area:1372858 TEH Amount: 4.481247E-02

G:\org\HP5\dat\HP5101321_b\Review\012_B21100834-003A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

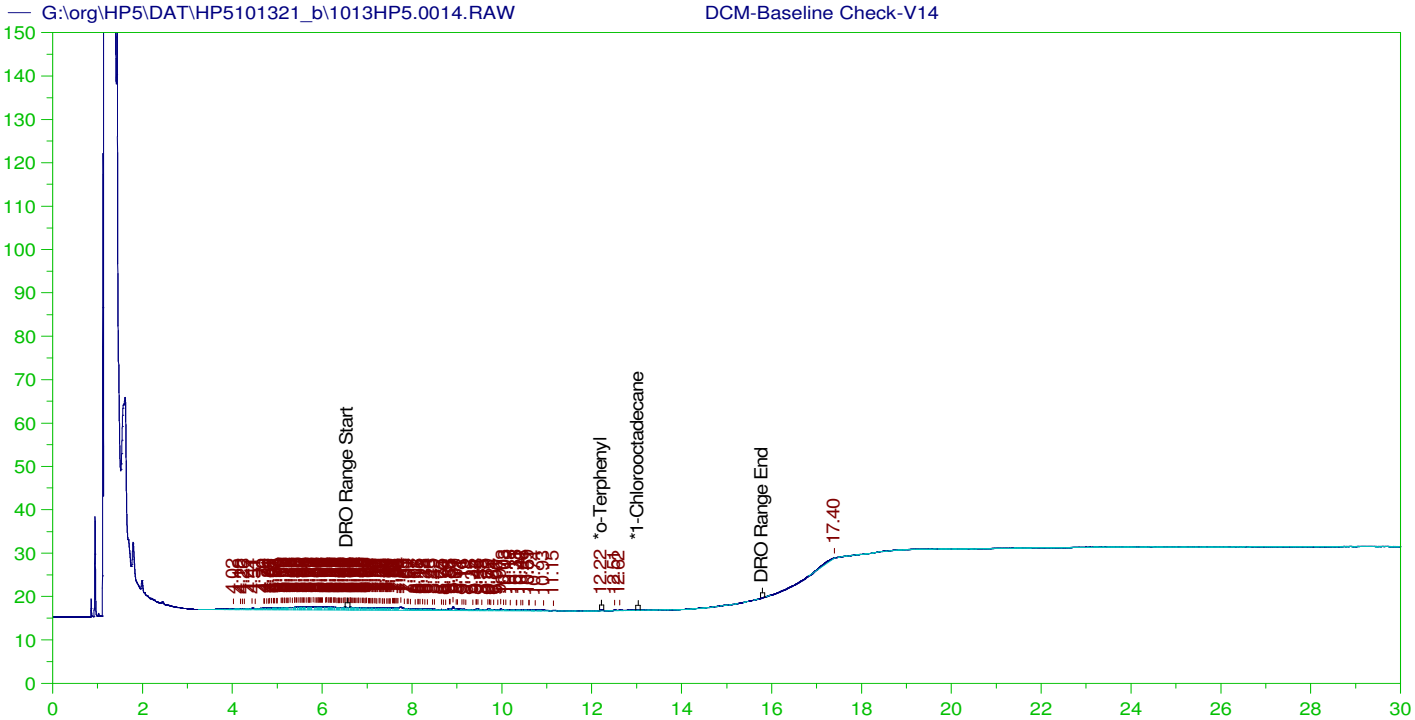
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0013.RAW
Date & Time Acquired: 10/13/2021 10:27:57 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.217 | 200. | .037 | .02 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:124999.8 DRO Amount: 4.24342
TEH Area:238903.8 TEH Amount: 8.110163

G:\org\HP5\dat\HP5101321_b\Review\013_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0014.RAW
Date & Time Acquired: 10/13/2021 11:10:47 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

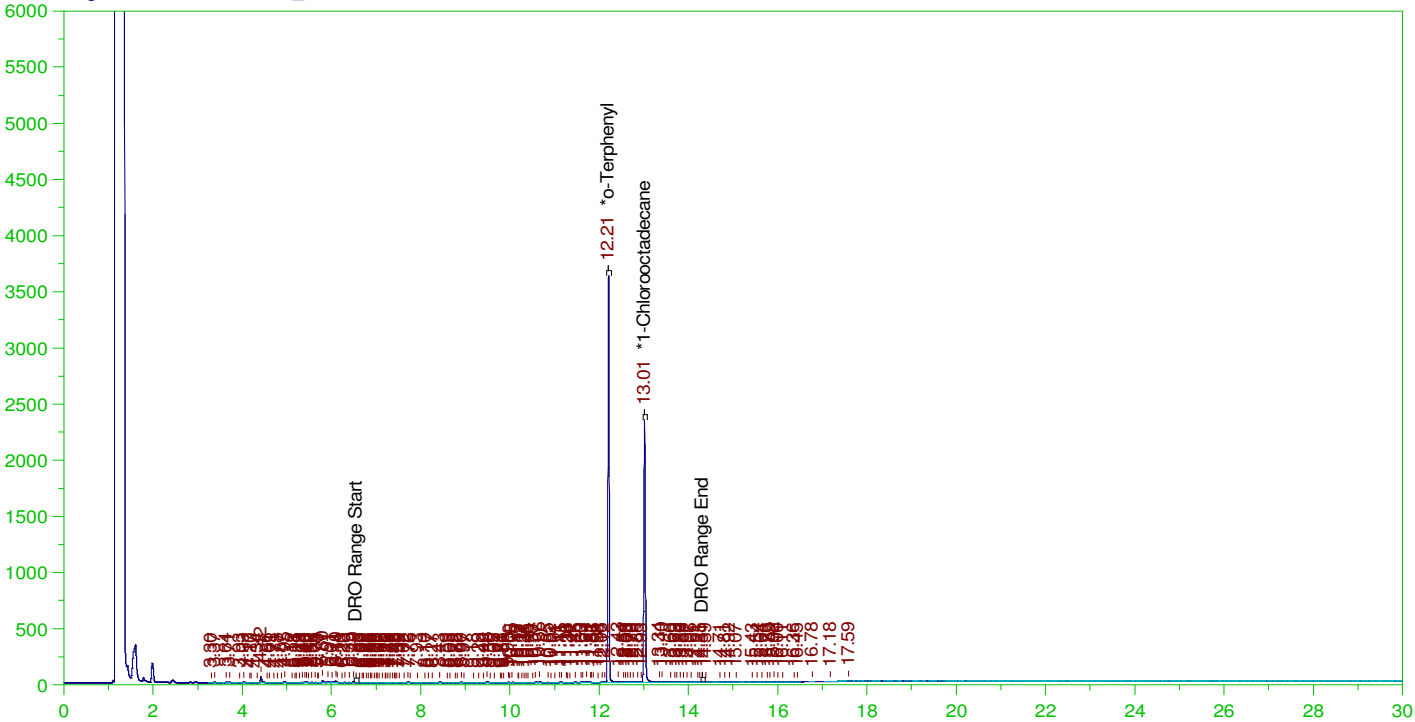
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | .038 | .02 | - |
| *1-Chlorooctadecane | 29.974 | 200. | . | . | - |

DRO Area:113632.2 DRO Amount: 3.857517
TEH Area:202332.9 TEH Amount: 6.868678

G:\org\HP5\dat\HP5101321_b\Review\014_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1779 (Prechlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW B21100827-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

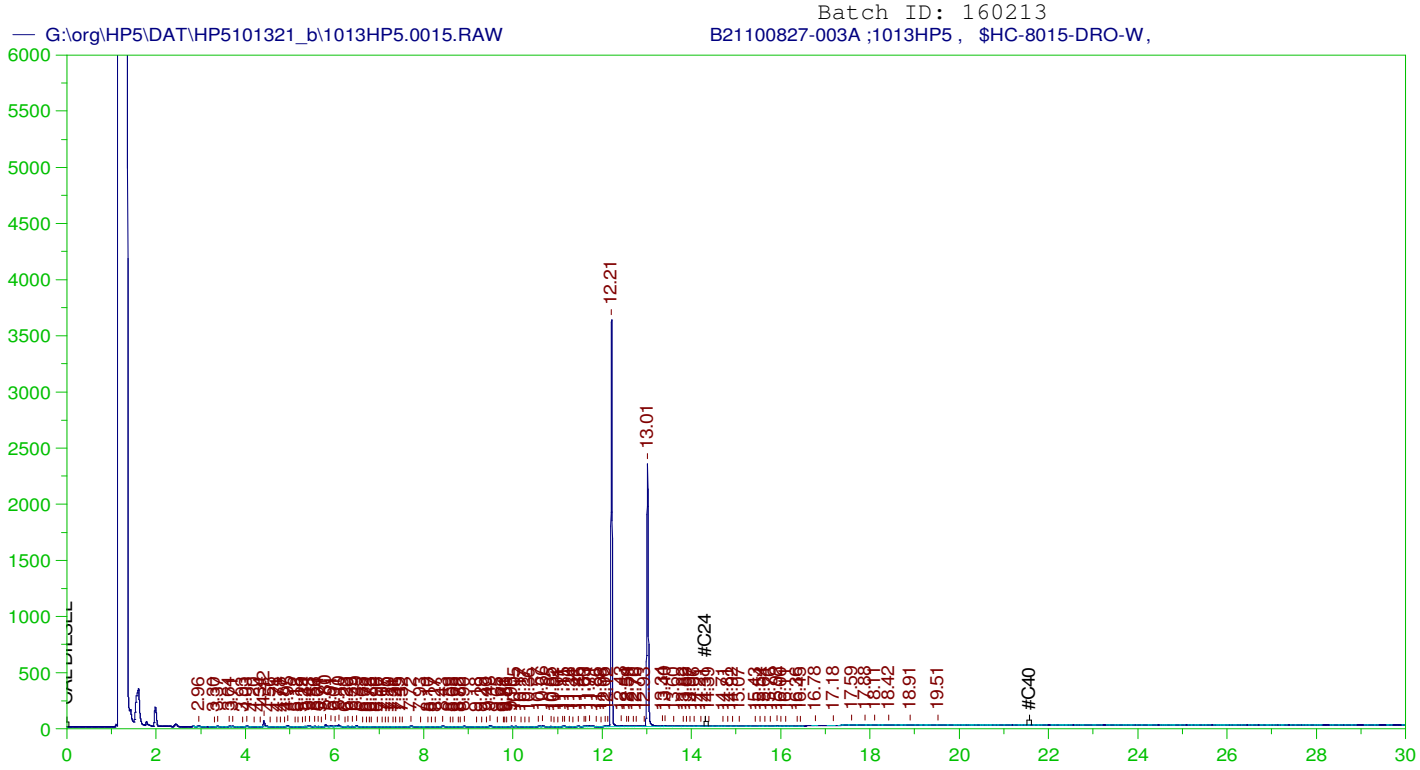
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.206 | .192 | .193 | 100.4 | - |
| *1-Chlorooctadecane | 13.014 | .192 | .144 | 74.93 | - |

DRO Area:452972.2 DRO Amount: 0.0147858
TEH Area:986708.3 TEH Amount: 3.220787E-02

G:\org\HP5\dat\HP5101321_b\Review\015_B21100827-003A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

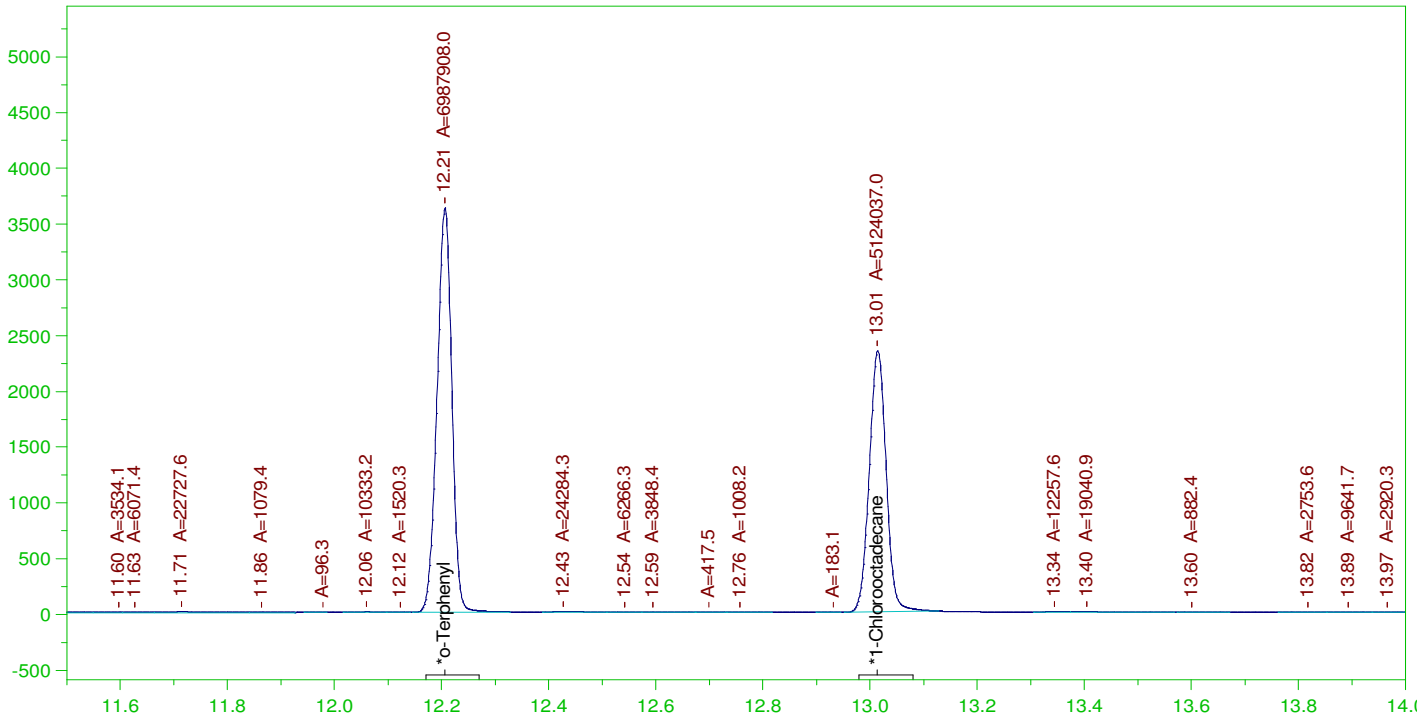
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:75508.58 RRO AMOUNT: 2.543738E-03

**ERH1779 (Prechlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW B21100827-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

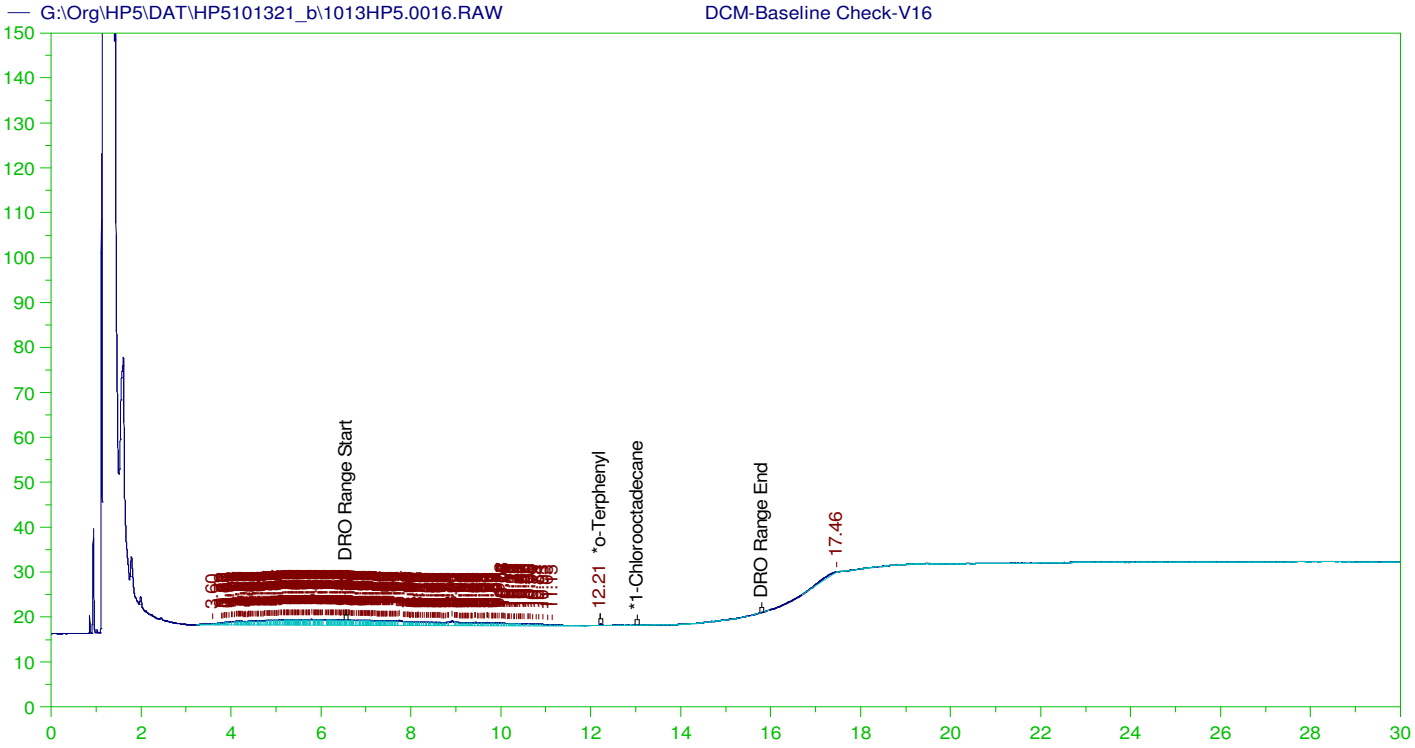
Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.206 | .192 | .192 | 99.62 | - |
| *1-Chlorooctadecane | 13.014 | .192 | .14 | 73.05 | - |

DRO Area:364376.3 DRO Amount: 1.189388E-02
TEH Area:937746.3 TEH Amount: 3.060967E-02

G:\org\HP5\dat\HP5101321_b\Review\015_B21100827-003A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

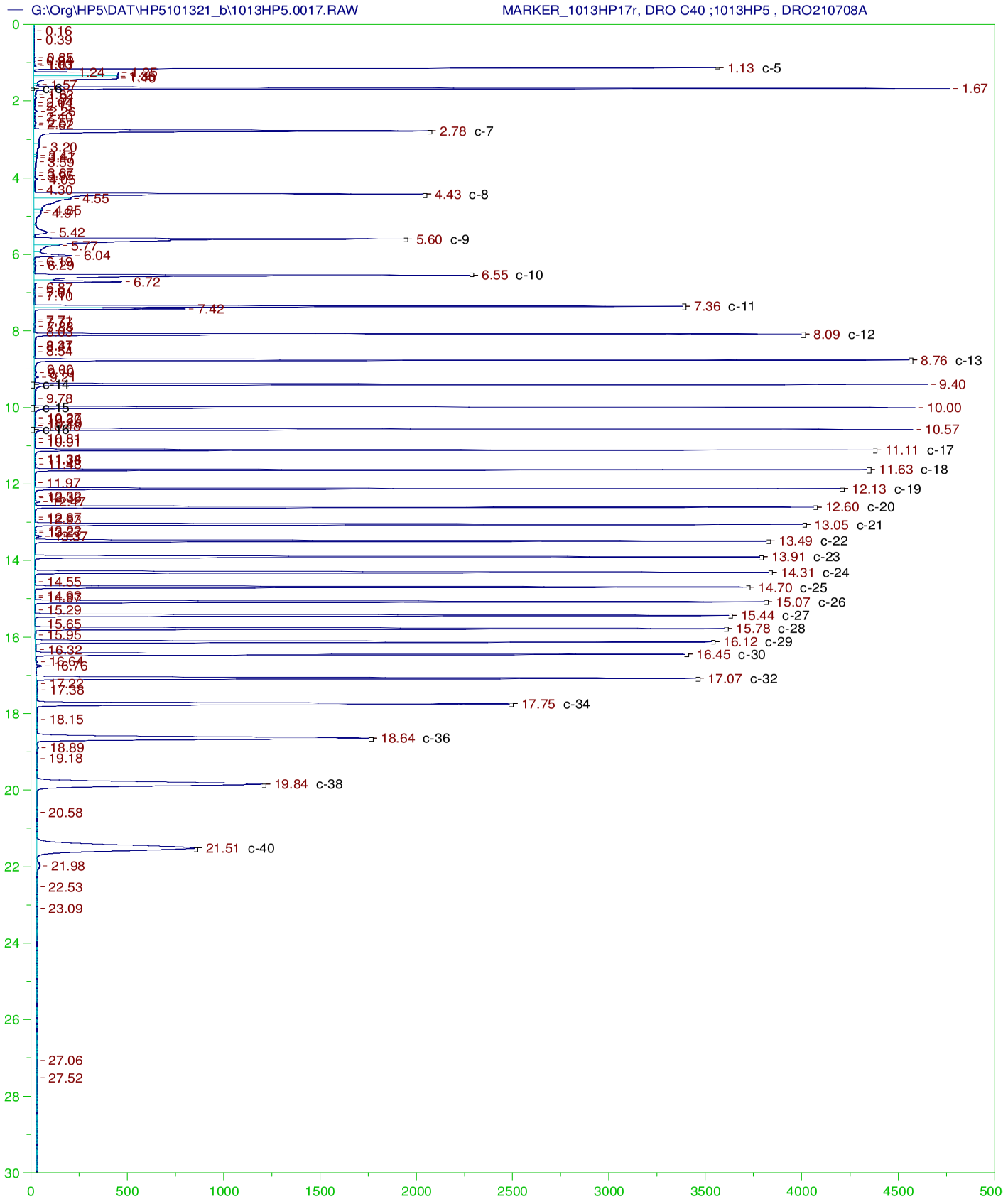
Sample Name: DCM-Baseline Check-V16
Raw File: G:\Org\HP5\DAT\HP5101321_b\1013HP5.0016.RAW
Date & Time Acquired: 10/14/2021 12:36:25 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-Lexp.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

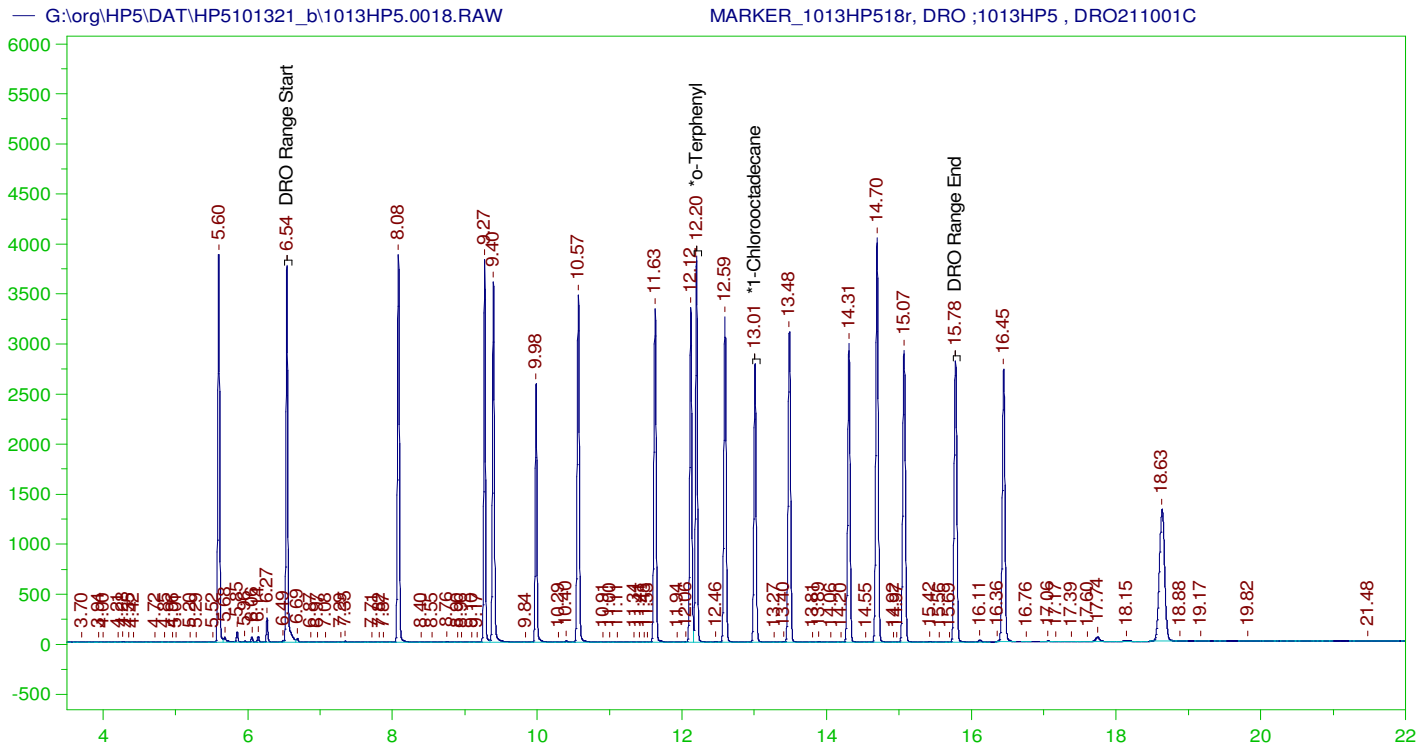
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.211 | 200. | .044 | .02 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:196251.2 DRO Amount: 6.662218
TEH Area:379018 TEH Amount: 12.86668

G:\org\HP5\dat\HP5101321_b\Review\016_DCM-Baseline Chec_DR_8015-HS-Lexp.xls


G:\Org\HP5\DAT\HP5101321_b\1013HP5.0017.RAW
MARKER_1013HP17r, DRO C40 ;1013HP5 , DRO210708A
1.13 c-5
1.67
2.78 c-7
4.43 c-8
5.60 c-9
6.55 c-10
7.36 c-11
8.09 c-12
8.76 c-13
9.40
10.00
10.57
11.11 c-17
11.63 c-18
12.13 c-19
12.60 c-20
13.05 c-21
13.49 c-22
13.91 c-23
14.31 c-24
14.70 c-25
15.07 c-26
15.44 c-27
15.78 c-28
16.12 c-29
16.45 c-30
17.07 c-32
17.75 c-34
18.64 c-36
19.84 c-38
21.51 c-40
G:\org\HP5\dat\HP5101321_b\Review\017_MARKER_1013HP17r_CSC211011.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

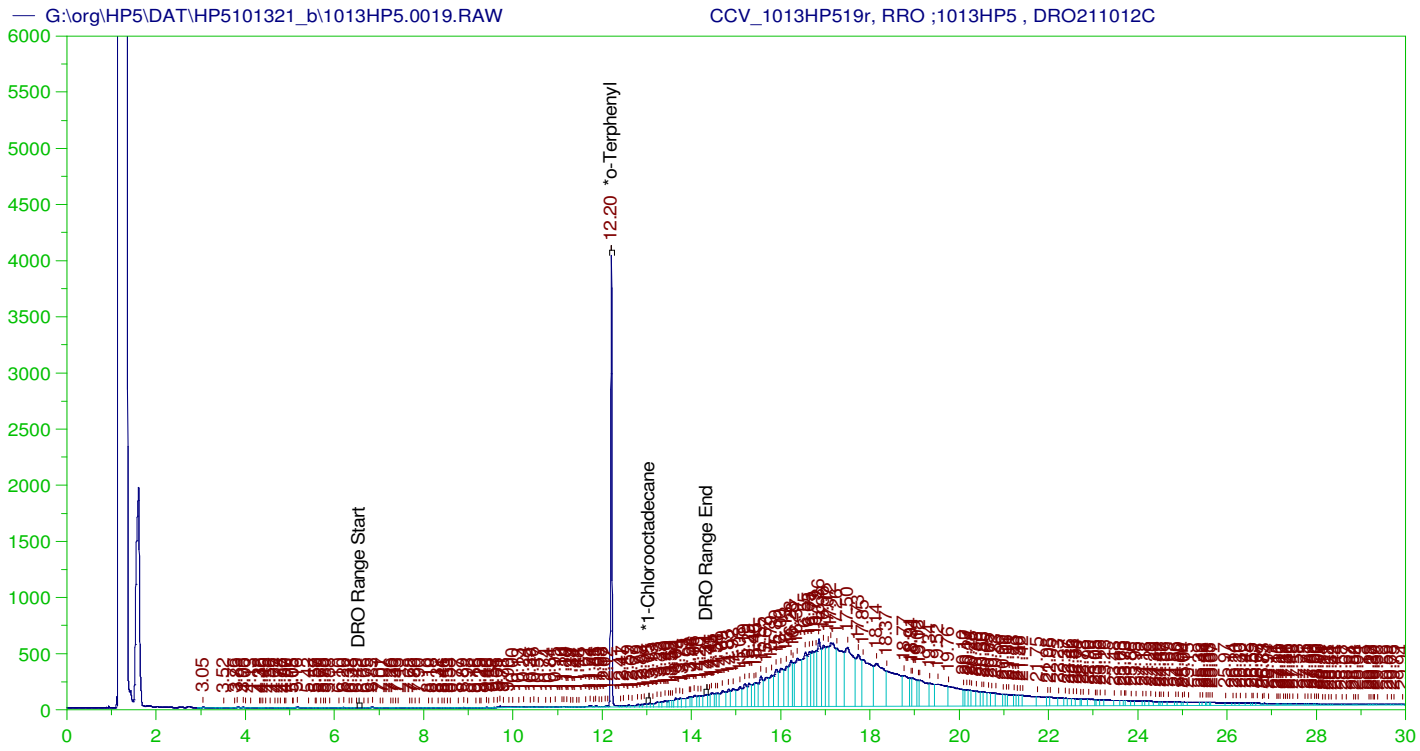
Sample Name: MARKER_1013HP518r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0018.RAW
Date & Time Acquired: 10/14/2021 2:01:56 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 210.929 | 105.46 | - |
| *1-Chlorooctadecane | 13.01 | 200. | 170.869 | 85.43 | - |

DRO Area:9.643527E+07 DRO Amount: 3273.727
TEH Area:1.179968E+08 TEH Amount: 4005.684

G:\org\HP5\dat\HP5101321_b\Review\018_MARKER_1013HP518r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP519r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW
Date & Time Acquired: 10/14/2021 2:44:39 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 225.67 | 112.84 | - |
| *1-Chlorooctadecane | 13.05 | 200. | 4.38 | 2.19 | - |

DRO Area:6668142 DRO Amount: 233.6222
TEH (Oil Range) Area:1.354669E+08 TEH (Oil Range) Amount: 4746.161

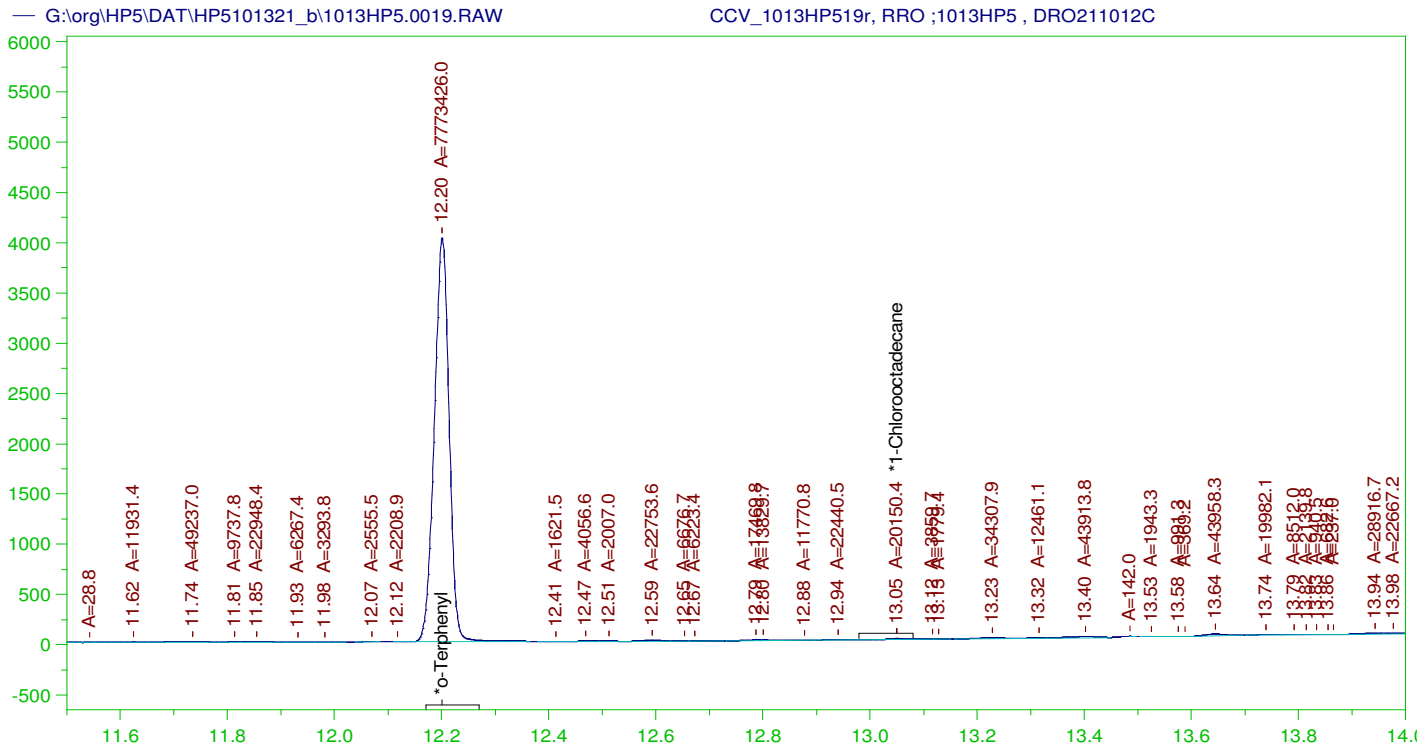
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4746.16 | 94.92 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 225.67 | 112.84 | 85-115 |
| *1-Chlorooctadecane | 13.05 | 200. | 4.38 | 2.19 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\019_CCV_1013HP519r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP519r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW
Date & Time Acquired: 10/14/2021 2:44:39 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 221.647 | 110.82 | - |
| *1-Chlorooctadecane | 13.05 | 200. | .575 | .29 | - |

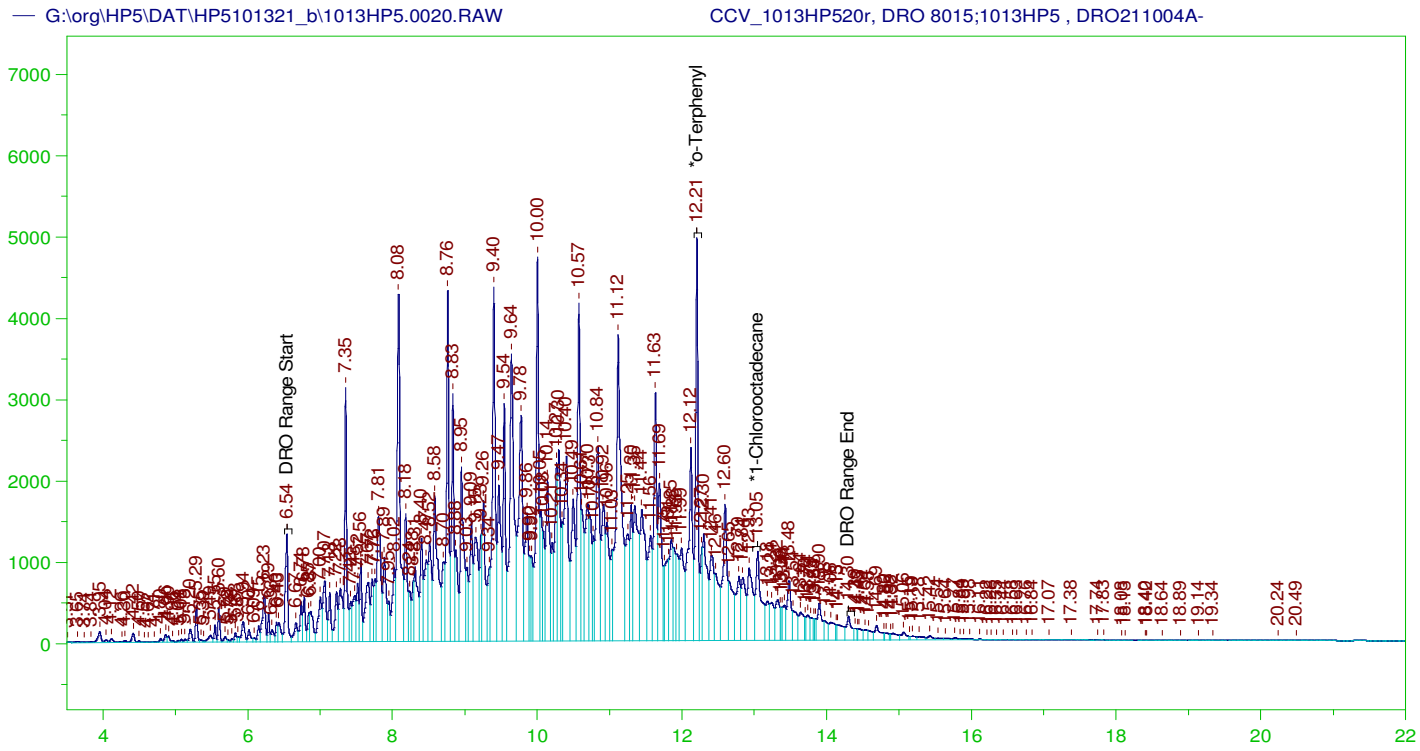
DRO Area:830514.8 DRO Amount: 29.09757
TEH Area:2146539 TEH Amount: 75.20523

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 75.21 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 221.647 | 110.82 | 85-115 |
| *1-Chlorooctadecane | 13.05 | 200. | .575 | .29 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\019_CCV_1013HP519r_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW
Date & Time Acquired: 10/14/2021 3:27:25 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 352.976 | 176.49 | - |
| *1-Chlorooctadecane | 13.045 | 200. | 159.505 | 79.75 | - |

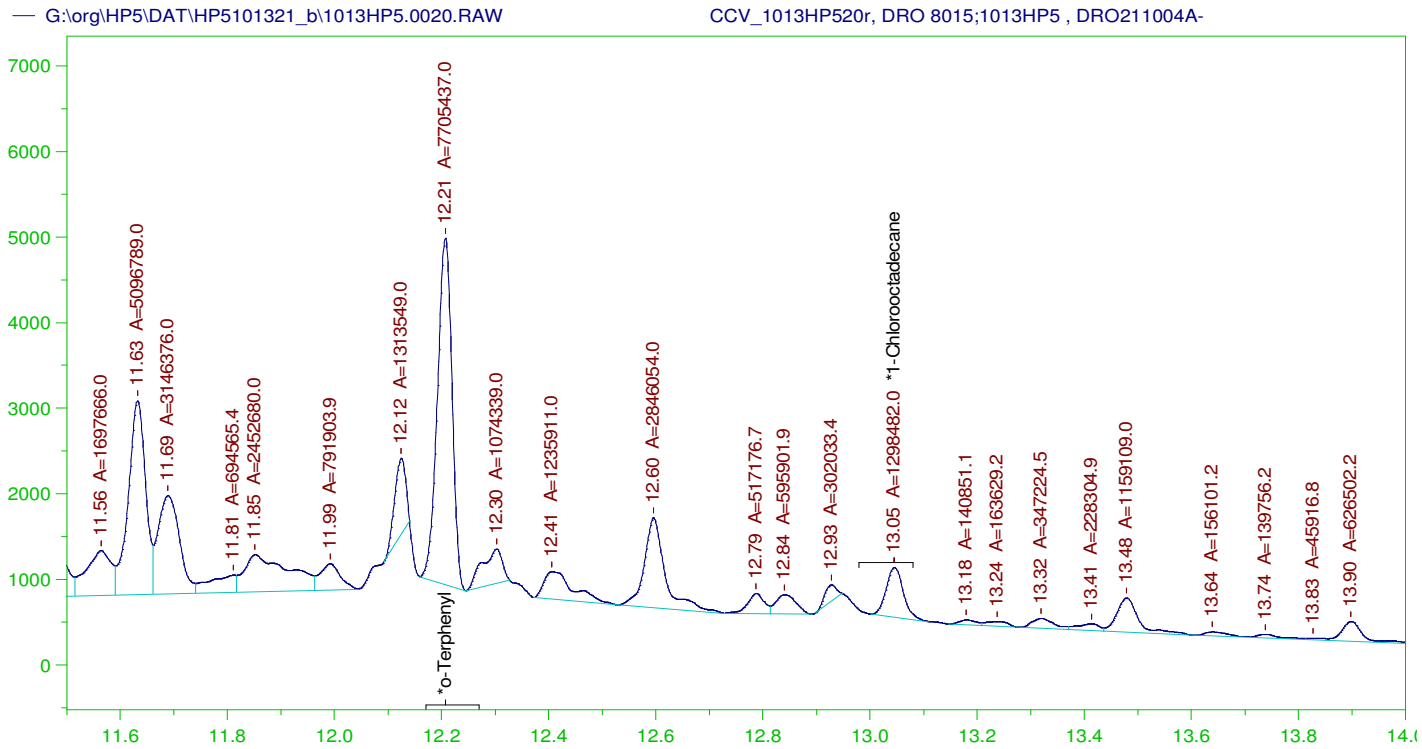
DRO Area:4.642708E+08 DRO Amount: 15760.79
TEH Area:4.811138E+08 TEH Amount: 16332.56

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16332.56 | 108.88 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 352.976 | 176.49 | 85-115 |
| *1-Chlorooctadecane | 13.045 | 200. | 159.505 | 79.75 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\020_CCV_1013HP520r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW
Date & Time Acquired: 10/14/2021 3:27:25 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 219.708 | 109.85 | - |
| *1-Chlorooctadecane | 13.045 | 200. | 37.024 | 18.51 | - |

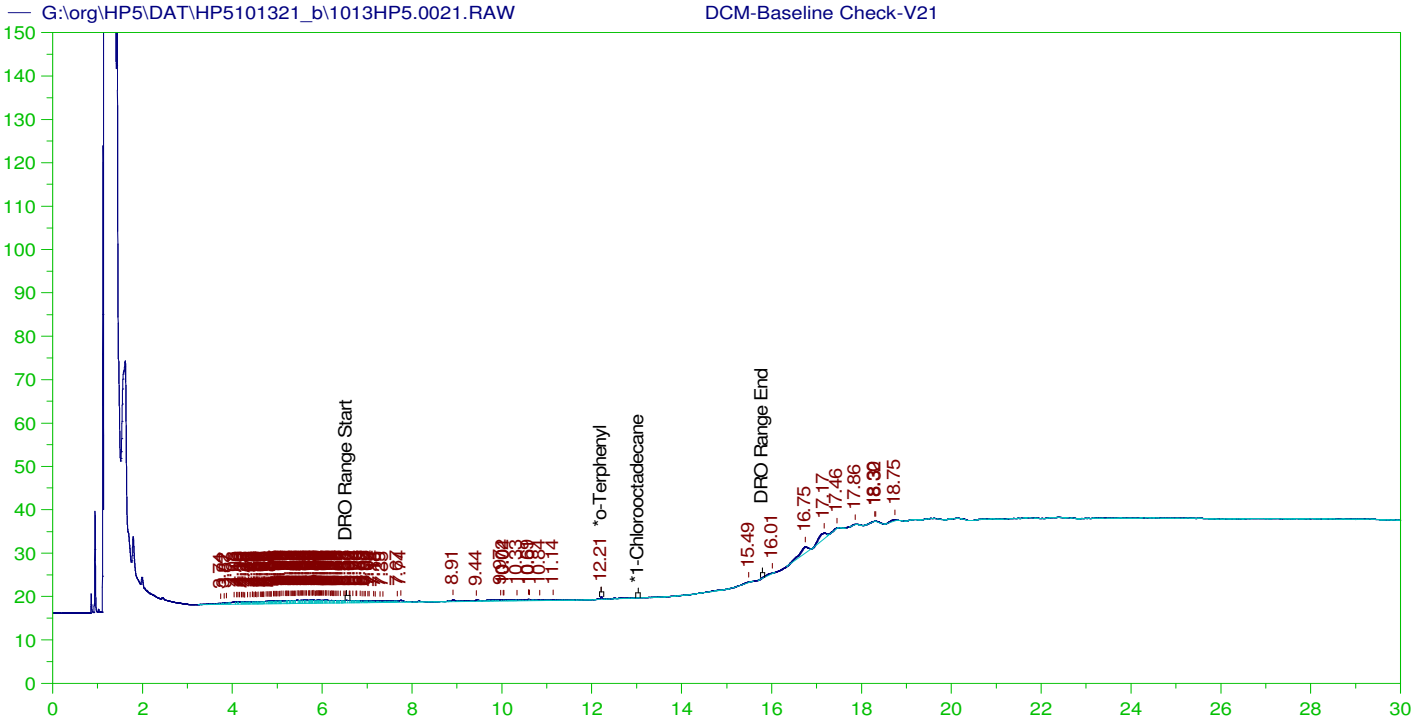
DRO Area:2.587795E+08 DRO Amount: 8784.894
TEH Area:2.68636E+08 TEH Amount: 9119.495

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9119.5 | 60.8 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 219.708 | 109.85 | 85-115 |
| *1-Chlorooctadecane | 13.045 | 200. | 37.024 | 18.51 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\020_CCV_1013HP520r_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V21
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0021.RAW
Date & Time Acquired: 10/14/2021 4:10:09 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

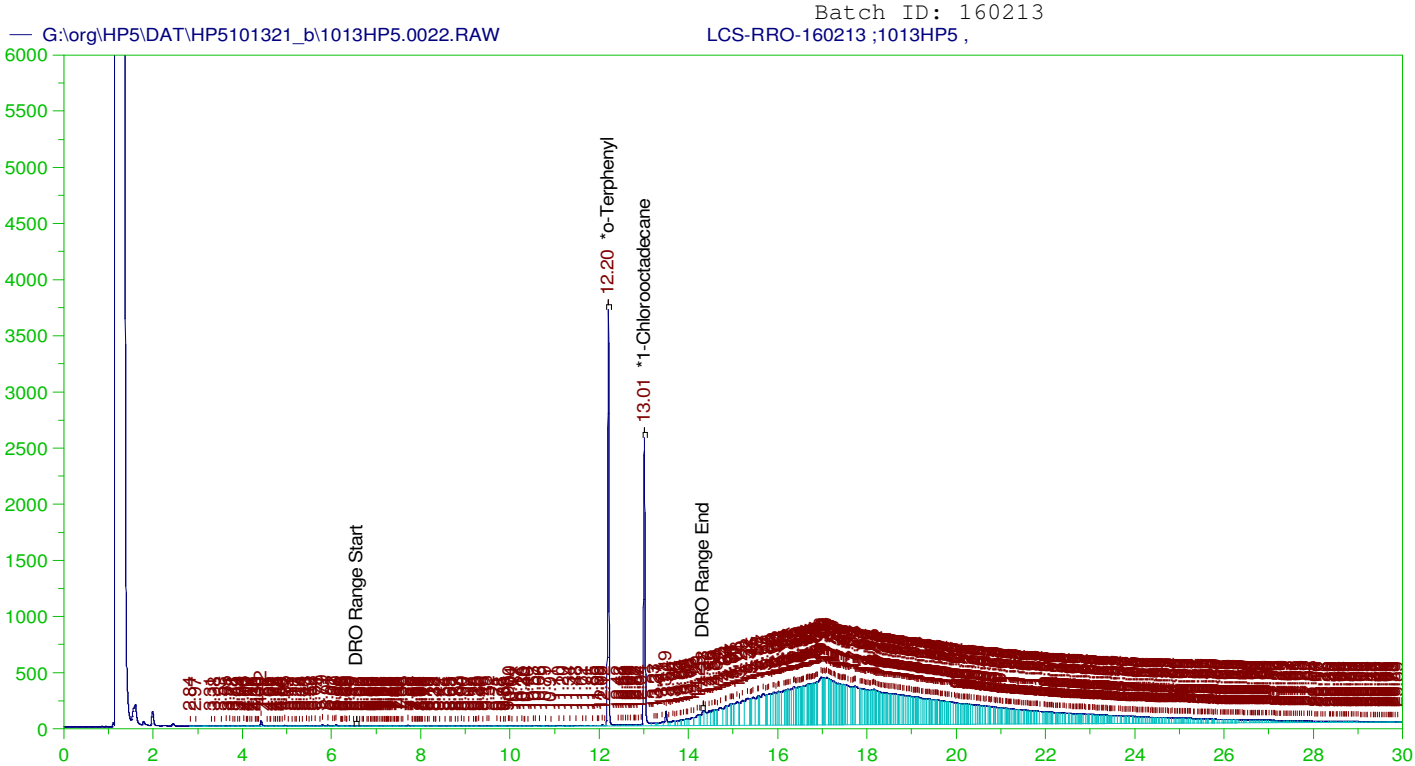
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.205 | 200. | .054 | .03 | - |
| *1-Chlorooctadecane | 29.994 | 200. | . | . | - |

DRO Area:69726.66 DRO Amount: 2.367039
TEH Area:224337.8 TEH Amount: 7.615685

G:\org\HP5\dat\HP5101321_b\Review\021_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-RRO-160213 ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0022.RAW
Date & Time Acquired: 10/14/2021 4:52:52 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

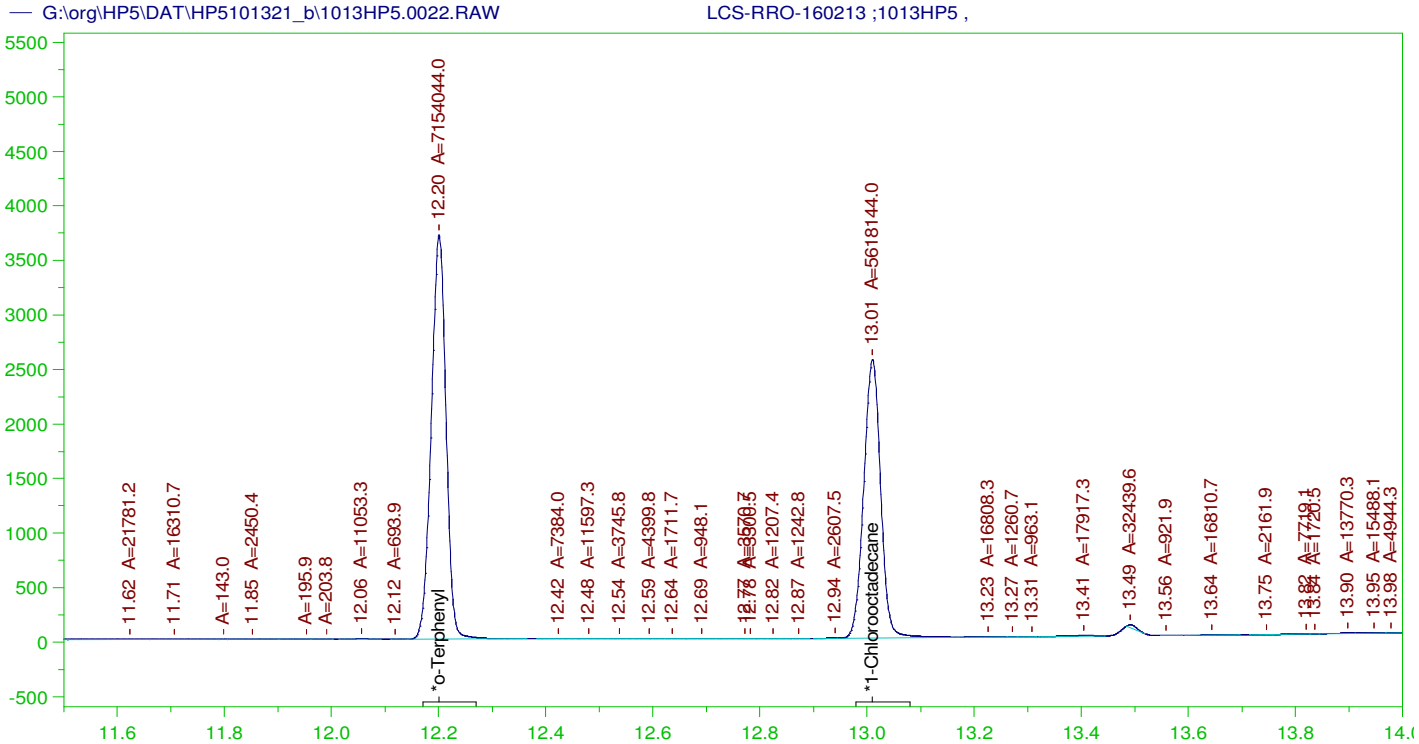
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | .2 | .206 | 102.76 | - |
| *1-Chlorooctadecane | 13.01 | .2 | .165 | 82.6 | - |

DRO Area:4899232 DRO Amount: 0.1716474
TEH (Oil Range) Area:1.333335E+08 TEH (Oil Range) Amount: 4.671418

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\022_LCS-RRO-160213_D3_OIL-AJ-L%.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

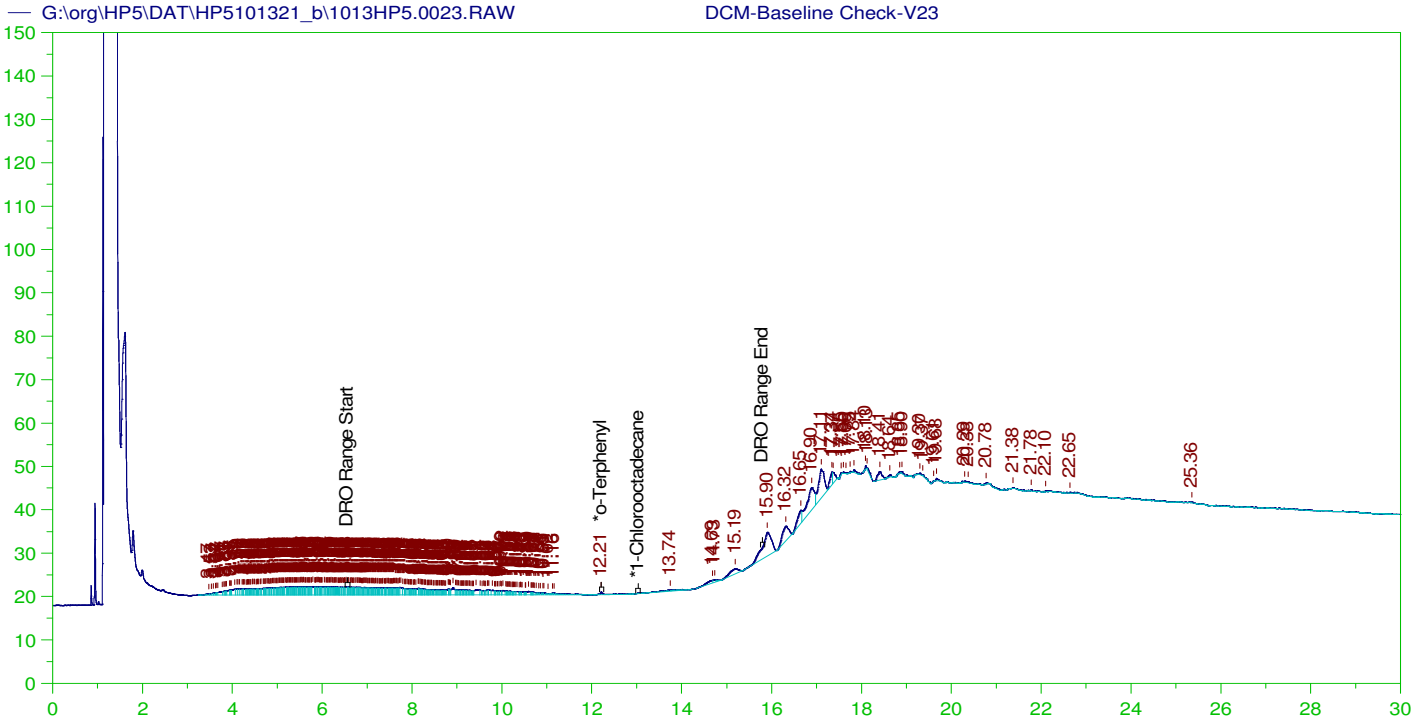
Sample Name: LCS-RRO-160213 ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0022.RAW
Date & Time Acquired: 10/14/2021 4:52:52 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | .2 | .204 | 101.99 | - |
| *1-Chlorooctadecane | 13.01 | .2 | .16 | 80.1 | - |

DRO Area:864747.1 DRO Amount: 3.029692E-02
TEH Area:2774749 TEH Amount: 9.721494E-02

G:\org\HP5\dat\HP5101321_b\Review\022_LCS-RRO-160213_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V23
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0023.RAW
Date & Time Acquired: 10/14/2021 5:35:35 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

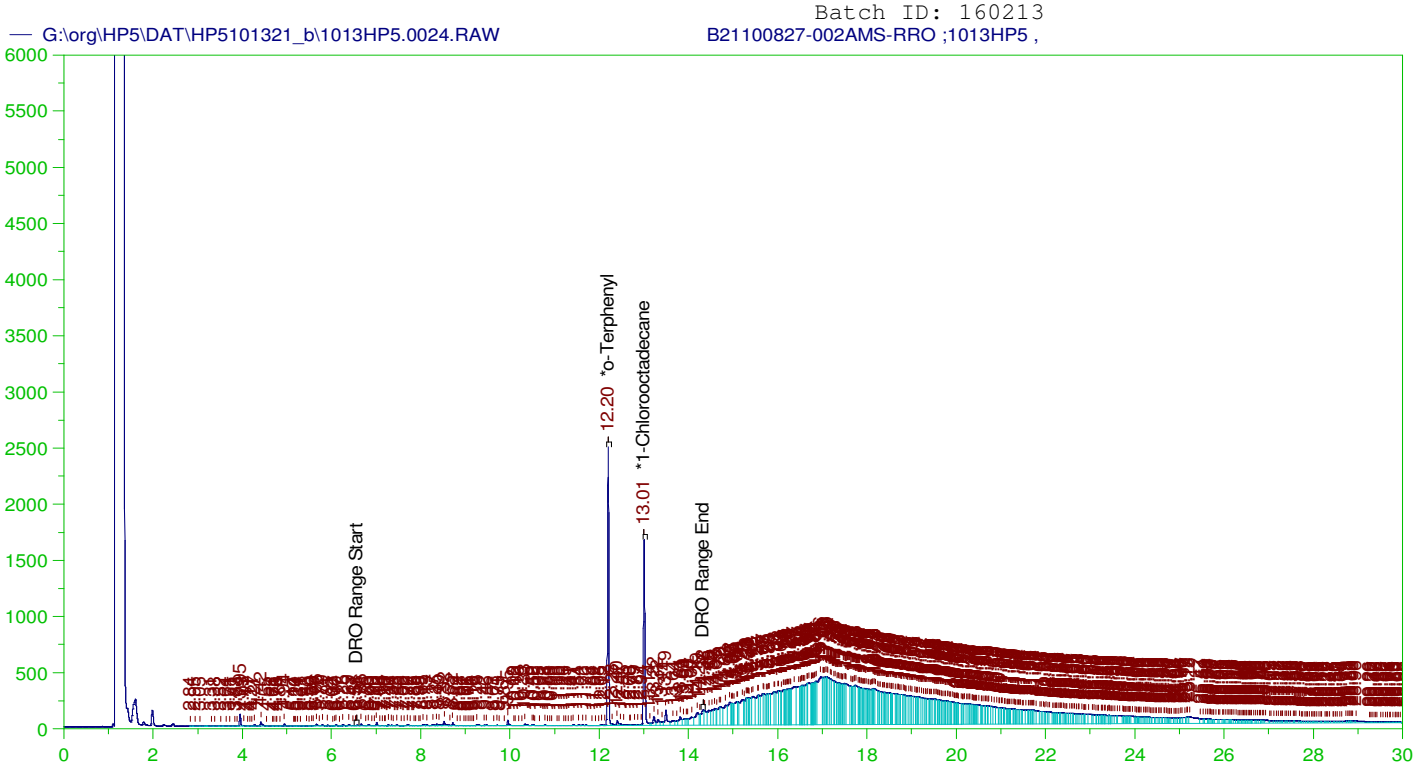
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.209 | 200. | .056 | .03 | - |
| *1-Chlorooctadecane | 29.943 | 200. | . | . | - |

DRO Area:365605.4 DRO Amount: 12.41136
TEH Area:990599.7 TEH Amount: 33.62829

G:\org\HP5\dat\HP5101321_b\Review\023_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0024.RAW
Date & Time Acquired: 10/14/2021 6:18:21 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.197 | .388 | .266 | 68.47 | - |
| *1-Chlorooctadecane | 13.007 | .388 | .209 | 53.71 | - |

DRO Area:6764887 DRO Amount: 0.460217
TEH (Oil Range) Area:1.375272E+08 TEH (Oil Range) Amount: 9.356012

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\024_B21100827-002AMS-RRO_D3_OIL-AJ-L%.xls

Batch ID: 160213

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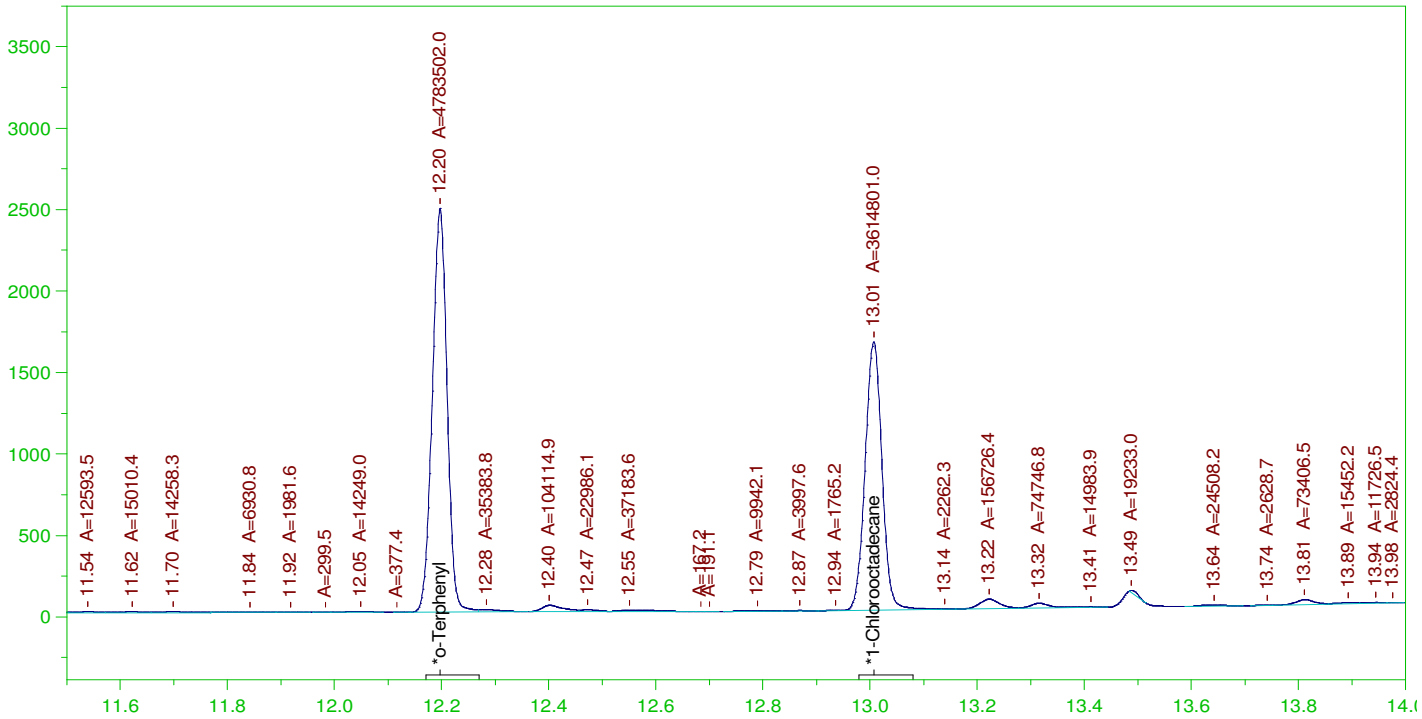



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

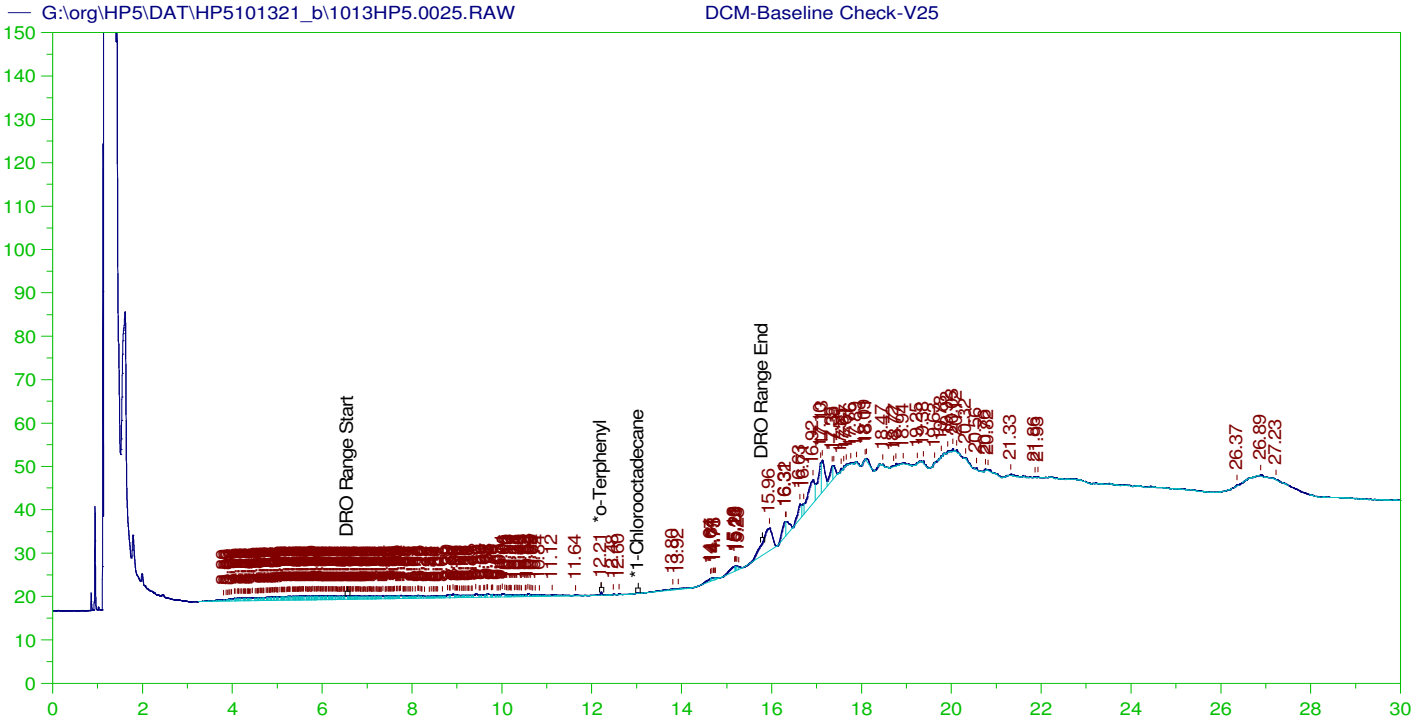
Sample Name: B21100827-002AMS-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0024.RAW
Date & Time Acquired: 10/14/2021 6:18:21 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.197 | .388 | .265 | 68.2 | - |
| *1-Chlorooctadecane | 13.007 | .388 | .2 | 51.54 | - |

DRO Area:2585120 DRO Amount: 0.1758664
TEH Area:4872221 TEH Amount: 0.3314584

G:\org\HP5\dat\HP5101321_b\Review\024_B21100827-002AMS-RRO_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V25
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0025.RAW
Date & Time Acquired: 10/14/2021 7:01:03 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.205 | 200. | .064 | .03 | - |
| *1-Chlorooctadecane | 29.99 | 200. | . | . | - |

DRO Area:193436 DRO Amount: 6.566651
TEH Area:697789.3 TEH Amount: 23.68814

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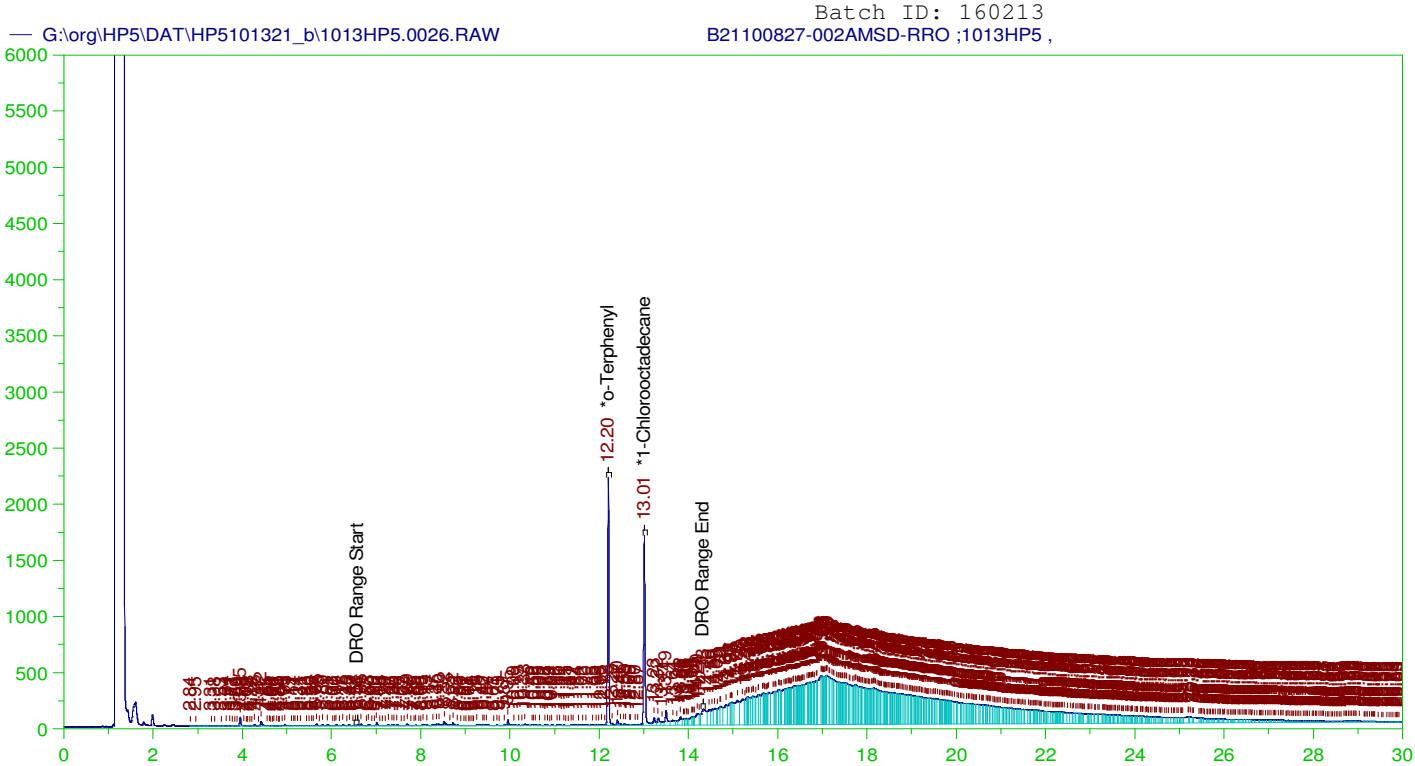
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMSD-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0026.RAW
Date & Time Acquired: 10/14/2021 7:43:34 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.199 | .388 | .239 | 61.52 | - |
| *1-Chlorooctadecane | 13.01 | .388 | .214 | 55.18 | - |

DRO Area:6592964 DRO Amount: 0.448521
TEH (Oil Range) Area:1.387715E+08 TEH (Oil Range) Amount: 9.44066

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\026_B21100827-002AMSD-RRO_D3_OIL-AJ-L%.xls

Batch ID: 160213

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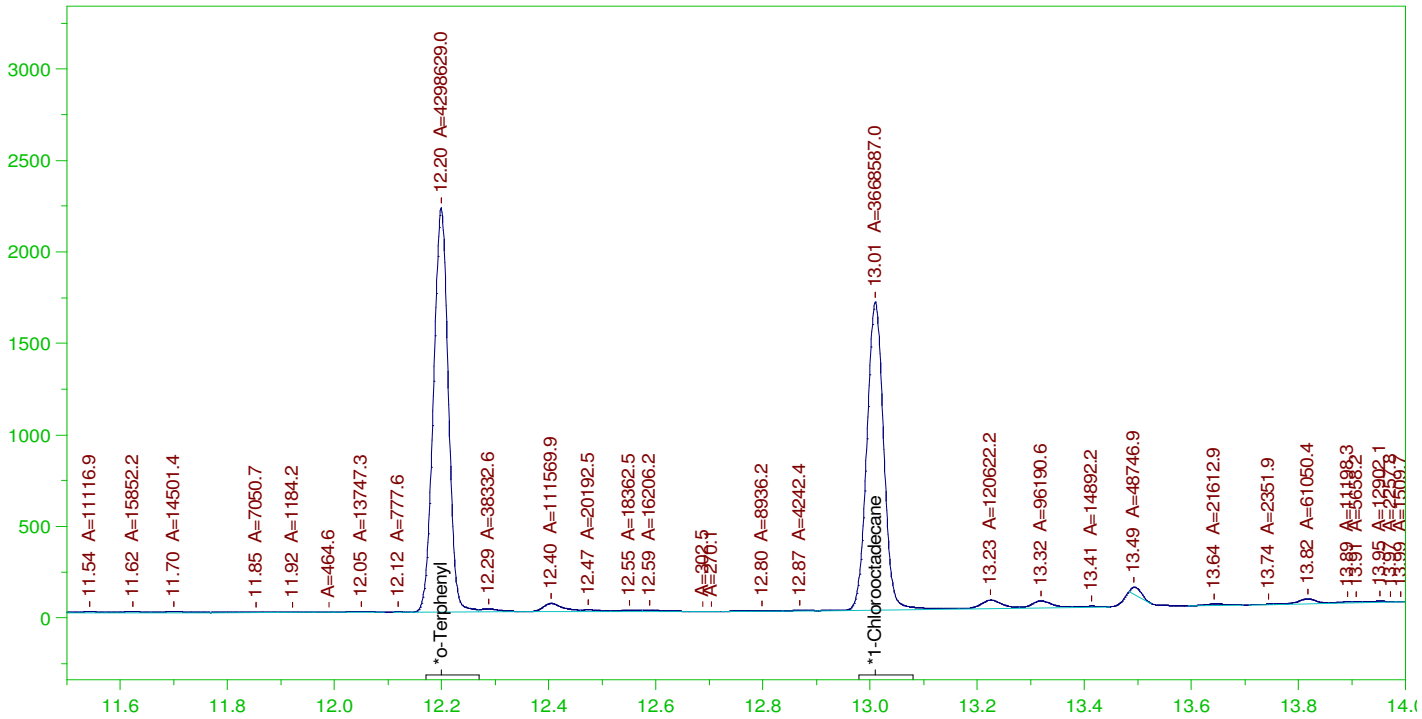


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMSD-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0026.RAW
Date & Time Acquired: 10/14/2021 7:43:34 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.199 | .388 | .238 | 61.28 | - |
| *1-Chlorooctadecane | 13.01 | .388 | .203 | 52.3 | - |

DRO Area:2503108 DRO Amount: 0.1702871
TEH Area:4696316 TEH Amount: 0.3194916

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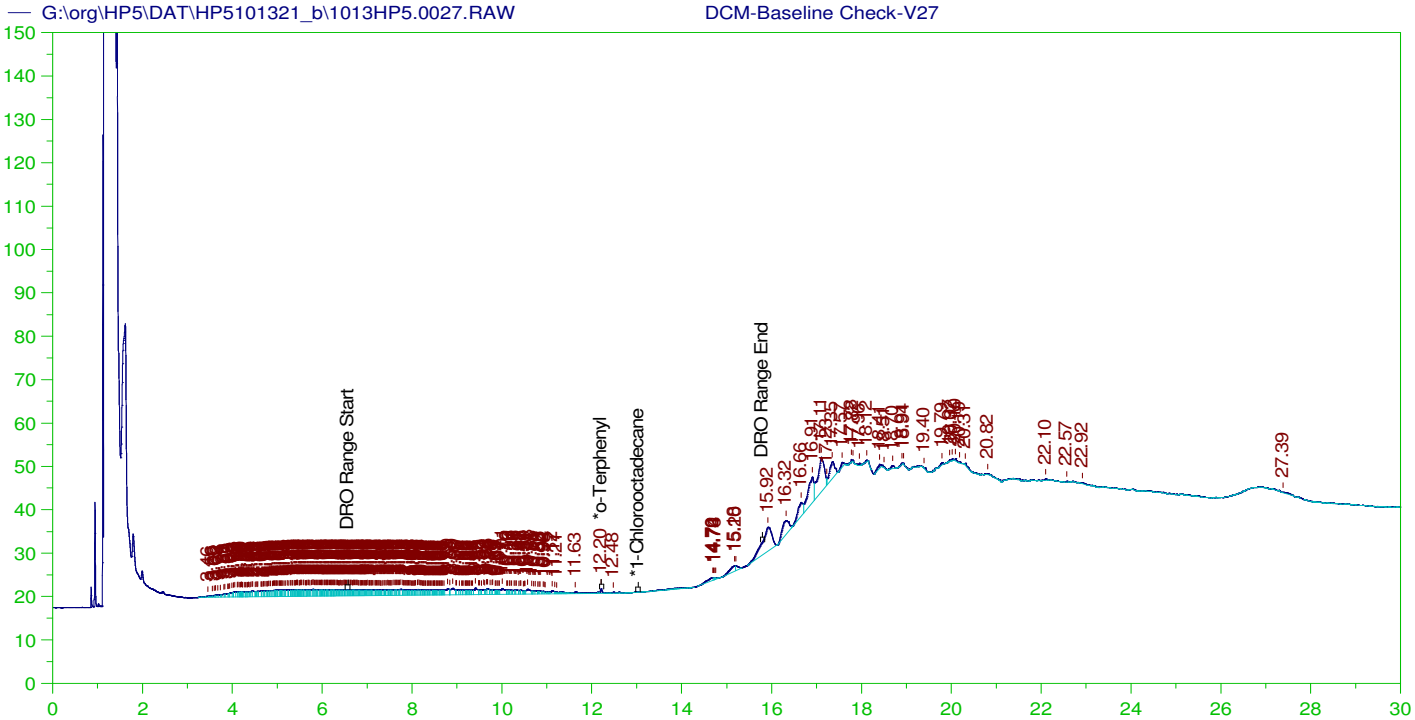



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V27
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0027.RAW
Date & Time Acquired: 10/14/2021 8:26:12 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

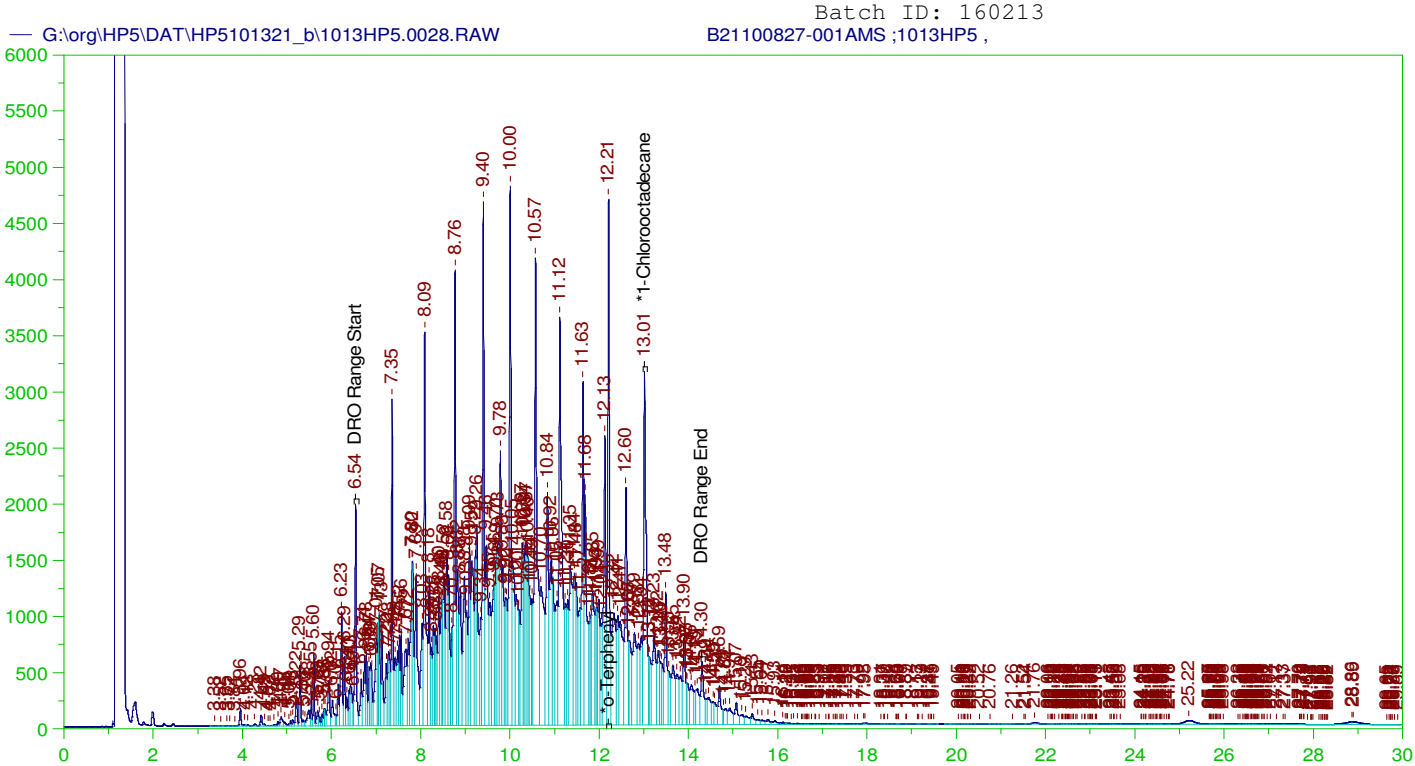
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | 200. | .082 | .04 | - |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | - |

DRO Area:350012.5 DRO Amount: 11.88202
TEH Area:964298.4 TEH Amount: 32.73543

G:\org\HP5\dat\HP5101321_b\Review\027_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

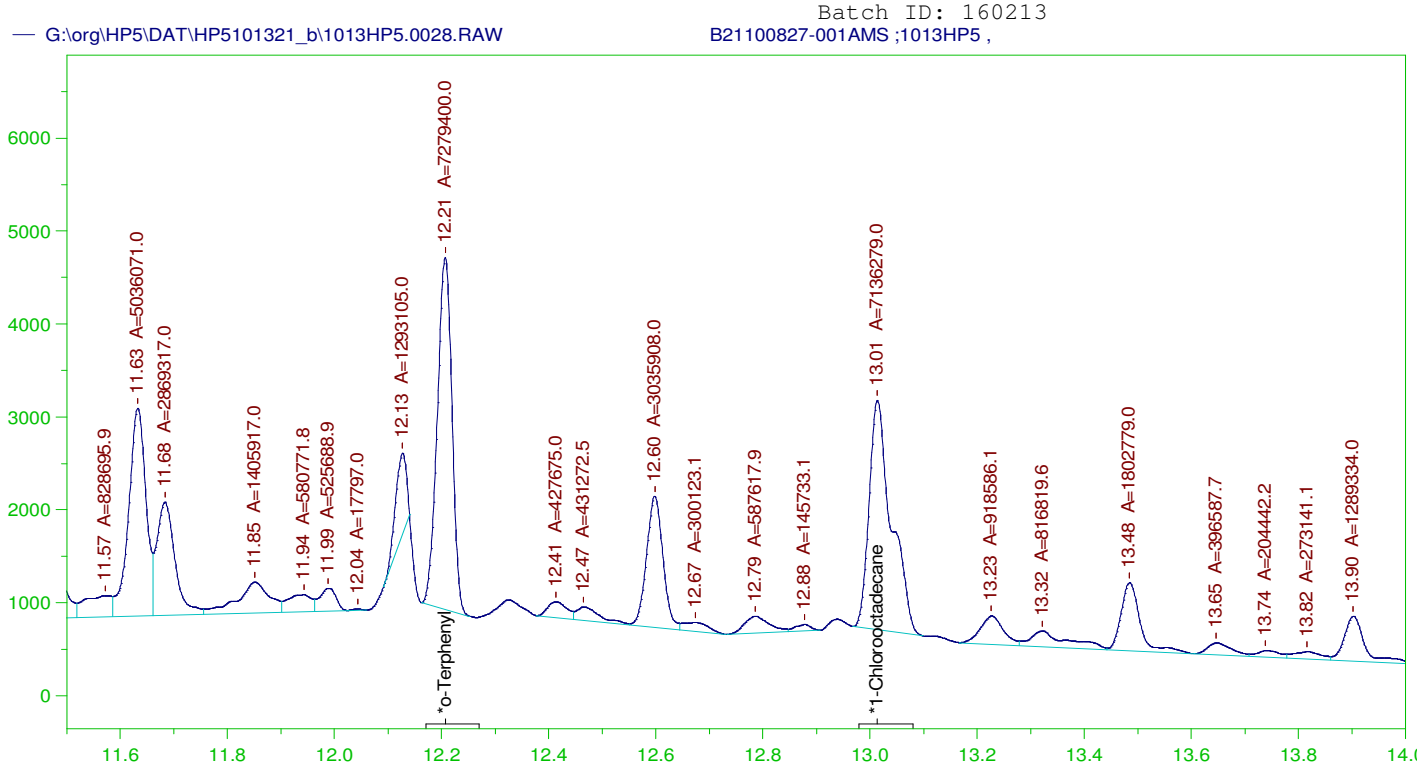
Sample Name: B21100827-001AMS ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0028.RAW
Date & Time Acquired: 10/14/2021 9:08:55 AM
Method File: G:\Org\HP5\Methods\D3_8015-101328-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .4 | .725 | 181.14 | - |
| *1-Chlorooctadecane | 13.014 | .4 | .712 | 178.02 | - |

DRO Area:4.560209E+08 DRO Amount: 30.96145
TEH Area:4.86465E+08 TEH Amount: 33.02845

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMS ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0028.RAW
Date & Time Acquired: 10/14/2021 9:08:55 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .4 | .415 | 103.78 | - |
| *1-Chlorooctadecane | 13.014 | .4 | .407 | 101.74 | - |

DRO Area:2.293543E+08 DRO Amount: 15.57197
TEH Area:2.432916E+08 TEH Amount: 16.51824

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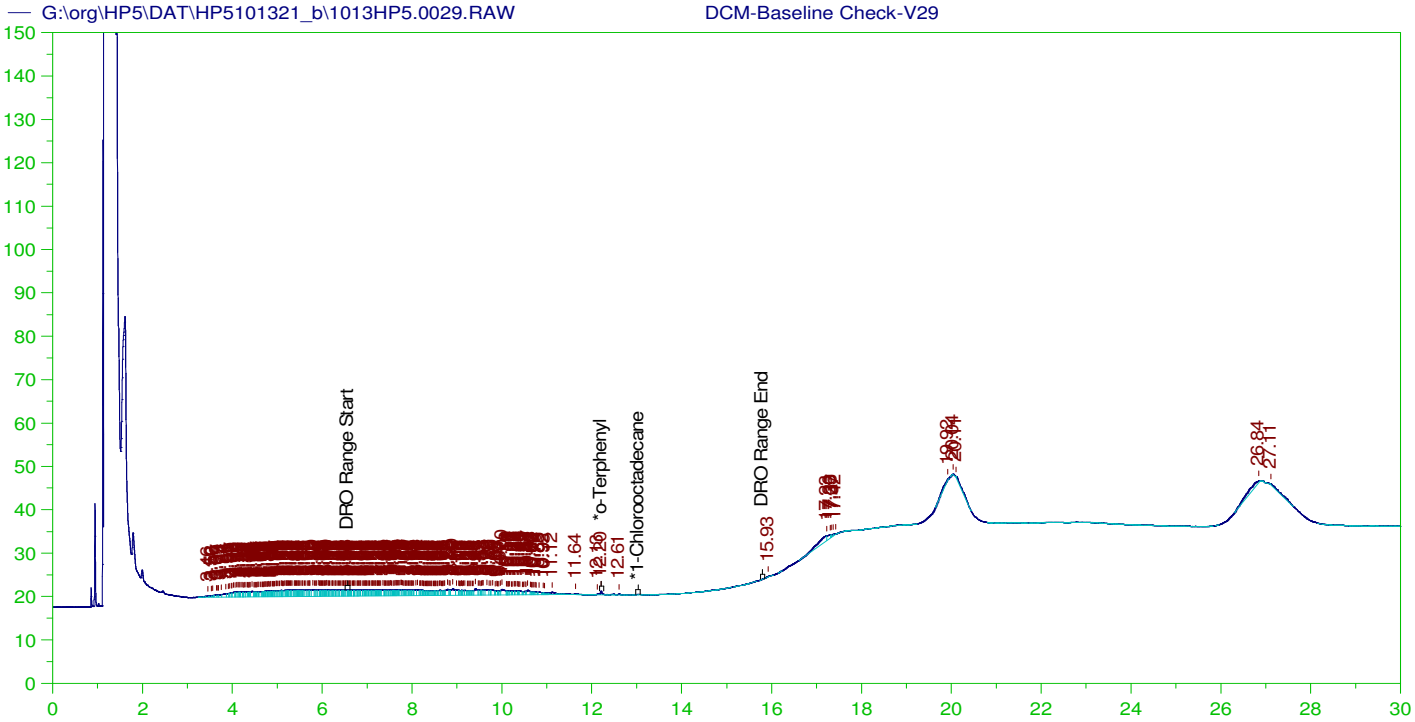



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V29
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0029.RAW
Date & Time Acquired: 10/14/2021 9:51:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

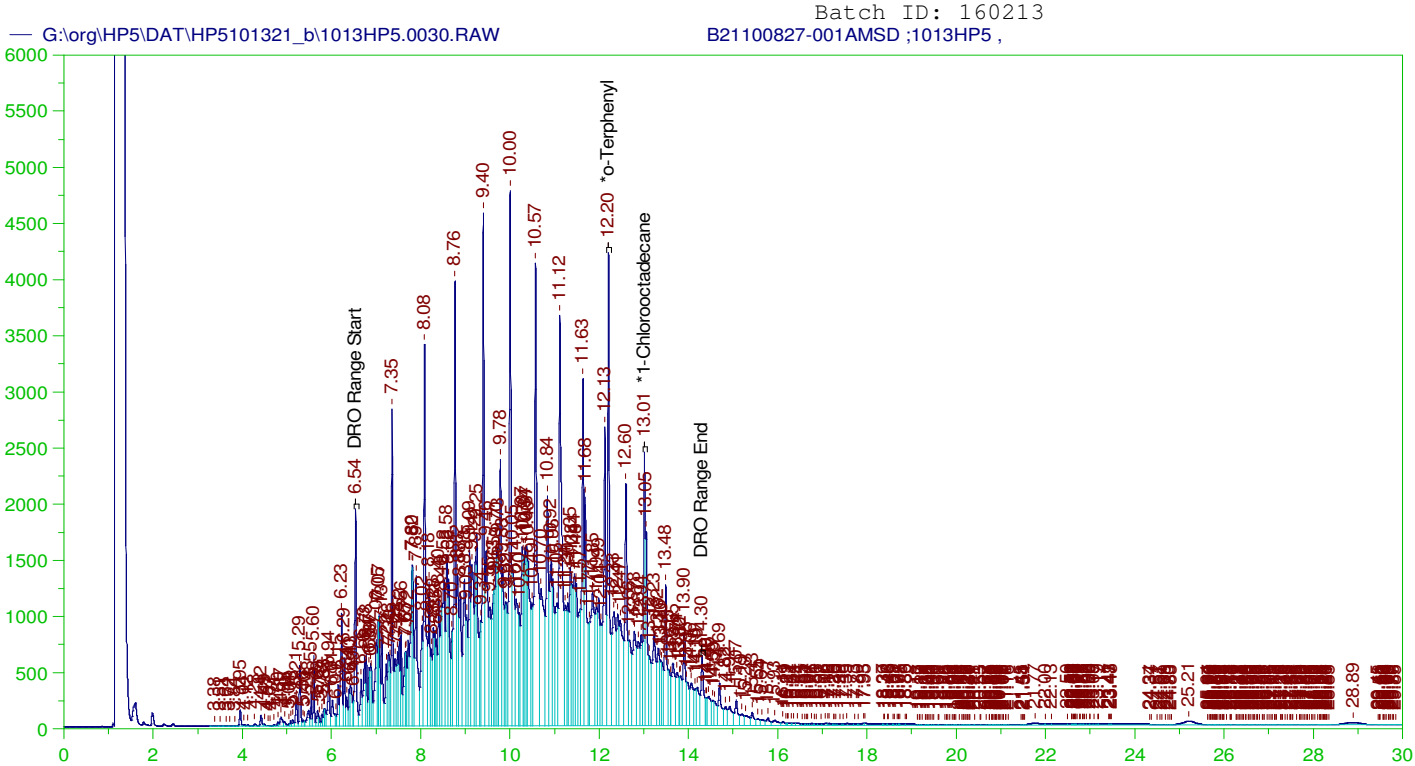
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.205 | 200. | .074 | .04 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:308739.3 DRO Amount: 10.4809
TEH Area:603657.7 TEH Amount: 20.49261

G:\org\HP5\dat\HP5101321_b\Review\029_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

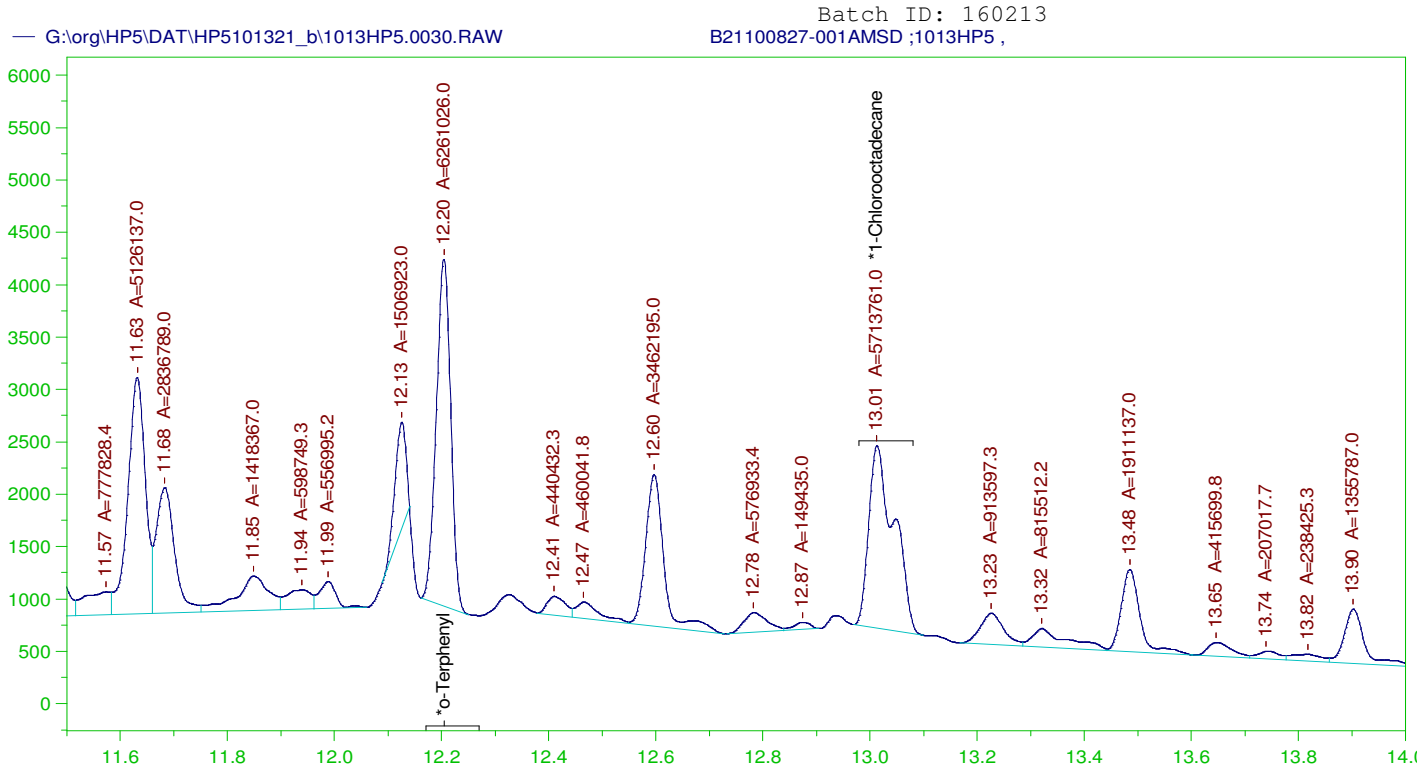
Sample Name: B21100827-001AMSD ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0030.RAW
Date & Time Acquired: 10/14/2021 10:34:35 AM
Method File: G:\Org\HP5\Methods\D3_8015-101330-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .4 | .684 | 171. | - |
| *1-Chlorooctadecane | 13.013 | .4 | .38 | 94.96 | - |

DRO Area:4.580036E+08 DRO Amount: 31.09606
TEH Area:4.96338E+08 TEH Amount: 33.69878

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMSD ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0030.RAW
Date & Time Acquired: 10/14/2021 10:34:35 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .4 | .357 | 89.26 | - |
| *1-Chlorooctadecane | 13.013 | .4 | .326 | 81.46 | - |

DRO Area:2.231896E+08 DRO Amount: 15.15341
TEH Area:2.37219E+08 TEH Amount: 16.10594

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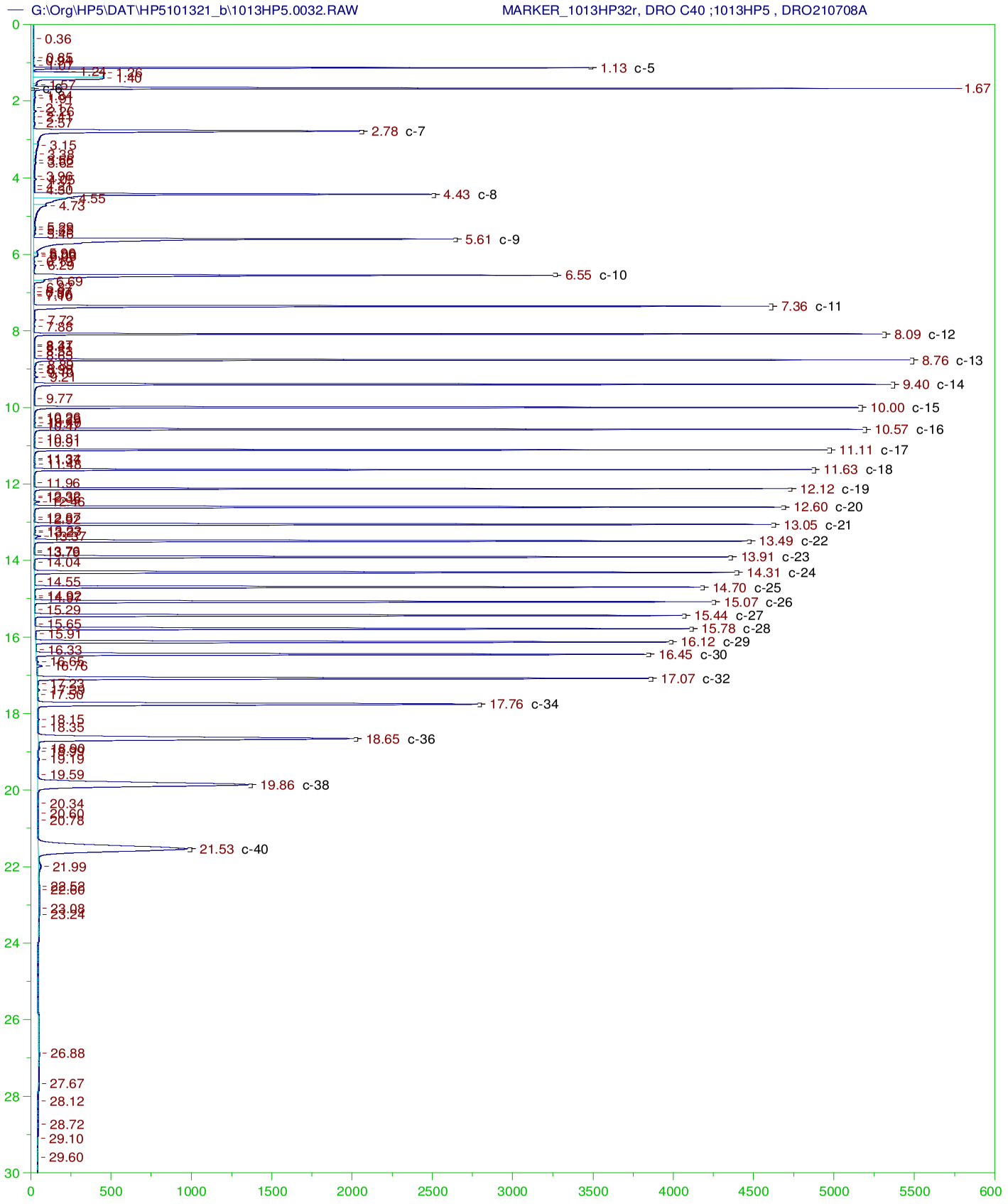
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1.13 c-5
1.67
2.78 c-7
4.43 c-8
5.61 c-9
6.55 c-10
7.36 c-11
8.09 c-12
8.76 c-13
9.40 c-14
10.00 c-15
10.57 c-16
11.11 c-17
11.63 c-18
12.12 c-19
12.60 c-20
13.05 c-21
13.49 c-22
13.91 c-23
14.31 c-24
14.70 c-25
15.07 c-26
15.44 c-27
15.78 c-28
16.12 c-29
16.45 c-30
17.07 c-32
17.76 c-34
18.65 c-36
19.86 c-38
21.53 c-40
0.36
1.24
1.40
1.57
1.91
2.57
3.15
4.55
4.73
6.29
6.69
7.72
9.77
10.81
11.96
14.04
14.55
15.29
15.65
15.91
16.33
16.76
18.15
18.35
19.19
19.59
20.34
20.60
20.78
21.99
26.88
27.67
28.12
28.72
29.10
29.60
0
500
1000
1500
2000
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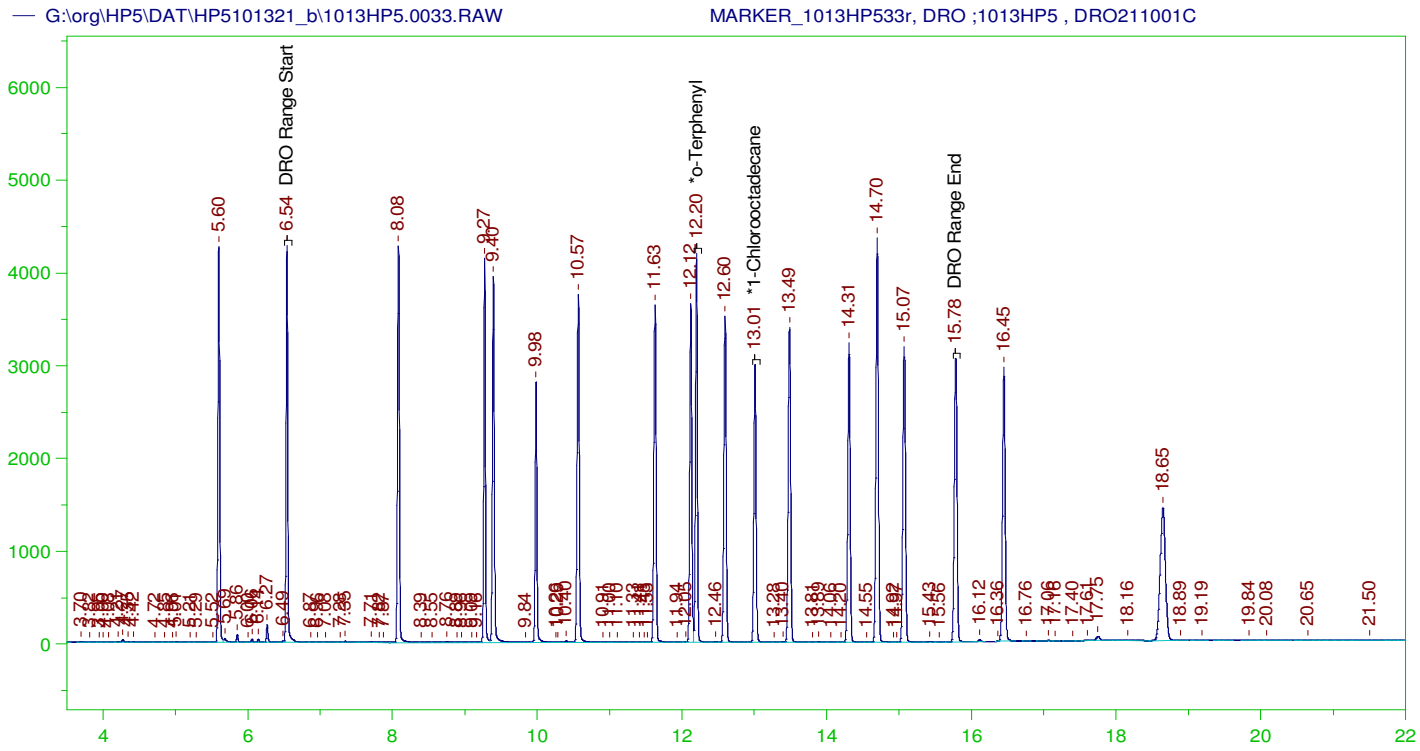


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1013HP533r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0033.RAW
Date & Time Acquired: 10/14/2021 12:41:54 PM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | .2 | .228 | 114.24 | - |
| *1-Chlorooctadecane | 13.009 | .2 | .185 | 92.48 | - |

DRO Area:1.04407E+08 DRO Amount: 3.544346
TEH Area:1.27631E+08 TEH Amount: 4.332742

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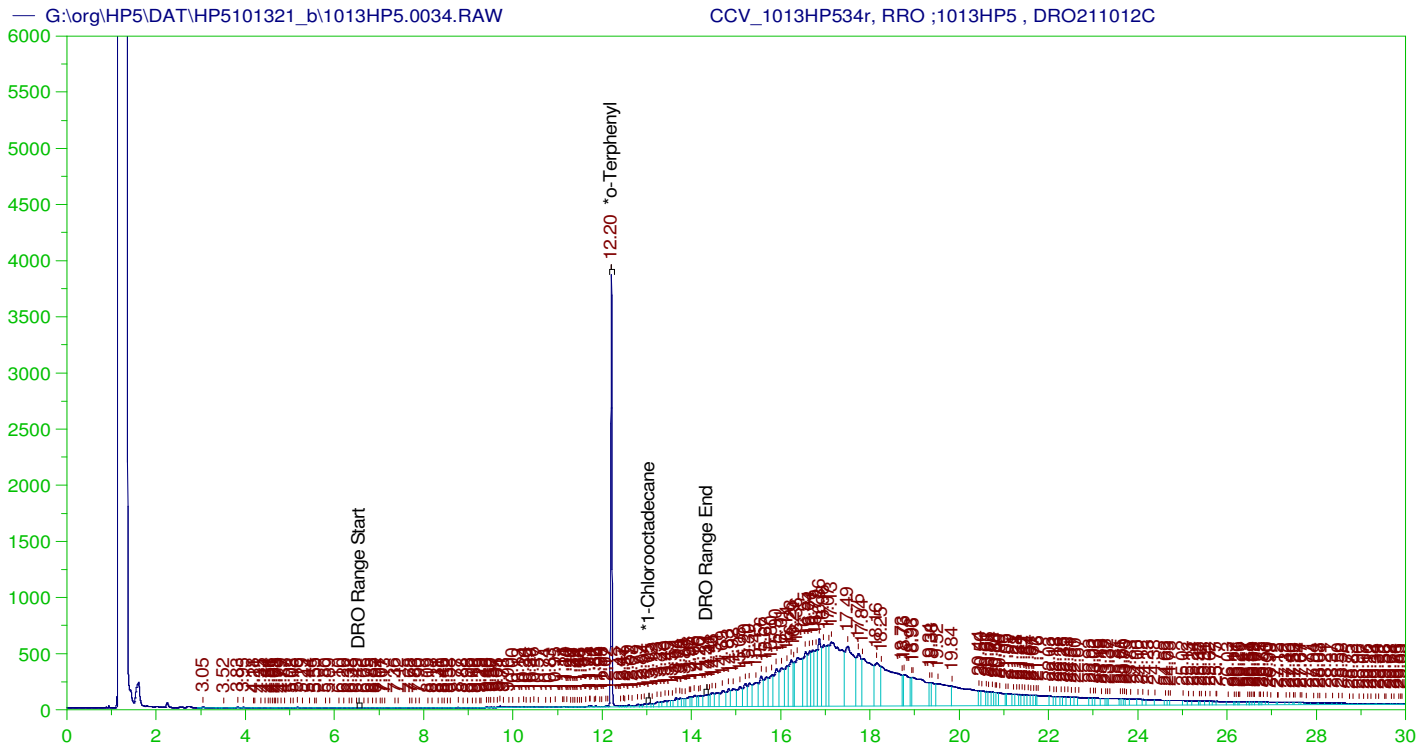


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP534r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW
Date & Time Acquired: 10/14/2021 1:24:13 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 214.364 | 107.18 | - |
| *1-Chlorooctadecane | 13.049 | 200. | 4.373 | 2.19 | - |

DRO Area:6563576 DRO Amount: 229.9587
TEH (Oil Range) Area:1.403174E+08 TEH (Oil Range) Amount: 4916.102

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4916.1 | 98.32 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 214.364 | 107.18 | 85-115 |
| *1-Chlorooctadecane | 13.049 | 200. | 4.373 | 2.19 | 85-115 |

AMN 10/21/2021

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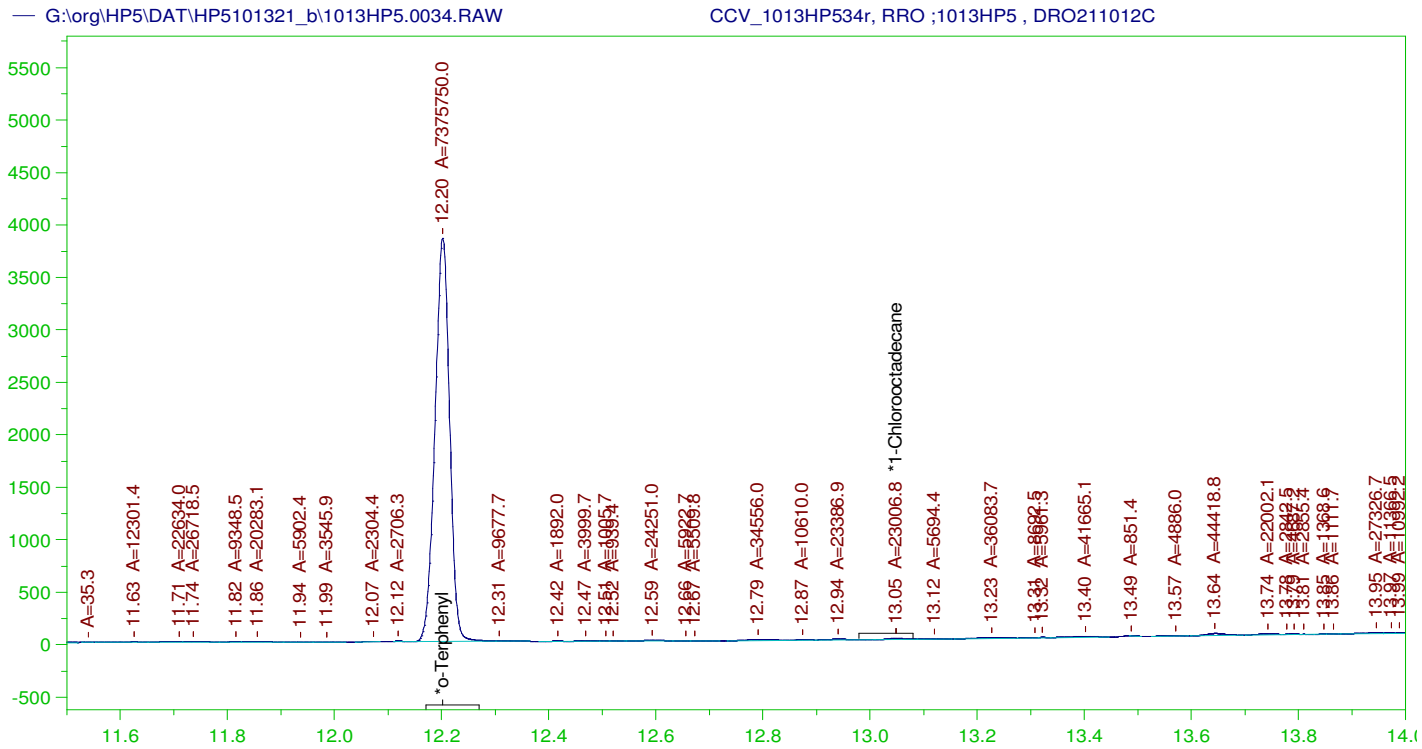


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP534r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW
Date & Time Acquired: 10/14/2021 1:24:13 PM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 210.308 | 105.15 | - |
| *1-Chlorooctadecane | 13.049 | 200. | .656 | .33 | - |

DRO Area:825565.2 DRO Amount: 28.92416
TEH Area:2141455 TEH Amount: 75.02711

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 75.03 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 210.308 | 105.15 | 85-115 |
| *1-Chlorooctadecane | 13.049 | 200. | .656 | .33 | 85-115 |

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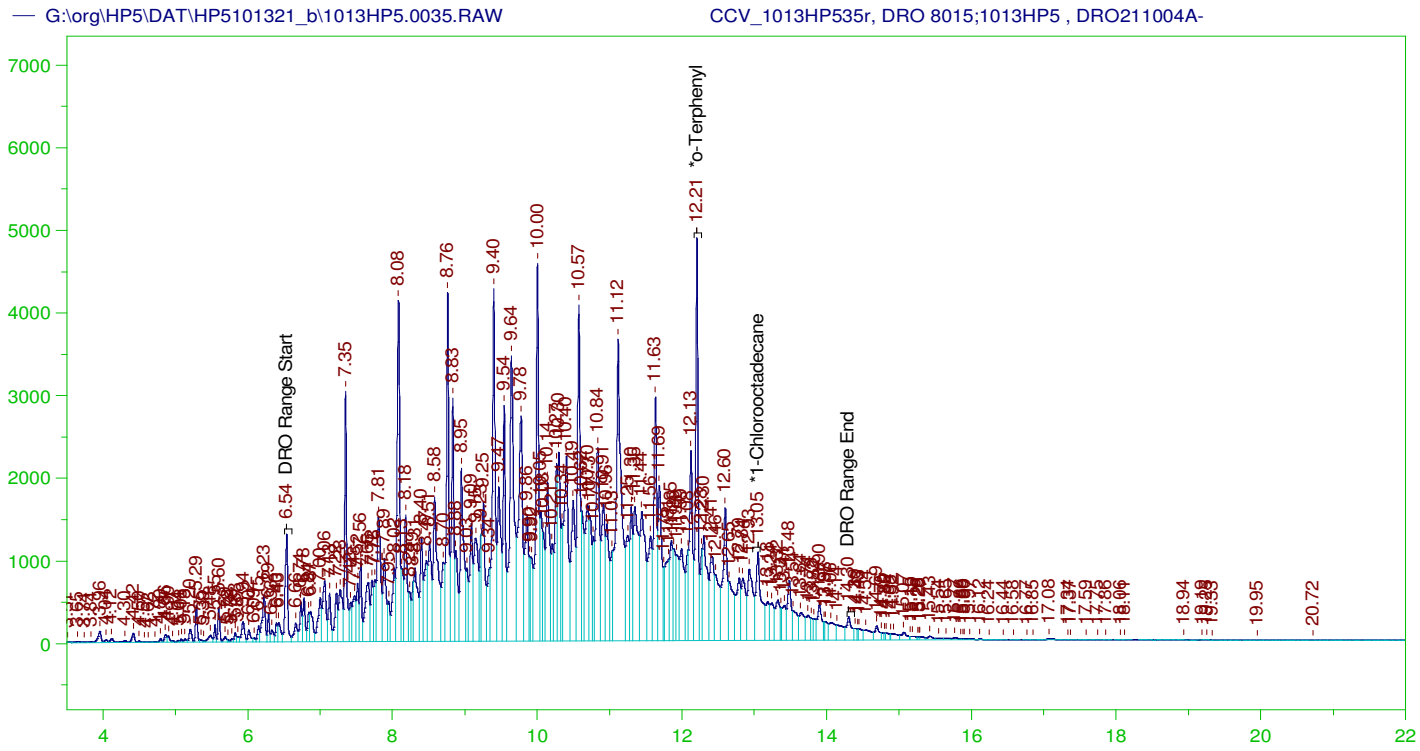


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW
Date & Time Acquired: 10/14/2021 2:06:51 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 342.987 | 171.49 | - |
| *1-Chlorooctadecane | 13.048 | 200. | 156.924 | 78.46 | - |

DRO Area:4.518377E+08 DRO Amount: 15338.72
TEH Area:4.681404E+08 TEH Amount: 15892.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15892.15 | 105.95 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 342.987 | 171.49 | 85-115 |
| *1-Chlorooctadecane | 13.048 | 200. | 156.924 | 78.46 | 85-115 |

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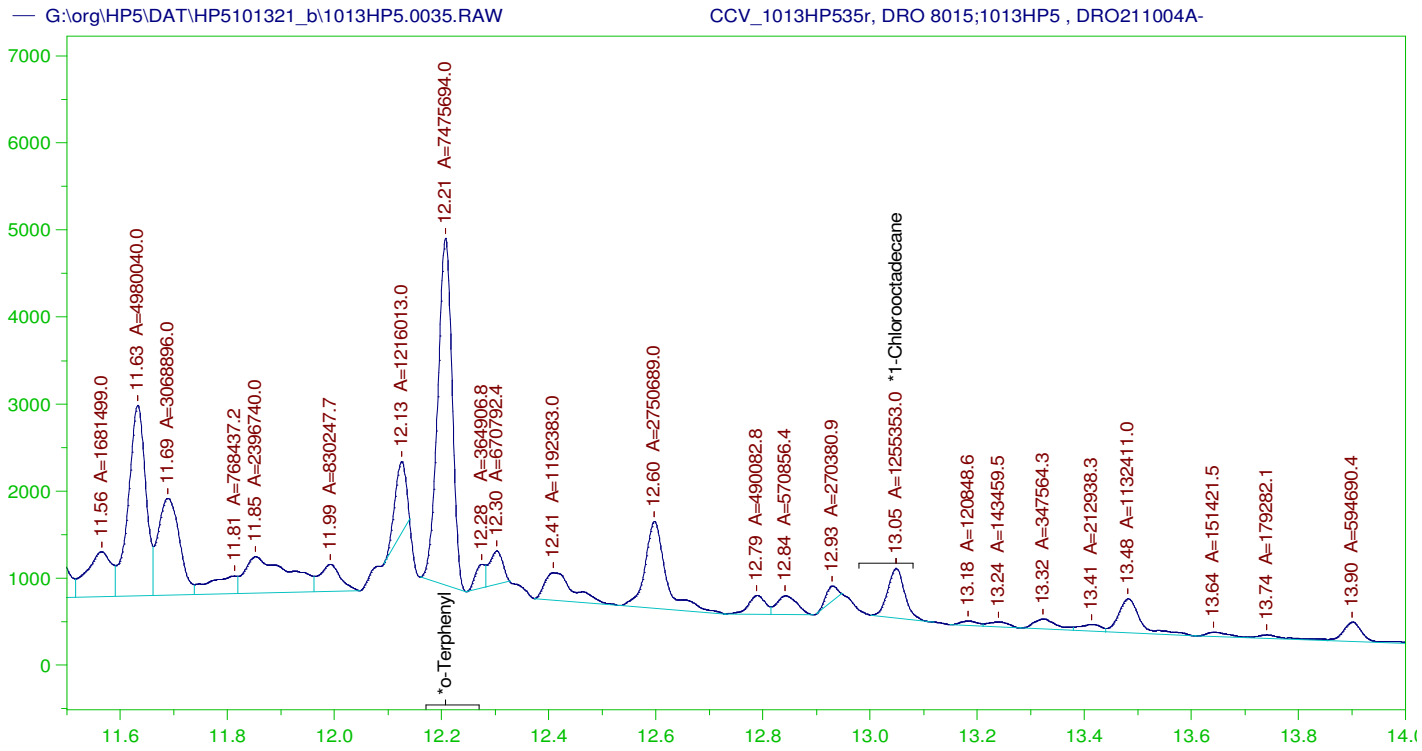



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW
Date & Time Acquired: 10/14/2021 2:06:51 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 213.157 | 106.58 | - |
| *1-Chlorooctadecane | 13.048 | 200. | 35.794 | 17.9 | - |

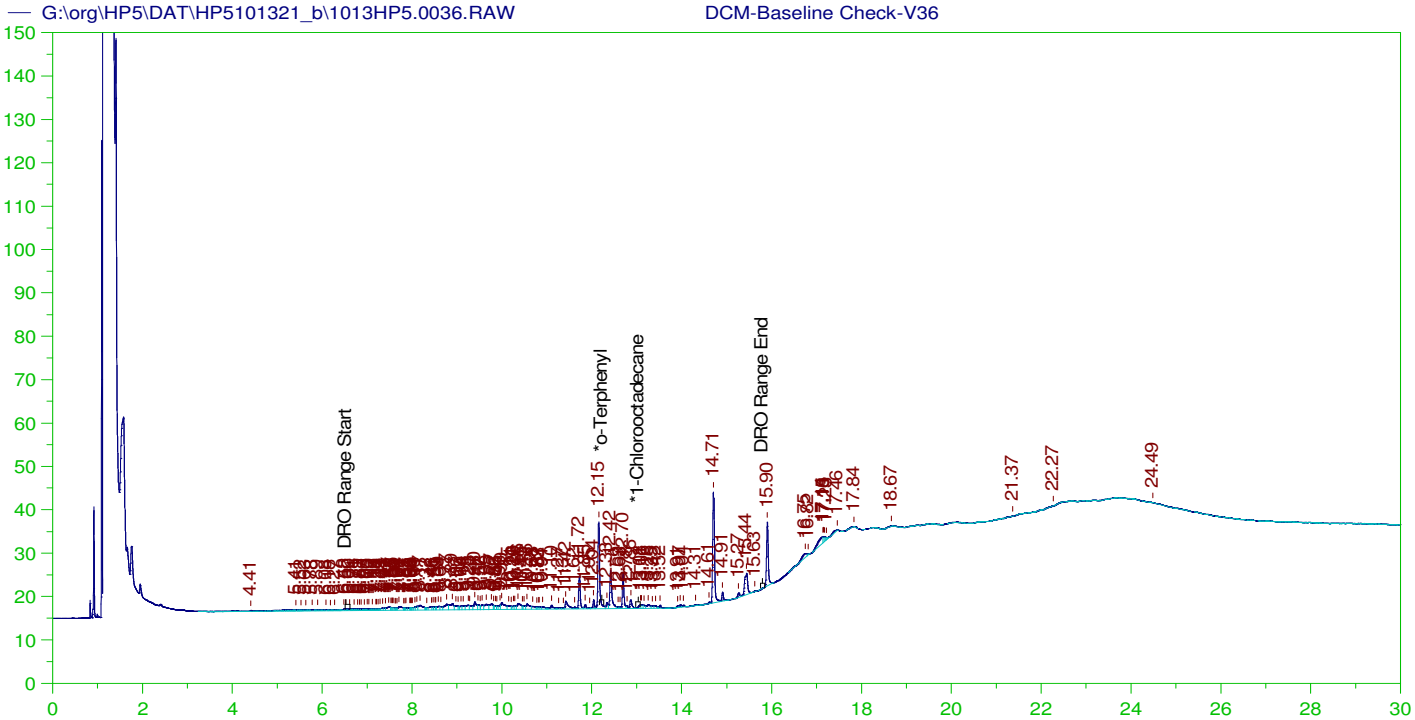
DRO Area:2.532008E+08 DRO Amount: 8595.512
TEH Area:2.628864E+08 TEH Amount: 8924.311

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8924.31 | 59.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 213.157 | 106.58 | 85-115 |
| *1-Chlorooctadecane | 13.048 | 200. | 35.794 | 17.9 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\035_CCV_1013HP535r_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

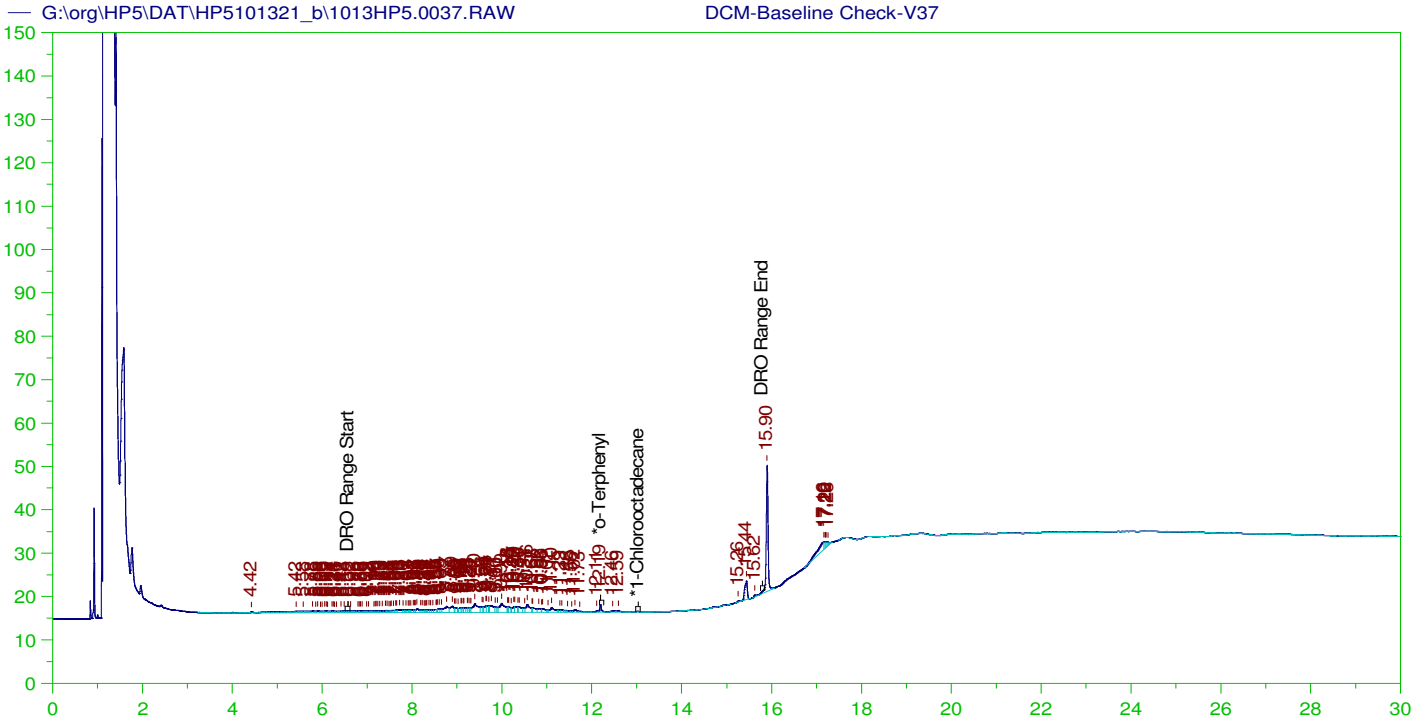
Sample Name: DCM-Baseline Check-V36
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0036.RAW
Date & Time Acquired: 10/14/2021 3:07:06 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.982 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:470719.3 DRO Amount: 15.9797
TEH Area:587746.1 TEH Amount: 19.95246

G:\org\HP5\dat\HP5101321_b\Review\036_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

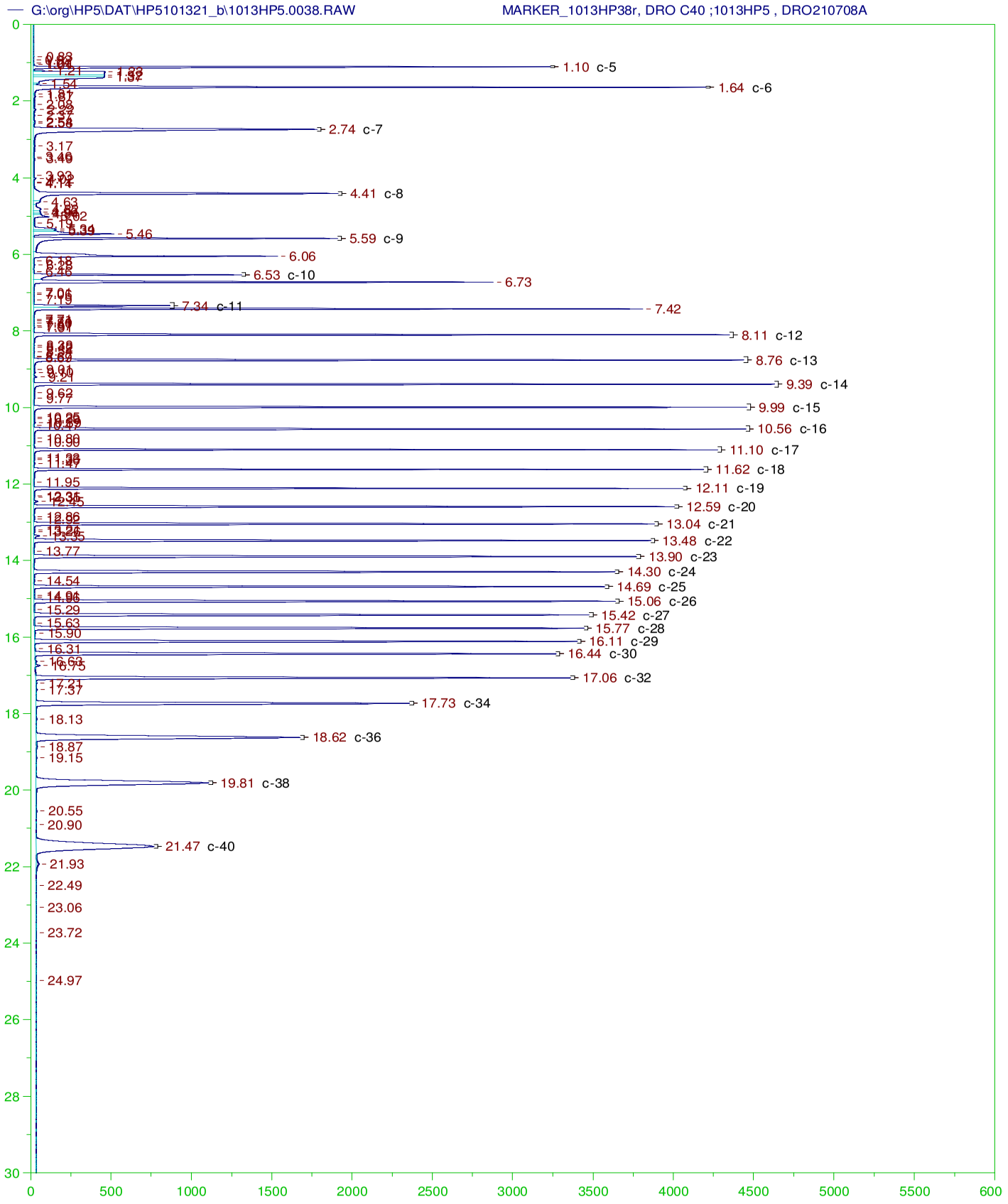
Sample Name: DCM-Baseline Check-V37
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0037.RAW
Date & Time Acquired: 10/14/2021 3:49:24 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.189 | 200. | .142 | .07 | - |
| *1-Chlorooctadecane | 29.986 | 200. | . | . | - |

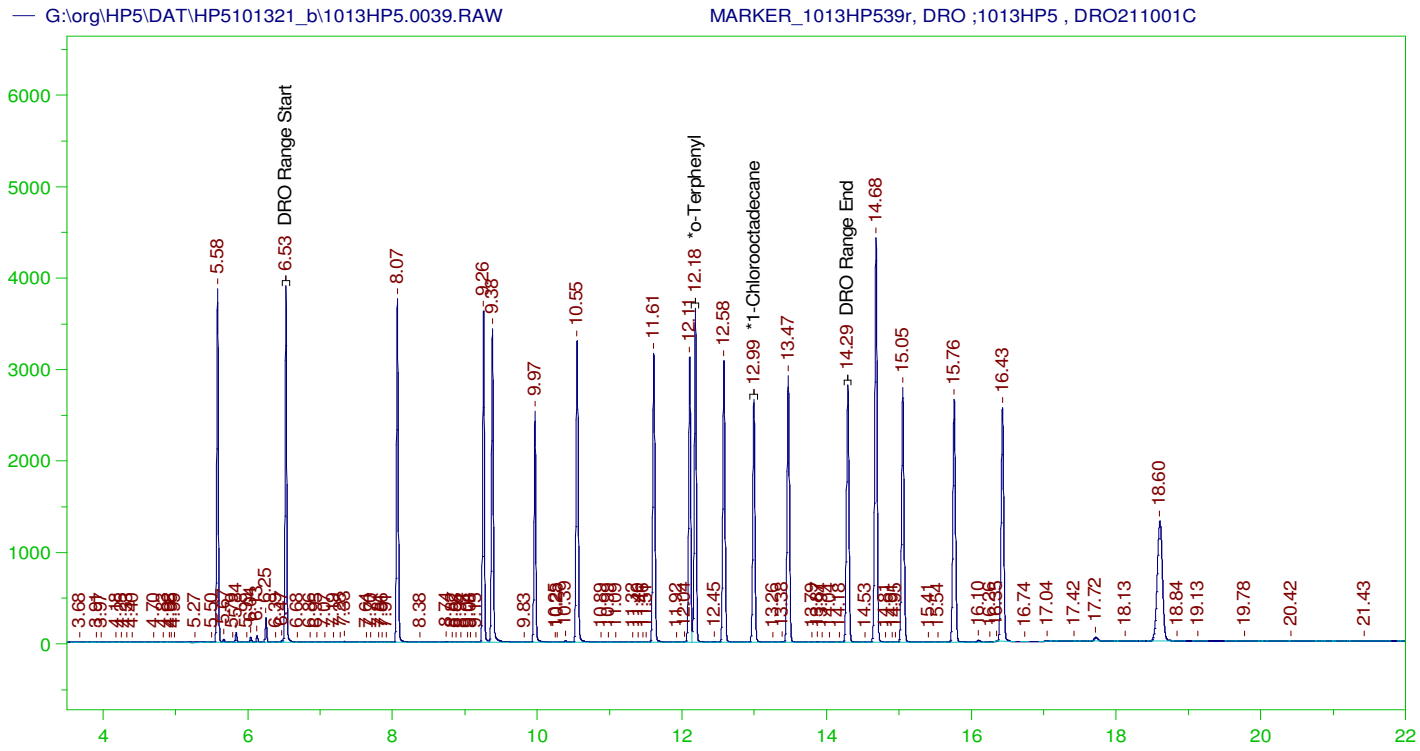
DRO Area:275705.9 DRO Amount: 9.359501
TEH Area:430383.9 TEH Amount: 14.61042

G:\org\HP5\dat\HP5101321_b\Review\037_DCM-Baseline Chec_DR_8015-HS-LEXP.xls






G:\org\HP5\dat\HP5101321_b\Review\038_MARKER_1013HP38r_CSC211013.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

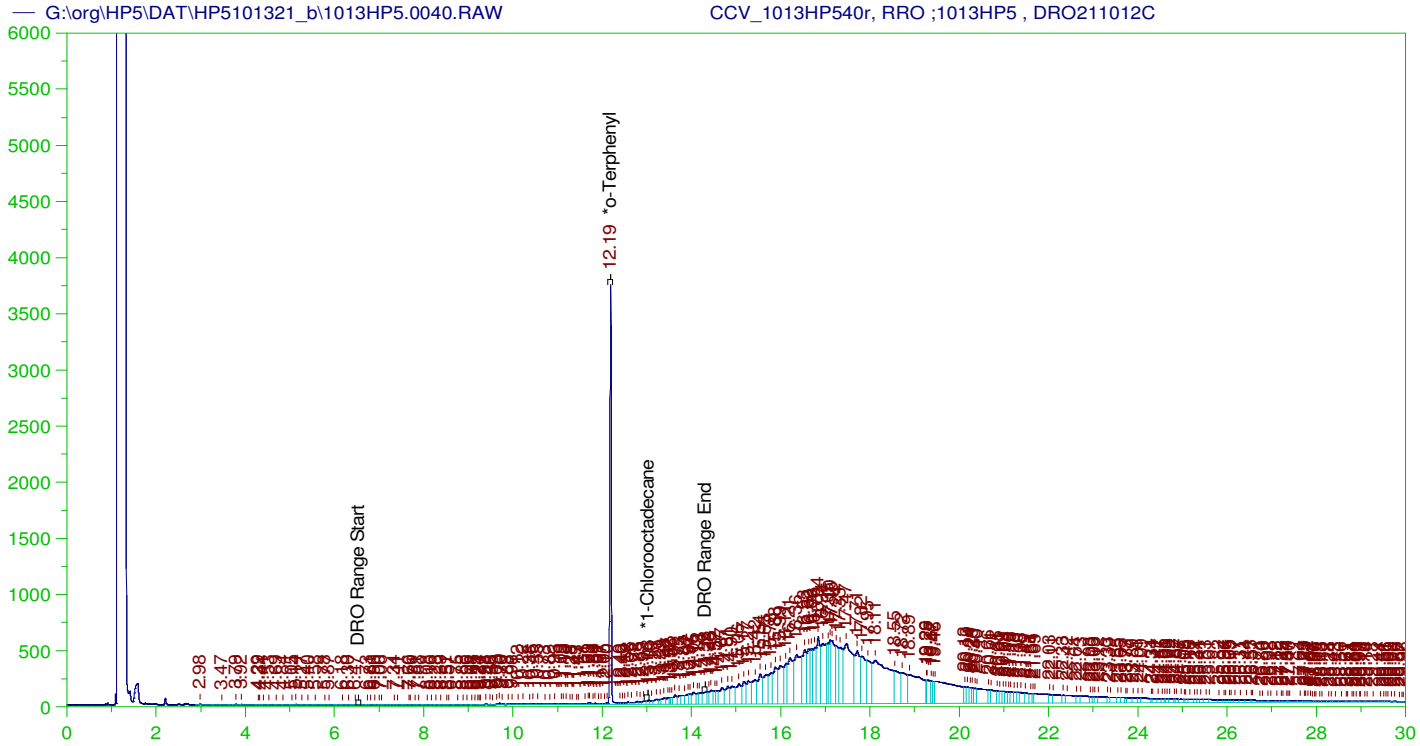
Sample Name: MARKER_1013HP539r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0039.RAW
Date & Time Acquired: 10/14/2021 5:14:51 PM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | .2 | .202 | 101.1 | - |
| *1-Chlorooctadecane | 12.993 | .2 | .164 | 81.84 | - |

DRO Area:6.892374E+07 DRO Amount: 2.339782
TEH Area:1.134687E+08 TEH Amount: 3.851967

G:\org\HP5\dat\HP5101321_b\Review\039_MARKER_1013HP539r_DC_8015-24-HSa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW
Date & Time Acquired: 10/14/2021 5:58:15 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 210.849 | 105.42 | - |
| *1-Chlorooctadecane | 13.03 | 200. | 4.309 | 2.15 | - |

DRO Area:6458886 DRO Amount: 226.2908
TEH (Oil Range) Area:1.345355E+08 TEH (Oil Range) Amount: 4713.531

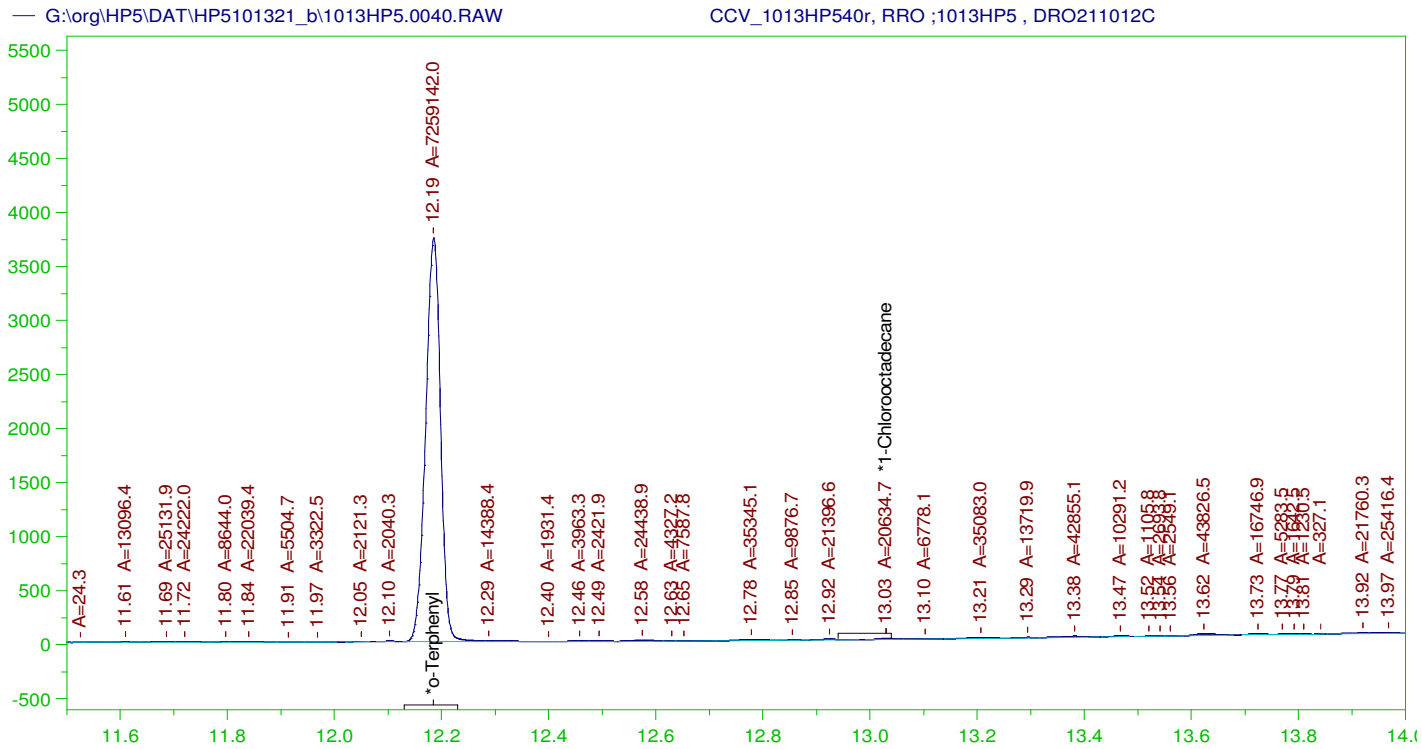
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4713.53 | 94.27 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 210.849 | 105.42 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | 4.309 | 2.15 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\040_CCV_1013HP540r_DC_OIL-AJA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW
Date & Time Acquired: 10/14/2021 5:58:15 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

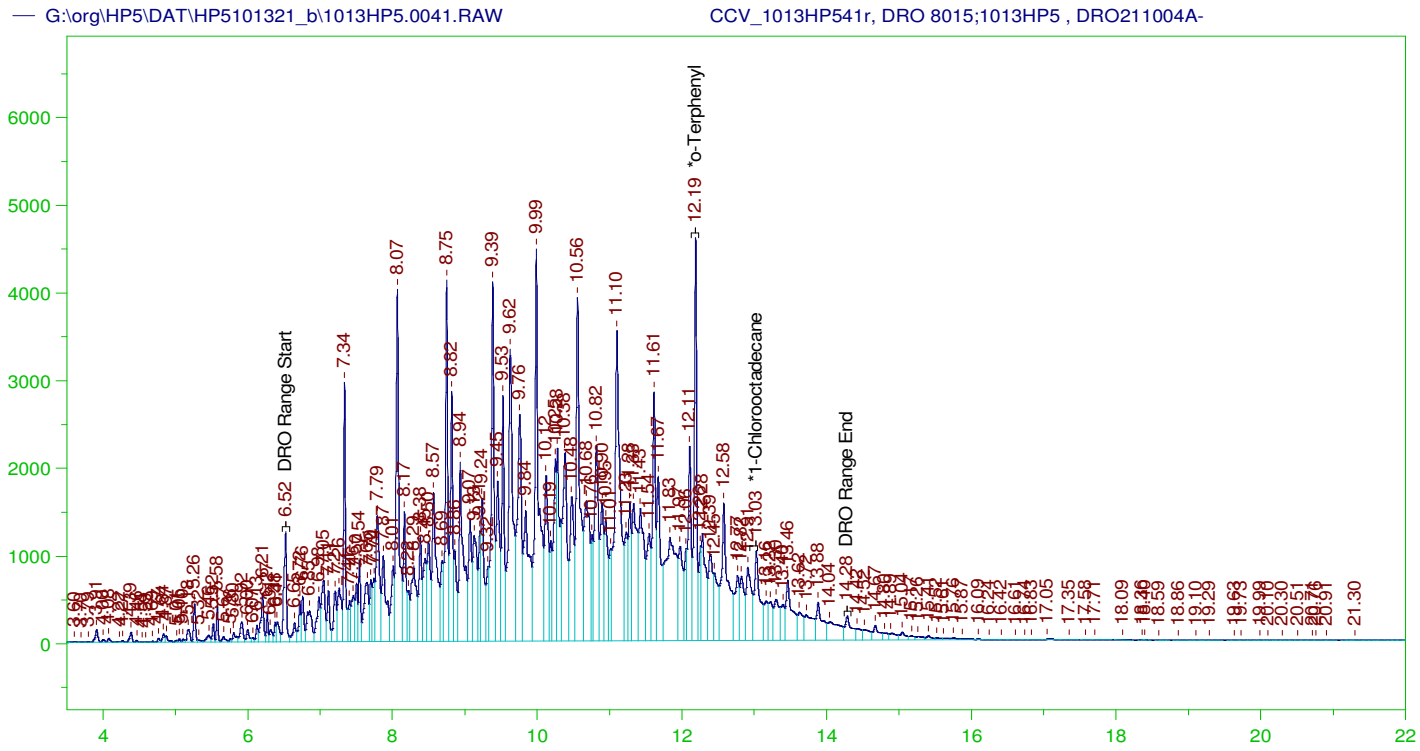
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 206.983 | 103.49 | - |
| *1-Chlorooctadecane | 13.03 | 200. | .588 | .29 | - |

DRO Area:848873.9 DRO Amount: 29.74079
TEH Area:2112552 TEH Amount: 74.01448

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 74.01 | 1.48 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 206.983 | 103.49 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | .588 | .29 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW
Date & Time Acquired: 10/14/2021 6:41:13 PM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 328.737 | 164.37 | - |
| *1-Chlorooctadecane | 13.029 | 200. | 150.84 | 75.42 | - |

DRO Area:4.350192E+08 DRO Amount: 14767.77
TEH Area:4.504288E+08 TEH Amount: 15290.89

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15290.89 | 101.94 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 328.737 | 164.37 | 85-115 |
| *1-Chlorooctadecane | 13.029 | 200. | 150.84 | 75.42 | 85-115 |

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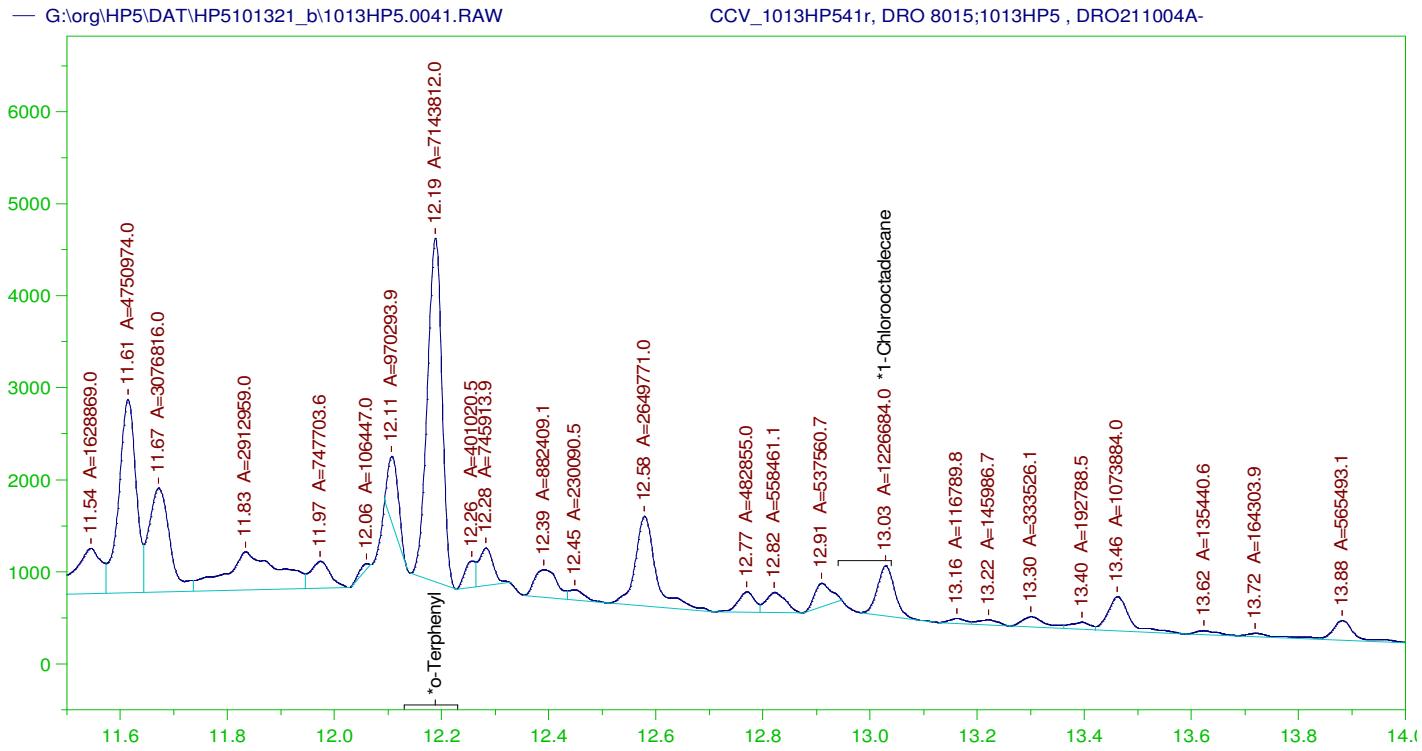


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW
Date & Time Acquired: 10/14/2021 6:41:13 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 203.694 | 101.85 | - |
| *1-Chlorooctadecane | 13.029 | 200. | 34.977 | 17.49 | - |

DRO Area:2.423629E+08 DRO Amount: 8227.593
TEH Area:2.523258E+08 TEH Amount: 8565.805

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8565.81 | 57.11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 203.694 | 101.85 | 85-115 |
| *1-Chlorooctadecane | 13.029 | 200. | 34.977 | 17.49 | 85-115 |

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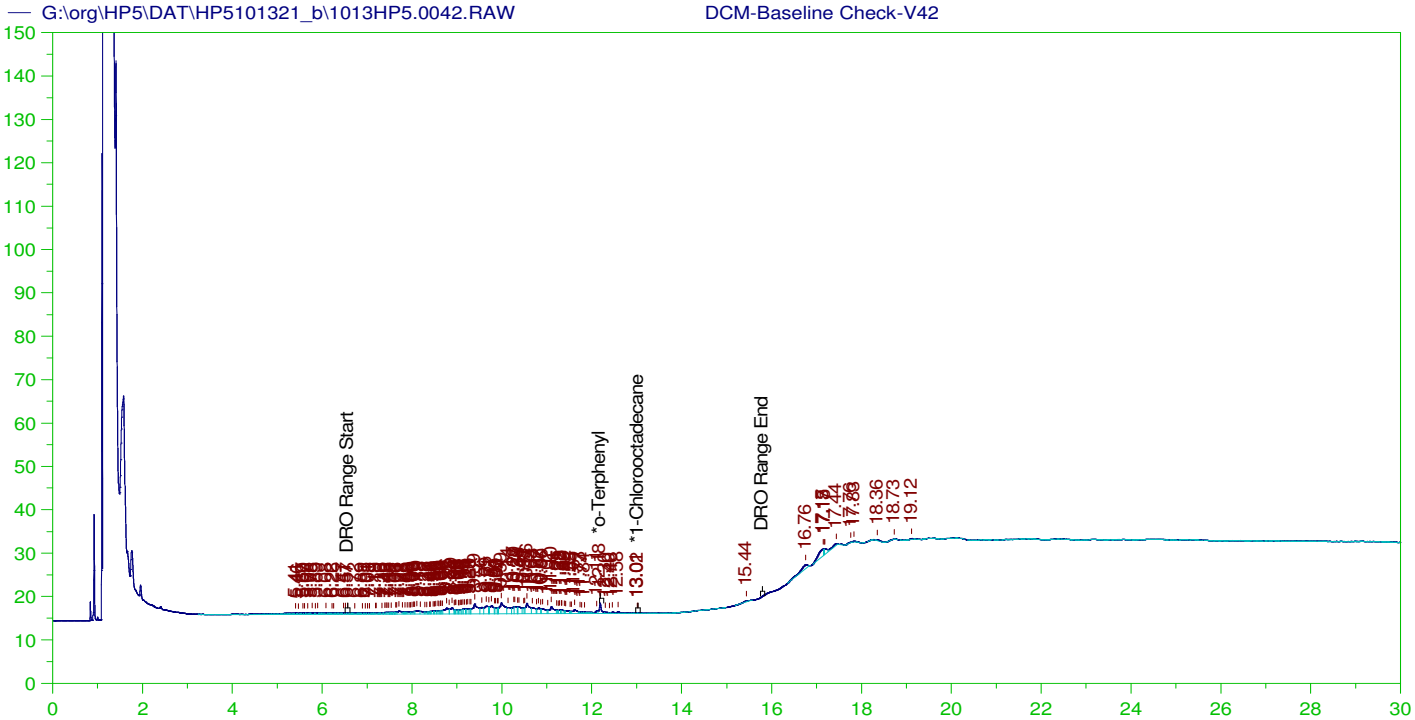



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V42
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0042.RAW
Date & Time Acquired: 10/14/2021 7:24:24 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

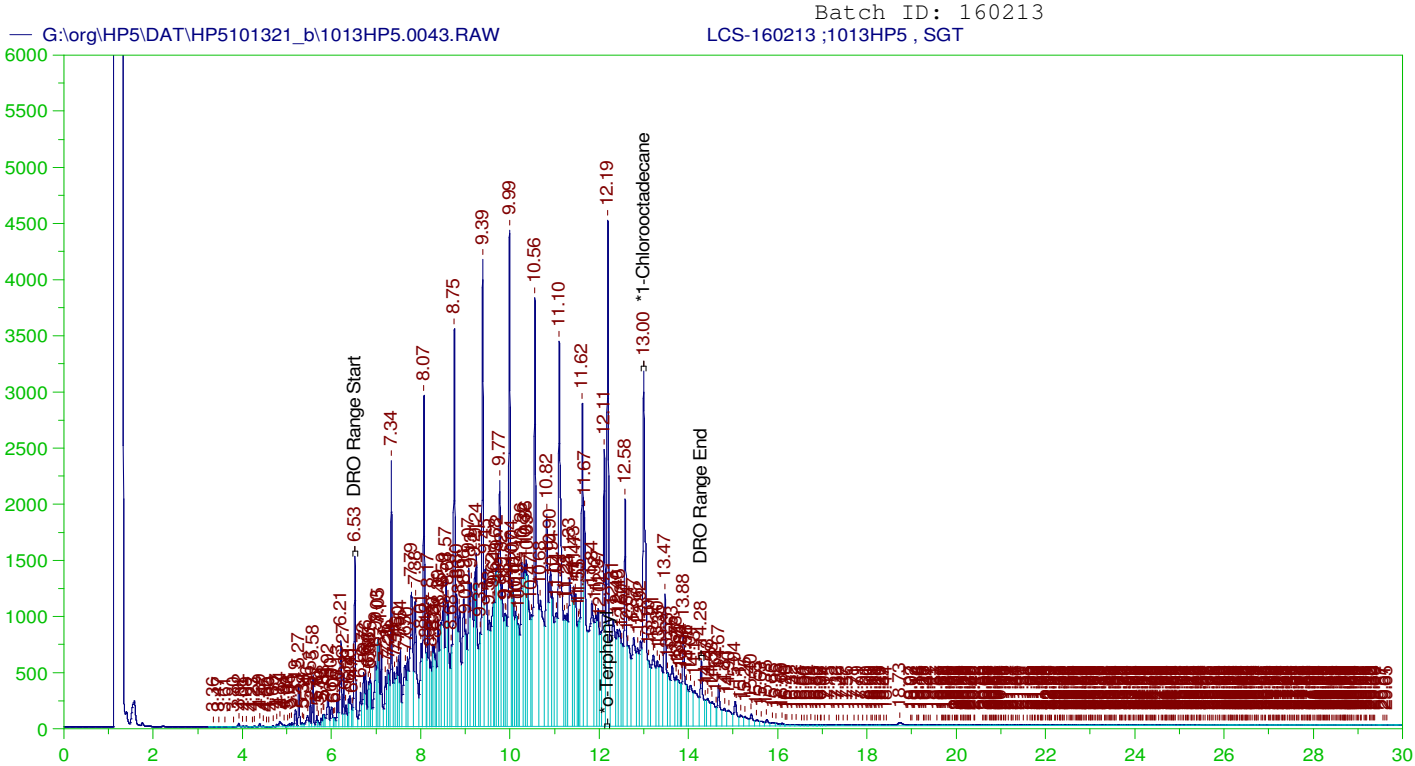
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.182 | 200. | .24 | .12 | - |
| *1-Chlorooctadecane | 13.024 | 200. | .016 | .01 | - |

DRO Area:298035.3 DRO Amount: 10.11753
TEH Area:377329.5 TEH Amount: 12.80936

G:\org\HP5\dat\HP5101321_b\Review\042_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0043.RAW
Date & Time Acquired: 10/14/2021 8:07:16 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.19 | .2 | .341 | 170.27 | - |
| *1-Chlorooctadecane | 12.997 | .2 | .354 | 177.16 | - |

DRO Area:4.05568E+08 DRO Amount: 13.76798
TEH Area:4.332774E+08 TEH Amount: 14.70864

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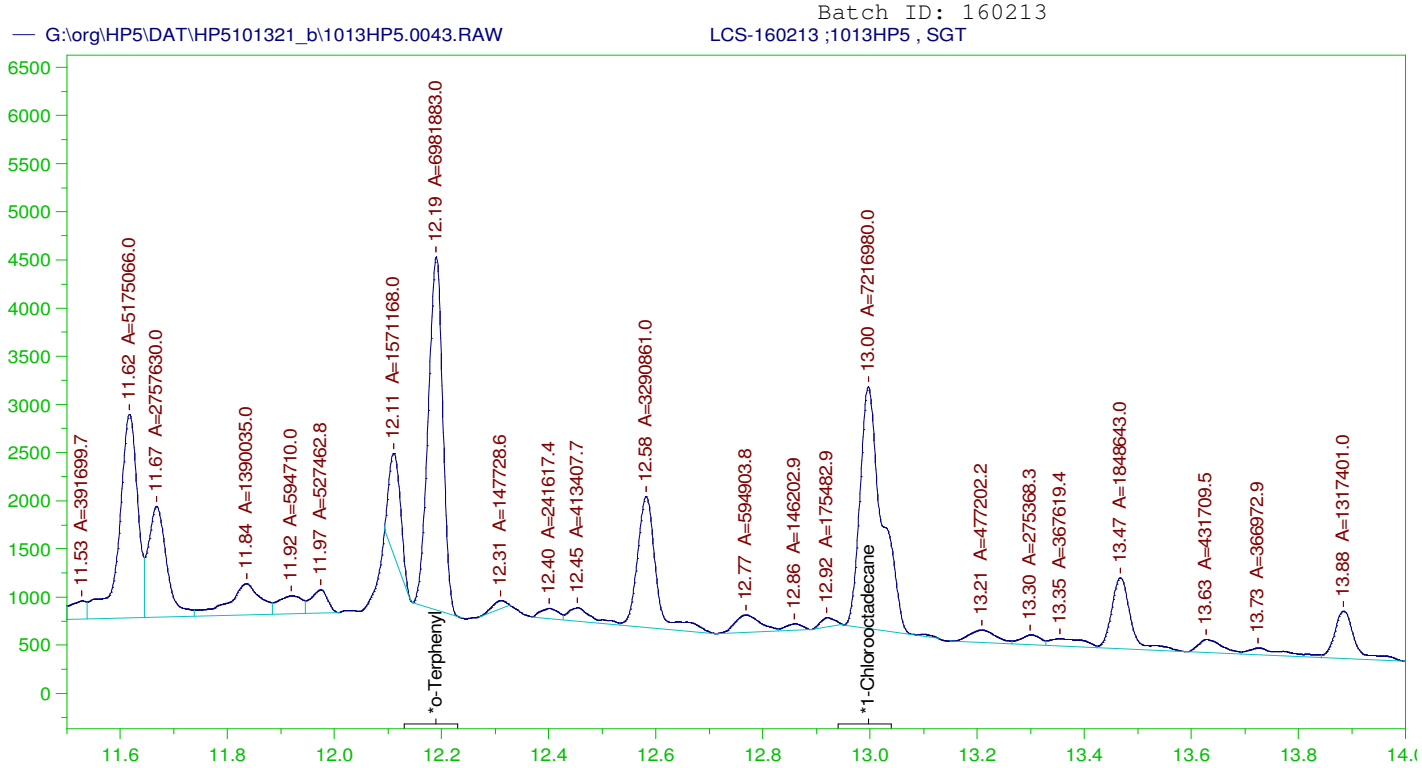
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0043.RAW
Date & Time Acquired: 10/14/2021 8:07:16 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.19 | .2 | .199 | 99.54 | - |
| *1-Chlorooctadecane | 12.997 | .2 | .206 | 102.89 | - |

DRO Area:1.95124E+08 DRO Amount: 6.623953
TEH Area:2.066326E+08 TEH Amount: 7.014641

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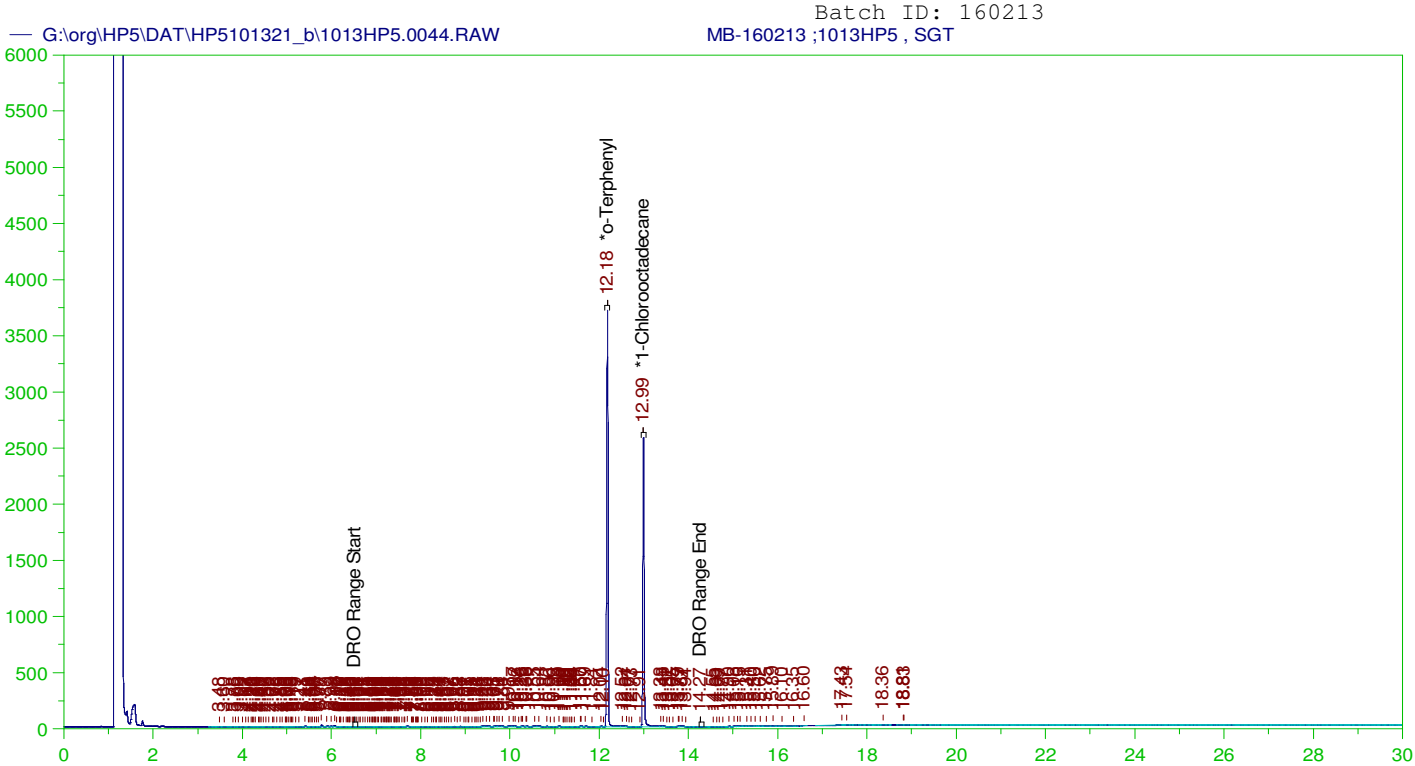
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0044.RAW
Date & Time Acquired: 10/14/2021 8:50:10 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .206 | 102.99 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .162 | 80.98 | - |

DRO Area:484911.8 DRO Amount: 0.0164615
TEH Area:741644.8 TEH Amount: 2.517691E-02

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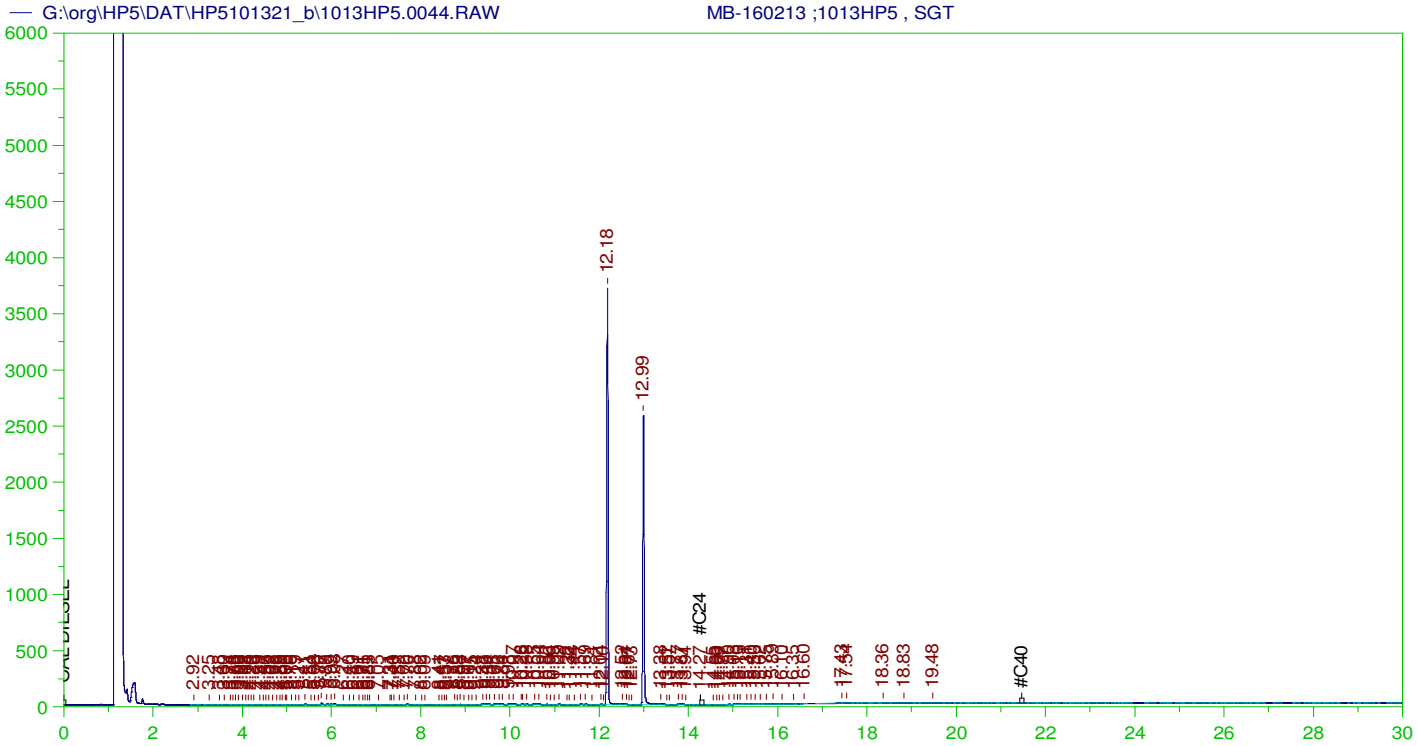


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0044.RAW
Date & Time Acquired: 10/14/2021 8:50:10 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.25 to 21.52

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:75587.62 RRO AMOUNT: 2.648256E-03

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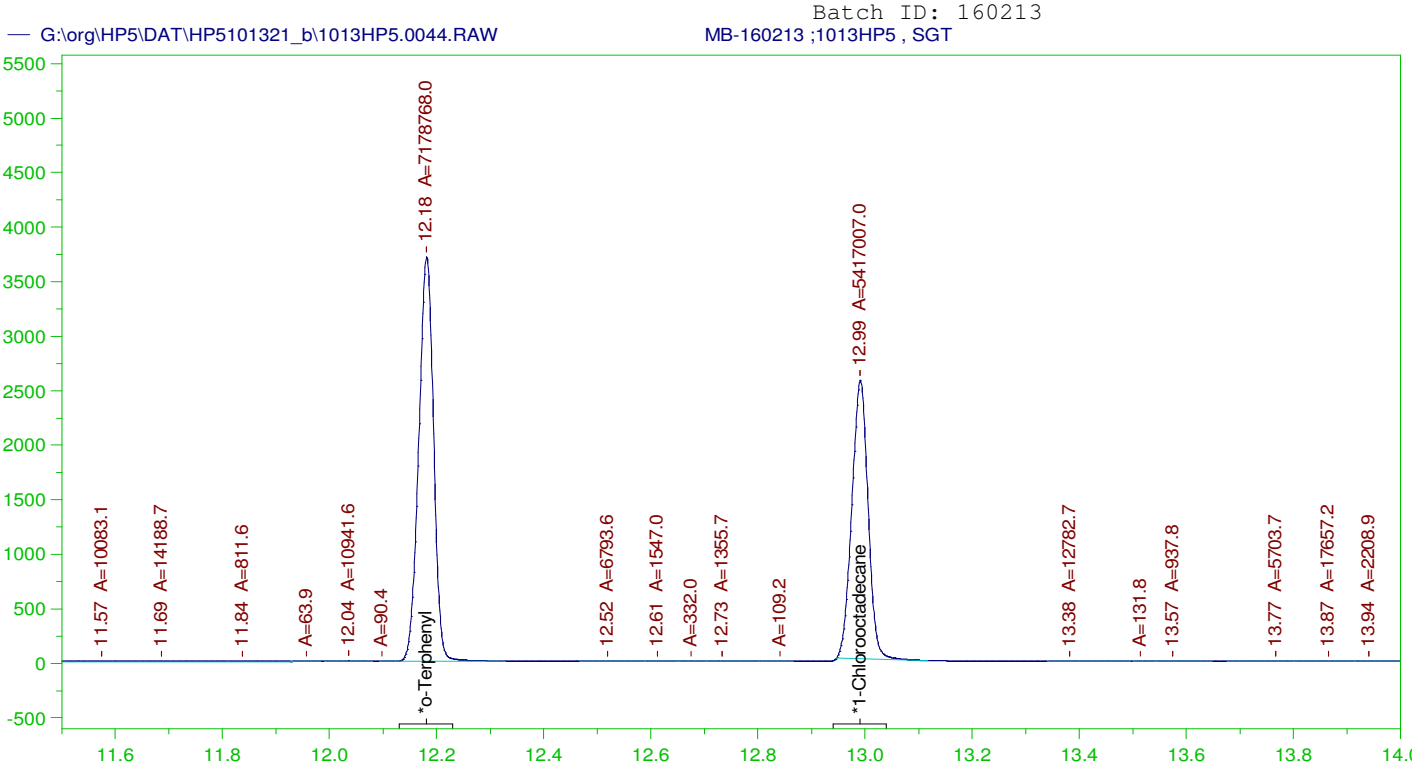
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0044.RAW
Date & Time Acquired: 10/14/2021 8:50:10 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

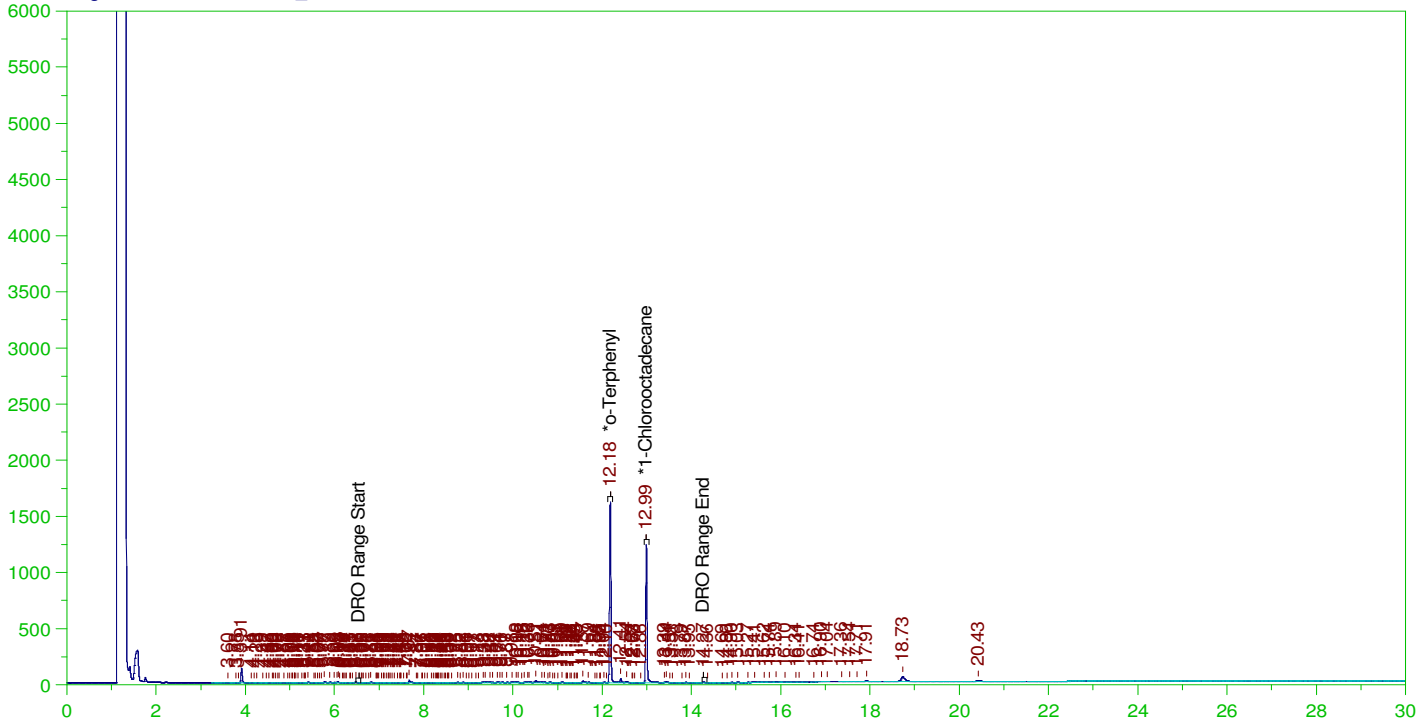
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .205 | 102.35 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .154 | 77.23 | - |

DRO Area:434247.7 DRO Amount: 1.474158E-02
TEH Area:668893.9 TEH Amount: 2.270721E-02

G:\org\HP5\dat\HP5101321_b\Review\044_MB-160213_DS_8015-area-HSA-L#.xls

**ERH1772 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

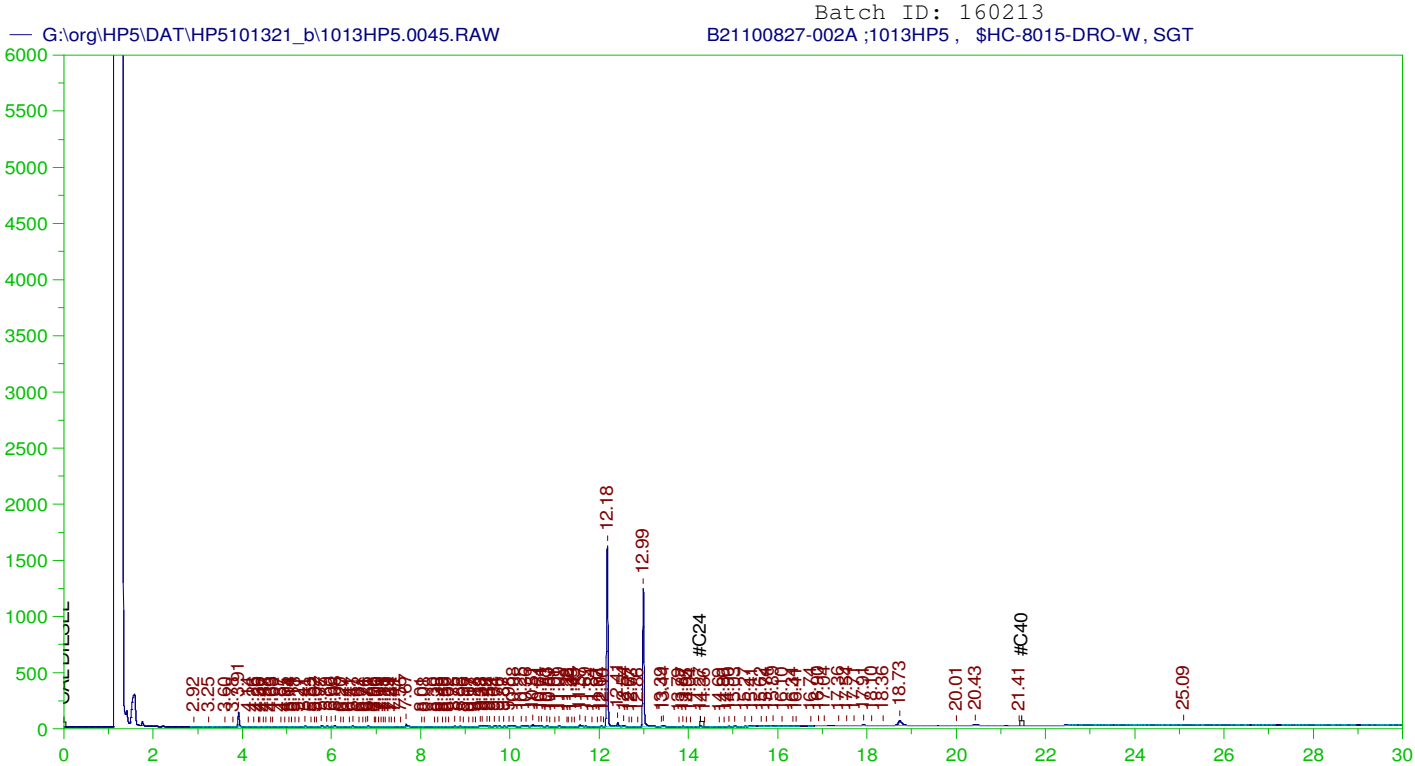
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.177 | .19 | .086 | 45.32 | - |
| *1-Chlorooctadecane | 12.987 | .19 | .075 | 39.62 | - |

DRO Area:799013.4 DRO Amount: 2.583279E-02
TEH Area:1628058 TEH Amount: 5.263652E-02

G:\org\HP5\dat\HP5101321_b\Review\045_B21100827-002A_DR_8015-C24-HSa-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.25 to 21.52

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:349443.6 RRO AMOUNT: 1.165996E-02

G:\org\HP5\dat\HP5101321_b\Review\045_B21100827-002A_DR_OIL-S-AJa-L%.xls

**ERH1772 (RHMW12A)** Batch ID: 160213

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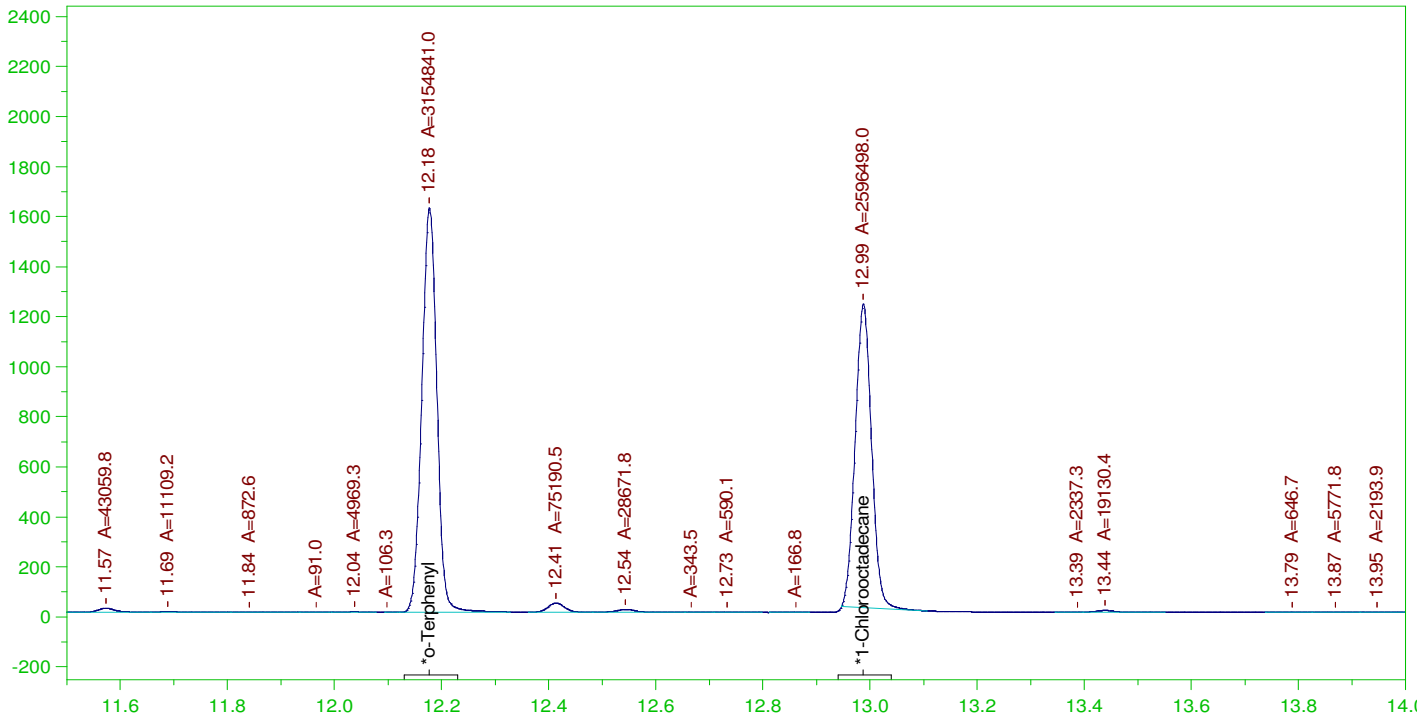



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

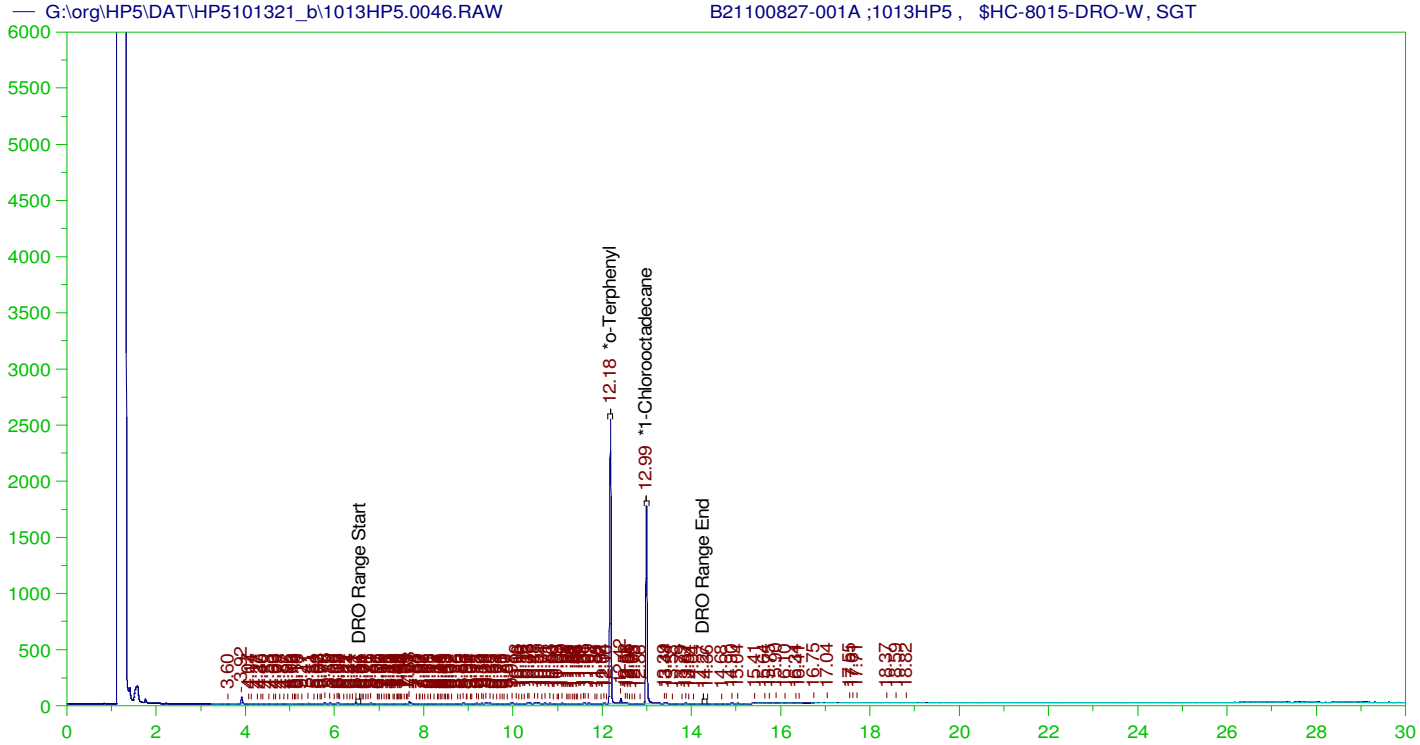
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.177 | .19 | .086 | 44.98 | - |
| *1-Chlorooctadecane | 12.987 | .19 | .071 | 37.02 | - |

DRO Area:675439.8 DRO Amount: 2.183755E-02
TEH Area:1197414 TEH Amount: 3.871342E-02

G:\org\HP5\dat\HP5101321_b\Review\045_B21100827-002A_DS_8015-area-HSA-L#.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .191 | .134 | 70.08 | - |
| *1-Chlorooctadecane | 12.989 | .191 | .108 | 56.38 | - |

DRO Area:621063.5 DRO Amount: 2.017559E-02
TEH Area:961300.5 TEH Amount: 3.122838E-02

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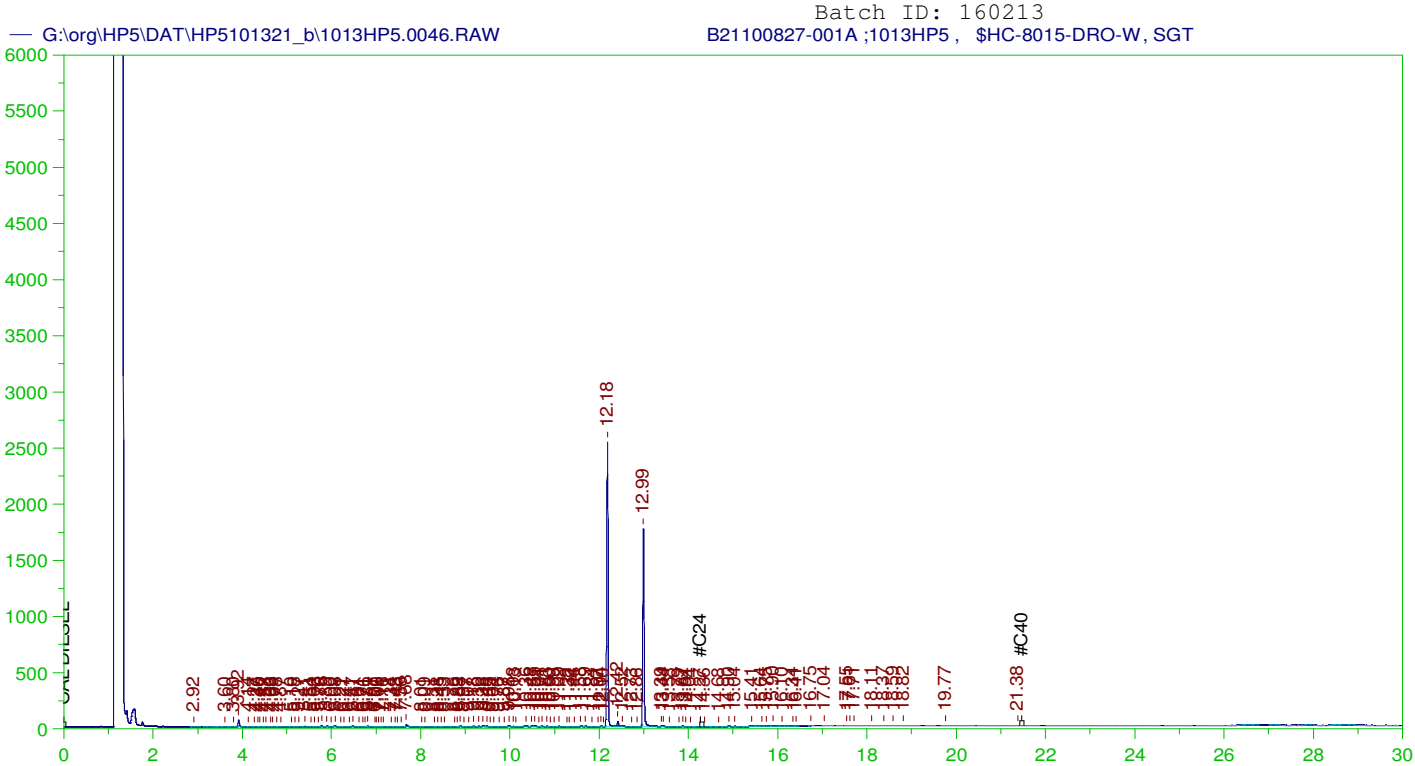
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.25 to 21.52

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:55630.14 RRO AMOUNT: 1.865105E-03

G:\org\HP5\dat\HP5101321_b\Review\046_B21100827-001A_DR_OIL-S-AJa-L%.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

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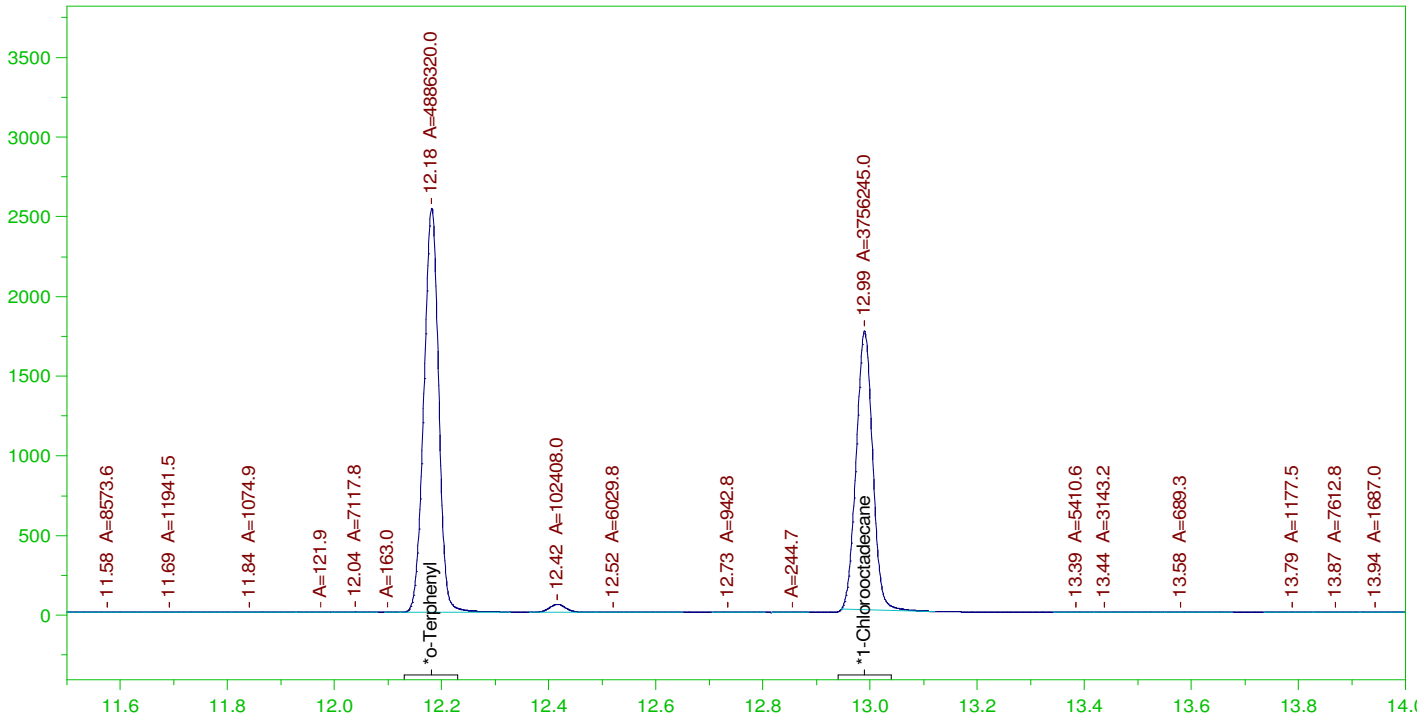


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .191 | .133 | 69.66 | - |
| *1-Chlorooctadecane | 12.989 | .191 | .102 | 53.55 | - |

DRO Area:529016.8 DRO Amount: 0.0171854
TEH Area:834788.9 TEH Amount: 2.711858E-02

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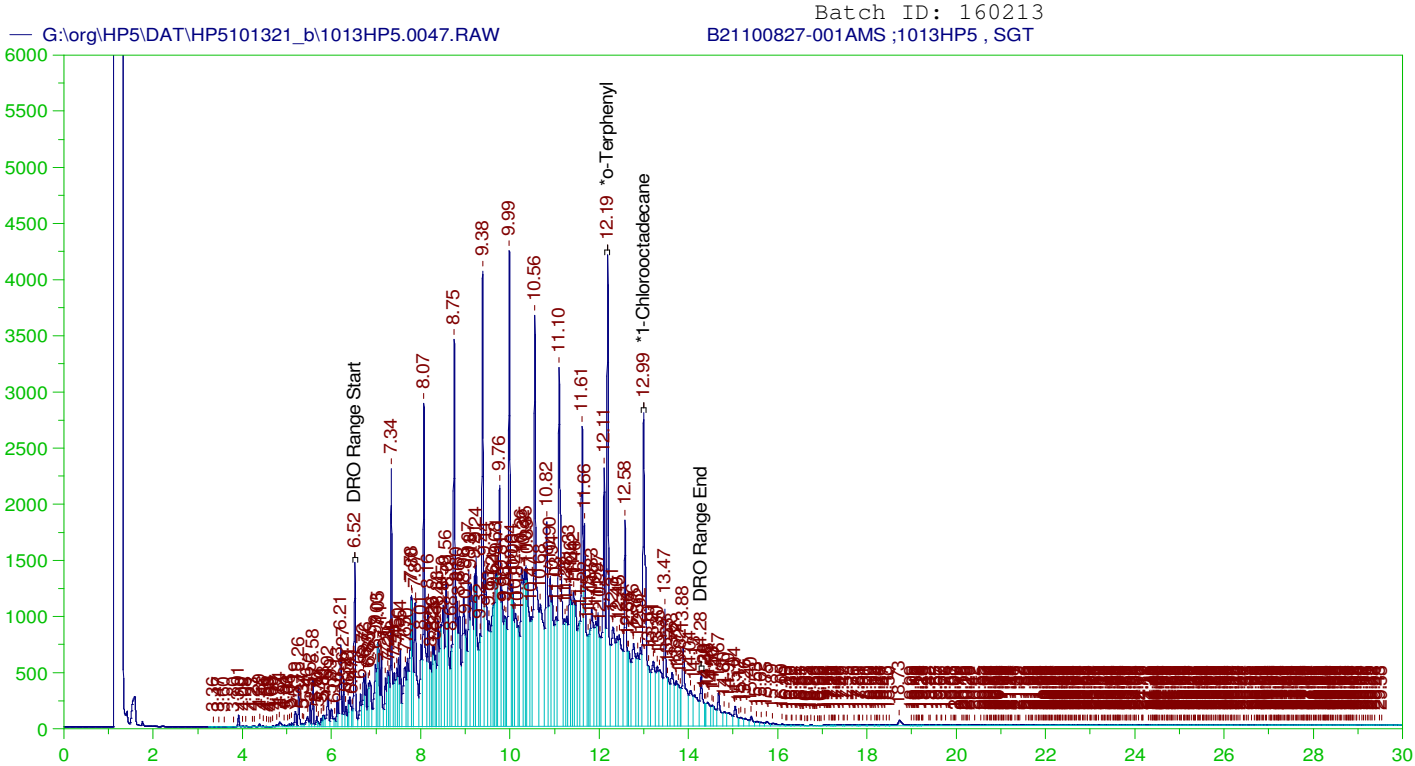
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMS ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0047.RAW
Date & Time Acquired: 10/14/2021 10:58:49 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.186 | .4 | .651 | 162.83 | - |
| *1-Chlorooctadecane | 12.994 | .4 | .64 | 159.99 | - |

DRO Area:3.887462E+08 DRO Amount: 26.39385
TEH Area:4.128518E+08 TEH Amount: 28.03049

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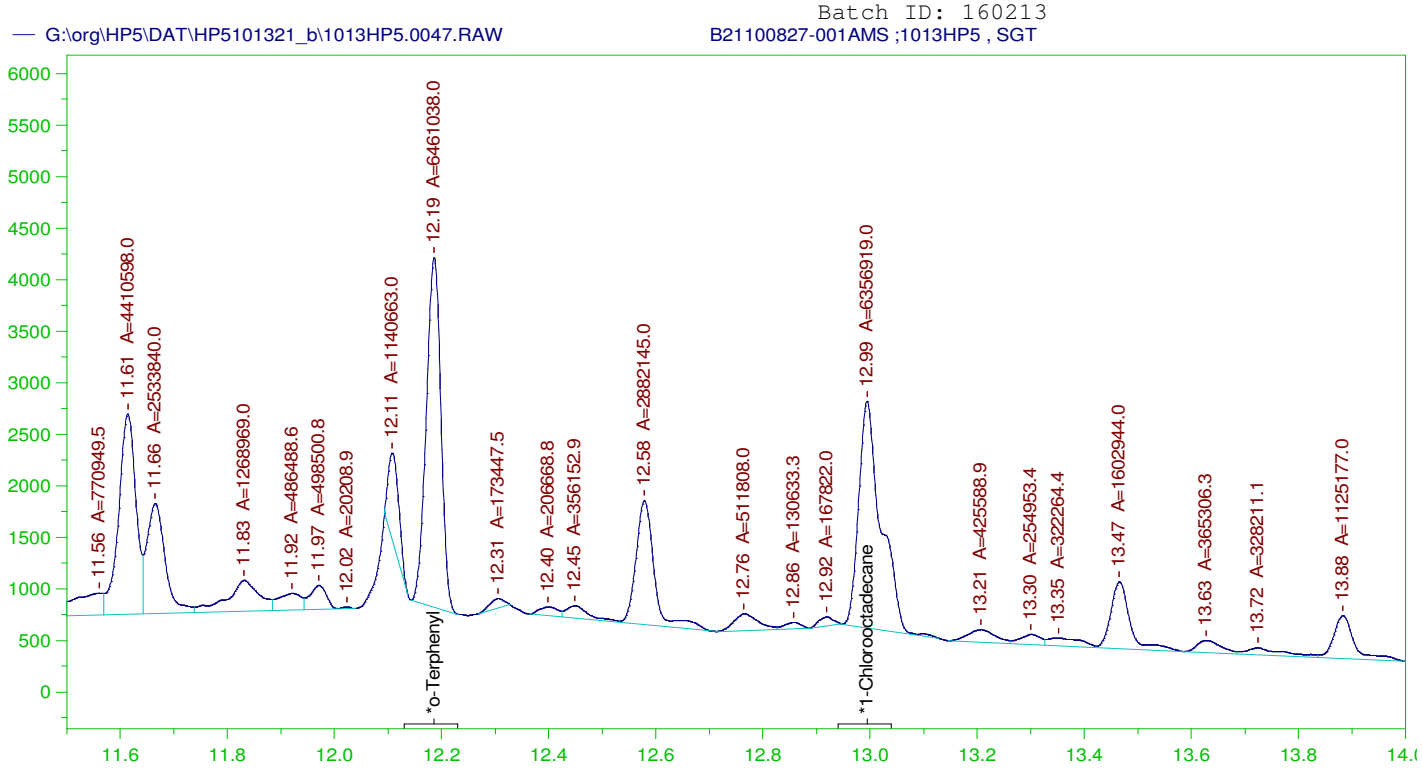
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMS ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0047.RAW
Date & Time Acquired: 10/14/2021 10:58:49 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.186 | .4 | .368 | 92.11 | - |
| *1-Chlorooctadecane | 12.994 | .4 | .363 | 90.63 | - |

DRO Area:1.891908E+08 DRO Amount: 12.84508
TEH Area:1.996046E+08 TEH Amount: 13.55212

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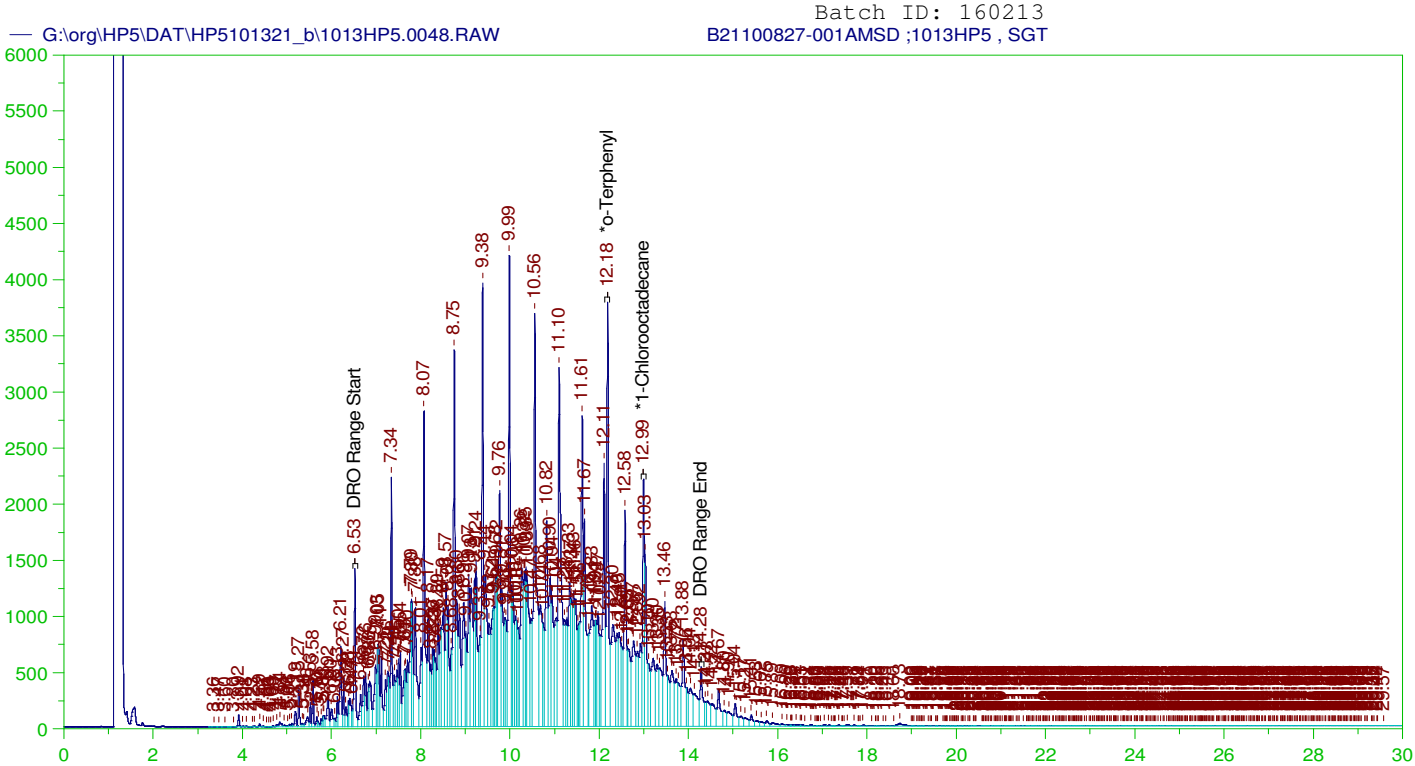
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

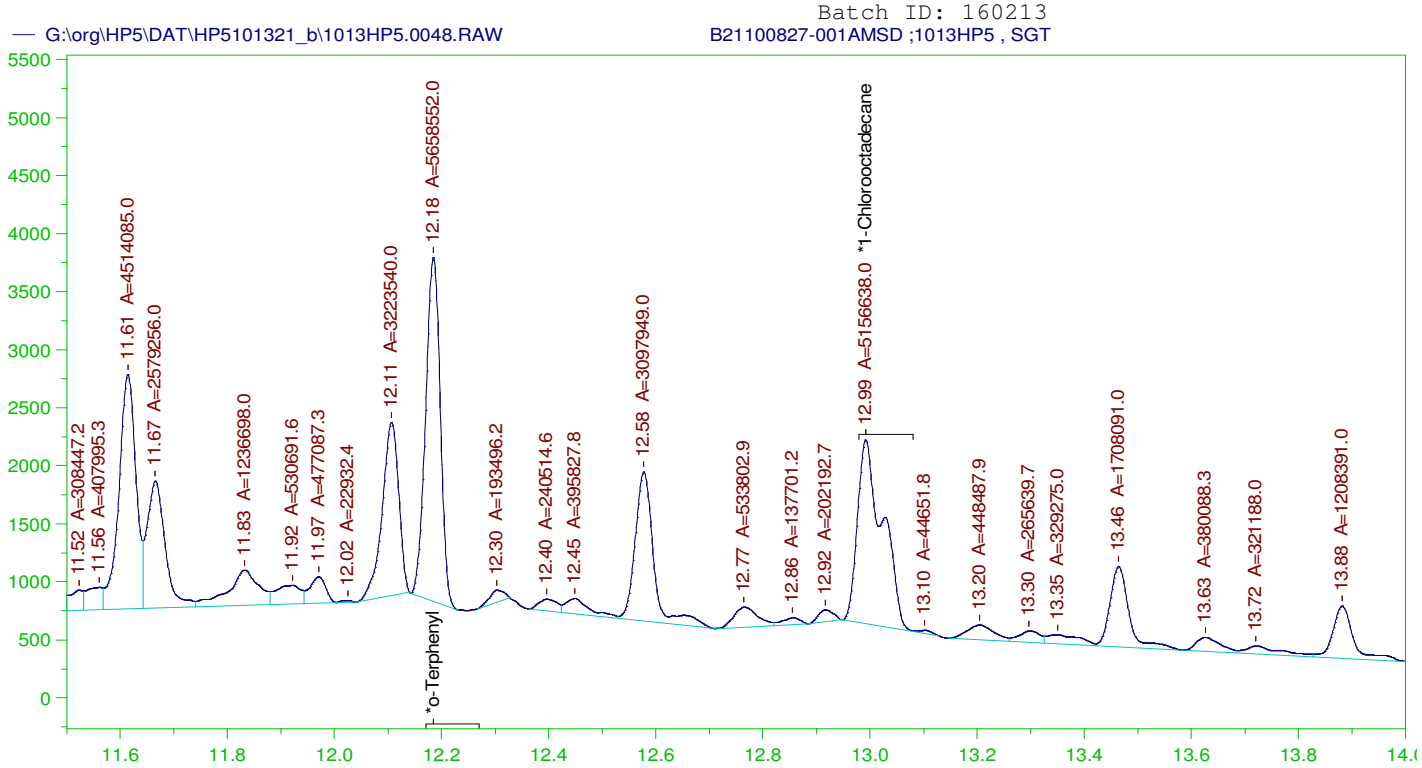
Sample Name: B21100827-001AMSD ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0048.RAW
Date & Time Acquired: 10/14/2021 11:41:43 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | .4 | .609 | 152.14 | - |
| *1-Chlorooctadecane | 12.992 | .4 | .348 | 86.93 | - |

DRO Area:3.915414E+08 DRO Amount: 26.58363
TEH Area:4.160698E+08 TEH Amount: 28.24898

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMSD ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0048.RAW
Date & Time Acquired: 10/14/2021 11:41:43 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | .4 | .323 | 80.67 | - |
| *1-Chlorooctadecane | 12.992 | .4 | .294 | 73.52 | - |

DRO Area:1.875254E+08 DRO Amount: 12.732
TEH Area:1.965738E+08 TEH Amount: 13.34634

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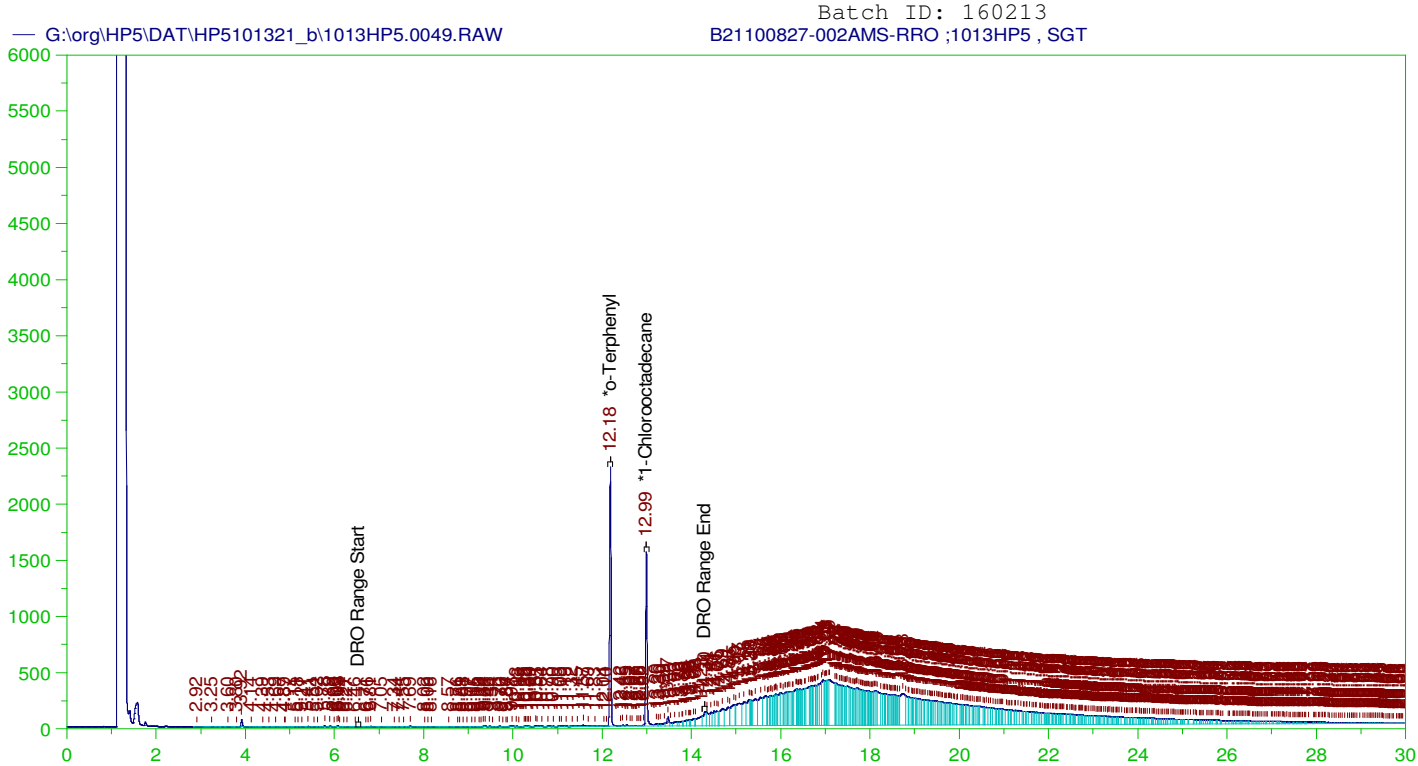
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0049.RAW
Date & Time Acquired: 10/15/2021 12:24:34 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .252 | 64.94 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .197 | 50.78 | - |

DRO Area:4442596 DRO Amount: 0.3022309
TEH (Oil Range) Area:1.284118E+08 TEH (Oil Range) Amount: 8.735885

AMN 10/21/2021

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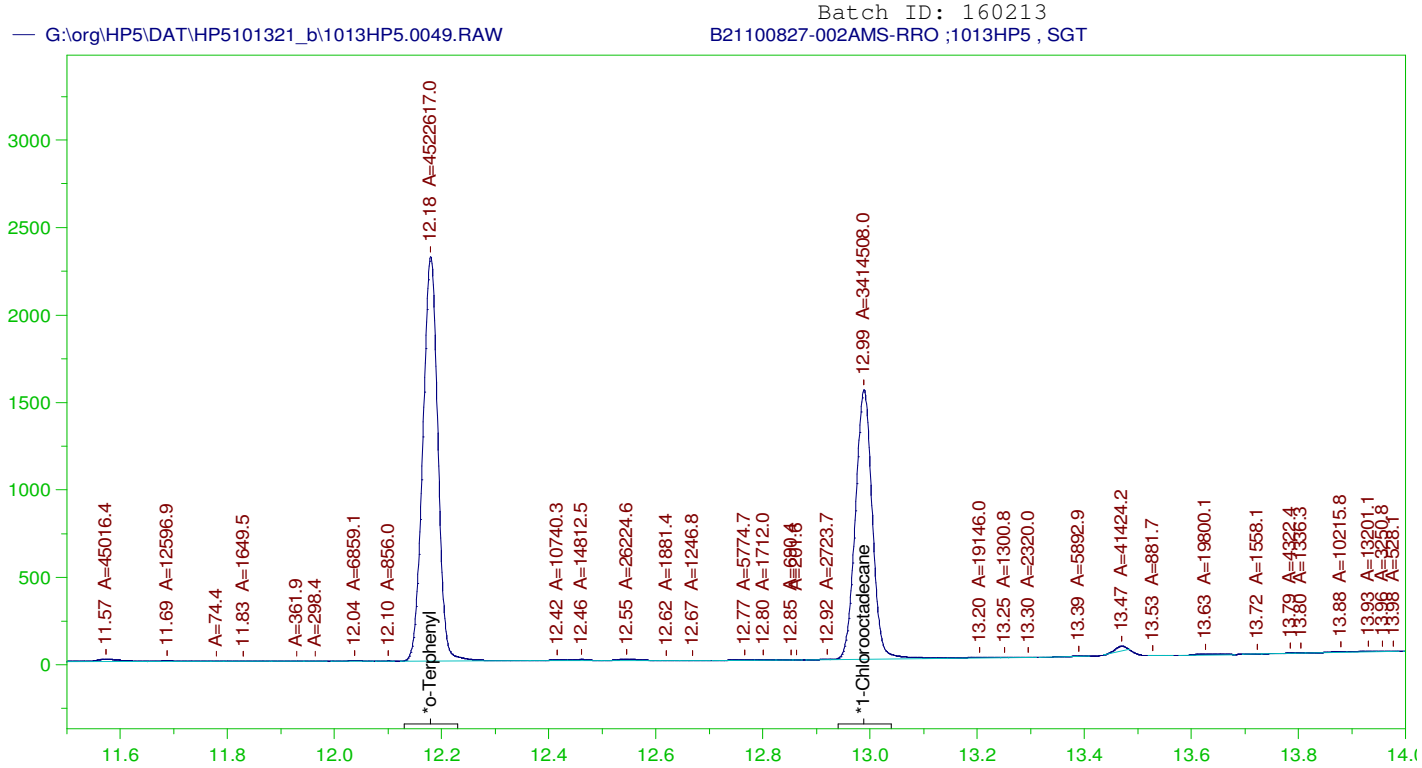
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0049.RAW
Date & Time Acquired: 10/15/2021 12:24:34 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .25 | 64.48 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .189 | 48.68 | - |

DRO Area:738142.7 DRO Amount: 5.021604E-02
TEH Area:2434181 TEH Amount: 0.1655979

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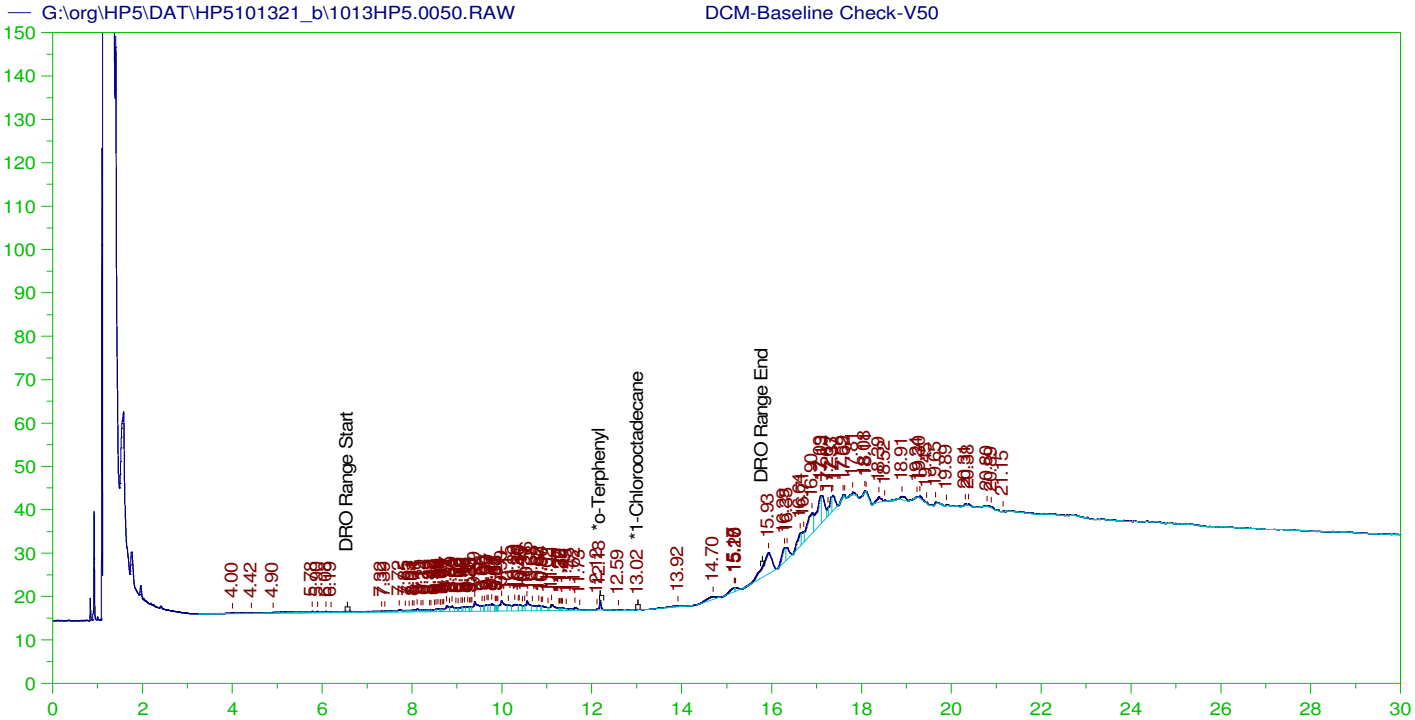



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

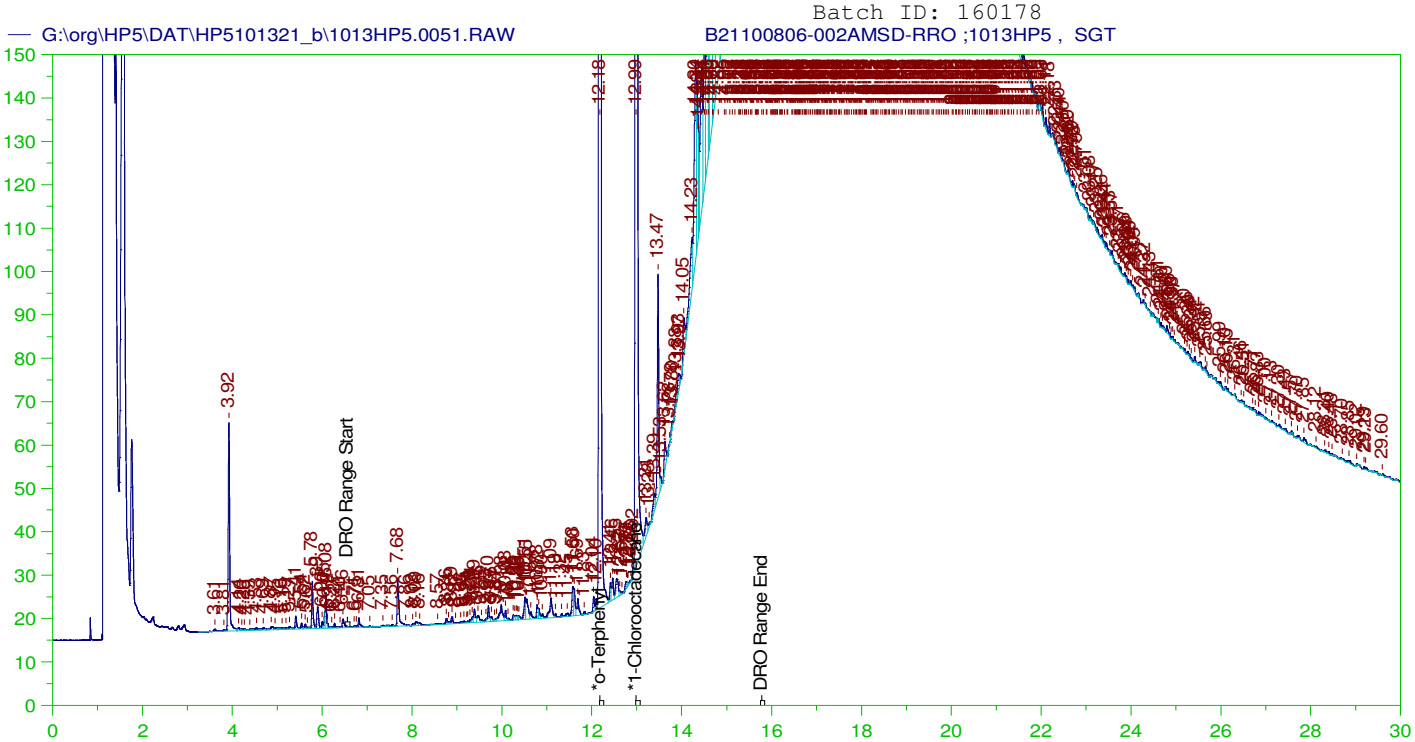
Sample Name: DCM-Baseline Check-V50
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0050.RAW
Date & Time Acquired: 10/15/2021 1:07:28 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.183 | 200. | .185 | .09 | - |
| *1-Chlorooctadecane | 13.024 | 200. | .015 | .01 | - |

DRO Area:265331.7 DRO Amount: 9.007322
TEH Area:652107.5 TEH Amount: 22.13736

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

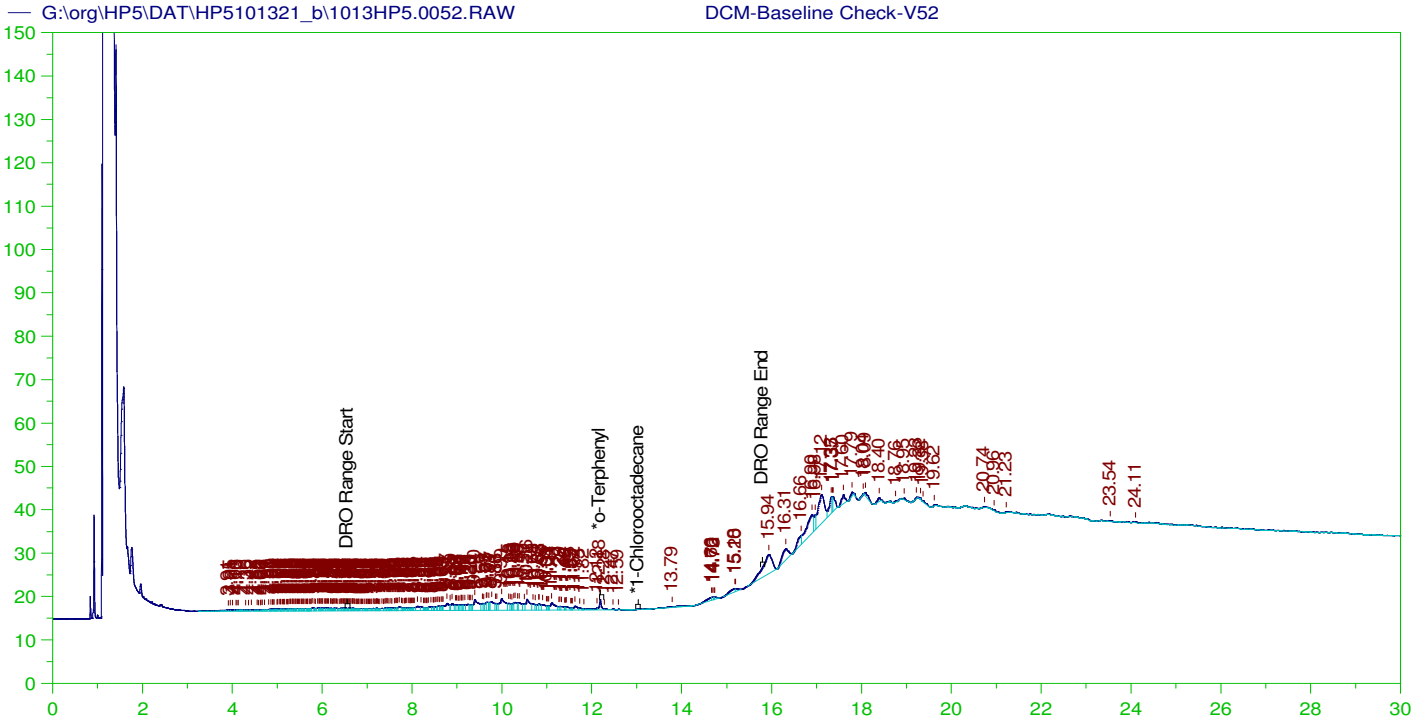
Sample Name: B21100806-002AMSD-RRO ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0051.RAW
Date & Time Acquired: 10/15/2021 1:50:20 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .392 | .217 | 55.33 | - |
| *1-Chlorooctadecane | 12.99 | .392 | .184 | 46.88 | - |

DRO Area:4879029 DRO Amount: 0.3247654
TEH Area:1.137819E+07 TEH Amount: 0.7573723

G:\org\HP5\dat\HP5101321_b\Review\051_B21100806-002AMSD-RRO_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V52
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0052.RAW
Date & Time Acquired: 10/15/2021 2:33:14 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

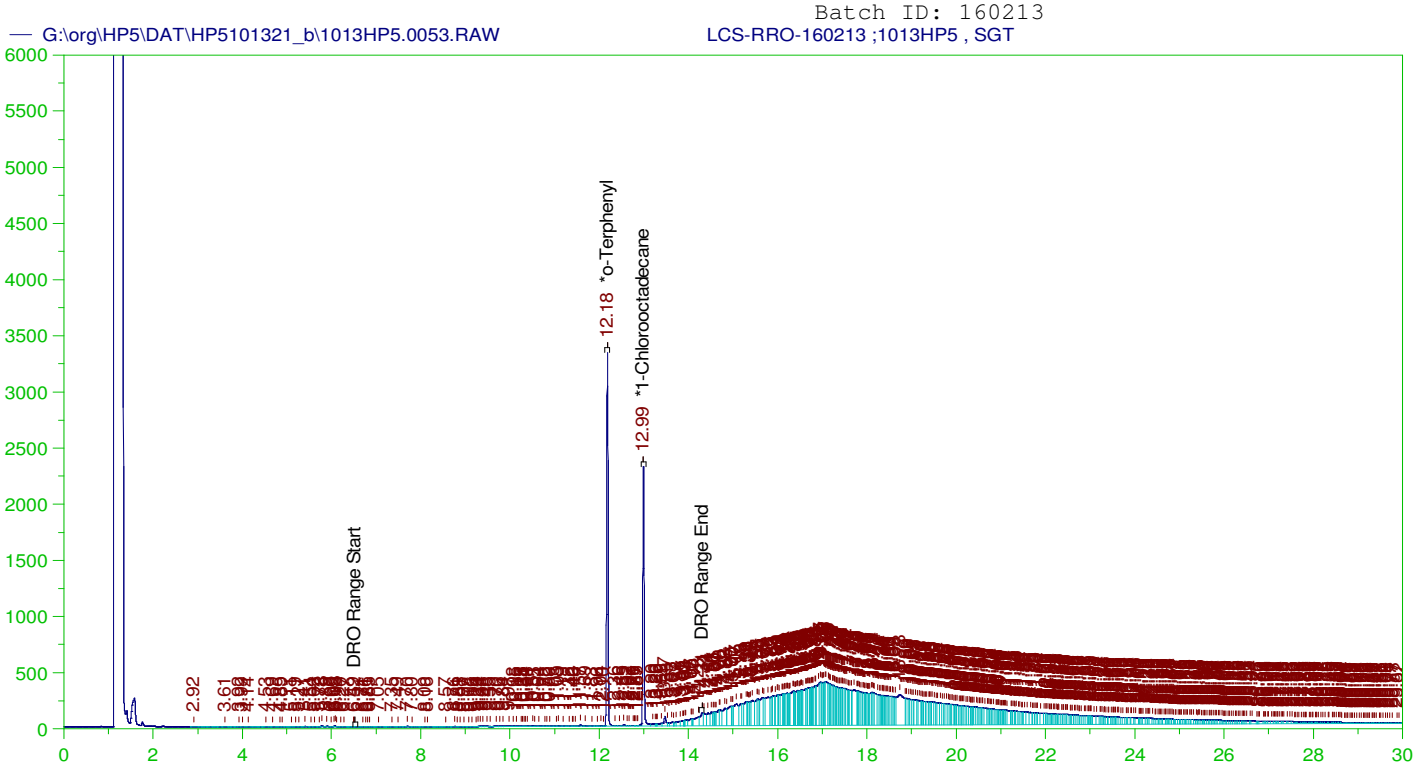
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | .243 | .12 | - |
| *1-Chlorooctadecane | 29.989 | 200. | . | . | - |

DRO Area:376194.8 DRO Amount: 12.77084
TEH Area:782327.4 TEH Amount: 26.55799

G:\org\HP5\dat\HP5101321_b\Review\052_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-RRO-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0053.RAW
Date & Time Acquired: 10/15/2021 3:16:03 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .185 | 92.41 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .149 | 74.54 | - |

DRO Area:3731566 DRO Amount: 0.1307376
TEH (Oil Range) Area:1.219831E+08 TEH (Oil Range) Amount: 4.273749

AMN 10/21/2021

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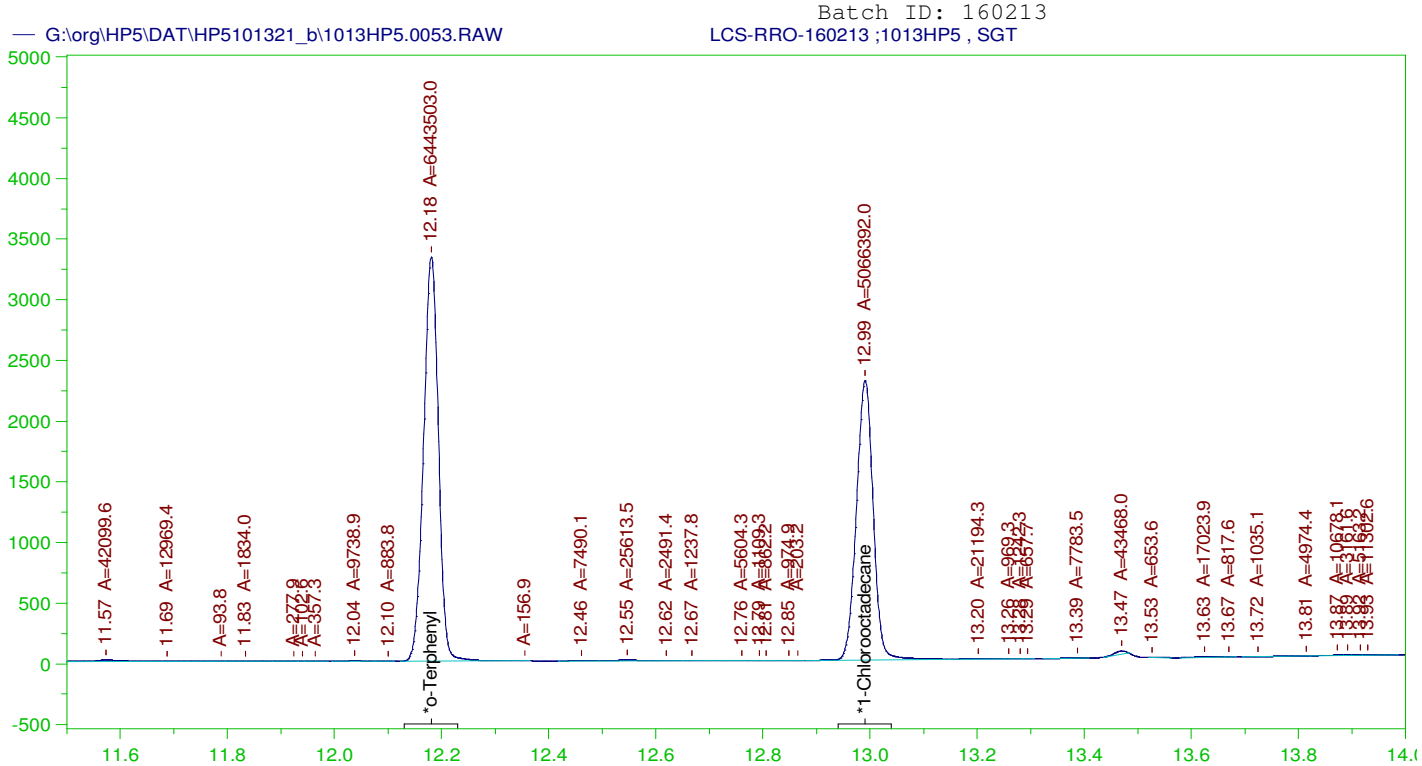
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

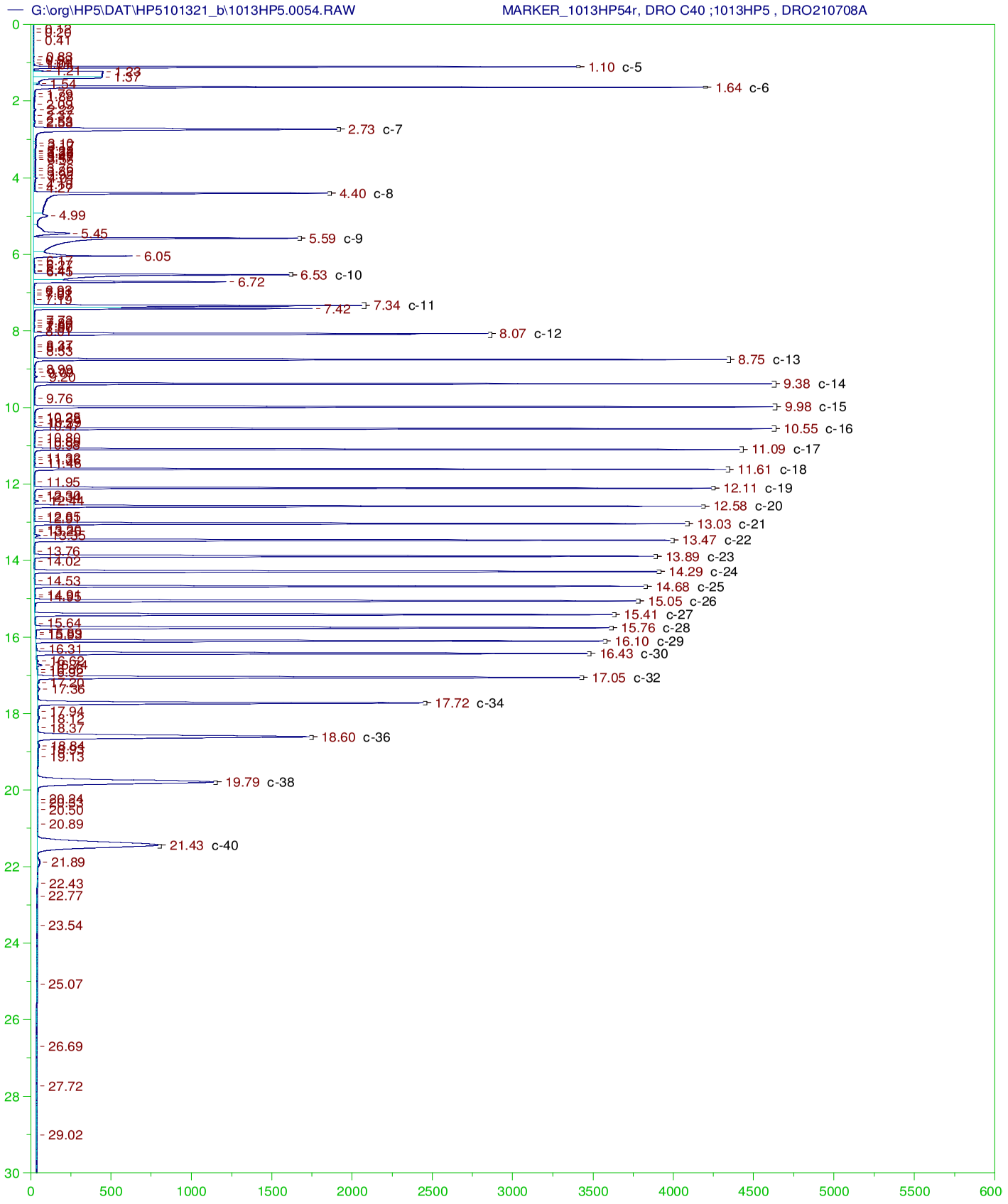
Sample Name: LCS-RRO-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0053.RAW
Date & Time Acquired: 10/15/2021 3:16:03 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

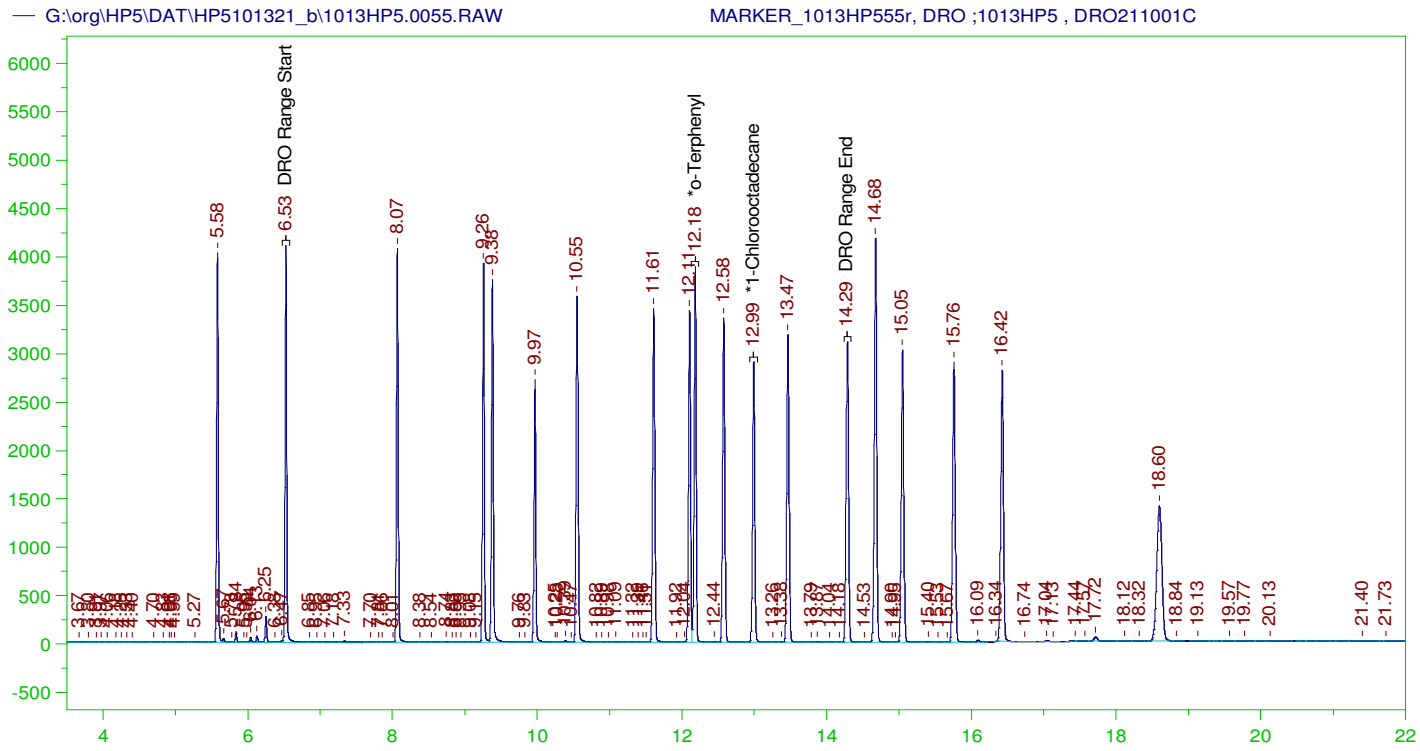
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .184 | 91.86 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .144 | 72.23 | - |

DRO Area:614931.8 DRO Amount: 2.154449E-02
TEH Area:2037532 TEH Amount: 7.138611E-02

G:\org\HP5\dat\HP5101321_b\Review\053_LCS-RRO-160213_DS_OIL-AJA-L#.xls




G:\org\HP5\dat\HP5101321_b\Review\054_MARKER_1013HP54r_CSC211013.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

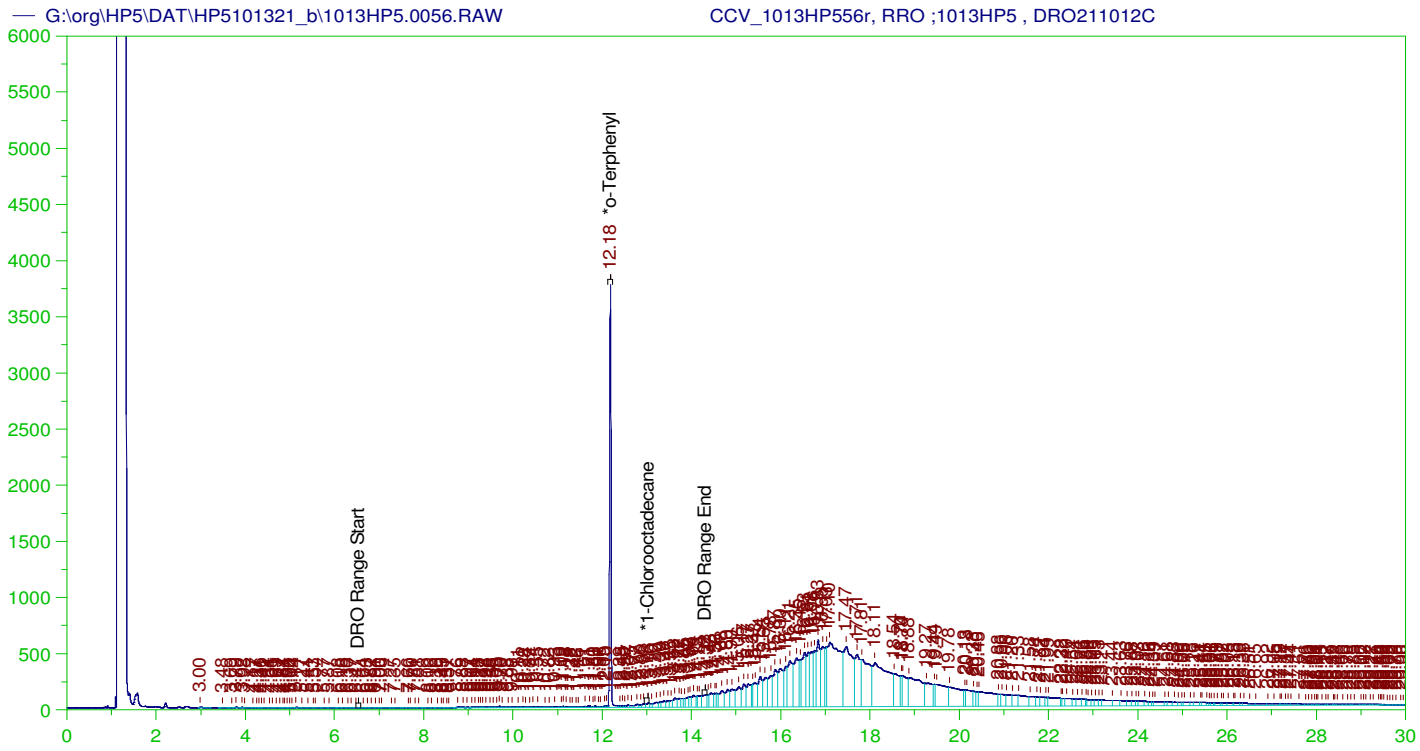
Sample Name: MARKER_1013HP555r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0055.RAW
Date & Time Acquired: 10/15/2021 4:41:38 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.183 | .2 | .217 | 108.73 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .176 | 88.1 | - |

DRO Area:7.482385E+07 DRO Amount: 2.540076
TEH Area:1.215464E+08 TEH Amount: 4.126184

G:\org\HP5\dat\HP5101321_b\Review\055_MARKER_1013HP555r_DC_8015-24-HSa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP556r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW
Date & Time Acquired: 10/15/2021 5:24:30 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 211.092 | 105.55 | - |
| *1-Chlorooctadecane | 13.027 | 200. | 4.709 | 2.35 | - |

DRO Area:6572929 DRO Amount: 230.2864
TEH (Oil Range) Area:1.342254E+08 TEH (Oil Range) Amount: 4702.664

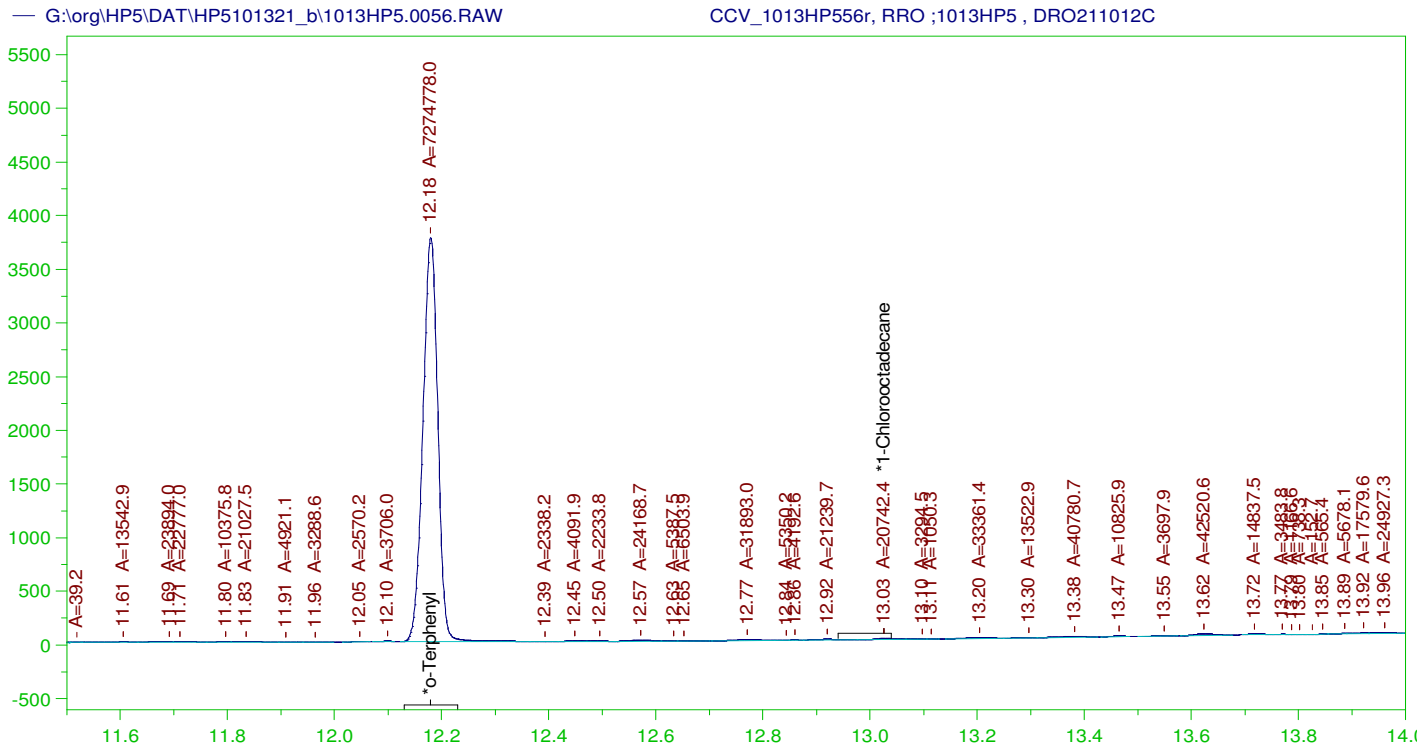
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4702.66 | 94.05 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 211.092 | 105.55 | 85-115 |
| *1-Chlorooctadecane | 13.027 | 200. | 4.709 | 2.35 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\056_CCV_1013HP556r_DC_OIL-AJA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP556r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW
Date & Time Acquired: 10/15/2021 5:24:30 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

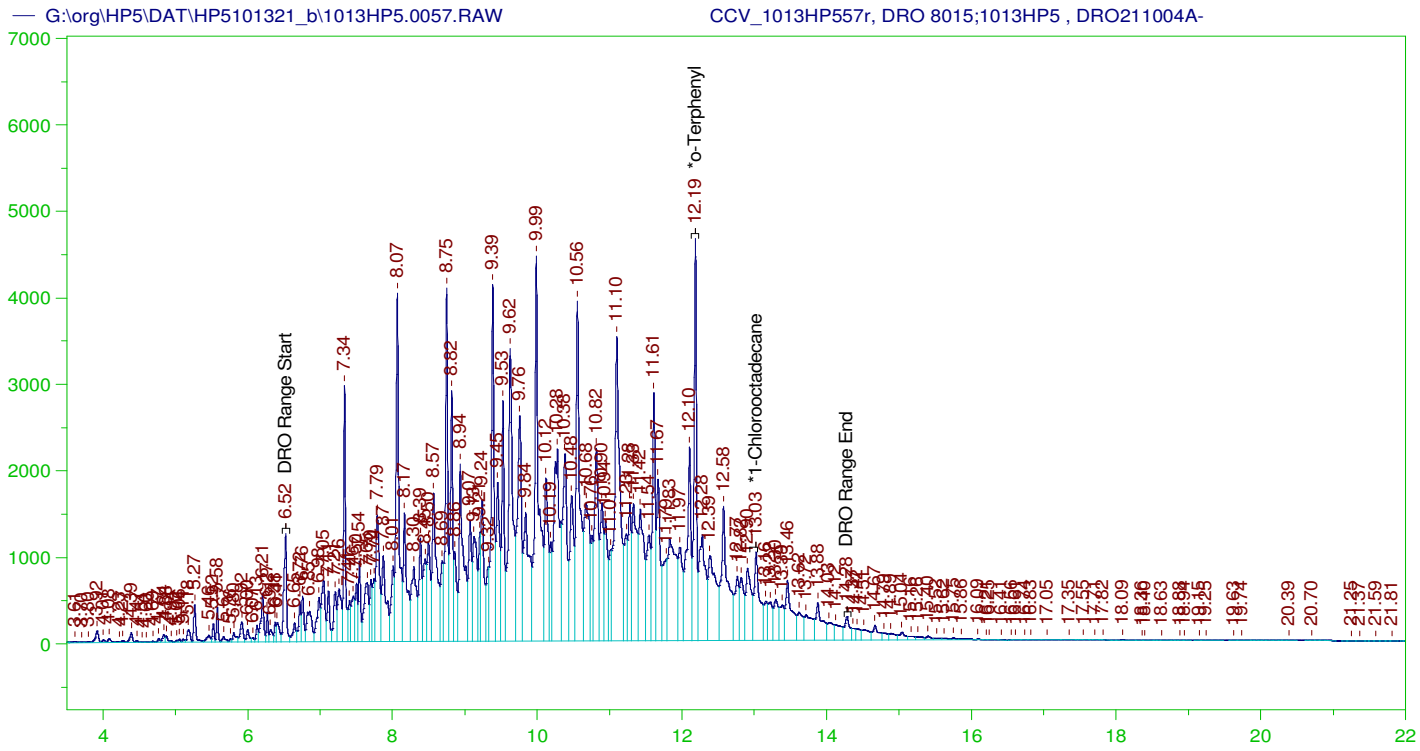
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 207.429 | 103.71 | - |
| *1-Chlorooctadecane | 13.027 | 200. | .591 | .3 | - |

DRO Area:820545.8 DRO Amount: 28.7483
TEH Area:2102297 TEH Amount: 73.6552

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 73.66 | 1.47 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 207.429 | 103.71 | 85-115 |
| *1-Chlorooctadecane | 13.027 | 200. | .591 | .3 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW
Date & Time Acquired: 10/15/2021 6:07:16 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 330.171 | 165.09 | - |
| *1-Chlorooctadecane | 13.025 | 200. | 151.391 | 75.7 | - |

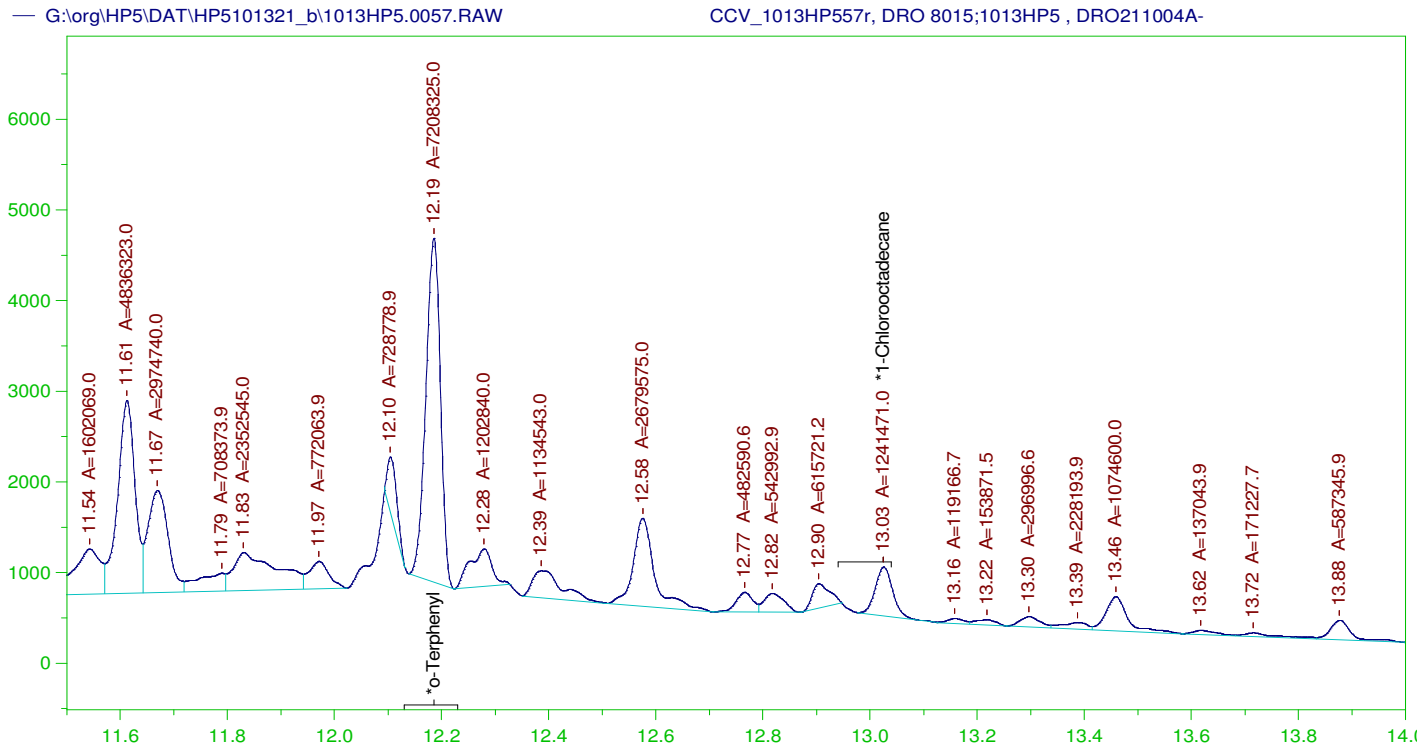
DRO Area:4.380289E+08 DRO Amount: 14869.94
TEH Area:4.53984E+08 TEH Amount: 15411.58

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15411.58 | 102.74 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 330.171 | 165.09 | 85-115 |
| *1-Chlorooctadecane | 13.025 | 200. | 151.391 | 75.7 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\057_CCV_1013HP557r_DC_8015-24-HSa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW
Date & Time Acquired: 10/15/2021 6:07:16 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 205.534 | 102.77 | - |
| *1-Chlorooctadecane | 13.025 | 200. | 35.399 | 17.7 | - |

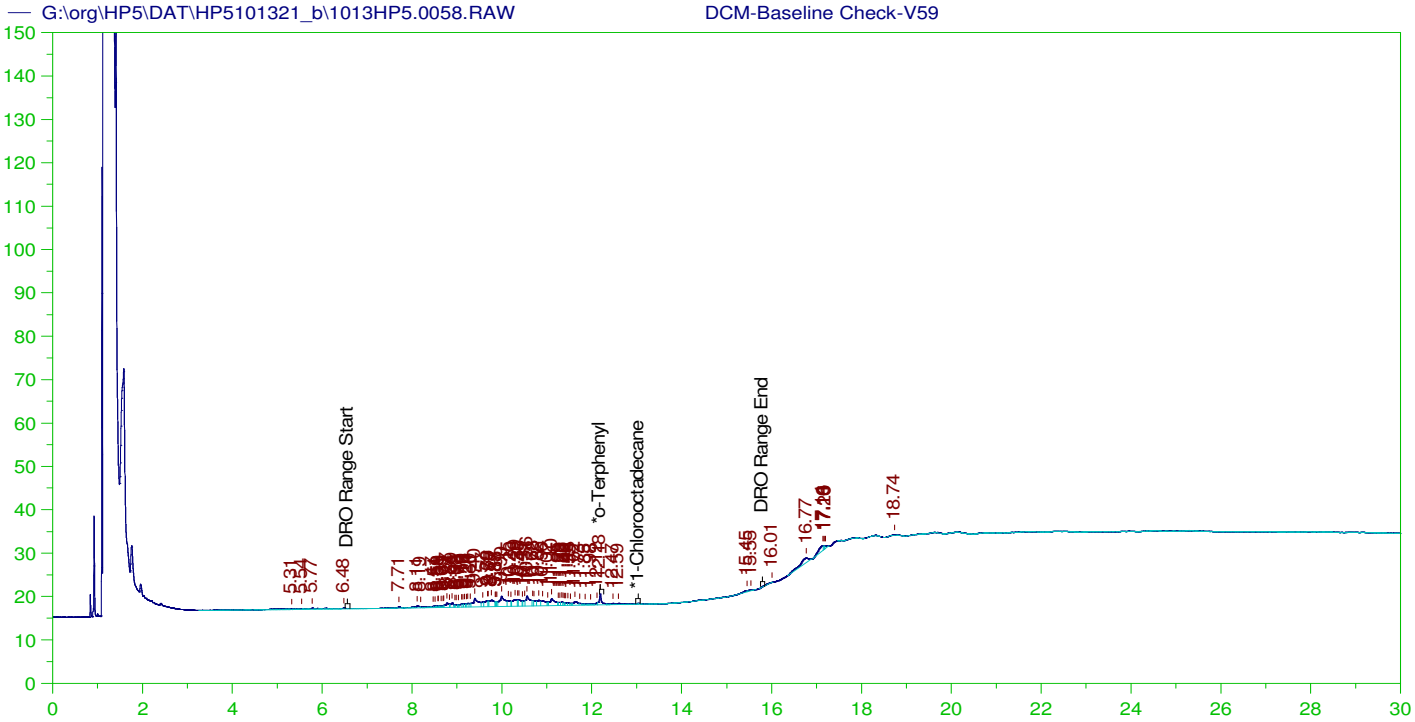
DRO Area:2.444846E+08 DRO Amount: 8299.618
TEH Area:2.54436E+08 TEH Amount: 8637.443

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8637.44 | 57.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 205.534 | 102.77 | 85-115 |
| *1-Chlorooctadecane | 13.025 | 200. | 35.399 | 17.7 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\057_CCV_1013HP557r_DS_8015-area-HSA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V59
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0058.RAW
Date & Time Acquired: 10/15/2021 6:50:06 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

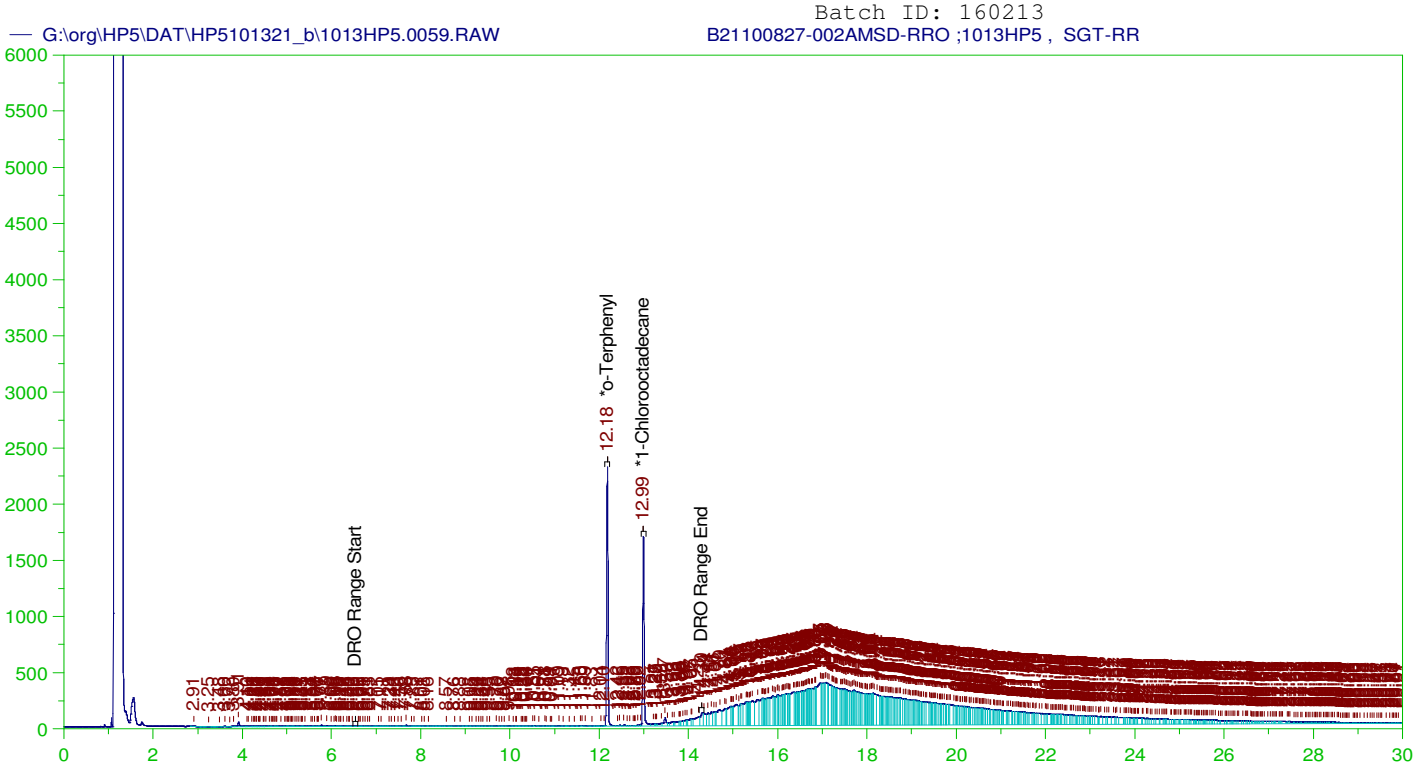
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.183 | 200. | .277 | .14 | - |
| *1-Chlorooctadecane | 29.994 | 200. | . | . | - |

DRO Area:224378.9 DRO Amount: 7.61708
TEH Area:290379.5 TEH Amount: 9.857631

G:\org\HP5\dat\HP5101321_b\Review\058_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMSD-RRO ;1013HP5 , SGT-RR
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0059.RAW
Date & Time Acquired: 10/15/2021 7:39:38 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .25 | 64.35 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .216 | 55.58 | - |

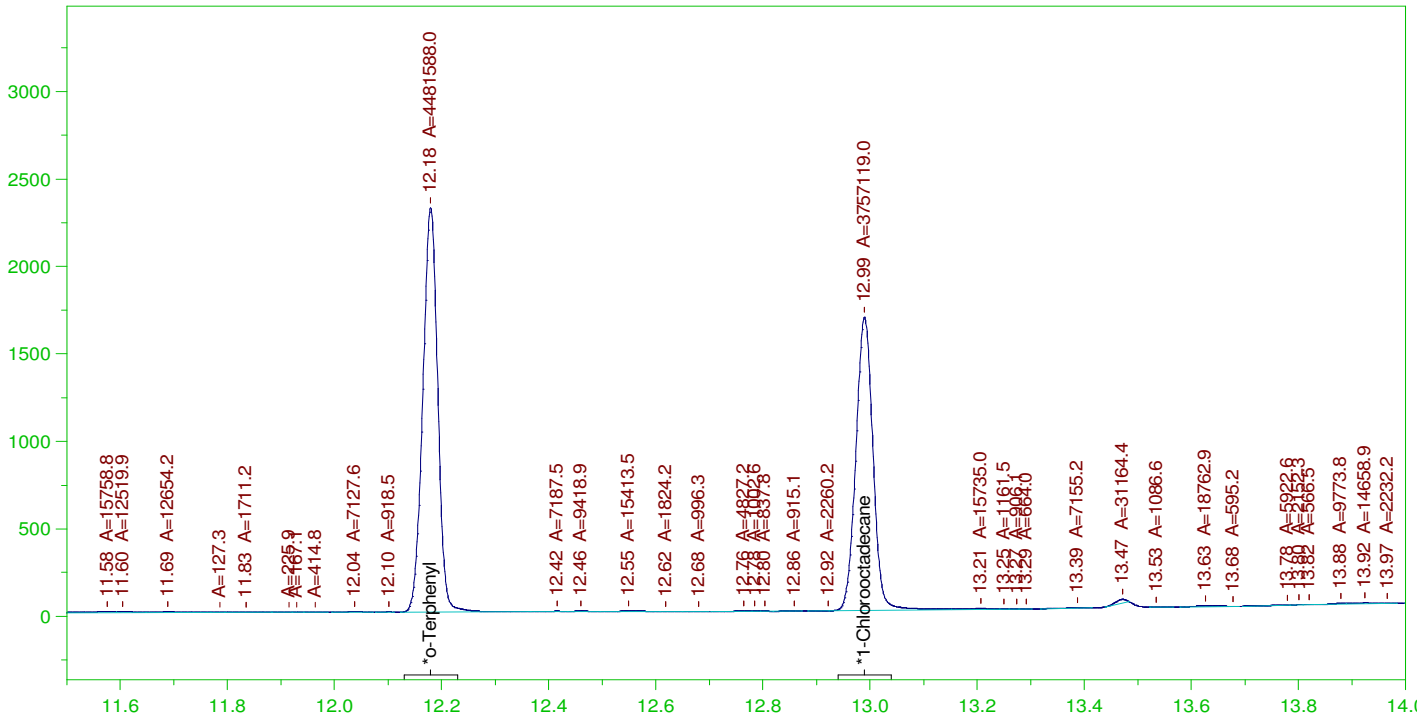
DRO Area:3599159 DRO Amount: 0.2448517
TEH (Oil Range) Area:1.184108E+08 TEH (Oil Range) Amount: 8.055515

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\059_B21100827-002AMSD-RRO_D3_OIL-AJA-L%.xls

Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0059.RAW B21100827-002AMSD-RRO ;1013HP5 , SGT-RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

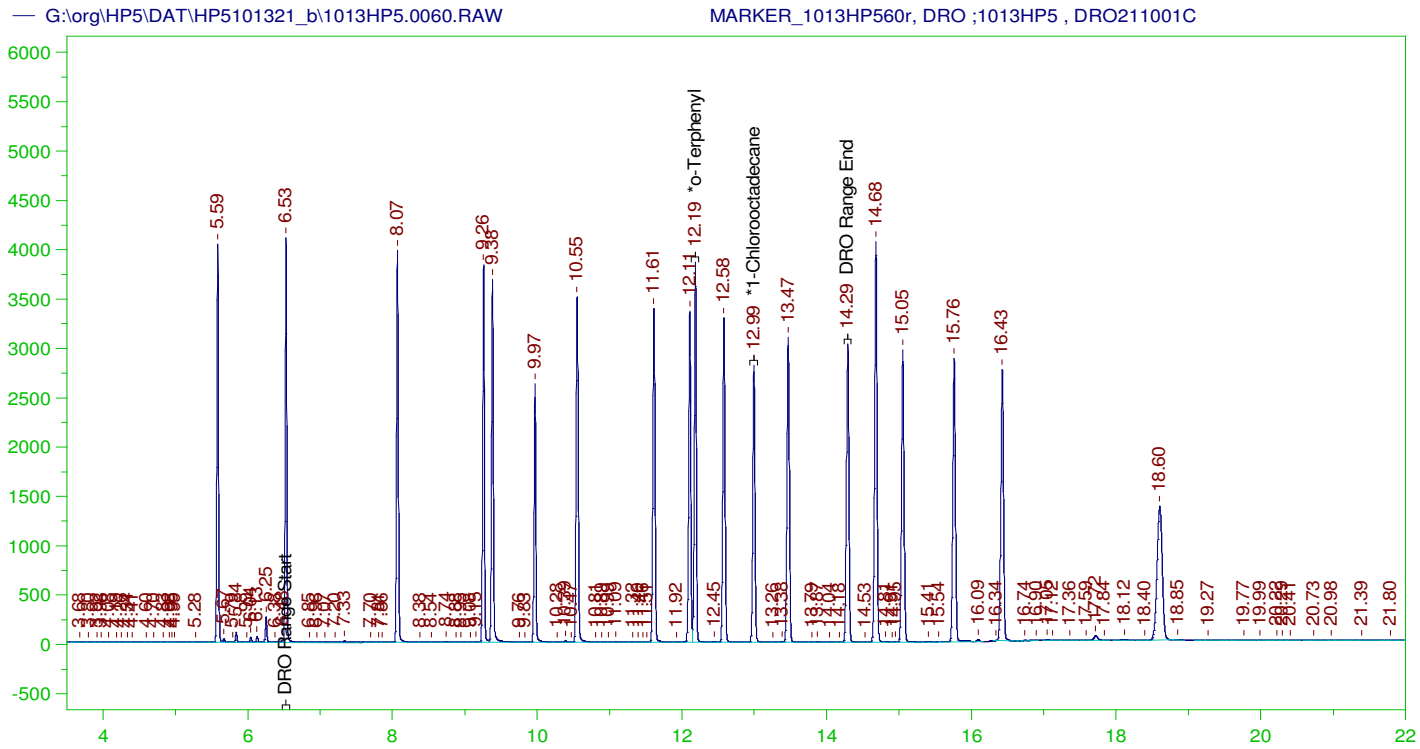
Sample Name: B21100827-002AMSD-RRO ;1013HP5 , SGT-RR
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0059.RAW
Date & Time Acquired: 10/15/2021 7:39:38 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .248 | 63.89 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .208 | 53.56 | - |

DRO Area:603208.6 DRO Amount: 4.103643E-02
TEH Area:2187615 TEH Amount: 0.148824

G:\org\HP5\dat\HP5101321_b\Review\059_B21100827-002AMSD-RRO_DS_OIL-AJA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

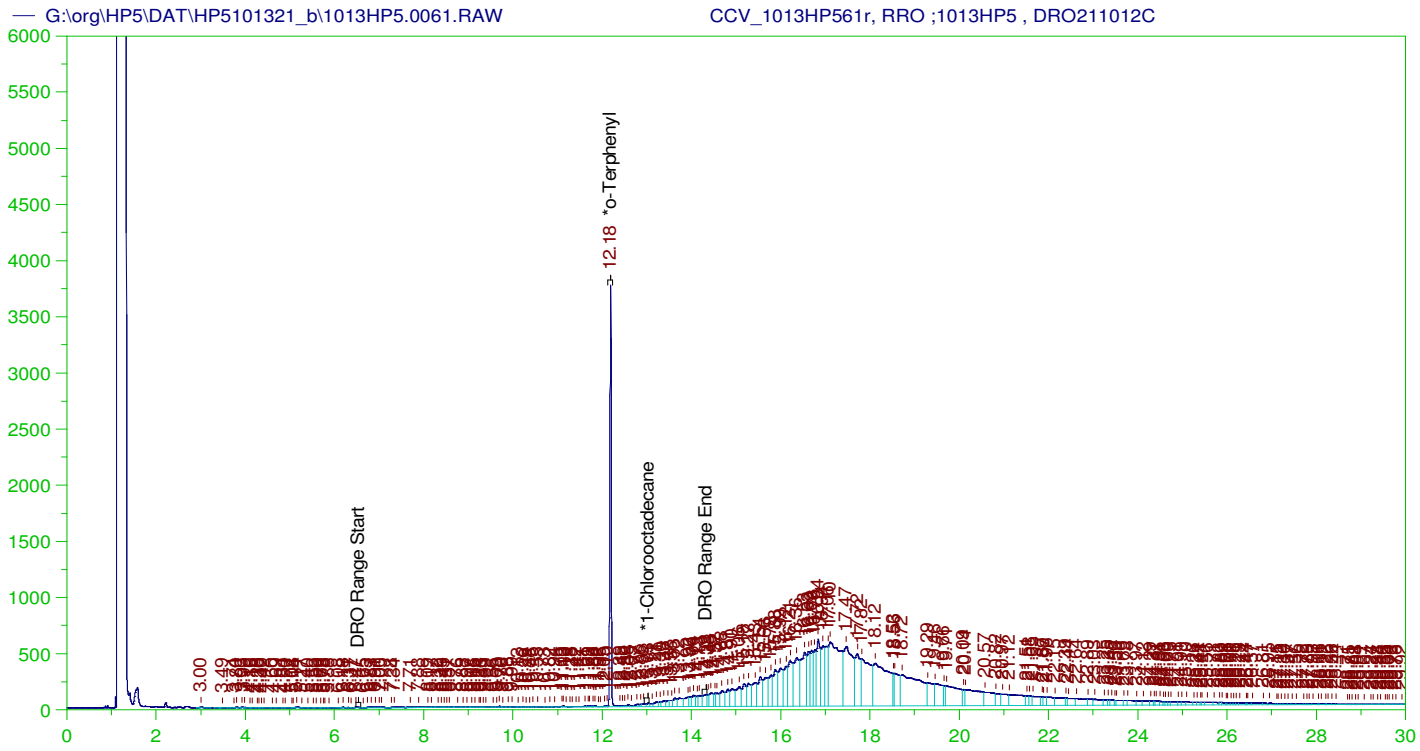
Sample Name: MARKER_1013HP560r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0060.RAW
Date & Time Acquired: 10/15/2021 8:22:35 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | .2 | .213 | 106.66 | - |
| *1-Chlorooctadecane | 12.994 | .2 | .173 | 86.32 | - |

DRO Area:7.335226E+07 DRO Amount: 2.490119
TEH Area:1.193338E+08 TEH Amount: 4.051072

G:\org\HP5\dat\HP5101321_b\Review\060_MARKER_1013HP560r_DC_8015-24-HSa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP561r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW
Date & Time Acquired: 10/15/2021 9:05:31 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 211.955 | 105.98 | - |
| *1-Chlorooctadecane | 13.03 | 200. | 4.09 | 2.04 | - |

DRO Area:6599021 DRO Amount: 231.2005
TEH (Oil Range) Area:1.351175E+08 TEH (Oil Range) Amount: 4733.919

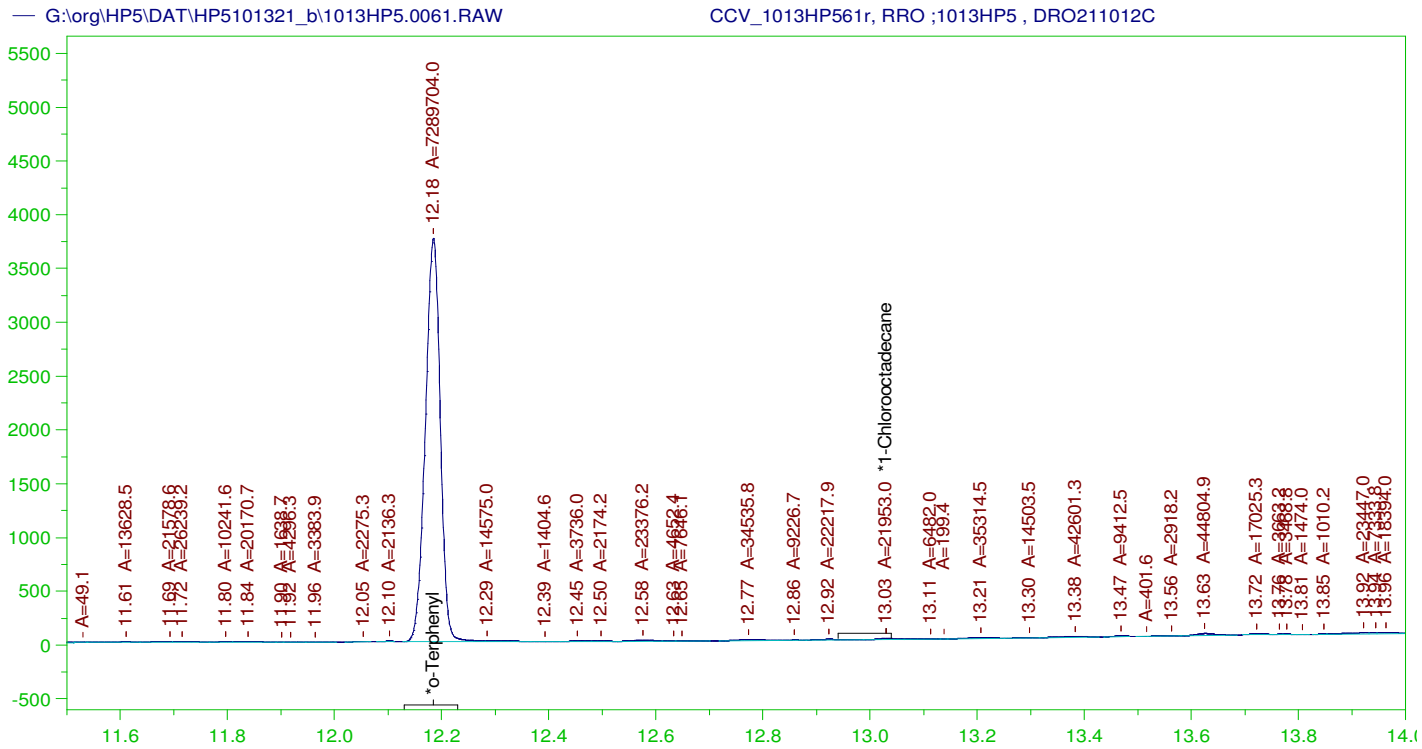
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4733.92 | 94.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 211.955 | 105.98 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | 4.09 | 2.04 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\061_CCV_1013HP561r_DC_OIL-AJA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP561r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW
Date & Time Acquired: 10/15/2021 9:05:31 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 207.854 | 103.93 | - |
| *1-Chlorooctadecane | 13.03 | 200. | .626 | .31 | - |

DRO Area:858181.1 DRO Amount: 30.06687
TEH Area:2203351 TEH Amount: 77.19567

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 77.2 | 1.54 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 207.854 | 103.93 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | .626 | .31 | 85-115 |

Write Sequence

Insert Entries|Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101321_b\1013HP5.01r | MARKER_1013HP01r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.02r | MARKER_1013HP502r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.03r | CCV_1013HP503r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.04r | CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.06r | B21100828-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-101306-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-101306-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Set Baseline now at 22.46.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.07r | B21100828-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.08r | B21100834-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1010 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.09r | DCM-Baseline Check-V09 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.10r | B21100834-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.11r | DCM-Baseline Check-V11 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.12r | B21100834-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.15r | B21100827-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.16r | DCM-Baseline Check-V16 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.17r | MARKER_1013HP17r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.18r | MARKER_1013HP518r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.19r | CCV_1013HP519r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.20r | CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.21r | DCM-Baseline Check-V21 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.22r | LCS-RRO-160213 ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.24r | B21100827-002AMS-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.25r | DCM-Baseline Check-V25 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.26r | B21100827-002AMSD-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.28r | B21100827-001AMS ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101328-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.10.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.30r | B21100827-001AMSD ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101330-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.10.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.32r | MARKER_1013HP32r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.33r | MARKER_1013HP533r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.34r | CCV_1013HP534r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101321_b\1013HP5.35r | CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.36r | DCM-Baseline Check-V36 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.37r | DCM-Baseline Check-V37 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.38r | MARKER_1013HP38r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.39r | MARKER_1013HP539r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.40r | CCV_1013HP540r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.41r | CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.42r | DCM-Baseline Check-V42 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.43r | LCS-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.44r | MB-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.45r | B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.46r | B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1045 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.47r | B21100827-001AMS ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.48r | B21100827-001AMSD ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.49r | B21100827-002AMS-RRO ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.50r | DCM-Baseline Check-V50 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.51r | B21100827-002AMSD-RRO ;1013HP5 , SGT-NEEDS RR Instrument misinjection | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 515 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.52r | DCM-Baseline Check-V52 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.53r | LCS-RRO-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.54r | MARKER_1013HP54r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.55r | MARKER_1013HP555r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.56r | CCV_1013HP556r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.57r | CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.58r | DCM-Baseline Check-V58 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.59r | B21100827-002AMSD-RRO ;1013HP5 , SGT-RR | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.60r | MARKER_1013HP560r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.61r | CCV_1013HP561r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.21 09:01:45 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*07-May-21*

**Run ID** GCFID-HP5-B_210108B

**Run Start Date:** 1/8/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** NEW ICAL
SW8015C_DRO210108HA.CAL

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CALS | 12/31/2021 |
| DRO201210A | #2 Diesel in Acetone 150,000 ug/mL | | | | | SECOND S | 6/10/2021 |
| DRO210105B | EPH (4) SURR-1000 ug/mL ea. in Hexane | | | | | SURRS | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154799 | CCV_0108HP51 | HC-8015-DRO- | CAL1 | | 1/8/2021 2:21:25 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1350772 | | 0.15 | 0 | 0 | 0.0499 | 0.3 | 50 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154800 | CCV_0108HP51 | HC-8015-DRO- | CAL2 | | 1/8/2021 3:03:30 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.865478 | | 3.75 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154801 | CCV_0108HP51 | HC-8015-DRO- | CAL3 | | 1/8/2021 3:45:32 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.3786 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154802 | CCV_0108HP51 | HC-8015-DRO- | CAL4 | | 1/8/2021 4:27:38 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 39.10215 | | 37.5 | 0 | 0 | 0.0499 | 0.3 | 50 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154803 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 5:09:49 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 50.03634 | | 50 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154804 | CCV_0108HP50 | HC-8015-DRO- | CAL1 | | 1/8/2021 5:52:15 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00201784 | | 0.002 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154805 | CCV_0108HP50 | HC-8015-DRO- | CAL2 | | 1/8/2021 6:34:45 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04980491 | | 0.05 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154806 | CCV_0108HP50 | HC-8015-DRO- | CAL3 | | 1/8/2021 7:17:18 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2027571 | | 0.2 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154807 | CCV_0108HP50 | HC-8015-DRO- | CAL4 | | 1/8/2021 7:59:52 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.4989882 | | 0.5 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154808 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 8:42:33 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.9852039 | | 1 | 0 | 0 | 0.000327 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154809 | CCV_0108HP51 | HC-8015-DRO- | ICV | | 1/8/2021 9:25:08 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 14.94195 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Version: 6

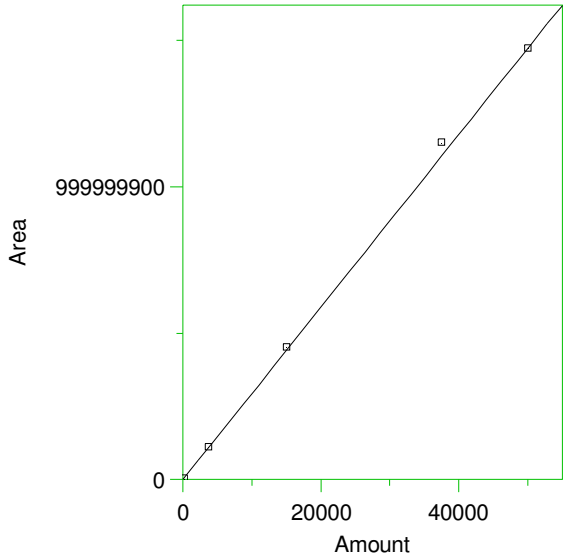
Creator: AMN 1/11/2021
Description: DRO-8015C. New ICal Per 0108HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.82 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

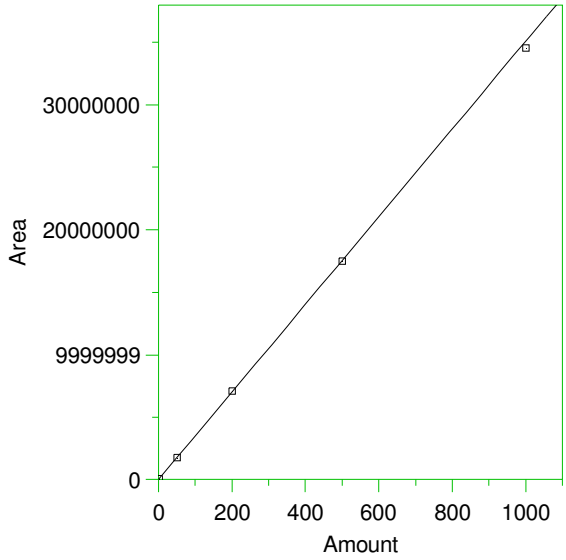
Y = 29457.33 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9985872 |
| Average error: | 3.979% |
| Average CF: | 29457.33 |
| RSD: | 5.768% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3979014 | 26526.76 | -9.949 | Manual | 1/11/2021 9:46:00 AM |
| 2 | 3750 | 1.138667E+08 | 30364.46 | 3.079 | Manual | 1/11/2021 9:46:09 AM |
| 3 | 15000 | 4.530125E+08 | 30200.83 | 2.524 | Manual | 1/11/2021 9:46:18 AM |
| 4 | 37500 | 1.151845E+09 | 30715.87 | 4.272 | Manual | 1/11/2021 9:46:27 AM |
| 5 | 50000 | 1.473937E+09 | 29478.74 | 0.073 | Manual | 1/11/2021 9:46:39 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.57 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

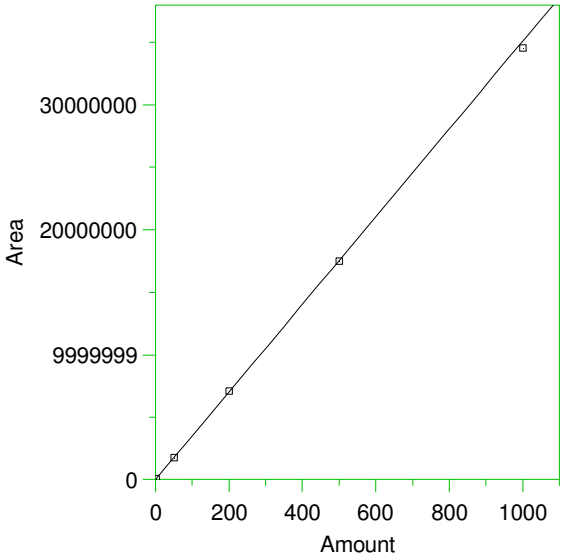
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.36 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

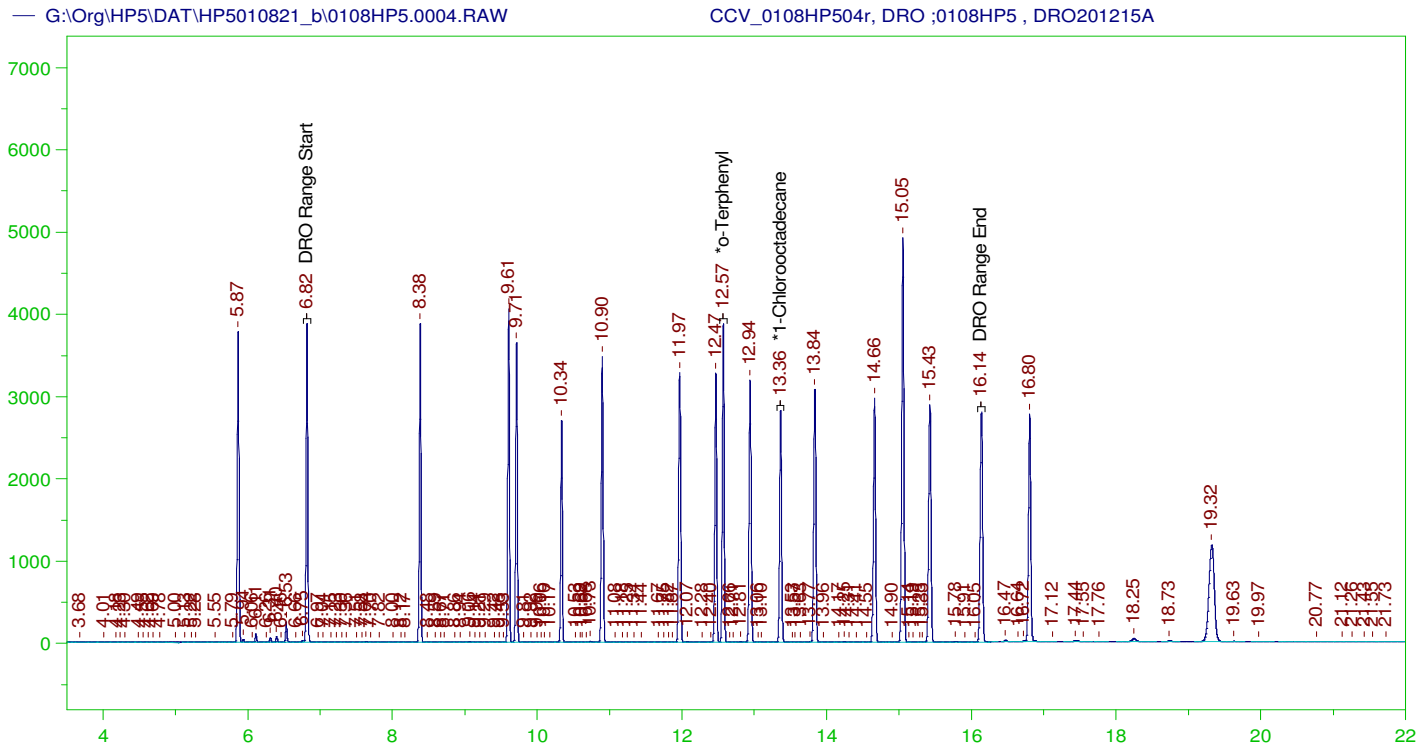
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP504r, DRO ;0108HP5 , DRO201215A
Raw File: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW
Date & Time Acquired: 1/8/2021 12:47:29 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | - |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | - |

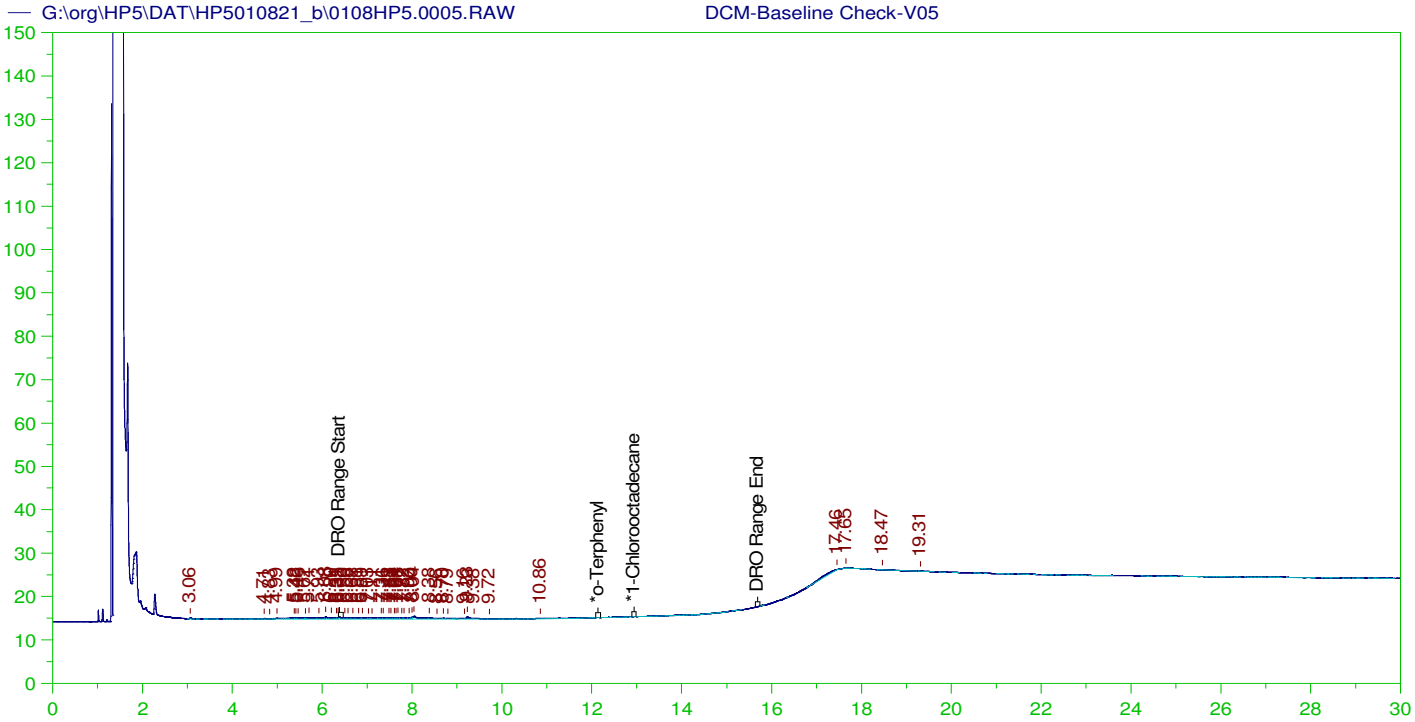
DRO Area:8.880706E+07 DRO Amount: 3014.77
TEH Area:1.082932E+08 TEH Amount: 3676.273

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3676.27 | 24.51 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | 85-115 |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\004_CCV_0108HP504r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

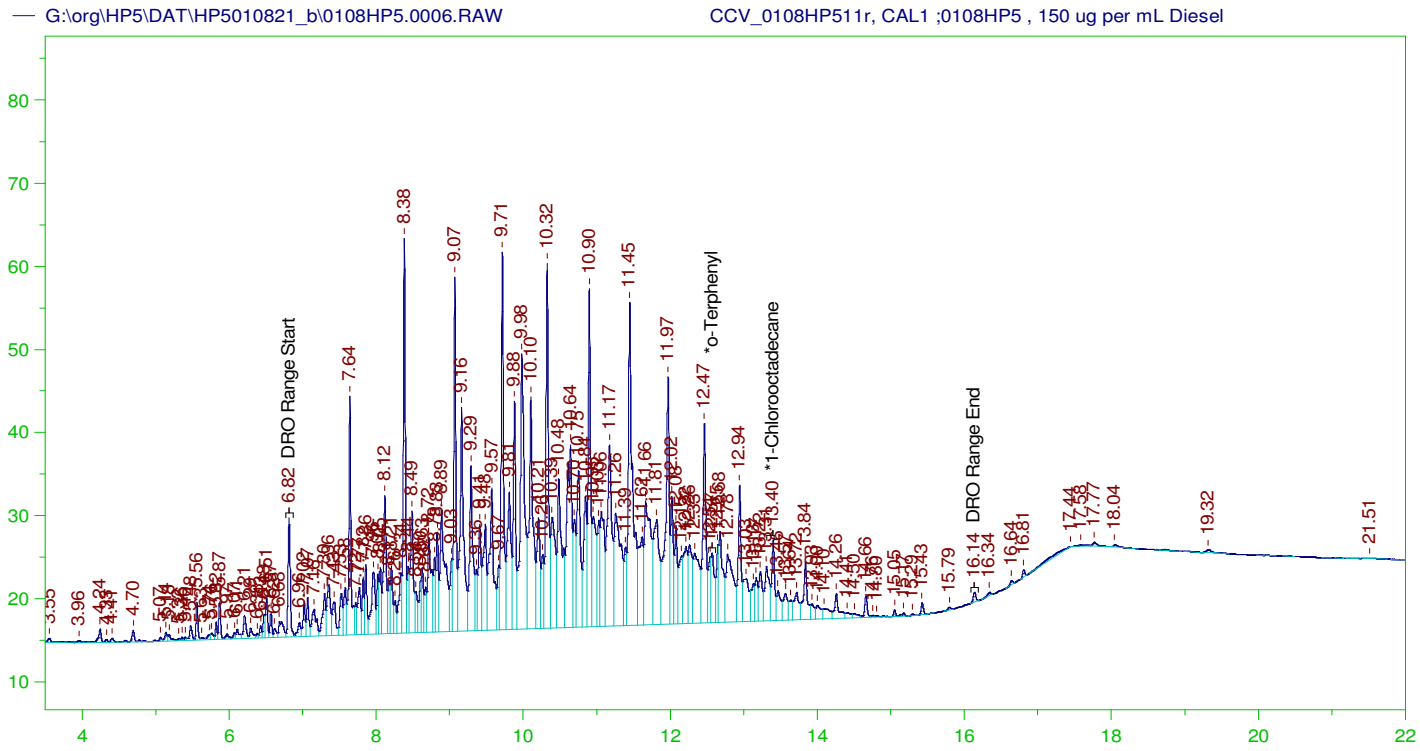
Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0005.RAW
Date & Time Acquired: 1/8/2021 1:29:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-GX-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO200123GX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28963.21
Rt range for Diesel Range Organics: 6.36 to 15.74

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.787 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.787 | 200. | . | . | - |

DRO Area:48911.73 DRO Amount: 1.688754
TEH Area:90991.55 TEH Amount: 3.141625

G:\org\HP5\dat\HP5010821_b\Review\005_DCM-Baseline Chec_DR_8015-GX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW
Date & Time Acquired: 1/8/2021 2:21:25 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | - |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | - |

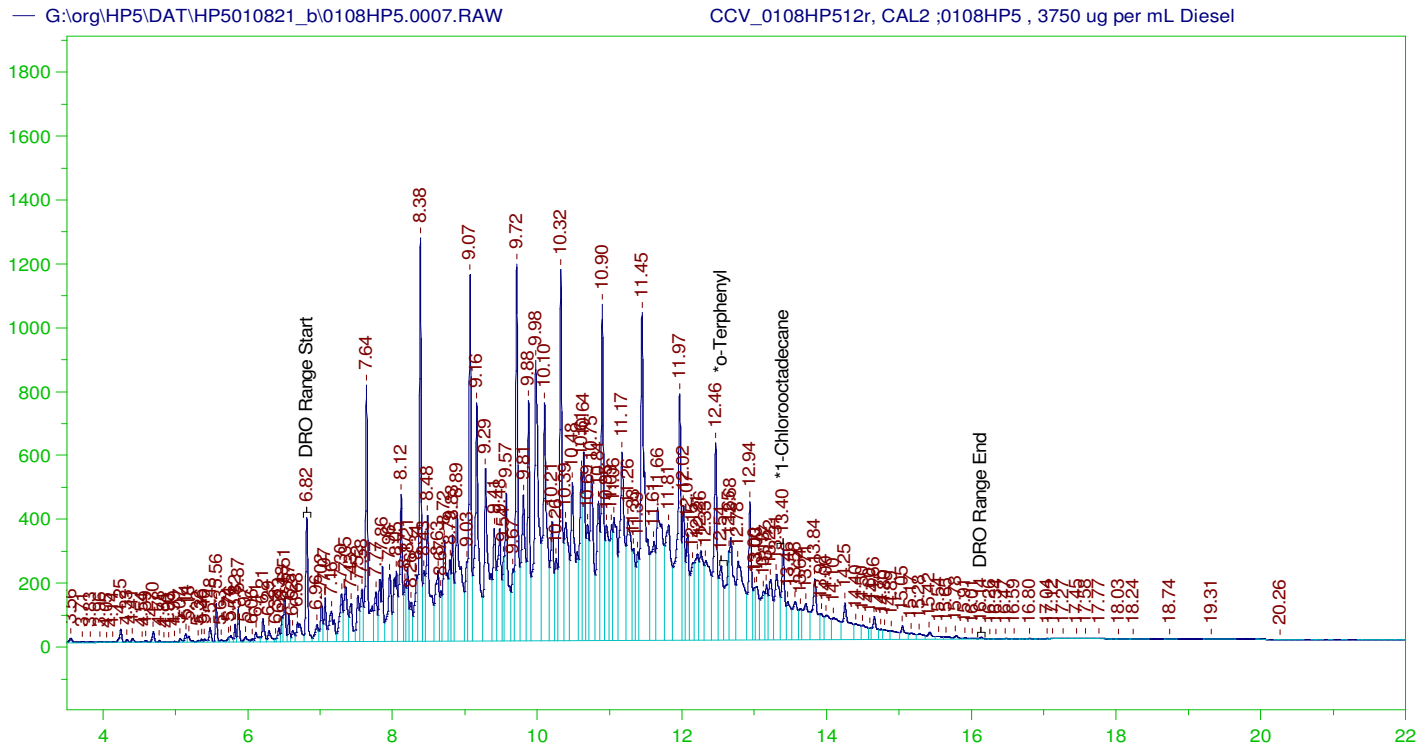
DRO Area:3854036 DRO Amount: 130.8345
TEH Area:3979014 TEH Amount: 135.0772

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 135.08 | .9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | 85-115 |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\006_CCV_0108HP511r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW
Date & Time Acquired: 1/8/2021 3:03:30 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | - |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | - |

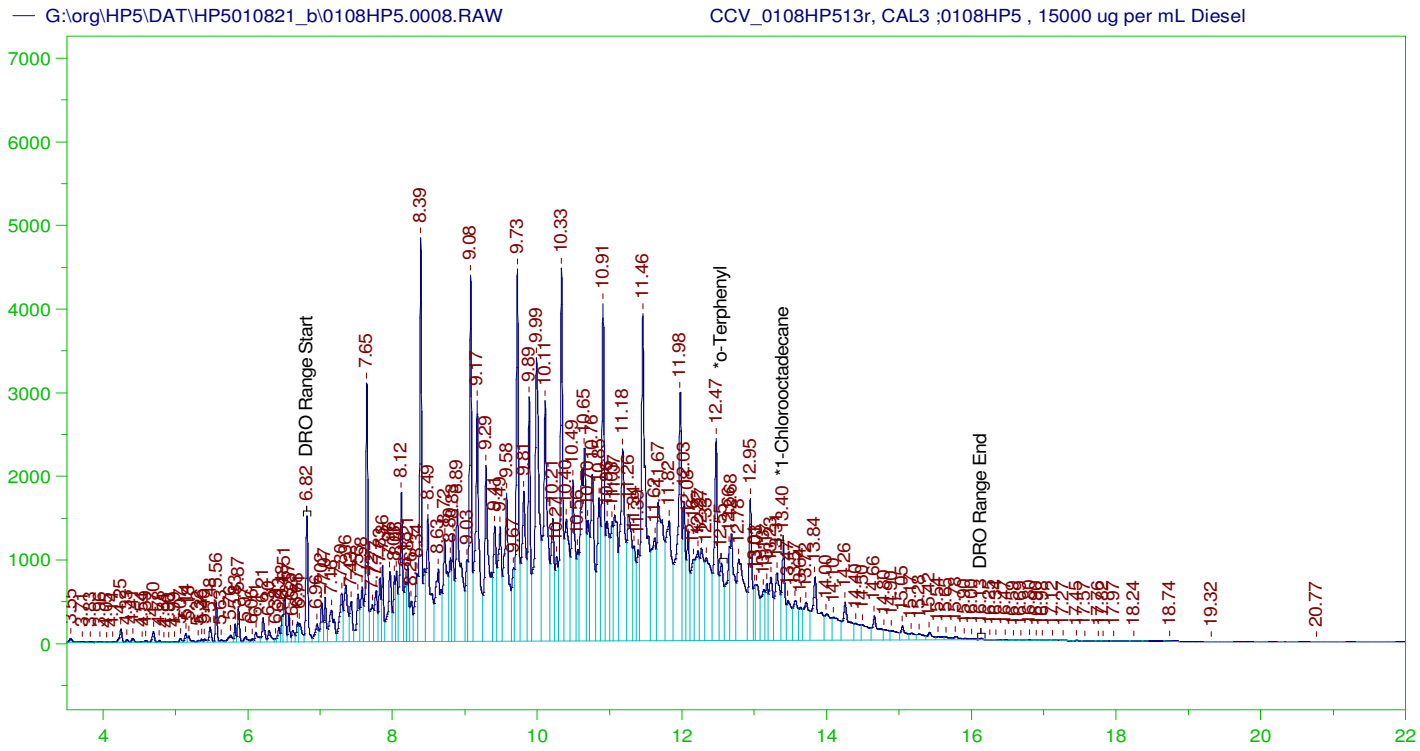
DRO Area:1.111179E+08 DRO Amount: 3772.164
TEH Area:1.138667E+08 TEH Amount: 3865.478

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3865.48 | 25.77 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | 85-115 |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\007_CCV_0108HP512r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW
Date & Time Acquired: 1/8/2021 3:45:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | - |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | - |

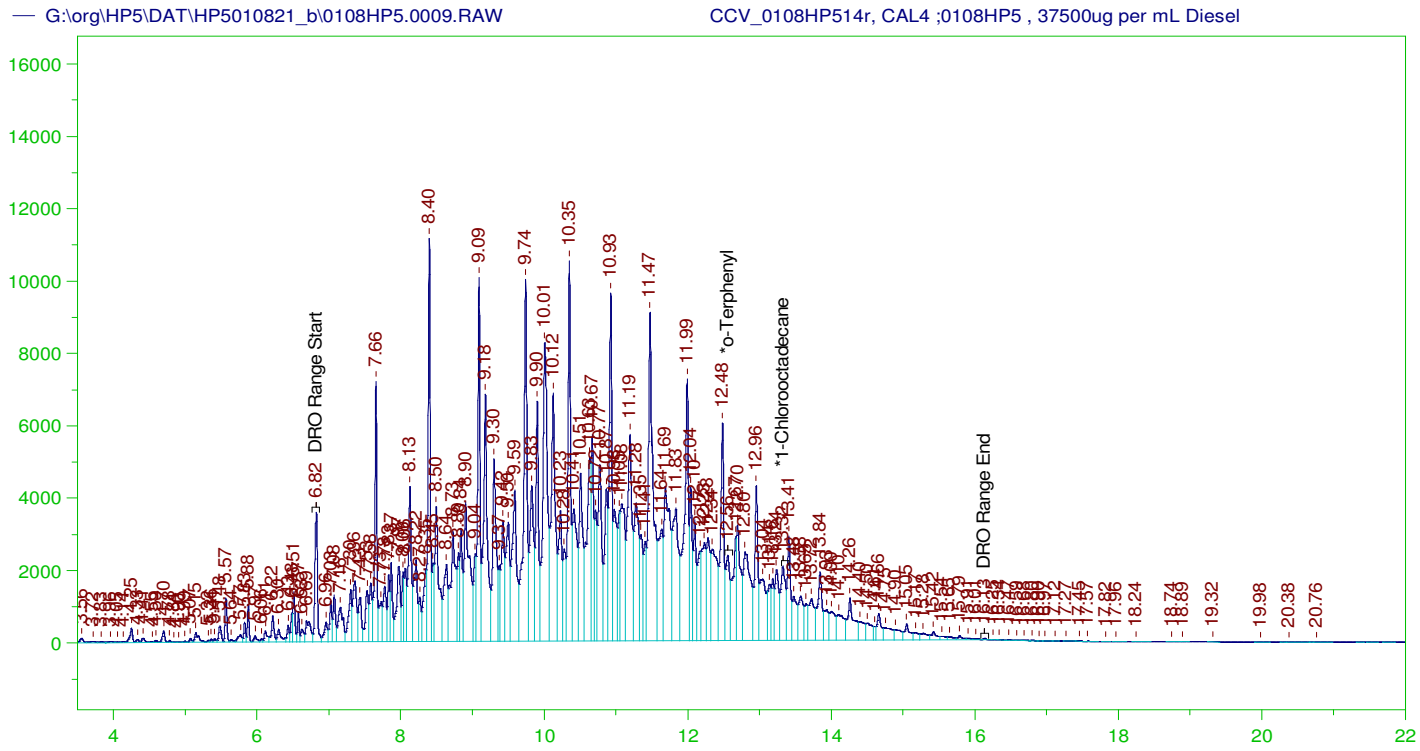
DRO Area:4.420163E+08 DRO Amount: 15005.31
TEH Area:4.530125E+08 TEH Amount: 15378.6

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15378.6 | 102.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | 85-115 |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\008_CCV_0108HP513r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW
Date & Time Acquired: 1/8/2021 4:27:38 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | - |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | - |

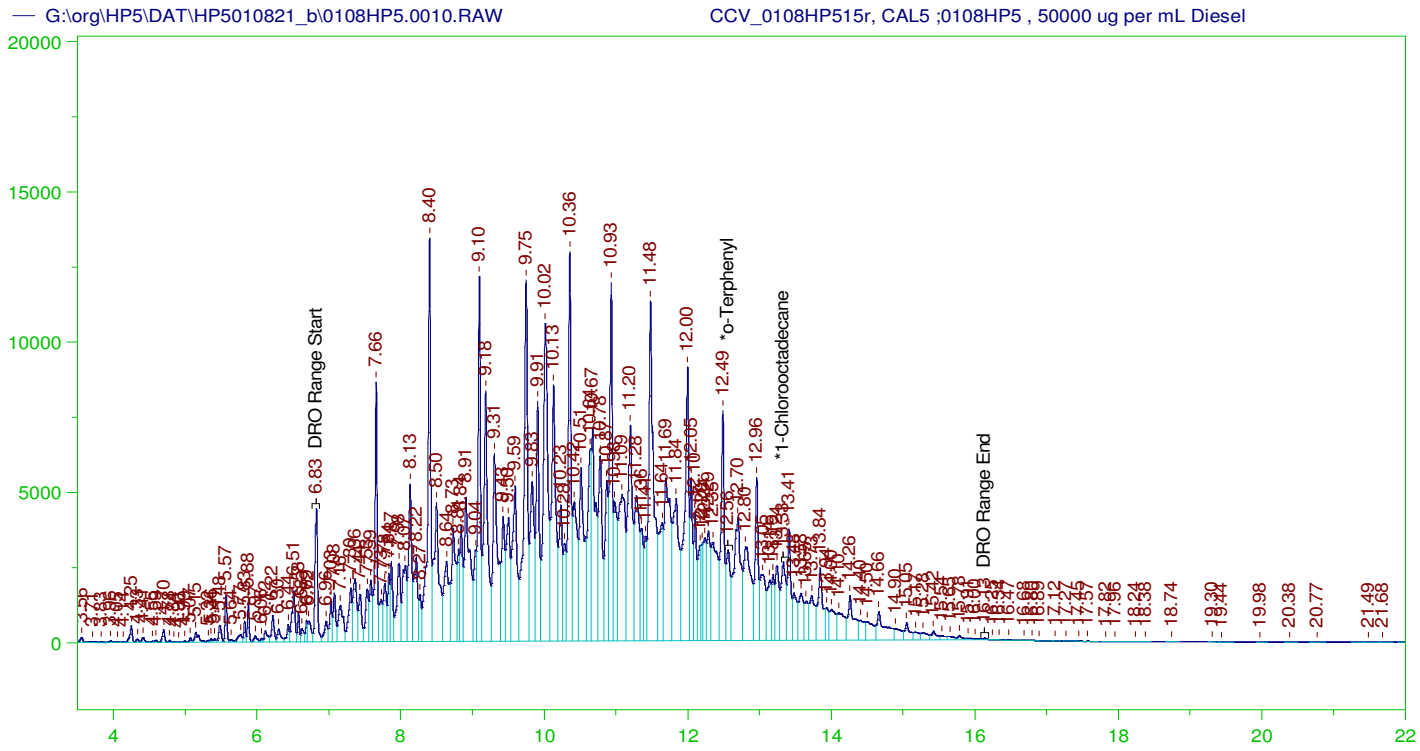
DRO Area:1.1239E+09 DRO Amount: 38153.5
TEH Area:1.151845E+09 TEH Amount: 39102.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39102.15 | 260.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | 85-115 |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\009_CCV_0108HP514r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW
Date & Time Acquired: 1/8/2021 5:09:49 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | - |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | - |

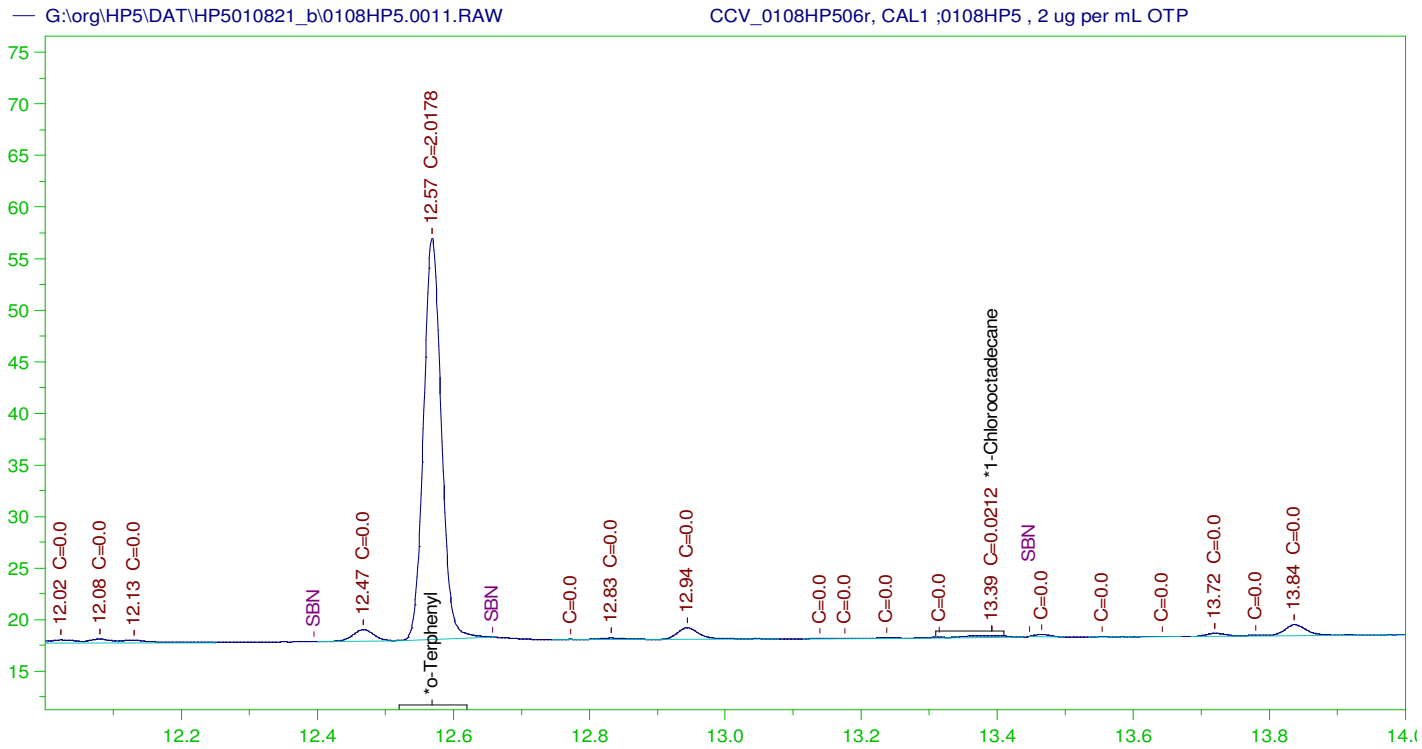
DRO Area:1.438162E+09 DRO Amount: 48821.87
TEH Area:1.473937E+09 TEH Amount: 50036.34

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 50036.34 | 333.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | 85-115 |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\010_CCV_0108HP515r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW
Date & Time Acquired: 1/8/2021 5:52:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | - |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | - |

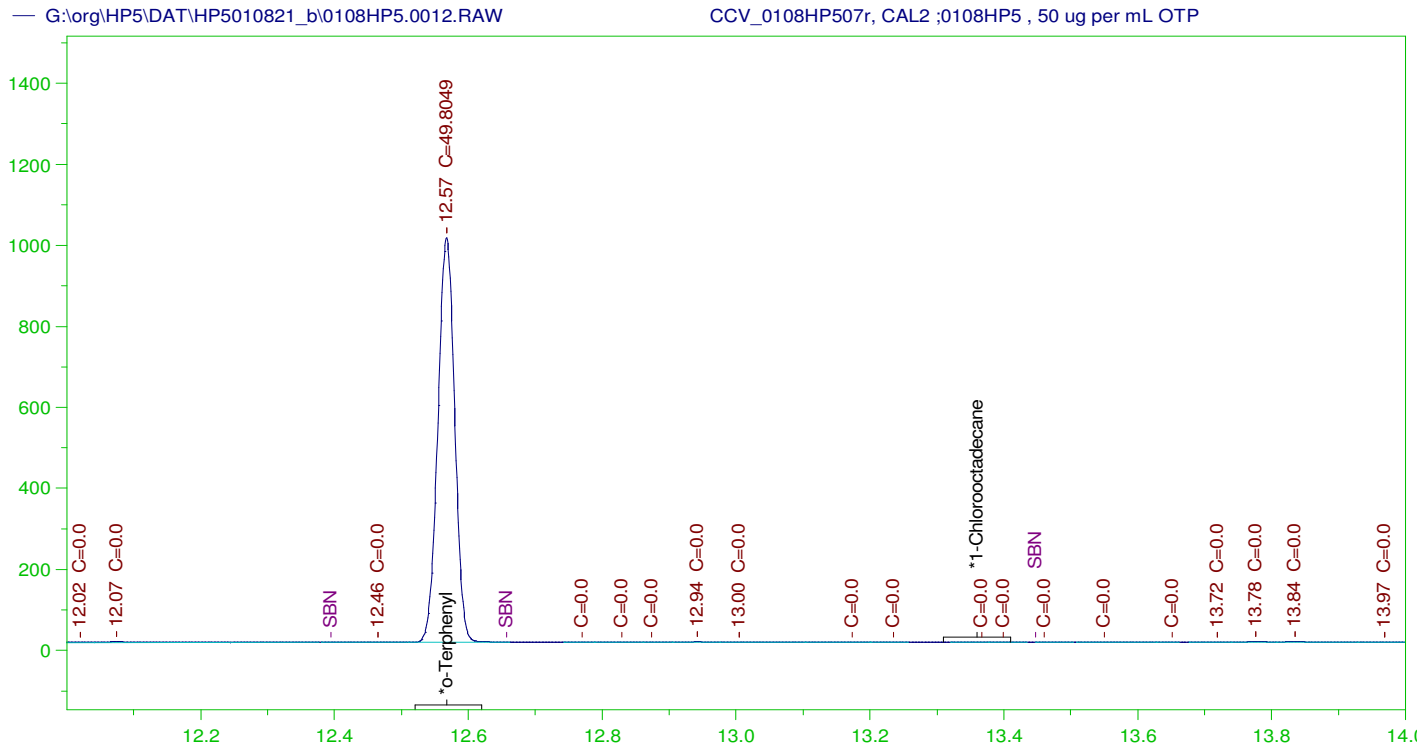
DRO Area:153898.5 DRO Amount: 5.224453
TEH Area:367701.2 TEH Amount: 12.4825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | 85-115 |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\011_CCV_0108HP506r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW
Date & Time Acquired: 1/8/2021 6:34:45 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | - |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | - |

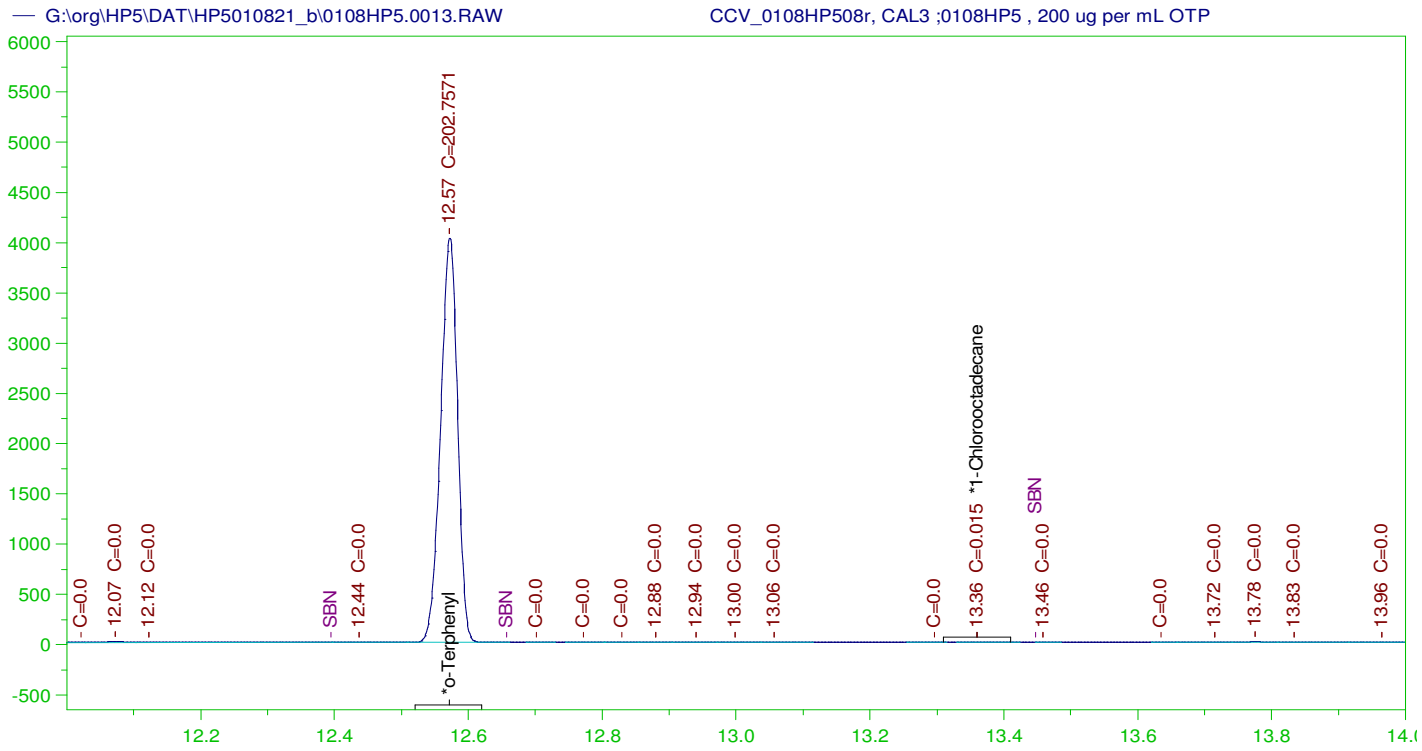
DRO Area:198540.3 DRO Amount: 6.739929
TEH Area:443484.3 TEH Amount: 15.05514

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | 85-115 |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\012_CCV_0108HP507r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW
Date & Time Acquired: 1/8/2021 7:17:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | - |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | - |

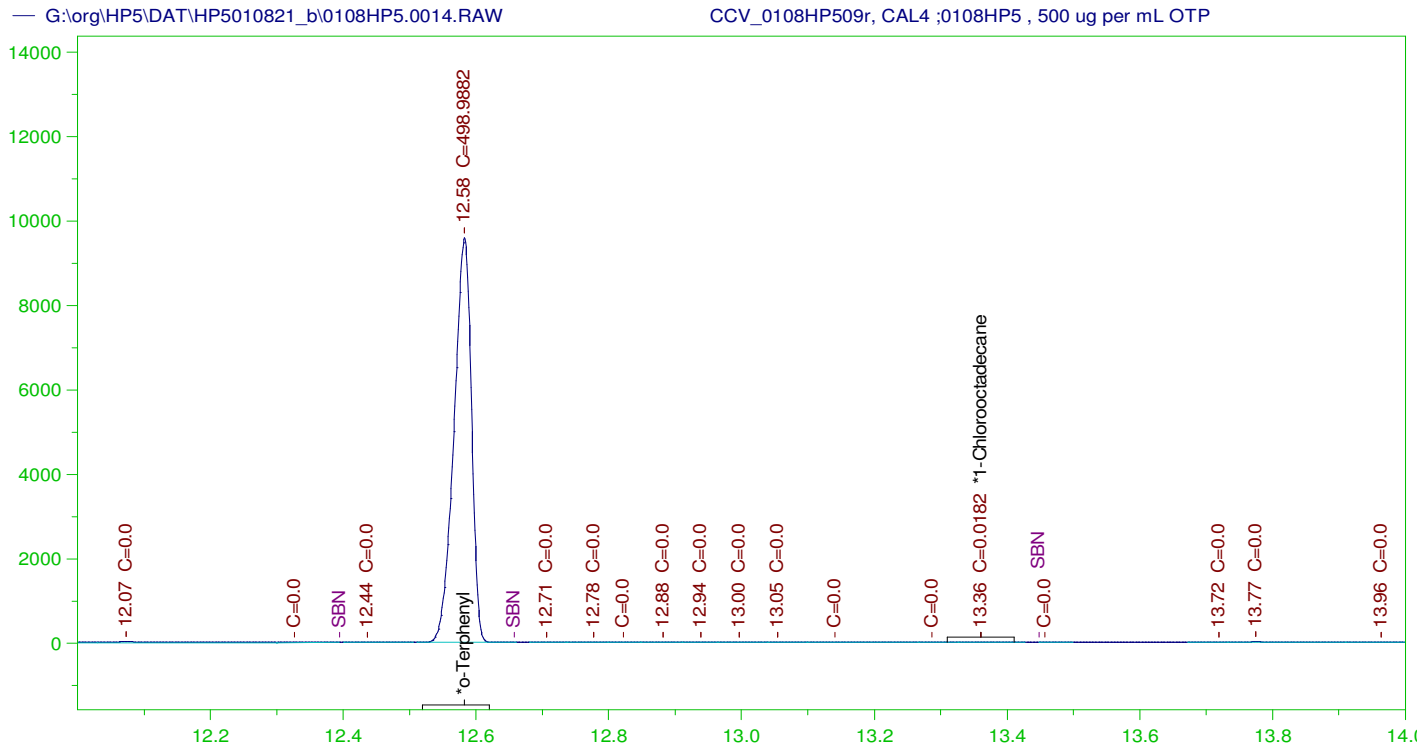
DRO Area:425468.4 DRO Amount: 14.44355
TEH Area:809202.7 TEH Amount: 27.47033

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 27.47 | .18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | 85-115 |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\013_CCV_0108HP508r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW
Date & Time Acquired: 1/8/2021 7:59:52 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | - |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | - |

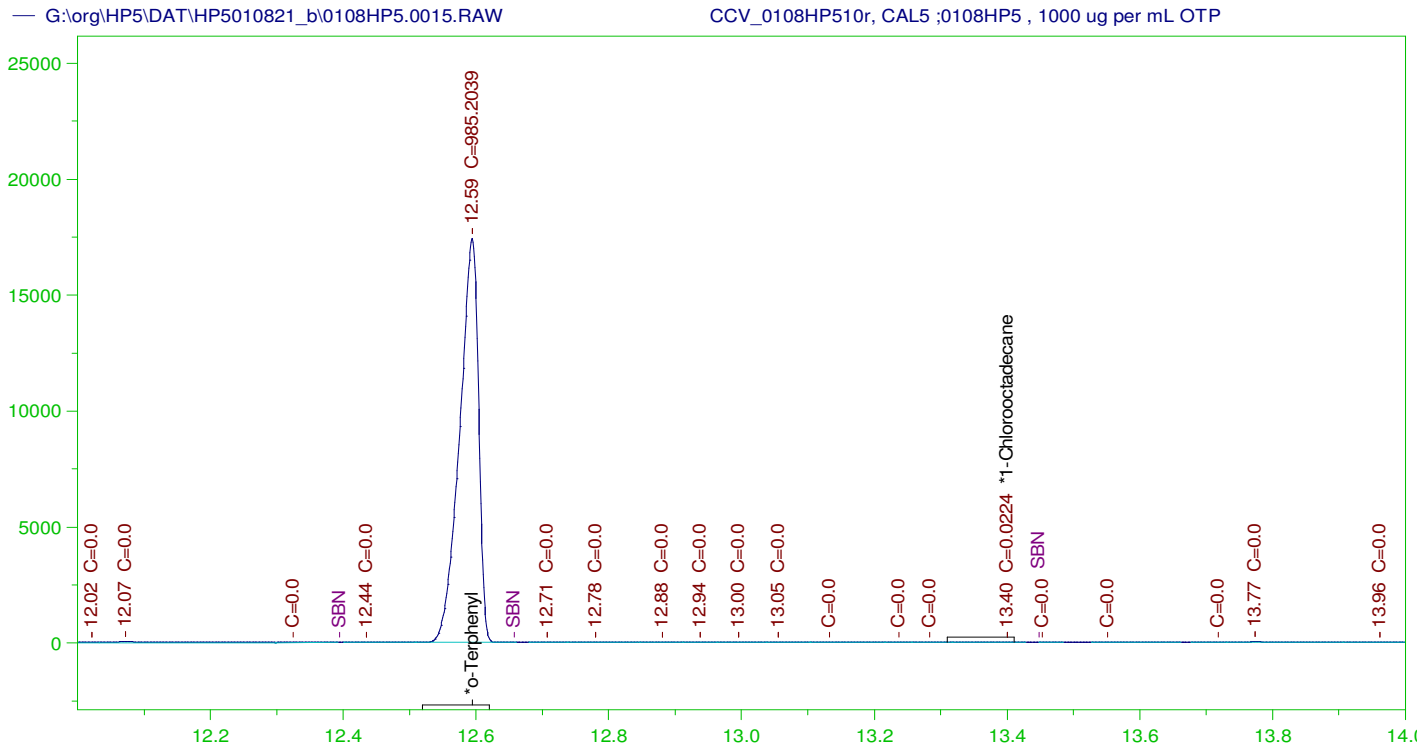
DRO Area:651862.6 DRO Amount: 22.12904
TEH Area:1164840 TEH Amount: 39.5433

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39.54 | .26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | 85-115 |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\014_CCV_0108HP509r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW
Date & Time Acquired: 1/8/2021 8:42:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | - |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | - |

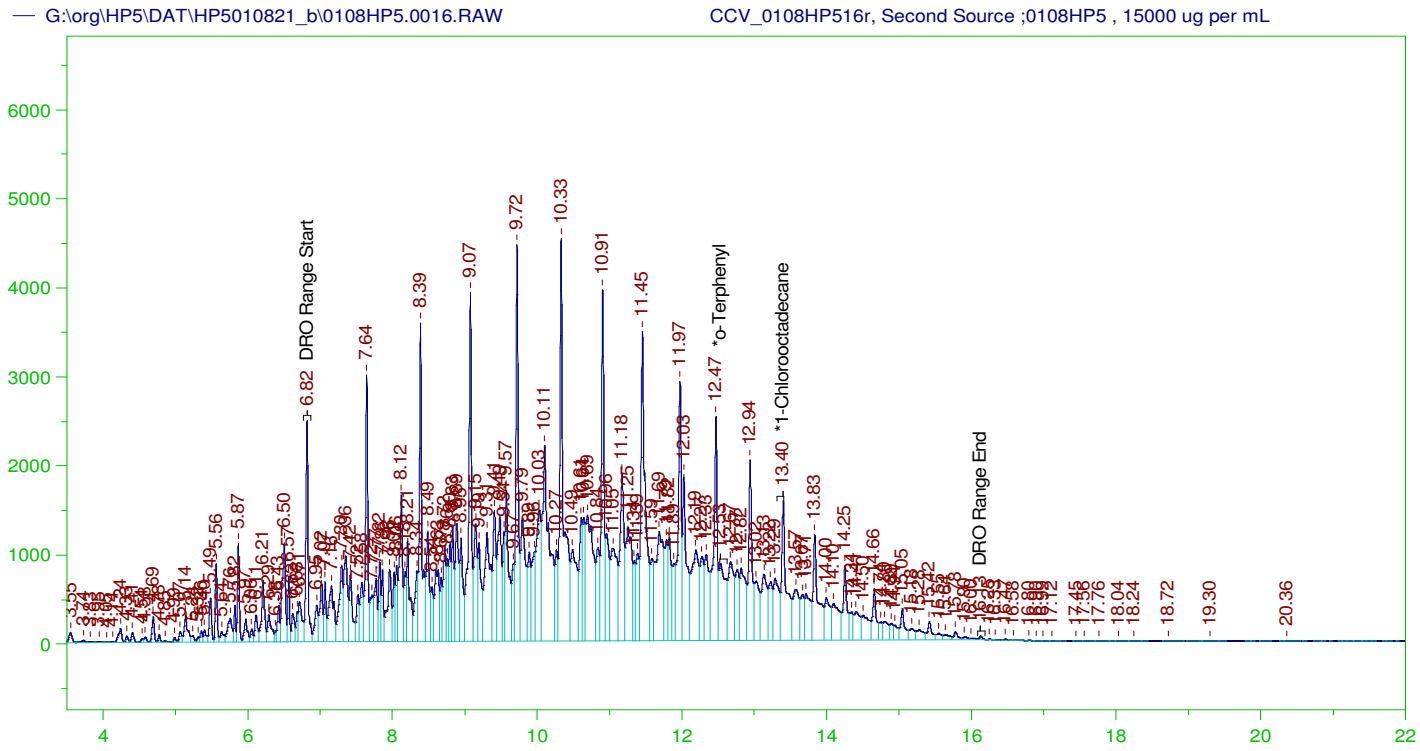
DRO Area:856596.9 DRO Amount: 29.07924
TEH Area:1371563 TEH Amount: 46.561

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 46.56 | .31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | 85-115 |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\015_CCV_0108HP510r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW
Date & Time Acquired: 1/8/2021 9:25:08 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | - |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | - |

DRO Area:4.138122E+08 DRO Amount: 14047.85
TEH Area:4.4015E+08 TEH Amount: 14941.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 14941.95 | 99.61 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | 85-115 |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\016_CCV_0108HP516r_DC_8015-HA-L%.xls

Write Sequence

Insert Entries(Have the first cell for entries selected)

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj.. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | Integration is valley to valley. Assigned Set Baseline All Valley on at 17.5. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.01.27 15:17:17 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Sep-21*

**Run ID** GCFID-HP5-B_210218B

**Run Start Date:** 2/18/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015 OIL range calibration
SW8015_OIL210218

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL | 8/31/2025 |
| DRO210204A | Carbon Scan STD | | | | | MARKER | 3/5/2028 |
| DRO210217A | 20,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | ICV | 8/23/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282665 | CCV_0218HP50 | HC-8015-DRO- | CAL1 | | 2/18/2021 12:03: | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1468323 | | 0.15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282666 | CCV_0218HP50 | HC-8015-DRO- | CAL2 | | 2/18/2021 1:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.062811 | | 1 | 0 | 0 | 0.15 | 0.3 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282667 | CCV_0218HP50 | HC-8015-DRO- | CAL3 | | 2/18/2021 2:51:0 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.035713 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282668 | CCV_0218HP50 | HC-8015-DRO- | CAL4 | | 2/18/2021 4:14:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.69295 | | 15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282669 | CCV_0218HP51 | HC-8015-DRO- | CAL5 | | 2/18/2021 5:38:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 28.20769 | | 30 | 0 | 0 | 0.15 | 0.3 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282670 | CCV_0218HP51 | HC-8015-DRO- | ICV | | 2/18/2021 8:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.474465 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 109% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Nam | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Version: 4

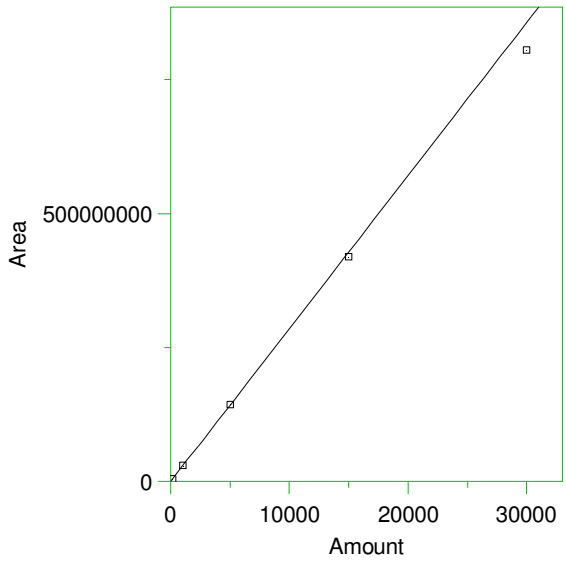
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




Expected retention time: 6.54 minutes
Search window: 0.05 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

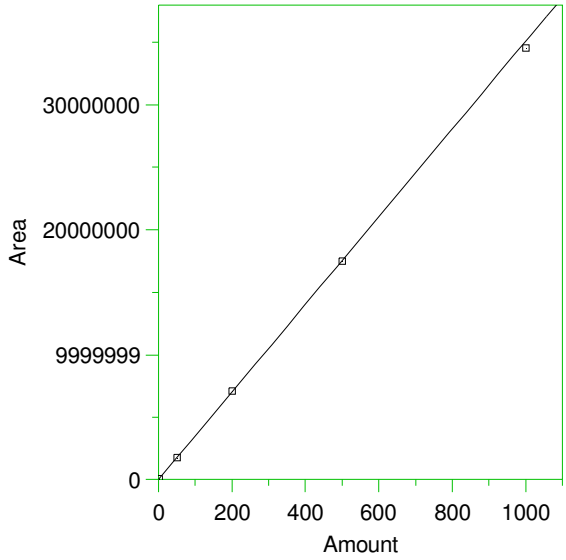
Single peak quantification by area

Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9940317
Average error: 3.209%
Average CF: 28542.41
RSD: 4.497%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 3/30/2021 11:50:57 AM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 3/30/2021 11:51:41 AM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 3/30/2021 11:52:00 AM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 3/30/2021 11:52:55 AM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 3/30/2021 11:52:32 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.14 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

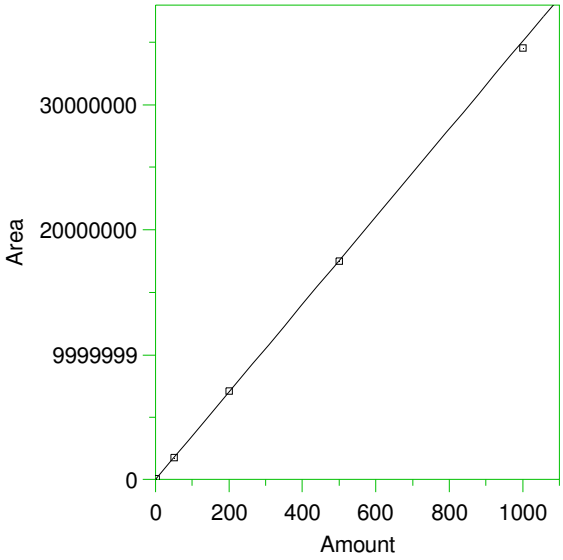
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.95 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

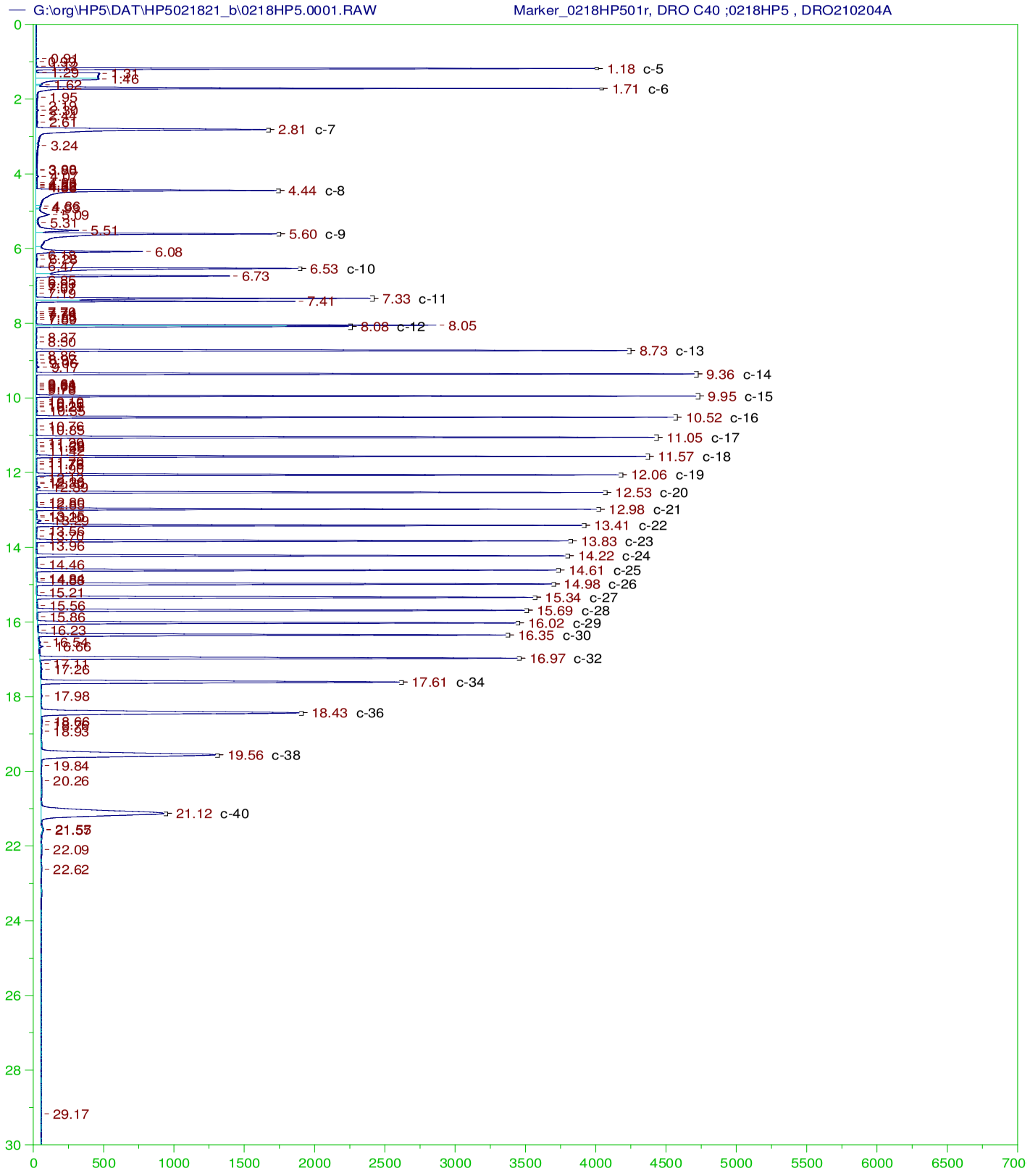
Single peak quantification by area

Y = 35071.26 X + 0

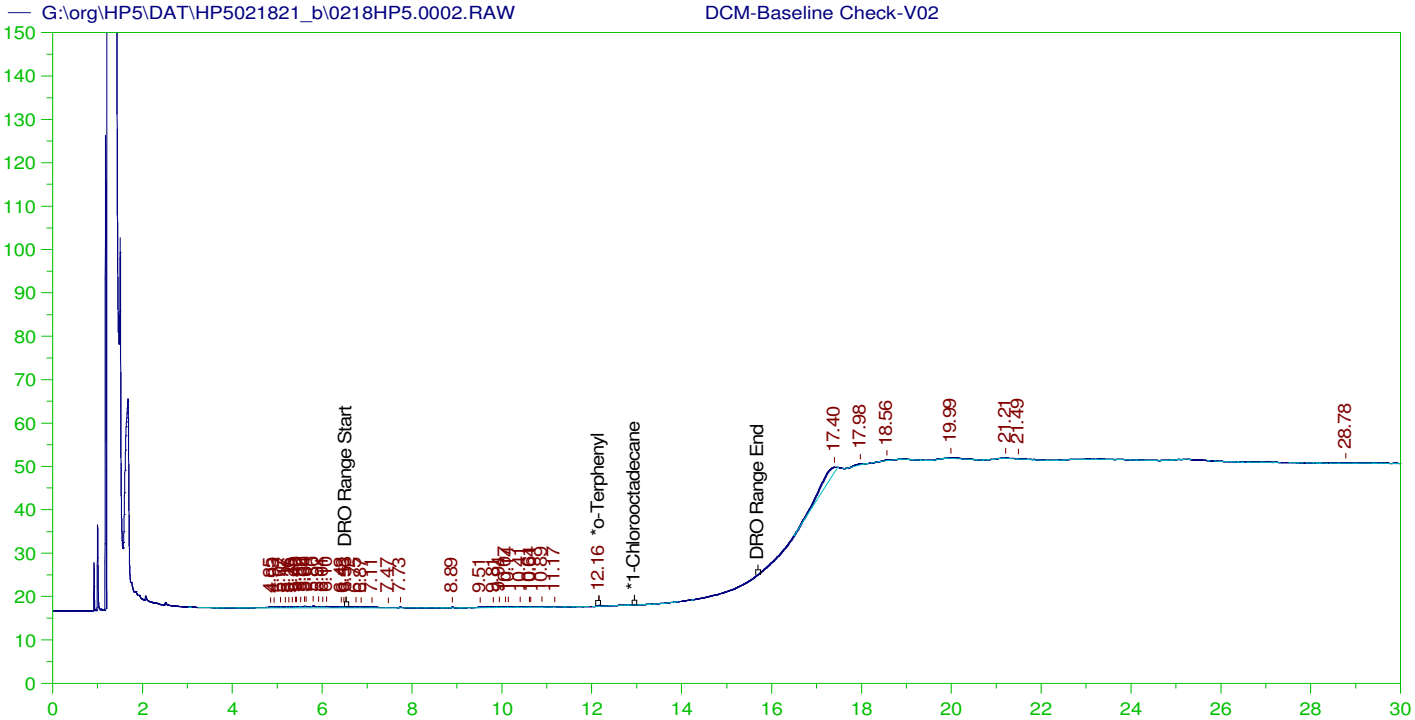
Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




G:\org\HP5\dat\HP5021821_b\Review\001_Marker_0218HP501r_CSC210212.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

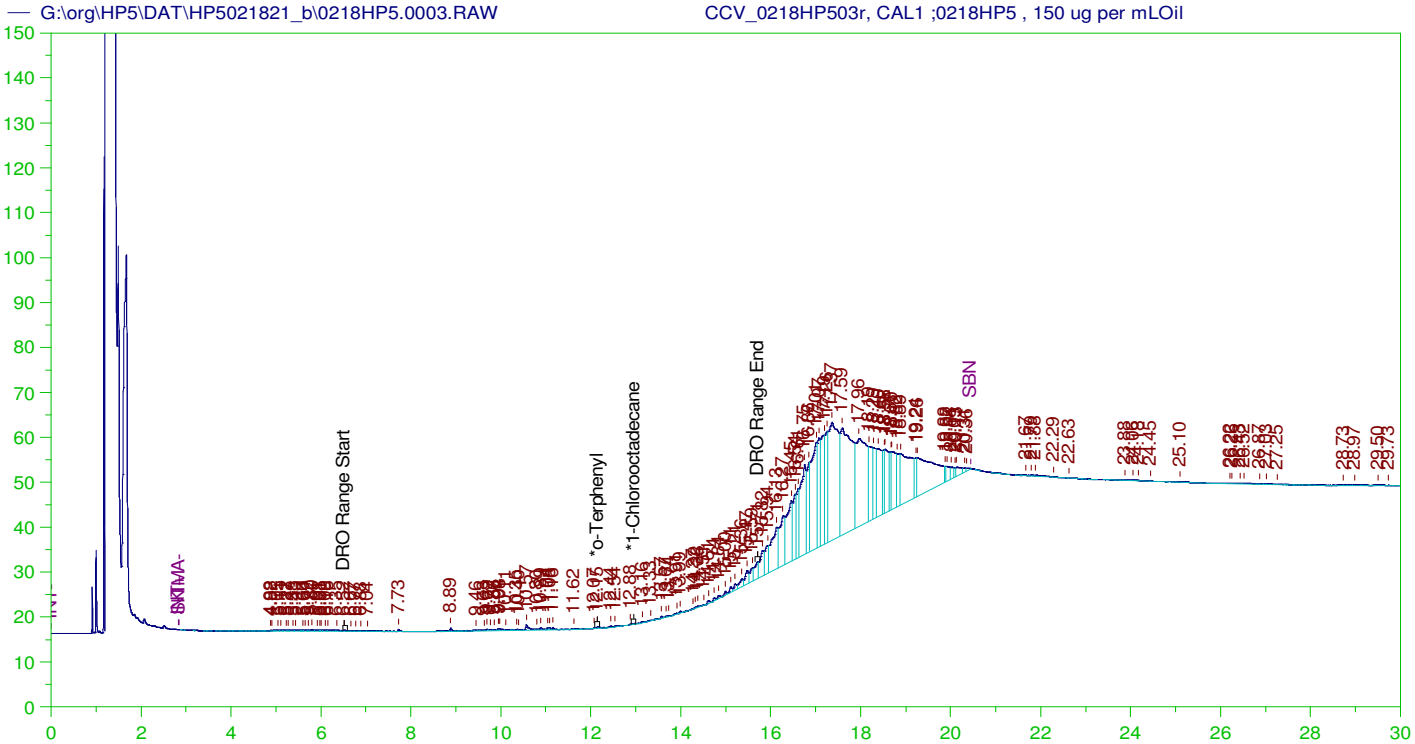
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
Date & Time Acquired: 2/18/2021 11:21:40 AM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.158 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 29.927 | 200. | . | . | - |

DRO Area:29553.31 DRO Amount: 1.003258
TEH Area:144057.3 TEH Amount: 4.890373

G:\org\HP5\dat\HP5021821_b\Review\002_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW
Date & Time Acquired: 2/18/2021 12:03:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021803-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | - |

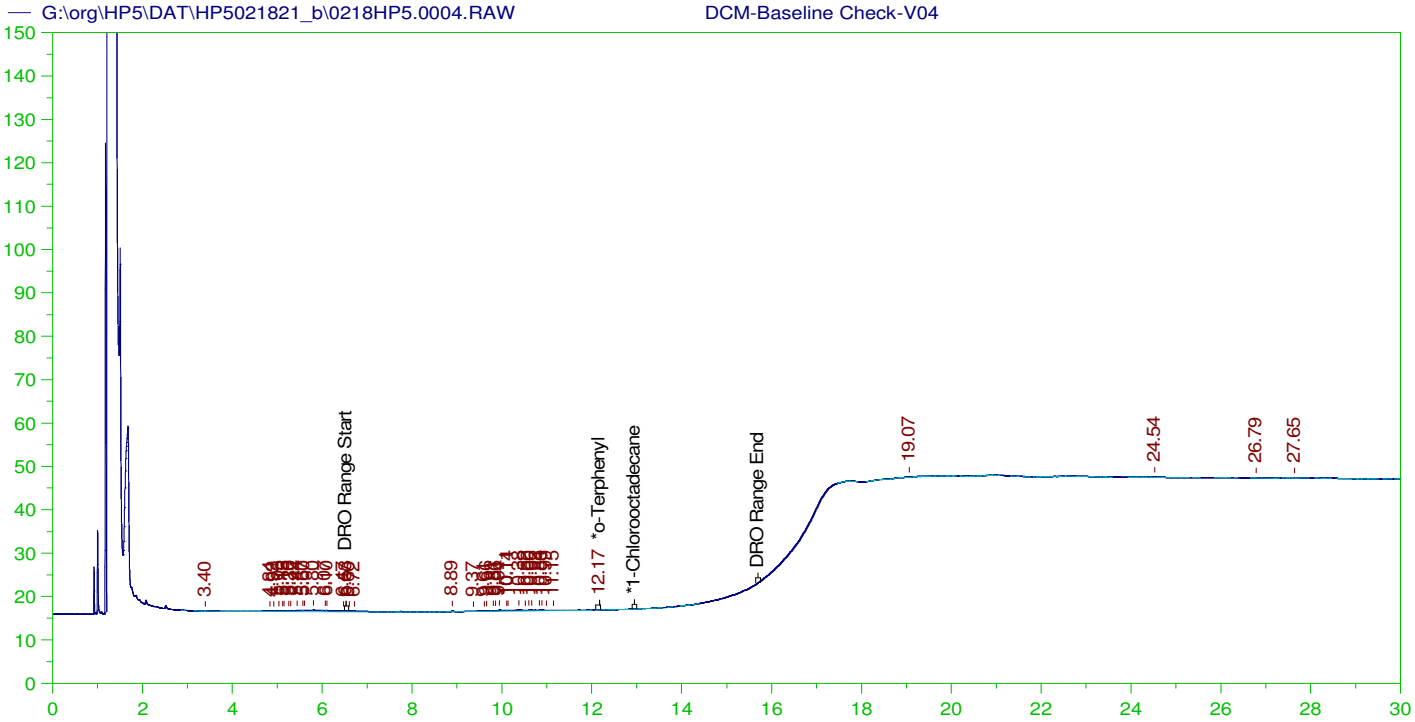
DRO Area:141843.8 DRO Amount: 4.969579
TEH Area:3766485 TEH Amount: 131.961

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 131.96 | 2.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | 85-115 |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\003_CCV_0218HP503r_DR_OIL-021803-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

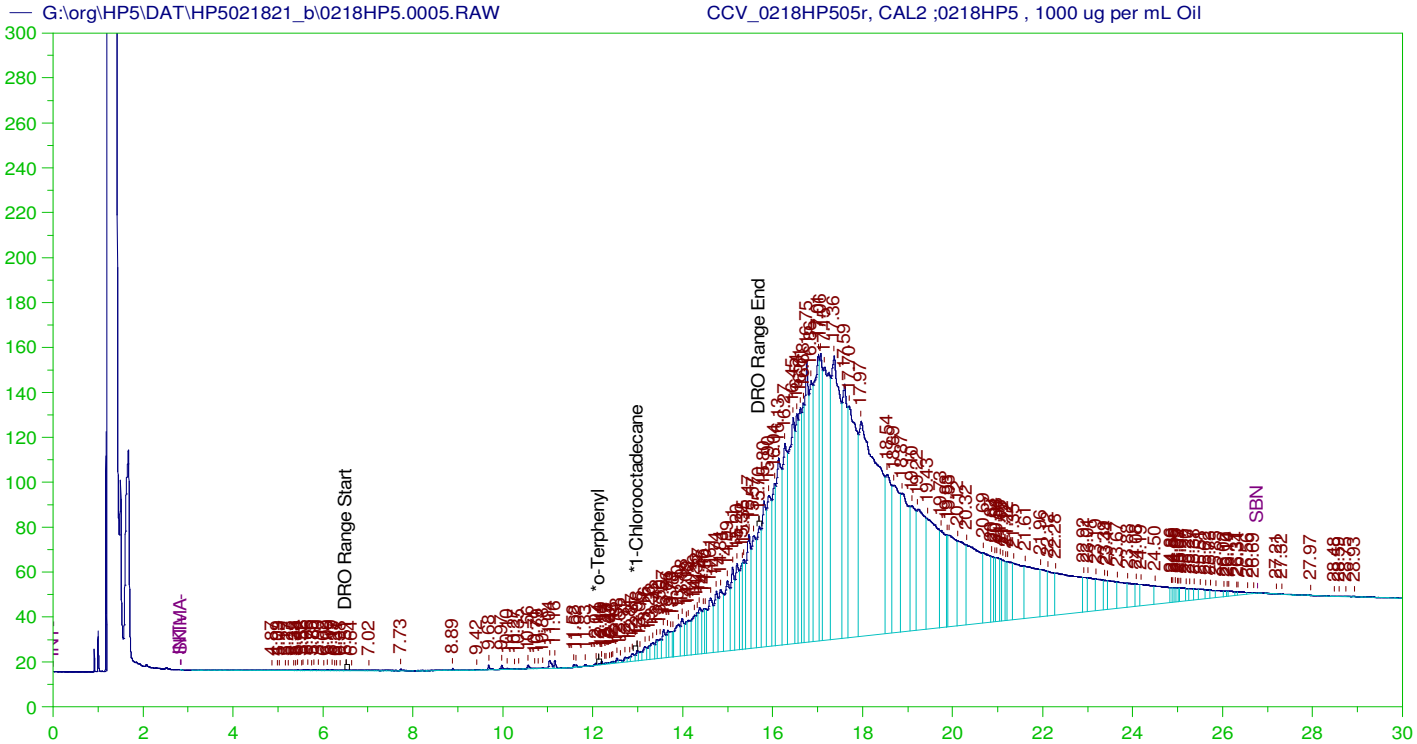
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
Date & Time Acquired: 2/18/2021 12:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.171 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.958 | 200. | . | . | - |

DRO Area:27245.38 DRO Amount: 0.9249101
TEH Area:63574.01 TEH Amount: 2.158173

G:\org\HP5\dat\HP5021821_b\Review\004_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW
Date & Time Acquired: 2/18/2021 1:27:30 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021805-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | - |

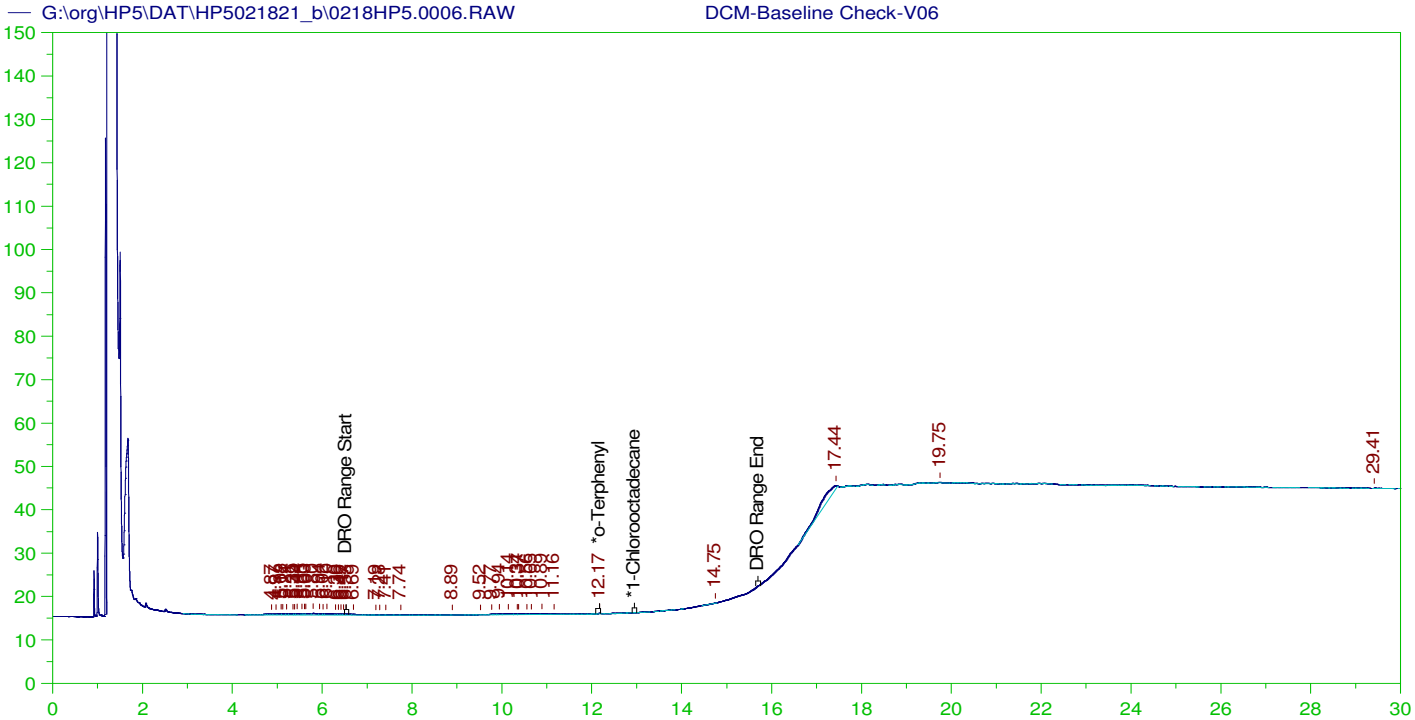
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1062.81 | 21.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | 85-115 |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\005_CCV_0218HP505r_DR_OIL-021805-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

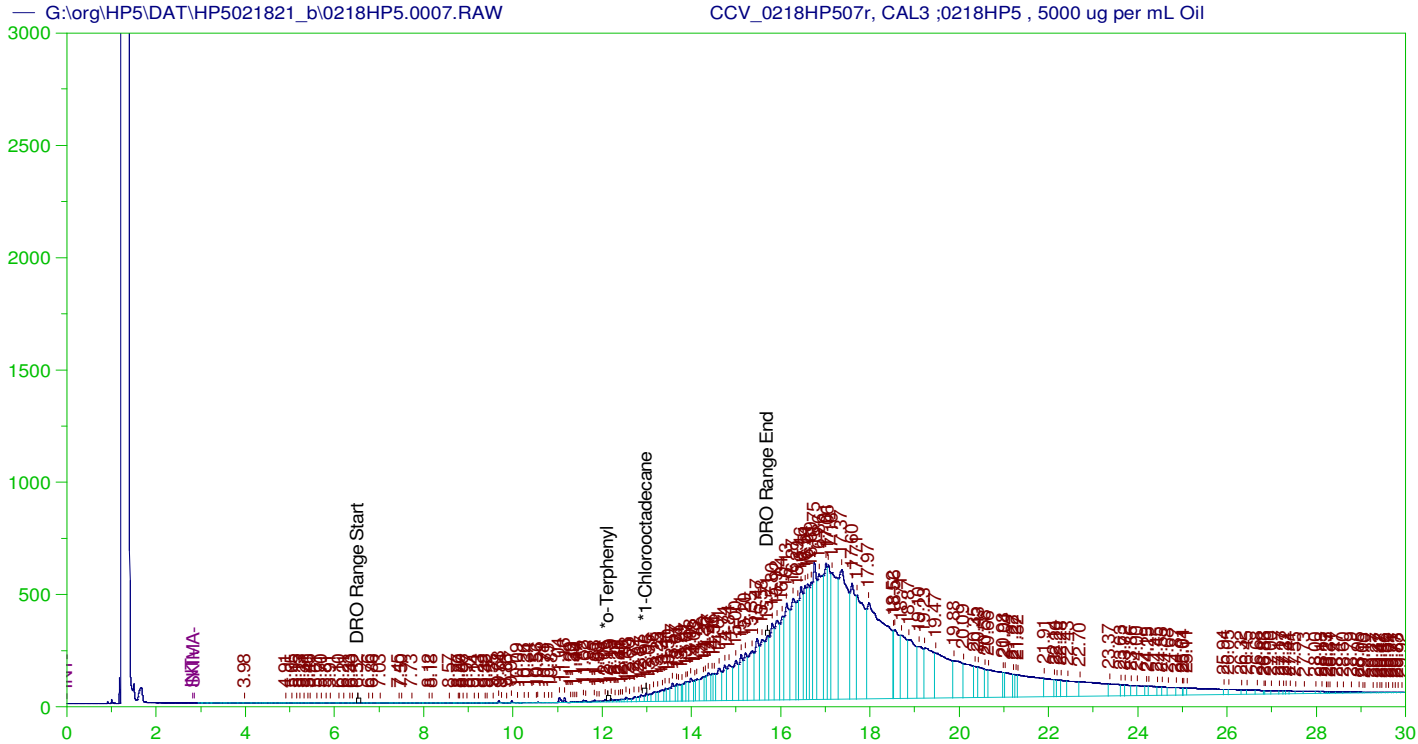
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0006.RAW
Date & Time Acquired: 2/18/2021 2:09:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:29249.25 DRO Amount: 0.9929362
TEH Area:123949.1 TEH Amount: 4.20775

G:\org\HP5\dat\HP5021821_b\Review\006_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW
Date & Time Acquired: 2/18/2021 2:51:00 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | - |

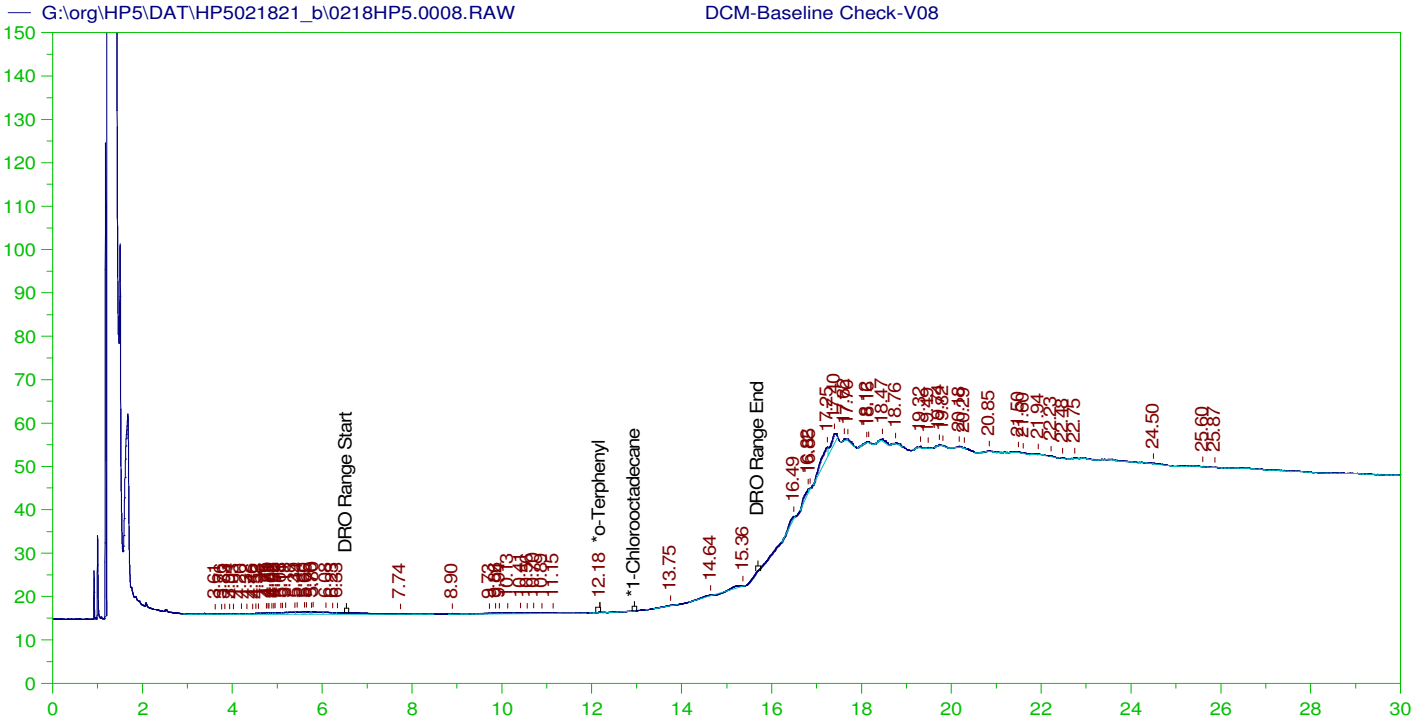
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5035.71 | 100.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\007_CCV_0218HP507r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

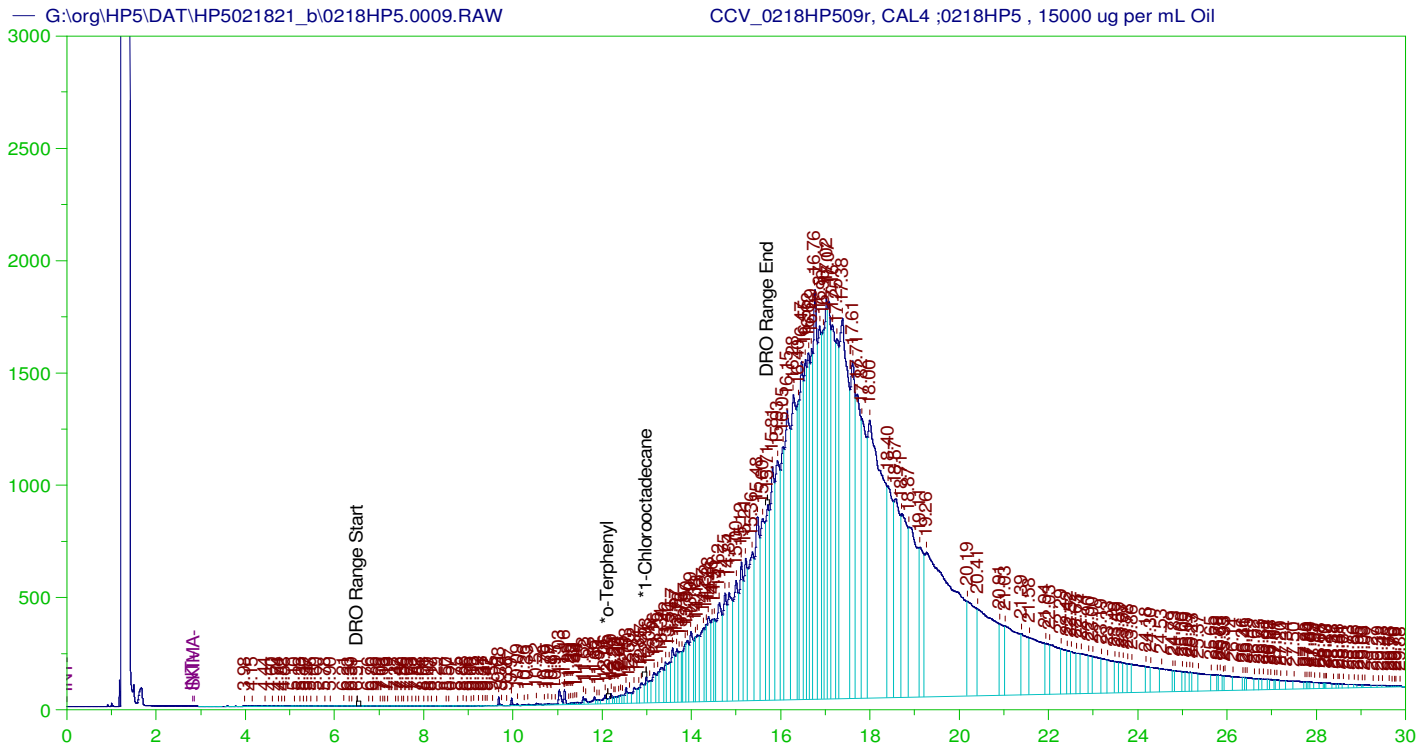
Sample Name: DCM-Baseline Check-V08
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0008.RAW
Date & Time Acquired: 2/18/2021 3:32:46 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .026 | .01 - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . - |

DRO Area:30717.07 DRO Amount: 1.042765
TEH Area:223672.8 TEH Amount: 7.593112

G:\org\HP5\dat\HP5021821_b\Review\008_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW
Date & Time Acquired: 2/18/2021 4:14:34 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | - |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | - |

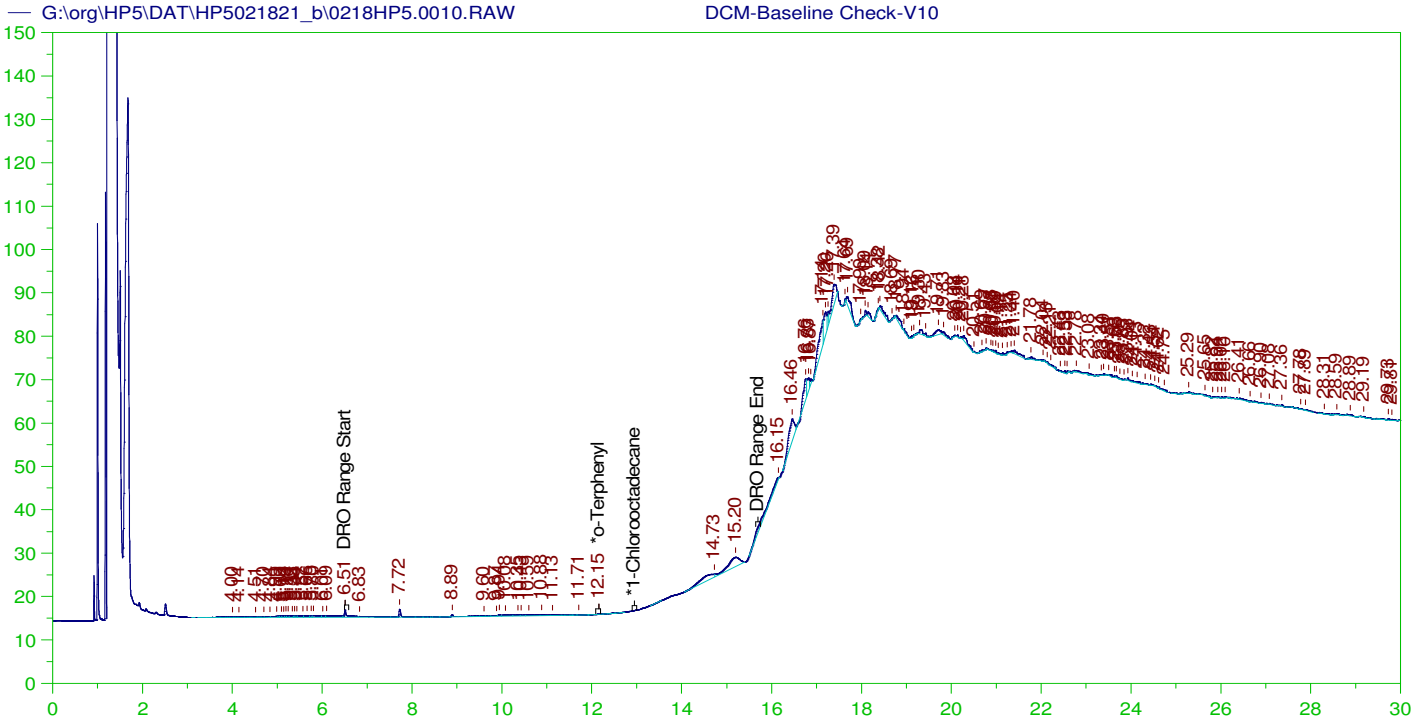
DRO Area:6.73131E+07 DRO Amount: 2358.354
TEH Area:4.193721E+08 TEH Amount: 14692.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14692.95 | 293.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | 85-115 |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\009_CCV_0218HP509r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

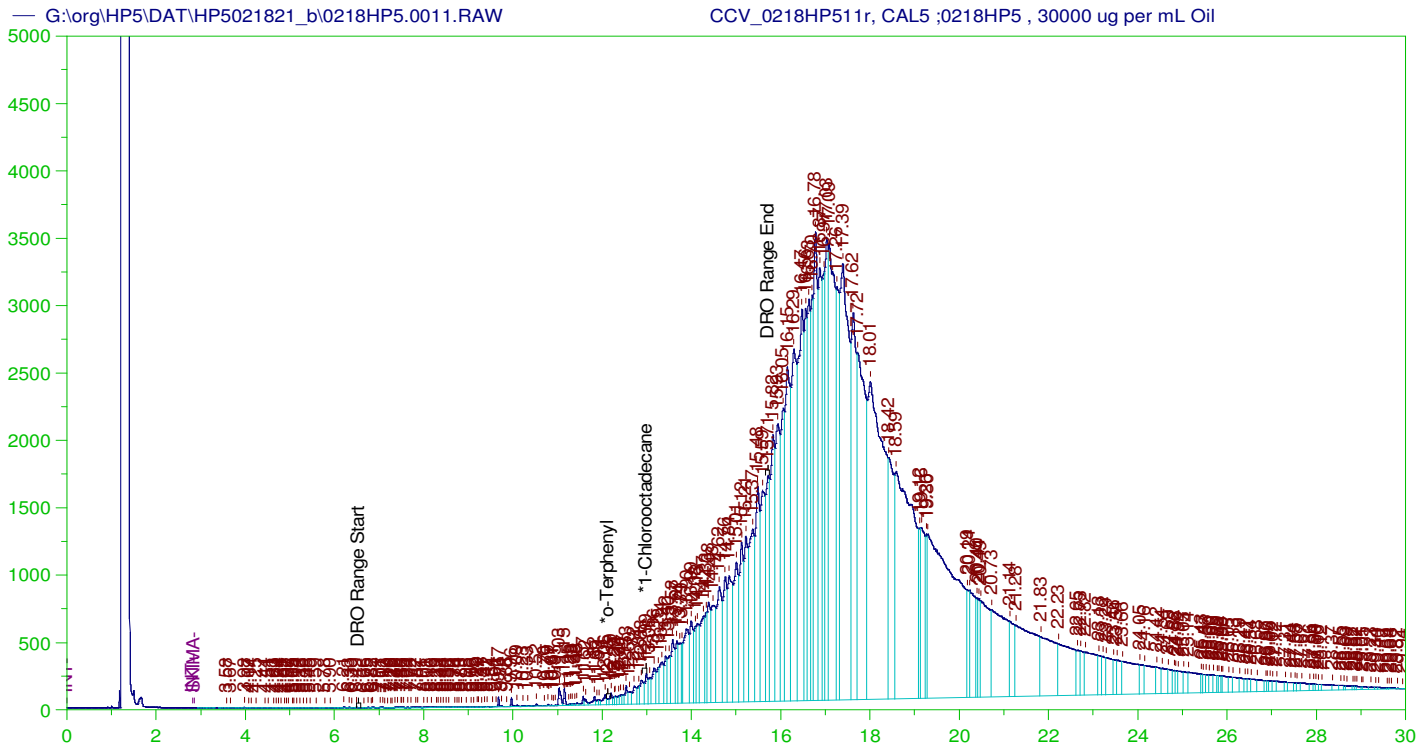
Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0010.RAW
Date & Time Acquired: 2/18/2021 4:56:16 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.153 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.957 | 200. | . | . | - |

DRO Area:108629.1 DRO Amount: 3.687675
TEH Area:543425.7 TEH Amount: 18.44789

G:\org\HP5\dat\HP5021821_b\Review\010_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW
Date & Time Acquired: 2/18/2021 5:38:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | - |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | - |

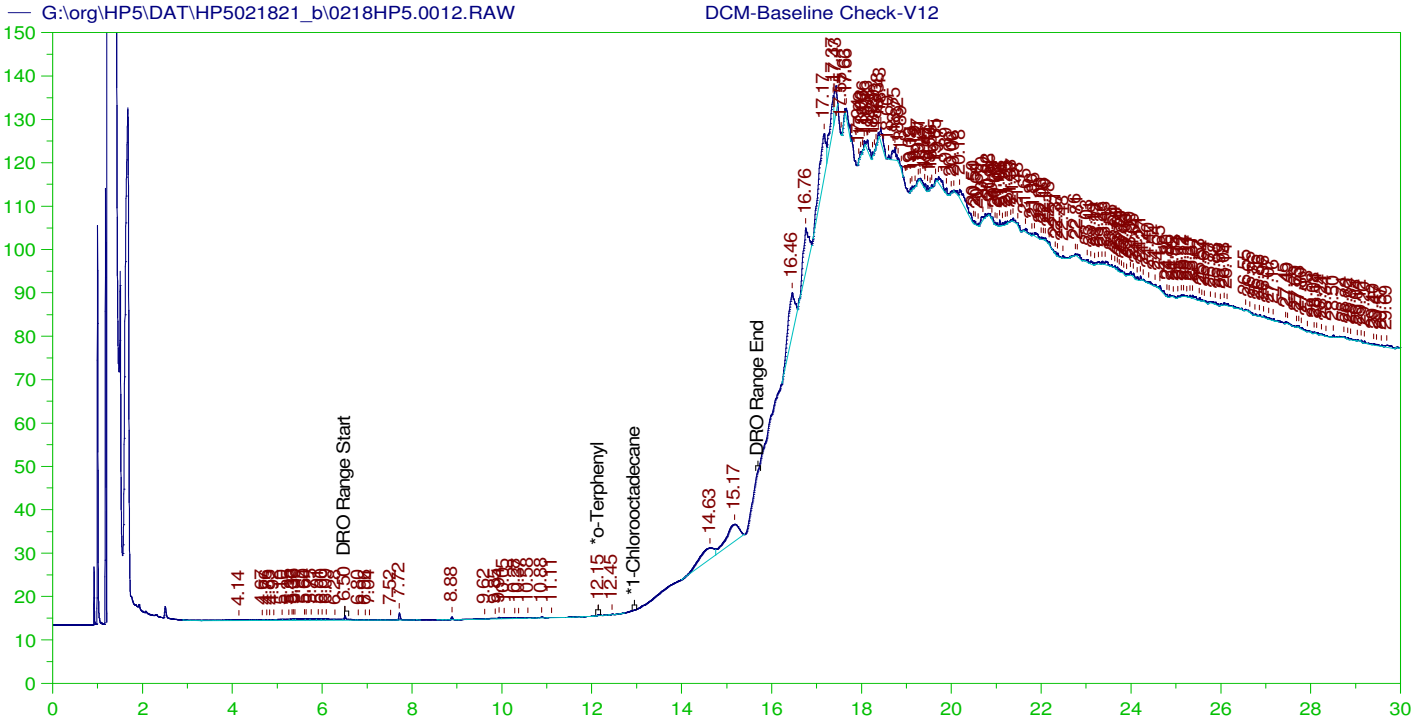
DRO Area:1.319327E+08 DRO Amount: 4622.338
TEH Area:8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 28207.69 | 564.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | 85-115 |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\011_CCV_0218HP511r_DR_OIL-021811-AA-L0.xls



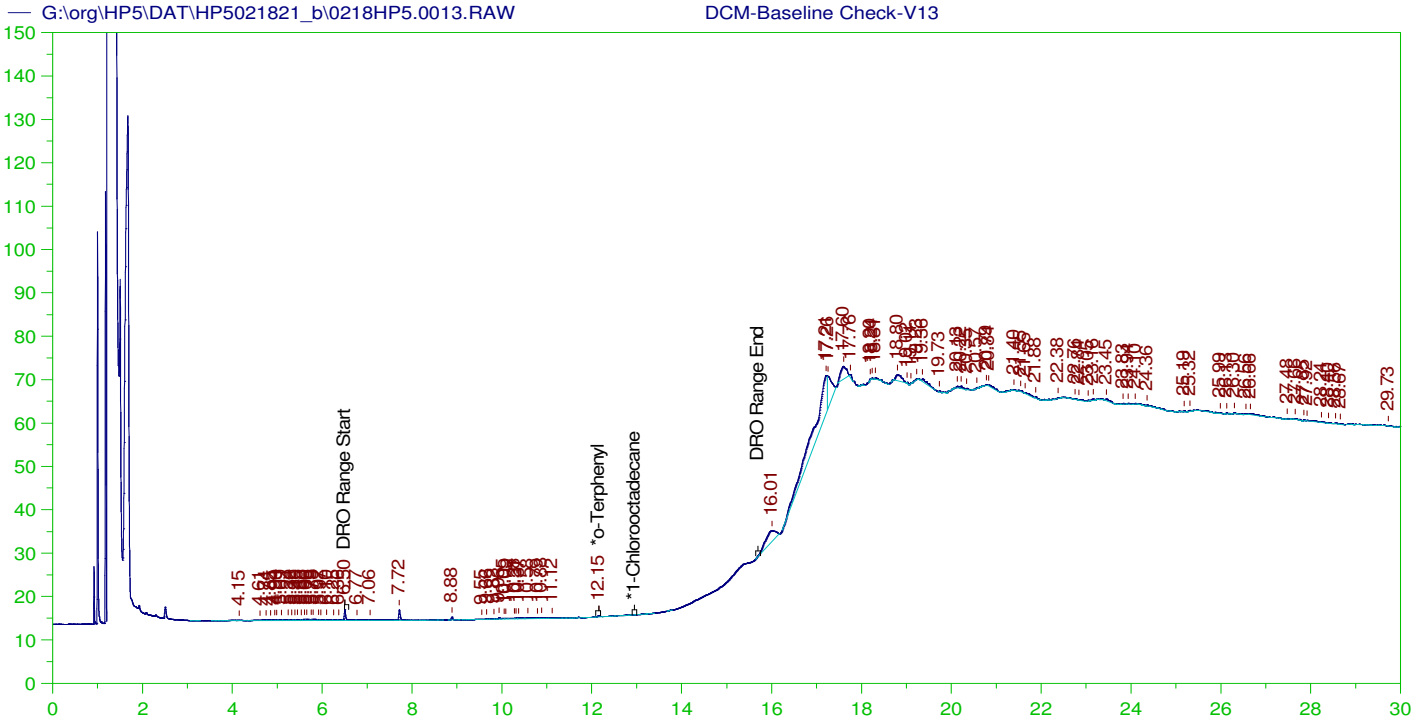

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0012.RAW
Date & Time Acquired: 2/18/2021 6:20:48 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:186033.1 DRO Amount: 6.31534
TEH Area:888262.2 TEH Amount: 30.1542




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

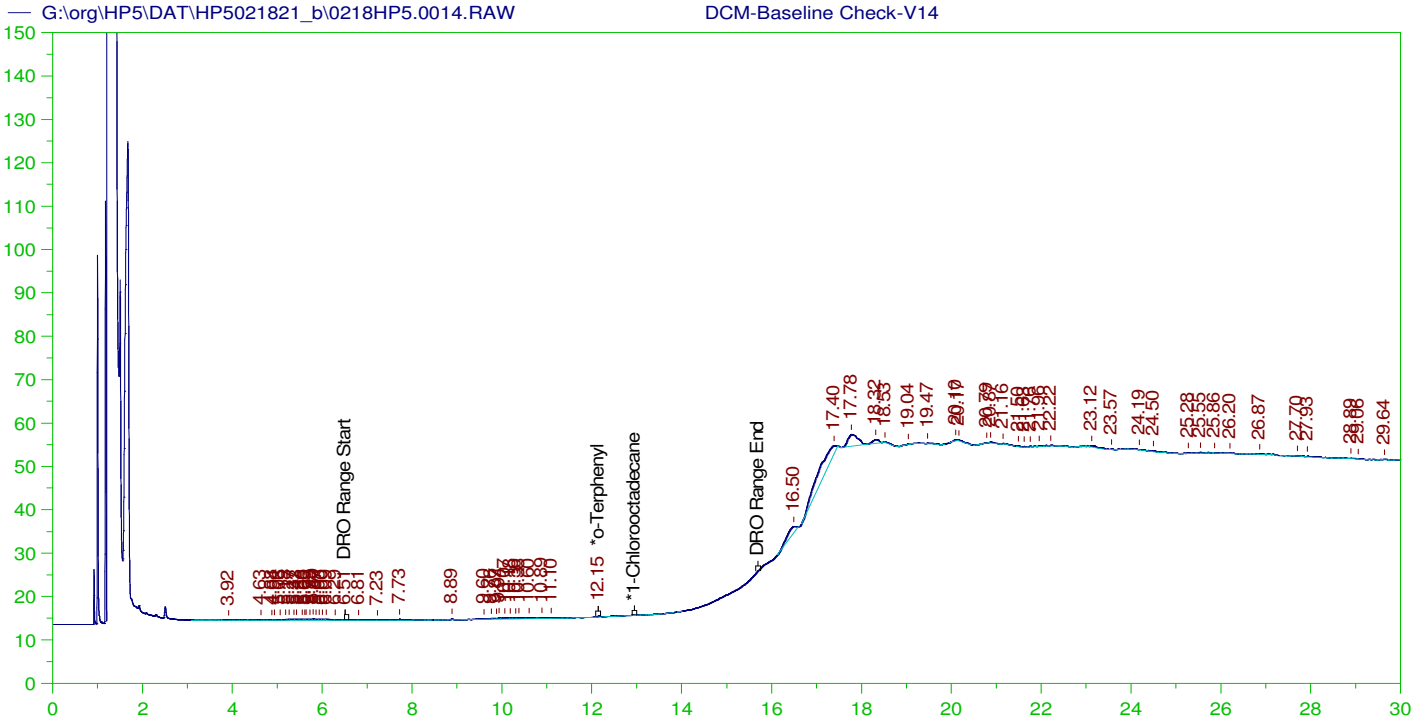
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0013.RAW
Date & Time Acquired: 2/18/2021 7:03:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.152 | 200. | .033 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:40824.55 DRO Amount: 1.385888
TEH Area:476705.3 TEH Amount: 16.18291

G:\org\HP5\dat\HP5021821_b\Review\013_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

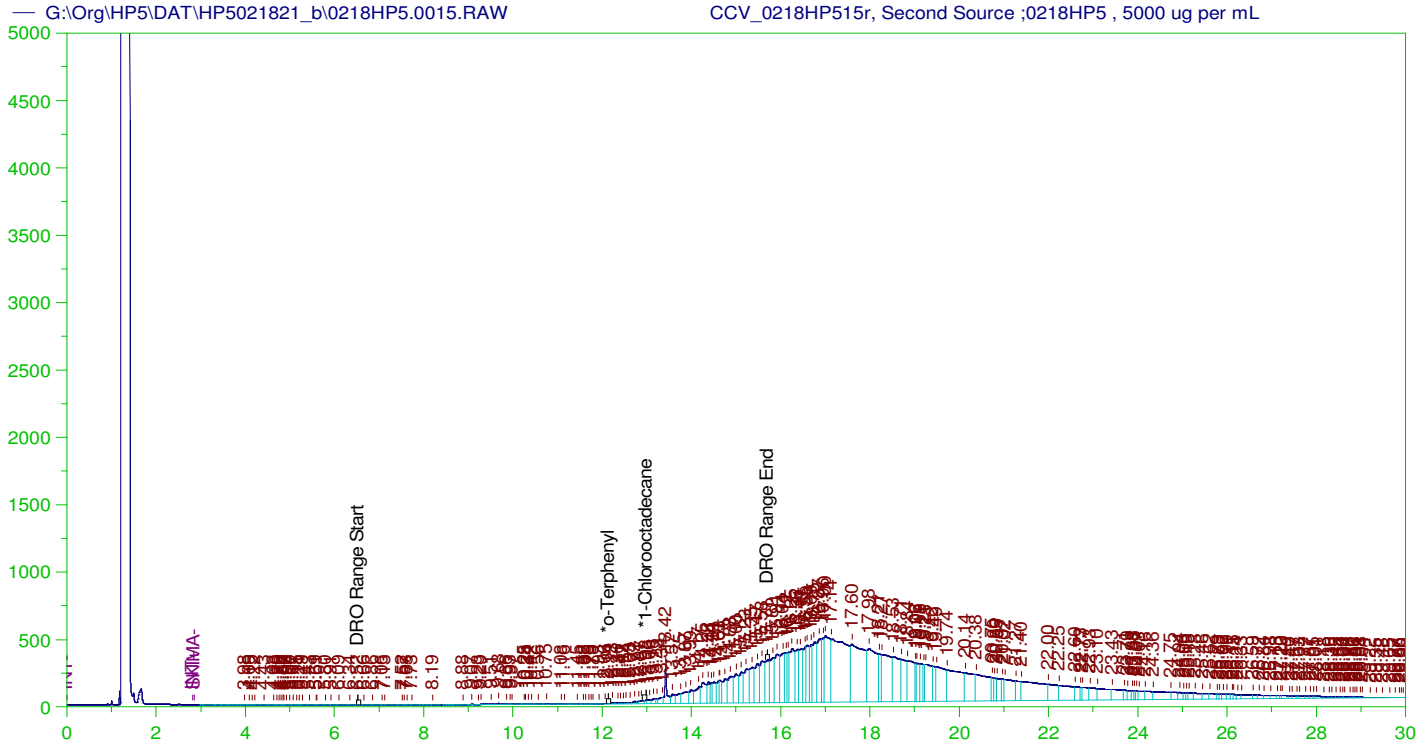
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0014.RAW
Date & Time Acquired: 2/18/2021 7:45:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.148 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.949 | 200. | . | . | - |

DRO Area:30445.24 DRO Amount: 1.033537
TEH Area:297634.4 TEH Amount: 10.10392

G:\org\HP5\dat\HP5021821_b\Review\014_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL
Raw File: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW
Date & Time Acquired: 2/18/2021 8:27:37 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | . | .19 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | - |

DRO Area:2.558549E+07 DRO Amount: 0.8964027
TEH Area:1.562544E+08 TEH Amount: 5.474465

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5.47 | .11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | . | .19 | 85-115 |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\015_CCV_0218HP515r_DR_OIL-021811-AA-L0.xls

| Write Sequence | Data File | Sample Nan | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis. |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis. |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.09.20 13:12:26 -06:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/11/2021 11:55:04 A**

Prep Batch **160213** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/12/2021 2:15:00 P**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MB-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| Start time: 12:16 PM, 10/11/2021. End time: 10/12/2021 at 7:00 AM. SGT was carried out on remainder of 0.9 mL sample by ALN on 10/14/2021. | | | | | | | | | | |
| LCS-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| LCS-RRO-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| All bottles were completely used and disposed of. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000957 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001AMS | Drinking Water | 2 | 500 | 0 | 0 | 1.00 | 0.002 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001AMSD | Drinking Water | 2 | 500 | 0 | 0 | 1.00 | 0.002 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2.Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002AMS-RRO | Drinking Water | 2 | 515 | 0 | 0 | 1.00 | 0.00194 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002AMSD-RRO | Drinking Water | 2 | 515 | 0 | 0 | 1.00 | 0.00194 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100824-001A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Client said to proceed with out of hold sample. | | | | | | | | | | |
| B21100827-003A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100828-001A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Lines 12-13 Start time: 12:47 PM, 10/11/2021. End time: 10/12/2021 at 7:00 AM. | | | | | | | | | | |
| B21100828-002A | Drinking Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100834-001A | Aqueous | 2 | 1010 | 0 | 0 | 1.00 | 0.00099 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Lines 14-16 Start time: 3:21 PM, 10/11/2021. End time: 10/12/2021 at 9:25 AM | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14354 | Dichloromethane EC119 | 8/3/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 10/10/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | all QC | 5g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/11/2021 11:55:04 A**

Prep Batch **160213** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/12/2021 2:15:00 P**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| B21100834-002A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| B21100834-003A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/11/2021 | 10/12/2021 |

| Number | Reagent Name | Exp Date | |
|---|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 | |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 | |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 | |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 | |
| 14354 | Dichloromethane EC119 | 8/3/2023 | |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 10/10/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | all QC | 5g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*13-Oct-21*

**Run ID** GCFID-HP5-B_211011B

**Run Start Date:** 10/11/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767356 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/13/2021 12:1 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.059366 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2131862 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767357 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 12:5 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.017043 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.226186 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767358 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 1:38: | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.79665 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 105% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.35982 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.220412 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767359 | LCS-160213 | HC-8015-DRO- | LCS-DOD | | 10/13/2021 3:47: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.25644 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 102% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.46345 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 110% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2109474 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767360 | MB-160213 | HC-8015-DRO- | MBLK | | 10/13/2021 4:29: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0749 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.221817 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 111% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767361 | B21100824-001 | HC-8015-DRO- | SAMP | | 10/13/2021 5:12: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0313208 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.190907 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 100% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.190907 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767362 | B21100827-001 | HC-8015-DRO- | SAMP | | 10/13/2021 6:38: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.2248985 | | 0 | 0 | 0 | 0.0372273 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.17043886 | | 0 | 0 | 0 | 0.0841203 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.6724572 | | 0 | 0 | 0 | 0.0716793 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1375347 | | 0.1914 | 0 | 0 | 0.0004106 | 0.002 | 0 | 72% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767363 | B21100827-002 | HC-8015-DRO- | SAMP | | 10/13/2021 8:47: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.2302286 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.16414309 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.6783934 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1010864 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 53% | 56 | 125 | 0% | S |
| TEH(Oil Range) | X | mg/L | | 0.44483149 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767364 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/13/2021 10:1 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3211.686 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3928.242 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 207.1025 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103551% | 50 | 150 | 0% | S |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3211.686 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

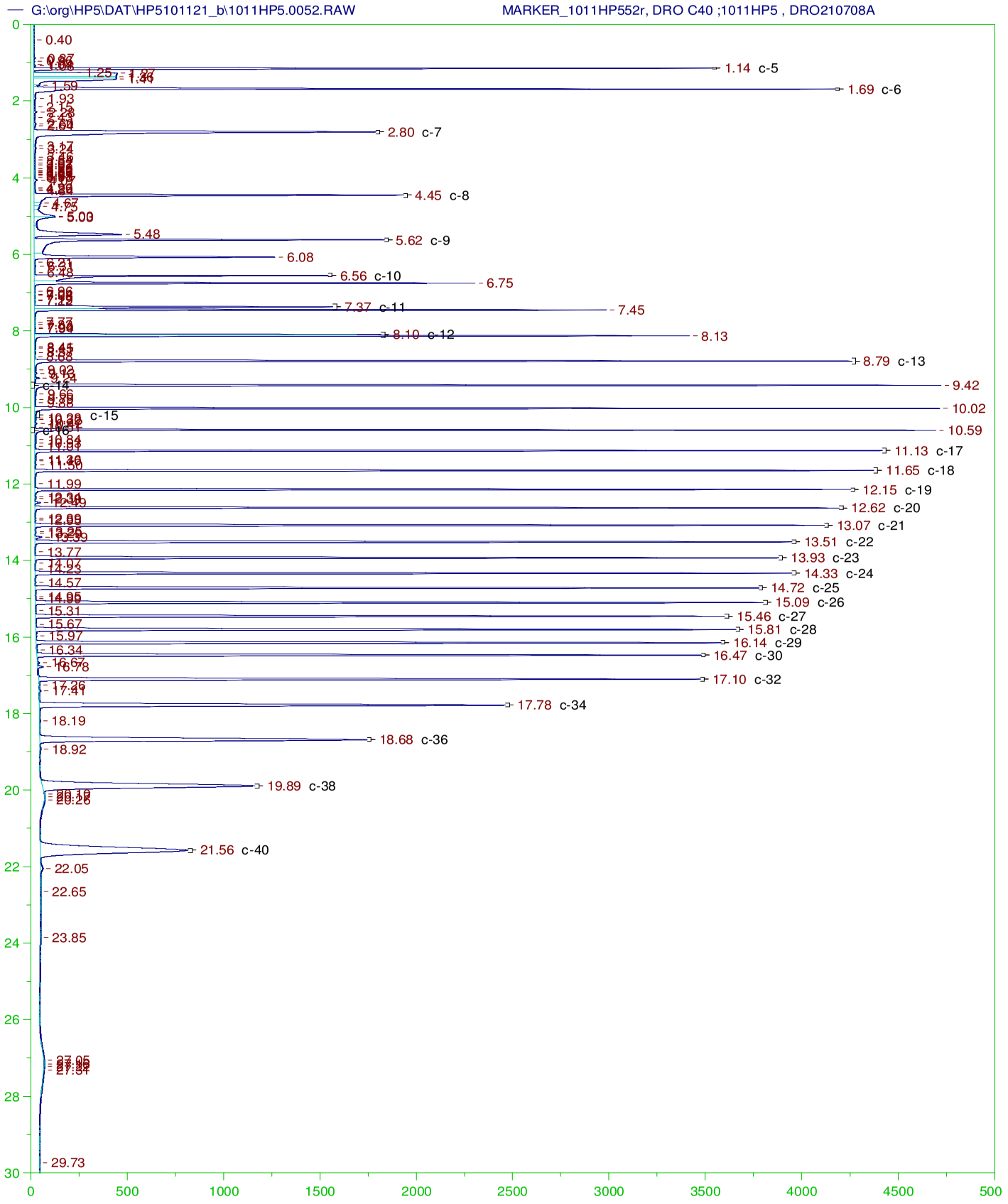
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767365 | CCV_1011HP56 | HC-8015-DRO- | CCV | | 10/13/2021 10:5 | 1 | R368594 | | 0 | 0 | |

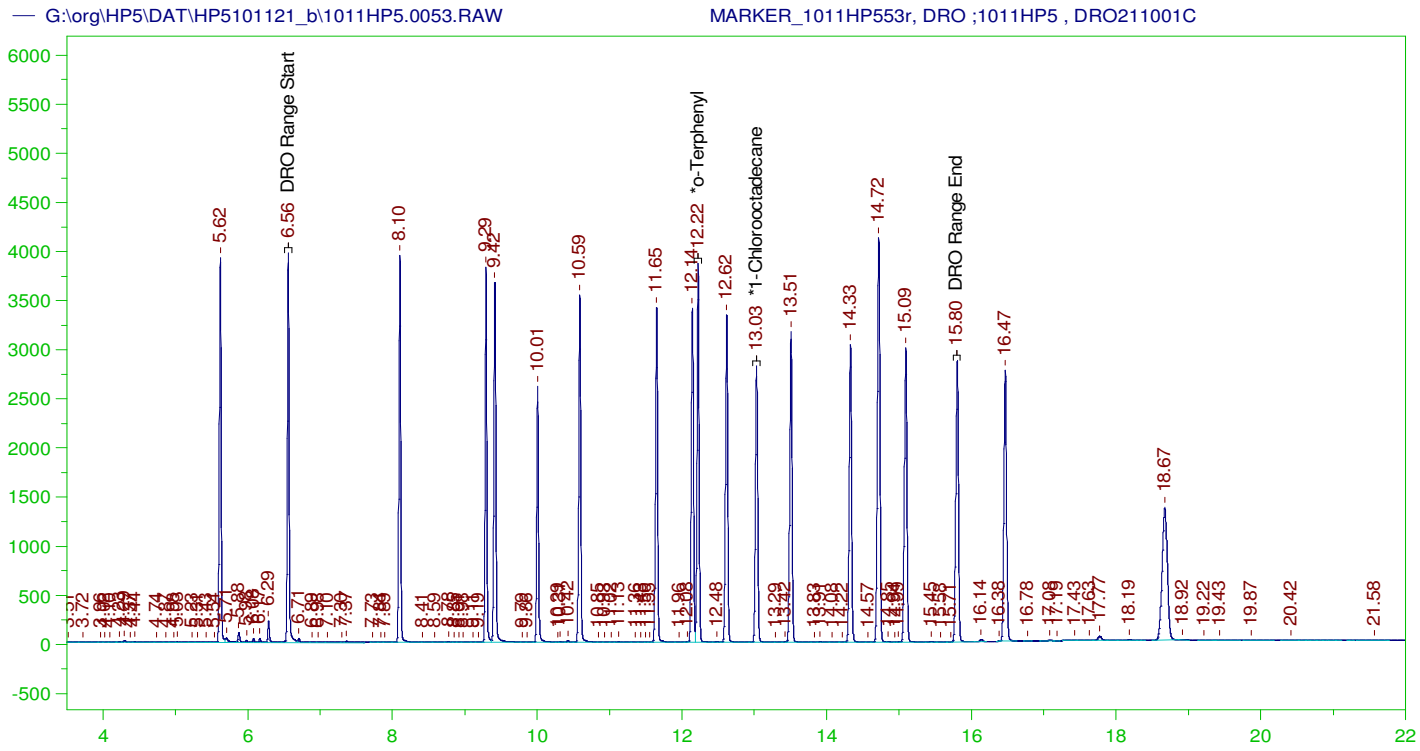
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.045149 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 101% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2240021 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 112% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767366 | CCV_1011HP56 | HC-8015-DRO- | CCV | | 10/13/2021 11:3 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.93329 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.4674 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 103% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2084819 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.56r | DCM-Baseline Check-V56 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.57r | DCM-Baseline Check-V57 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.58r | LCS-160213 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.59r | MB-160213 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.60r | B21100824-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.61r | DCM-Baseline Check-V61 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.62r | B21100827-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1045 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.64r | DCM-Baseline Check-V64 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.65r | B21100827-002A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.66r | MARKER_1011HP566r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.67r | MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.68r | CCV_1011HP568r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.69r | CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\org\HP5\DAT\HP5101121_b\1011HP5.0052.RAW
MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A
0.40
1.14 c-5
1.69 c-6
2.80 c-7
4.45 c-8
5.48
5.62 c-9
6.08
6.56 c-10
6.75
7.37 c-11
7.45
8.10 c-12
8.13
8.79 c-13
9.42
10.02
10.59
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.09 c-26
15.46 c-27
15.81 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
19.89 c-38
21.56 c-40
29.73
0
500
1000
1500
2000
2500
3000
3500
4000
4500
500
G:\org\HP5\dat\HP5101121_b\Review\052_MARKER_1011HP552r_CSC211011.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

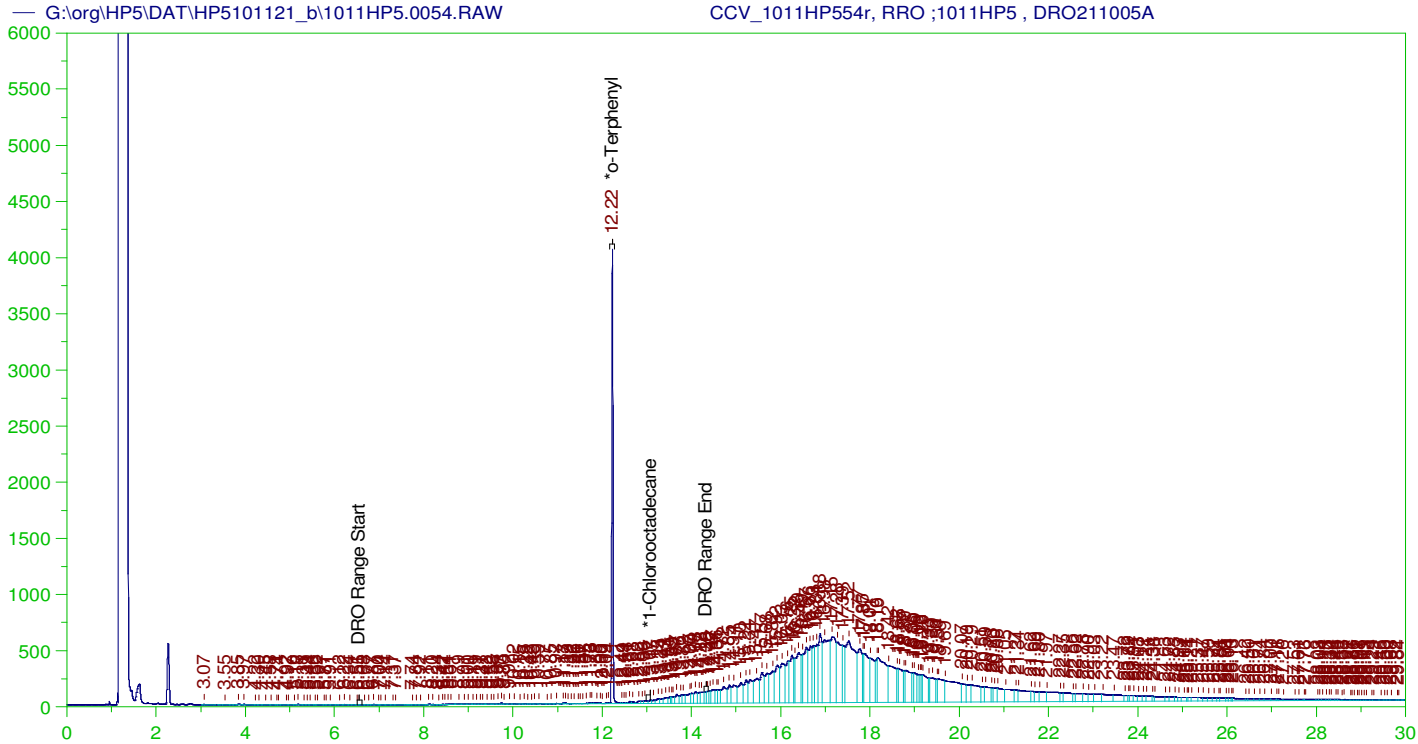
Sample Name: MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0053.RAW
Date & Time Acquired: 10/13/2021 12:12:14 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 213.186 | 106.59 | - |
| *1-Chlorooctadecane | 13.031 | 200. | 172.732 | 86.37 | - |

DRO Area:9.775298E+07 DRO Amount: 3318.46
TEH Area:1.195781E+08 TEH Amount: 4059.366

G:\org\HP5\dat\HP5101121_b\Review\053_MARKER_1011HP553r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | - |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | - |

DRO Area:6639596 DRO Amount: 232.6221
TEH (Oil Range) Area:1.431985E+08 TEH (Oil Range) Amount: 5017.043

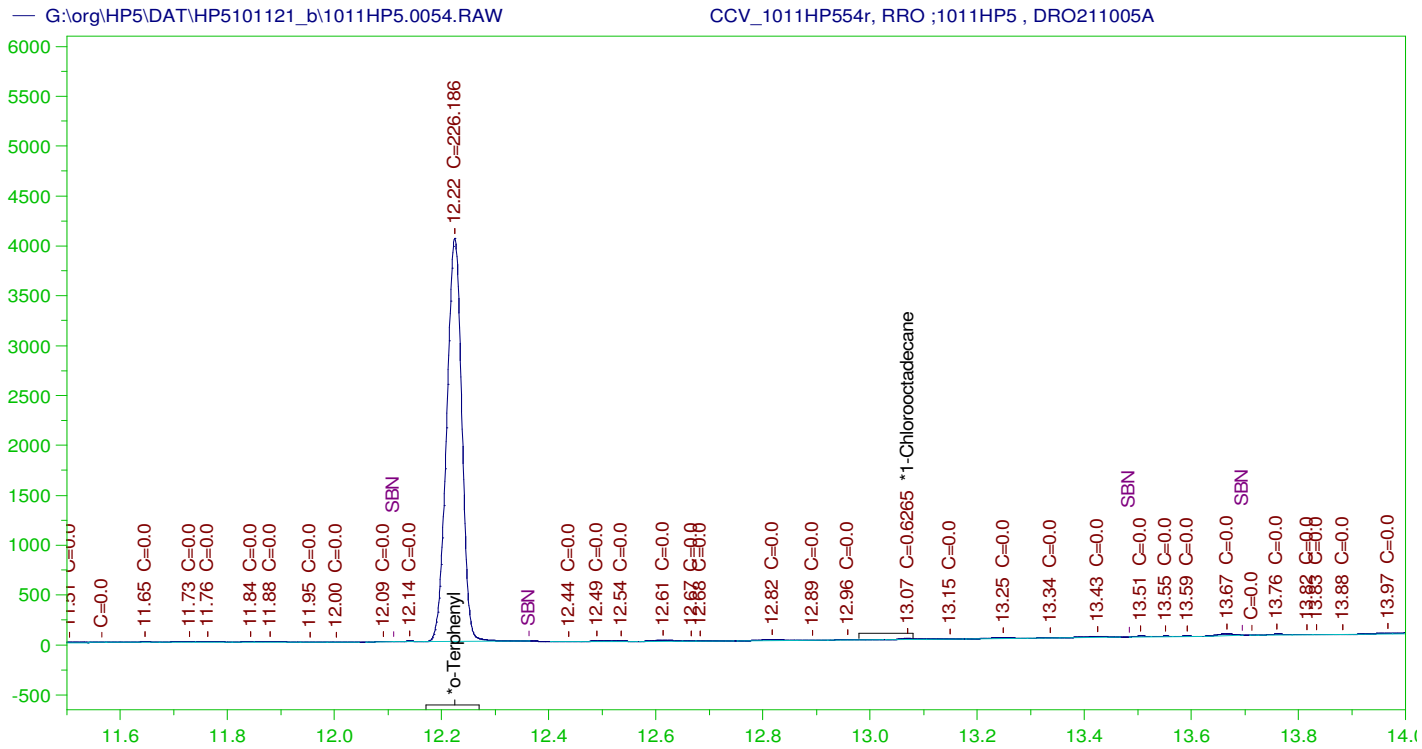
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5017.04 | 100.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | 85-115 |

AMN 10/20/2021

G:\org\HP5\dat\HP5101121_b\Review\054_CCV_1011HP554r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | - |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | - |

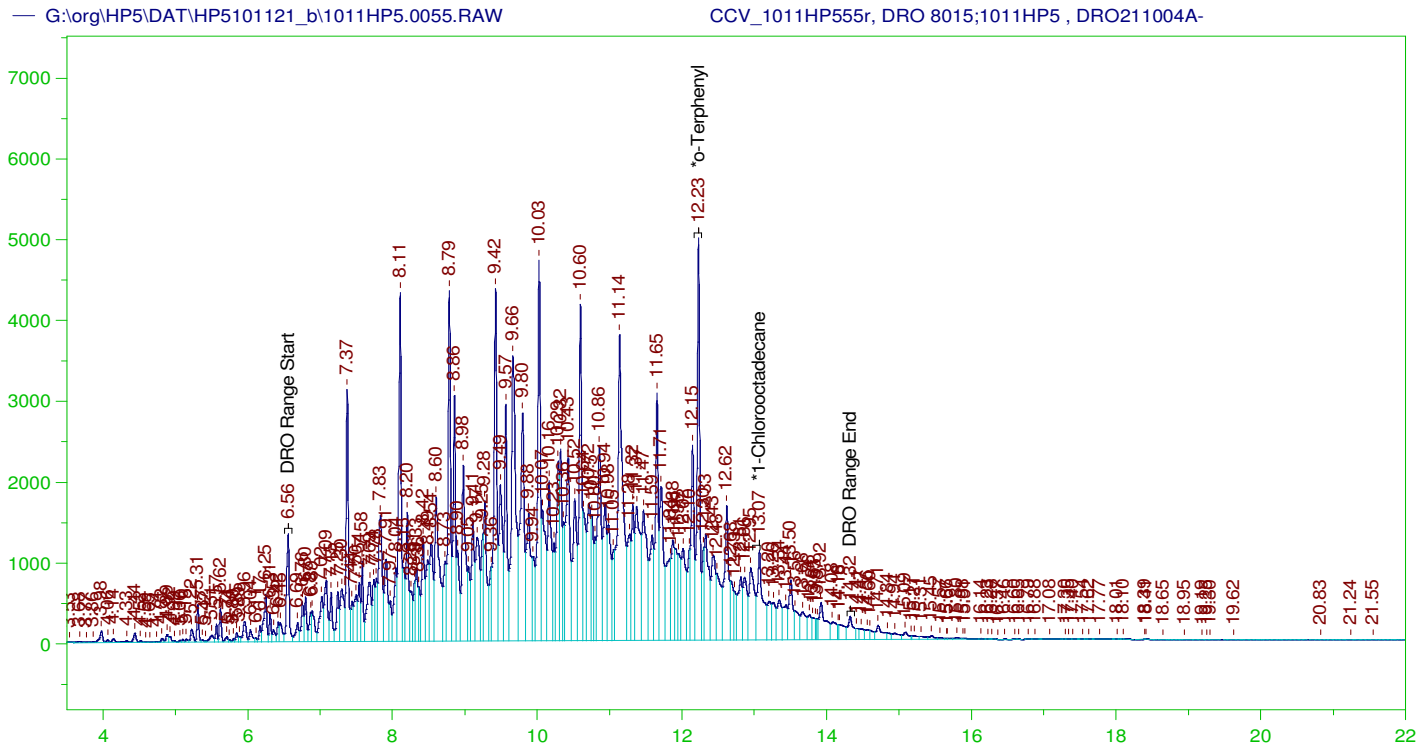
DRO Area:914620.3 DRO Amount: 32.04426
TEH Area:2179492 TEH Amount: 76.35976

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 76.36 | 1.53 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\054_CCV_1011HP554r_DS_OIL-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | - |

DRO Area:4.653271E+08 DRO Amount: 15796.65
TEH Area:4.819167E+08 TEH Amount: 16359.82

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16359.82 | 109.07 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | 85-115 |

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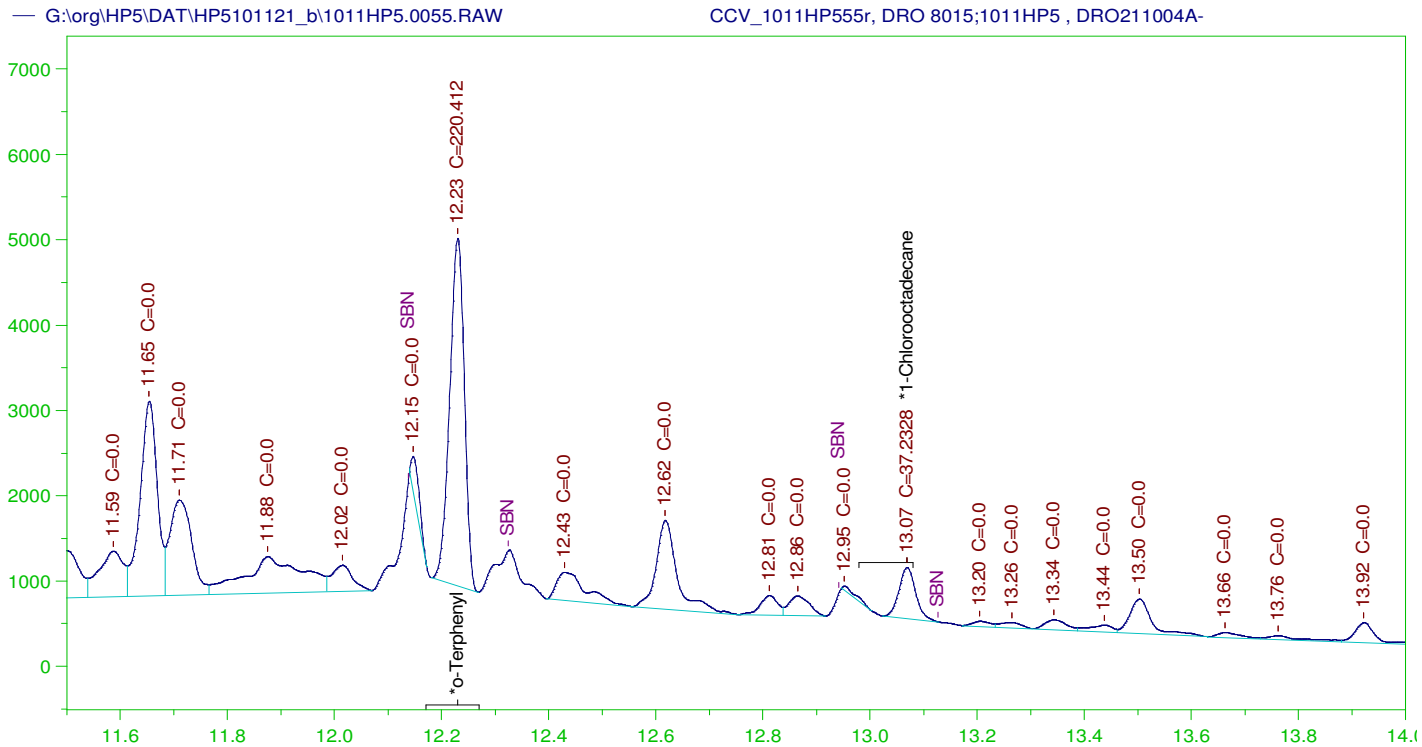


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | - |

DRO Area:2.582346E+08 DRO Amount: 8766.394
TEH Area:2.681562E+08 TEH Amount: 9103.206

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9103.21 | 60.69 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | 85-115 |

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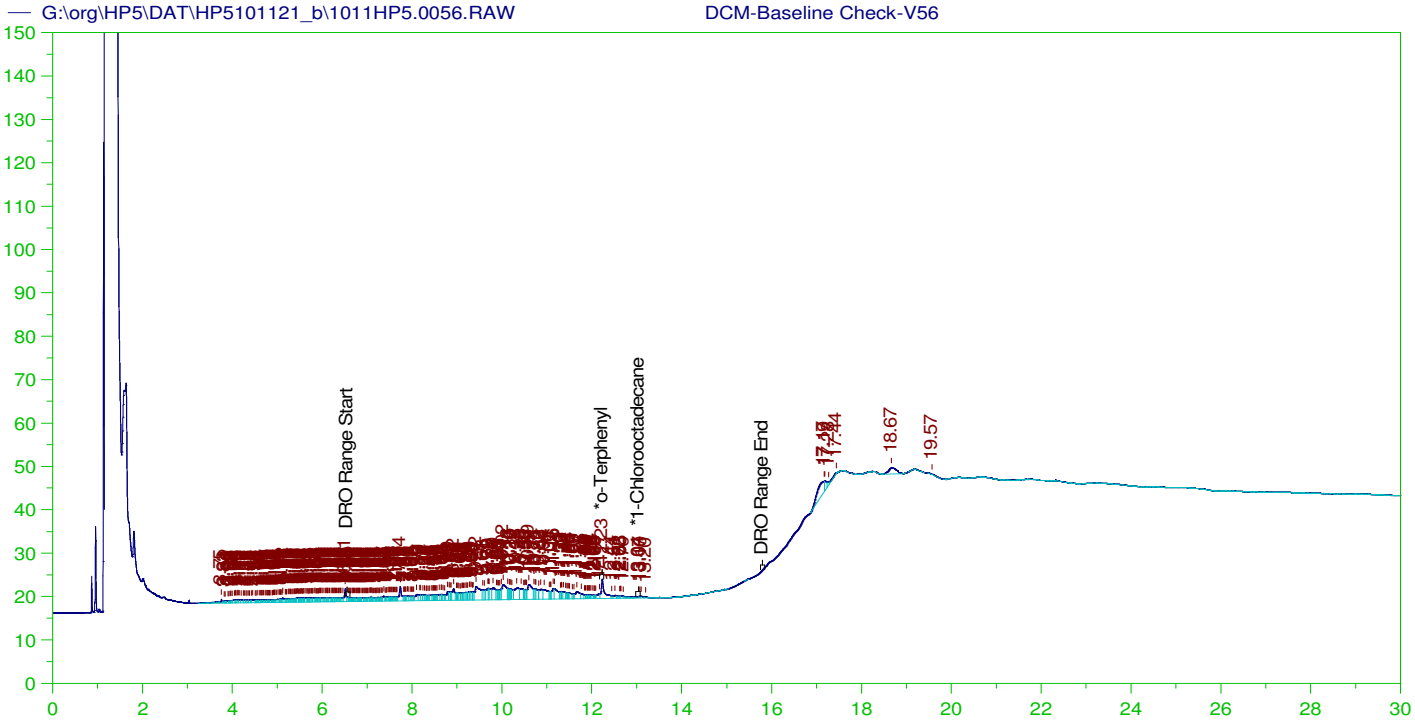



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

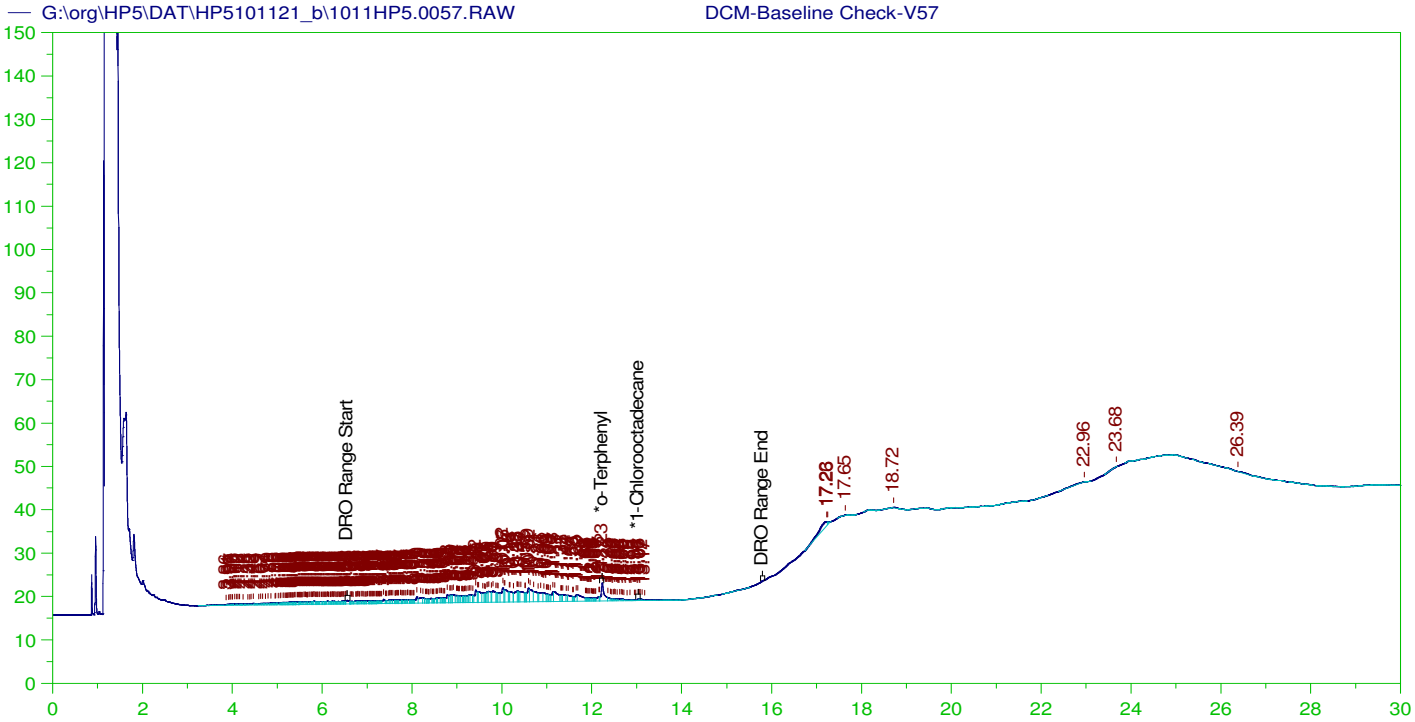
Sample Name: DCM-Baseline Check-V56
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0056.RAW
Date & Time Acquired: 10/13/2021 2:21:24 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | .663 | .33 | - |
| *1-Chlorooctadecane | 13.04 | 200. | .027 | .01 | - |

DRO Area:569787.8 DRO Amount: 19.34282
TEH Area:773369.7 TEH Amount: 26.25389

G:\org\HP5\dat\HP5101121_b\Review\056_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V57
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0057.RAW
Date & Time Acquired: 10/13/2021 3:04:13 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | .559 | .28 | - |
| *1-Chlorooctadecane | 13.035 | 200. | .033 | .02 | - |

DRO Area:519320.5 DRO Amount: 17.62959
TEH Area:643196.8 TEH Amount: 21.83486

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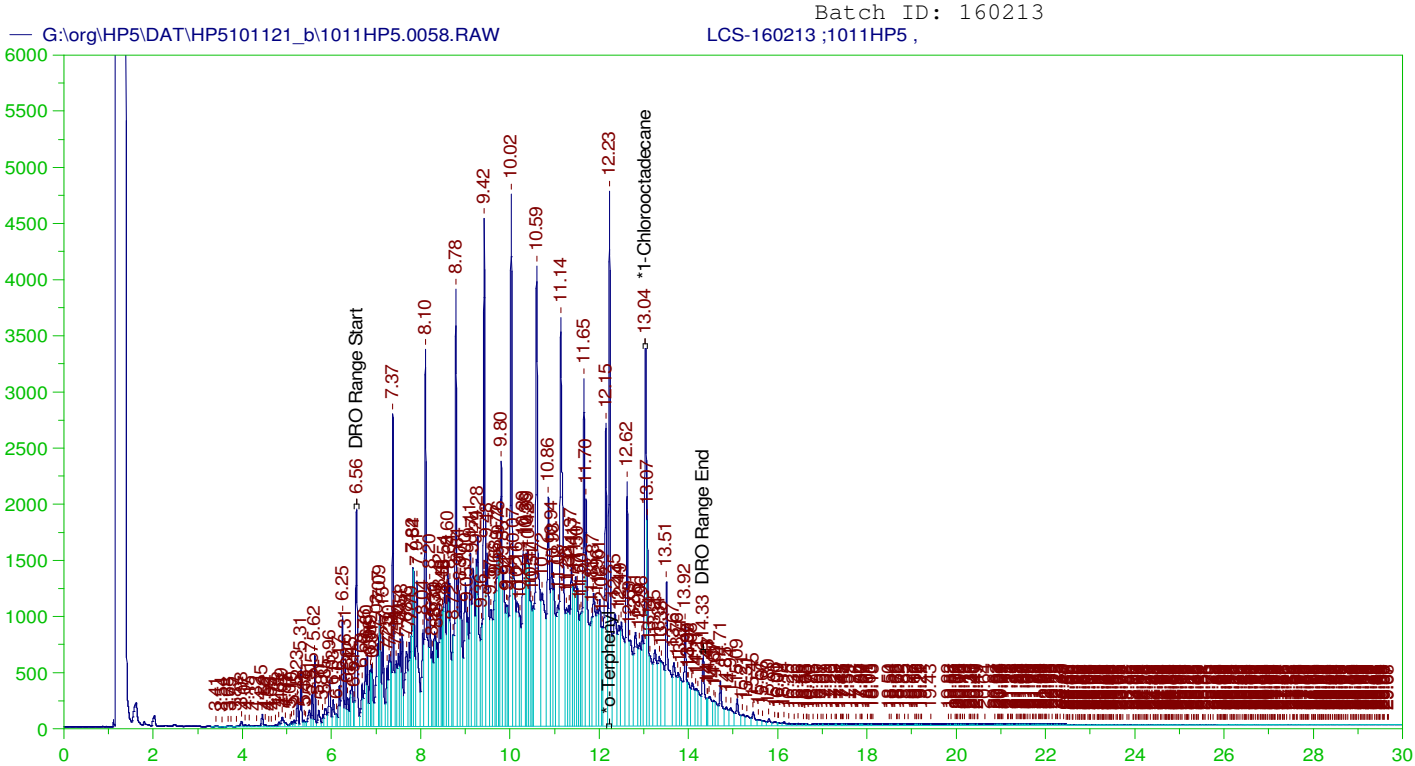
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0058.RAW
Date & Time Acquired: 10/13/2021 3:47:06 AM
Method File: G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .364 | 181.98 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .265 | 132.56 | - |

DRO Area:4.494139E+08 DRO Amount: 15.25644
TEH Area:4.849694E+08 TEH Amount: 16.46345

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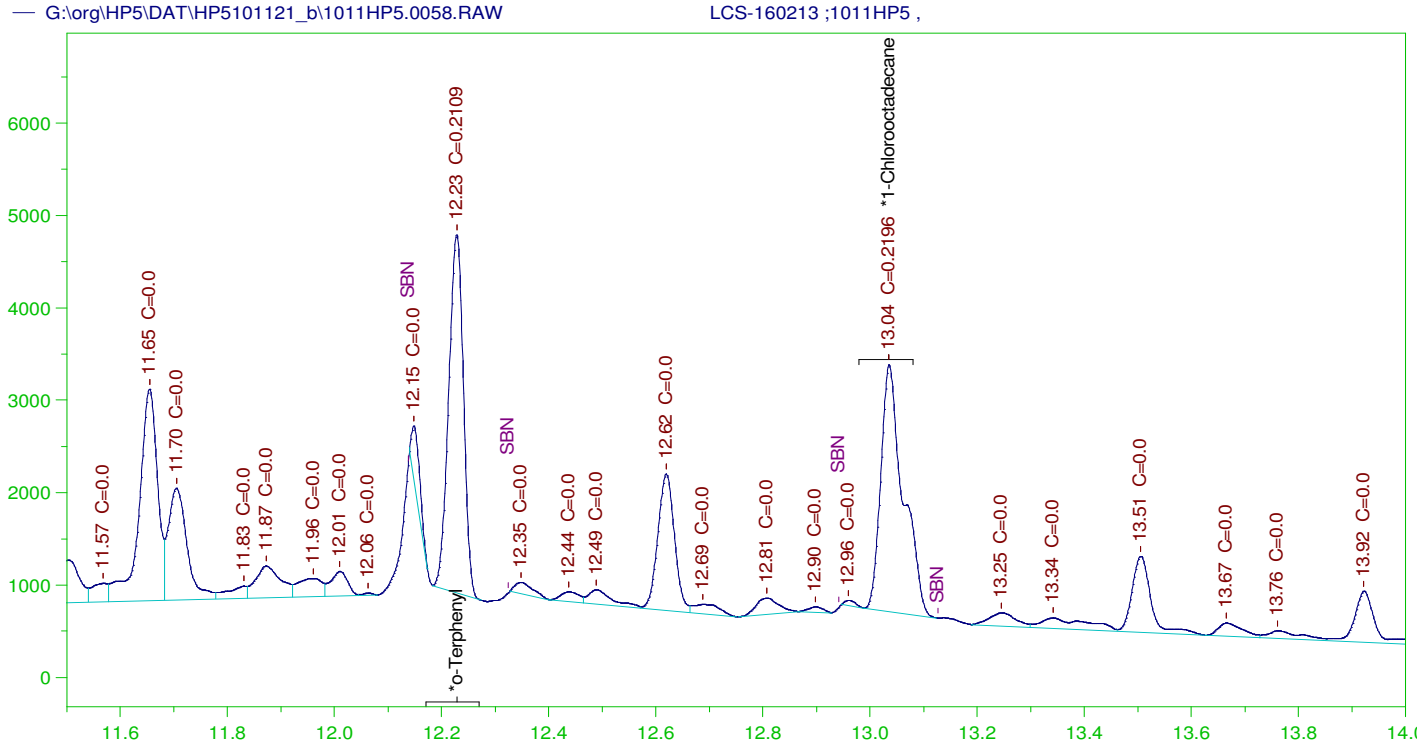
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0058.RAW
Date & Time Acquired: 10/13/2021 3:47:06 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .211 | 105.47 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .22 | 109.8 | - |

DRO Area:2.202292E+08 DRO Amount: 7.47621
TEH Area:2.340806E+08 TEH Amount: 7.946428

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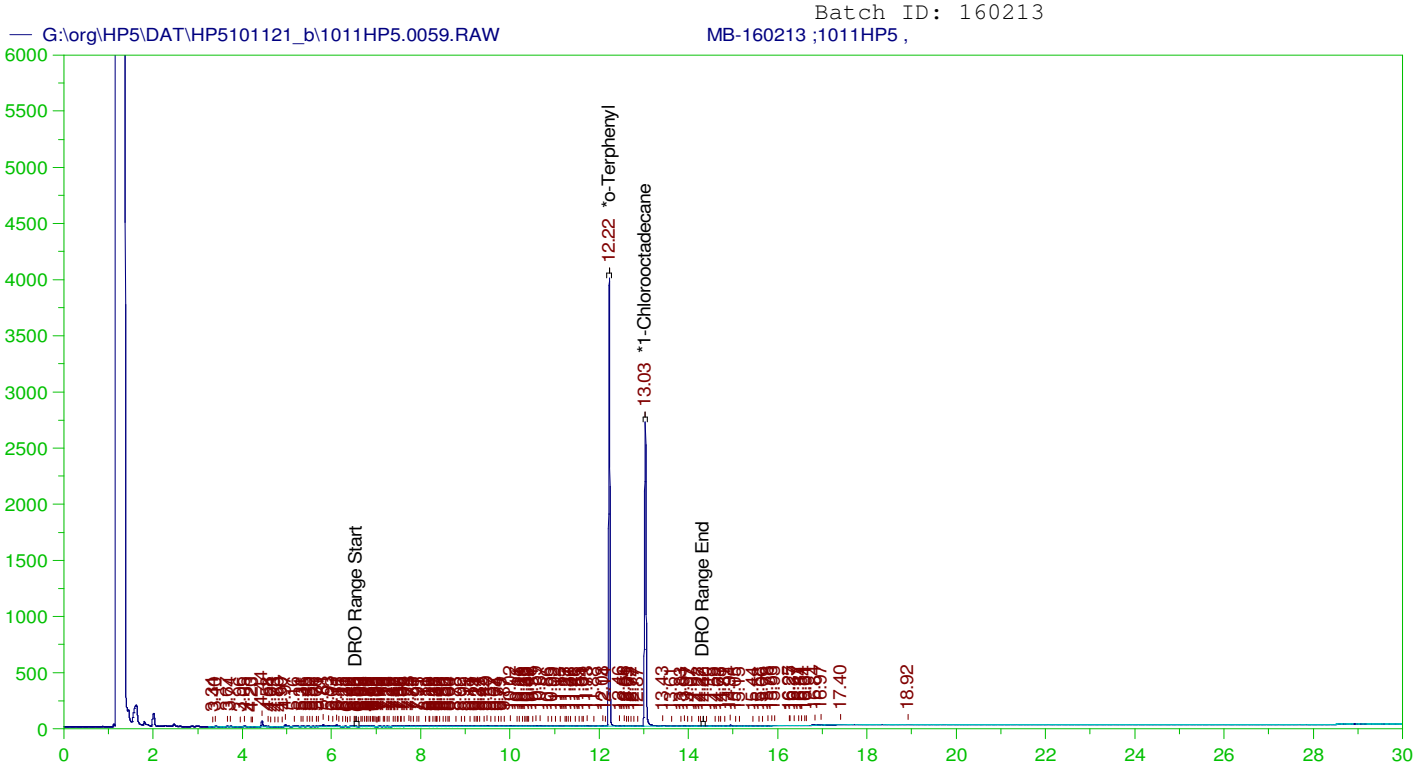
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

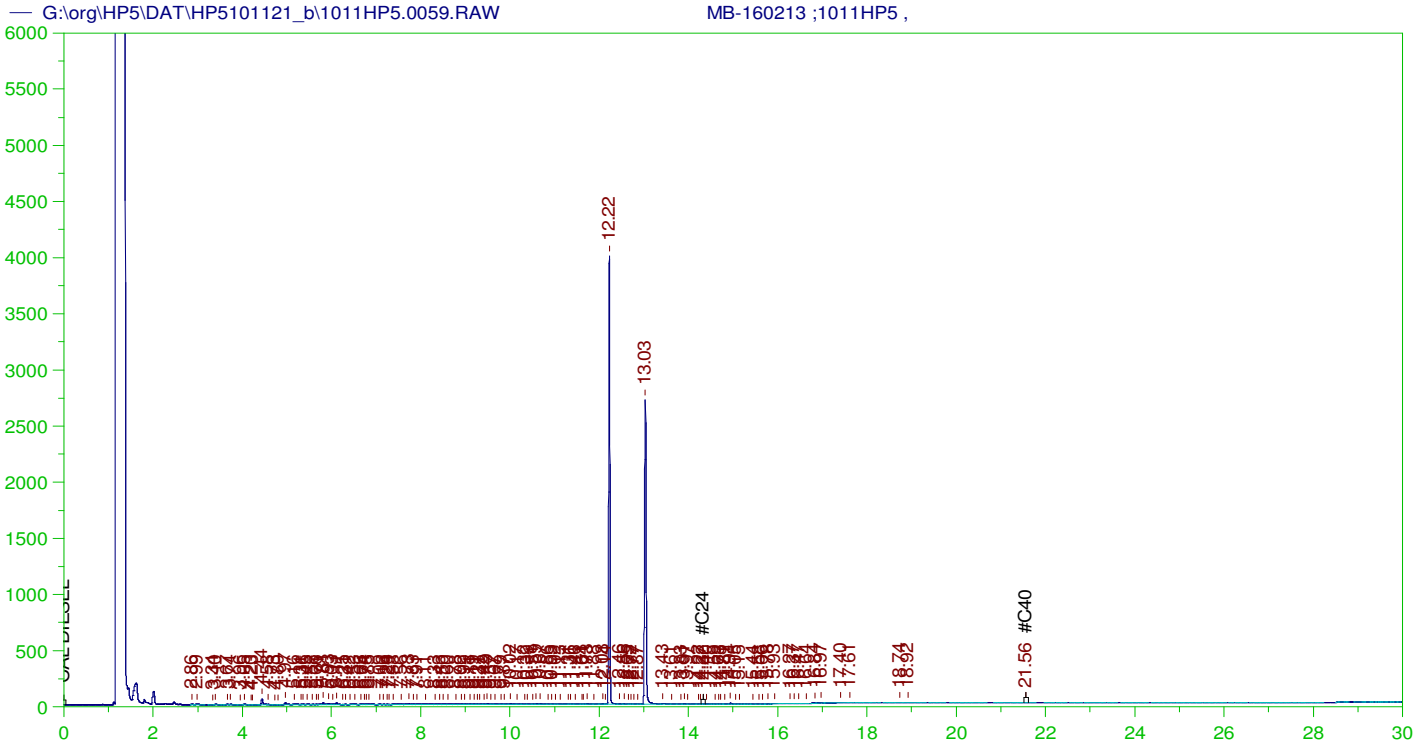
Sample Name: MB-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0059.RAW
Date & Time Acquired: 10/13/2021 4:29:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .2 | .222 | 110.91 | - |
| *1-Chlorooctadecane | 13.03 | .2 | .175 | 87.29 | - |

DRO Area:691525.5 DRO Amount: 0.0234755
TEH Area:1300256 TEH Amount: 4.414031E-02

G:\org\HP5\dat\HP5101121_b\Review\059_MB-160213_DR_8015-C24-HS-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0059.RAW
Date & Time Acquired: 10/13/2021 4:29:58 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

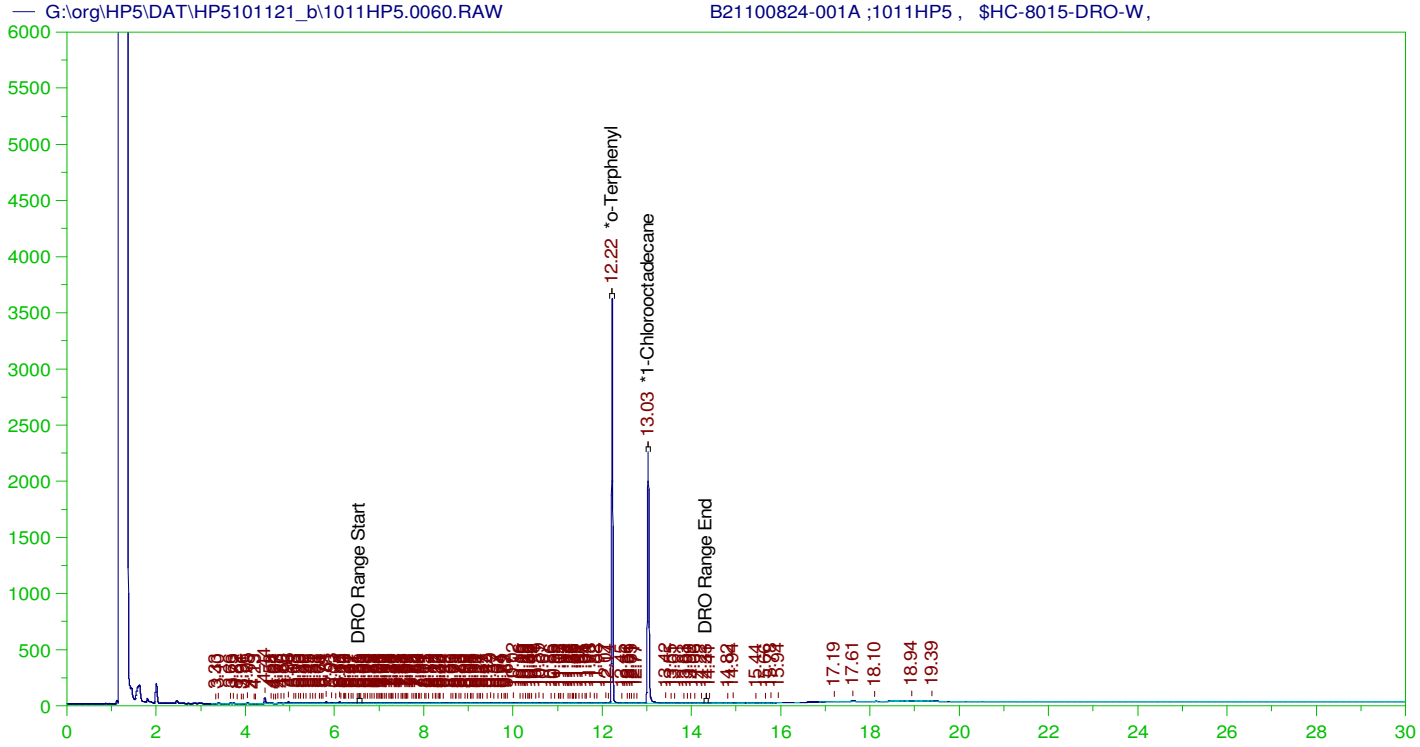
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:160534.3 RRO AMOUNT: 5.624414E-03

G:\org\HP5\dat\HP5101121_b\Review\059_MB-160213_DR_OIL-S-AJ-L%.xls

**ERH1778 (Pre-Chlorination RHSF)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW B21100824-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100824-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW
Date & Time Acquired: 10/13/2021 5:12:46 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .191 | 100.23 | - |
| *1-Chlorooctadecane | 13.028 | .19 | .139 | 73.23 | - |

DRO Area:655430.4 DRO Amount: 2.119063E-02
TEH Area:1210697 TEH Amount: 3.914286E-02

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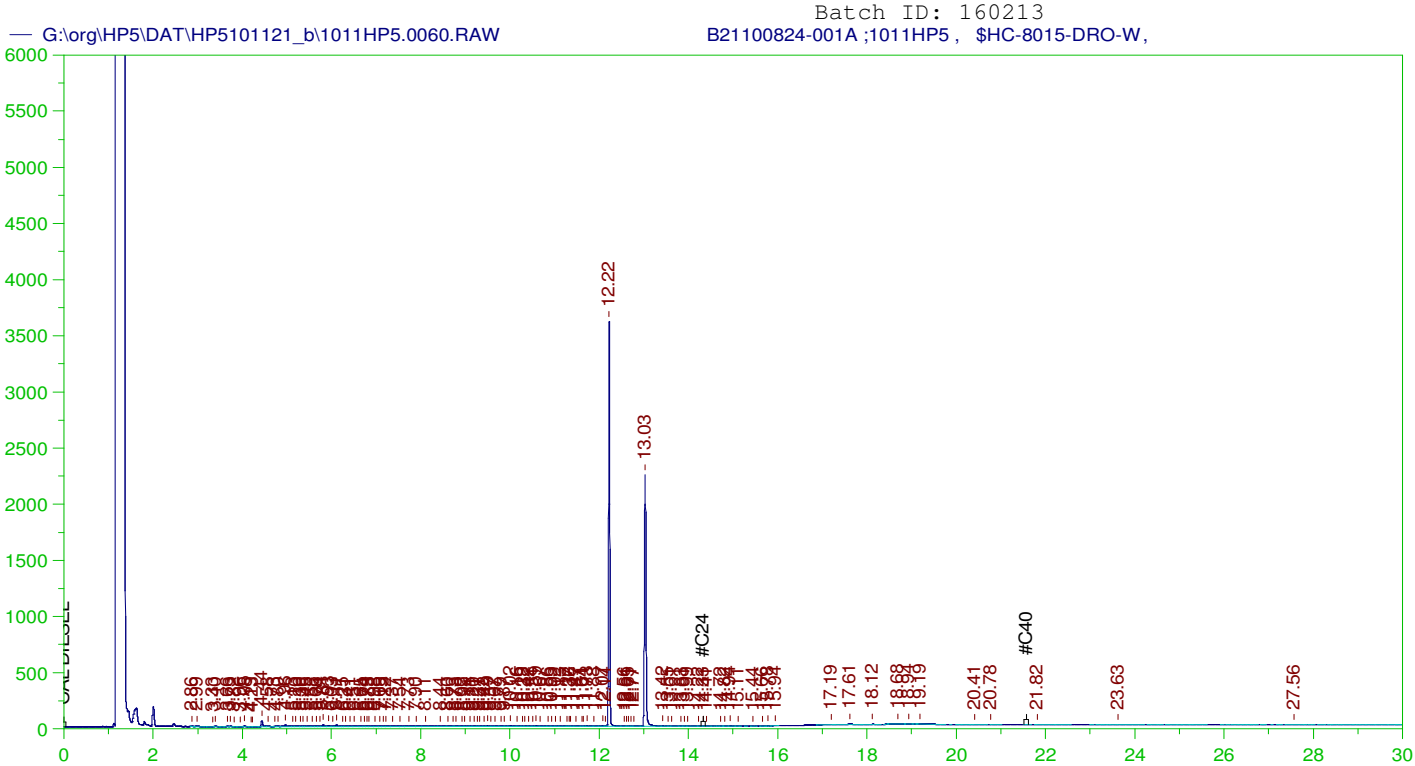
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100824-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW
Date & Time Acquired: 10/13/2021 5:12:46 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

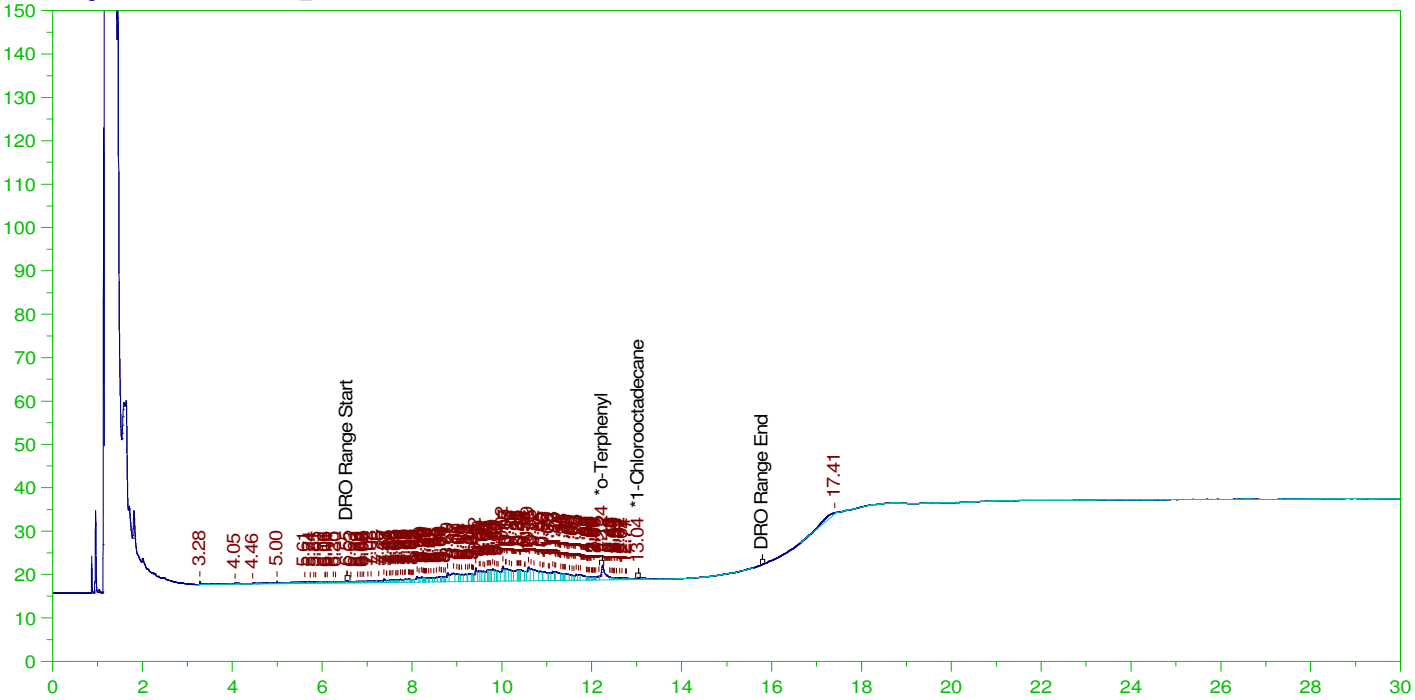
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:101816.1 RRO AMOUNT: 3.397321E-03

G:\org\HP5\dat\HP5101121_b\Review\060_B21100824-001A_DR_OIL-S-AJ-L%.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0061.RAW B21100827-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0061.RAW
Date & Time Acquired: 10/13/2021 5:55:48 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.237 | .191 | .001 | .3 | - |
| *1-Chlorooctadecane | 13.037 | .191 | . | .03 | - |

DRO Area:486628.5 DRO Amount: 0.0158084
TEH Area:550572.7 TEH Amount: 1.788566E-02

G:\org\HP5\dat\HP5101121_b\Review\061_B21100827-001A_DR_8015-HS-LEXP.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

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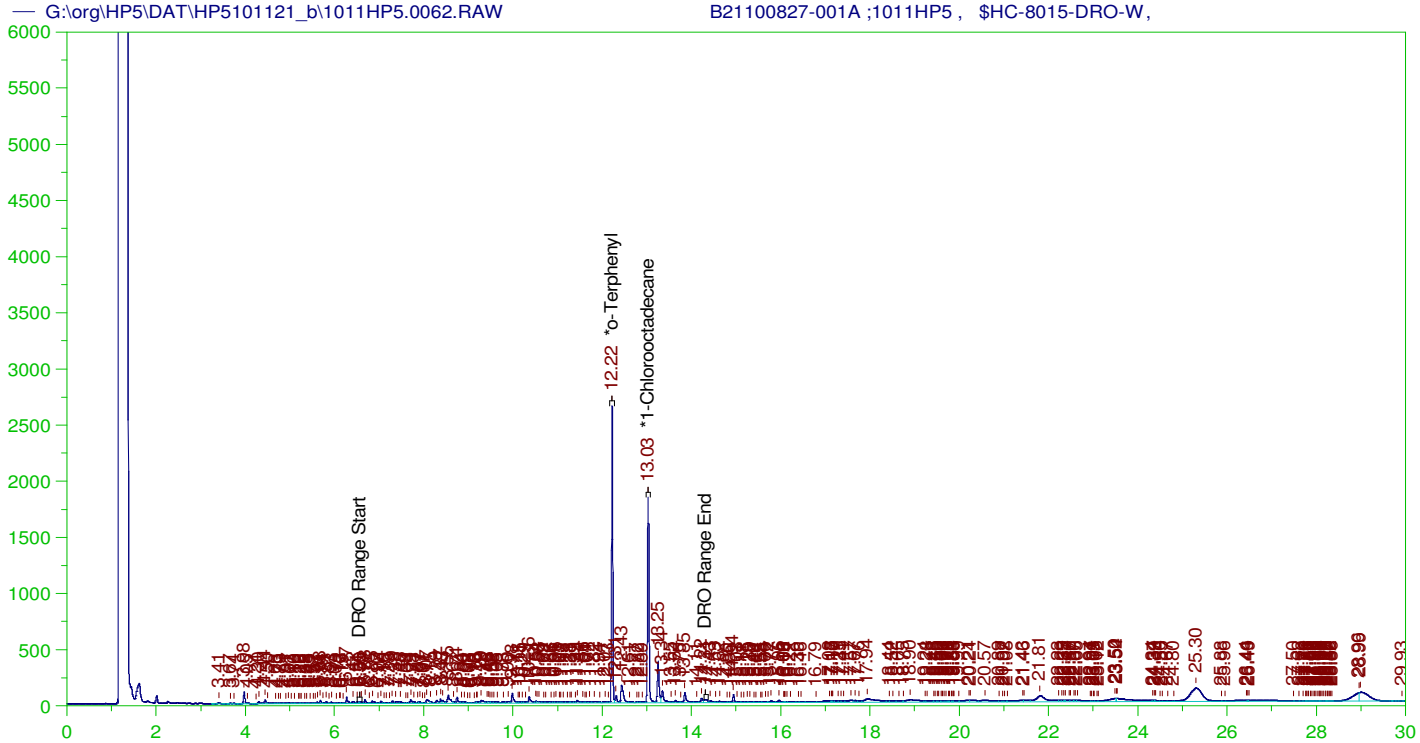



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

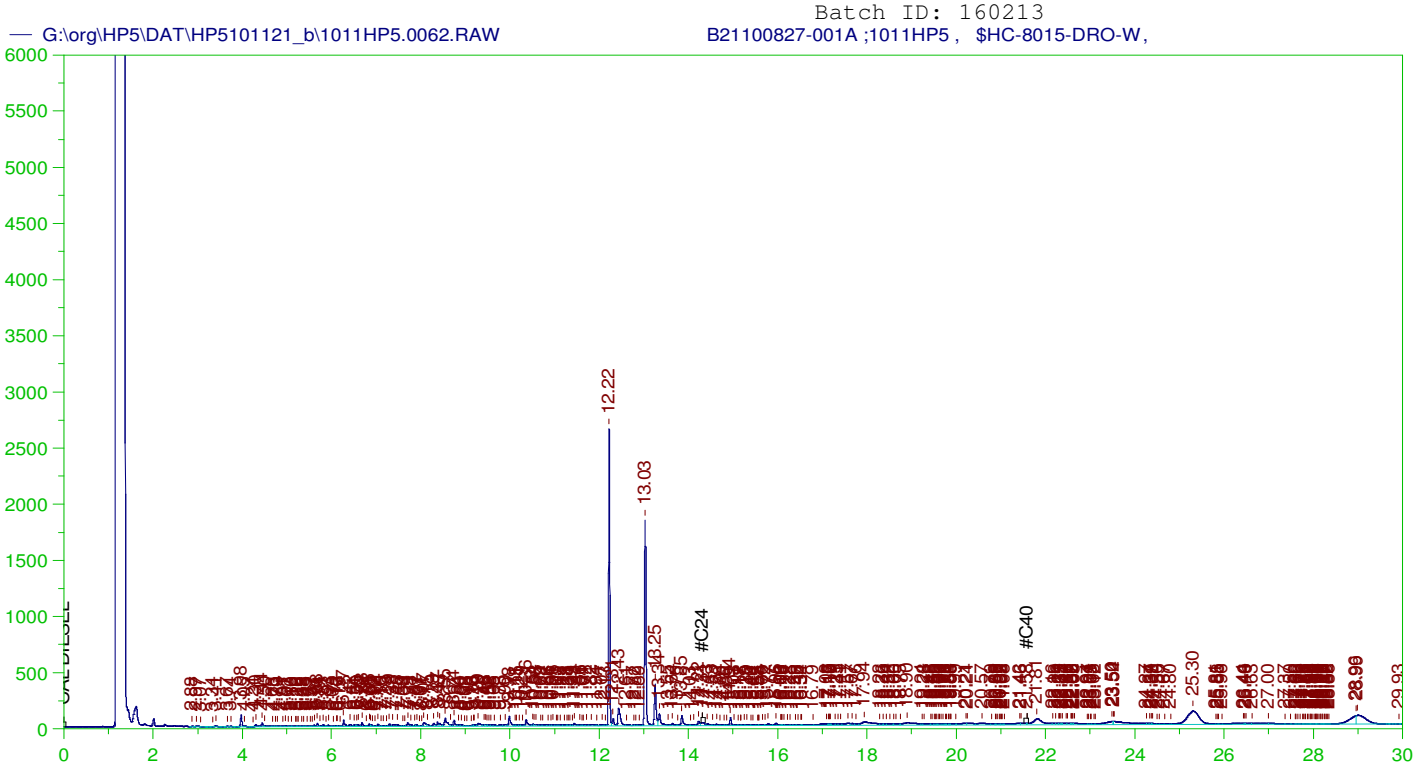
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.22 | .191 | .14 | 73.06 | - |
| *1-Chlorooctadecane | 13.028 | .191 | .111 | 58.04 | - |

DRO Area:6923030 DRO Amount: 0.2248985
TEH Area:2.070019E+07 TEH Amount: 0.6724572

G:\org\HP5\dat\HP5101121_b\Review\062_B21100827-001A_D3_8015-101162-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

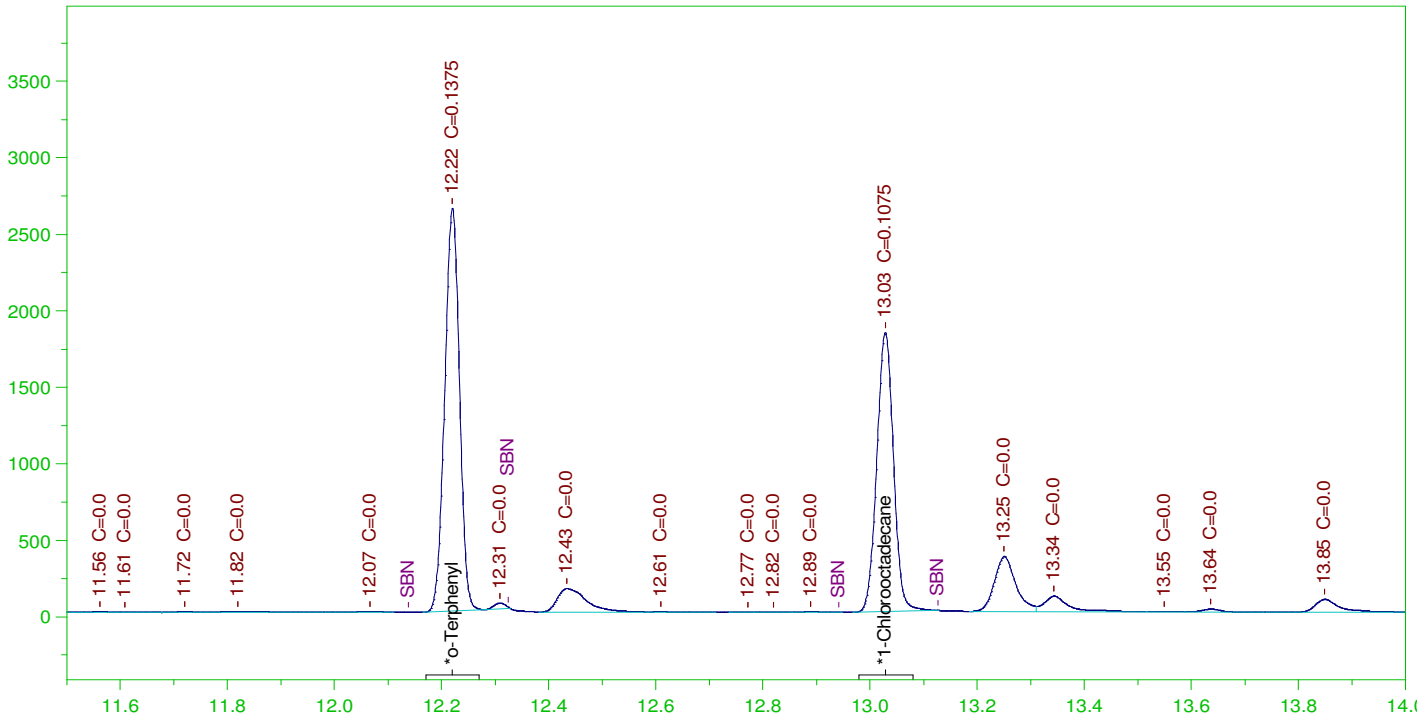
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:5083649 RRO AMOUNT: 0.1704389

**ERH1767 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW B21100827-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

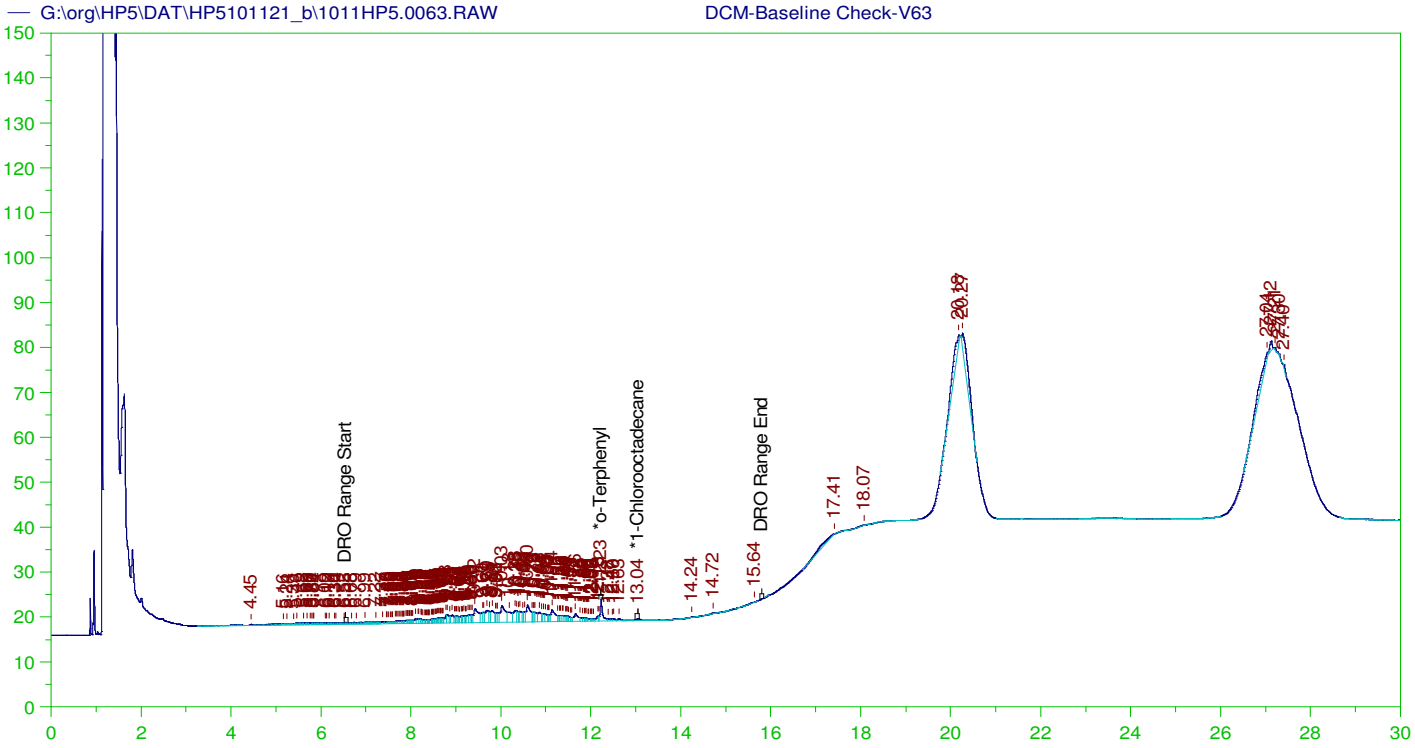
Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.22 | .191 | .138 | 71.86 | - |
| *1-Chlorooctadecane | 13.028 | .191 | .107 | 56.17 | - |

DRO Area:5915212 DRO Amount: 0.1921589
TEH Area:6878895 TEH Amount: 0.2234647

G:\org\HP5\dat\HP5101121_b\Review\062_B21100827-001A_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

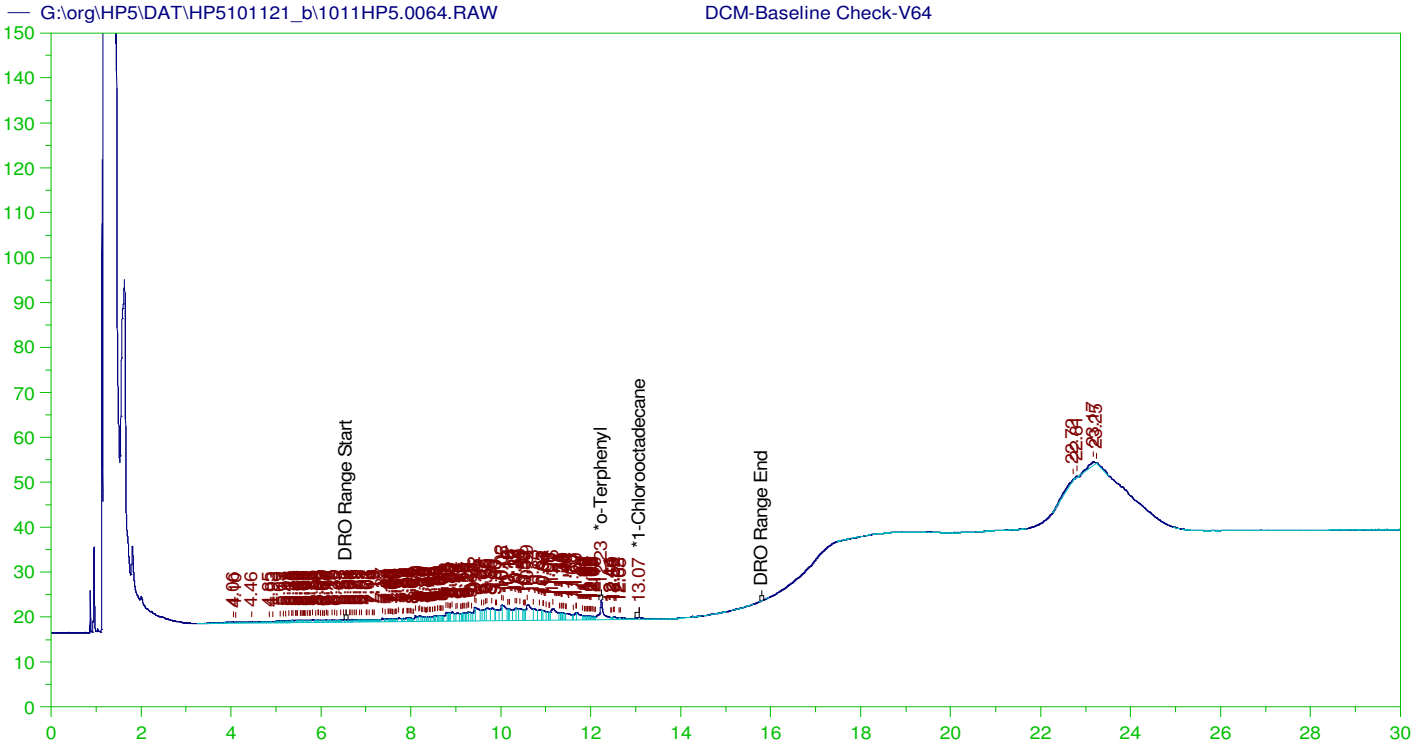
Sample Name: DCM-Baseline Check-V63
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0063.RAW
Date & Time Acquired: 10/13/2021 7:21:30 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | 200. | .541 | .27 | - |
| *1-Chlorooctadecane | 13.044 | 200. | .092 | .05 | - |

DRO Area:461835.7 DRO Amount: 15.67812
TEH Area:700402.4 TEH Amount: 23.77685

G:\org\HP5\dat\HP5101121_b\Review\063_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V64
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0064.RAW
Date & Time Acquired: 10/13/2021 8:04:19 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

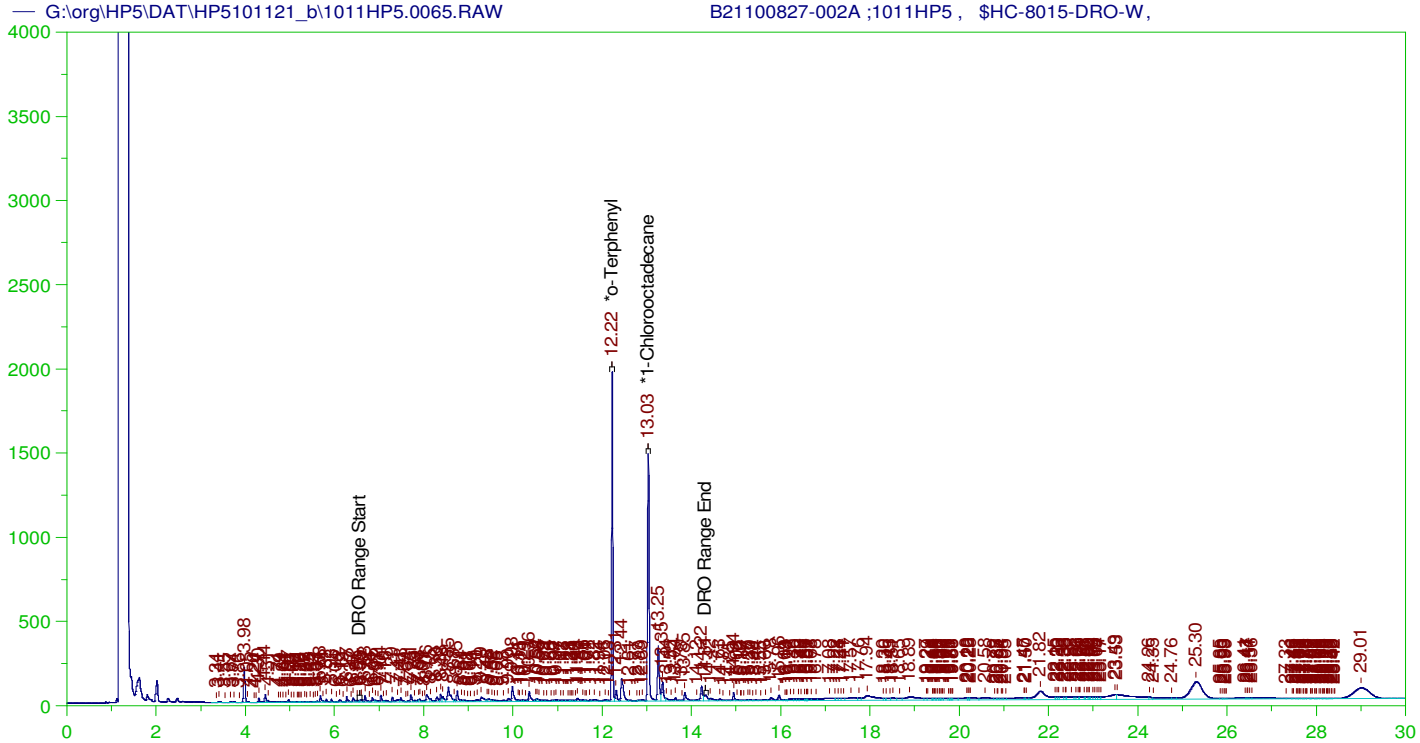
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | .767 | .38 | - |
| *1-Chlorooctadecane | 13.073 | 200. | .104 | .05 | - |

DRO Area:512970.4 DRO Amount: 17.41401
TEH Area:603912.3 TEH Amount: 20.50126

G:\org\HP5\dat\HP5101121_b\Review\064_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1772 (RHMW12A)** Batch ID: 160213

G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW B21100827-002A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .103 | 54.07 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .089 | 46.74 | - |

DRO Area:7121018 DRO Amount: 0.2302286
TEH Area:2.098284E+07 TEH Amount: 0.6783934

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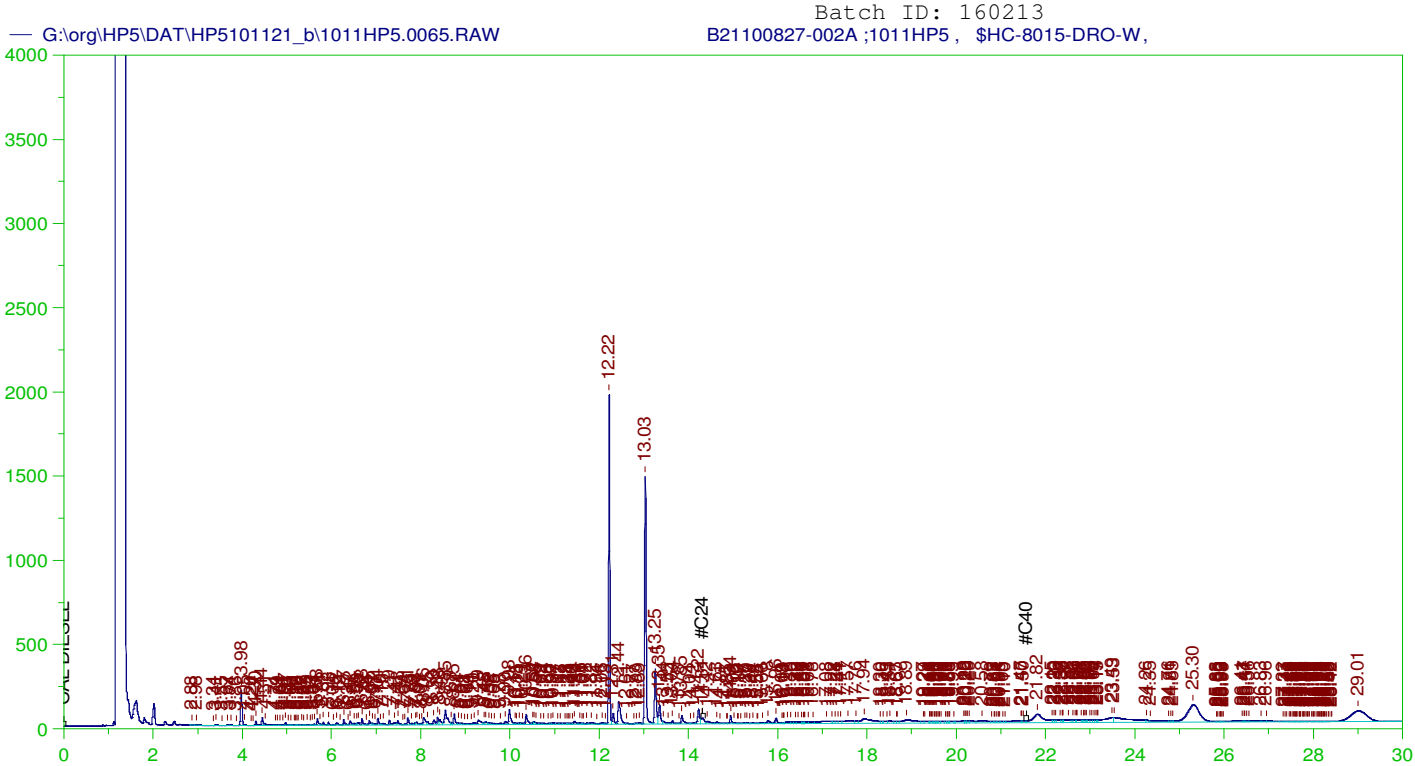
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

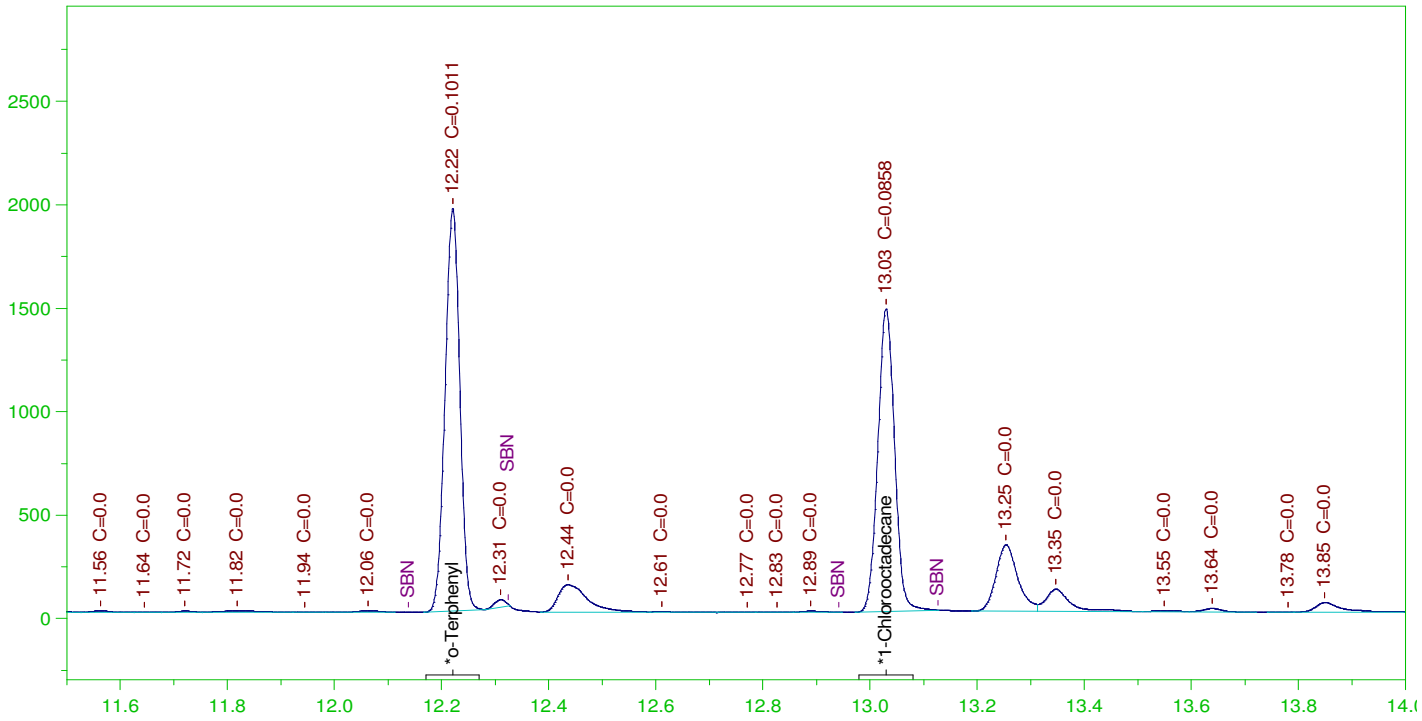
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:4919291 RRO AMOUNT: 0.1641431

**ERH1772 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW B21100827-002A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

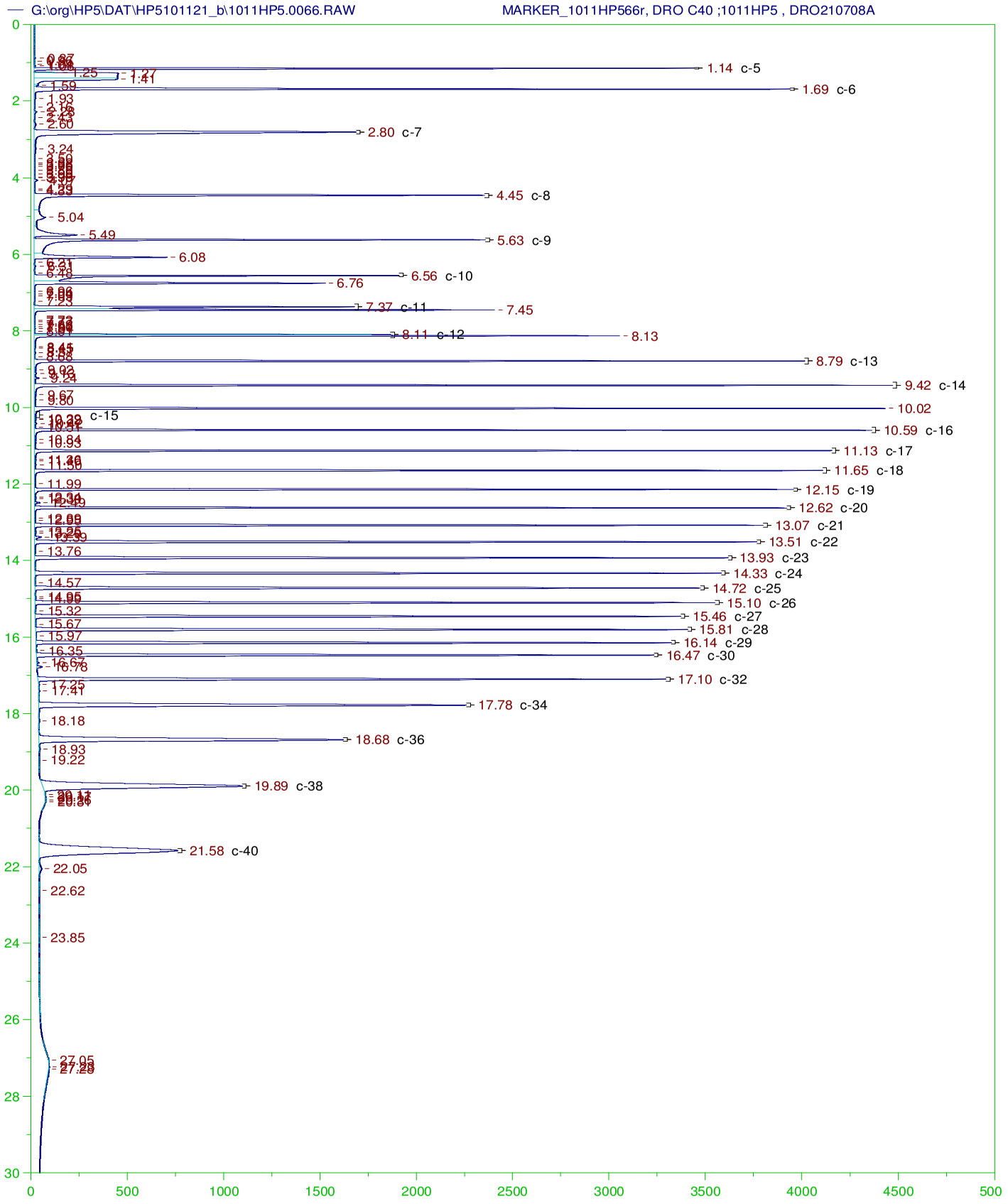
Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .101 | 53.07 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .086 | 45.07 | - |

DRO Area:6178081 DRO Amount: 0.1997427
TEH Area:7603099 TEH Amount: 0.2458148

G:\org\HP5\dat\HP5101121_b\Review\065_B21100827-002A_DS_8015-HS-L#.xls

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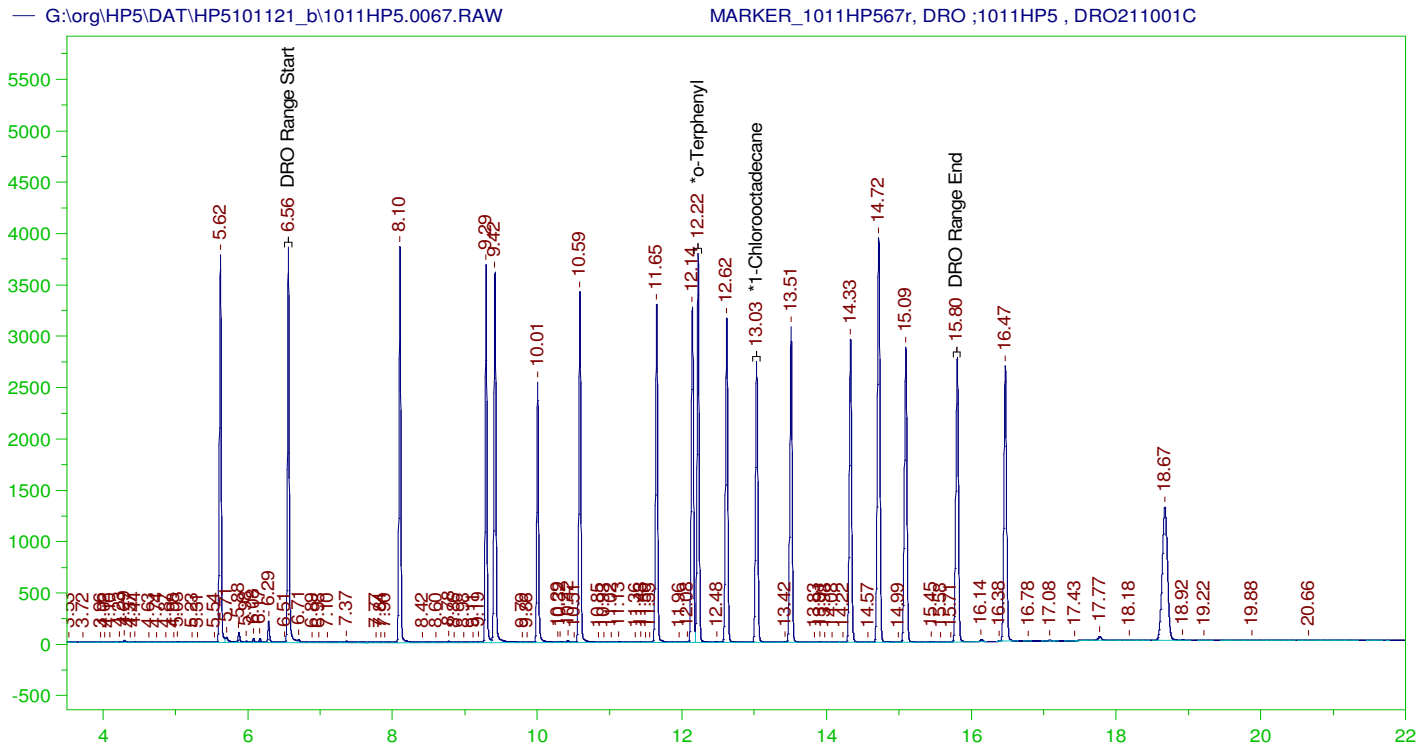


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0067.RAW
Date & Time Acquired: 10/13/2021 10:13:13 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | 200. | 207.103 | 103.55 | - |
| *1-Chlorooctadecane | 13.032 | 200. | 167.24 | 83.62 | - |

DRO Area:9.46077E+07 DRO Amount: 3211.686
TEH Area:1.157155E+08 TEH Amount: 3928.242

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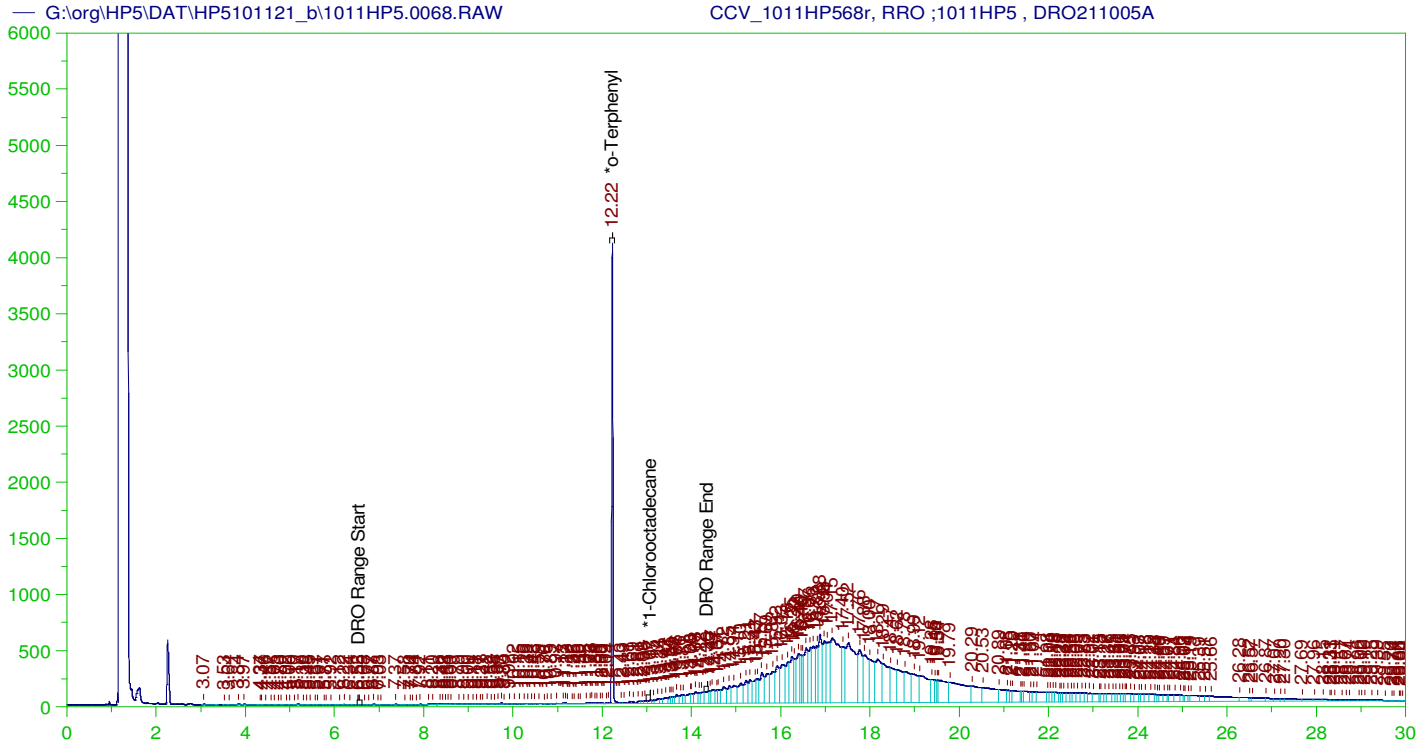



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP568r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW
Date & Time Acquired: 10/13/2021 10:55:59 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 228.139 | 114.07 | - |
| *1-Chlorooctadecane | 13.068 | 200. | 4.318 | 2.16 | - |

DRO Area:6687357 DRO Amount: 234.2955
TEH (Oil Range) Area:1.440007E+08 TEH (Oil Range) Amount: 5045.149

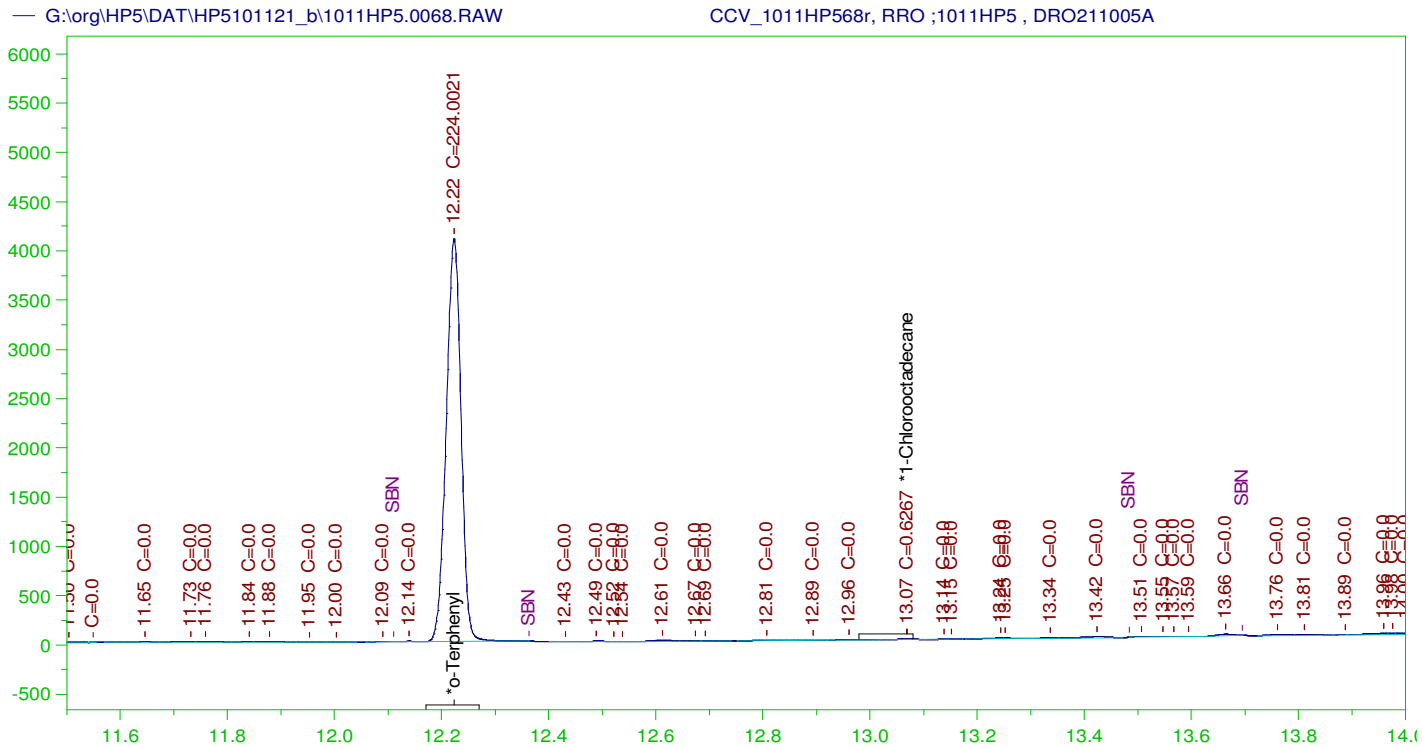
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5045.15 | 100.9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 228.139 | 114.07 | 85-115 |
| *1-Chlorooctadecane | 13.068 | 200. | 4.318 | 2.16 | 85-115 |

AMN 10/20/2021

G:\org\HP5\dat\HP5101121_b\Review\068_CCV_1011HP568r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP568r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW
Date & Time Acquired: 10/13/2021 10:55:59 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 224.002 | 112. | - |
| *1-Chlorooctadecane | 13.068 | 200. | .627 | .31 | - |

DRO Area:934243.1 DRO Amount: 32.73175
TEH Area:2139755 TEH Amount: 74.96756

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 74.97 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 224.002 | 112. | 85-115 |
| *1-Chlorooctadecane | 13.068 | 200. | .627 | .31 | 85-115 |

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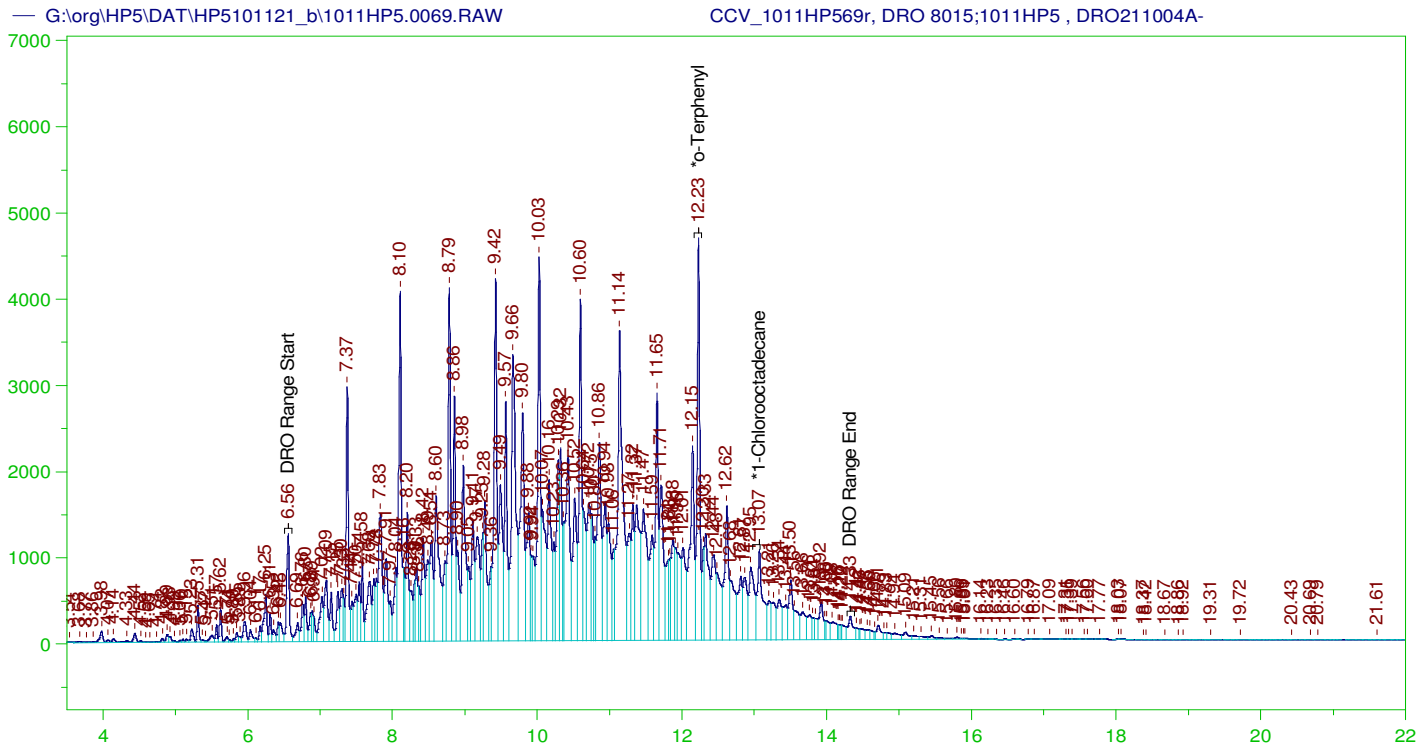



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW
Date & Time Acquired: 10/13/2021 11:38:56 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 334.947 | 167.47 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 152.18 | 76.09 | - |

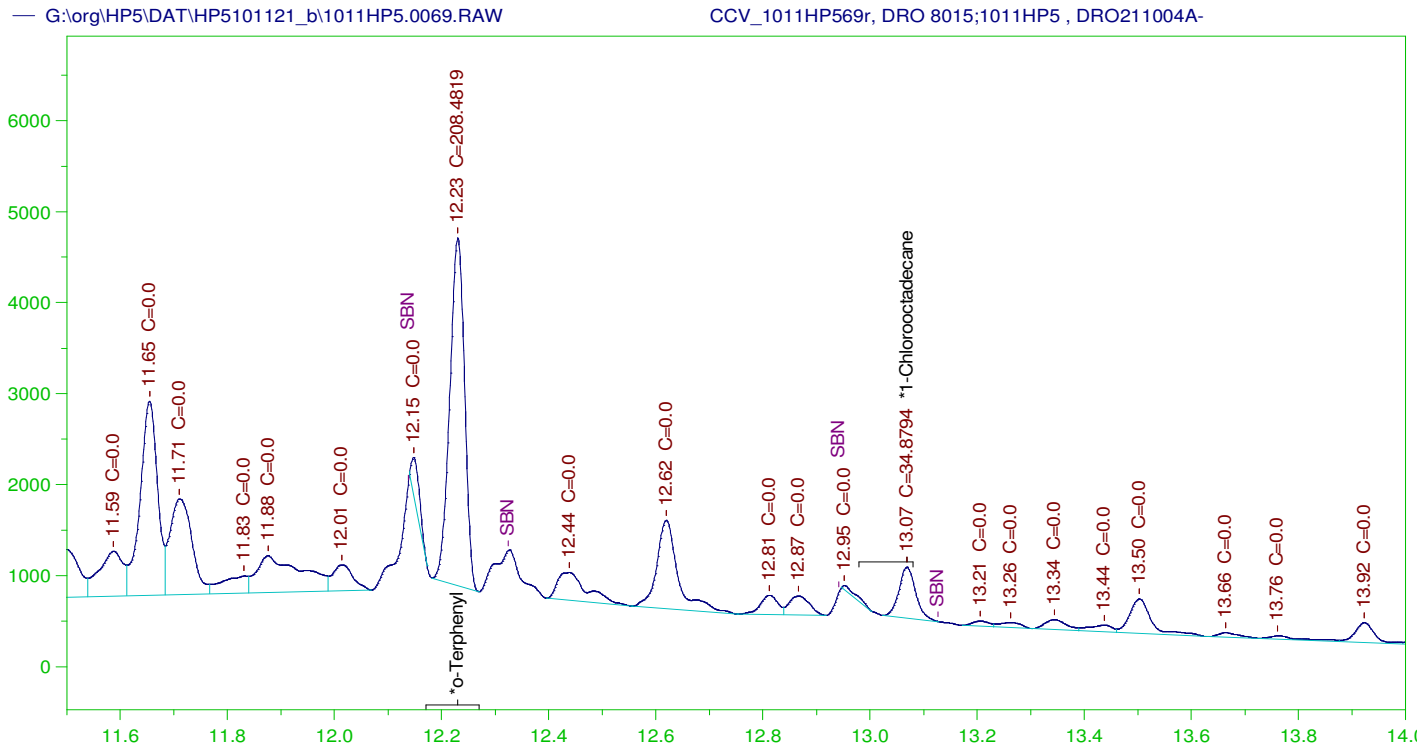
DRO Area:4.39895E+08 DRO Amount: 14933.29
TEH Area:4.556282E+08 TEH Amount: 15467.4

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15467.4 | 103.12 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 334.947 | 167.47 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 152.18 | 76.09 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\069_CCV_1011HP569r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW
Date & Time Acquired: 10/13/2021 11:38:56 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 208.482 | 104.24 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 34.879 | 17.44 | - |

DRO Area:2.439914E+08 DRO Amount: 8282.876
TEH Area:2.533526E+08 TEH Amount: 8600.662

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8600.66 | 57.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 208.482 | 104.24 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 34.879 | 17.44 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\069_CCV_1011HP569r_DS_8015-HS-L#.xls

Write Sequence | Insert Entries(Have the first cell for entries selectec

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | **Manual Integrations** |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.56r | DCM-Baseline Check-V56 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.57r | DCM-Baseline Check-V57 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.58r | LCS-160213 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split at 13.06.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.59r | MB-160213 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.60r | B21100824-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.61r | DCM-Baseline Check-V61 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.62r | B21100827-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1045 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak Width Adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.64r | DCM-Baseline Check-V64 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.65r | B21100827-002A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak Width Adjusted and scale set 4000.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.66r | MARKER_1011HP566r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.67r | MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.68r | CCV_1011HP568r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.69r | CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.21 08:39:06 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Oct-21*

**Run ID** GCFID-HP5-B_211013B

**Run Start Date:** 10/13/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211012C | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770795 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/13/2021 2:37: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.186625 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.901167 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2053911 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.186625 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770796 | CCV_1013HP50 | HC-8015-DRO- | CCV | | 10/13/2021 3:19: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.915474 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2262164 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770802 | CCV_1013HP54 | HC-8015-DRO- | CCV | | 10/13/2021 4:02: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.85804 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.85804 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 106% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2120444 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770803 | B21100828-001 | HC-8015-DRO- | SAMP | | 10/13/2021 5:27: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1976113 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770804 | B21100828-002 | HC-8015-DRO- | SAMP | | 10/13/2021 6:10: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1874219 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770805 | B21100834-001 | HC-8015-DRO- | SAMP | | 10/13/2021 6:53: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038511 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.087021 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.074151 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1818448 | | 0.198 | 0 | 0 | 0.0004247 | 0.002 | 0 | 92% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770806 | B21100834-002 | HC-8015-DRO- | SAMP | | 10/13/2021 8:19: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.189216 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770807 | B21100834-003 | HC-8015-DRO- | SAMP | | 10/13/2021 9:45: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1973095 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 103% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770808 | B21100827-003 | HC-8015-DRO- | SAMP | | 10/13/2021 11:5 | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1915854 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770809 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/14/2021 2:01: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3273.727 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4005.684 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 210.9286 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105464% | 50 | 150 | 0% | S |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3273.727 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770810 | CCV_1013HP51 | HC-8015-DRO- | CCV | | 10/14/2021 2:44: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.746161 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 95% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2216466 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 111% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770811 | CCV_1013HP52 | HC-8015-DRO- | CCV | | 10/14/2021 3:27: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.33257 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 109% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.33257 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.219708 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770812 | LCS-RRO-1602 | HC-8015-DRO- | LCS-DOD | | 10/14/2021 4:52: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.671418 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 93% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.203986 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770813 | B21100827-002 | HC-8015-DRO- | MS-DOD | | 10/14/2021 6:18: | 1 | 160213 | 10/11/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.356012 | | 9.7 | 0.4448315 | 0 | 0.170526 | 0.582 | 0 | 92% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2648423 | | 0.388 | 0 | 0 | 0.0008323 | 0.00388 | 0 | 68% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770814 | B21100827-002 | HC-8015-DRO- | MSD-DOD | | 10/14/2021 7:43: | 1 | 160213 | 10/11/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.44066 | | 9.7 | 0.4448315 | 9.356012 | 0.170526 | 0.582 | 0 | 93% | 41 | 113 | 1% | |
| o-Terphenyl | S | mg/L | | 0.237997 | | 0.388 | 0 | 0 | 0.0008323 | 0.00388 | 0 | 61% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770815 | B21100827-001 | HC-8015-DRO- | MS-DOD | | 10/14/2021 9:08: | 1 | 160213 | 10/11/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 30.96145 | | 30 | 0.2248985 | 0 | 0.0778 | 0.6 | 0 | 102% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 33.02845 | | 30 | 0.6724572 | 0 | 0.1498 | 0.6 | 50 | 108% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.4151205 | | 0.4 | 0 | 0 | 0.000858 | 0.004 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770816 | B21100827-001 | HC-8015-DRO- | MSD-DOD | | 10/14/2021 10:3 | 1 | 160213 | 10/11/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 31.09606 | | 30 | 0.2248985 | 30.96145 | 0.0778 | 0.6 | 0 | 103% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 33.69878 | | 30 | 0.6724572 | 33.02845 | 0.1498 | 0.6 | 50 | 110% | 60 | 132 | 2% | |
| o-Terphenyl | S | mg/L | | 0.3570459 | | 0.4 | 0 | 0 | 0.000858 | 0.004 | 0 | 89% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770817 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/14/2021 12:4 | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.544346 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.332742 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2284829 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 114% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.544346 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770818 | CCV_1013HP53 | HC-8015-DRO- | CCV | | 10/14/2021 1:24: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.916102 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2103075 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770819 | CCV_1013HP53 | HC-8015-DRO- | CCV | | 10/14/2021 2:06: | 1 | R368674 | | 0 | 0 | |

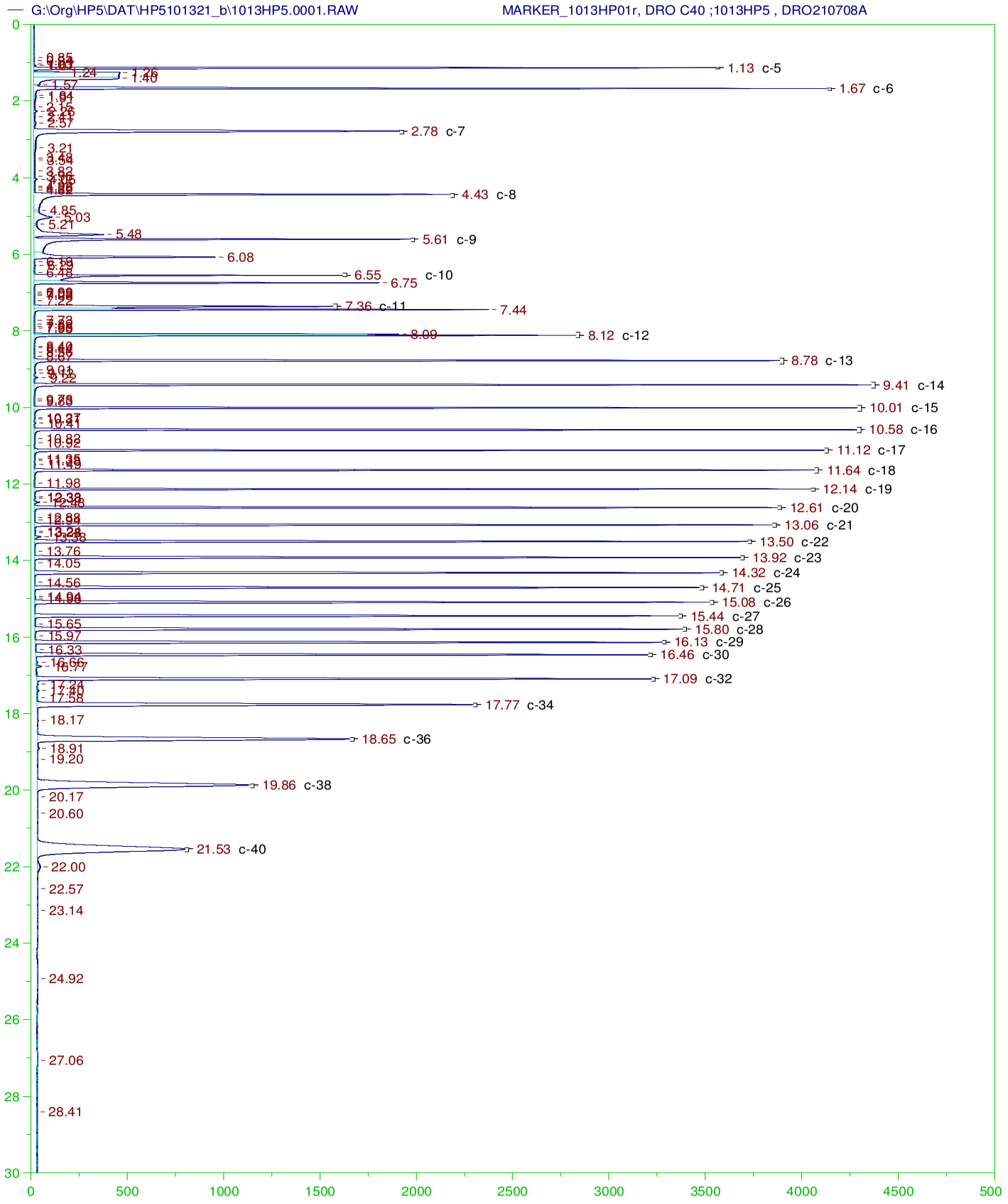
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

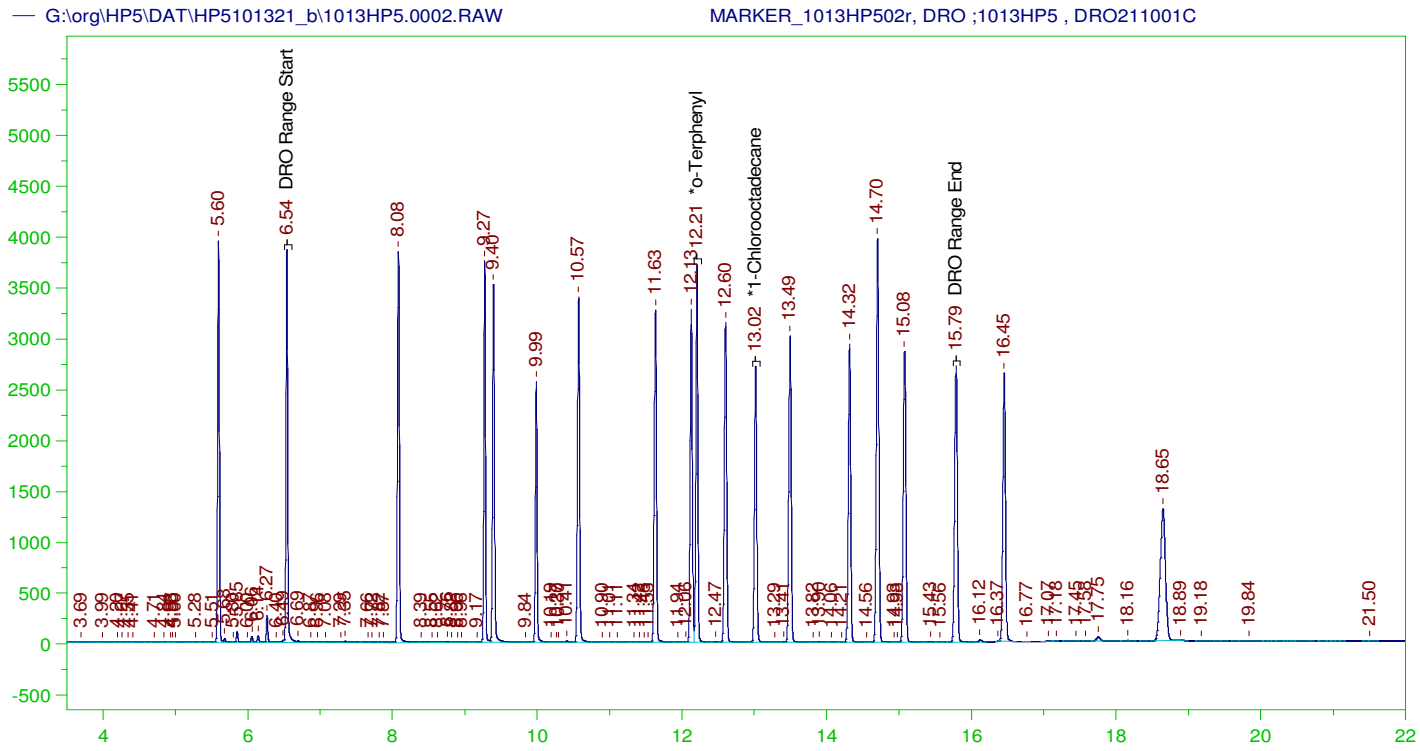
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770819 | CCV_1013HP53 | HC-8015-DRO- | CCV | | 10/14/2021 2:06: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.89215 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.89215 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 106% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2131573 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

Write Sequence | Insert Entries(Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101321_b\1013HP5.01r | MARKER_1013HP01r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.02r | MARKER_1013HP502r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.03r | CCV_1013HP503r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.04r | CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.06r | B21100828-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-101306-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-101306-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.07r | B21100828-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.08r | B21100834-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1010 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.09r | DCM-Baseline Check-V09 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.10r | B21100834-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.11r | DCM-Baseline Check-V11 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.12r | B21100834-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.15r | B21100827-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.16r | DCM-Baseline Check-V16 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.17r | MARKER_1013HP17r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.18r | MARKER_1013HP518r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.19r | CCV_1013HP519r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.20r | CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.21r | DCM-Baseline Check-V21 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.22r | LCS-RRO-160213 ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.24r | B21100827-002AMS-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.25r | DCM-Baseline Check-V25 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.26r | B21100827-002AMSD-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.28r | B21100827-001AMS ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101328-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.30r | B21100827-001AMSD ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101330-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.32r | MARKER_1013HP32r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.33r | MARKER_1013HP533r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.34r | CCV_1013HP534r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.35r | CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.36r | DCM-Baseline Check-V36 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.37r | DCM-Baseline Check-V37 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.38r | MARKER_1013HP38r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.39r | MARKER_1013HP539r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.40r | CCV_1013HP540r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.41r | CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.42r | DCM-Baseline Check-V42 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.43r | LCS-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.44r | MB-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.45r | B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.46r | B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1045 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.47r | B21100827-001AMS ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.48r | B21100827-001AMSD ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.49r | B21100827-002AMS-RRO ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.50r | DCM-Baseline Check-V50 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.51r | B21100827-002AMSD-RRO ;1013HP5 , SGT-NEEDS RR Instrument misinjection | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.52r | DCM-Baseline Check-V52 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.53r | LCS-RRO-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.54r | MARKER_1013HP54r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.55r | MARKER_1013HP555r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.56r | CCV_1013HP556r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.57r | CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.58r | DCM-Baseline Check-V58 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.59r | B21100827-002AMSD-RRO ;1013HP5 , SGT-RR | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.60r | MARKER_1013HP560r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.61r | CCV_1013HP561r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\Org\HP5\DAT\HP5101321_b\1013HP5.0001.RAW
MARKER_1013HP01r, DRO C40 ;1013HP5 , DRO210708A
1.13 c-5
1.67 c-6
2.78 c-7
4.43 c-8
5.61 c-9
6.55 c-10
7.36 c-11
8.12 c-12
8.78 c-13
9.41 c-14
10.01 c-15
10.58 c-16
11.12 c-17
11.64 c-18
12.14 c-19
12.61 c-20
13.06 c-21
13.50 c-22
13.92 c-23
14.32 c-24
14.71 c-25
15.08 c-26
15.44 c-27
15.80 c-28
16.13 c-29
16.46 c-30
17.09 c-32
17.77 c-34
18.65 c-36
19.86 c-38
21.53 c-40
G:\org\HP5\dat\HP5101321_b\Review\001_MARKER_1013HP01r_CSC211011.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

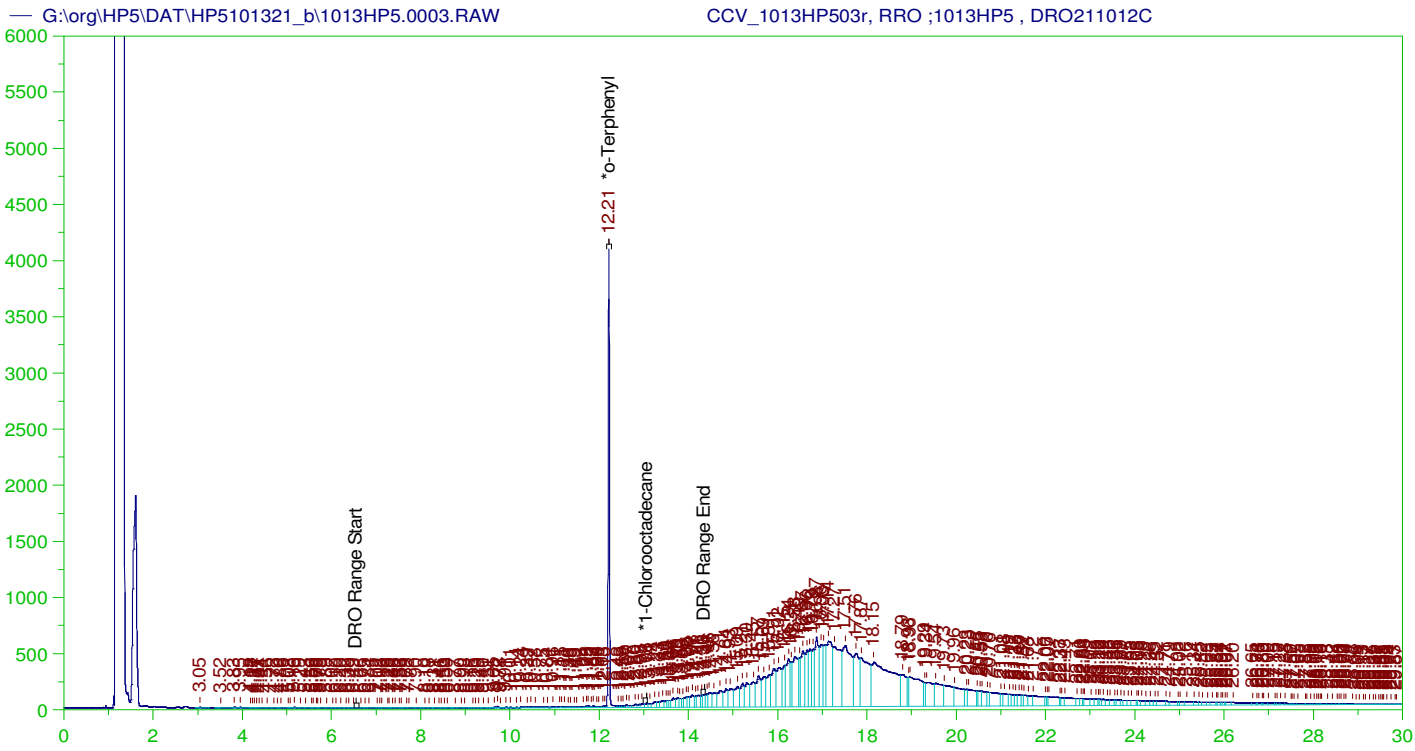
Sample Name: MARKER_1013HP502r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0002.RAW
Date & Time Acquired: 10/13/2021 2:37:20 PM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .2 | .205 | 102.7 | - |
| *1-Chlorooctadecane | 13.018 | .2 | .166 | 83.19 | - |

DRO Area:9.386948E+07 DRO Amount: 3.186625
TEH Area:1.14918E+08 TEH Amount: 3.901167

G:\org\HP5\dat\HP5101321_b\Review\002_MARKER_1013HP502r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP503r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW
Date & Time Acquired: 10/13/2021 3:19:40 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 230.954 | 115.48 | - |
| *1-Chlorooctadecane | 13.06 | 200. | 4.243 | 2.12 | - |

DRO Area:7023046 DRO Amount: 246.0565
TEH (Oil Range) Area:1.402995E+08 TEH (Oil Range) Amount: 4915.474

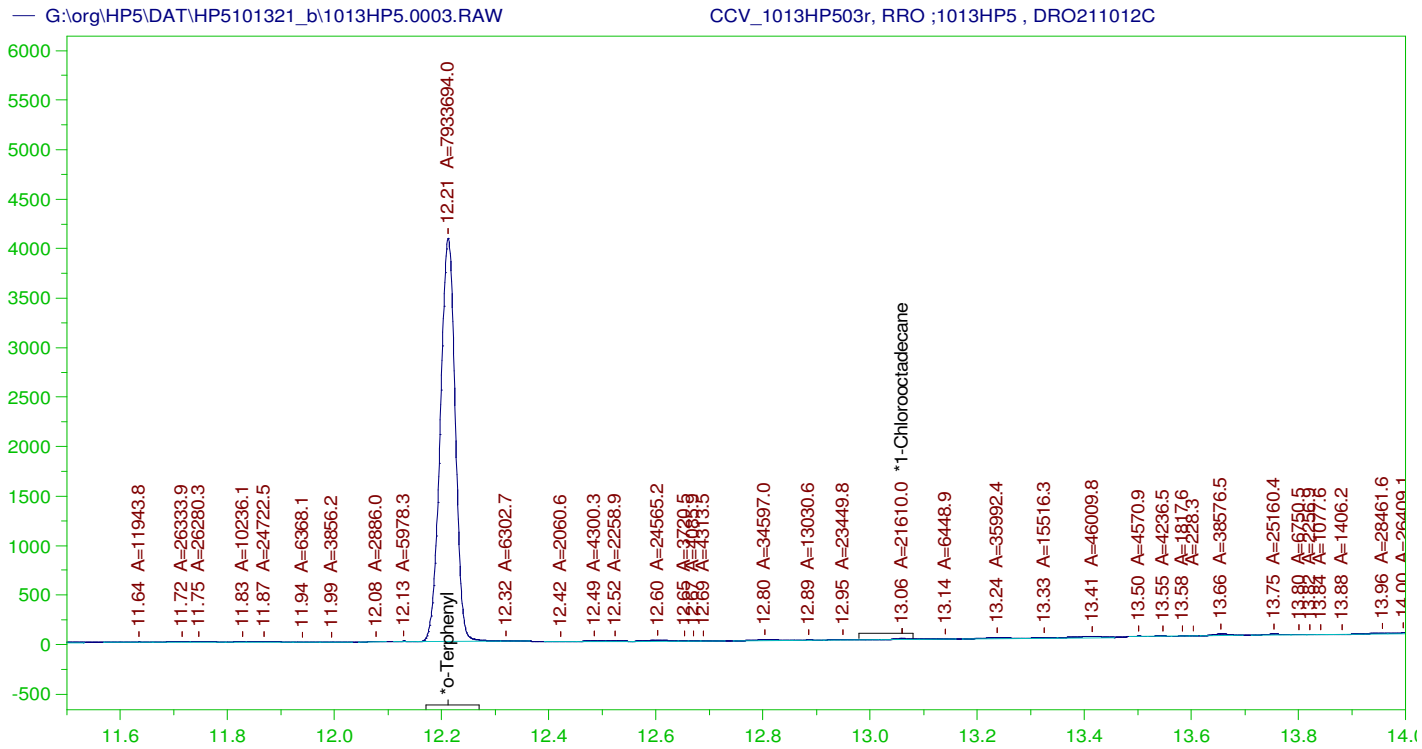
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4915.47 | 98.31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 230.954 | 115.48 | 85-115 |
| *1-Chlorooctadecane | 13.06 | 200. | 4.243 | 2.12 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\003_CCV_1013HP503r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP503r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW
Date & Time Acquired: 10/13/2021 3:19:40 PM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 226.216 | 113.11 | - |
| *1-Chlorooctadecane | 13.06 | 200. | .616 | .31 | - |

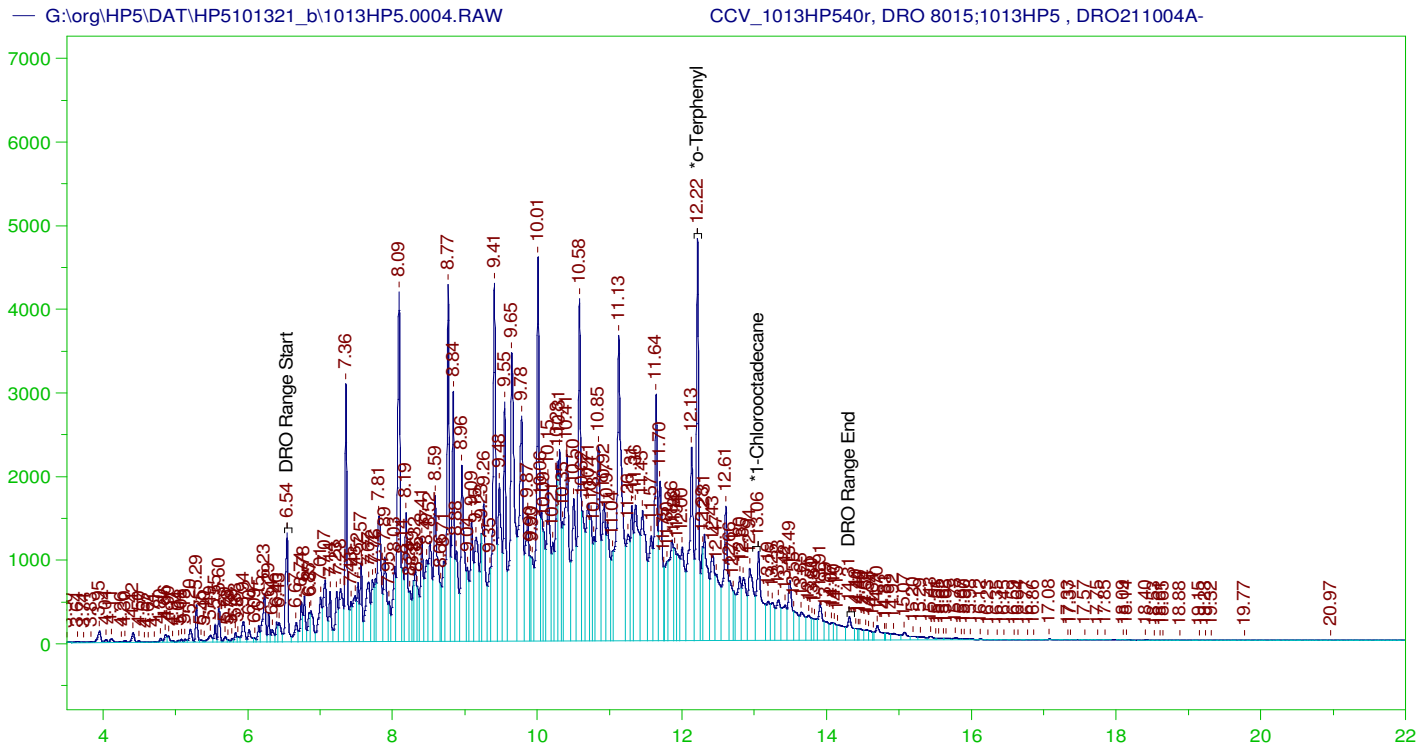
DRO Area:919508.9 DRO Amount: 32.21553
TEH Area:2216074 TEH Amount: 77.64143

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 77.64 | 1.55 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 226.216 | 113.11 | 85-115 |
| *1-Chlorooctadecane | 13.06 | 200. | .616 | .31 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\003_CCV_1013HP503r_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW
Date & Time Acquired: 10/13/2021 4:02:01 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 343.222 | 171.61 | - |
| *1-Chlorooctadecane | 13.057 | 200. | 155.465 | 77.73 | - |

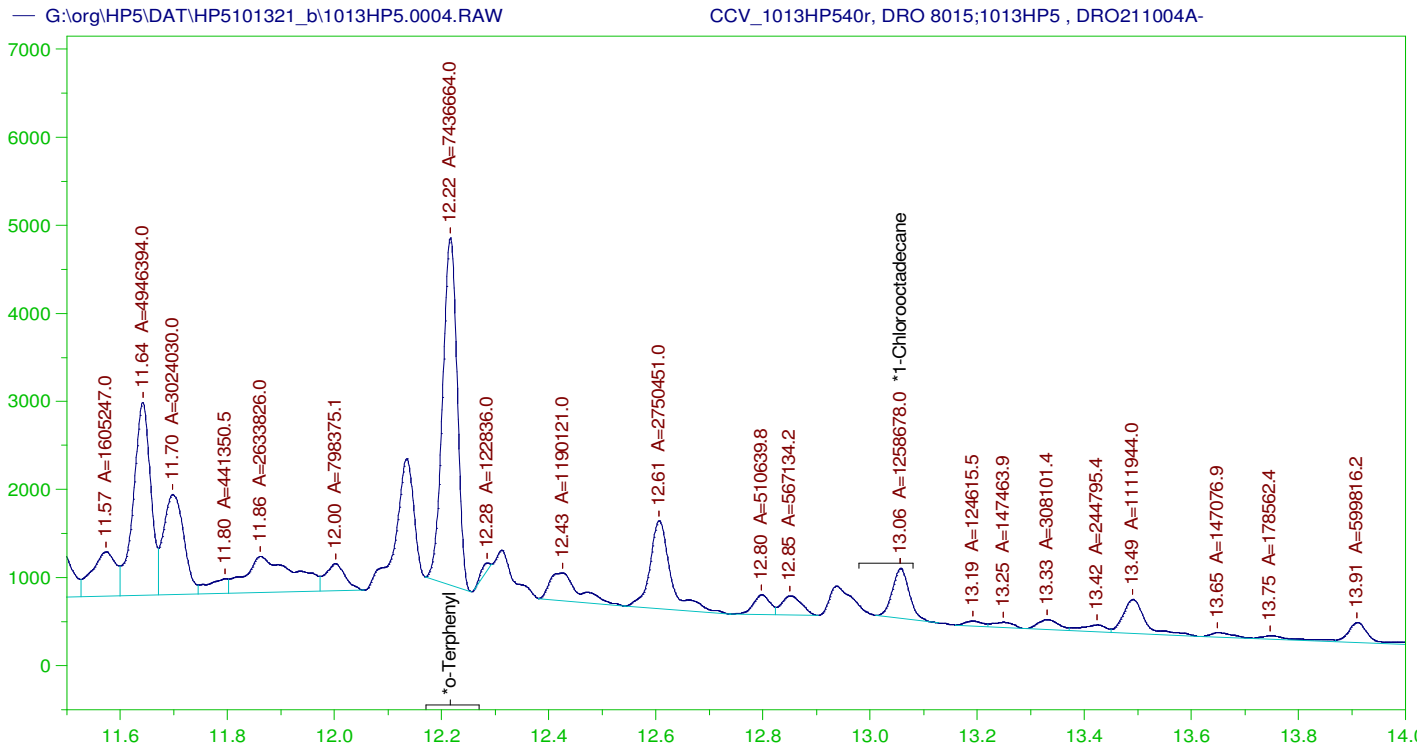
DRO Area:4.507372E+08 DRO Amount: 15301.36
TEH Area:4.671356E+08 TEH Amount: 15858.04

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15858.04 | 105.72 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 343.222 | 171.61 | 85-115 |
| *1-Chlorooctadecane | 13.057 | 200. | 155.465 | 77.73 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\004_CCV_1013HP540r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW
Date & Time Acquired: 10/13/2021 4:02:01 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 212.044 | 106.02 | - |
| *1-Chlorooctadecane | 13.057 | 200. | 35.889 | 17.94 | - |

DRO Area:2.493131E+08 DRO Amount: 8463.533
TEH Area:2.590718E+08 TEH Amount: 8794.816

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8794.82 | 58.63 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 212.044 | 106.02 | 85-115 |
| *1-Chlorooctadecane | 13.057 | 200. | 35.889 | 17.94 | 85-115 |

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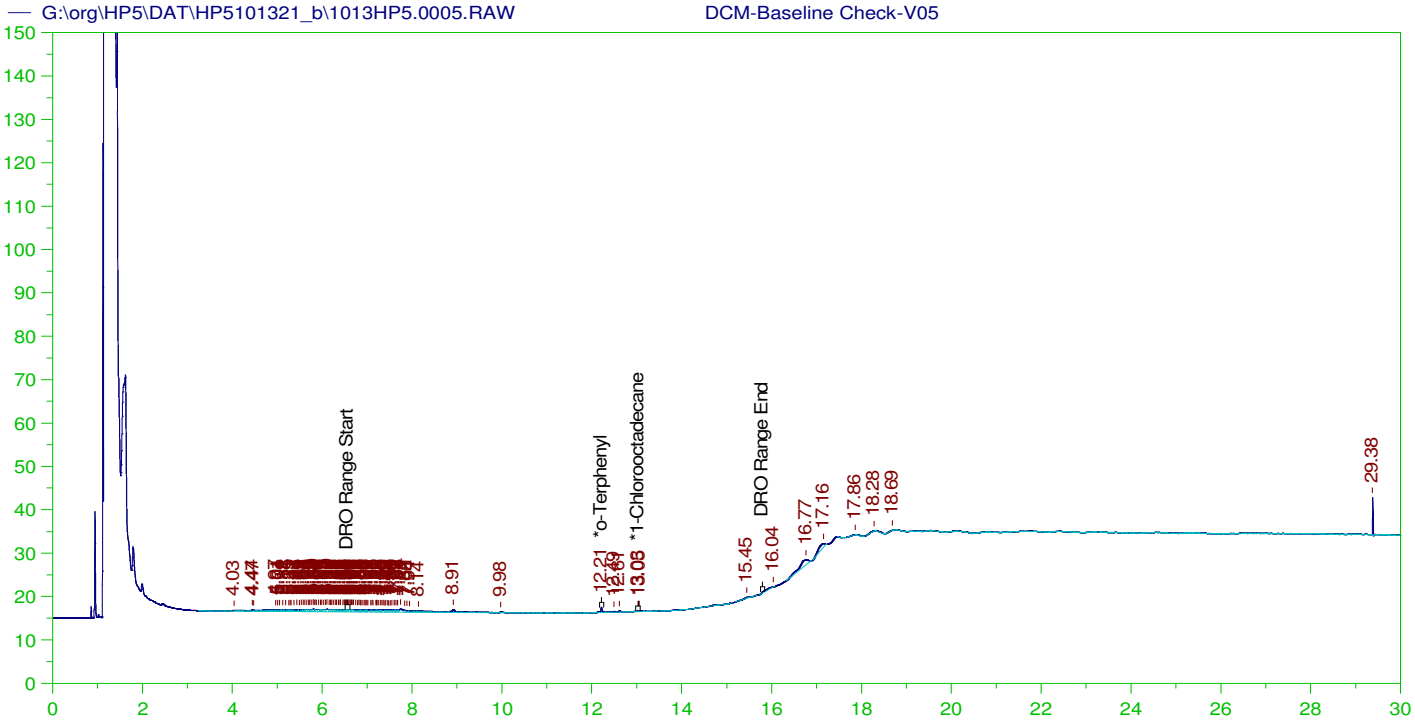



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0005.RAW
Date & Time Acquired: 10/13/2021 4:44:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

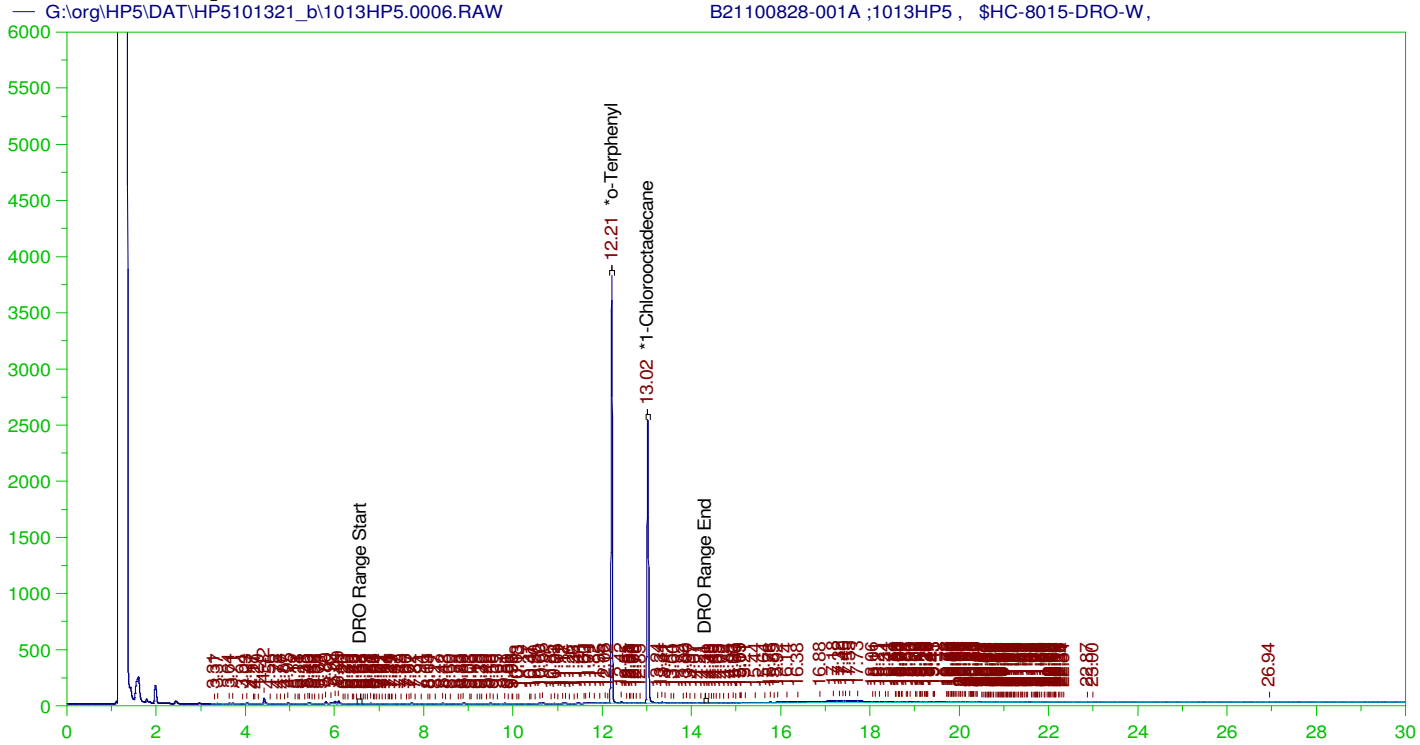
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.211 | 200. | .085 | .04 | - |
| *1-Chlorooctadecane | 13.031 | 200. | .016 | .01 | - |

DRO Area:75849.56 DRO Amount: 2.574896
TEH Area:186375.5 TEH Amount: 6.326963

G:\org\HP5\dat\HP5101321_b\Review\005_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1780 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW B21100828-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DR_8015-101306-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.21 | .19 | .199 | 104.36 | - |
| *1-Chlorooctadecane | 13.019 | .19 | .151 | 79.49 | - |

DRO Area:450173.7 DRO Amount: 0.0145545
TEH Area:4137389 TEH Amount: 0.1337653

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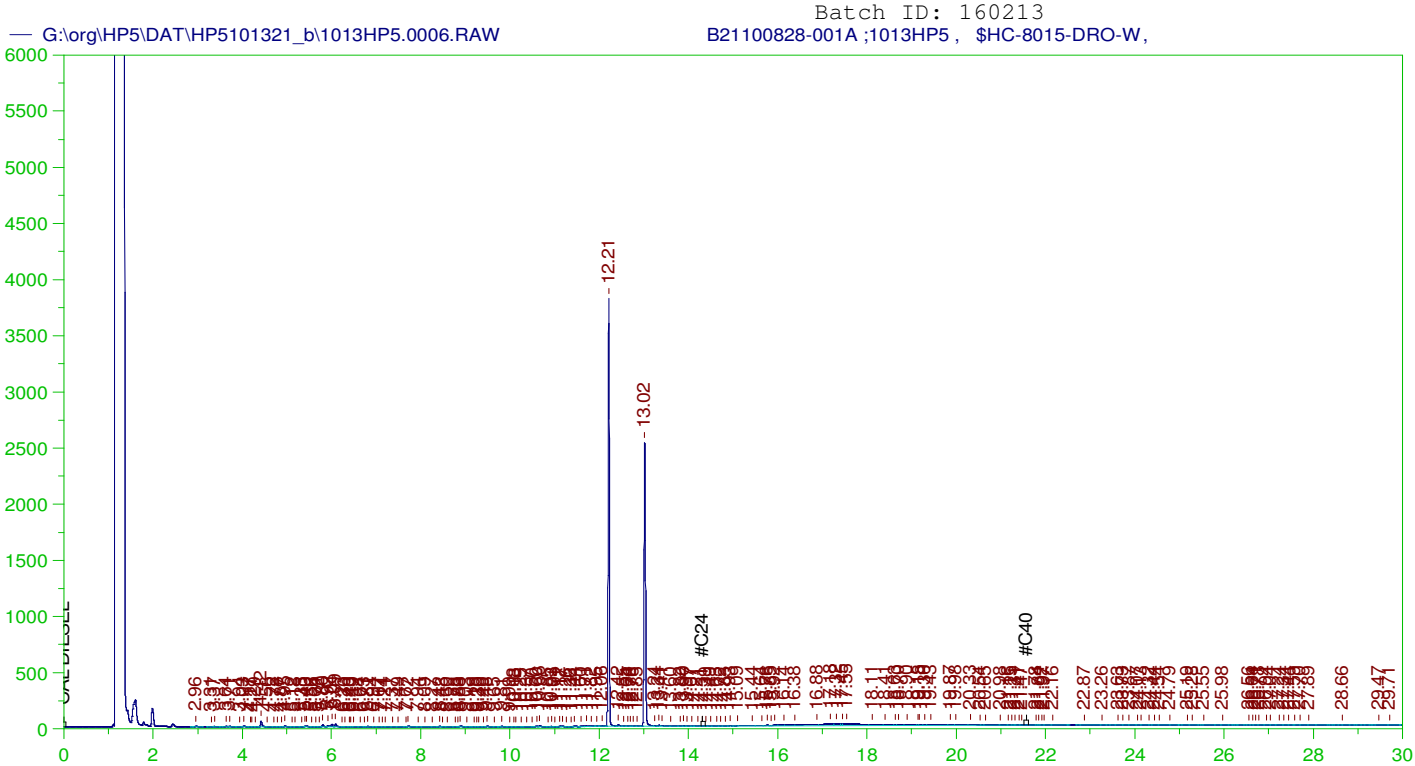
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DR_OIL-101306-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

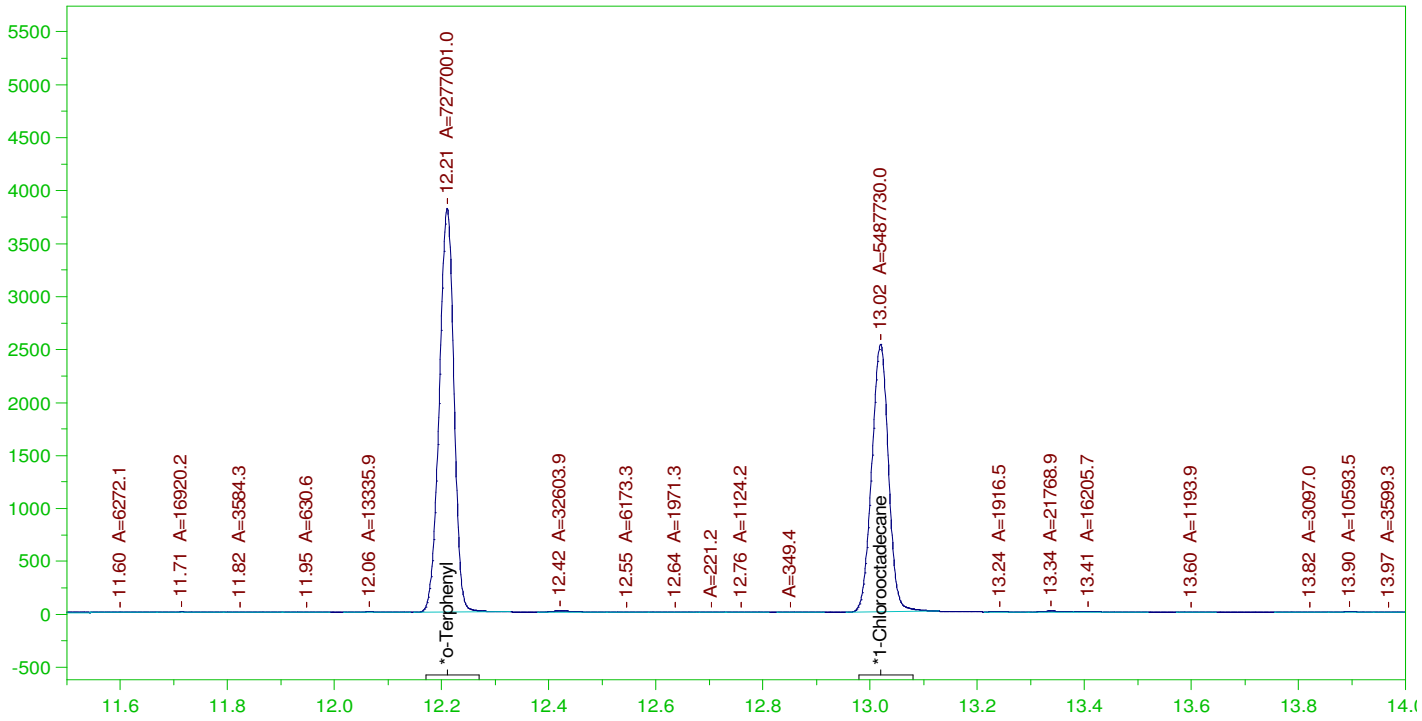
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:3114642 RRO AMOUNT: 0.1039269

G:\org\HP5\dat\HP5101321_b\Review\006_B21100828-001A_DR_OIL-101306-S-AJ-L%.xls

**ERH1780 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW B21100828-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

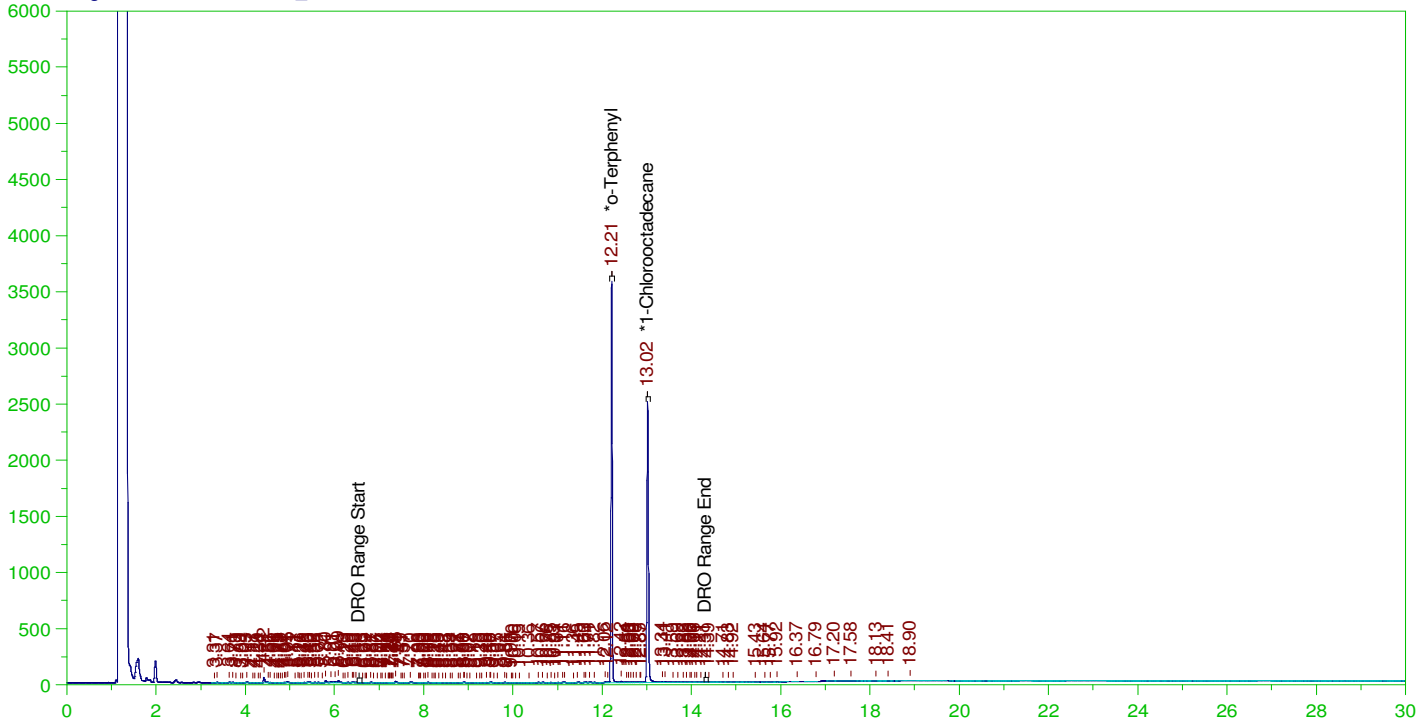
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.21 | .19 | .198 | 103.75 | - |
| *1-Chlorooctadecane | 13.019 | .19 | .149 | 78.24 | - |

DRO Area:385324.5 DRO Amount: 1.245787E-02
TEH Area:1007568 TEH Amount: 3.257553E-02

G:\org\HP5\dat\HP5101321_b\Review\006_B21100828-001A_DS_8015-area-HS-L#.xls

**ERH1781 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW B21100828-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

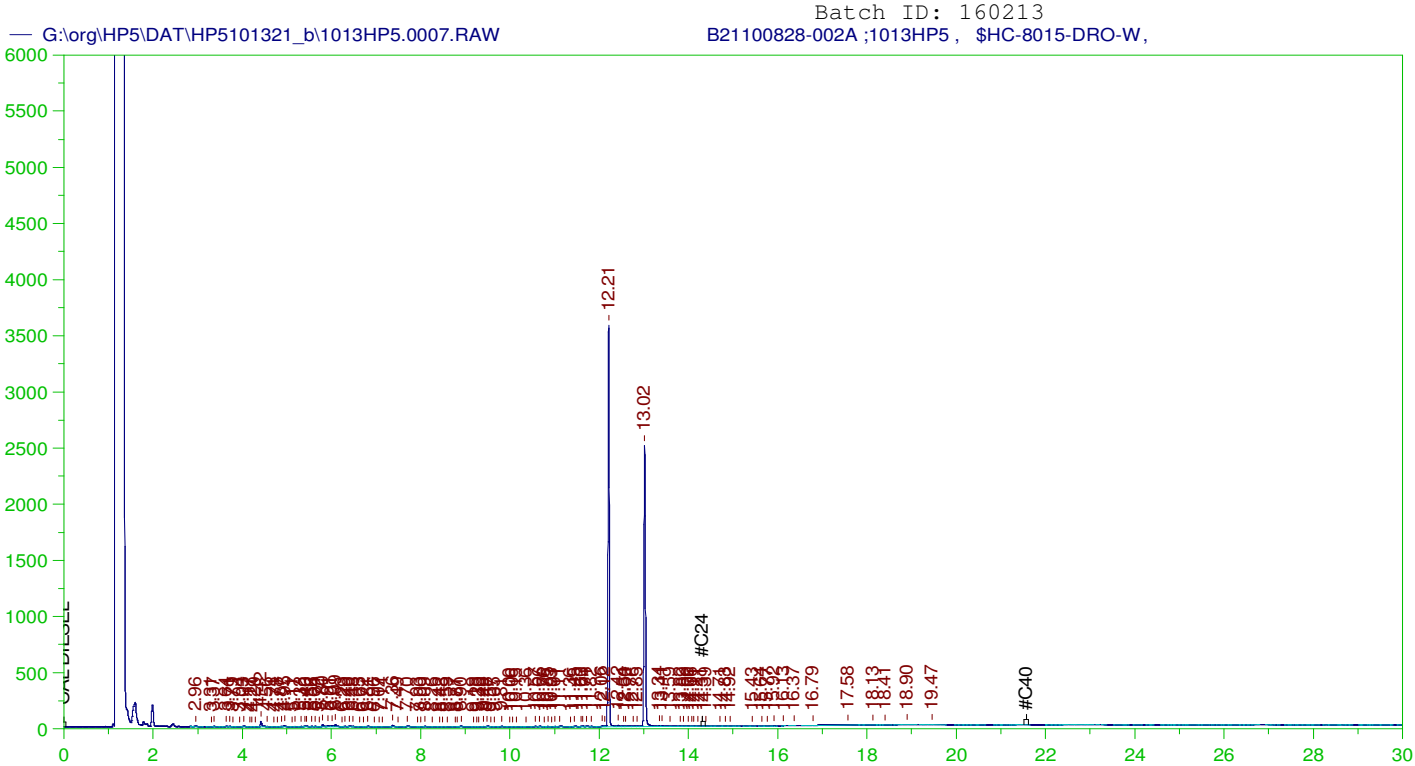
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .19 | .189 | 99.5 | - |
| *1-Chlorooctadecane | 13.017 | .19 | .151 | 79.58 | - |

DRO Area:474748.8 DRO Amount: 0.0152763
TEH Area:1024456 TEH Amount: 3.296458E-02

G:\org\HP5\dat\HP5101321_b\Review\007_B21100828-002A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

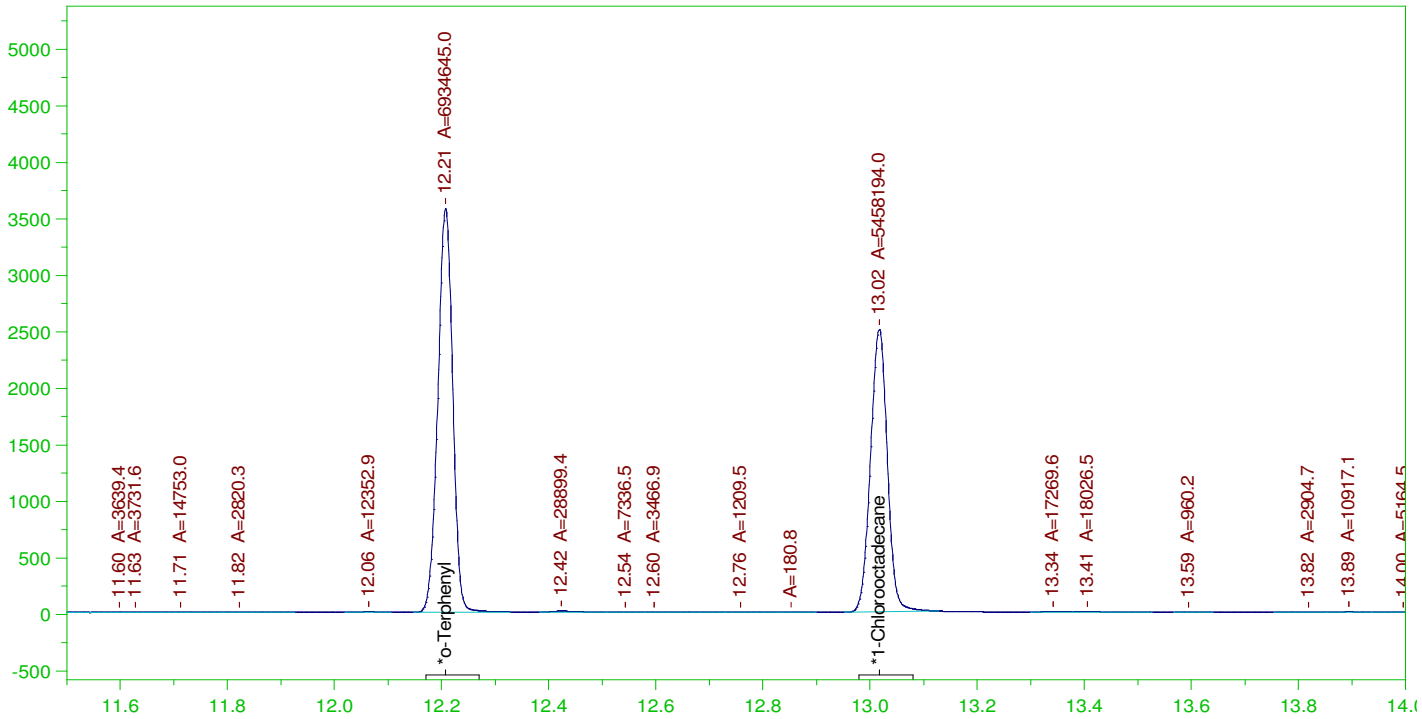
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:120457.5 RRO AMOUNT: 4.000284E-03

G:\org\HP5\dat\HP5101321_b\Review\007_B21100828-002A_DR_OIL-S-AJ-L%.xls

**ERH1781 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW B21100828-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

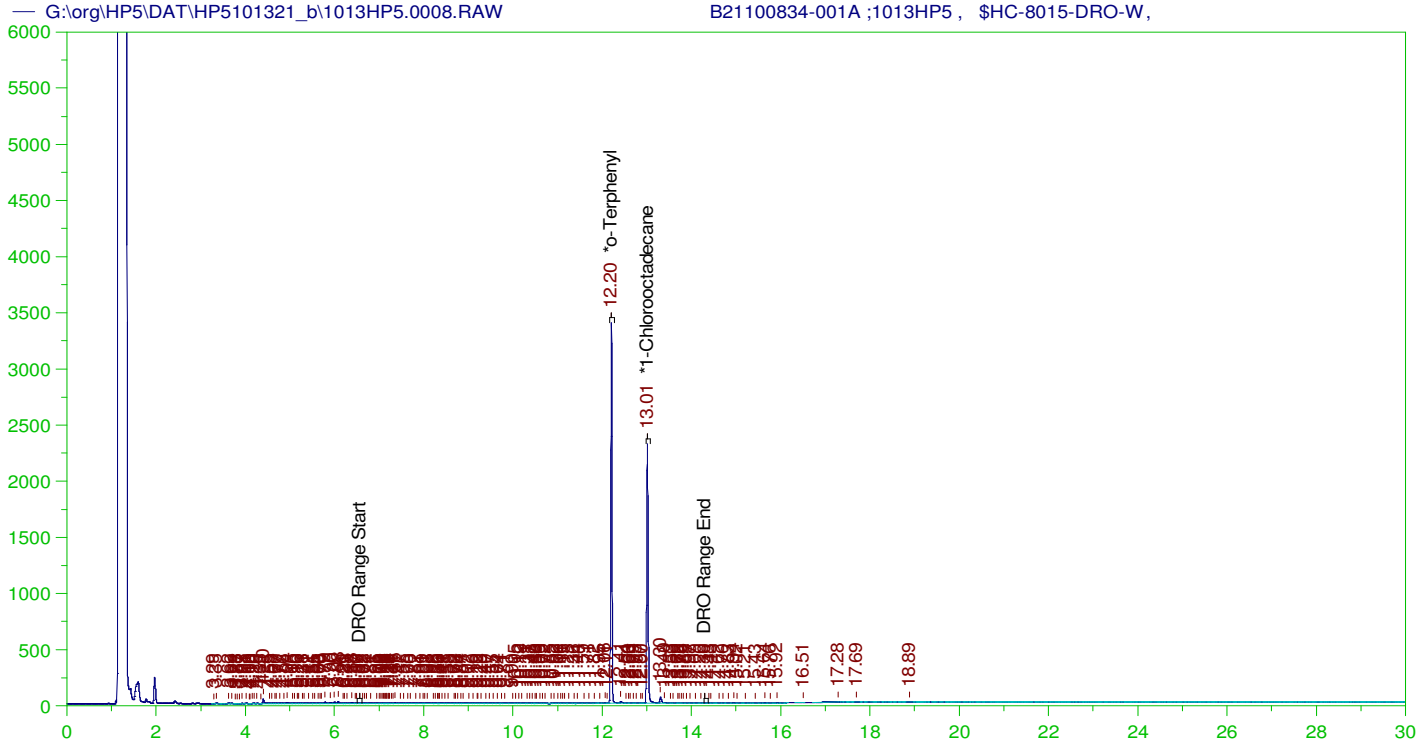
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .19 | .187 | 98.87 | - |
| *1-Chlorooctadecane | 13.017 | .19 | .148 | 77.82 | - |

DRO Area:391548.9 DRO Amount: 1.259912E-02
TEH Area:1005520 TEH Amount: 3.235526E-02

G:\org\HP5\dat\HP5101321_b\Review\007_B21100828-002A_DS_8015-area-HS-L#.xls

**ERH1771 (RHMW14-03)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW B21100834-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

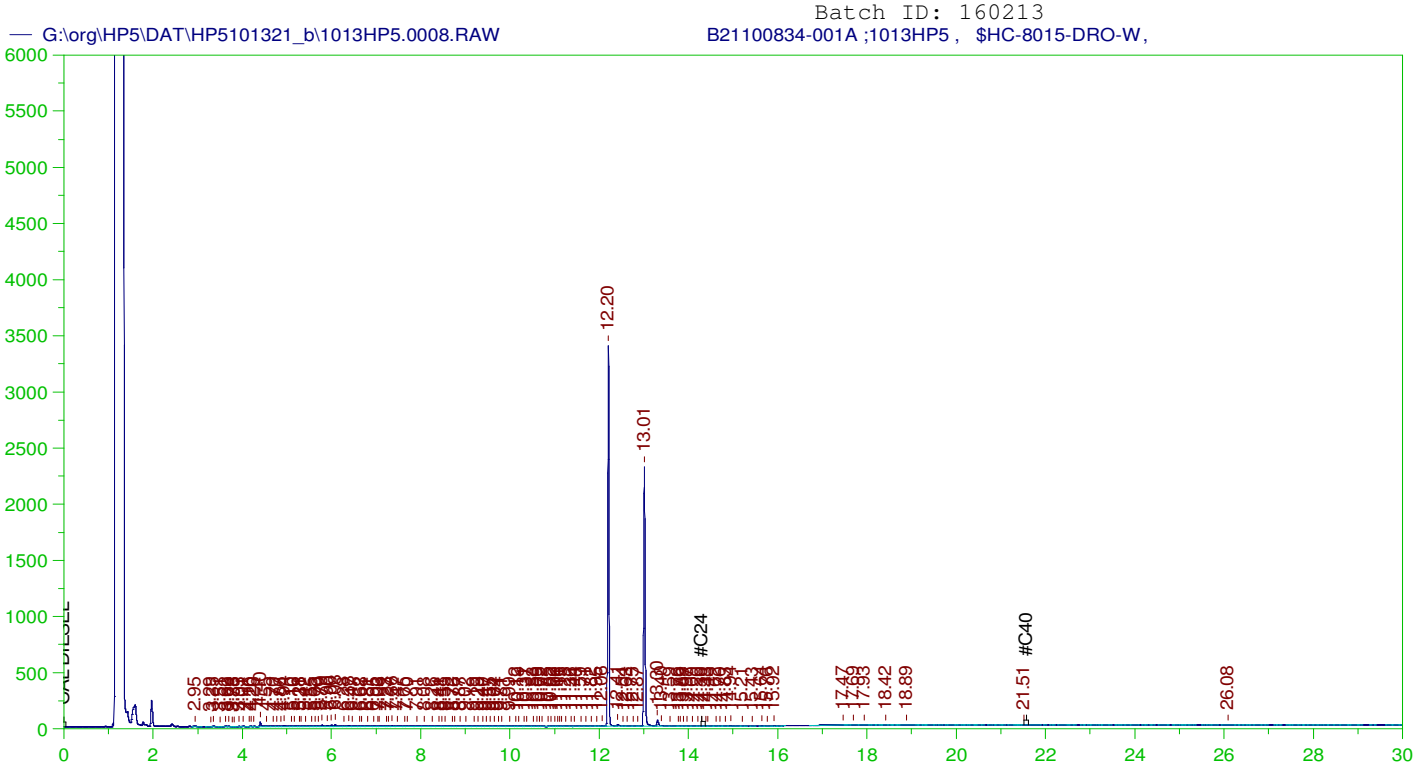
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | .198 | .183 | 92.4 | - |
| *1-Chlorooctadecane | 13.012 | .198 | .146 | 73.62 | - |

DRO Area:732105.1 DRO Amount: 0.024607
TEH Area:1328519 TEH Amount: 4.465324E-02

G:\org\HP5\dat\HP5101321_b\Review\008_B21100834-001A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:98411.37 RRO AMOUNT: 3.413762E-03

G:\org\HP5\dat\HP5101321_b\Review\008_B21100834-001A_DR_OIL-S-AJ-L%.xls

**ERH1771 (RHMW14-03)** Batch ID: 160213

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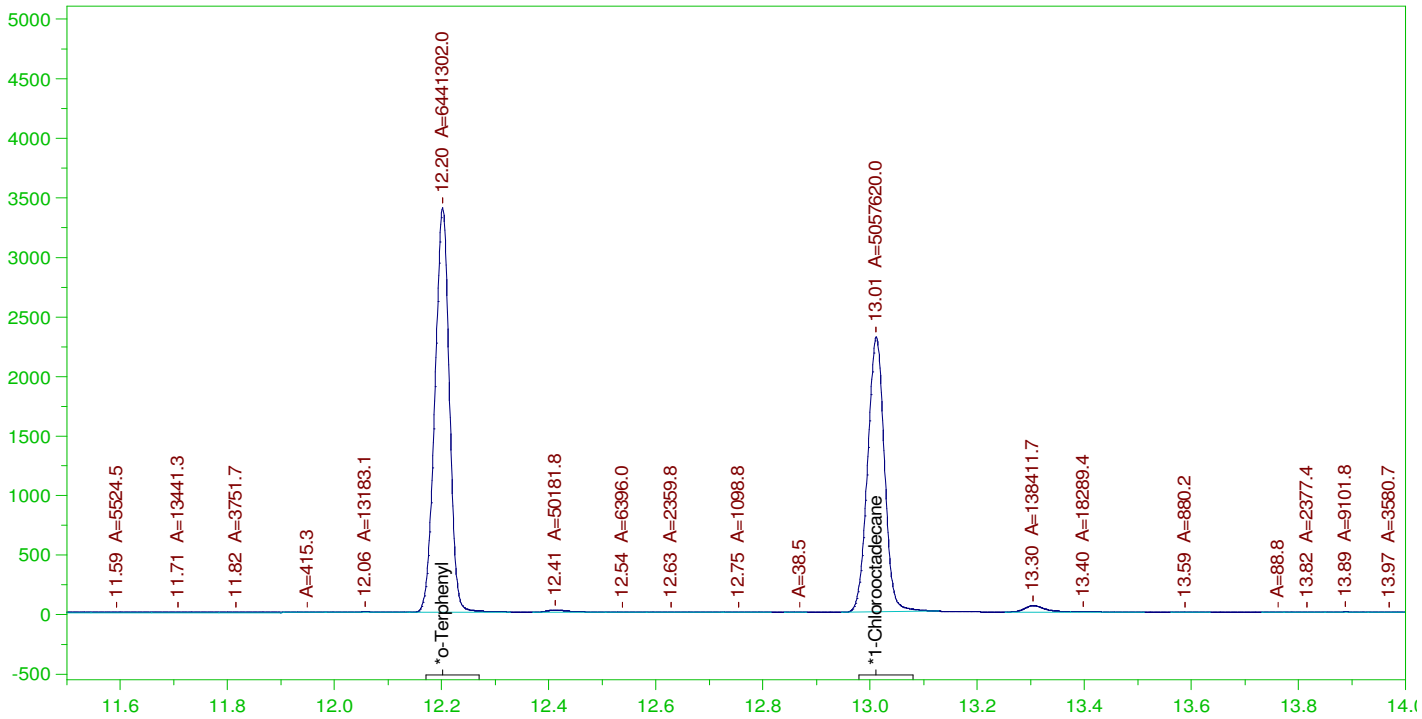



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

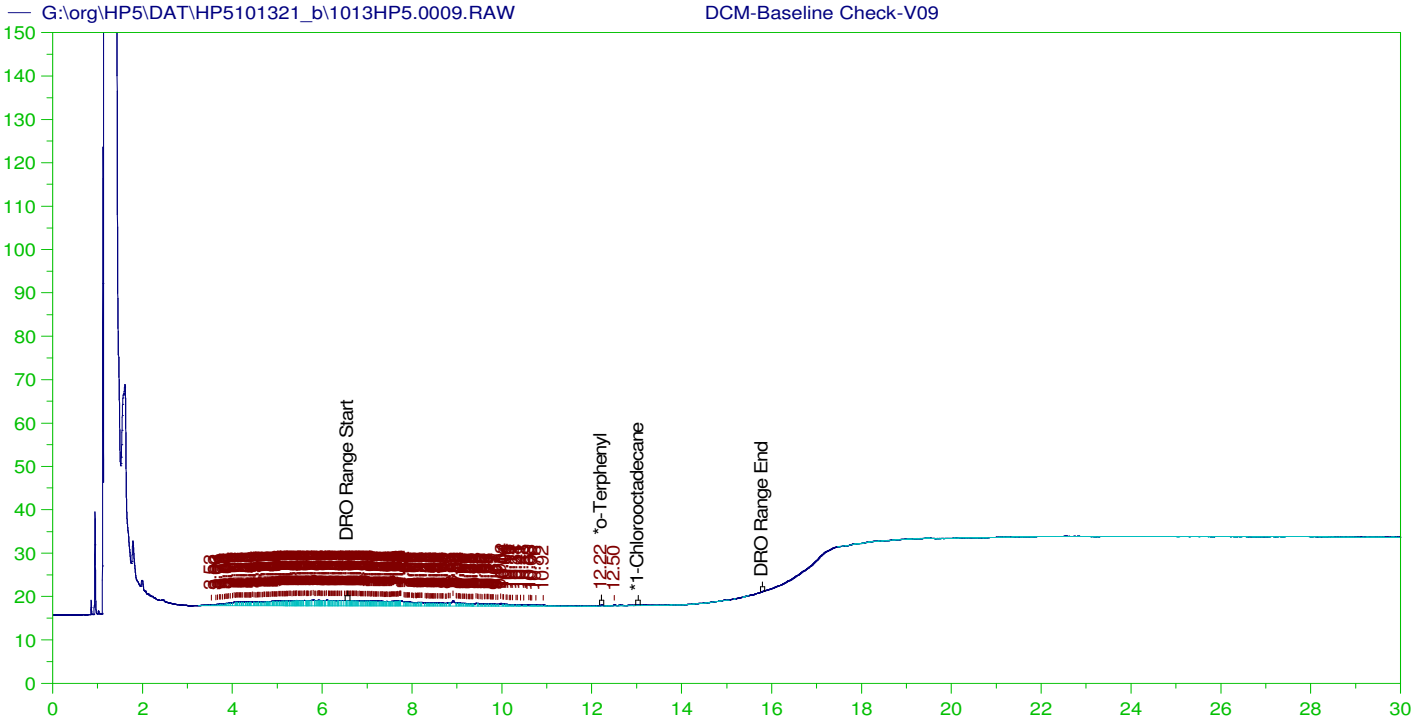
Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | .198 | .182 | 91.83 | - |
| *1-Chlorooctadecane | 13.012 | .198 | .143 | 72.1 | - |

DRO Area:677260.6 DRO Amount: 0.0227636
TEH Area:1316540 TEH Amount: 0.0442506

G:\org\HP5\dat\HP5101321_b\Review\008_B21100834-001A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V09
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0009.RAW
Date & Time Acquired: 10/13/2021 7:36:33 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | .028 | .01 | - |
| *1-Chlorooctadecane | 29.978 | 200. | . | . | - |

DRO Area:213604.1 DRO Amount: 7.251304
TEH Area:398975.3 TEH Amount: 13.54418

G:\org\HP5\dat\HP5101321_b\Review\009_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1773 (Field Blank)** Batch ID: 160213

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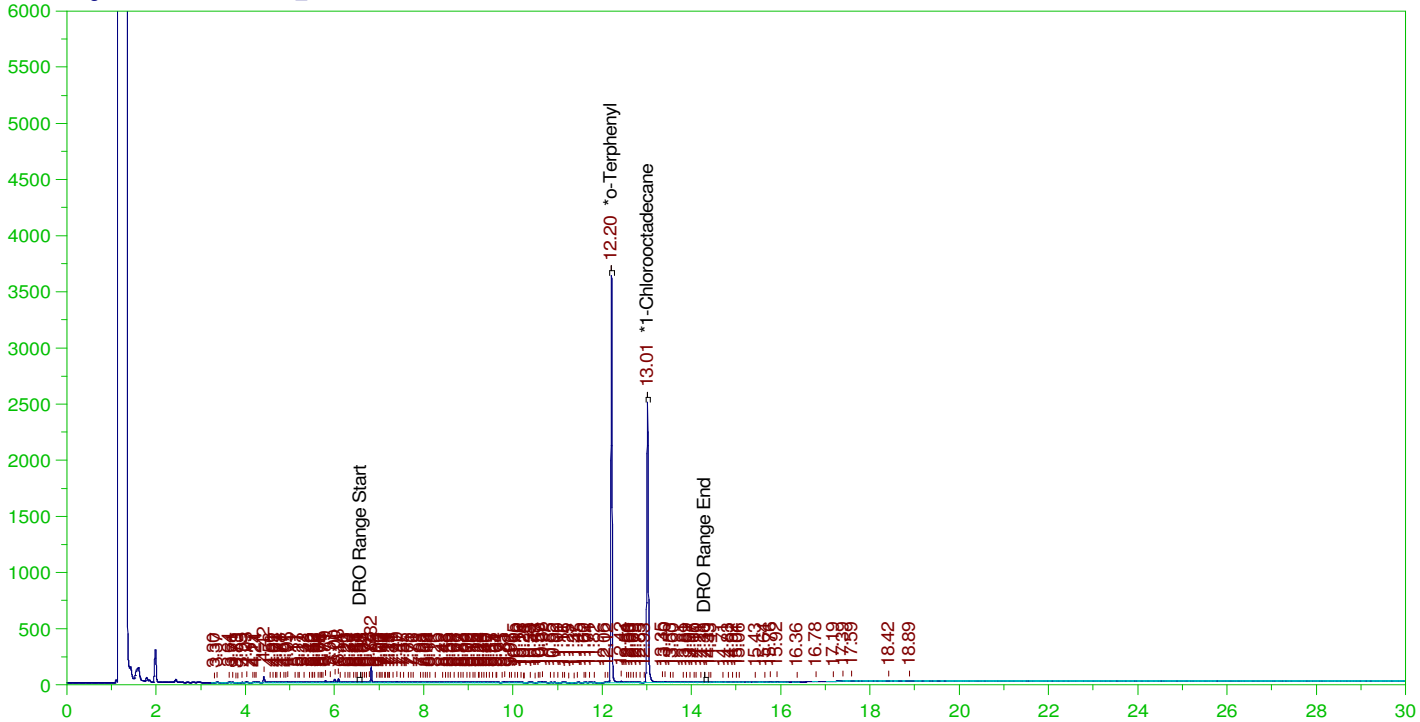


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .19 | .191 | 100.04 | - |
| *1-Chlorooctadecane | 13.014 | .19 | .154 | 80.78 | - |

DRO Area:1014568 DRO Amount: 3.280184E-02
TEH Area:1728863 TEH Amount: 5.589564E-02

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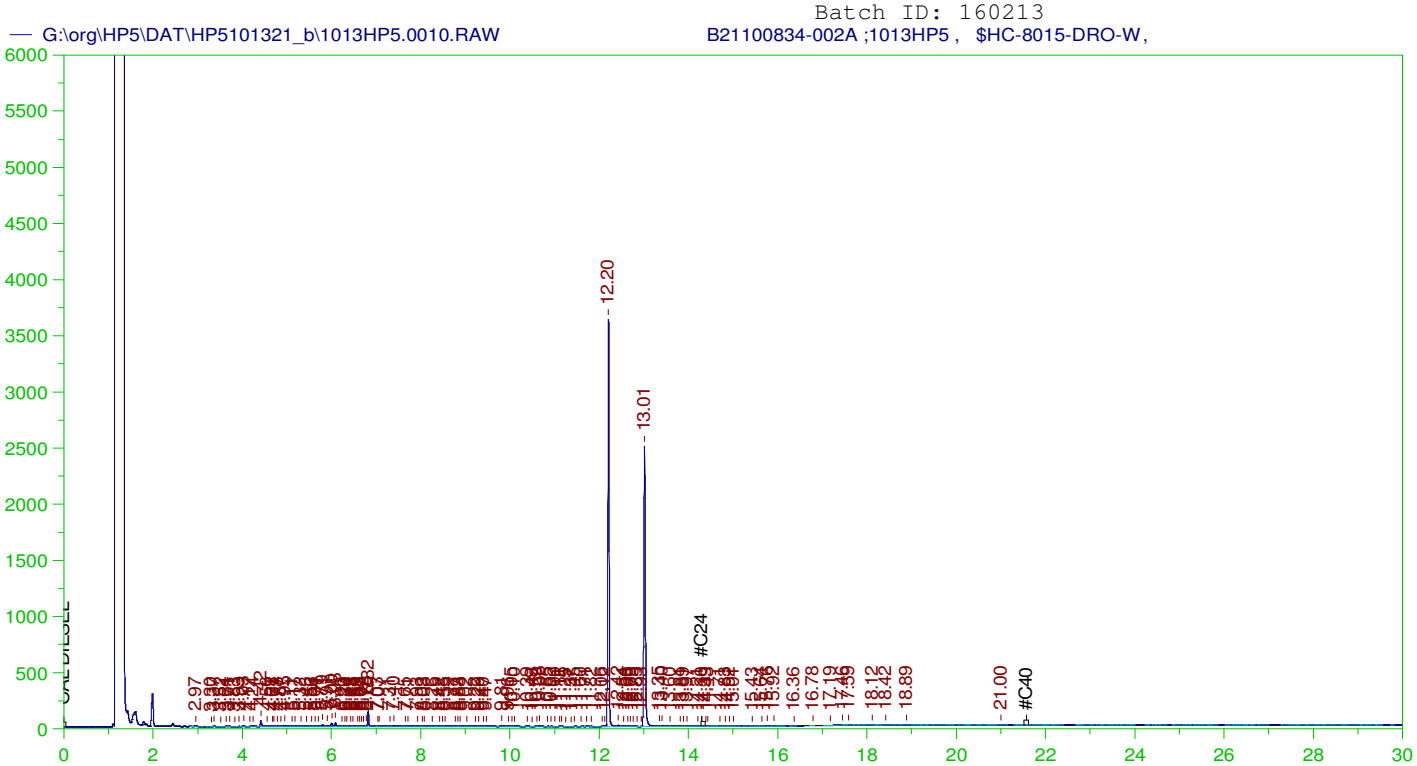
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

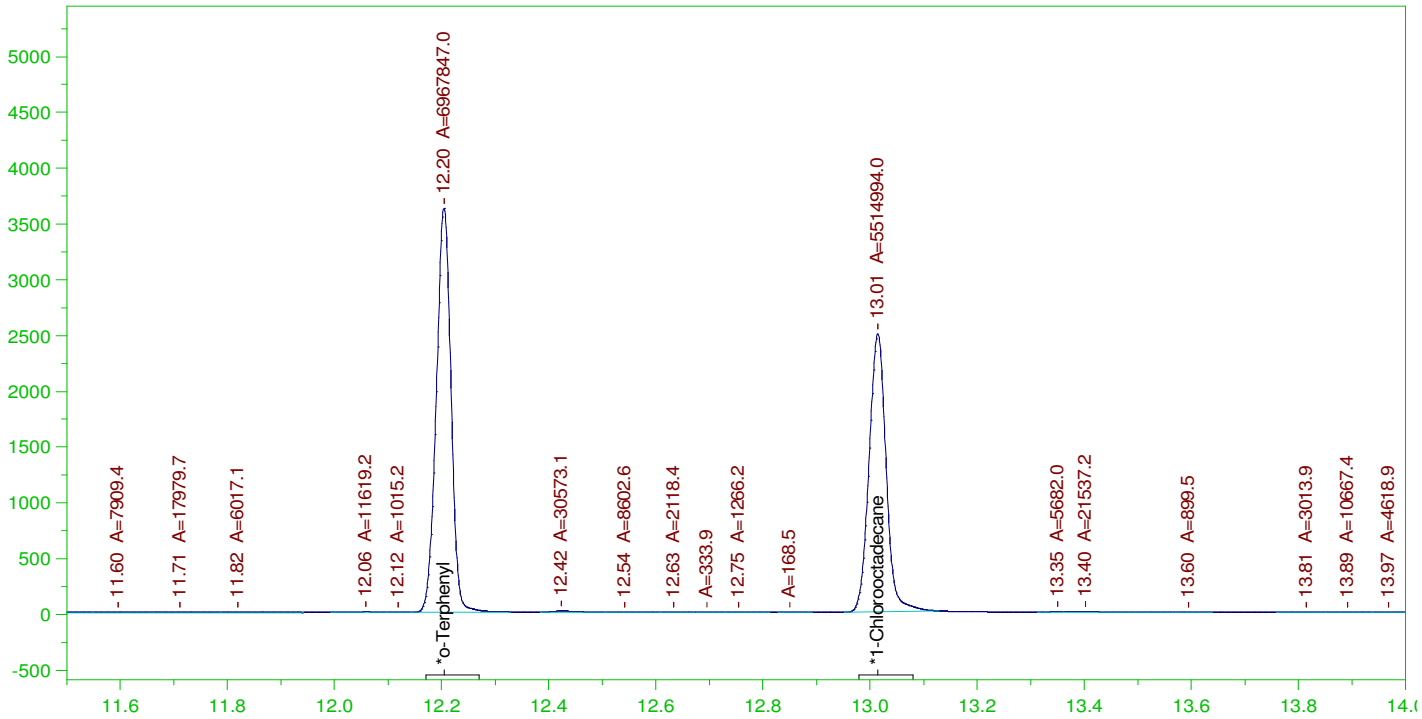
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:72106.56 RRO AMOUNT: 2.405996E-03

G:\org\HP5\dat\HP5101321_b\Review\010_B21100834-002A_DR_OIL-S-AJ-L%.xls

**ERH1773 (Field Blank)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW B21100834-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

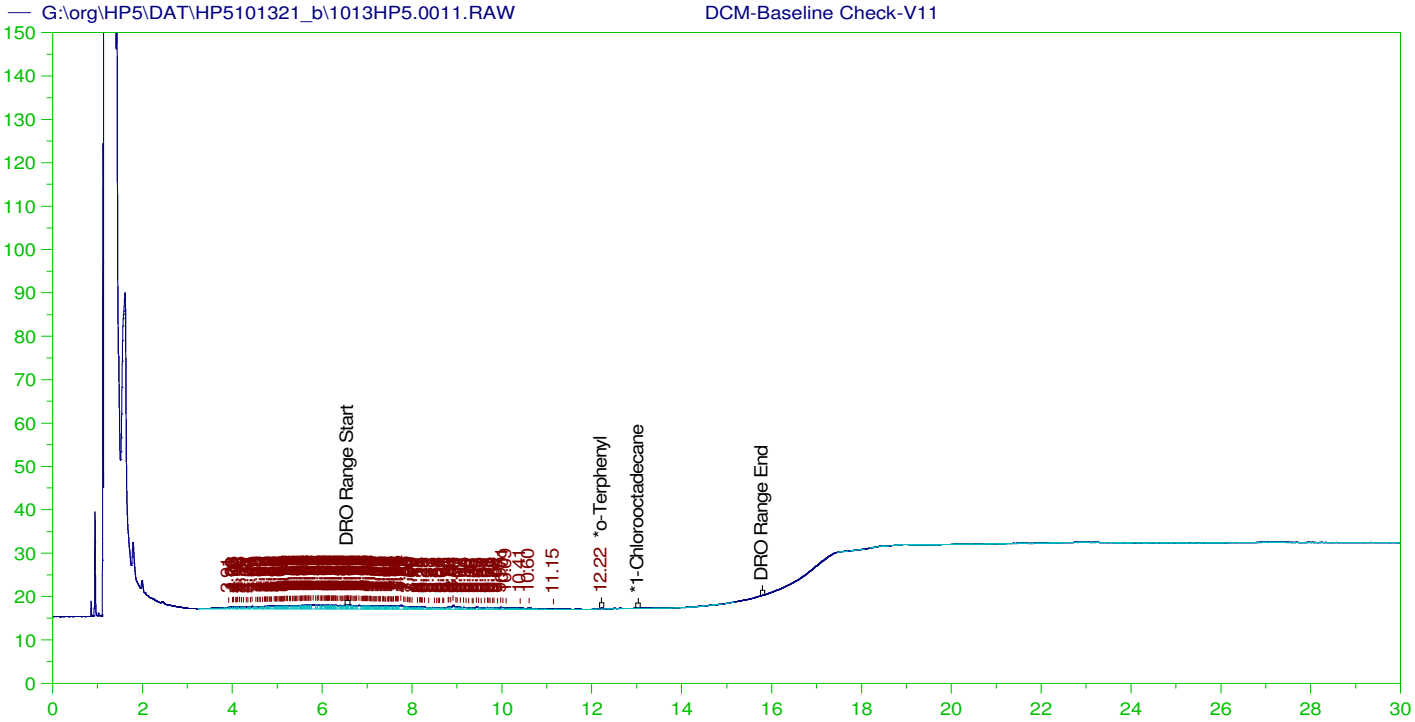
Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .19 | .189 | 99.34 | - |
| *1-Chlorooctadecane | 13.014 | .19 | .15 | 78.63 | - |

DRO Area:959395.5 DRO Amount: 3.101808E-02
TEH Area:1750559 TEH Amount: 5.659707E-02

G:\org\HP5\dat\HP5101321_b\Review\010_B21100834-002A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V11
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0011.RAW
Date & Time Acquired: 10/13/2021 9:02:18 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

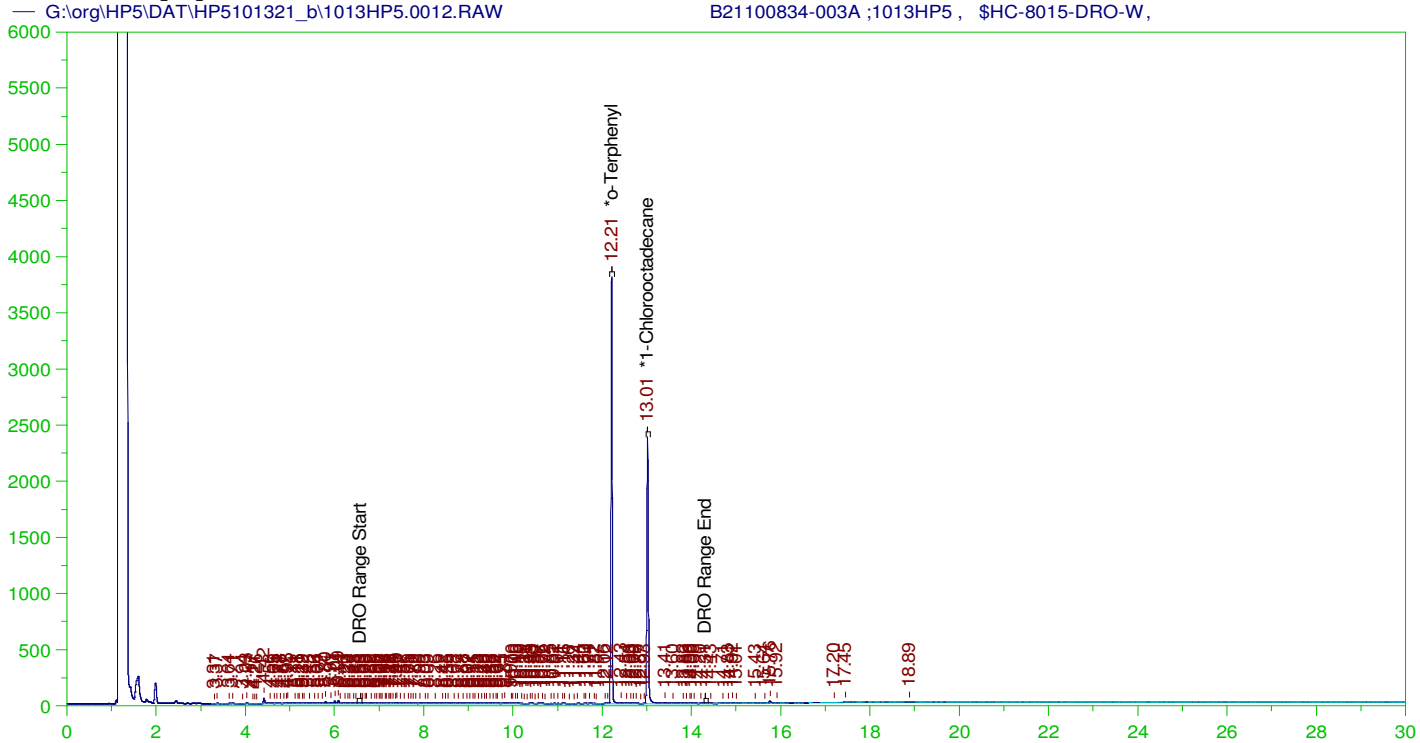
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.215 | 200. | .03 | .02 | - |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | - |

DRO Area:125980.2 DRO Amount: 4.276702
TEH Area:232059.3 TEH Amount: 7.87781

G:\org\HP5\dat\HP5101321_b\Review\011_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1774 (Equipment Blank)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW B21100834-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .192 | .199 | 103.31 | - |
| *1-Chlorooctadecane | 13.015 | .192 | .147 | 76.59 | - |

DRO Area:686756.1 DRO Amount: 2.241691E-02
TEH Area:1382057 TEH Amount: 4.511274E-02

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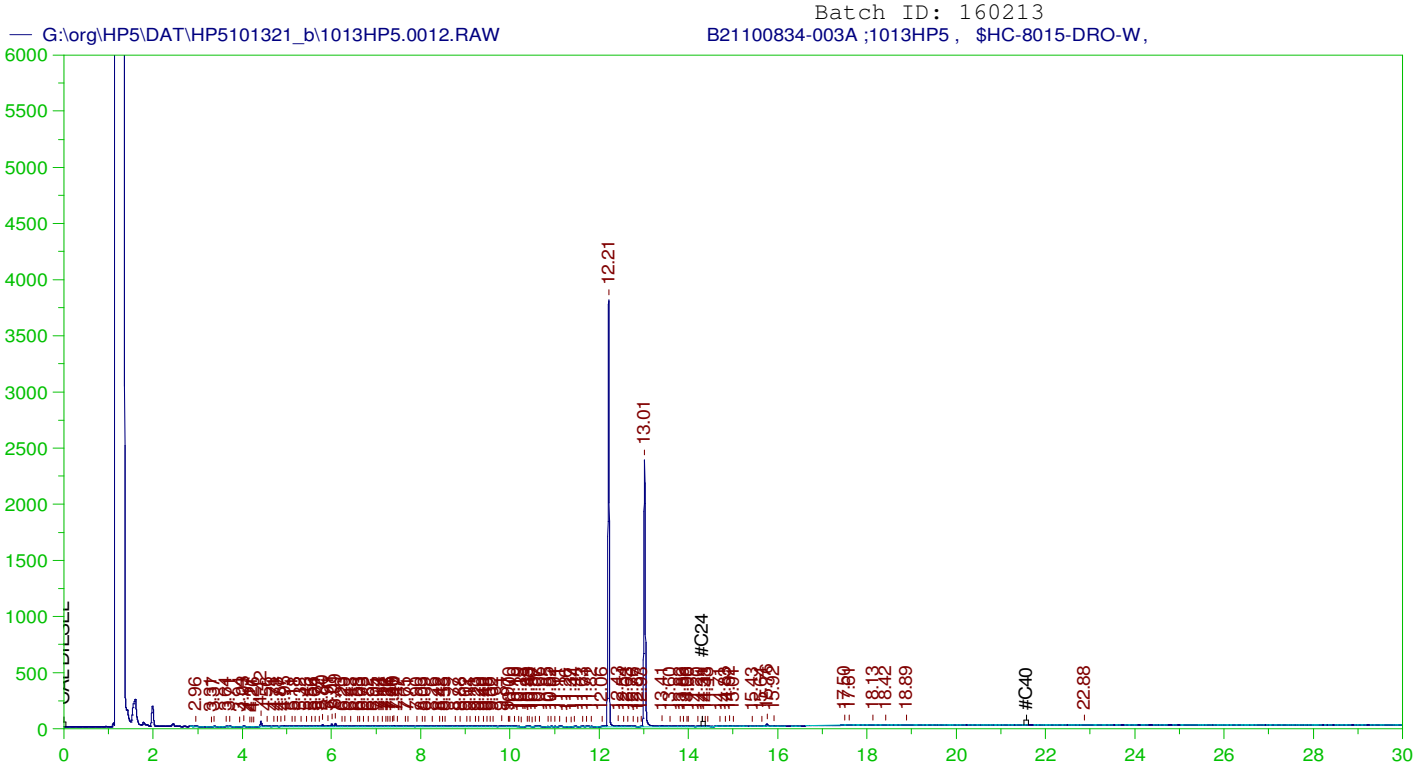
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

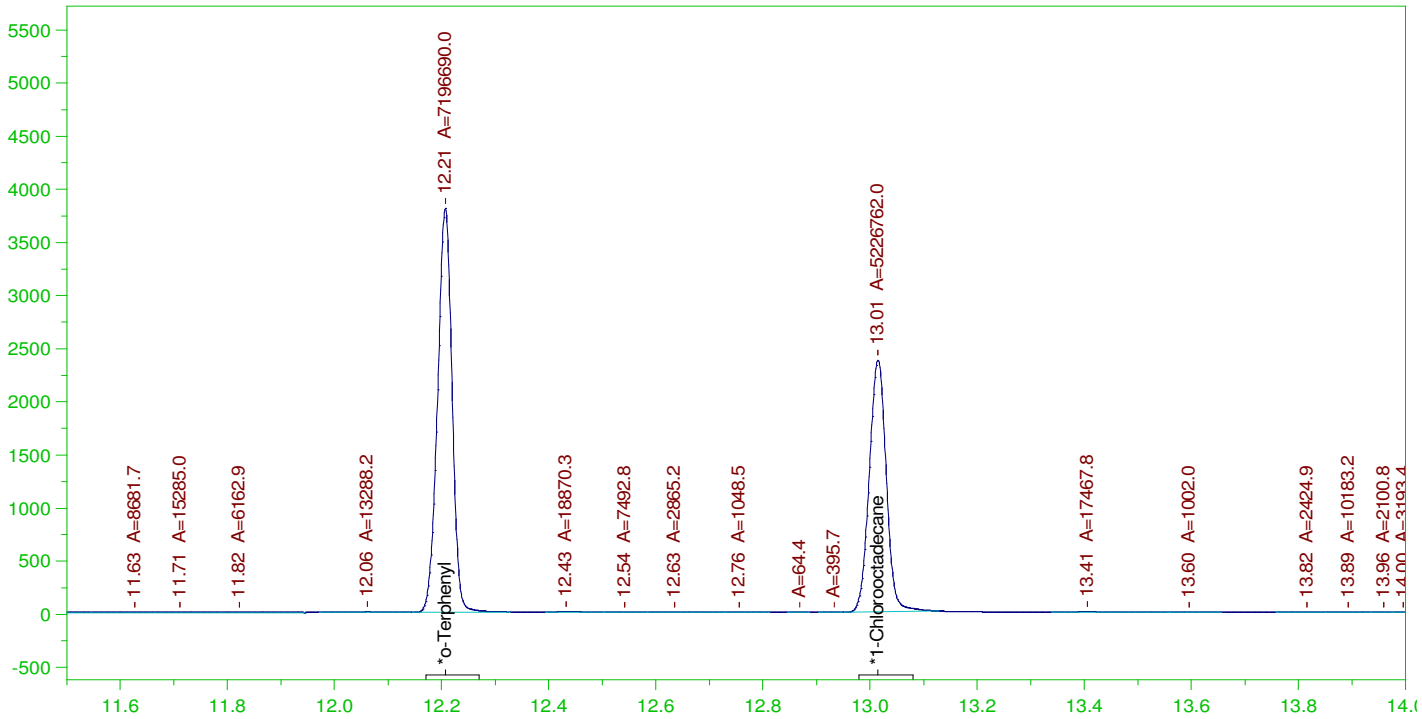
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:140112.2 RRO AMOUNT: 4.72011E-03

G:\org\HP5\dat\HP5101321_b\Review\012_B21100834-003A_DR_OIL-S-AJ-L%.xls

**ERH1774 (Equipment Blank)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW B21100834-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

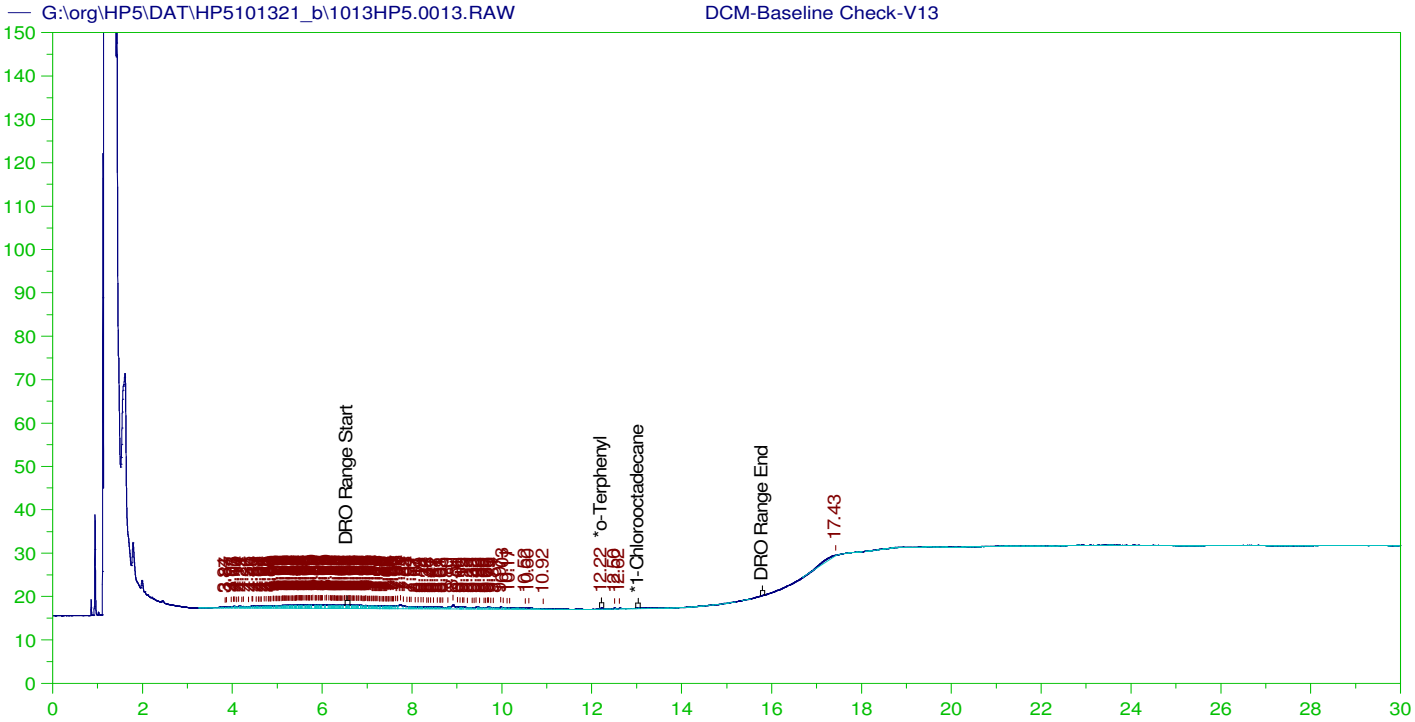
Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .192 | .197 | 102.6 | - |
| *1-Chlorooctadecane | 13.015 | .192 | .143 | 74.52 | - |

DRO Area:683442.3 DRO Amount: 2.230874E-02
TEH Area:1372858 TEH Amount: 4.481247E-02

G:\org\HP5\dat\HP5101321_b\Review\012_B21100834-003A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

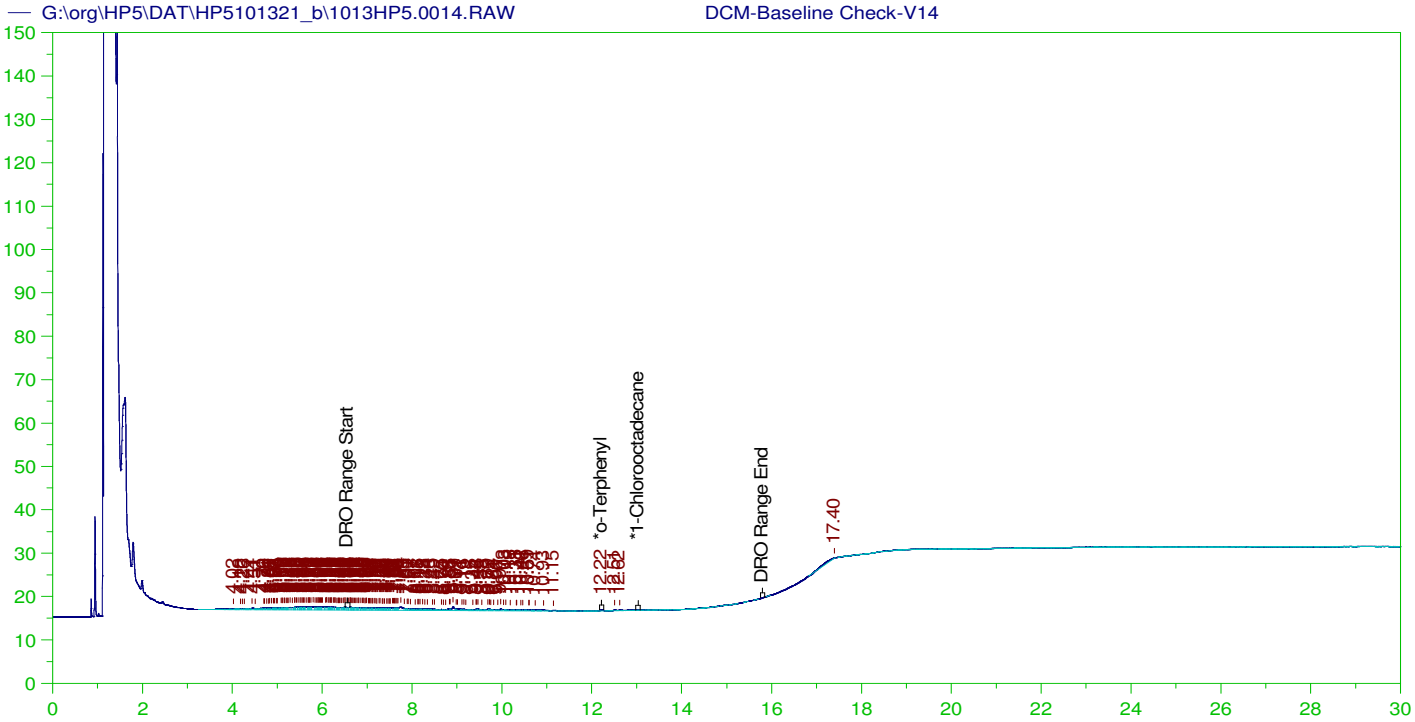
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0013.RAW
Date & Time Acquired: 10/13/2021 10:27:57 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.217 | 200. | .037 | .02 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:124999.8 DRO Amount: 4.24342
TEH Area:238903.8 TEH Amount: 8.110163

G:\org\HP5\dat\HP5101321_b\Review\013_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0014.RAW
Date & Time Acquired: 10/13/2021 11:10:47 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

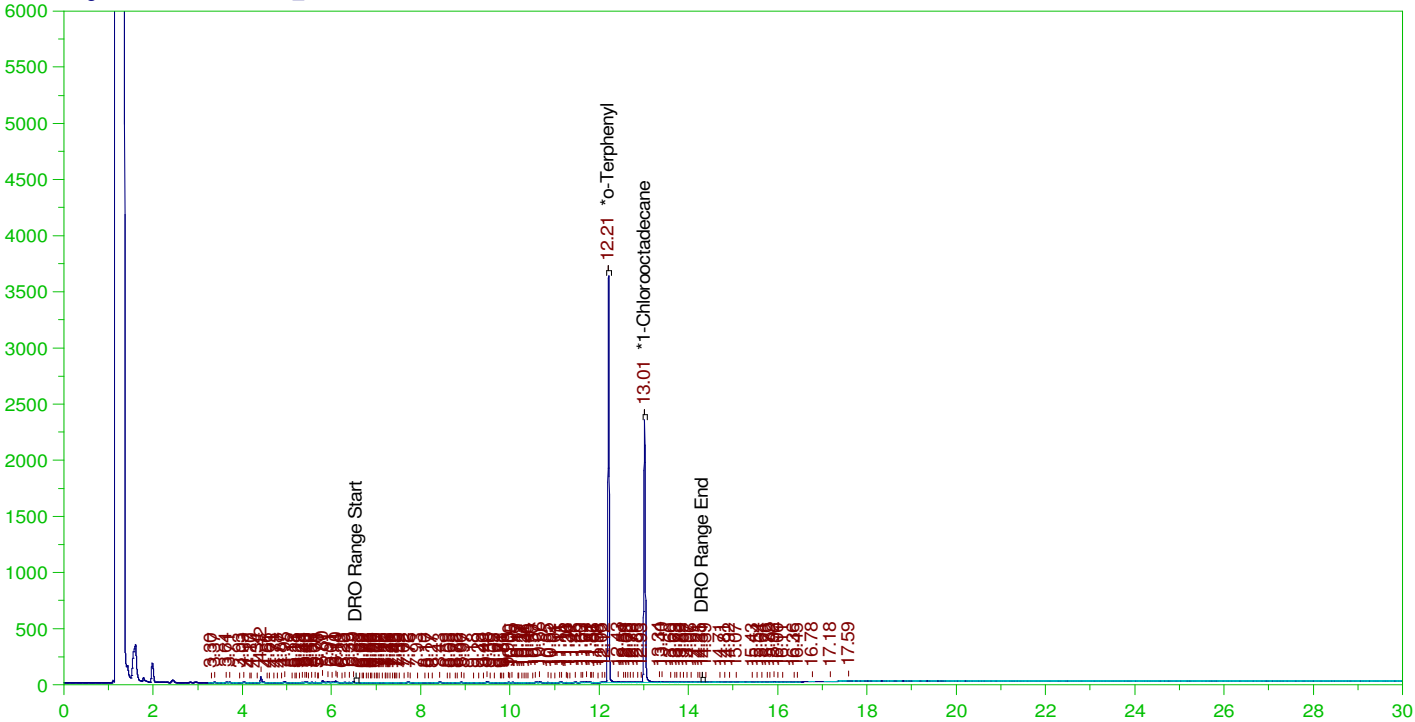
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | .038 | .02 | - |
| *1-Chlorooctadecane | 29.974 | 200. | . | . | - |

DRO Area:113632.2 DRO Amount: 3.857517
TEH Area:202332.9 TEH Amount: 6.868678

G:\org\HP5\dat\HP5101321_b\Review\014_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1779 (Prechlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW B21100827-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

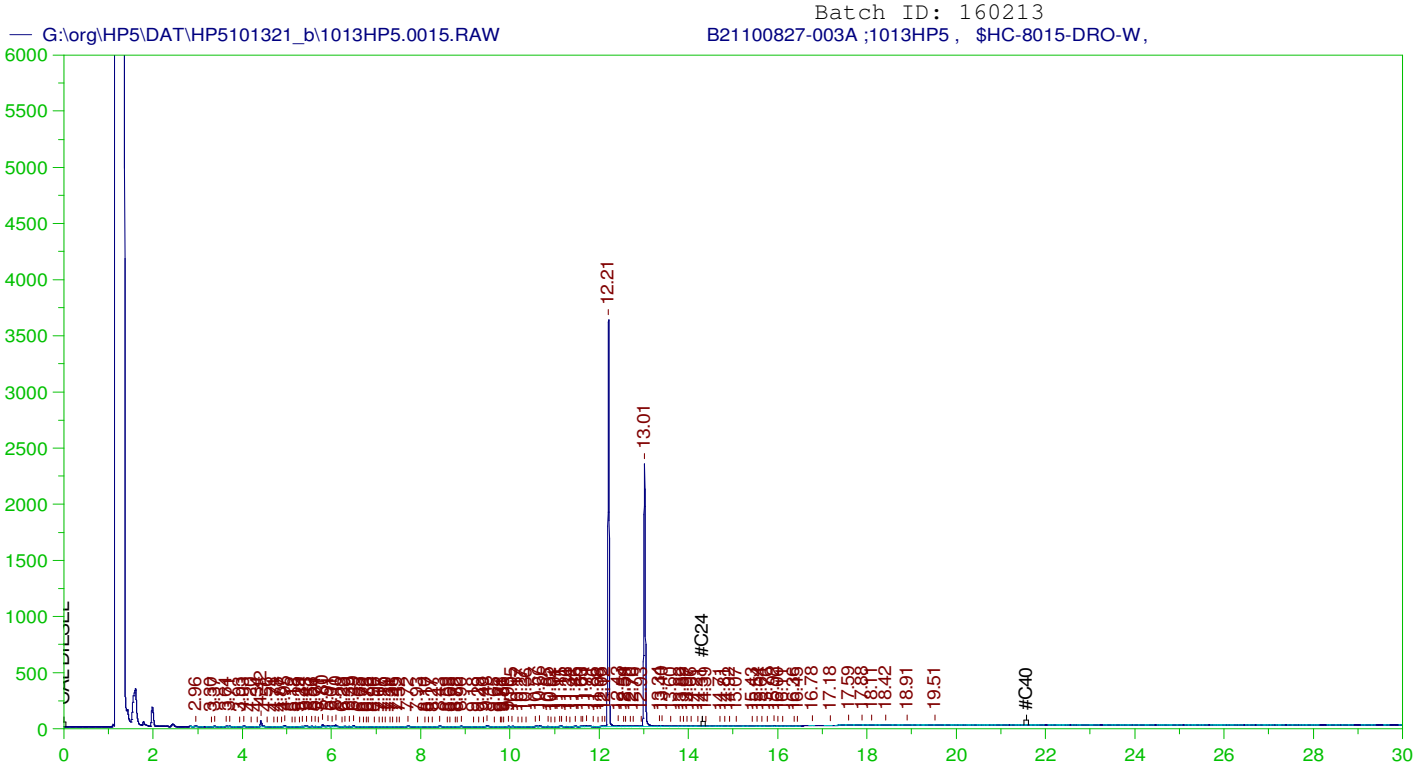
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.206 | .192 | .193 | 100.4 | - |
| *1-Chlorooctadecane | 13.014 | .192 | .144 | 74.93 | - |

DRO Area:452972.2 DRO Amount: 0.0147858
TEH Area:986708.3 TEH Amount: 3.220787E-02

G:\org\HP5\dat\HP5101321_b\Review\015_B21100827-003A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

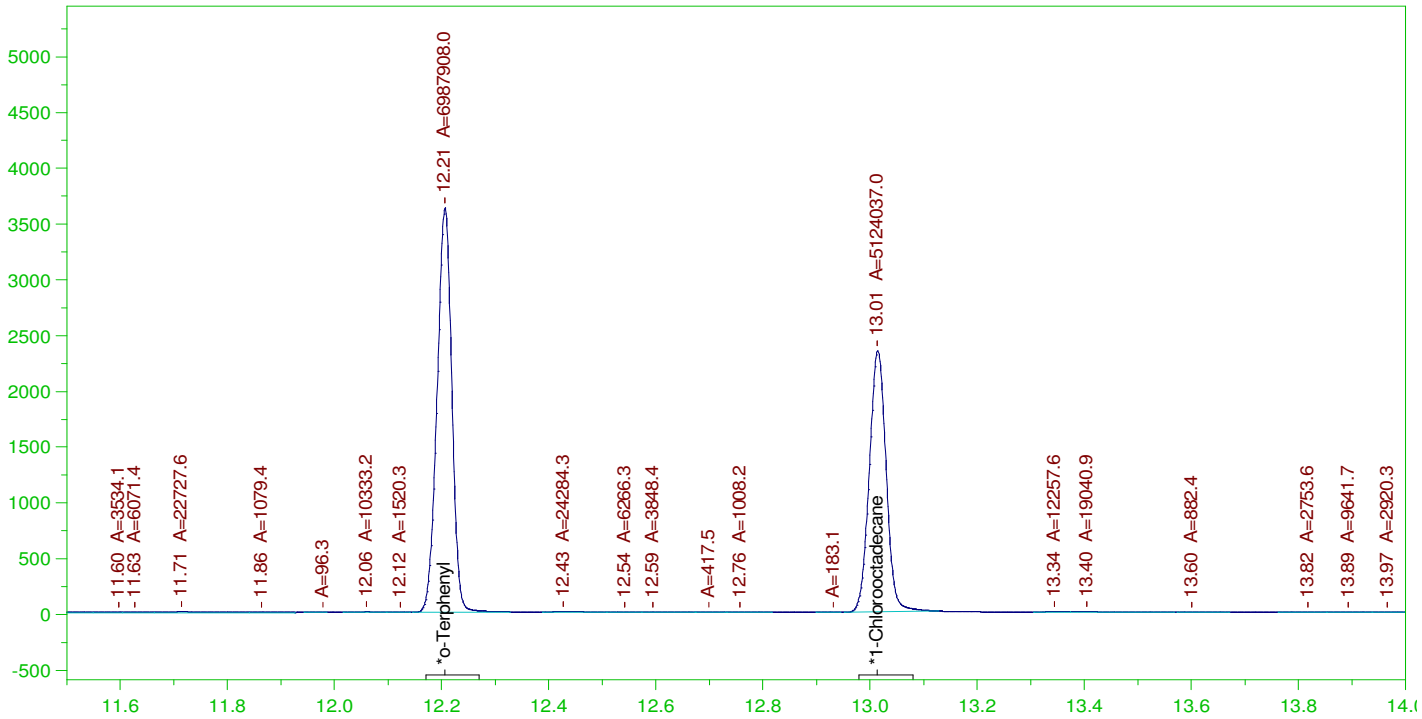
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:75508.58 RRO AMOUNT: 2.543738E-03

**ERH1779 (Prechlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW B21100827-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

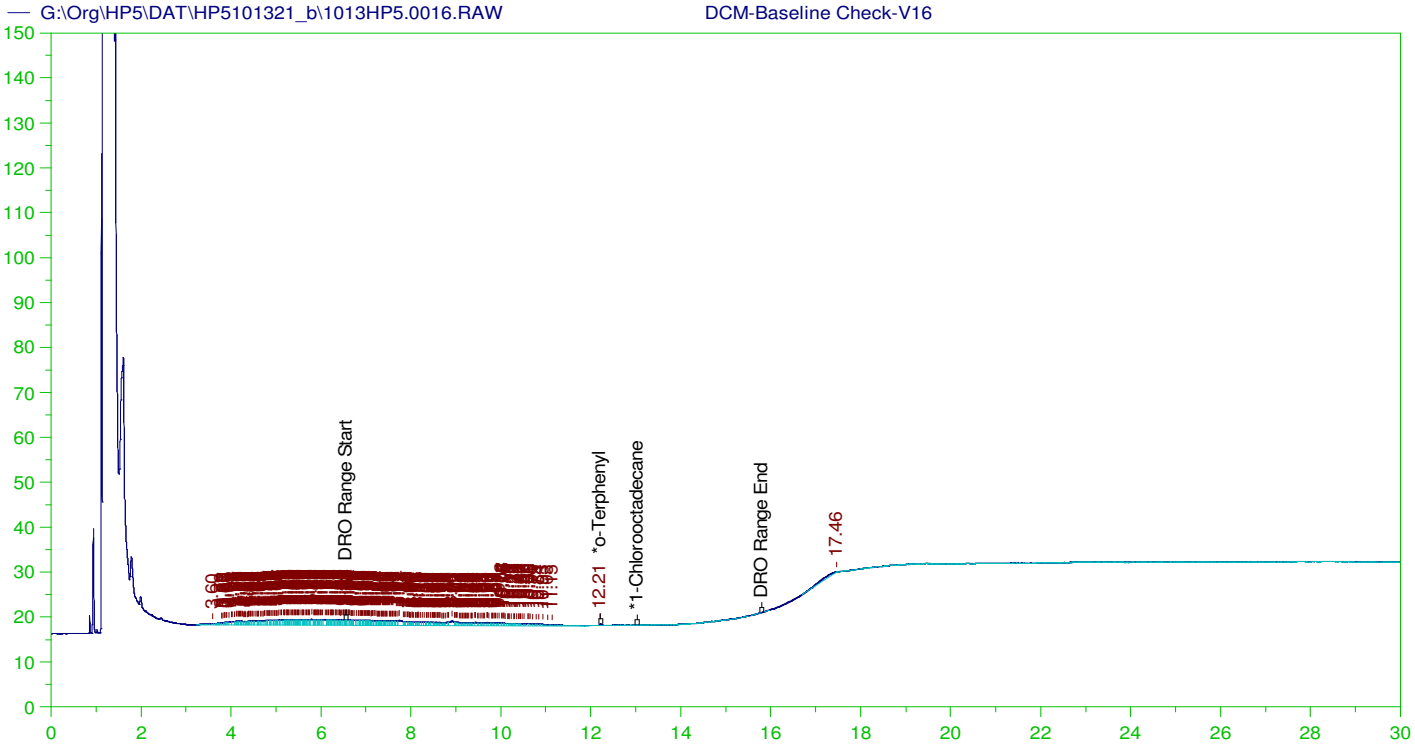
Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.206 | .192 | .192 | 99.62 | - |
| *1-Chlorooctadecane | 13.014 | .192 | .14 | 73.05 | - |

DRO Area:364376.3 DRO Amount: 1.189388E-02
TEH Area:937746.3 TEH Amount: 3.060967E-02

G:\org\HP5\dat\HP5101321_b\Review\015_B21100827-003A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

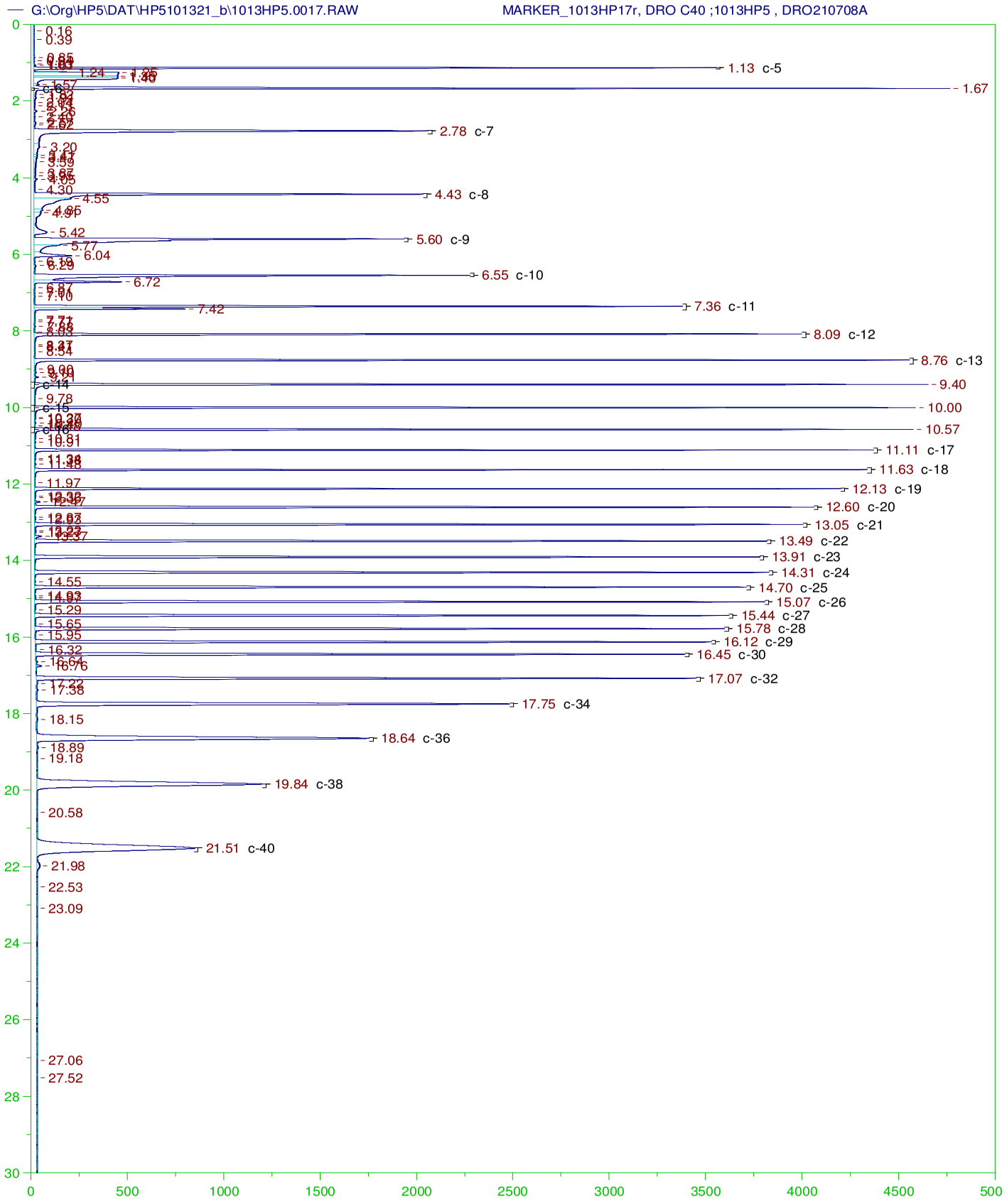
Sample Name: DCM-Baseline Check-V16
Raw File: G:\Org\HP5\DAT\HP5101321_b\1013HP5.0016.RAW
Date & Time Acquired: 10/14/2021 12:36:25 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-Lexp.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

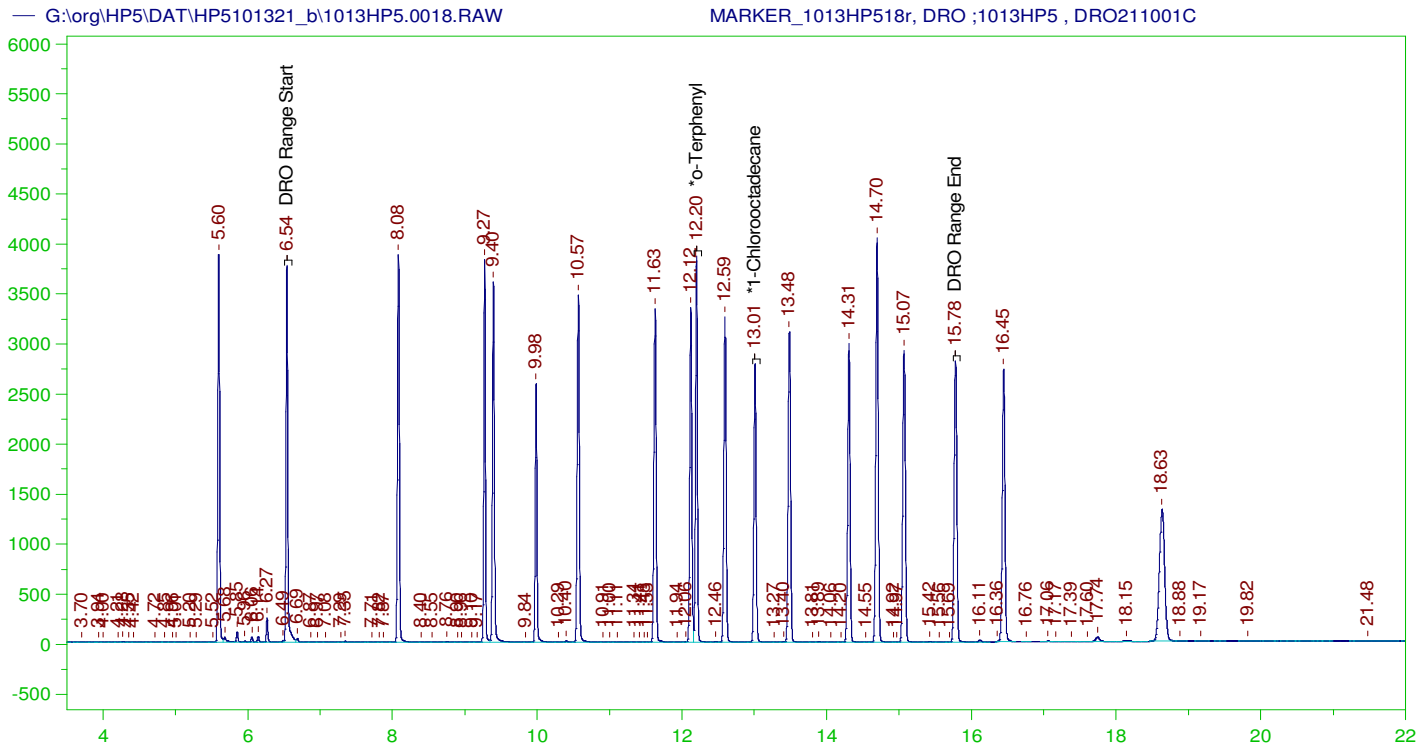
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.211 | 200. | .044 | .02 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:196251.2 DRO Amount: 6.662218
TEH Area:379018 TEH Amount: 12.86668

G:\org\HP5\dat\HP5101321_b\Review\016_DCM-Baseline Chec_DR_8015-HS-Lexp.xls


G:\Org\HP5\DAT\HP5101321_b\1013HP5.0017.RAW
MARKER_1013HP17r, DRO C40 ;1013HP5 , DRO210708A
1.13 c-5
1.67
2.78 c-7
4.43 c-8
5.60 c-9
6.55 c-10
7.36 c-11
8.09 c-12
8.76 c-13
9.40
10.00
10.57
11.11 c-17
11.63 c-18
12.13 c-19
12.60 c-20
13.05 c-21
13.49 c-22
13.91 c-23
14.31 c-24
14.70 c-25
15.07 c-26
15.44 c-27
15.78 c-28
16.12 c-29
16.45 c-30
17.07 c-32
17.75 c-34
18.64 c-36
19.84 c-38
21.51 c-40
G:\org\HP5\dat\HP5101321_b\Review\017_MARKER_1013HP17r_CSC211011.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

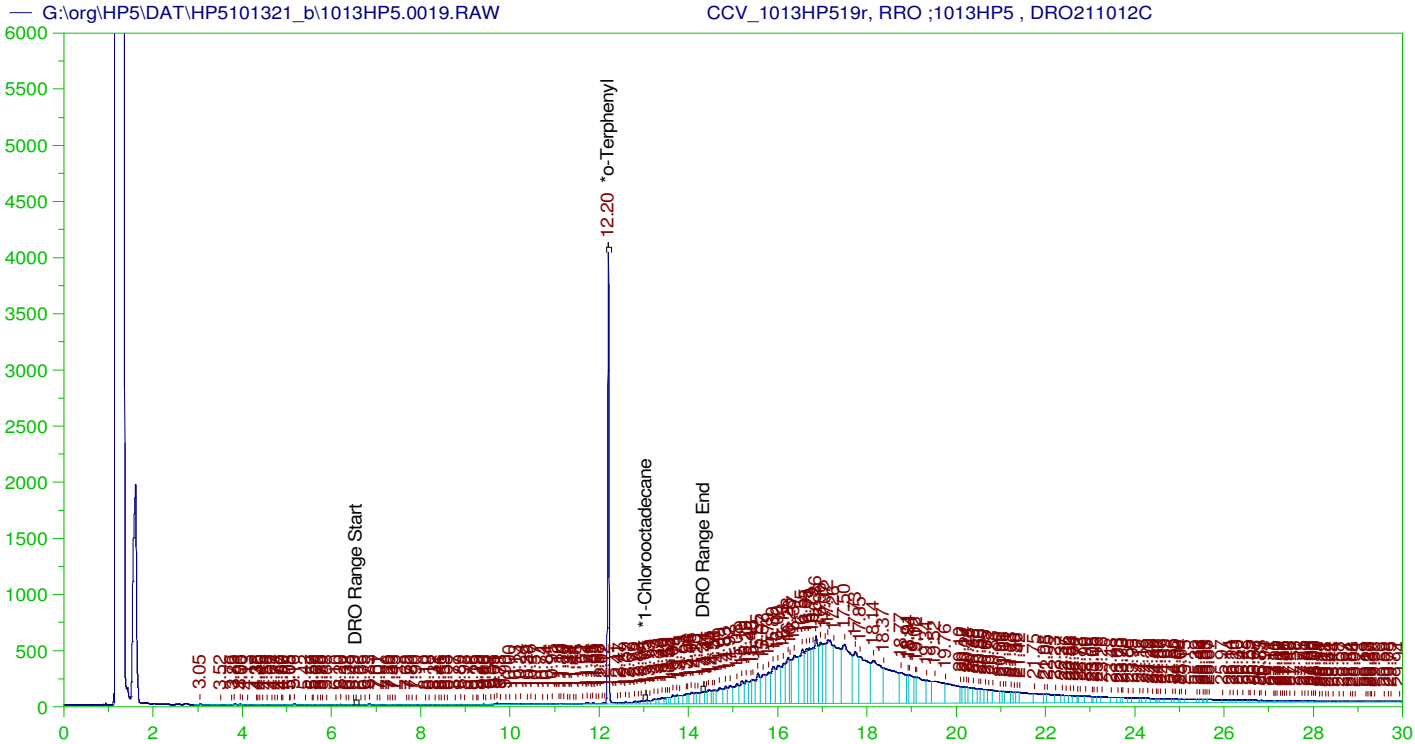
Sample Name: MARKER_1013HP518r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0018.RAW
Date & Time Acquired: 10/14/2021 2:01:56 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 210.929 | 105.46 | - |
| *1-Chlorooctadecane | 13.01 | 200. | 170.869 | 85.43 | - |

DRO Area:9.643527E+07 DRO Amount: 3273.727
TEH Area:1.179968E+08 TEH Amount: 4005.684

G:\org\HP5\dat\HP5101321_b\Review\018_MARKER_1013HP518r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP519r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW
Date & Time Acquired: 10/14/2021 2:44:39 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 225.67 | 112.84 | - |
| *1-Chlorooctadecane | 13.05 | 200. | 4.38 | 2.19 | - |

DRO Area:6668142 DRO Amount: 233.6222
TEH (Oil Range) Area:1.354669E+08 TEH (Oil Range) Amount: 4746.161

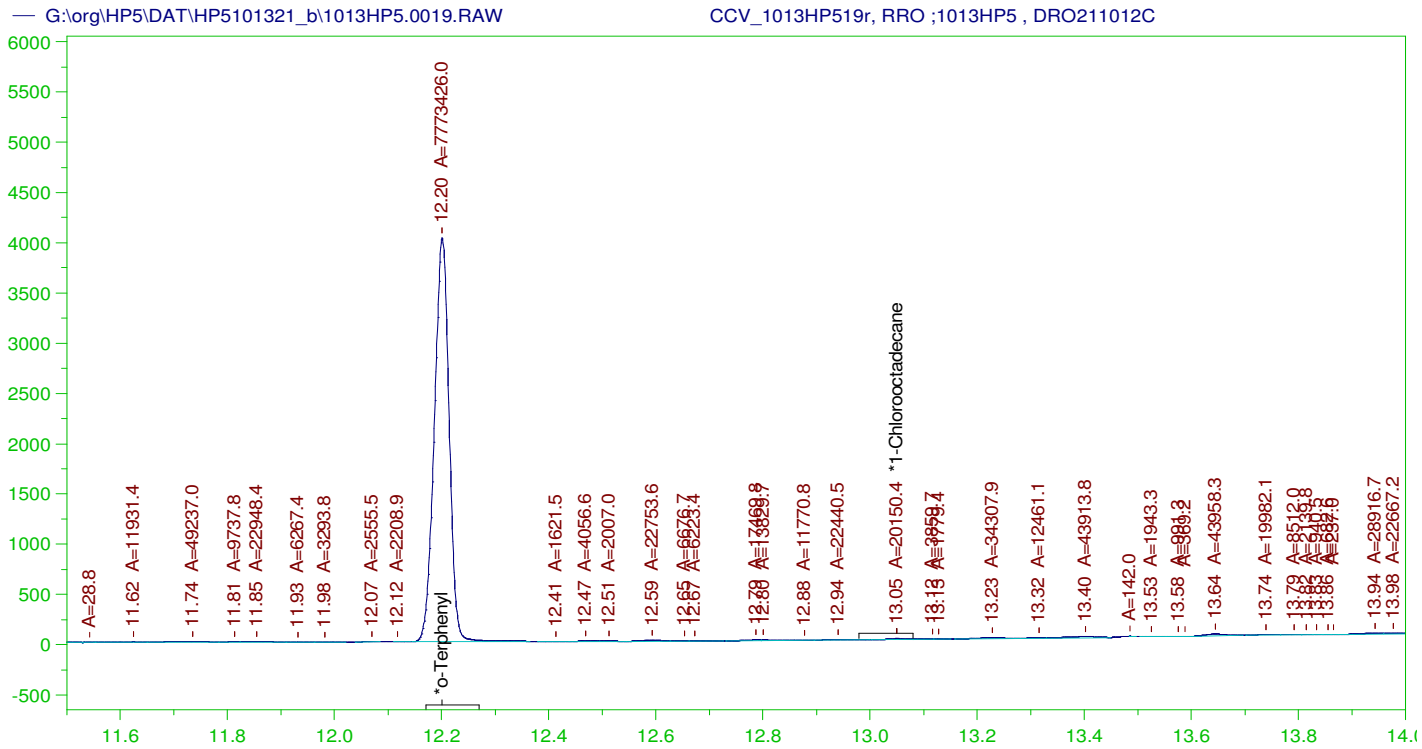
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4746.16 | 94.92 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 225.67 | 112.84 | 85-115 |
| *1-Chlorooctadecane | 13.05 | 200. | 4.38 | 2.19 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\019_CCV_1013HP519r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP519r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW
Date & Time Acquired: 10/14/2021 2:44:39 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 221.647 | 110.82 | - |
| *1-Chlorooctadecane | 13.05 | 200. | .575 | .29 | - |

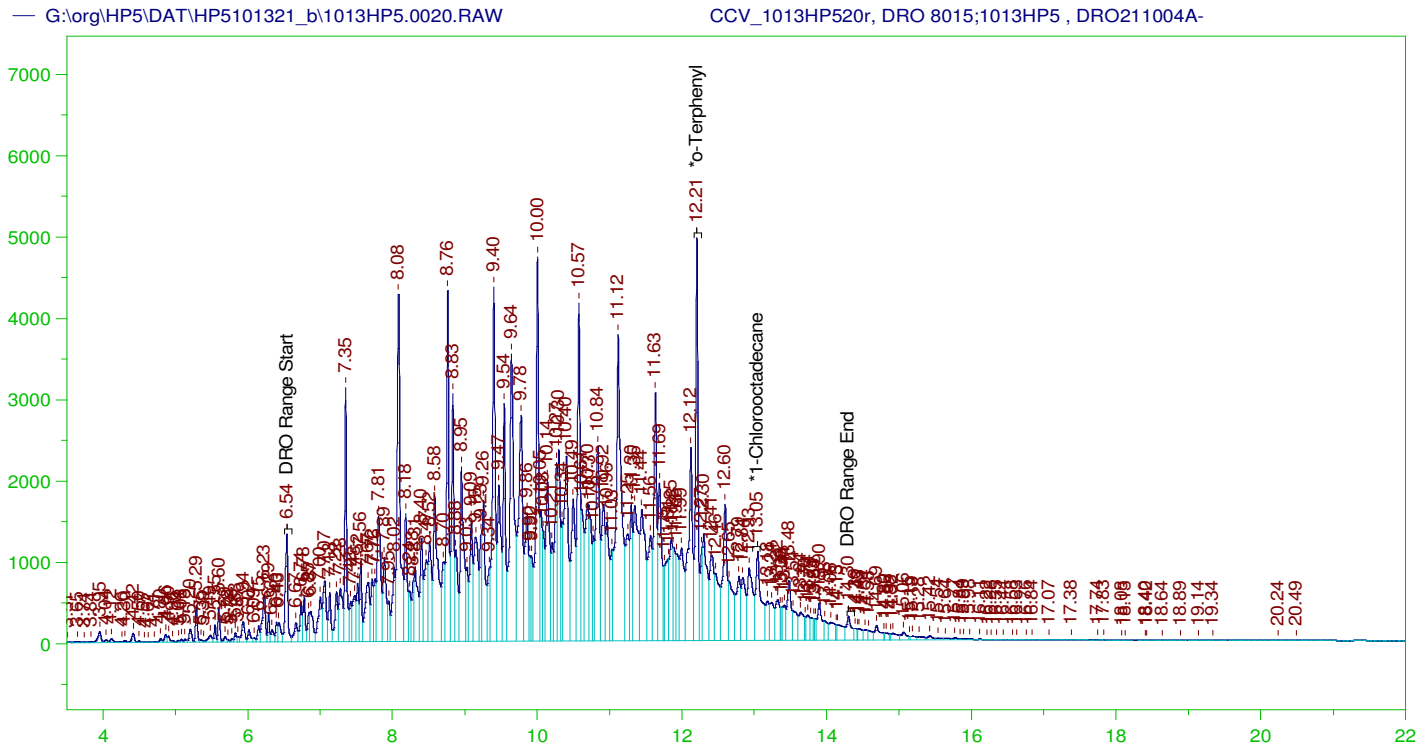
DRO Area:830514.8 DRO Amount: 29.09757
TEH Area:2146539 TEH Amount: 75.20523

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 75.21 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 221.647 | 110.82 | 85-115 |
| *1-Chlorooctadecane | 13.05 | 200. | .575 | .29 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\019_CCV_1013HP519r_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW
Date & Time Acquired: 10/14/2021 3:27:25 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 352.976 | 176.49 | - |
| *1-Chlorooctadecane | 13.045 | 200. | 159.505 | 79.75 | - |

DRO Area:4.642708E+08 DRO Amount: 15760.79
TEH Area:4.811138E+08 TEH Amount: 16332.56

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16332.56 | 108.88 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 352.976 | 176.49 | 85-115 |
| *1-Chlorooctadecane | 13.045 | 200. | 159.505 | 79.75 | 85-115 |

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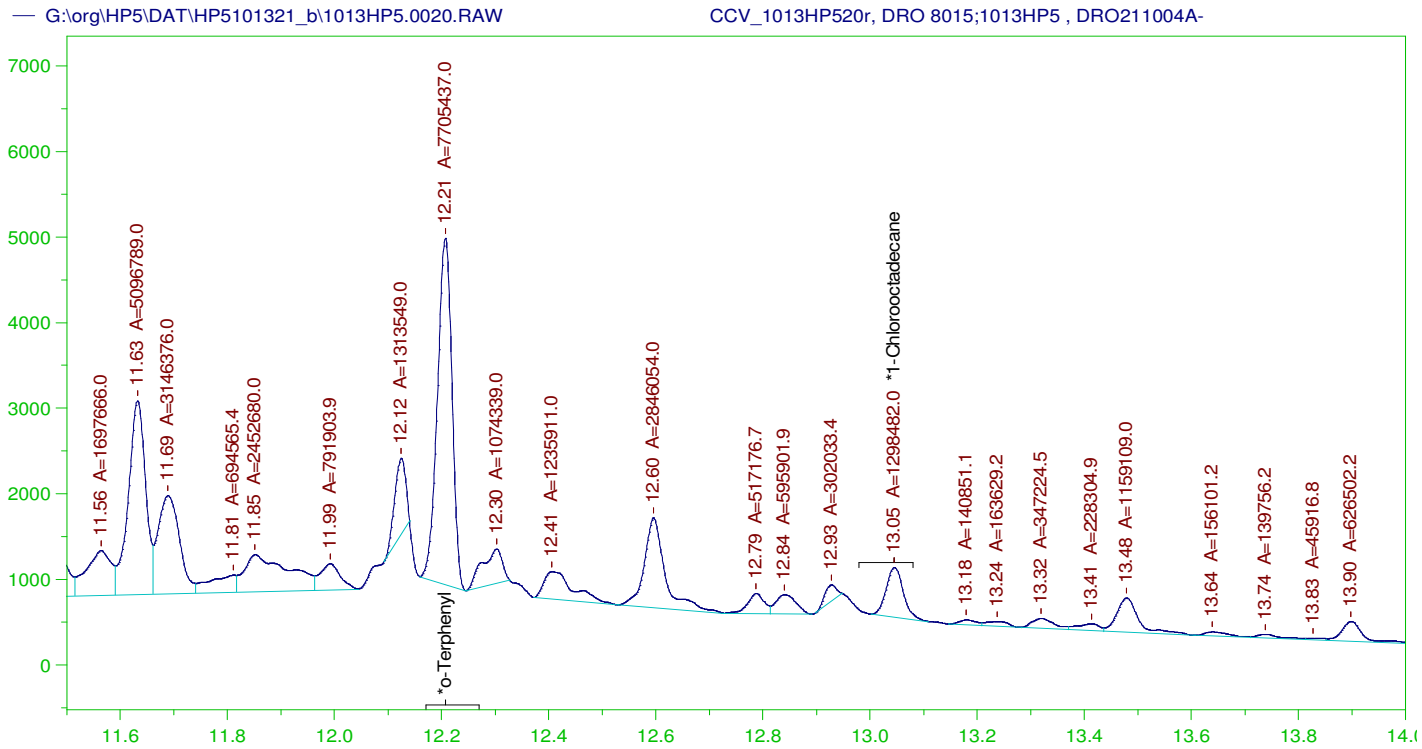


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW
Date & Time Acquired: 10/14/2021 3:27:25 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 219.708 | 109.85 | - |
| *1-Chlorooctadecane | 13.045 | 200. | 37.024 | 18.51 | - |

DRO Area:2.587795E+08 DRO Amount: 8784.894
TEH Area:2.68636E+08 TEH Amount: 9119.495

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9119.5 | 60.8 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 219.708 | 109.85 | 85-115 |
| *1-Chlorooctadecane | 13.045 | 200. | 37.024 | 18.51 | 85-115 |

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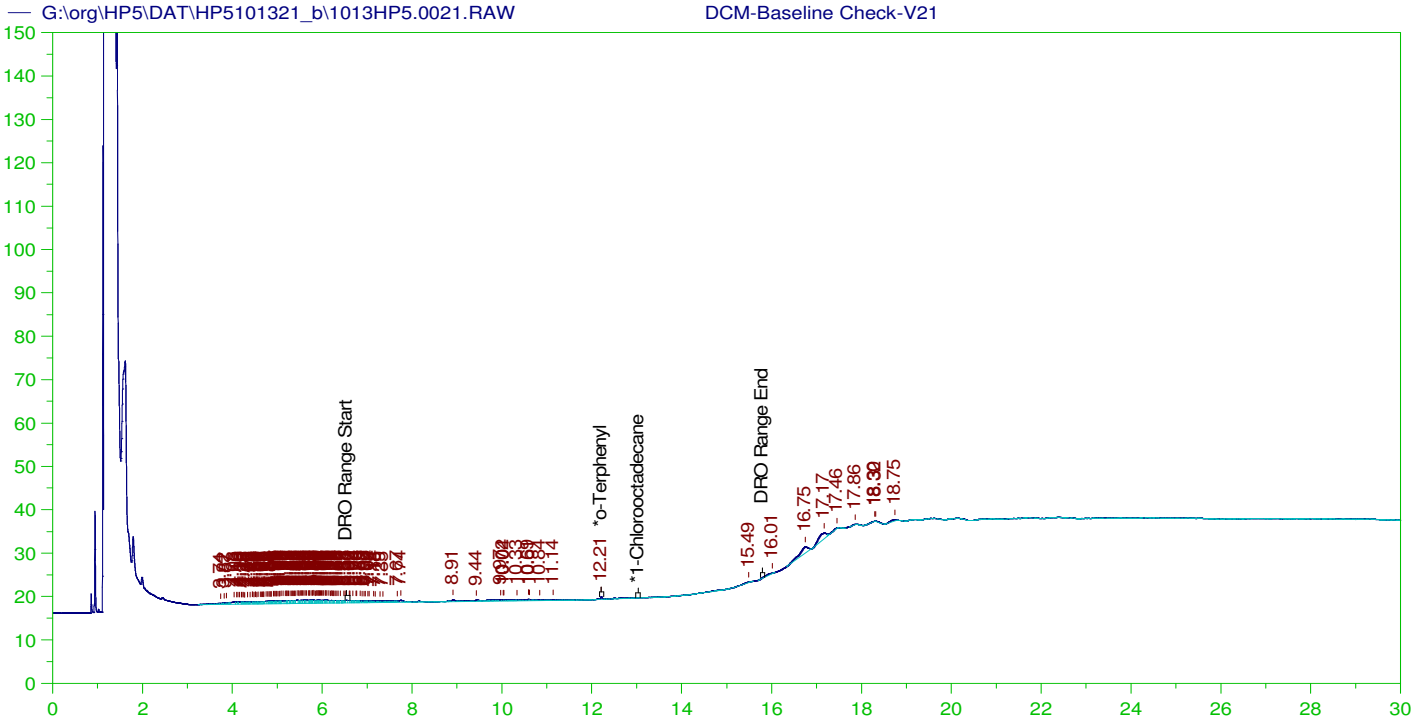



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V21
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0021.RAW
Date & Time Acquired: 10/14/2021 4:10:09 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

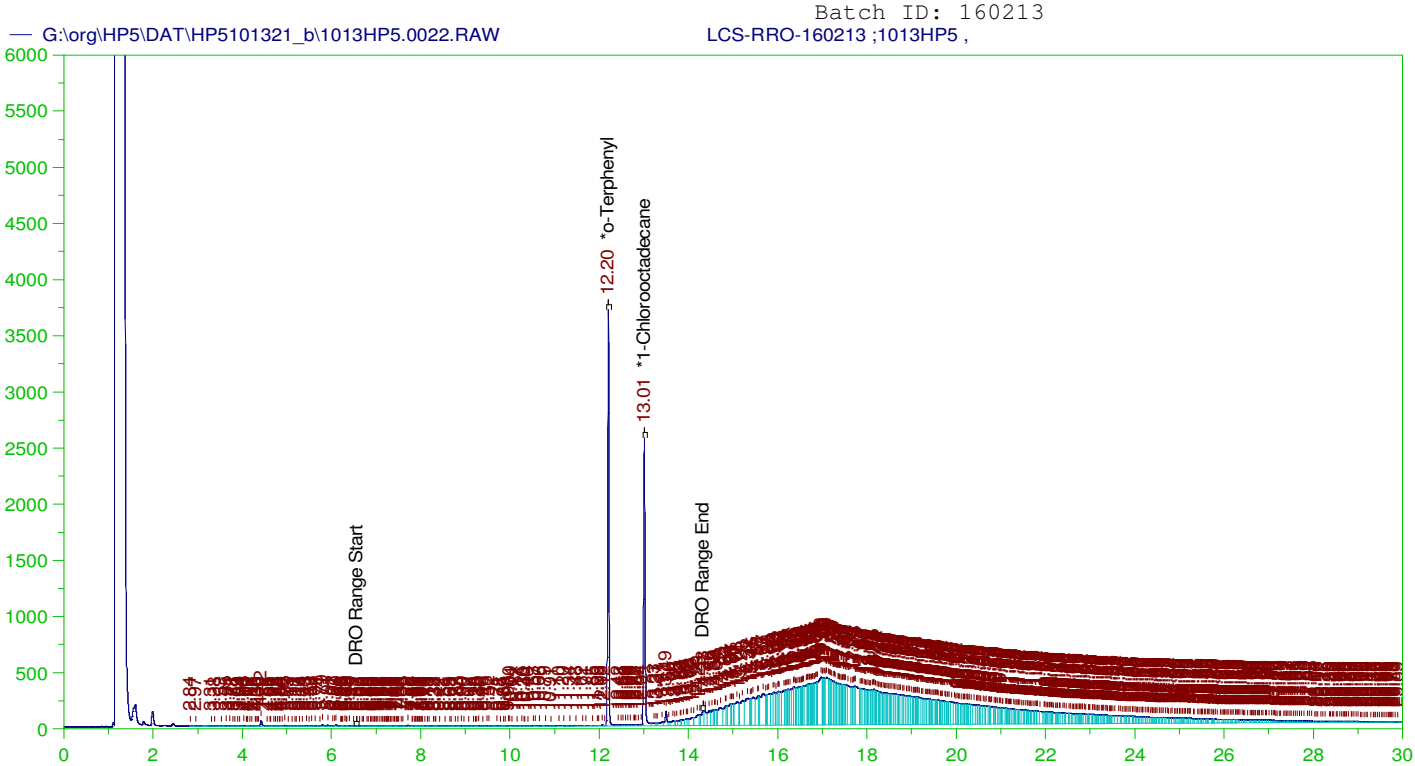
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.205 | 200. | .054 | .03 | - |
| *1-Chlorooctadecane | 29.994 | 200. | . | . | - |

DRO Area:69726.66 DRO Amount: 2.367039
TEH Area:224337.8 TEH Amount: 7.615685

G:\org\HP5\dat\HP5101321_b\Review\021_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-RRO-160213 ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0022.RAW
Date & Time Acquired: 10/14/2021 4:52:52 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

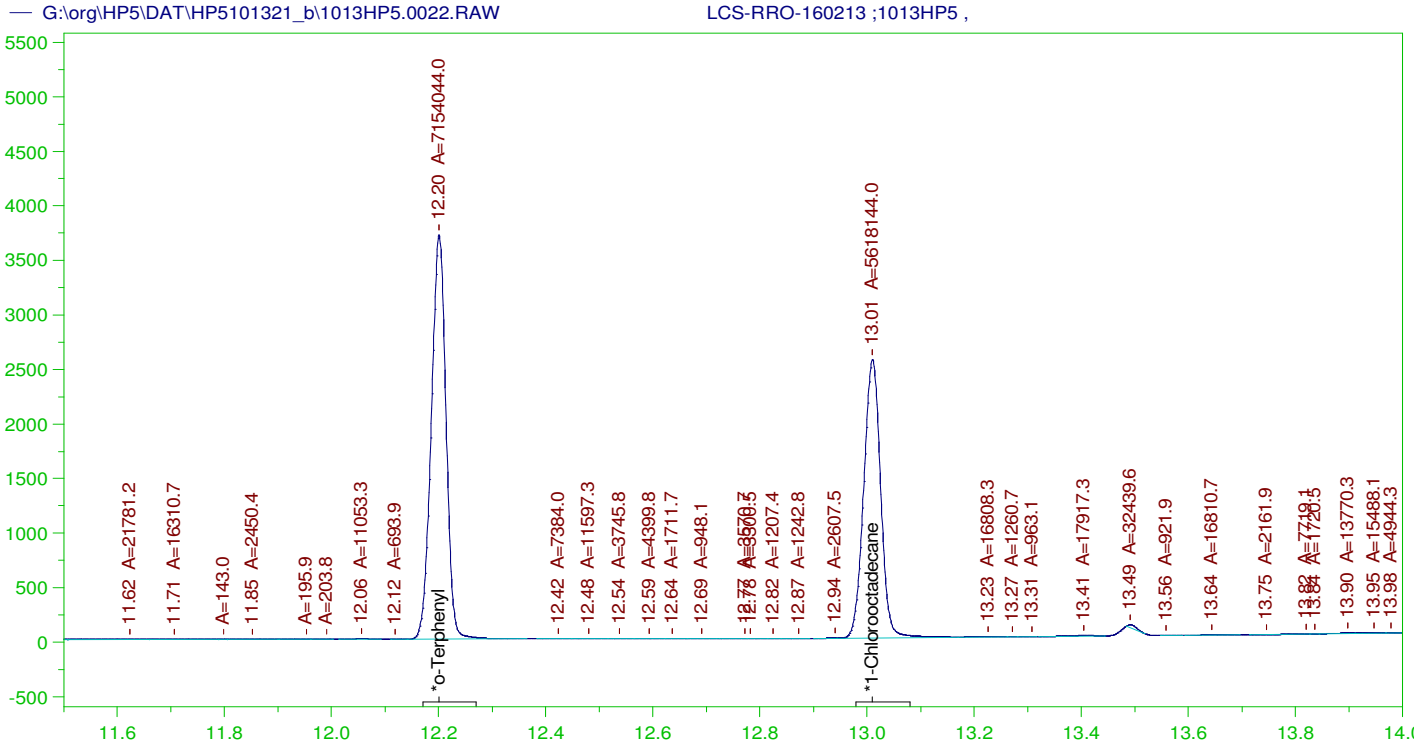
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | .2 | .206 | 102.76 | - |
| *1-Chlorooctadecane | 13.01 | .2 | .165 | 82.6 | - |

DRO Area:4899232 DRO Amount: 0.1716474
TEH (Oil Range) Area:1.333335E+08 TEH (Oil Range) Amount: 4.671418

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\022_LCS-RRO-160213_D3_OIL-AJ-L%.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

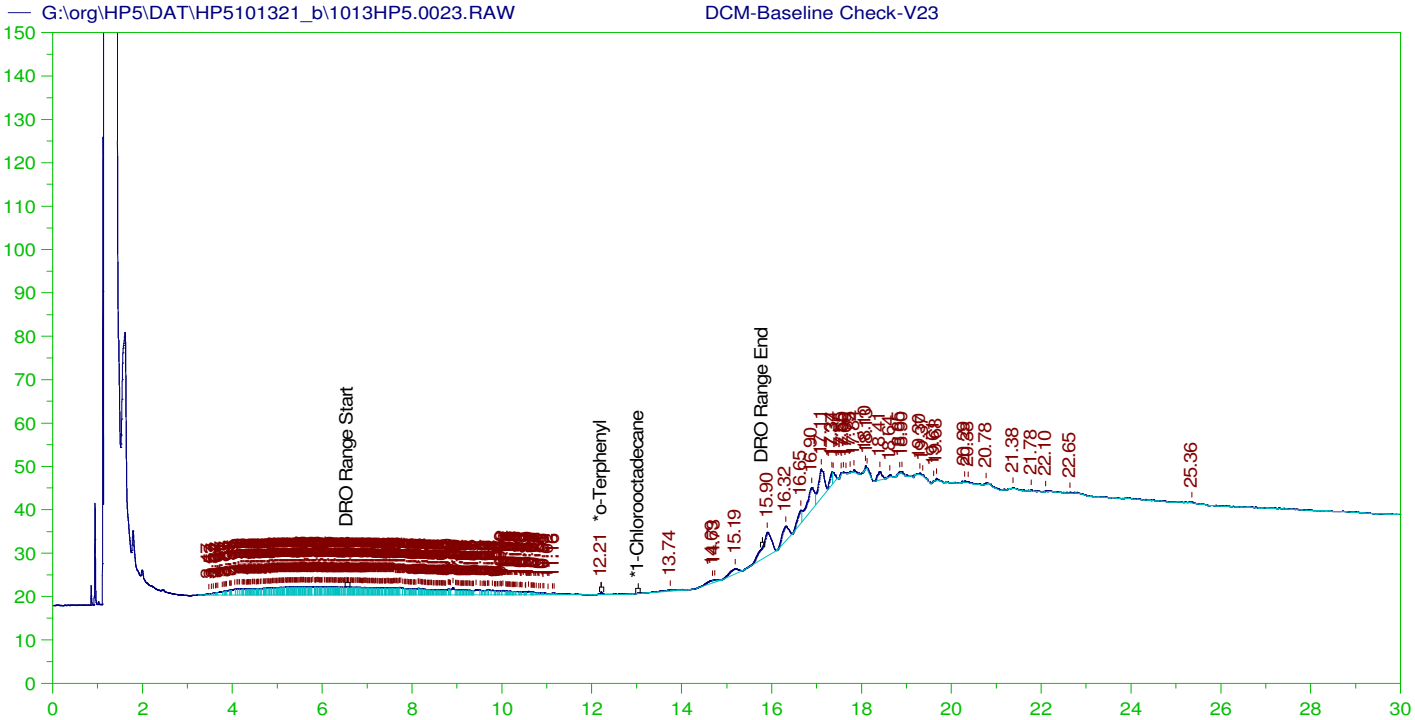
Sample Name: LCS-RRO-160213 ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0022.RAW
Date & Time Acquired: 10/14/2021 4:52:52 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | .2 | .204 | 101.99 | - |
| *1-Chlorooctadecane | 13.01 | .2 | .16 | 80.1 | - |

DRO Area:864747.1 DRO Amount: 3.029692E-02
TEH Area:2774749 TEH Amount: 9.721494E-02

G:\org\HP5\dat\HP5101321_b\Review\022_LCS-RRO-160213_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V23
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0023.RAW
Date & Time Acquired: 10/14/2021 5:35:35 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

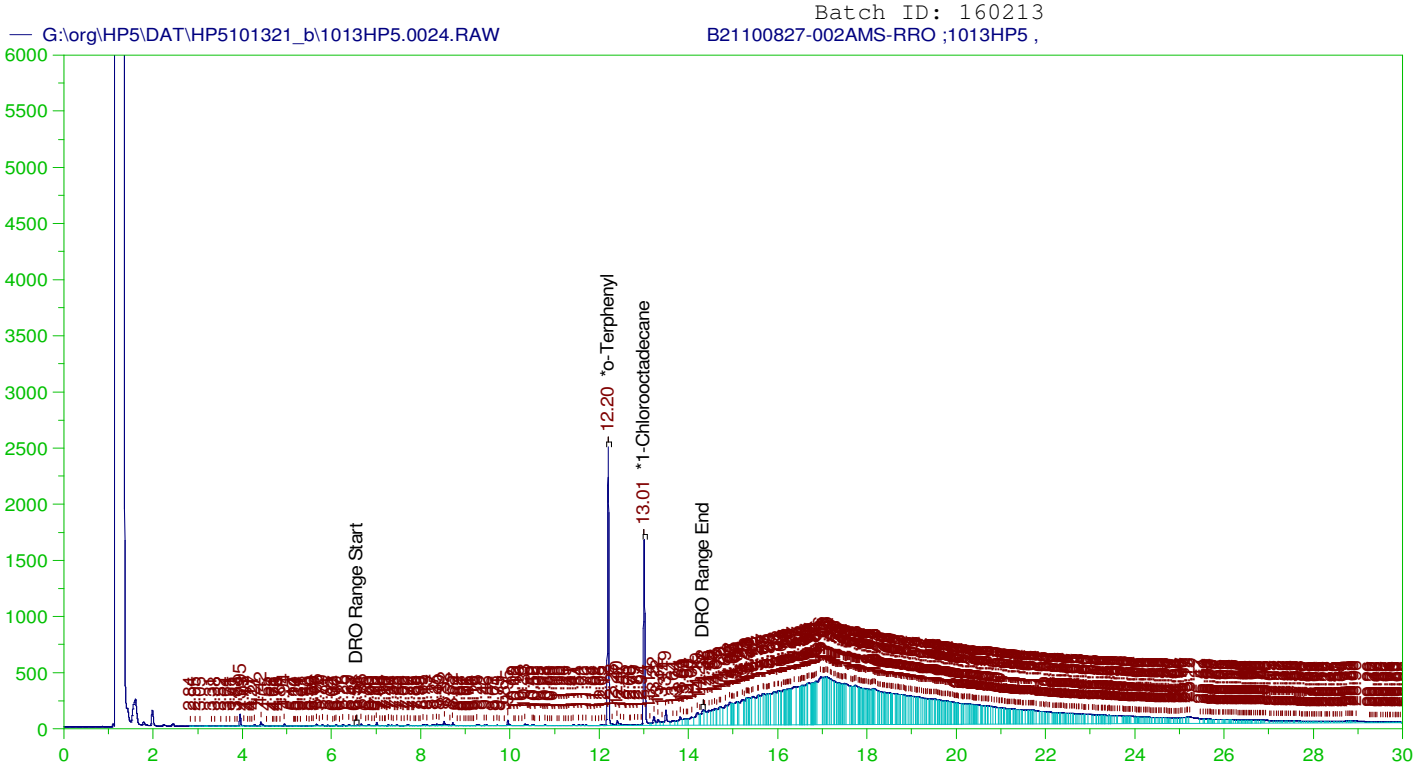
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.209 | 200. | .056 | .03 | - |
| *1-Chlorooctadecane | 29.943 | 200. | . | . | - |

DRO Area:365605.4 DRO Amount: 12.41136
TEH Area:990599.7 TEH Amount: 33.62829

G:\org\HP5\dat\HP5101321_b\Review\023_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0024.RAW
Date & Time Acquired: 10/14/2021 6:18:21 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.197 | .388 | .266 | 68.47 | - |
| *1-Chlorooctadecane | 13.007 | .388 | .209 | 53.71 | - |

DRO Area:6764887 DRO Amount: 0.460217
TEH (Oil Range) Area:1.375272E+08 TEH (Oil Range) Amount: 9.356012

AMN 10/21/2021

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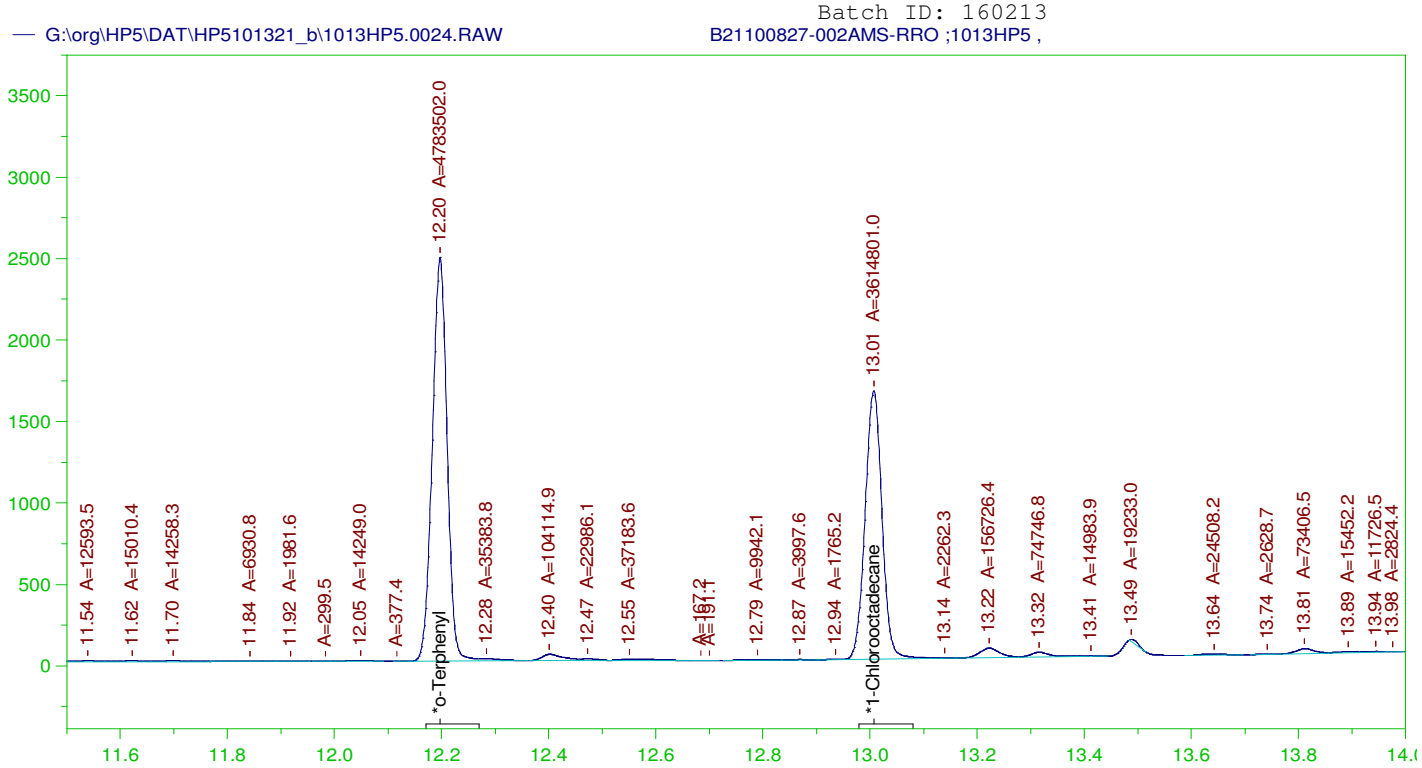
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0024.RAW
Date & Time Acquired: 10/14/2021 6:18:21 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.197 | .388 | .265 | 68.2 | - |
| *1-Chlorooctadecane | 13.007 | .388 | .2 | 51.54 | - |

DRO Area:2585120 DRO Amount: 0.1758664
TEH Area:4872221 TEH Amount: 0.3314584

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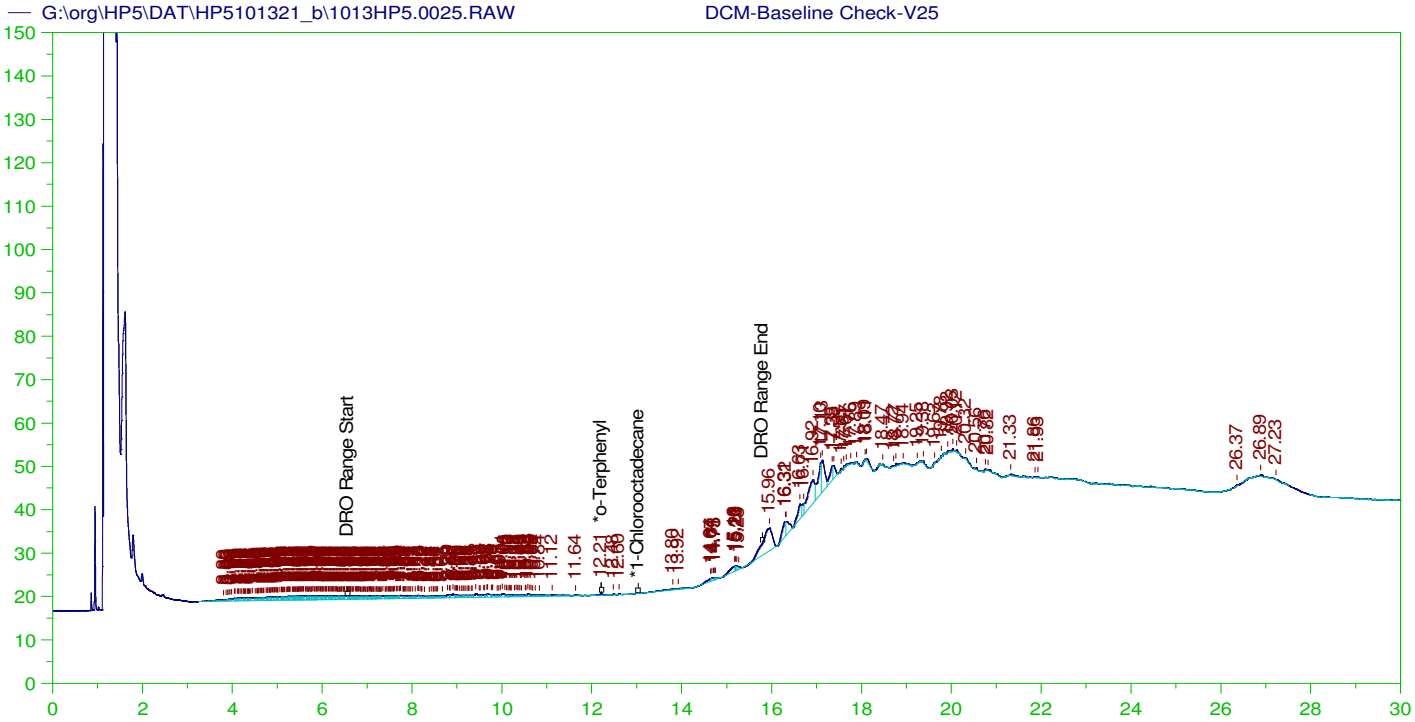


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V25
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0025.RAW
Date & Time Acquired: 10/14/2021 7:01:03 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.205 | 200. | .064 | .03 | - |
| *1-Chlorooctadecane | 29.99 | 200. | . | . | - |

DRO Area:193436 DRO Amount: 6.566651
TEH Area:697789.3 TEH Amount: 23.68814

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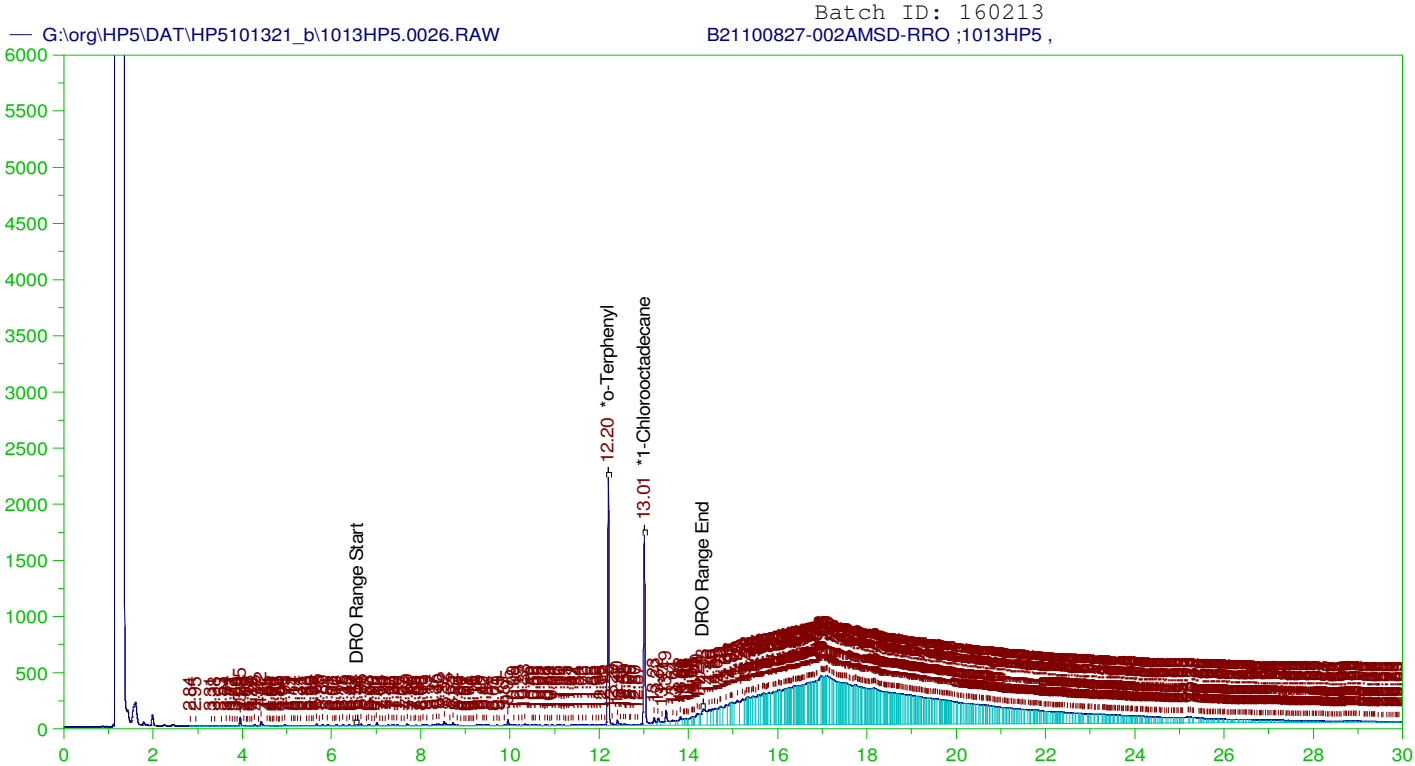
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMSD-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0026.RAW
Date & Time Acquired: 10/14/2021 7:43:34 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.199 | .388 | .239 | 61.52 | - |
| *1-Chlorooctadecane | 13.01 | .388 | .214 | 55.18 | - |

DRO Area:6592964 DRO Amount: 0.448521
TEH (Oil Range) Area:1.387715E+08 TEH (Oil Range) Amount: 9.44066

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G:\org\HP5\dat\HP5101321_b\Review\026_B21100827-002AMSD-RRO_D3_OIL-AJ-L%.xls

Batch ID: 160213

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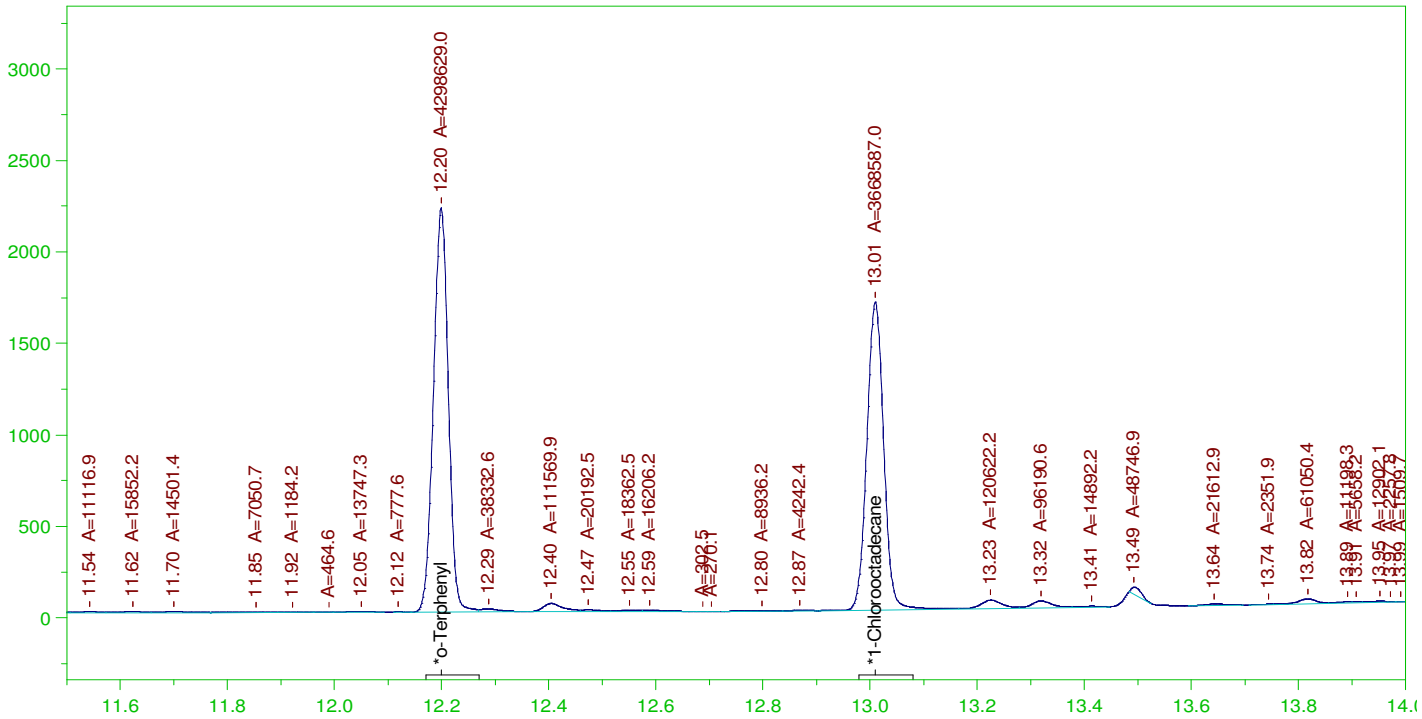



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

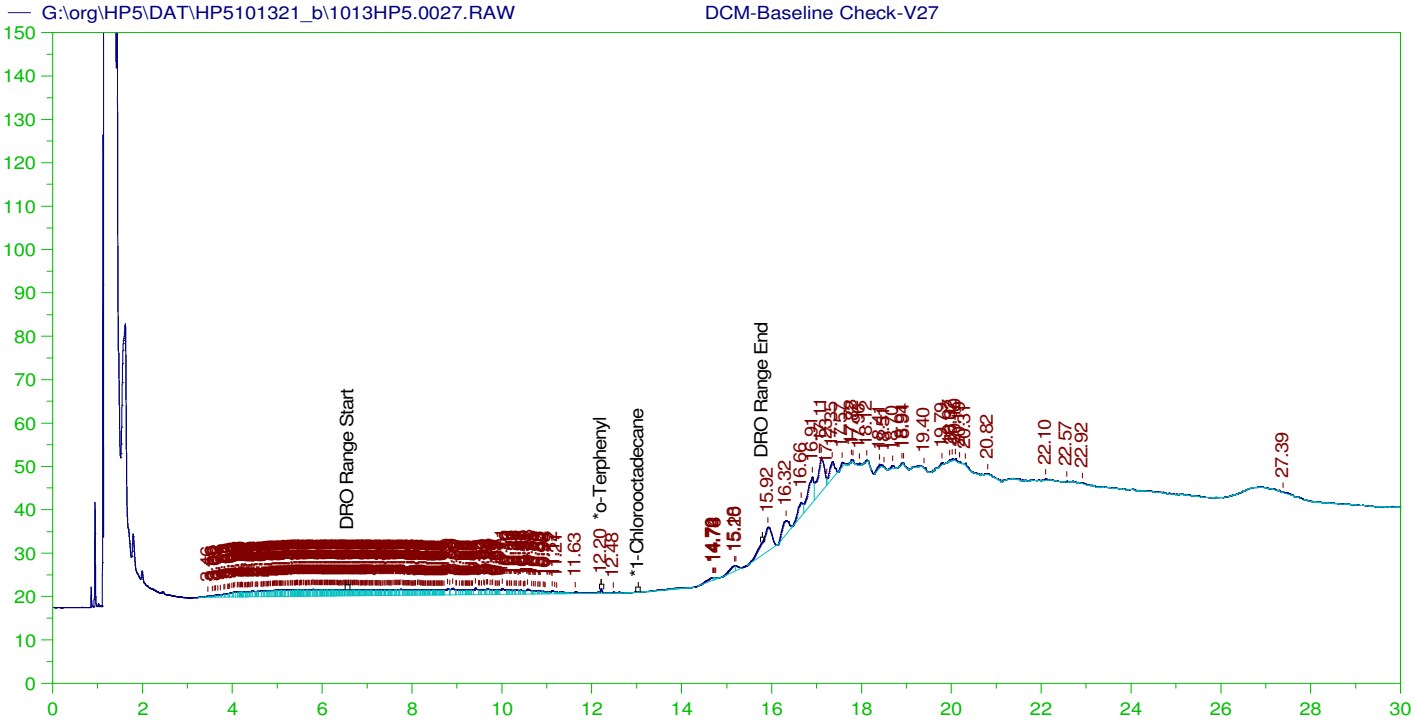
Sample Name: B21100827-002AMSD-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0026.RAW
Date & Time Acquired: 10/14/2021 7:43:34 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.199 | .388 | .238 | 61.28 | - |
| *1-Chlorooctadecane | 13.01 | .388 | .203 | 52.3 | - |

DRO Area:2503108 DRO Amount: 0.1702871
TEH Area:4696316 TEH Amount: 0.3194916

G:\org\HP5\dat\HP5101321_b\Review\026_B21100827-002AMSD-RRO_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V27
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0027.RAW
Date & Time Acquired: 10/14/2021 8:26:12 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

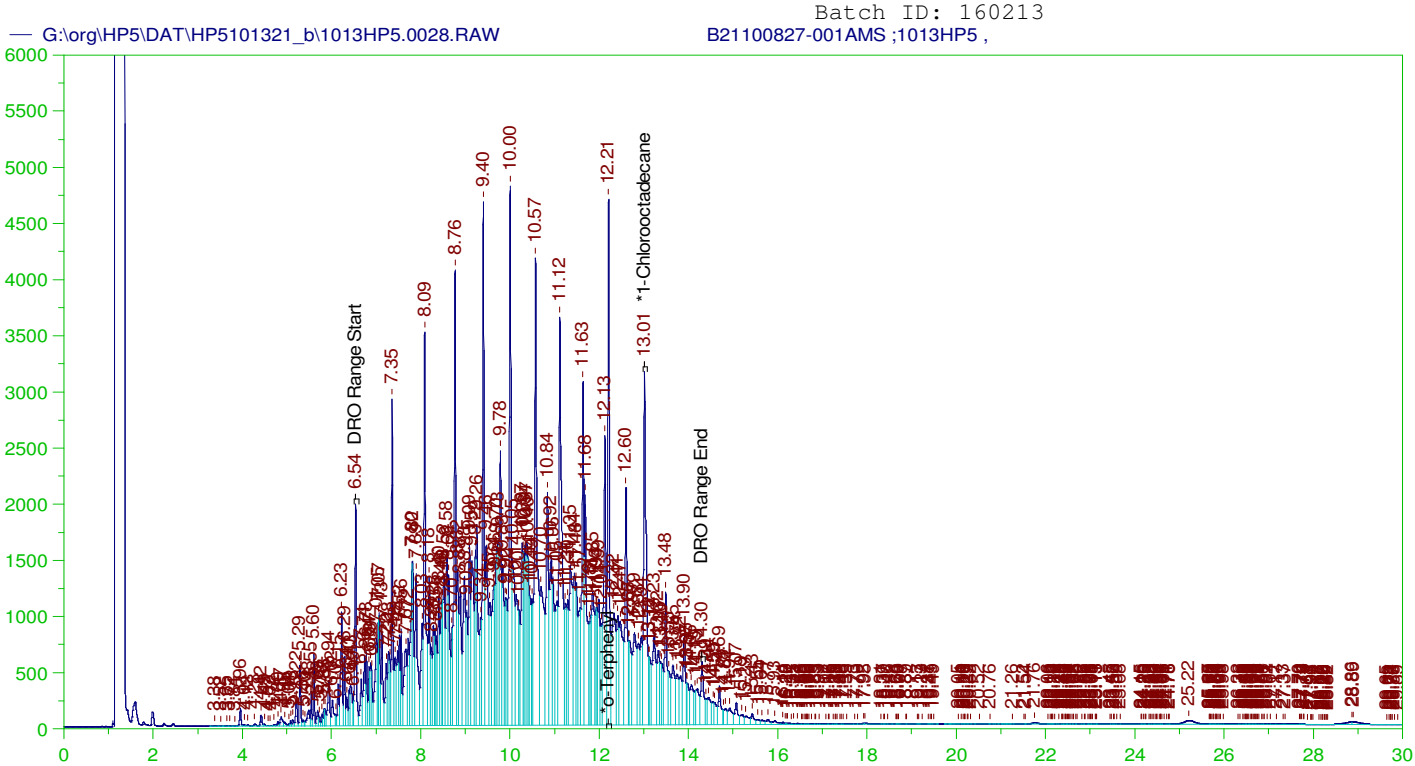
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | 200. | .082 | .04 | - |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | - |

DRO Area:350012.5 DRO Amount: 11.88202
TEH Area:964298.4 TEH Amount: 32.73543

G:\org\HP5\dat\HP5101321_b\Review\027_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMS ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0028.RAW
Date & Time Acquired: 10/14/2021 9:08:55 AM
Method File: G:\Org\HP5\Methods\D3_8015-101328-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .4 | .725 | 181.14 | - |
| *1-Chlorooctadecane | 13.014 | .4 | .712 | 178.02 | - |

DRO Area:4.560209E+08 DRO Amount: 30.96145
TEH Area:4.86465E+08 TEH Amount: 33.02845

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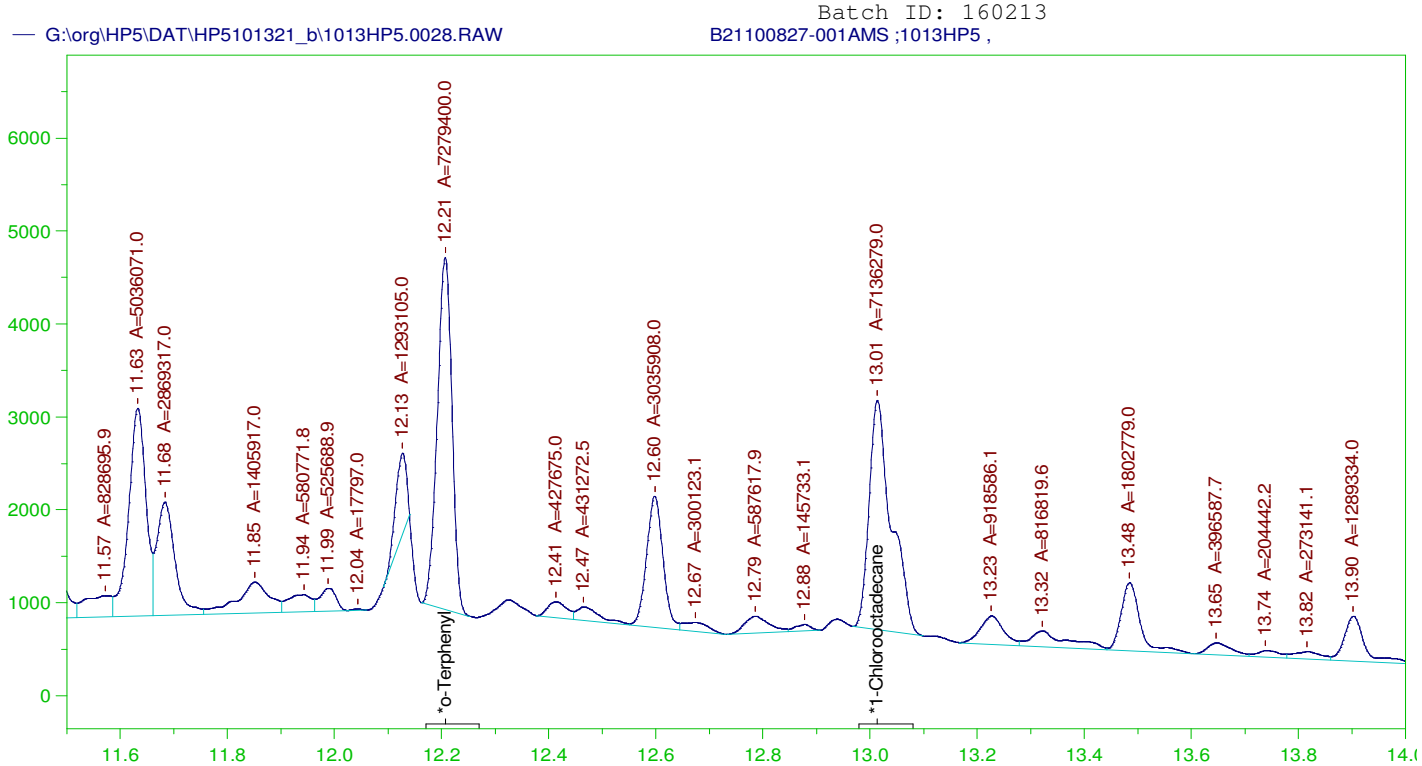
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

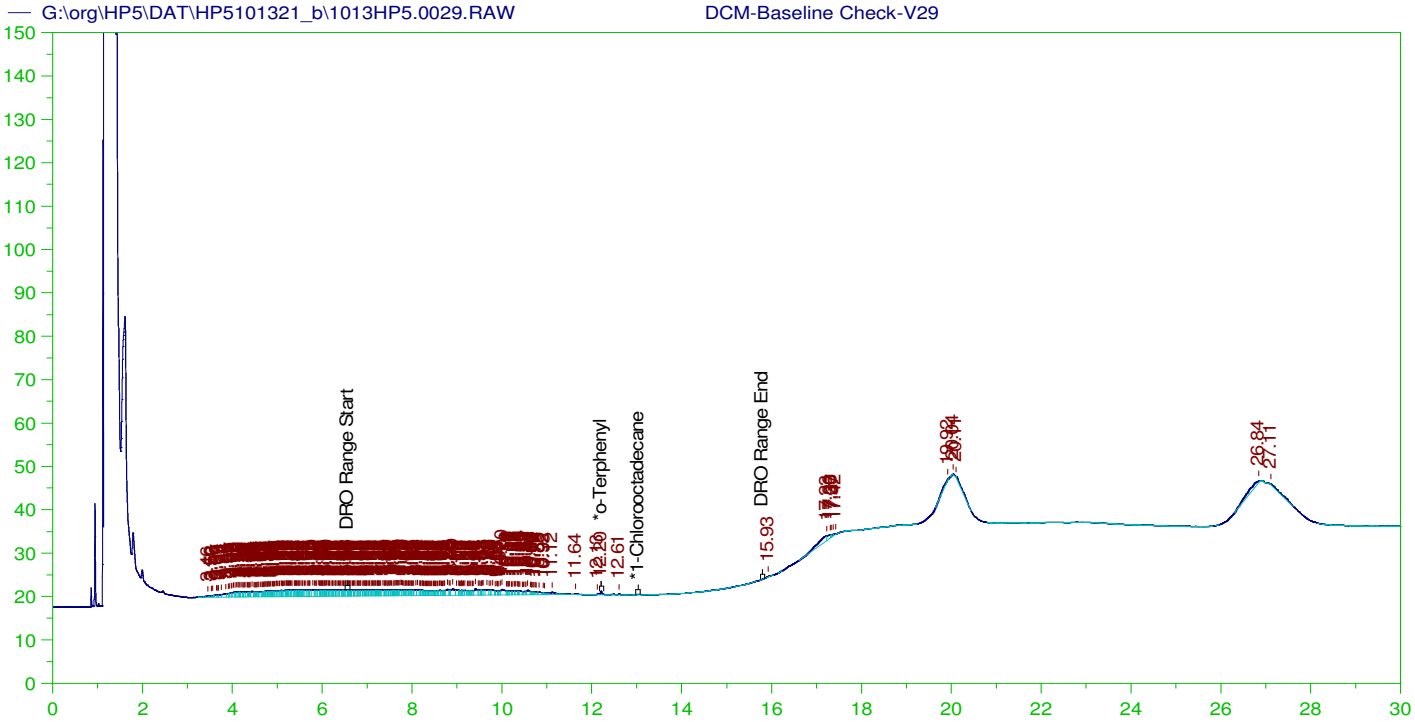
Sample Name: B21100827-001AMS ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0028.RAW
Date & Time Acquired: 10/14/2021 9:08:55 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .4 | .415 | 103.78 | - |
| *1-Chlorooctadecane | 13.014 | .4 | .407 | 101.74 | - |

DRO Area:2.293543E+08 DRO Amount: 15.57197
TEH Area:2.432916E+08 TEH Amount: 16.51824

G:\org\HP5\dat\HP5101321_b\Review\028_B21100827-001AMS_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V29
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0029.RAW
Date & Time Acquired: 10/14/2021 9:51:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

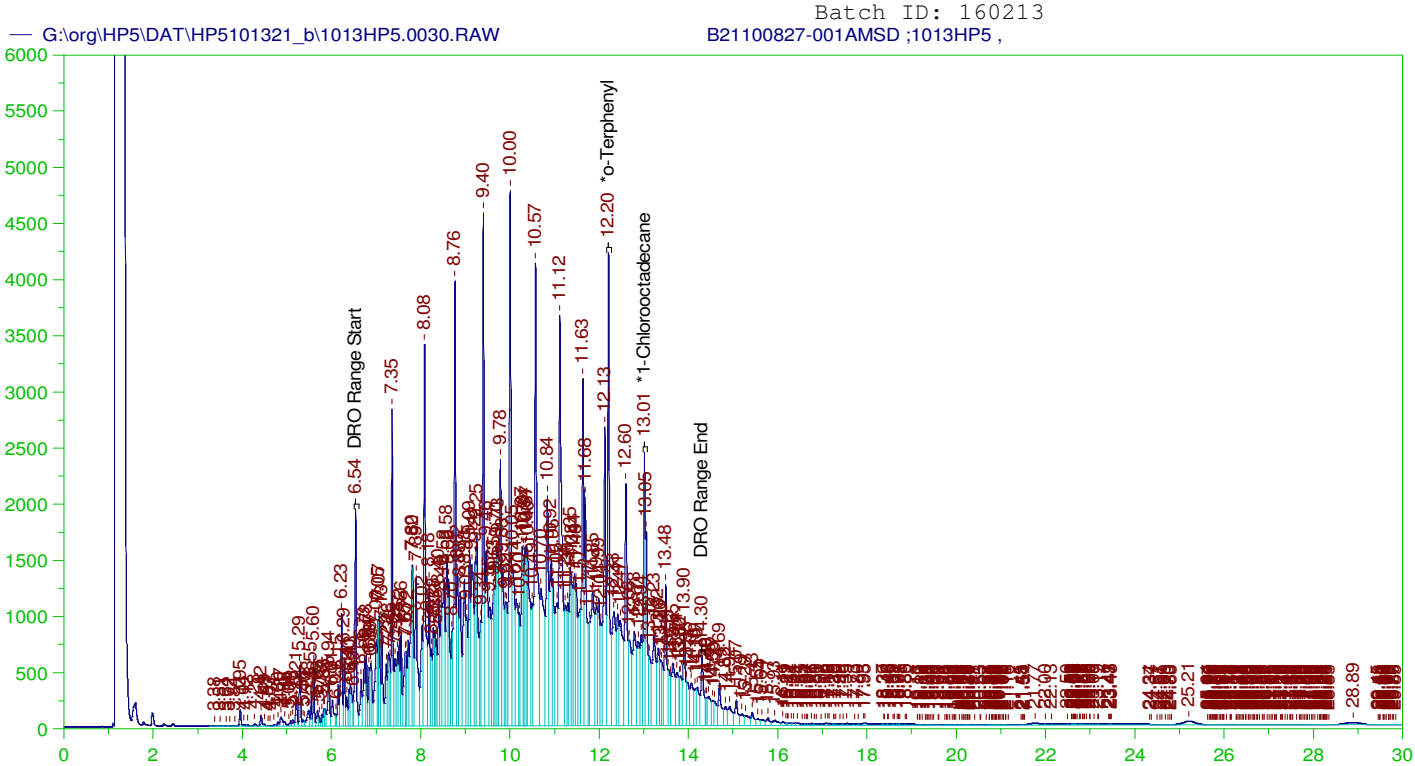
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.205 | 200. | .074 | .04 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:308739.3 DRO Amount: 10.4809
TEH Area:603657.7 TEH Amount: 20.49261

G:\org\HP5\dat\HP5101321_b\Review\029_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

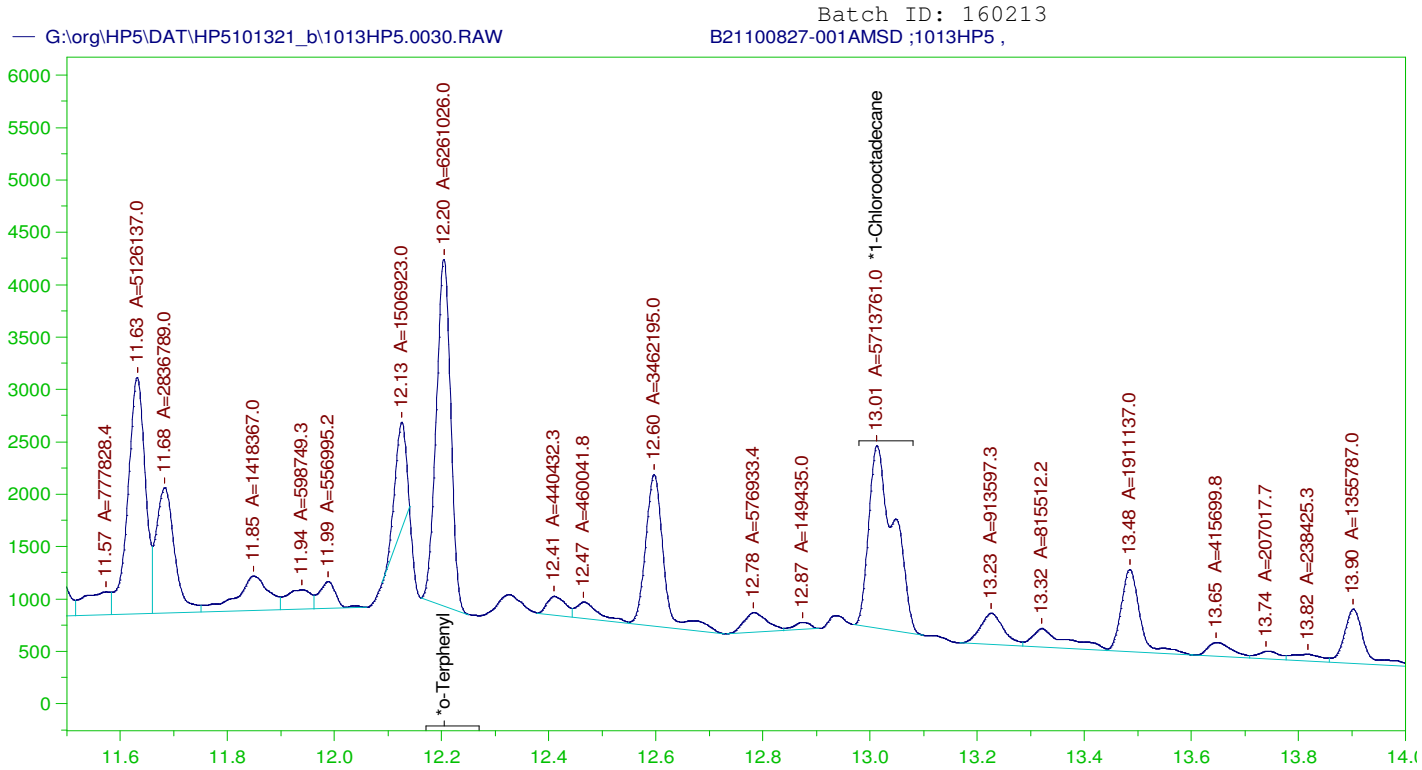
Sample Name: B21100827-001AMSD ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0030.RAW
Date & Time Acquired: 10/14/2021 10:34:35 AM
Method File: G:\Org\HP5\Methods\D3_8015-101330-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .4 | .684 | 171. | - |
| *1-Chlorooctadecane | 13.013 | .4 | .38 | 94.96 | - |

DRO Area:4.580036E+08 DRO Amount: 31.09606
TEH Area:4.96338E+08 TEH Amount: 33.69878

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

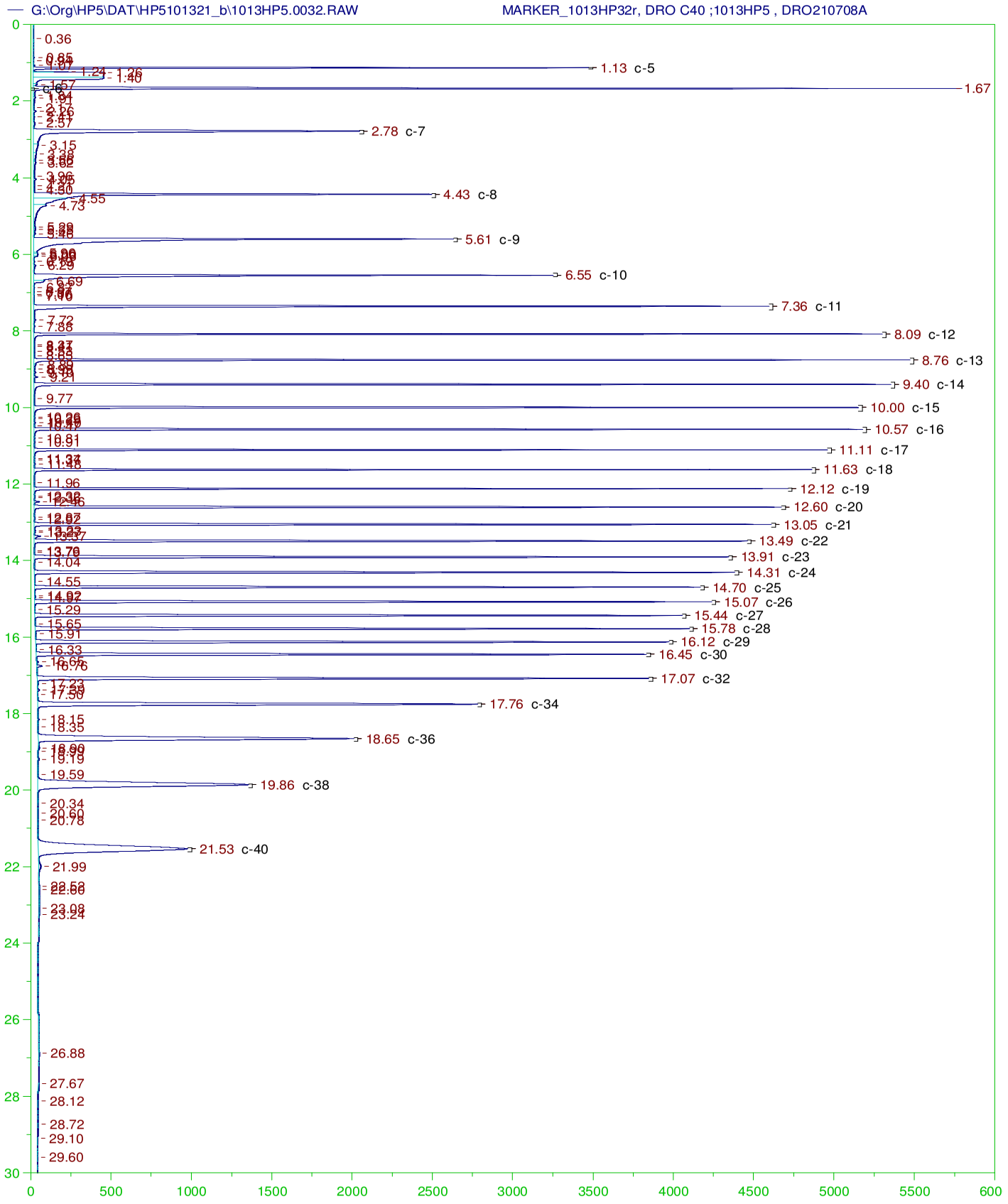
Sample Name: B21100827-001AMSD ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0030.RAW
Date & Time Acquired: 10/14/2021 10:34:35 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .4 | .357 | 89.26 | - |
| *1-Chlorooctadecane | 13.013 | .4 | .326 | 81.46 | - |

DRO Area:2.231896E+08 DRO Amount: 15.15341
TEH Area:2.37219E+08 TEH Amount: 16.10594

G:\org\HP5\dat\HP5101321_b\Review\030_B21100827-001AMSD_DS_8015-area-HS-L#.xls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MARKER_1013HP32r, DRO C40 ;1013HP5 , DRO210708A
1.13 c-5
1.67
2.78 c-7
4.43 c-8
5.61 c-9
6.55 c-10
7.36 c-11
8.09 c-12
8.76 c-13
9.40 c-14
10.00 c-15
10.57 c-16
11.11 c-17
11.63 c-18
12.12 c-19
12.60 c-20
13.05 c-21
13.49 c-22
13.91 c-23
14.31 c-24
14.70 c-25
15.07 c-26
15.44 c-27
15.78 c-28
16.12 c-29
16.45 c-30
17.07 c-32
17.76 c-34
18.65 c-36
19.86 c-38
21.53 c-40
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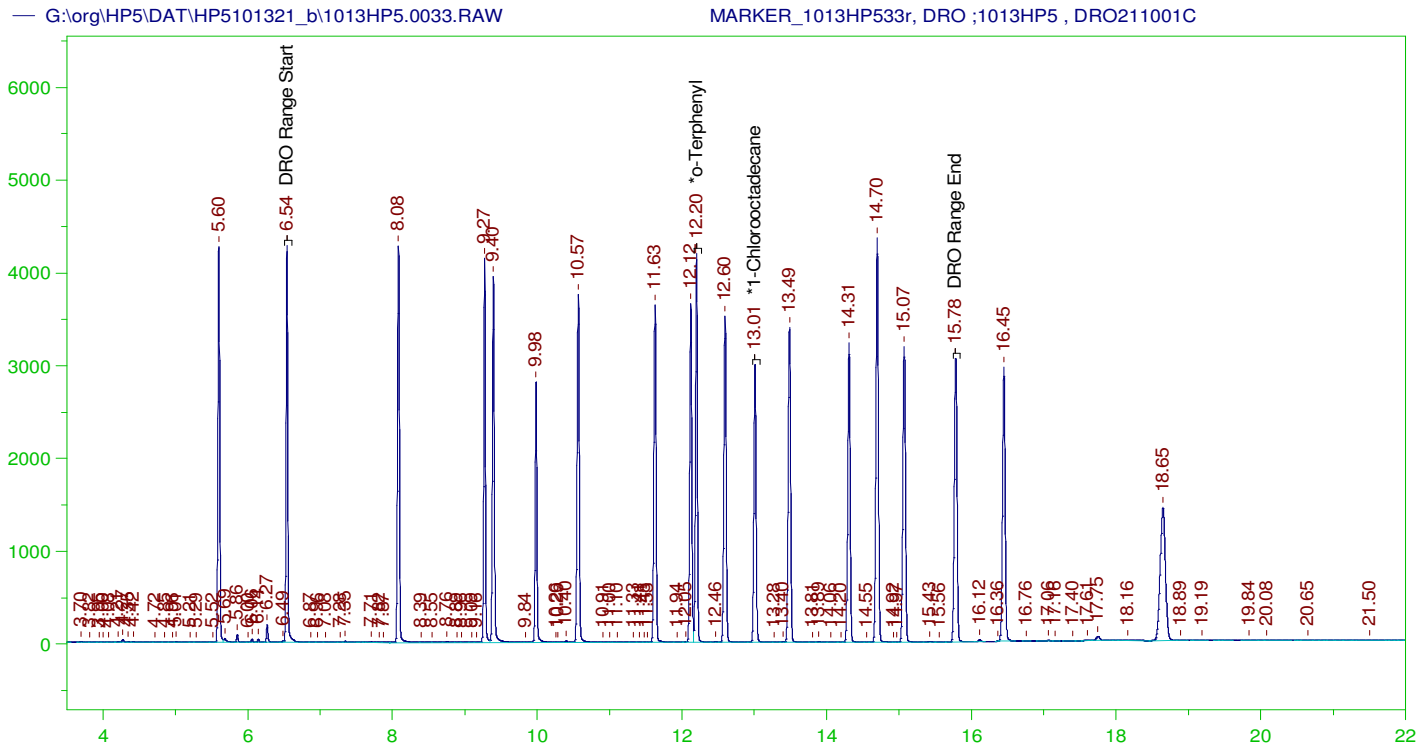



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

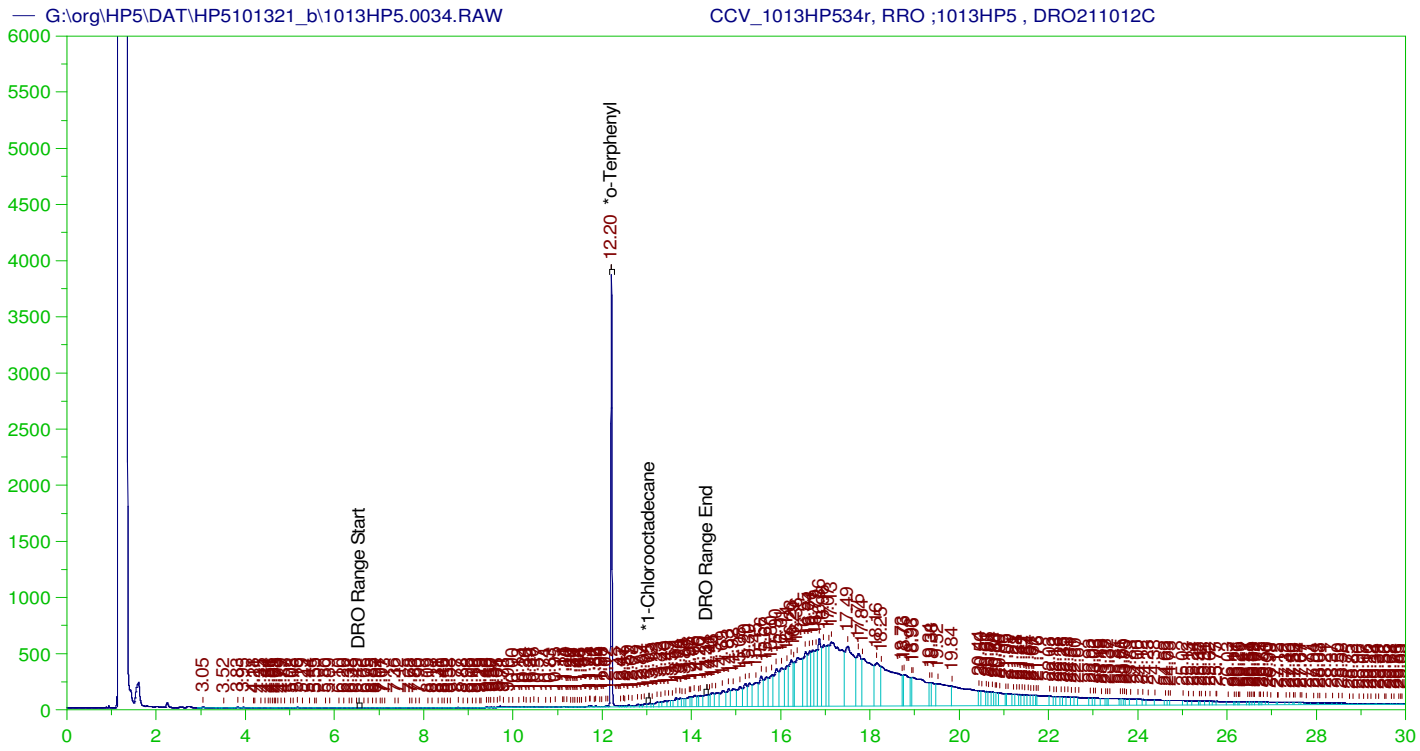
Sample Name: MARKER_1013HP533r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0033.RAW
Date & Time Acquired: 10/14/2021 12:41:54 PM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | .2 | .228 | 114.24 | - |
| *1-Chlorooctadecane | 13.009 | .2 | .185 | 92.48 | - |

DRO Area:1.04407E+08 DRO Amount: 3.544346
TEH Area:1.27631E+08 TEH Amount: 4.332742

G:\org\HP5\dat\HP5101321_b\Review\033_MARKER_1013HP533r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP534r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW
Date & Time Acquired: 10/14/2021 1:24:13 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 214.364 | 107.18 | - |
| *1-Chlorooctadecane | 13.049 | 200. | 4.373 | 2.19 | - |

DRO Area:6563576 DRO Amount: 229.9587
TEH (Oil Range) Area:1.403174E+08 TEH (Oil Range) Amount: 4916.102

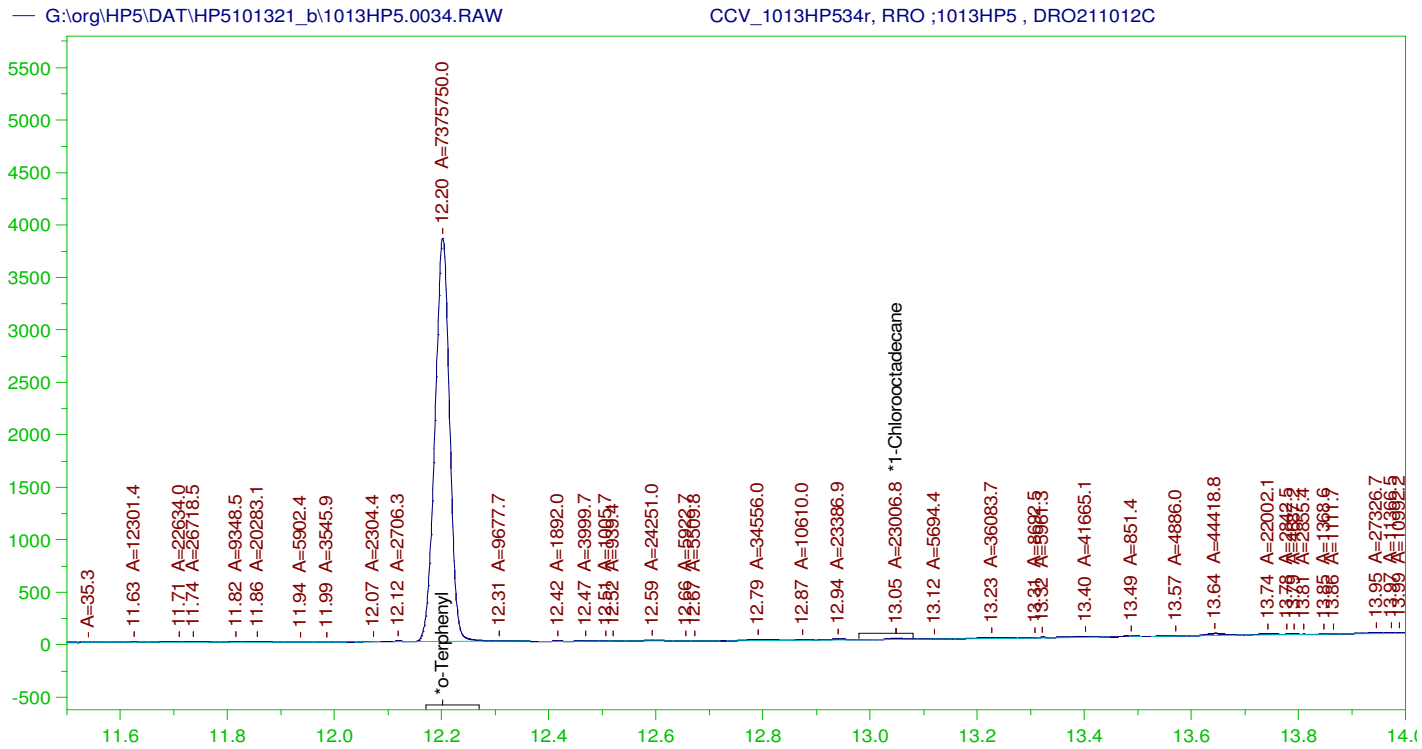
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4916.1 | 98.32 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 214.364 | 107.18 | 85-115 |
| *1-Chlorooctadecane | 13.049 | 200. | 4.373 | 2.19 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\034_CCV_1013HP534r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP534r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW
Date & Time Acquired: 10/14/2021 1:24:13 PM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 210.308 | 105.15 | - |
| *1-Chlorooctadecane | 13.049 | 200. | .656 | .33 | - |

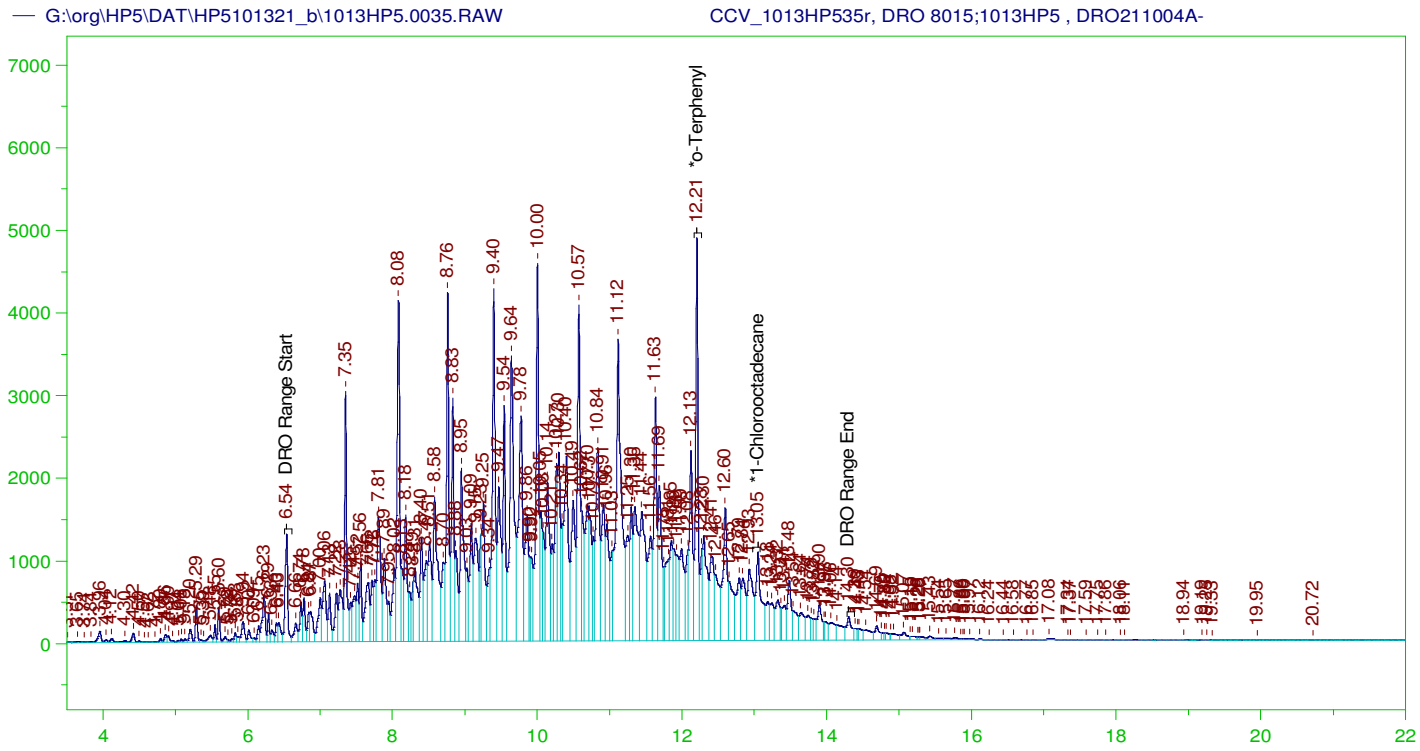
DRO Area:825565.2 DRO Amount: 28.92416
TEH Area:2141455 TEH Amount: 75.02711

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 75.03 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 210.308 | 105.15 | 85-115 |
| *1-Chlorooctadecane | 13.049 | 200. | .656 | .33 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\034_CCV_1013HP534r_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW
Date & Time Acquired: 10/14/2021 2:06:51 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 342.987 | 171.49 | - |
| *1-Chlorooctadecane | 13.048 | 200. | 156.924 | 78.46 | - |

DRO Area:4.518377E+08 DRO Amount: 15338.72
TEH Area:4.681404E+08 TEH Amount: 15892.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15892.15 | 105.95 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 342.987 | 171.49 | 85-115 |
| *1-Chlorooctadecane | 13.048 | 200. | 156.924 | 78.46 | 85-115 |

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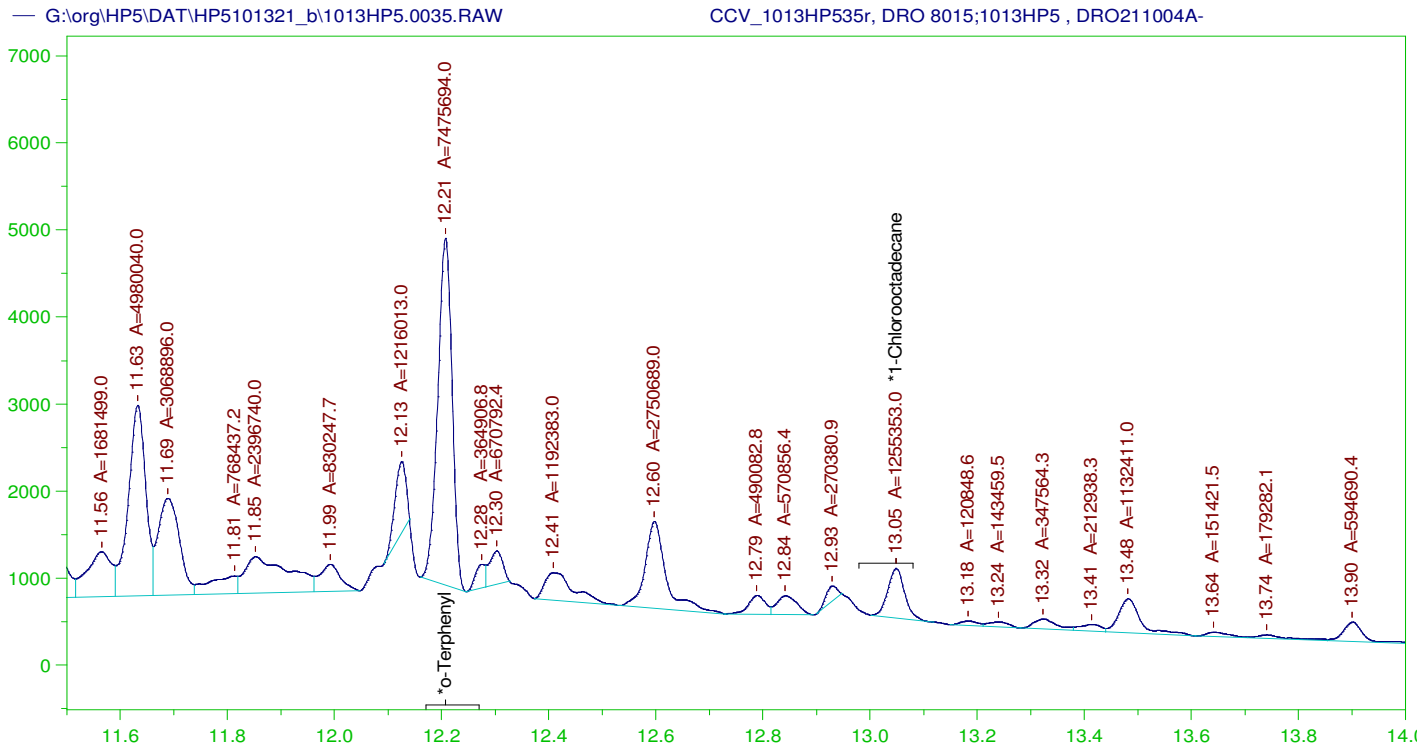


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW
Date & Time Acquired: 10/14/2021 2:06:51 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 213.157 | 106.58 | - |
| *1-Chlorooctadecane | 13.048 | 200. | 35.794 | 17.9 | - |

DRO Area:2.532008E+08 DRO Amount: 8595.512
TEH Area:2.628864E+08 TEH Amount: 8924.311

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8924.31 | 59.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 213.157 | 106.58 | 85-115 |
| *1-Chlorooctadecane | 13.048 | 200. | 35.794 | 17.9 | 85-115 |

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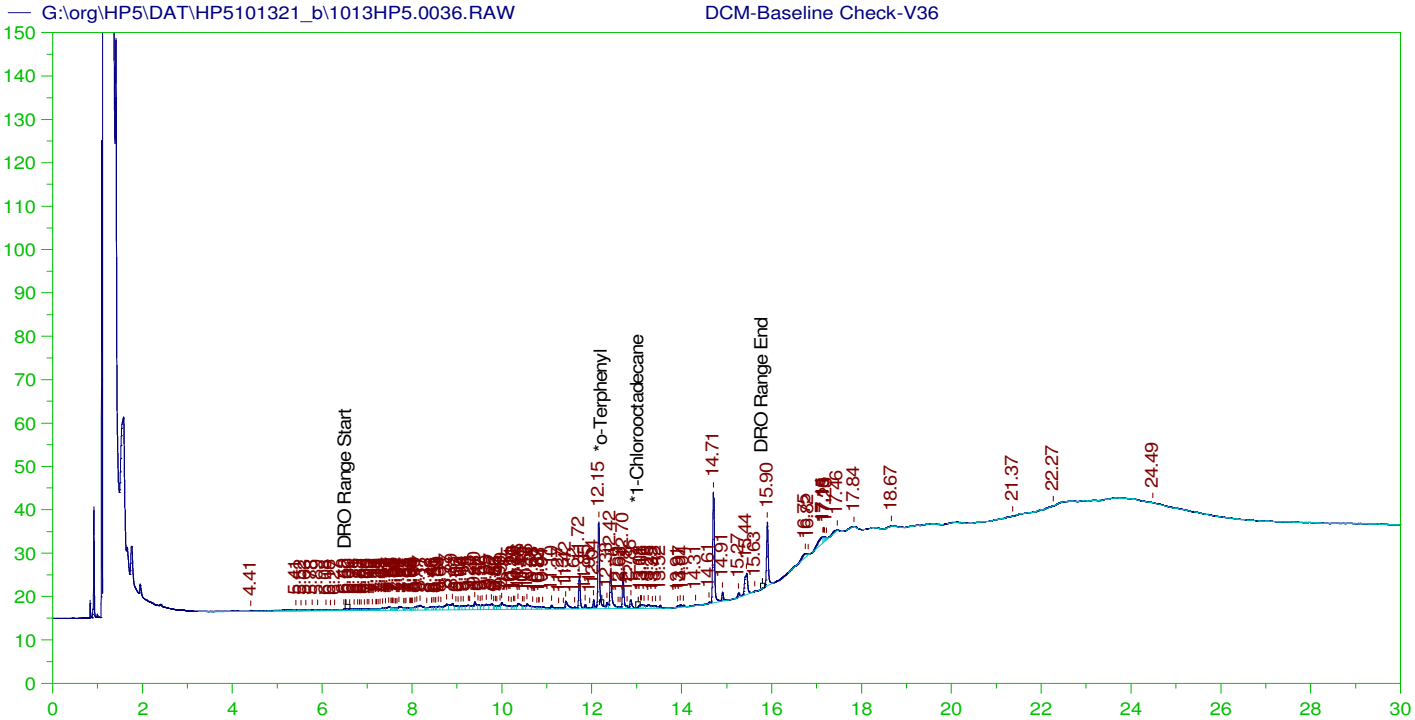



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

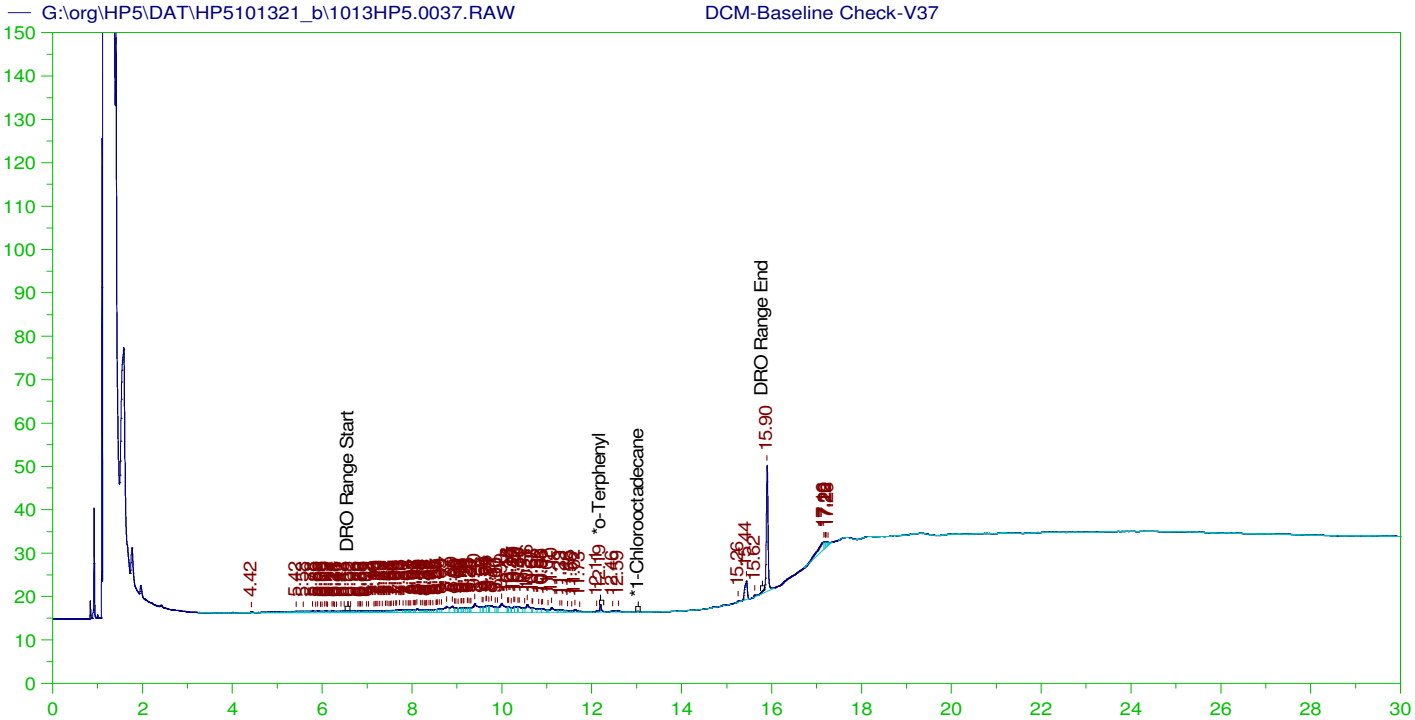
Sample Name: DCM-Baseline Check-V36
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0036.RAW
Date & Time Acquired: 10/14/2021 3:07:06 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.982 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:470719.3 DRO Amount: 15.9797
TEH Area:587746.1 TEH Amount: 19.95246

G:\org\HP5\dat\HP5101321_b\Review\036_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

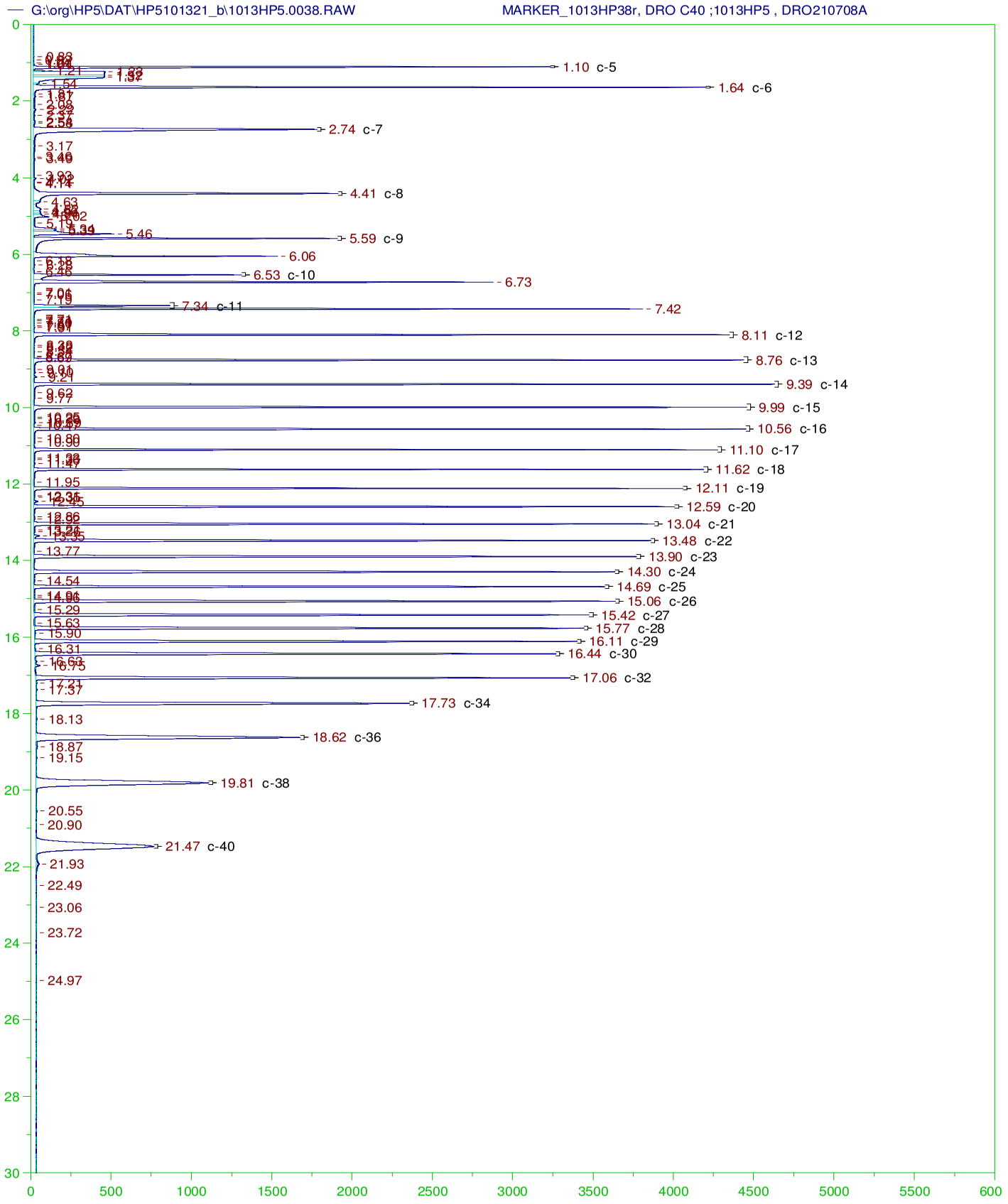
Sample Name: DCM-Baseline Check-V37
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0037.RAW
Date & Time Acquired: 10/14/2021 3:49:24 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.189 | 200. | .142 | .07 | - |
| *1-Chlorooctadecane | 29.986 | 200. | . | . | - |

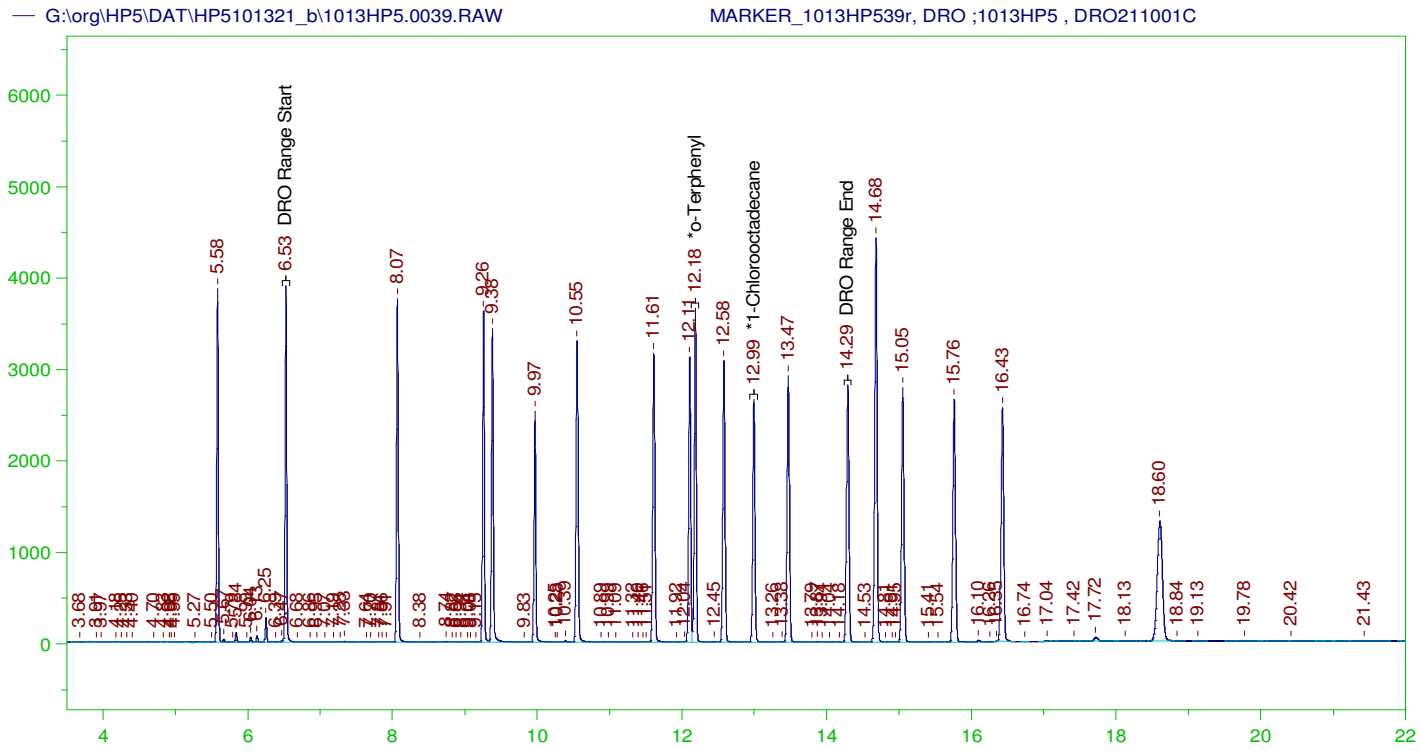
DRO Area:275705.9 DRO Amount: 9.359501
TEH Area:430383.9 TEH Amount: 14.61042

G:\org\HP5\dat\HP5101321_b\Review\037_DCM-Baseline Chec_DR_8015-HS-LEXP.xls






G:\org\HP5\dat\HP5101321_b\Review\038_MARKER_1013HP38r_CSC211013.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

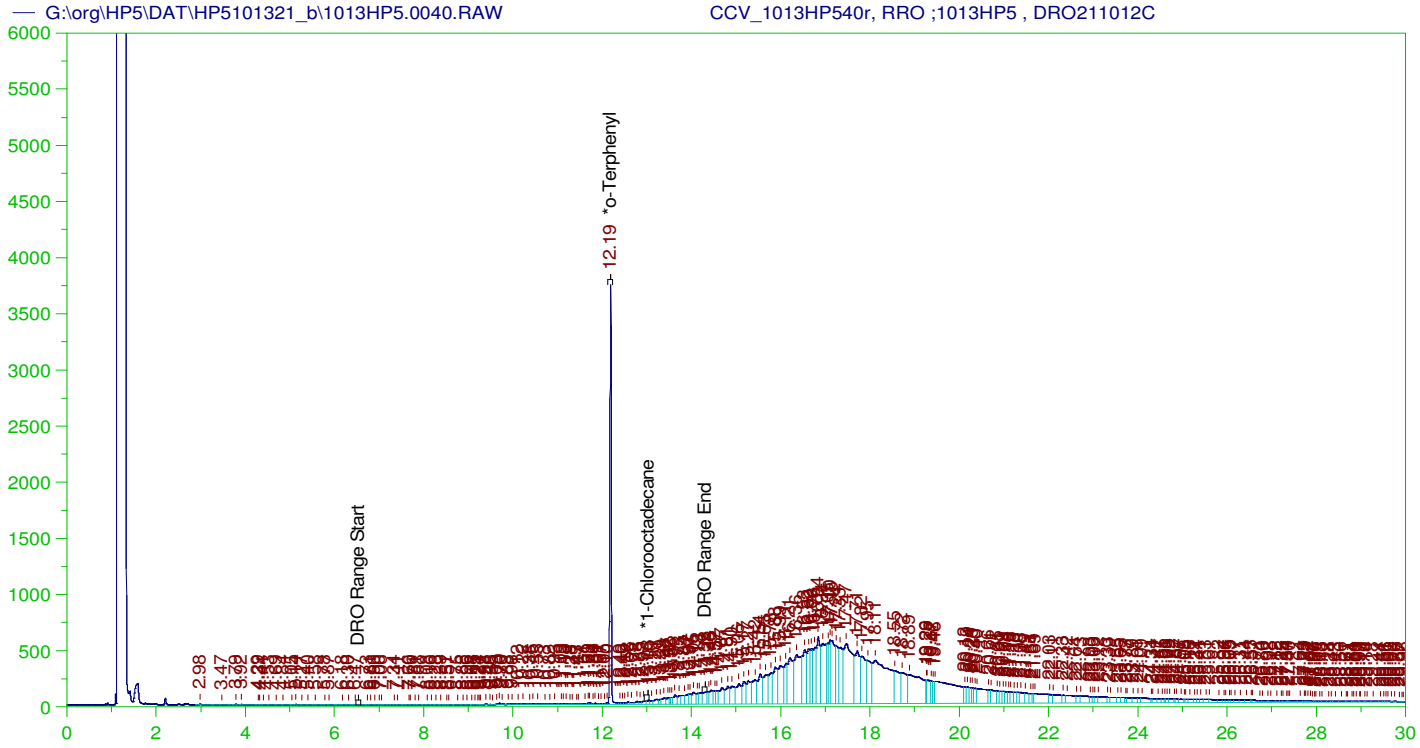
Sample Name: MARKER_1013HP539r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0039.RAW
Date & Time Acquired: 10/14/2021 5:14:51 PM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | .2 | .202 | 101.1 | - |
| *1-Chlorooctadecane | 12.993 | .2 | .164 | 81.84 | - |

DRO Area:6.892374E+07 DRO Amount: 2.339782
TEH Area:1.134687E+08 TEH Amount: 3.851967

G:\org\HP5\dat\HP5101321_b\Review\039_MARKER_1013HP539r_DC_8015-24-HSa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW
Date & Time Acquired: 10/14/2021 5:58:15 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 210.849 | 105.42 | - |
| *1-Chlorooctadecane | 13.03 | 200. | 4.309 | 2.15 | - |

DRO Area:6458886 DRO Amount: 226.2908
TEH (Oil Range) Area:1.345355E+08 TEH (Oil Range) Amount: 4713.531

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4713.53 | 94.27 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 210.849 | 105.42 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | 4.309 | 2.15 | 85-115 |

AMN 10/21/2021

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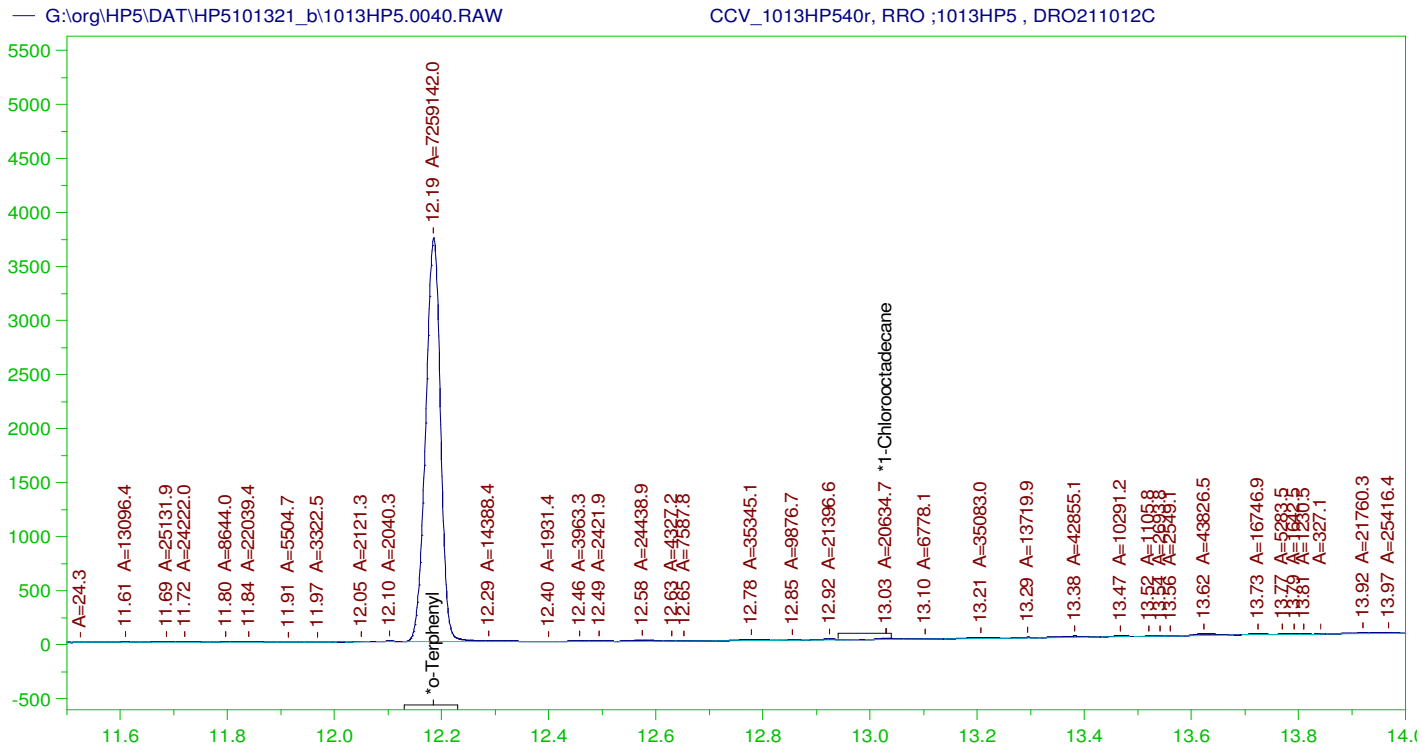



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW
Date & Time Acquired: 10/14/2021 5:58:15 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

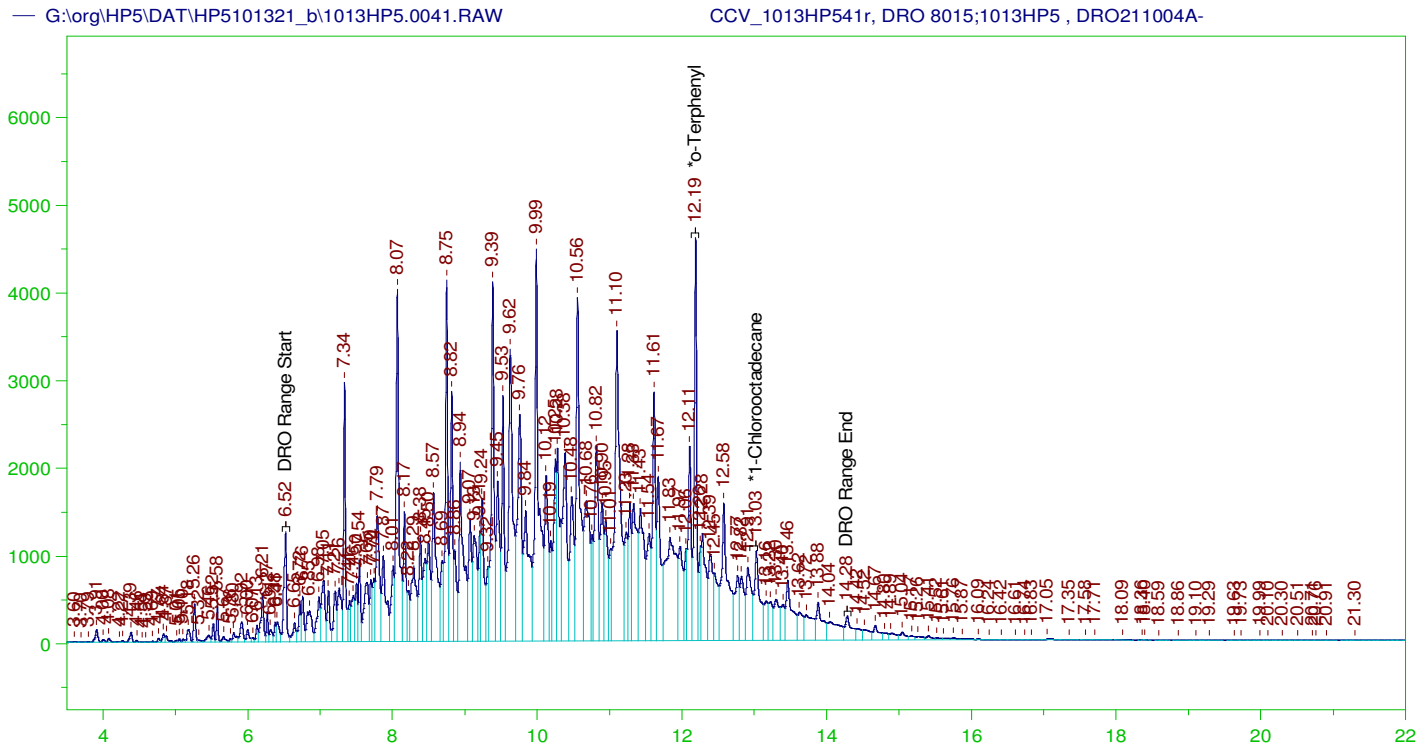
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 206.983 | 103.49 | - |
| *1-Chlorooctadecane | 13.03 | 200. | .588 | .29 | - |

DRO Area:848873.9 DRO Amount: 29.74079
TEH Area:2112552 TEH Amount: 74.01448

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 74.01 | 1.48 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 206.983 | 103.49 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | .588 | .29 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW
Date & Time Acquired: 10/14/2021 6:41:13 PM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 328.737 | 164.37 | - |
| *1-Chlorooctadecane | 13.029 | 200. | 150.84 | 75.42 | - |

DRO Area:4.350192E+08 DRO Amount: 14767.77
TEH Area:4.504288E+08 TEH Amount: 15290.89

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15290.89 | 101.94 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 328.737 | 164.37 | 85-115 |
| *1-Chlorooctadecane | 13.029 | 200. | 150.84 | 75.42 | 85-115 |

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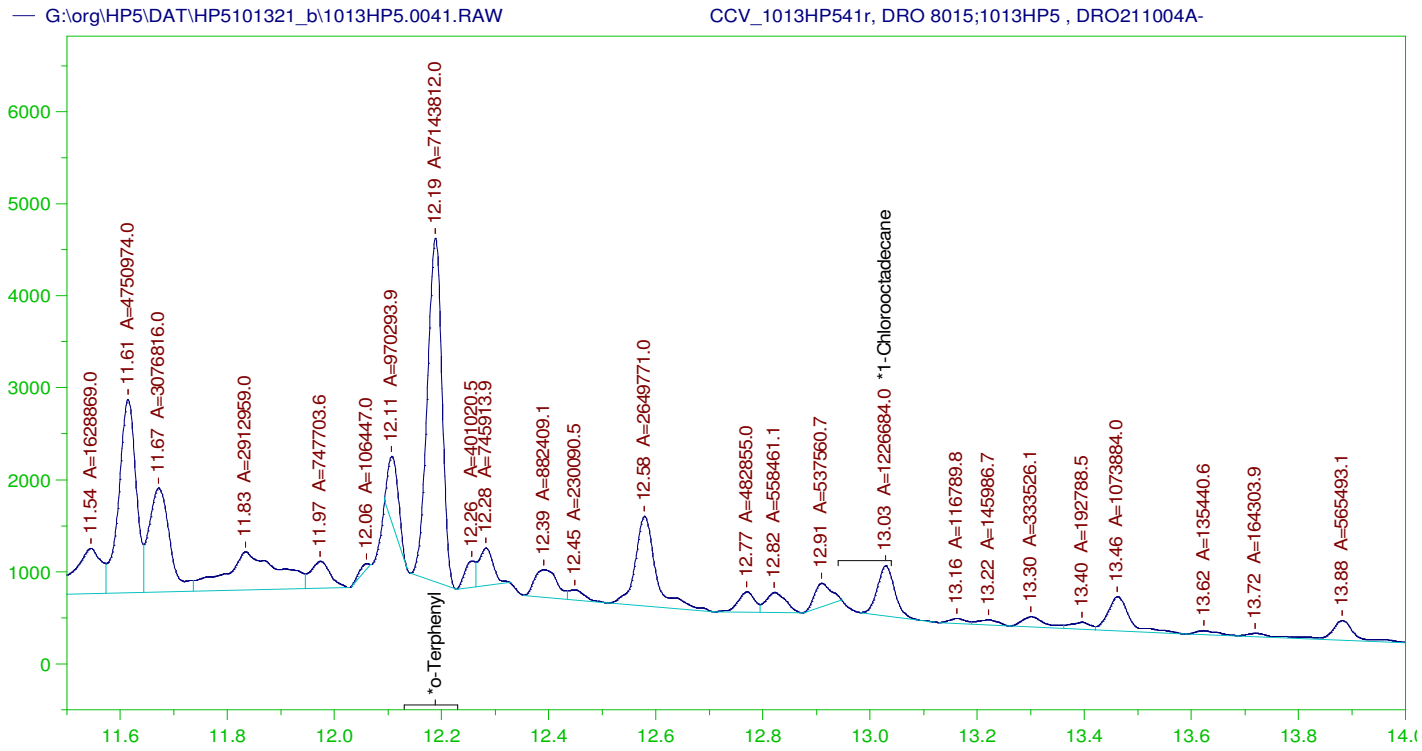


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW
Date & Time Acquired: 10/14/2021 6:41:13 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 203.694 | 101.85 | - |
| *1-Chlorooctadecane | 13.029 | 200. | 34.977 | 17.49 | - |

DRO Area:2.423629E+08 DRO Amount: 8227.593
TEH Area:2.523258E+08 TEH Amount: 8565.805

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8565.81 | 57.11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 203.694 | 101.85 | 85-115 |
| *1-Chlorooctadecane | 13.029 | 200. | 34.977 | 17.49 | 85-115 |

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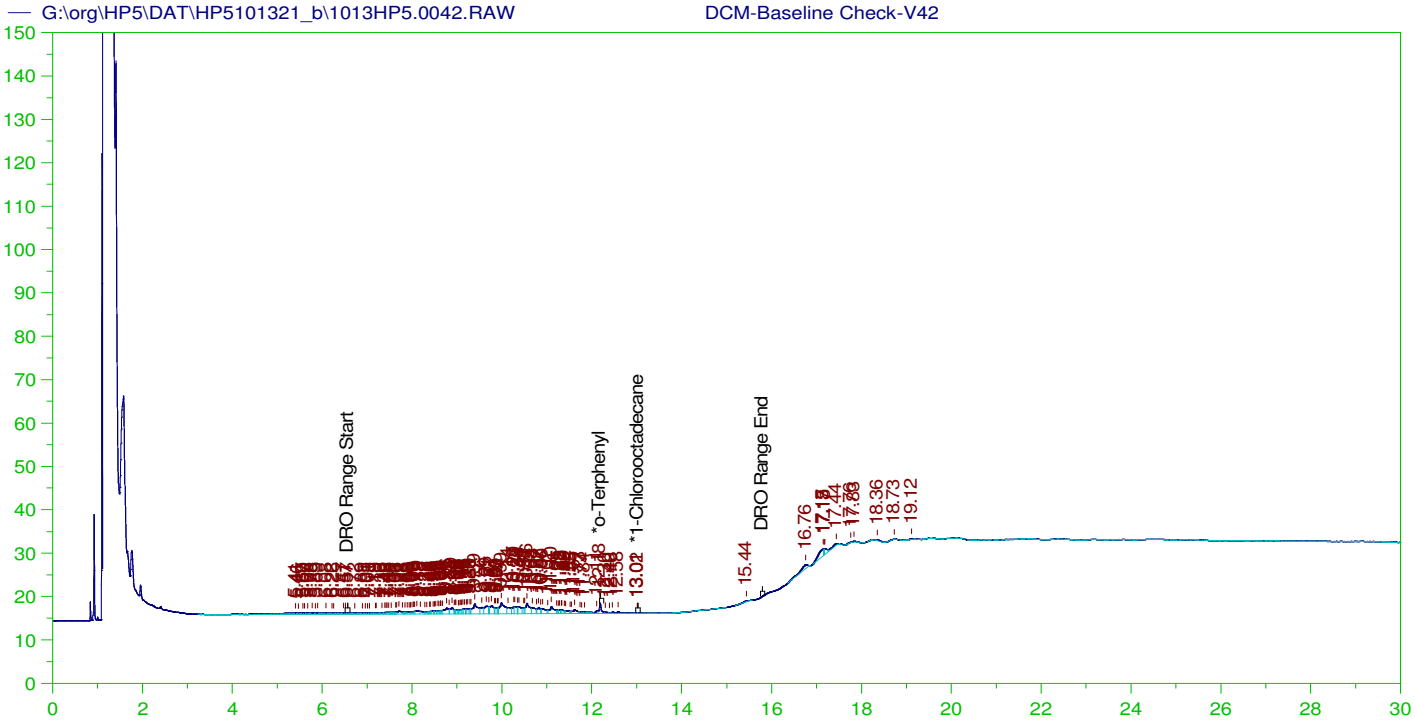



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V42
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0042.RAW
Date & Time Acquired: 10/14/2021 7:24:24 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

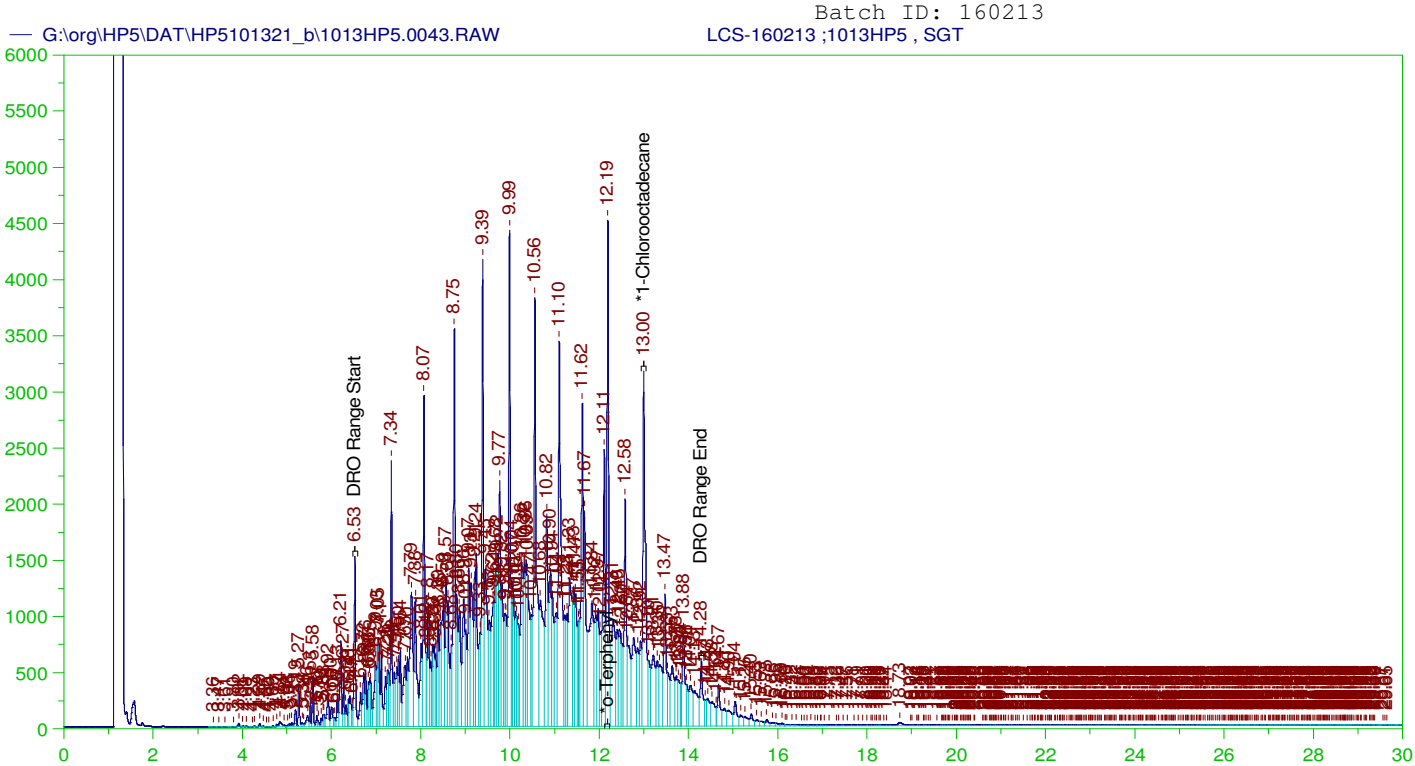
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.182 | 200. | .24 | .12 | - |
| *1-Chlorooctadecane | 13.024 | 200. | .016 | .01 | - |

DRO Area:298035.3 DRO Amount: 10.11753
TEH Area:377329.5 TEH Amount: 12.80936

G:\org\HP5\dat\HP5101321_b\Review\042_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0043.RAW
Date & Time Acquired: 10/14/2021 8:07:16 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.19 | .2 | .341 | 170.27 | - |
| *1-Chlorooctadecane | 12.997 | .2 | .354 | 177.16 | - |

DRO Area:4.05568E+08 DRO Amount: 13.76798
TEH Area:4.332774E+08 TEH Amount: 14.70864

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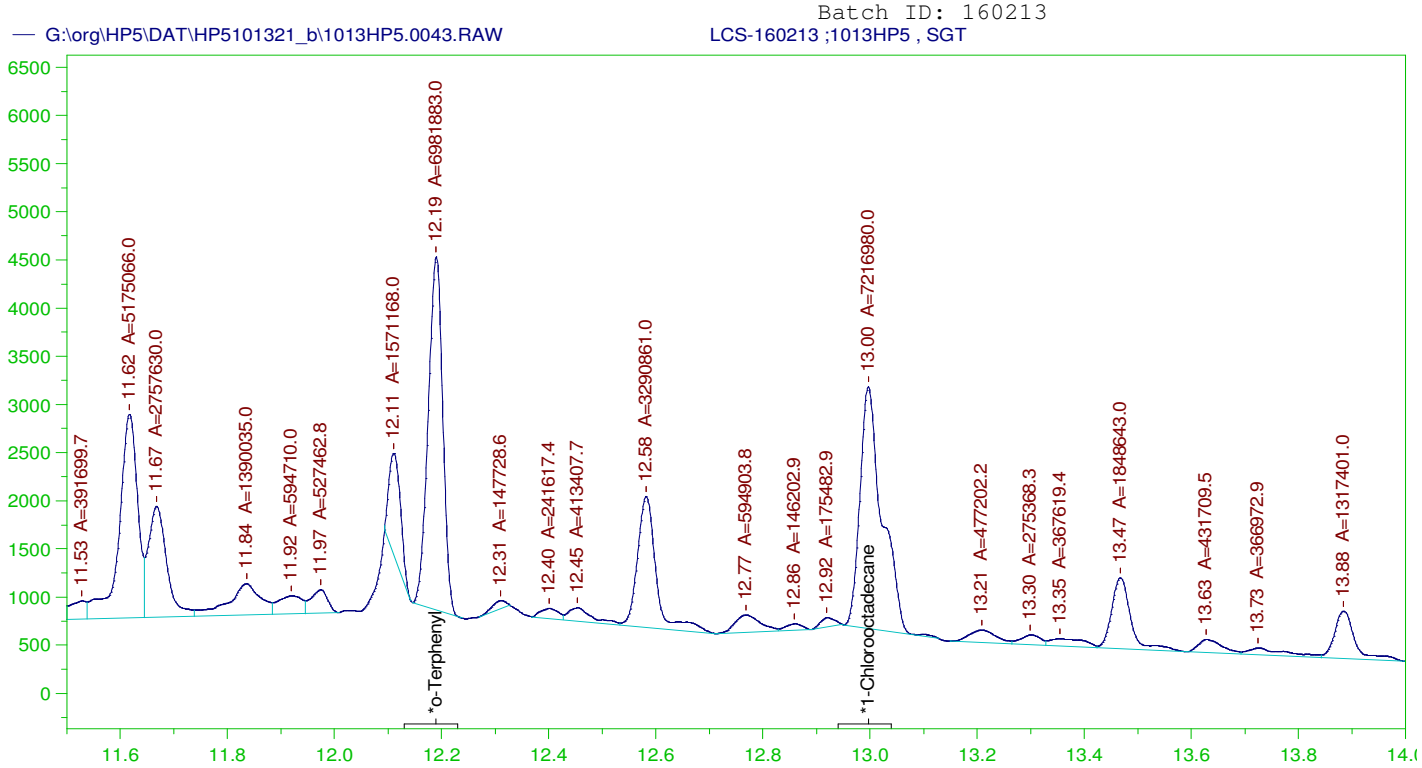
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0043.RAW
Date & Time Acquired: 10/14/2021 8:07:16 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.19 | .2 | .199 | 99.54 | - |
| *1-Chlorooctadecane | 12.997 | .2 | .206 | 102.89 | - |

DRO Area:1.95124E+08 DRO Amount: 6.623953
TEH Area:2.066326E+08 TEH Amount: 7.014641

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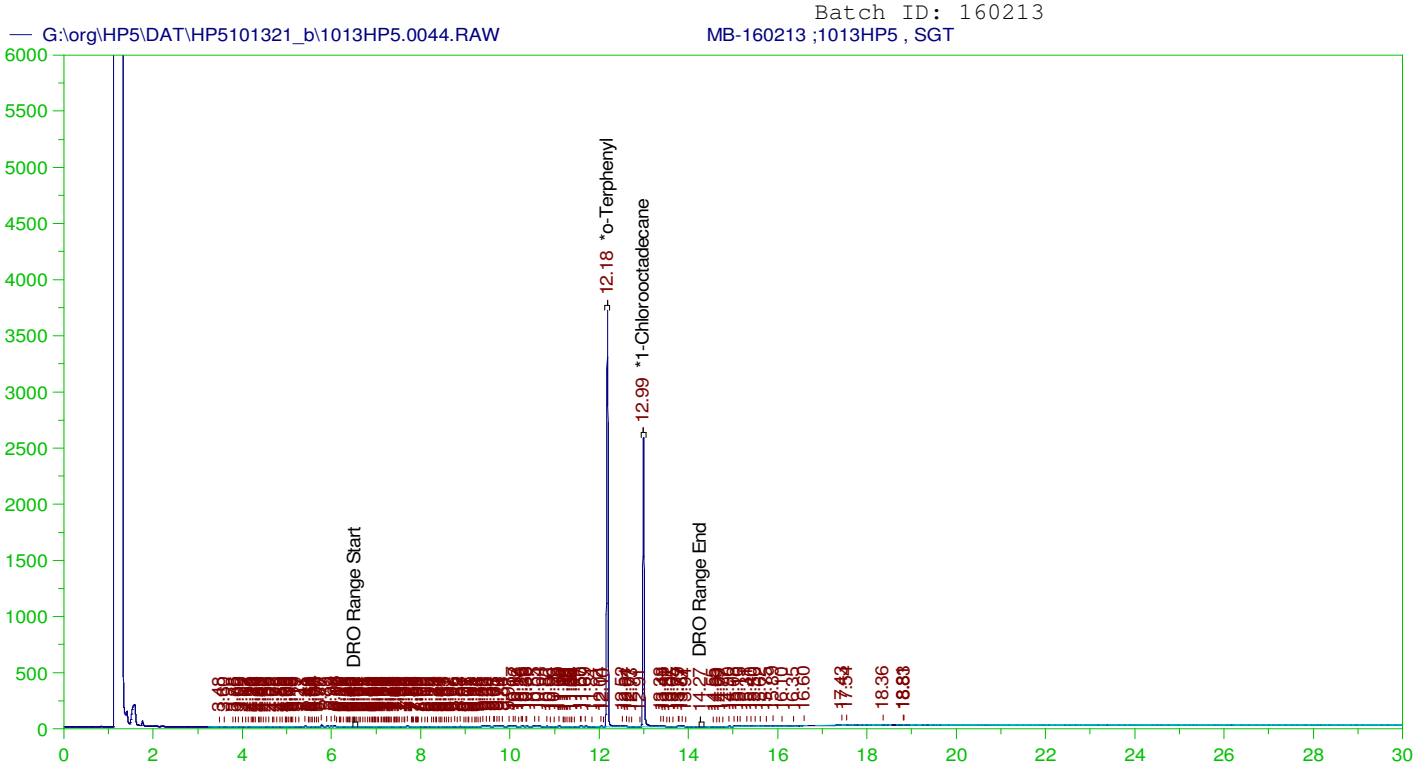
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0044.RAW
Date & Time Acquired: 10/14/2021 8:50:10 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .206 | 102.99 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .162 | 80.98 | - |

DRO Area:484911.8 DRO Amount: 0.0164615
TEH Area:741644.8 TEH Amount: 2.517691E-02

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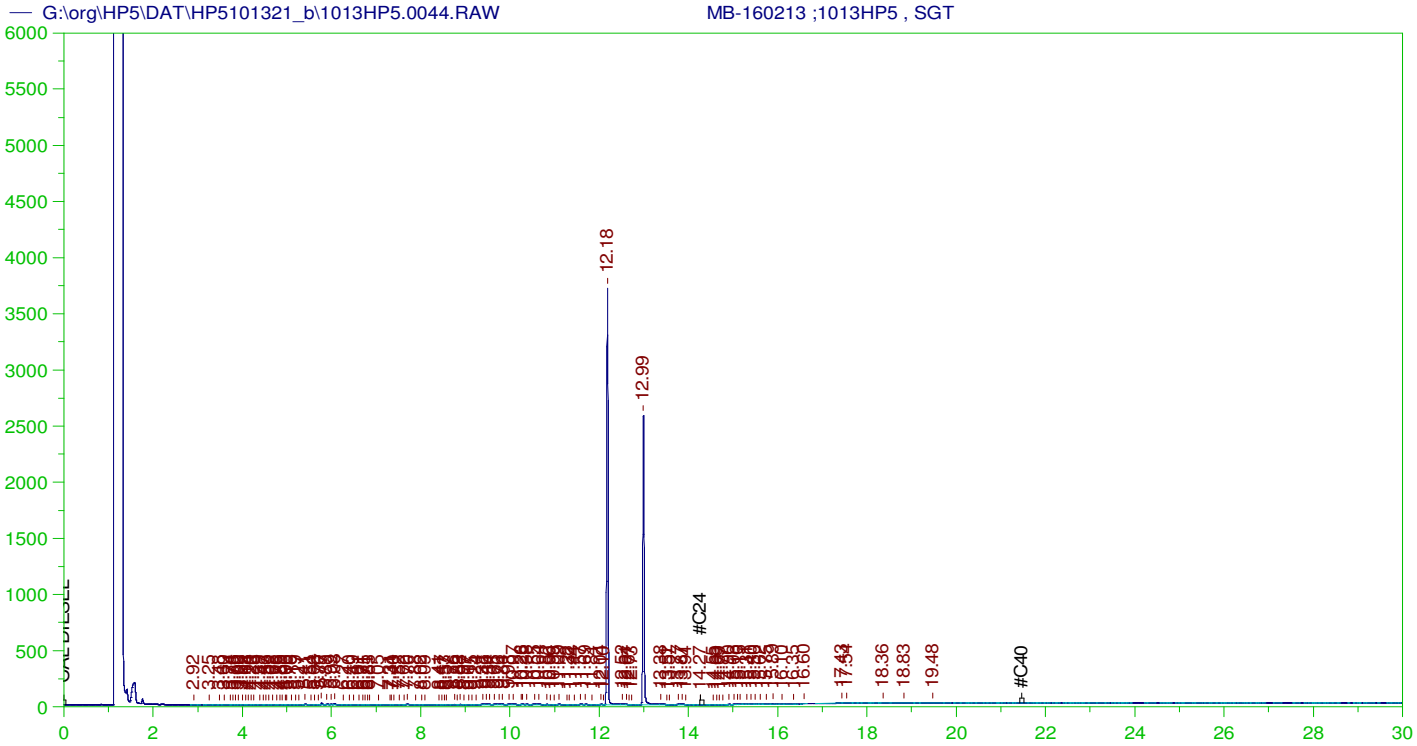


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0044.RAW
Date & Time Acquired: 10/14/2021 8:50:10 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.25 to 21.52

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:75587.62 RRO AMOUNT: 2.648256E-03

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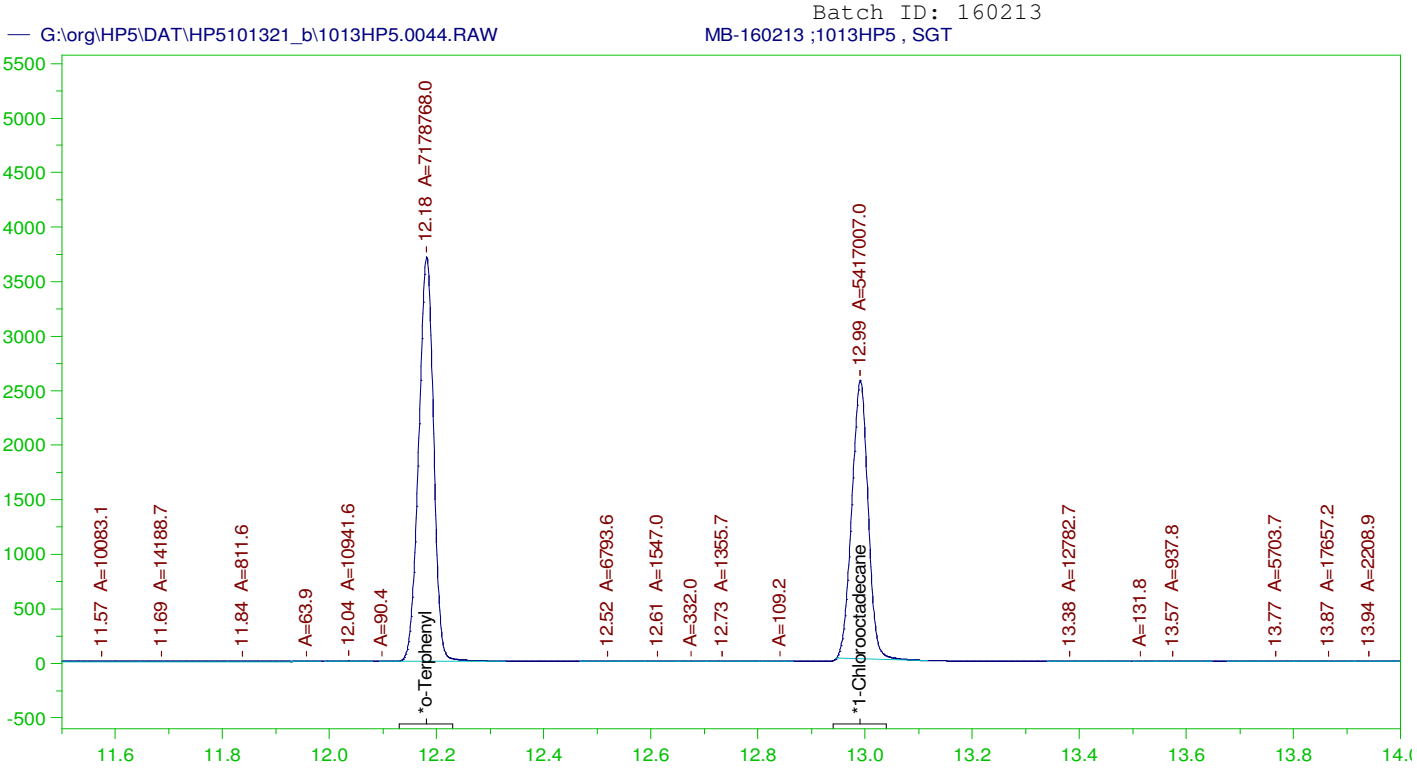
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0044.RAW
Date & Time Acquired: 10/14/2021 8:50:10 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

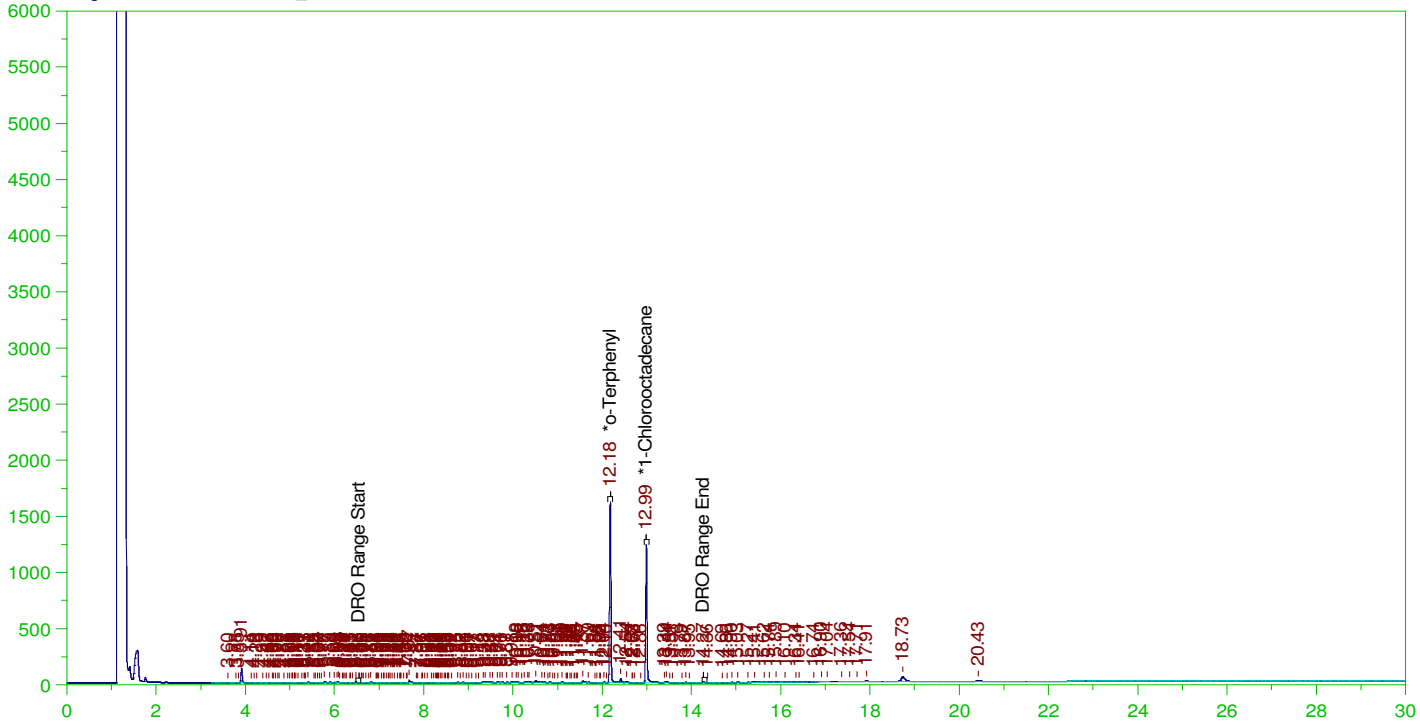
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .205 | 102.35 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .154 | 77.23 | - |

DRO Area:434247.7 DRO Amount: 1.474158E-02
TEH Area:668893.9 TEH Amount: 2.270721E-02

G:\org\HP5\dat\HP5101321_b\Review\044_MB-160213_DS_8015-area-HSA-L#.xls

**ERH1772 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.177 | .19 | .086 | 45.32 | - |
| *1-Chlorooctadecane | 12.987 | .19 | .075 | 39.62 | - |

DRO Area:799013.4 DRO Amount: 2.583279E-02
TEH Area:1628058 TEH Amount: 5.263652E-02

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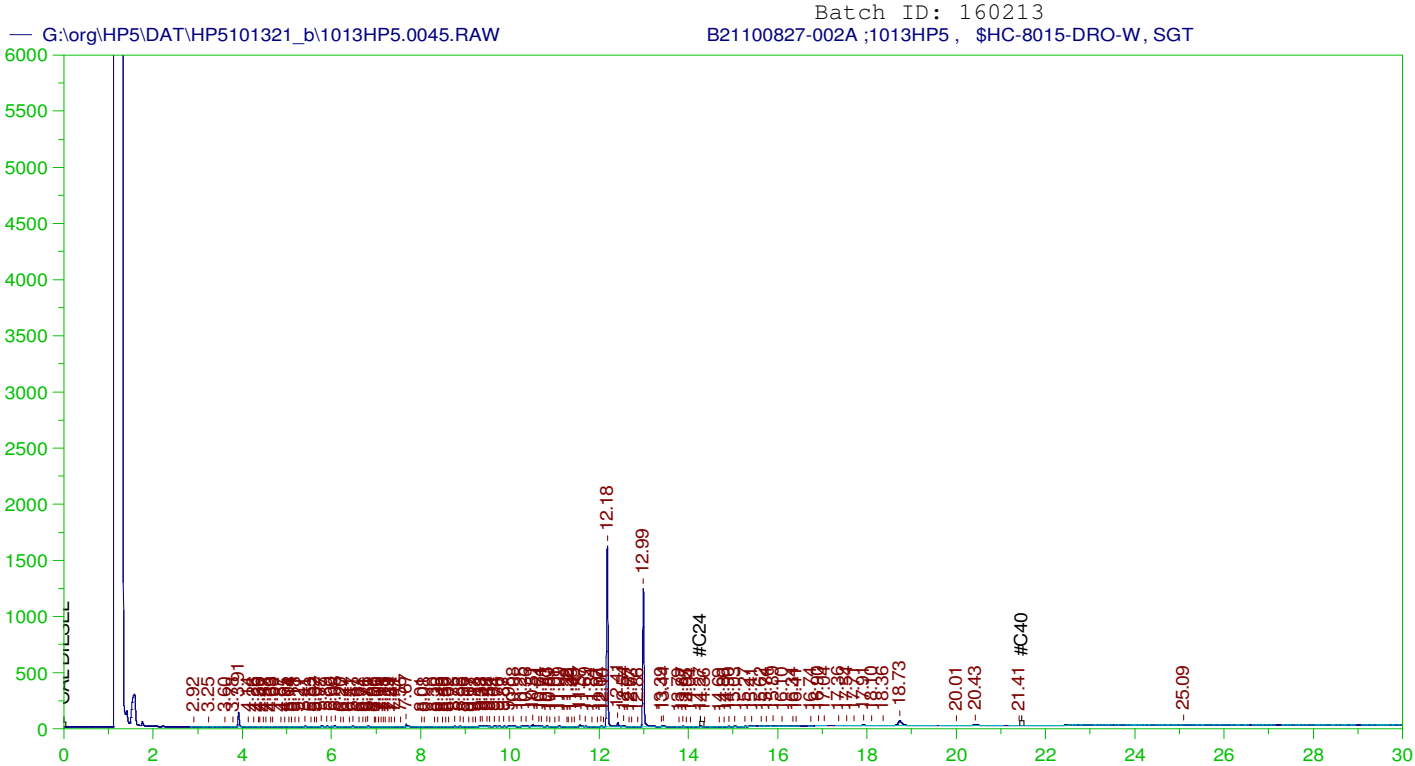
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.25 to 21.52

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:349443.6 RRO AMOUNT: 1.165996E-02

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**ERH1772 (RHMW12A)** Batch ID: 160213

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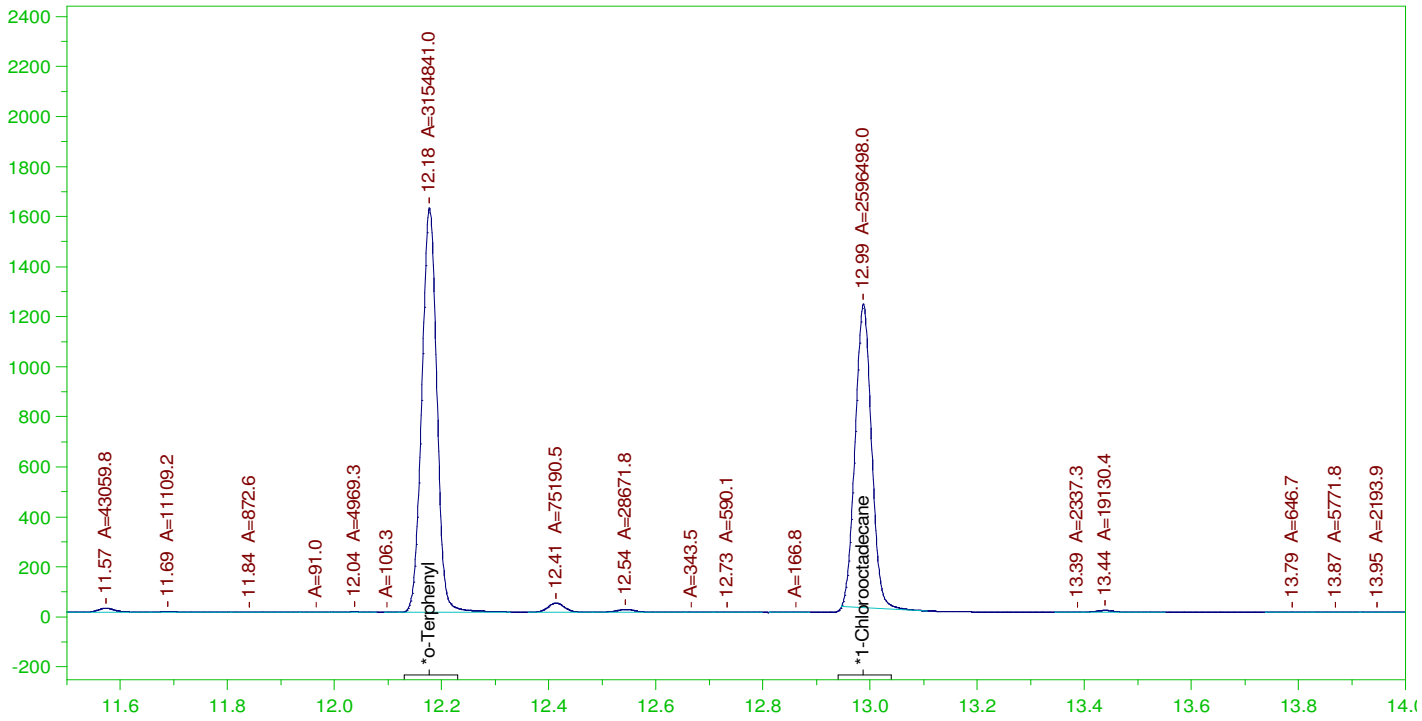



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

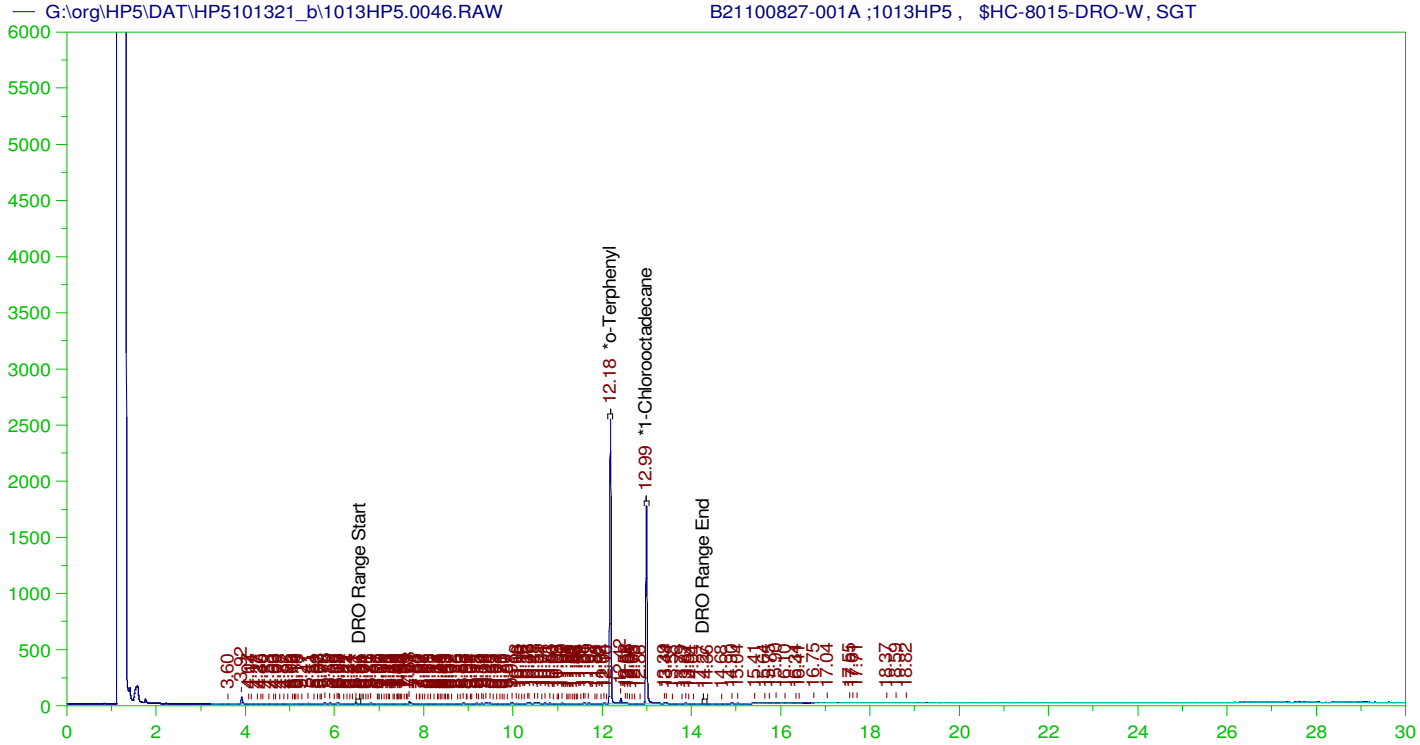
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.177 | .19 | .086 | 44.98 | - |
| *1-Chlorooctadecane | 12.987 | .19 | .071 | 37.02 | - |

DRO Area:675439.8 DRO Amount: 2.183755E-02
TEH Area:1197414 TEH Amount: 3.871342E-02

G:\org\HP5\dat\HP5101321_b\Review\045_B21100827-002A_DS_8015-area-HSA-L#.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .191 | .134 | 70.08 | - |
| *1-Chlorooctadecane | 12.989 | .191 | .108 | 56.38 | - |

DRO Area:621063.5 DRO Amount: 2.017559E-02
TEH Area:961300.5 TEH Amount: 3.122838E-02

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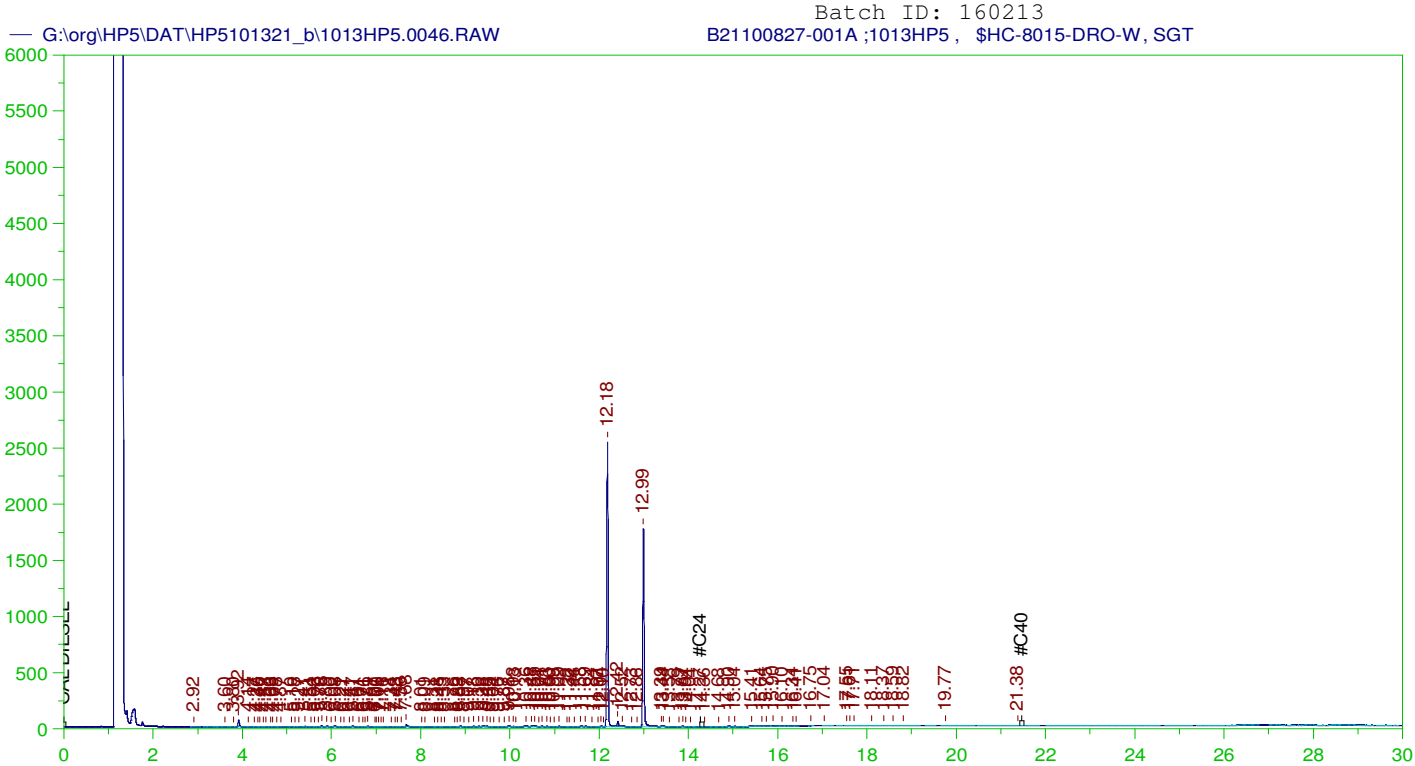
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

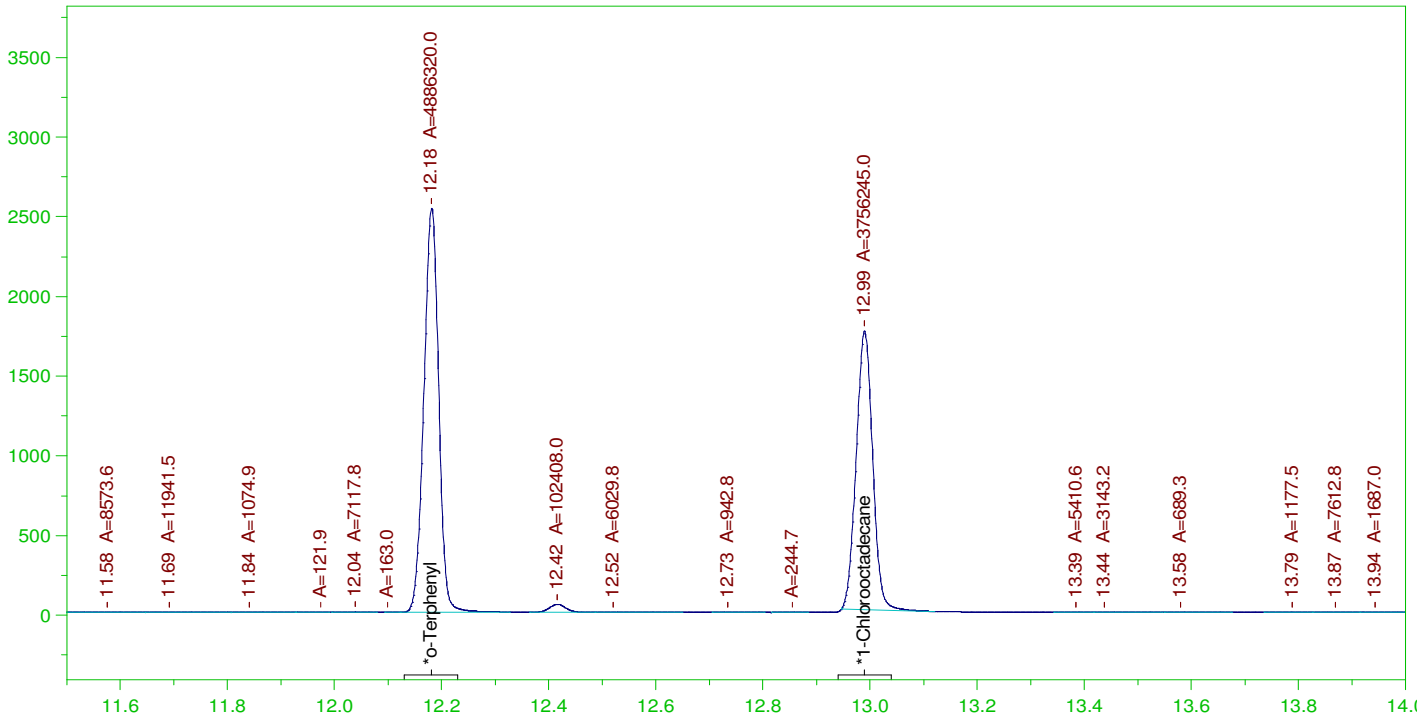
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.25 to 21.52

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:55630.14 RRO AMOUNT: 1.865105E-03

**ERH1767 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

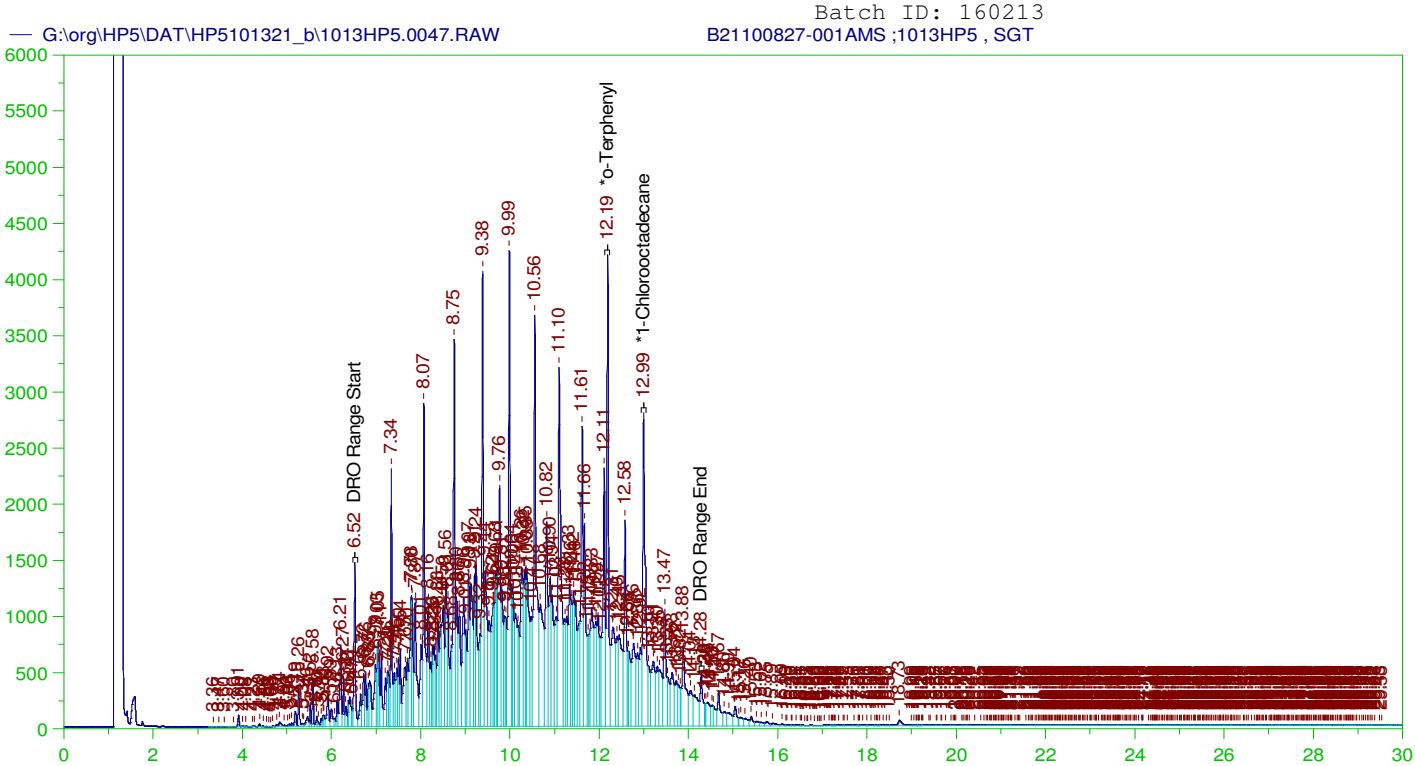
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .191 | .133 | 69.66 | - |
| *1-Chlorooctadecane | 12.989 | .191 | .102 | 53.55 | - |

DRO Area:529016.8 DRO Amount: 0.0171854
TEH Area:834788.9 TEH Amount: 2.711858E-02

G:\org\HP5\dat\HP5101321_b\Review\046_B21100827-001A_DS_8015-area-HSA-L#.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMS ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0047.RAW
Date & Time Acquired: 10/14/2021 10:58:49 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

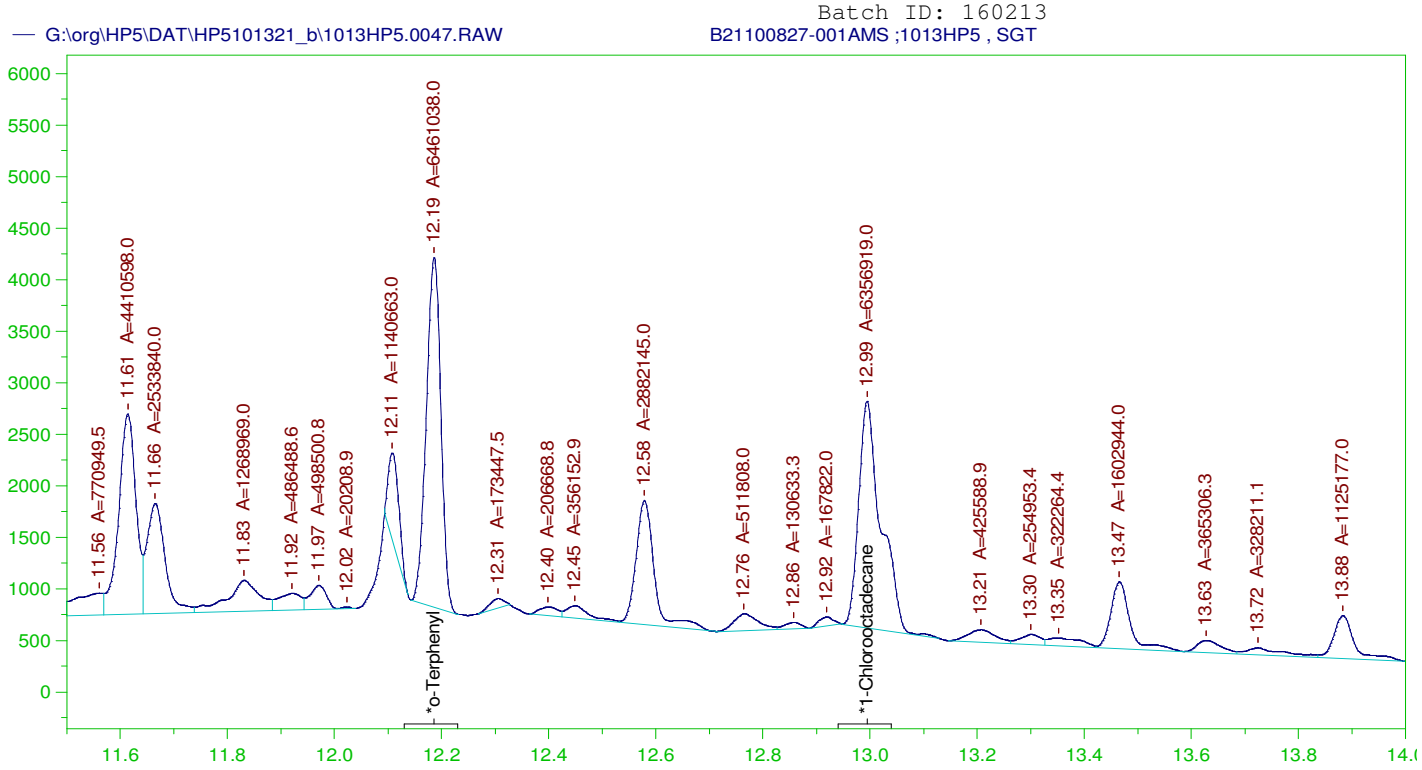
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.186 | .4 | .651 | 162.83 | - |
| *1-Chlorooctadecane | 12.994 | .4 | .64 | 159.99 | - |

DRO Area:3.887462E+08 DRO Amount: 26.39385
TEH Area:4.128518E+08 TEH Amount: 28.03049

G:\org\HP5\dat\HP5101321_b\Review\047_B21100827-001AMS_D3_8015-C24-HSa-L%.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMS ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0047.RAW
Date & Time Acquired: 10/14/2021 10:58:49 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.186 | .4 | .368 | 92.11 | - |
| *1-Chlorooctadecane | 12.994 | .4 | .363 | 90.63 | - |

DRO Area:1.891908E+08 DRO Amount: 12.84508
TEH Area:1.996046E+08 TEH Amount: 13.55212

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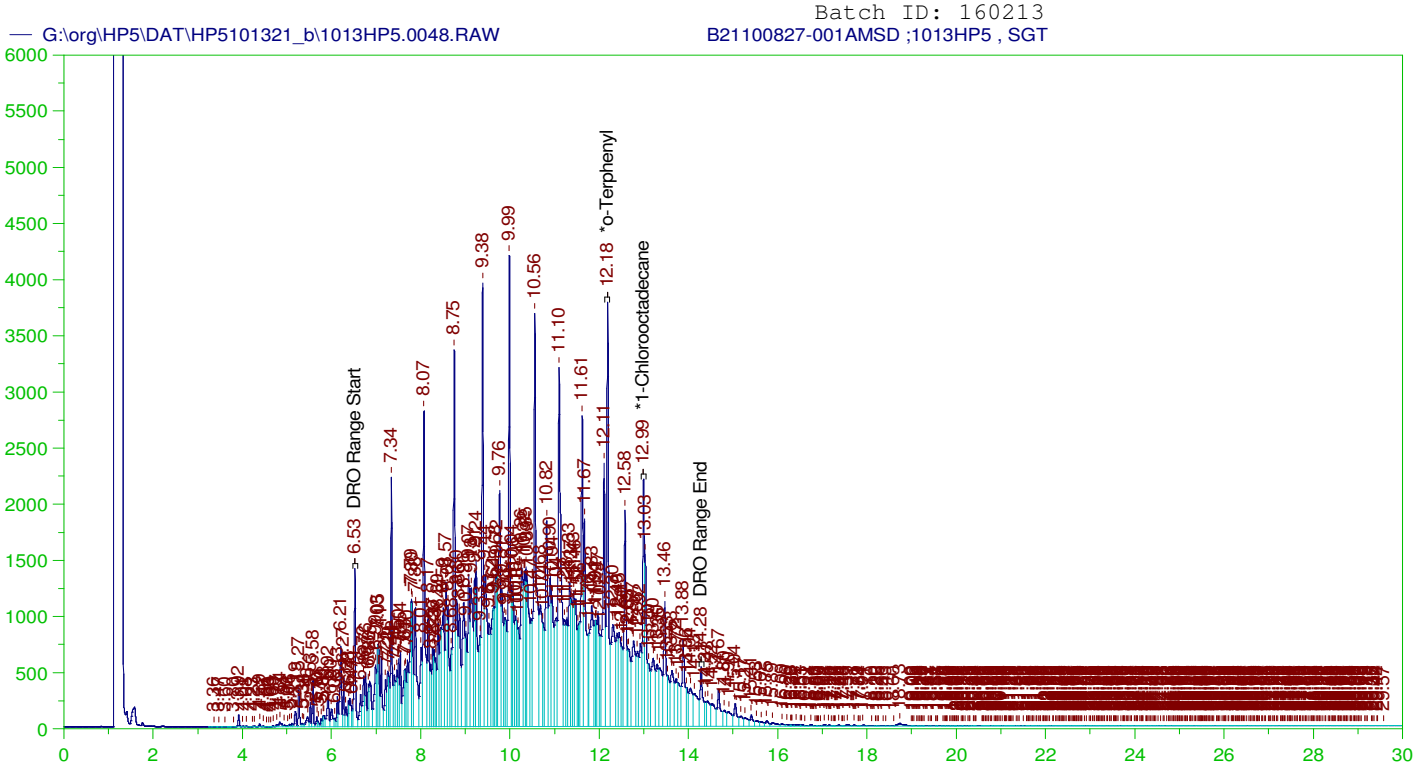
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

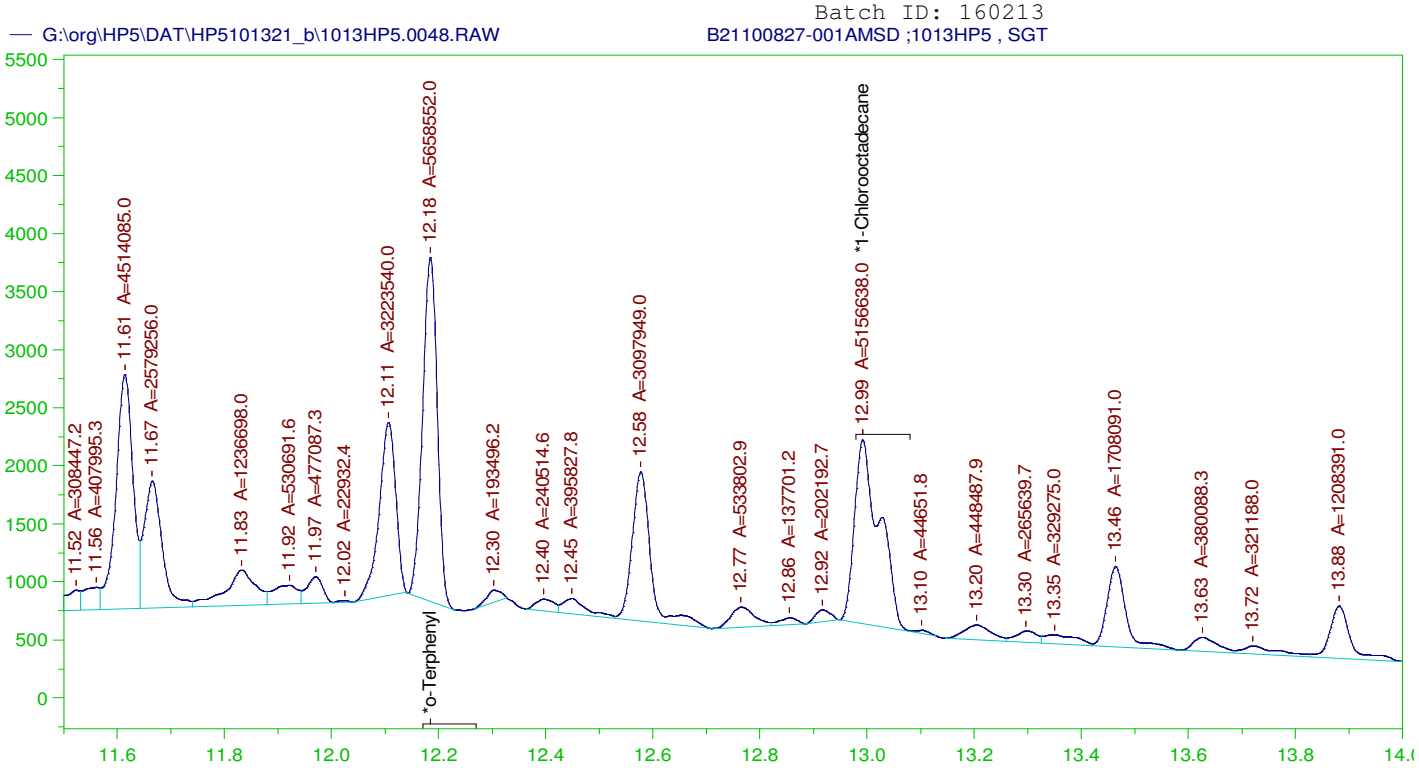
Sample Name: B21100827-001AMSD ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0048.RAW
Date & Time Acquired: 10/14/2021 11:41:43 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | .4 | .609 | 152.14 | - |
| *1-Chlorooctadecane | 12.992 | .4 | .348 | 86.93 | - |

DRO Area:3.915414E+08 DRO Amount: 26.58363
TEH Area:4.160698E+08 TEH Amount: 28.24898

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMSD ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0048.RAW
Date & Time Acquired: 10/14/2021 11:41:43 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | .4 | .323 | 80.67 | - |
| *1-Chlorooctadecane | 12.992 | .4 | .294 | 73.52 | - |

DRO Area:1.875254E+08 DRO Amount: 12.732
TEH Area:1.965738E+08 TEH Amount: 13.34634

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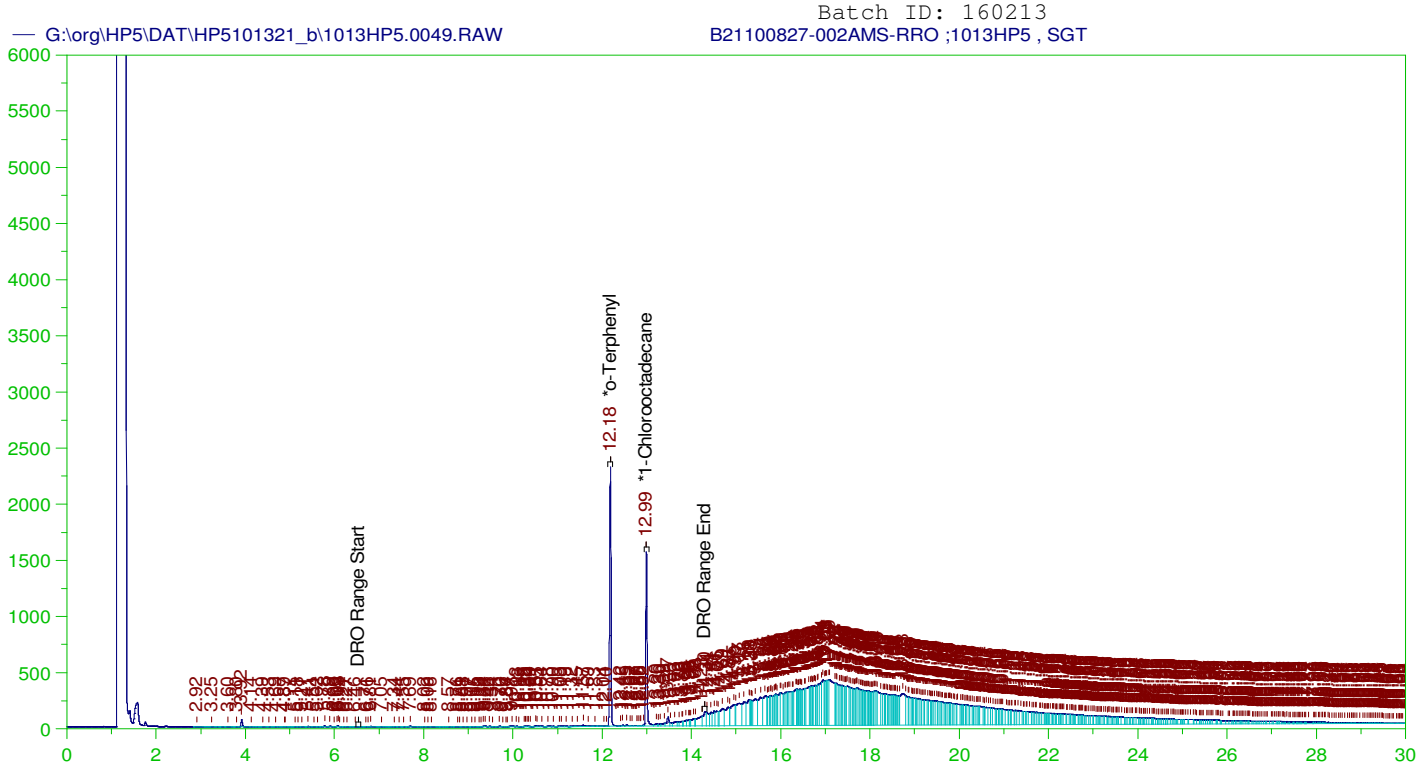


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0049.RAW
Date & Time Acquired: 10/15/2021 12:24:34 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .252 | 64.94 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .197 | 50.78 | - |

DRO Area:4442596 DRO Amount: 0.3022309
TEH (Oil Range) Area:1.284118E+08 TEH (Oil Range) Amount: 8.735885

AMN 10/21/2021

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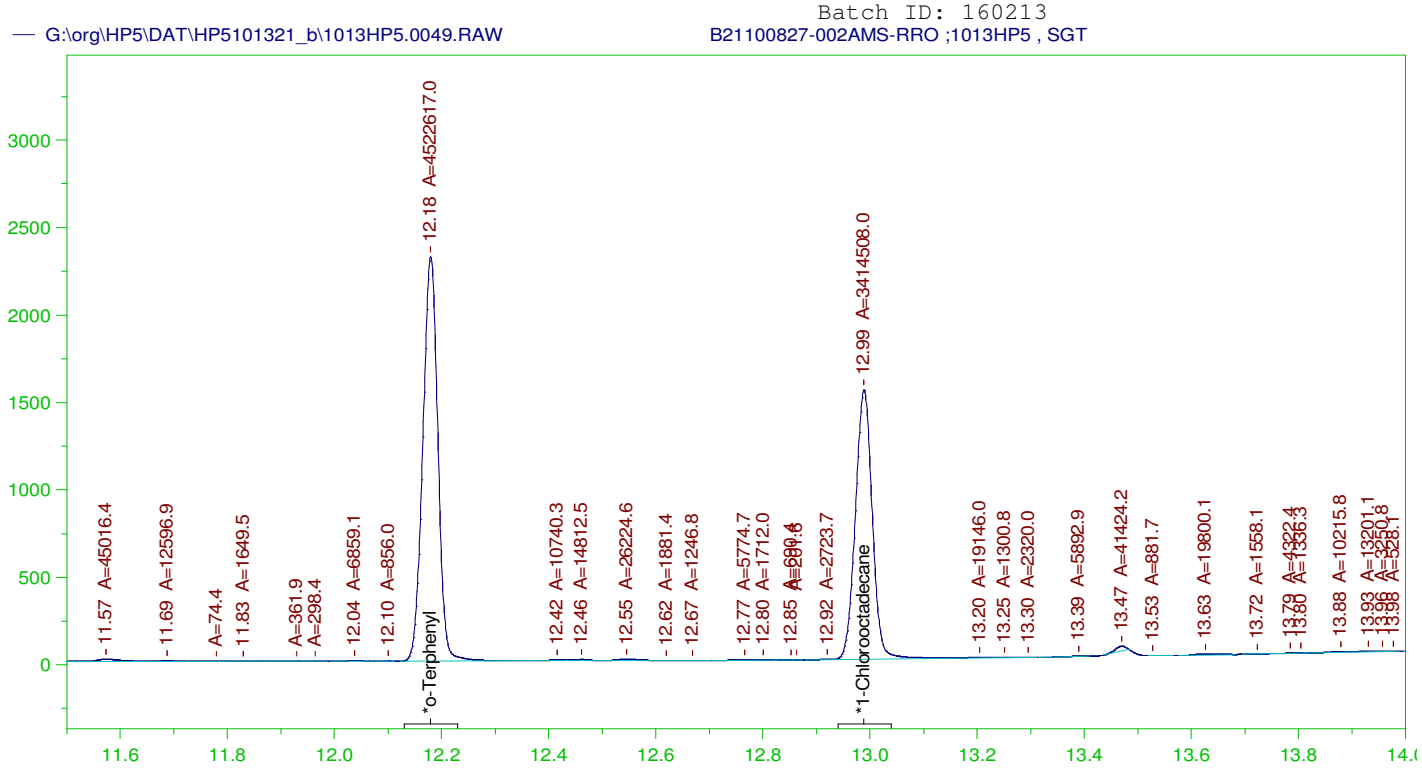
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0049.RAW
Date & Time Acquired: 10/15/2021 12:24:34 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .25 | 64.48 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .189 | 48.68 | - |

DRO Area:738142.7 DRO Amount: 5.021604E-02
TEH Area:2434181 TEH Amount: 0.1655979

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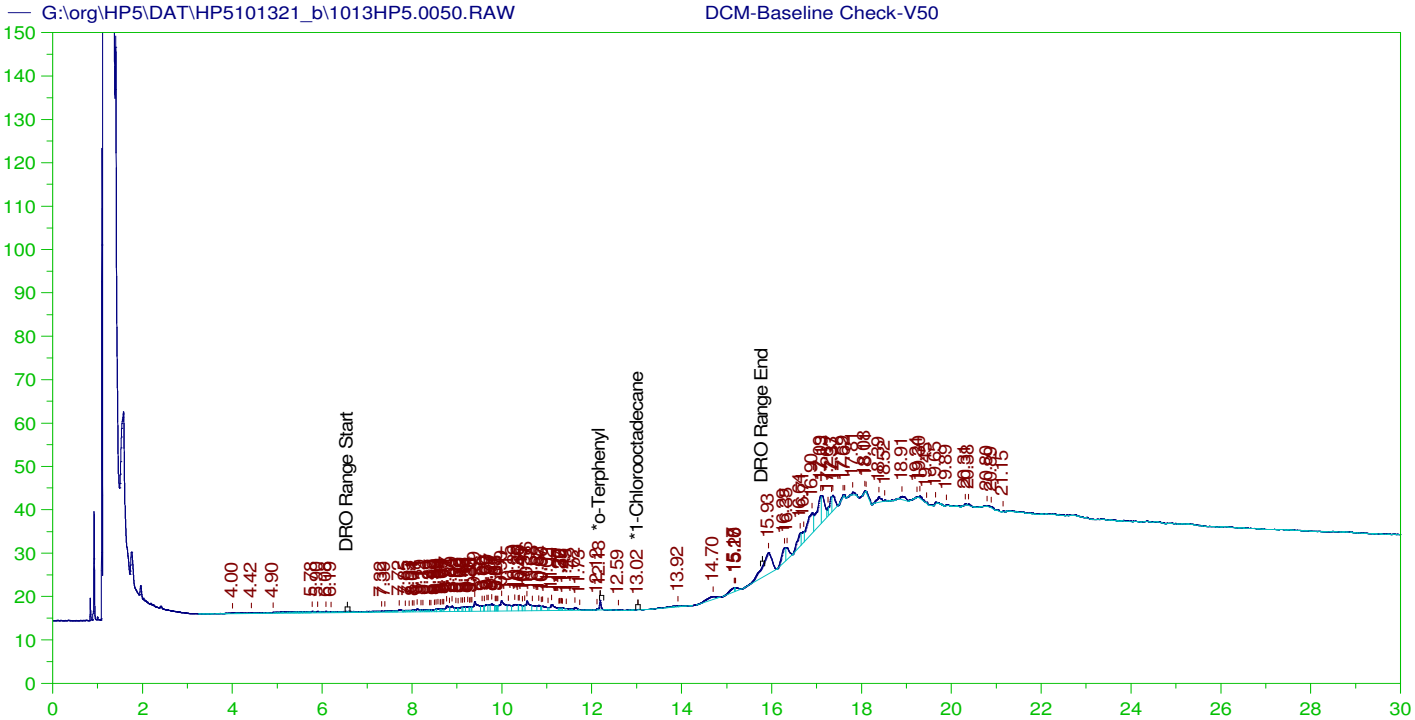



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

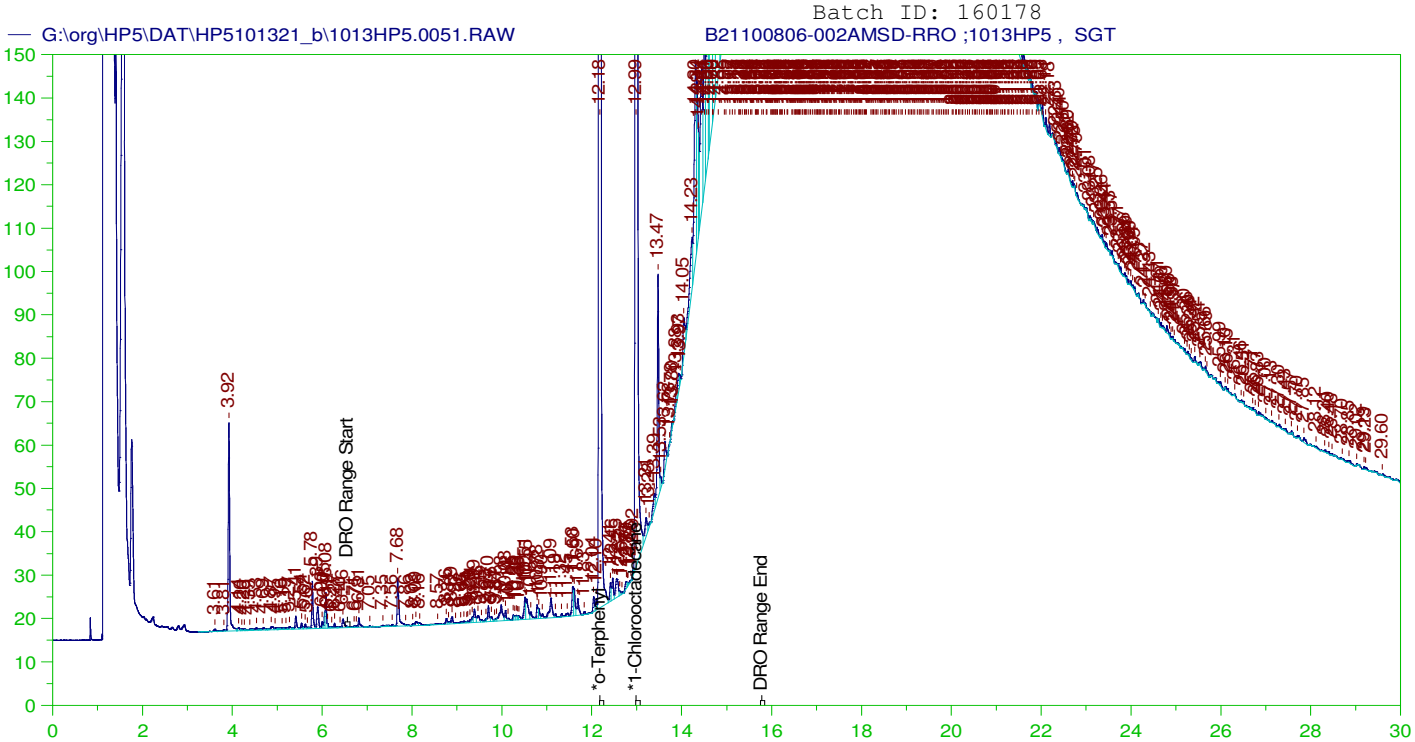
Sample Name: DCM-Baseline Check-V50
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0050.RAW
Date & Time Acquired: 10/15/2021 1:07:28 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.183 | 200. | .185 | .09 | - |
| *1-Chlorooctadecane | 13.024 | 200. | .015 | .01 | - |

DRO Area:265331.7 DRO Amount: 9.007322
TEH Area:652107.5 TEH Amount: 22.13736

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

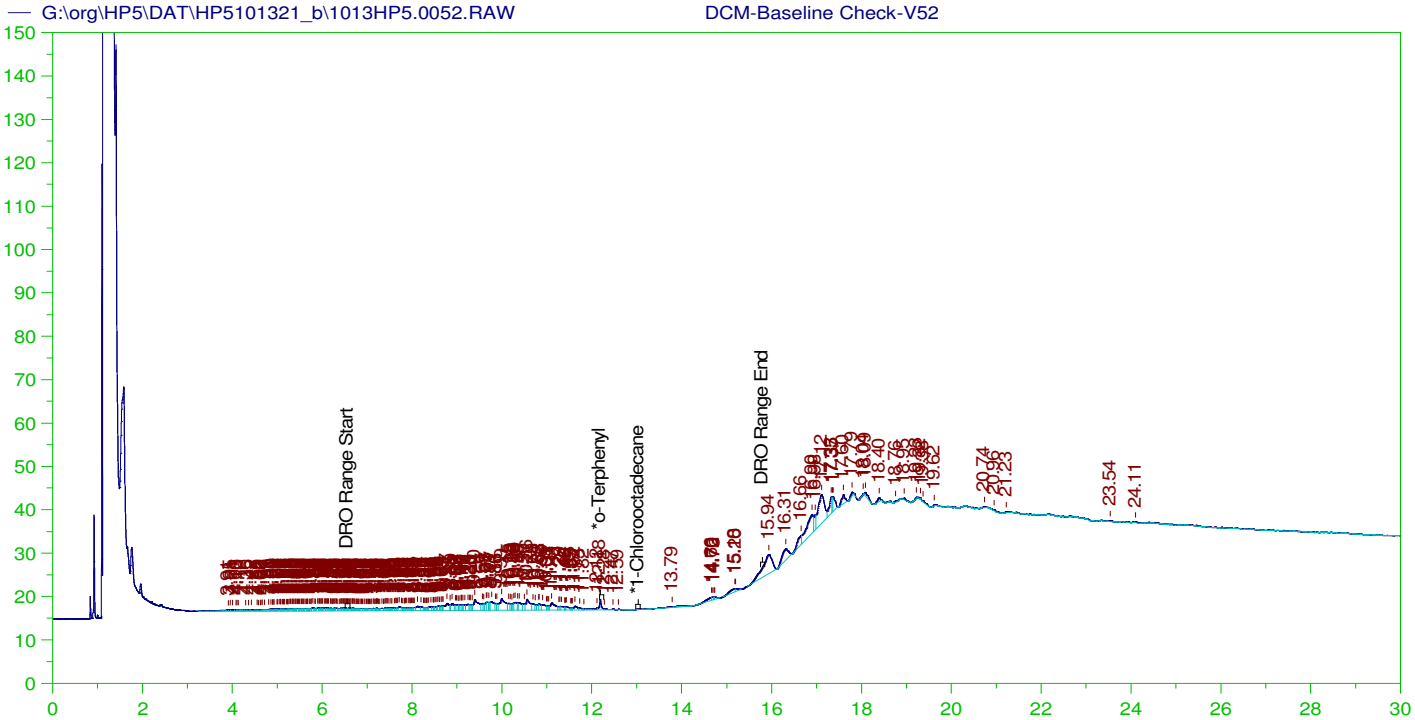
Sample Name: B21100806-002AMSD-RRO ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0051.RAW
Date & Time Acquired: 10/15/2021 1:50:20 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .392 | .217 | 55.33 | - |
| *1-Chlorooctadecane | 12.99 | .392 | .184 | 46.88 | - |

DRO Area:4879029 DRO Amount: 0.3247654
TEH Area:1.137819E+07 TEH Amount: 0.7573723

G:\org\HP5\dat\HP5101321_b\Review\051_B21100806-002AMSD-RRO_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V52
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0052.RAW
Date & Time Acquired: 10/15/2021 2:33:14 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | .243 | .12 | - |
| *1-Chlorooctadecane | 29.989 | 200. | . | . | - |

DRO Area:376194.8 DRO Amount: 12.77084
TEH Area:782327.4 TEH Amount: 26.55799

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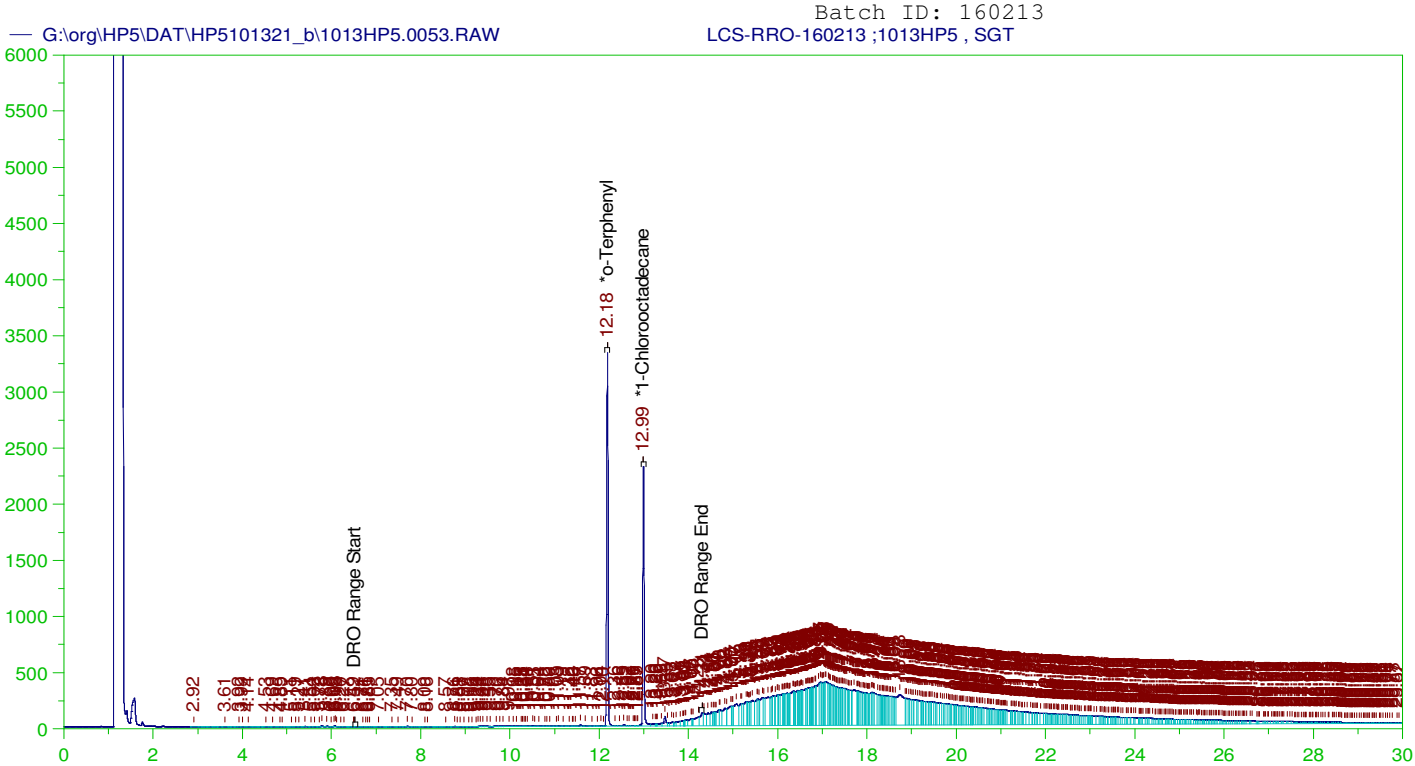
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-RRO-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0053.RAW
Date & Time Acquired: 10/15/2021 3:16:03 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .185 | 92.41 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .149 | 74.54 | - |

DRO Area:3731566 DRO Amount: 0.1307376
TEH (Oil Range) Area:1.219831E+08 TEH (Oil Range) Amount: 4.273749

AMN 10/21/2021

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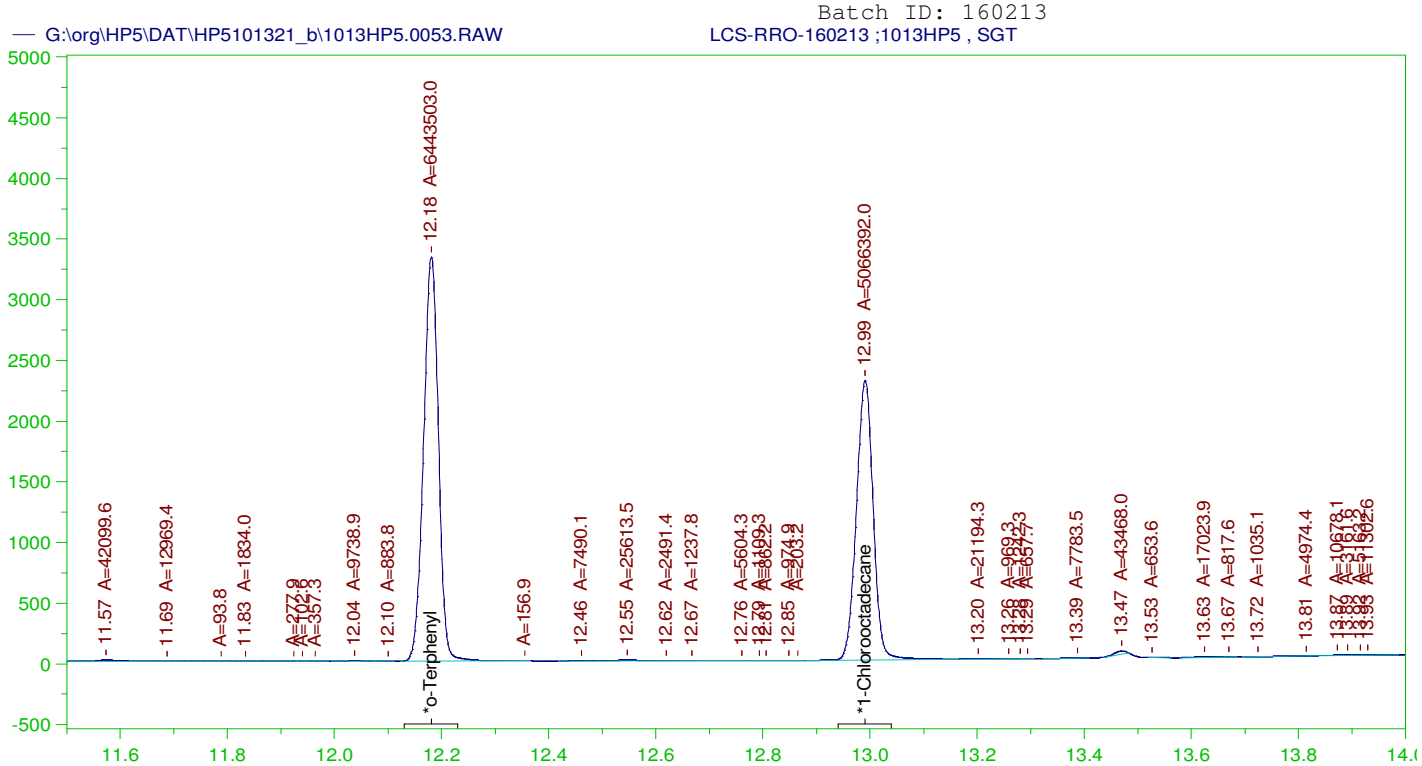
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-RRO-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0053.RAW
Date & Time Acquired: 10/15/2021 3:16:03 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .184 | 91.86 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .144 | 72.23 | - |

DRO Area:614931.8 DRO Amount: 2.154449E-02
TEH Area:2037532 TEH Amount: 7.138611E-02

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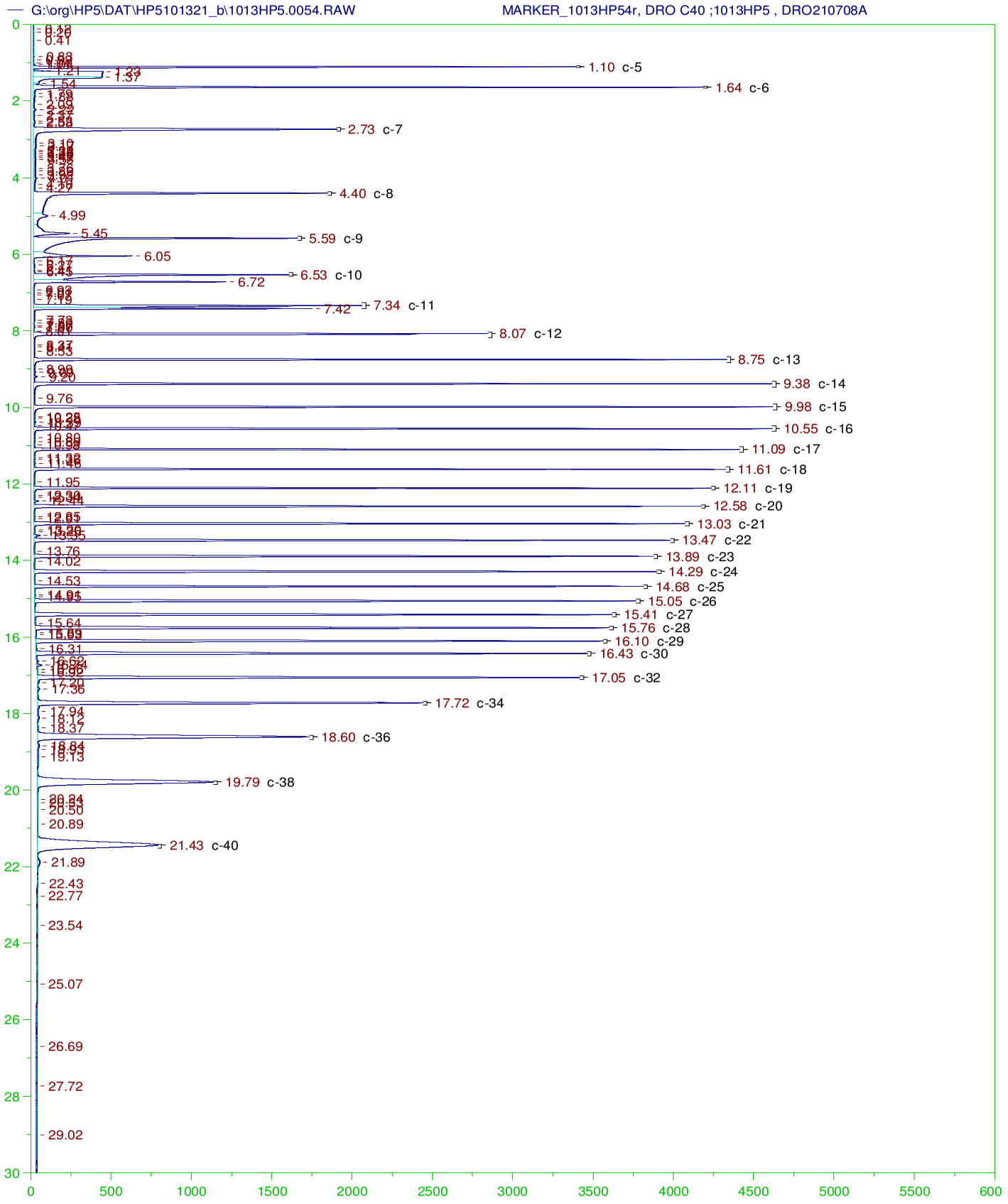


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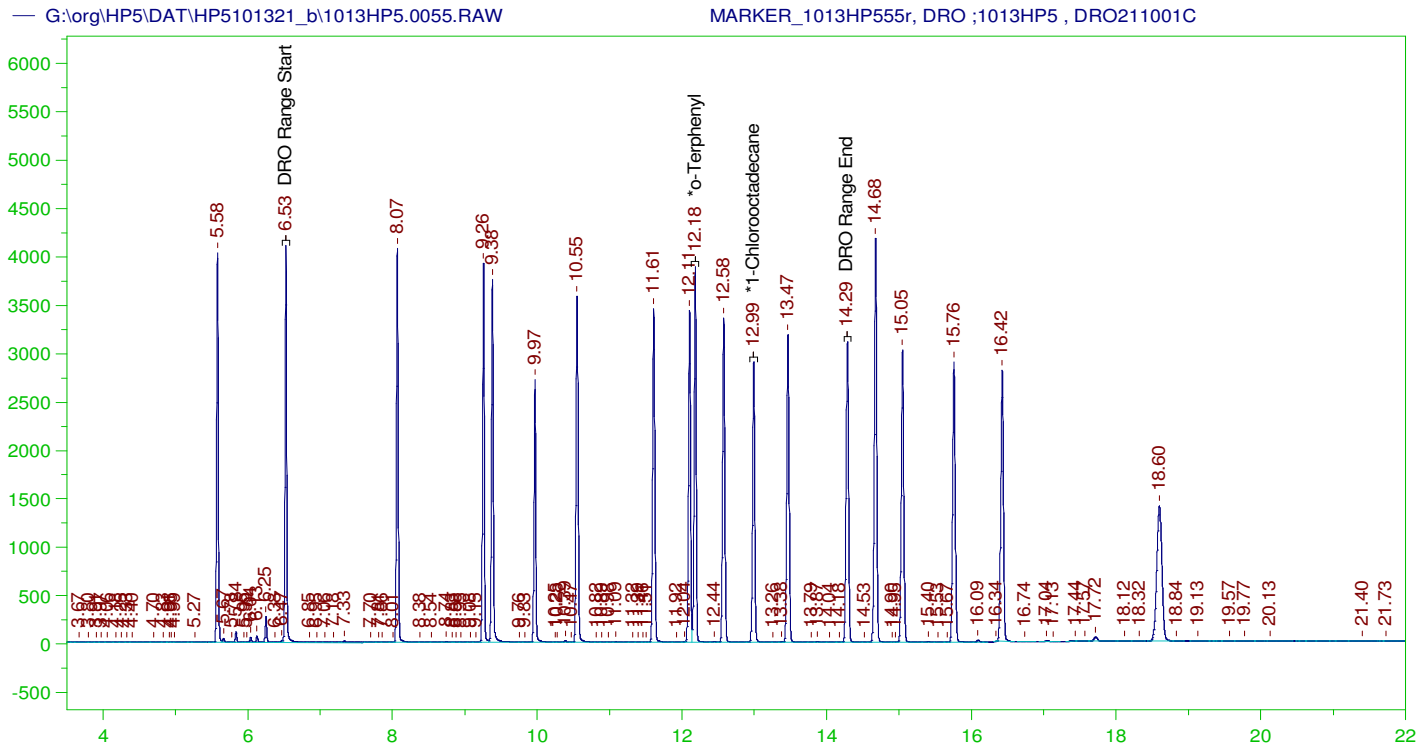



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

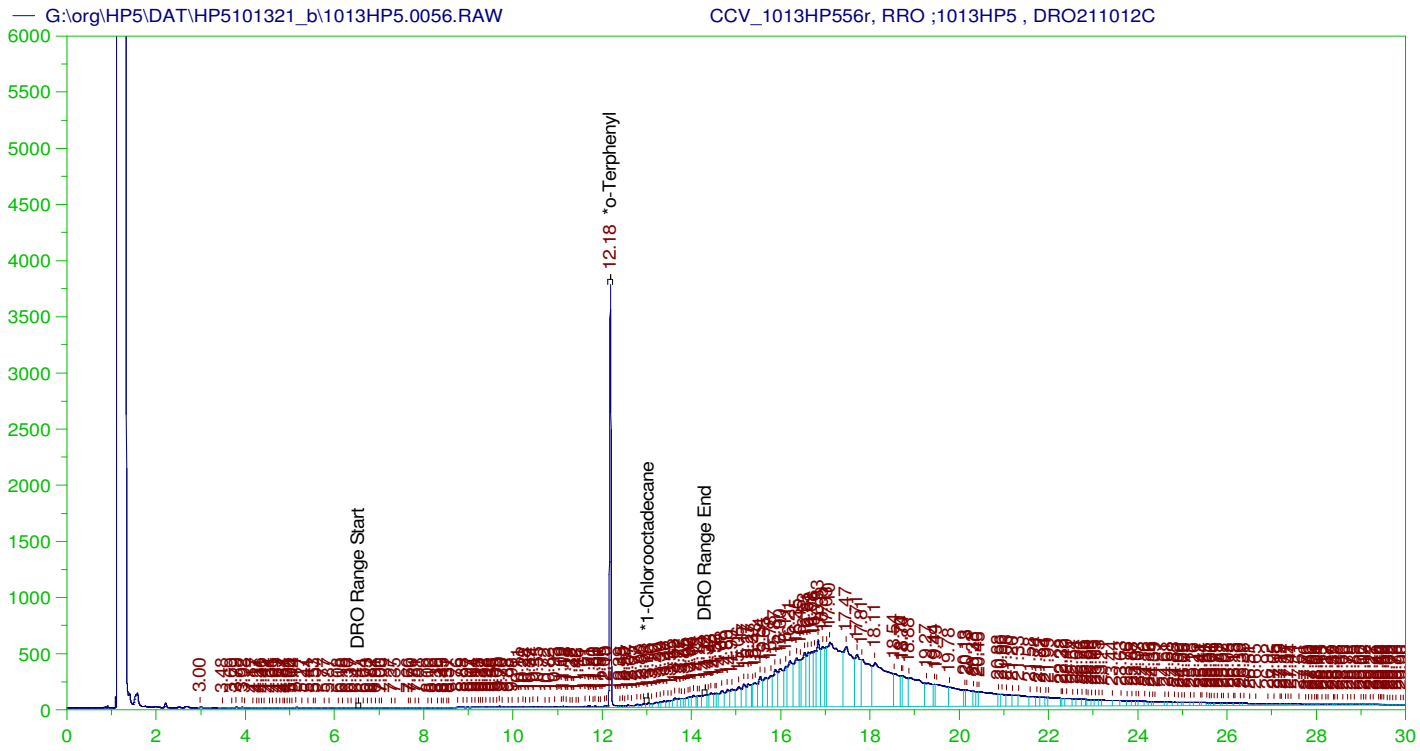
Sample Name: MARKER_1013HP555r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0055.RAW
Date & Time Acquired: 10/15/2021 4:41:38 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.183 | .2 | .217 | 108.73 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .176 | 88.1 | - |

DRO Area:7.482385E+07 DRO Amount: 2.540076
TEH Area:1.215464E+08 TEH Amount: 4.126184

G:\org\HP5\dat\HP5101321_b\Review\055_MARKER_1013HP555r_DC_8015-24-HSa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP556r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW
Date & Time Acquired: 10/15/2021 5:24:30 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 211.092 | 105.55 | - |
| *1-Chlorooctadecane | 13.027 | 200. | 4.709 | 2.35 | - |

DRO Area:6572929 DRO Amount: 230.2864
TEH (Oil Range) Area:1.342254E+08 TEH (Oil Range) Amount: 4702.664

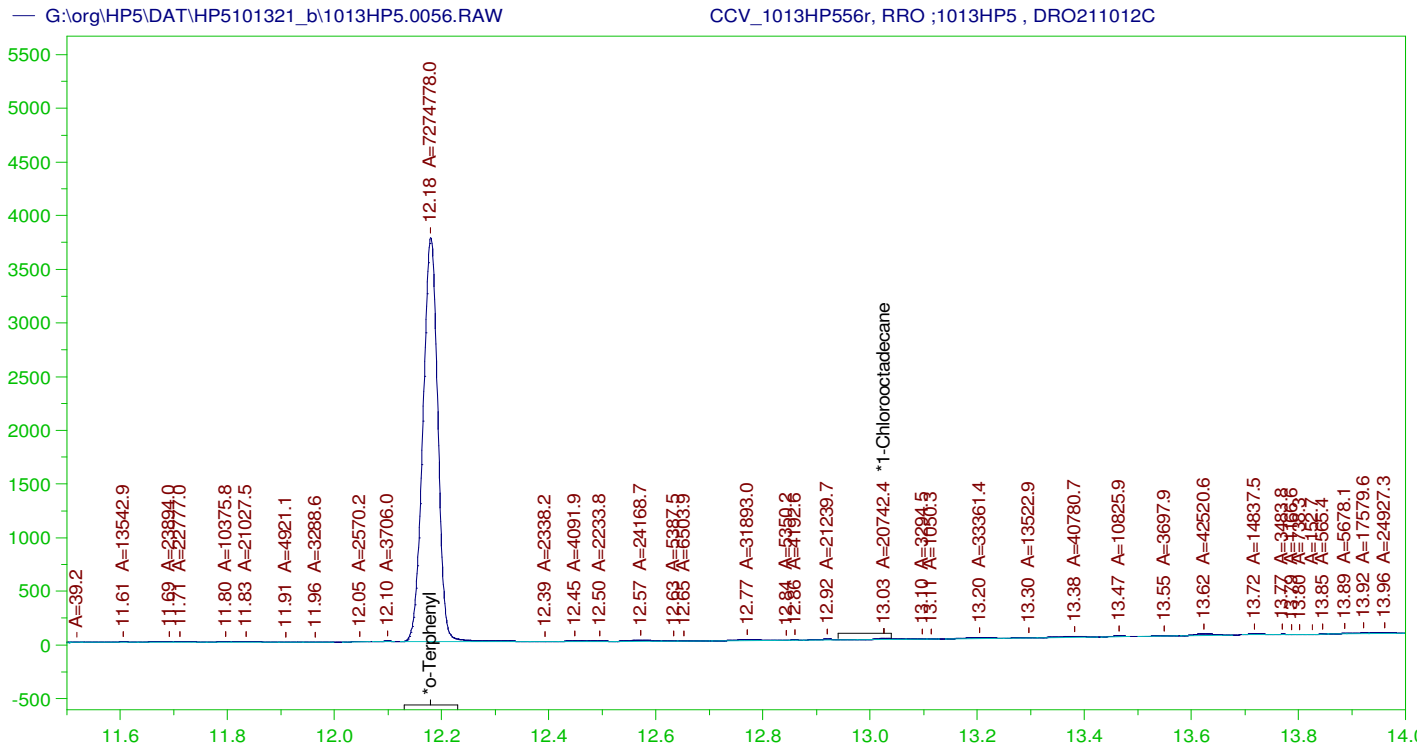
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4702.66 | 94.05 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 211.092 | 105.55 | 85-115 |
| *1-Chlorooctadecane | 13.027 | 200. | 4.709 | 2.35 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\056_CCV_1013HP556r_DC_OIL-AJA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP556r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW
Date & Time Acquired: 10/15/2021 5:24:30 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

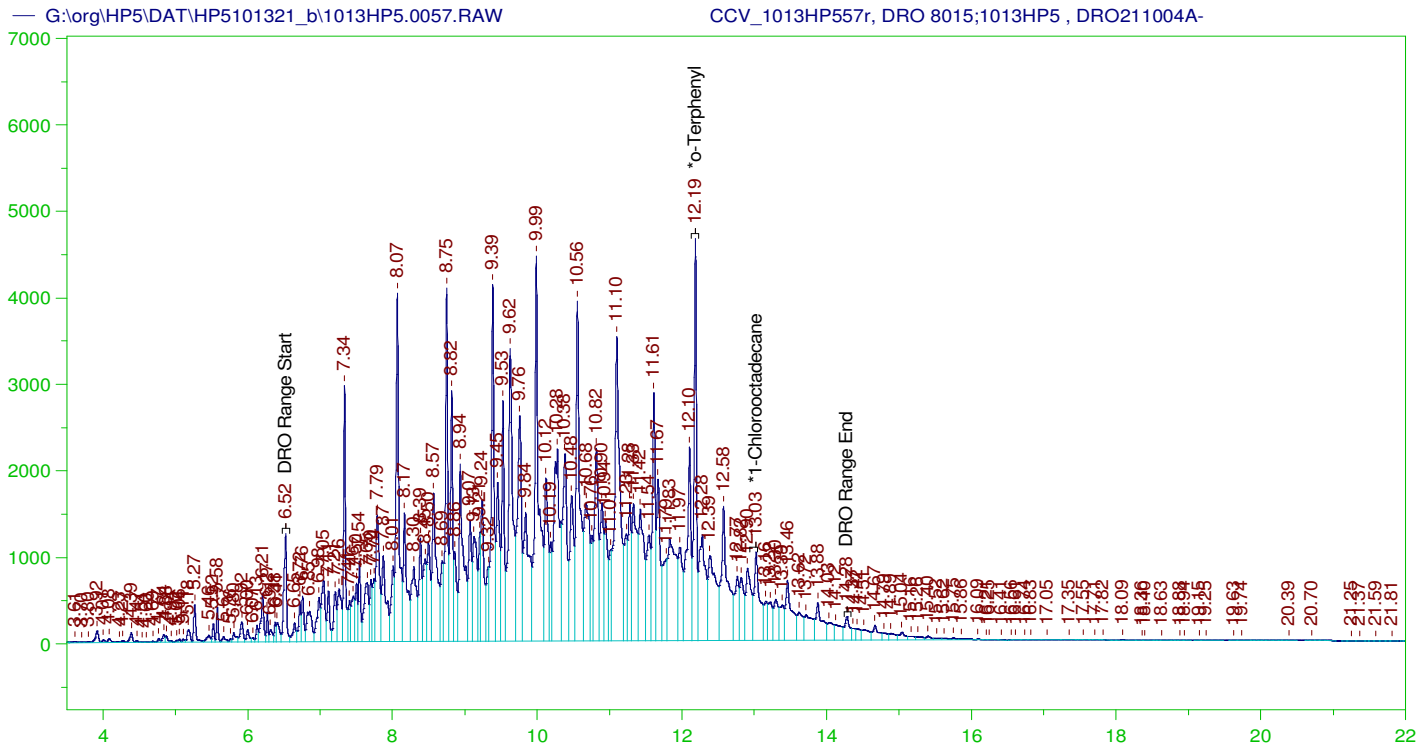
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 207.429 | 103.71 | - |
| *1-Chlorooctadecane | 13.027 | 200. | .591 | .3 | - |

DRO Area:820545.8 DRO Amount: 28.7483
TEH Area:2102297 TEH Amount: 73.6552

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 73.66 | 1.47 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 207.429 | 103.71 | 85-115 |
| *1-Chlorooctadecane | 13.027 | 200. | .591 | .3 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW
Date & Time Acquired: 10/15/2021 6:07:16 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 330.171 | 165.09 | - |
| *1-Chlorooctadecane | 13.025 | 200. | 151.391 | 75.7 | - |

DRO Area:4.380289E+08 DRO Amount: 14869.94
TEH Area:4.53984E+08 TEH Amount: 15411.58

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15411.58 | 102.74 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 330.171 | 165.09 | 85-115 |
| *1-Chlorooctadecane | 13.025 | 200. | 151.391 | 75.7 | 85-115 |

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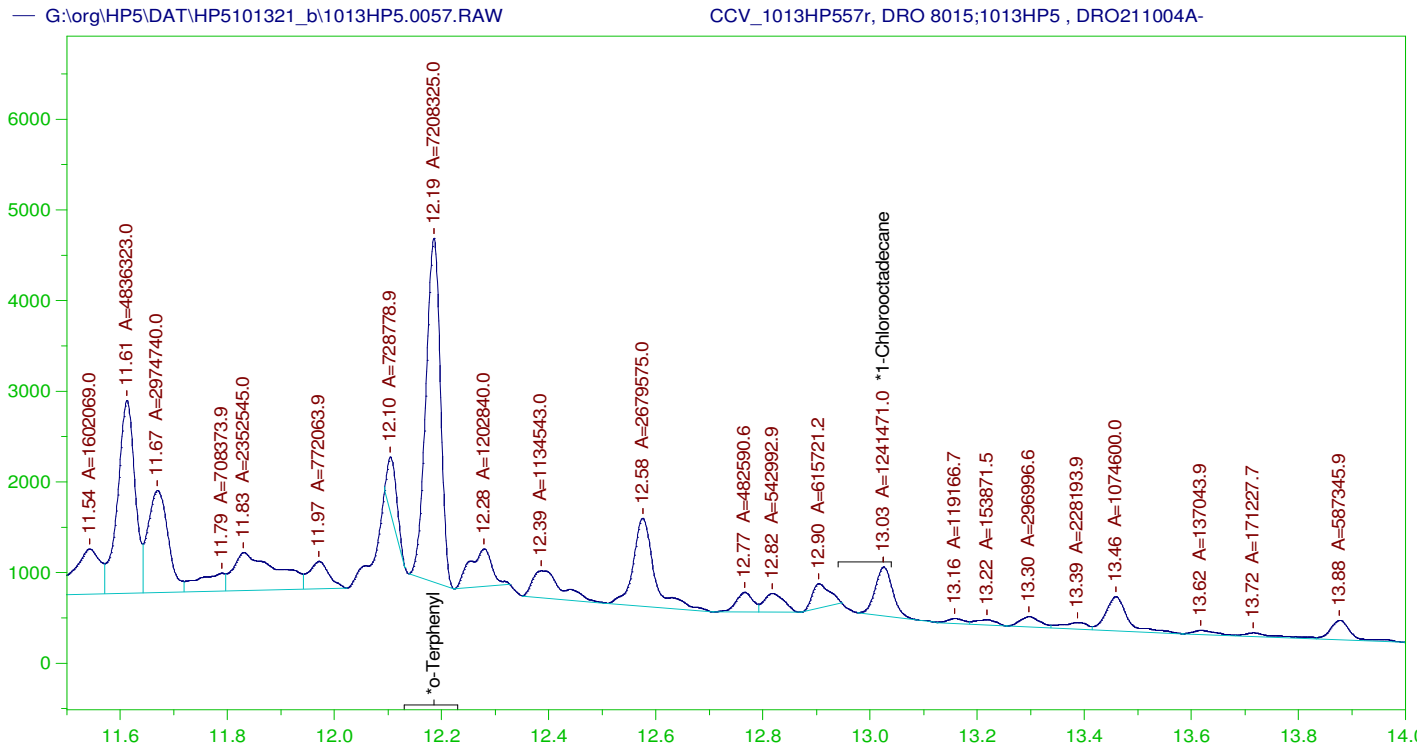


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW
Date & Time Acquired: 10/15/2021 6:07:16 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 205.534 | 102.77 | - |
| *1-Chlorooctadecane | 13.025 | 200. | 35.399 | 17.7 | - |

DRO Area:2.444846E+08 DRO Amount: 8299.618
TEH Area:2.54436E+08 TEH Amount: 8637.443

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8637.44 | 57.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 205.534 | 102.77 | 85-115 |
| *1-Chlorooctadecane | 13.025 | 200. | 35.399 | 17.7 | 85-115 |

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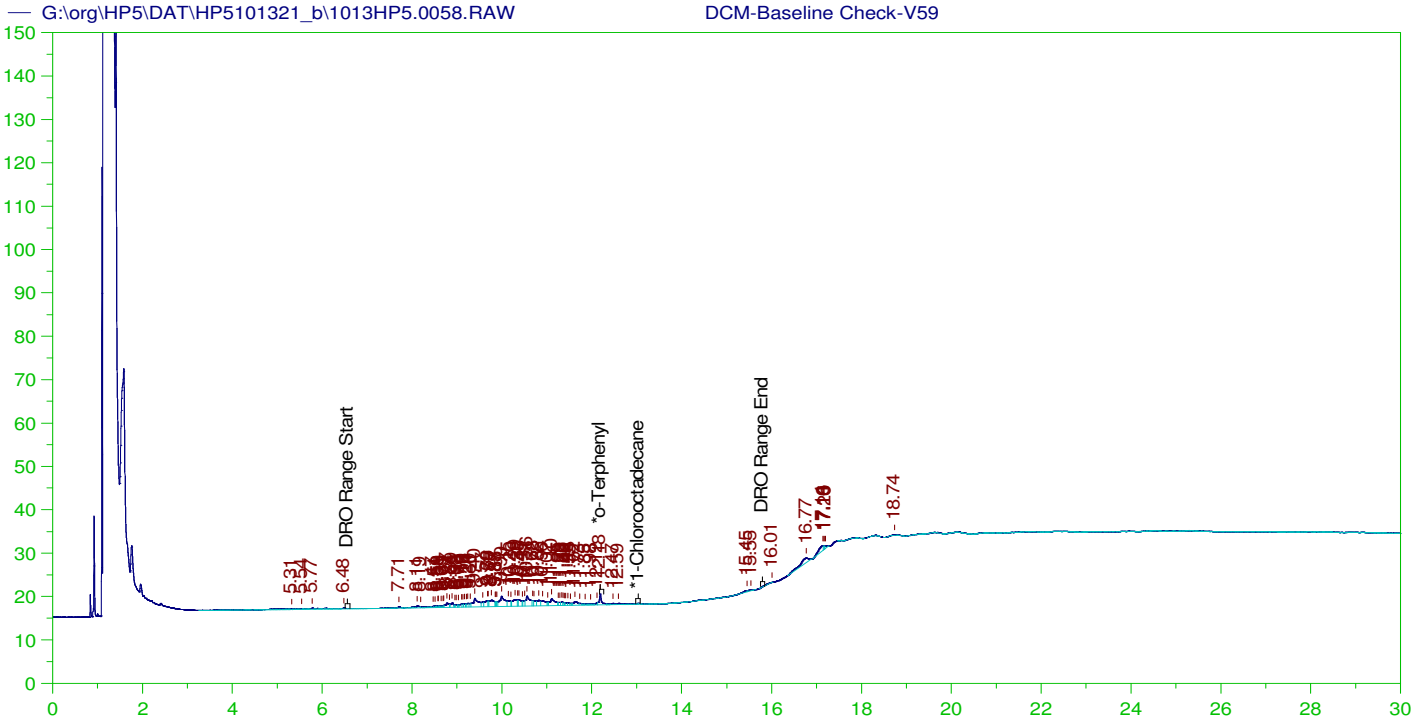



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V59
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0058.RAW
Date & Time Acquired: 10/15/2021 6:50:06 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

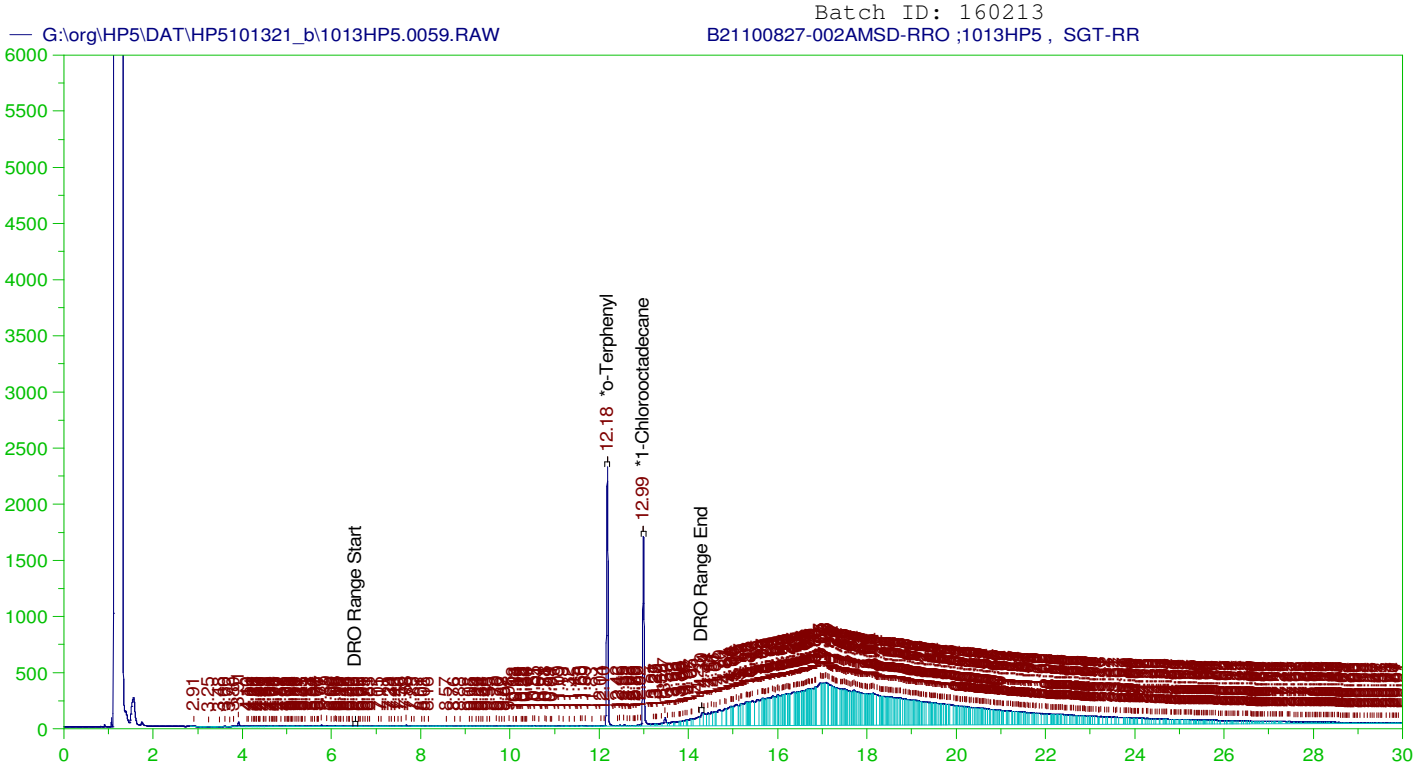
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.183 | 200. | .277 | .14 | - |
| *1-Chlorooctadecane | 29.994 | 200. | . | . | - |

DRO Area:224378.9 DRO Amount: 7.61708
TEH Area:290379.5 TEH Amount: 9.857631

G:\org\HP5\dat\HP5101321_b\Review\058_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMSD-RRO ;1013HP5 , SGT-RR
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0059.RAW
Date & Time Acquired: 10/15/2021 7:39:38 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .25 | 64.35 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .216 | 55.58 | - |

DRO Area:3599159 DRO Amount: 0.2448517
TEH (Oil Range) Area:1.184108E+08 TEH (Oil Range) Amount: 8.055515

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\059_B21100827-002AMSD-RRO_D3_OIL-AJA-L%.xls

Batch ID: 160213

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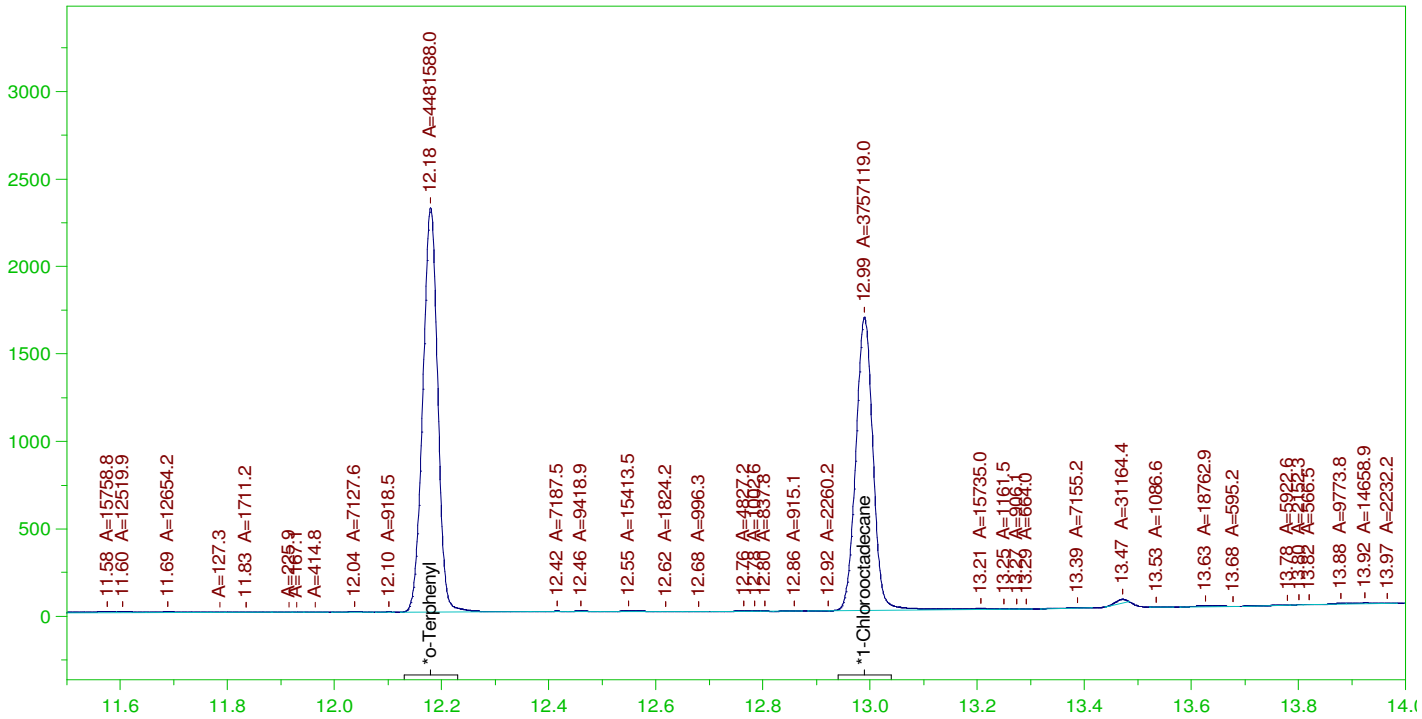



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

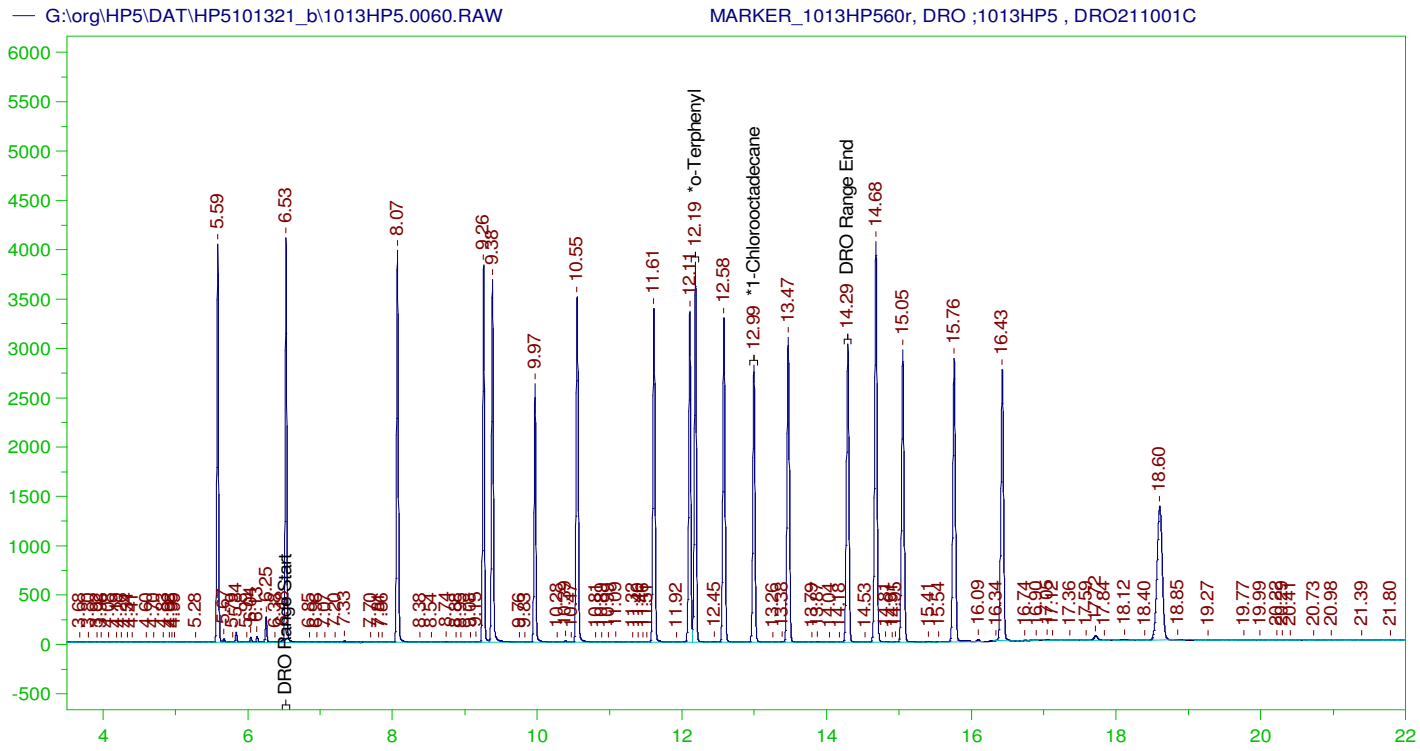
Sample Name: B21100827-002AMSD-RRO ;1013HP5 , SGT-RR
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0059.RAW
Date & Time Acquired: 10/15/2021 7:39:38 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .248 | 63.89 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .208 | 53.56 | - |

DRO Area:603208.6 DRO Amount: 4.103643E-02
TEH Area:2187615 TEH Amount: 0.148824

G:\org\HP5\dat\HP5101321_b\Review\059_B21100827-002AMSD-RRO_DS_OIL-AJA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

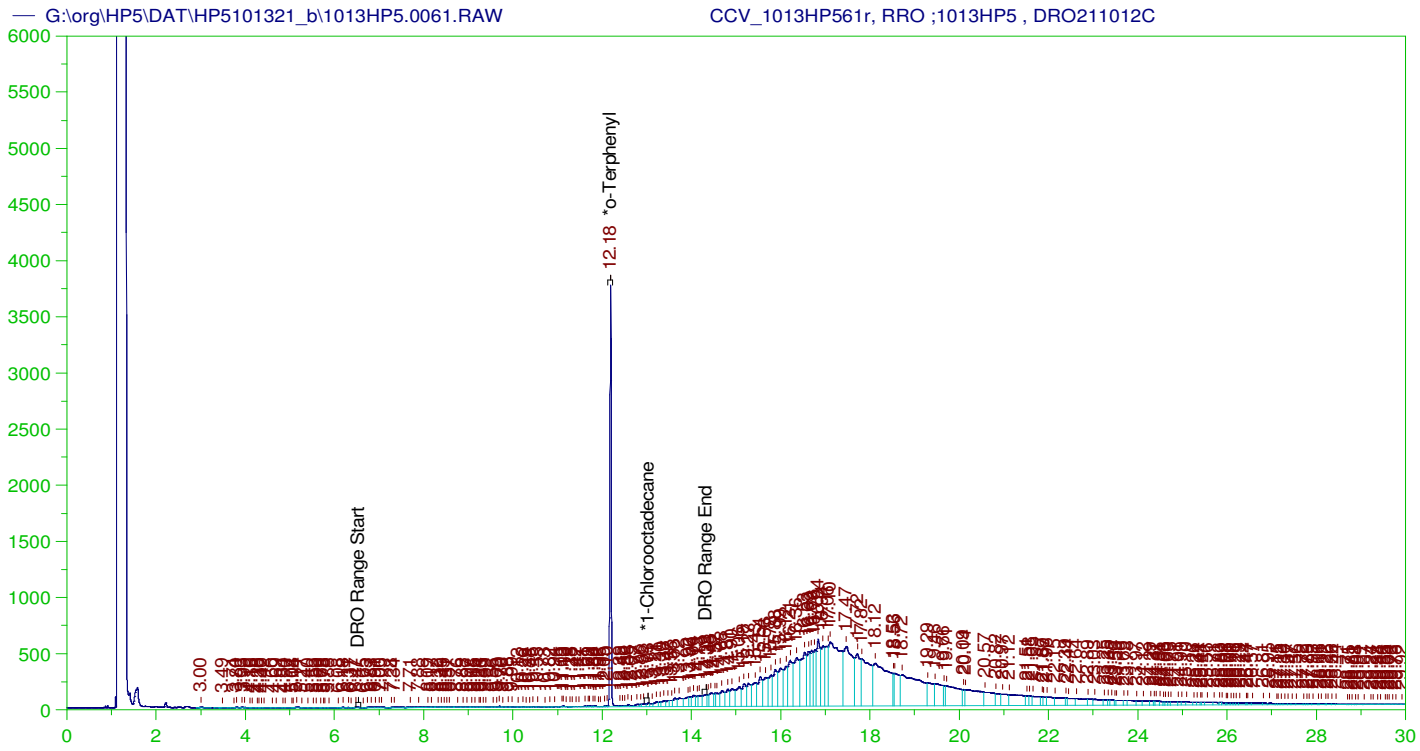
Sample Name: MARKER_1013HP560r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0060.RAW
Date & Time Acquired: 10/15/2021 8:22:35 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | .2 | .213 | 106.66 | - |
| *1-Chlorooctadecane | 12.994 | .2 | .173 | 86.32 | - |

DRO Area:7.335226E+07 DRO Amount: 2.490119
TEH Area:1.193338E+08 TEH Amount: 4.051072

G:\org\HP5\dat\HP5101321_b\Review\060_MARKER_1013HP560r_DC_8015-24-HSa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP561r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW
Date & Time Acquired: 10/15/2021 9:05:31 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 211.955 | 105.98 | - |
| *1-Chlorooctadecane | 13.03 | 200. | 4.09 | 2.04 | - |

DRO Area:6599021 DRO Amount: 231.2005
TEH (Oil Range) Area:1.351175E+08 TEH (Oil Range) Amount: 4733.919

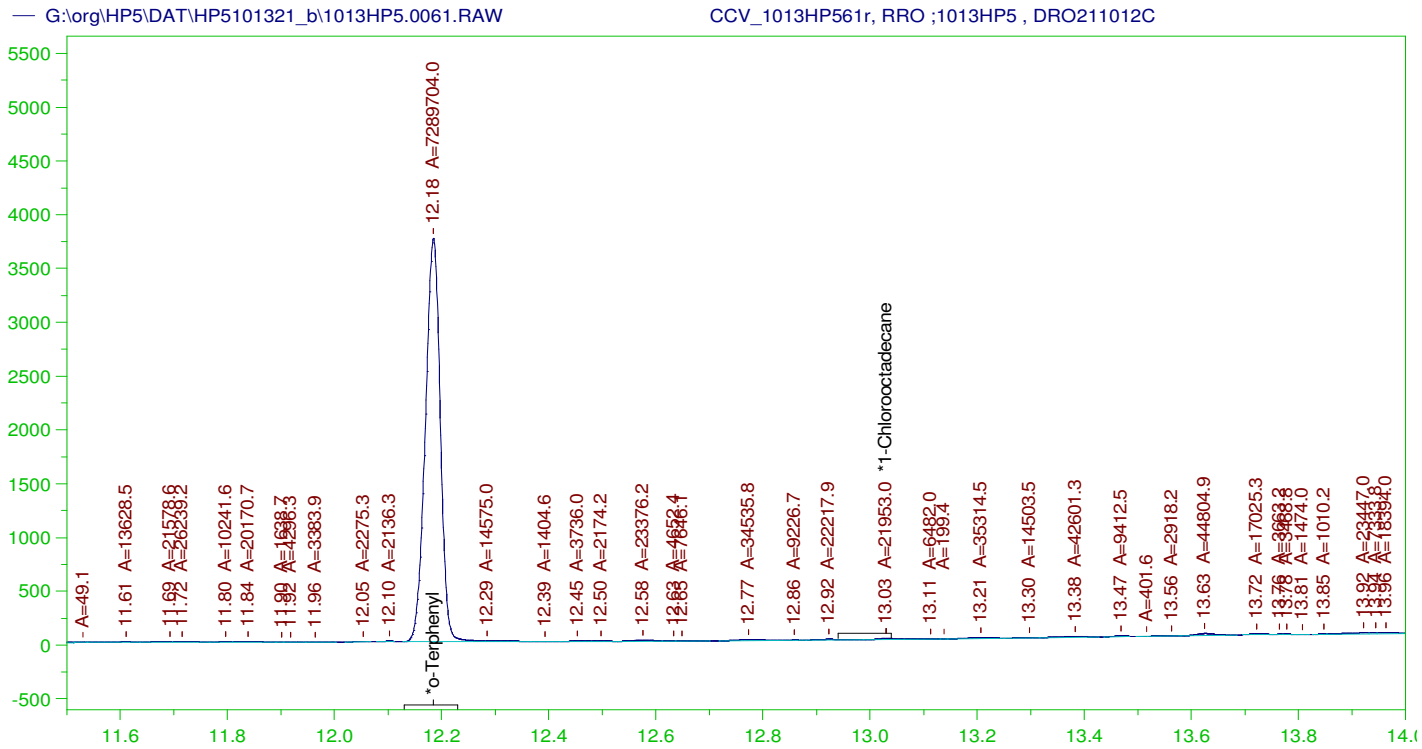
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4733.92 | 94.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 211.955 | 105.98 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | 4.09 | 2.04 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\061_CCV_1013HP561r_DC_OIL-AJA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP561r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW
Date & Time Acquired: 10/15/2021 9:05:31 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 207.854 | 103.93 | - |
| *1-Chlorooctadecane | 13.03 | 200. | .626 | .31 | - |

DRO Area:858181.1 DRO Amount: 30.06687
TEH Area:2203351 TEH Amount: 77.19567

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 77.2 | 1.54 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 207.854 | 103.93 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | .626 | .31 | 85-115 |

Write Sequence

Insert Entries|Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101321_b\1013HP5.01r | MARKER_1013HP01r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.02r | MARKER_1013HP502r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.03r | CCV_1013HP503r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.04r | CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.06r | B21100828-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-101306-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-101306-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Set Baseline now at 22.46.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.07r | B21100828-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.08r | B21100834-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1010 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.09r | DCM-Baseline Check-V09 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.10r | B21100834-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.11r | DCM-Baseline Check-V11 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.12r | B21100834-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.15r | B21100827-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.16r | DCM-Baseline Check-V16 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.17r | MARKER_1013HP17r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.18r | MARKER_1013HP518r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.19r | CCV_1013HP519r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.20r | CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.21r | DCM-Baseline Check-V21 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.22r | LCS-RRO-160213 ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.24r | B21100827-002AMS-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.25r | DCM-Baseline Check-V25 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.26r | B21100827-002AMSD-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.28r | B21100827-001AMS ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101328-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.10.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.30r | B21100827-001AMSD ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101330-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.10.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.32r | MARKER_1013HP32r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.33r | MARKER_1013HP533r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.34r | CCV_1013HP534r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101321_b\1013HP5.35r | CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.36r | DCM-Baseline Check-V36 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.37r | DCM-Baseline Check-V37 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.38r | MARKER_1013HP38r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.39r | MARKER_1013HP539r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.40r | CCV_1013HP540r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.41r | CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.42r | DCM-Baseline Check-V42 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.43r | LCS-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.44r | MB-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.45r | B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.46r | B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1045 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.47r | B21100827-001AMS ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.48r | B21100827-001AMSD ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.49r | B21100827-002AMS-RRO ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.50r | DCM-Baseline Check-V50 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.51r | B21100827-002AMSD-RRO ;1013HP5 , SGT-NEEDS RR Instrument misinjection | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 515 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.52r | DCM-Baseline Check-V52 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.53r | LCS-RRO-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.54r | MARKER_1013HP54r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.55r | MARKER_1013HP555r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.56r | CCV_1013HP556r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.57r | CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.58r | DCM-Baseline Check-V58 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.59r | B21100827-002AMSD-RRO ;1013HP5 , SGT-RR | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.60r | MARKER_1013HP560r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.61r | CCV_1013HP561r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.21 09:01:45 -06:00

# ANALYTICAL SUMMARY REPORT

November 09, 2021

AECOM - Honolulu
1001 Bishop Street, Suite 1600
Honolulu HI, 96813-3698

Work Order: B21100828 Quote ID: 5912

Project Name: CV18F0126/60571032.02.20.01

Energy Laboratories Inc Billings MT received the following 2 samples from AECOM - Honolulu on 10/11/2021 for analysis.

| Lab ID | Client Sample ID | Collect Date | Received Date | Matrix | Test |
|---|---|---|---|---|---|
| B21100828-001 | ERH1780 (RHSF pre-chlorination) | 10/05/21 12:40 | 10/11/2021 | Drinking Water | DRO-Liquid-Liquid Extraction SW3520C<br>Diesel Range Organics SW8015C |
| B21100828-002 | ERH1781 (RHSF pre-chlorination) | 10/05/21 12:40 | 10/11/2021 | Drinking Water | Same As Above |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

**CLIENT:** AECOM - Honolulu
**Project:** CV18F0126/60571032.02.20.01
**Work Order:** B21100828

**Revised Date:** 11/9/2021
**Report Date:** 11/2/2021

# CASE NARRATIVE

Revised Date: 11/09/2021

On 11/05/2021 an email was received from Alethea Ramos at AECOM requesting the laboratory to revise this work order to report all J flagged detected values above the detection limit for EPA Method 8015C range analytes. The report has been revised and replaces the previously issued report dated 11/02/2021 in its entirety.

General Comments:

For any question please contact your Project Manager at (406) 252-6325 or billingspm@energylab.com.

All analyses have been performed in accordance with DOD QSM Version 5.3 unless otherwise noted below. The specific methodologies used in obtaining the enclosed analytical results are indicated on the Analytical Summary Report and the Laboratory Analytical Report. The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted in the Work Order Receipt Checklist.

The tests listed below are accredited and meet the requirements of DoD QSM Version 5.3 as verified by ANSI-ASQ National Accreditation Board (ANAB) certificate number ADE-2588. Exceptions to this require client authorization and records documenting this approval are attached in the Sample Management Records. Accreditation may not be offered or required for all methods and analytes reported in this package. Refer to the certificate and scope of accreditation located at https://www.energylab.com/whyus/certifications-quality-control/ or contact your project manager.

Project specific matrix quality control samples may not be reported if site specific samples were not submitted. Matrix quality control samples were performed on project samples where adequate volume was available. All quality control measures met criteria unless otherwise noted in the Analytical QC Exceptions report and in the Analysis Specific Comments below. Where available, sample management records are attached.

The Level IV Validation Package includes data reports for all analyses associated with the instrument calibration, quality control (QC) sample analysis, and sample analysis. All analytical data is within method specifications except as noted in the Analytical QC Exceptions report or the Analysis Specific Comments below. The analytical report identifies preparation batch and analytical run IDs associated with each result for a sample. Only the raw data associated with the parameters listed on this report should be validated.

Analysis Specific Comments:

An Analytical QC Exceptions Report has been attached, summarizing all qualified QC results. All quality control measures met criteria; therefore there were no analytical QC exceptions on this report.

ENERGY LABORATORIES
Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record 202110-07

DoD Samples

www.energylab.com

COC# NOI Page 1 of 1

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |

Special Report/Formats: ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 3-weeks.
4. Note "non-PO" on invoice.

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name CF, JK | Sampler Phone 808-927-3240 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1780 (RHSF pre-chlorination) | 10/05/2021 | 8:40 am | 2 | W | ✓ | ✓ | | | | | | | | | X | B21100828 |
| 2 | ERH1781 (RHSF pre-chlorination) | 10/05/2021 | 8:40 am | 2 | W | ✓ | ✓ | | | | | | | | | X | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

JN 10/5/2021

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/5/2021 15:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | | 10/11/21 9:00 | |

LABORATORY USE ONLY

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | Ori Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | °C | Y N | Y N | CC Cash Check_____ | $ | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

# Work Order Receipt Checklist

## AECOM - Honolulu

## B21100828

| | | | |
|---|---|---|---|
| Login completed by: | Leslie S. Cadreau | Date Received: | 10/11/2021 |
| Reviewed by: | BL2000\darcy | Received by: | srg |
| Reviewed Date: | 10/15/2021 | Carrier name: | FedEx |

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all sample bottles? | Yes ☑ | No ☐ | Not Present ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes ☑ | No ☐ | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Applicable ☐ |
| Container/Temp Blank temperature: | 13.7°C Melted Ice | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | Not Applicable ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | Not Applicable ☐ |

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### Contact and Corrective Action Comments:

The samples were received outside of temperature compliance. Proceed with analysis per Shari Endy, Energy Laboratories Project Manager.

The collection time indicated on the Chain of Custody for all samples is in Hawaii-Aleutian Standard Time. The collection time has been converted (+4 Hours) to Mountain Daylight Time.

All samples were received in client provided containers using client provided preservative. Energy Laboratories sample preservation traceability is not available.

# Qualifiers and Abbreviations

| Qualifier | Qualifier Description |
|---|---|
| ## | Limit of Quantitation (LOQ) for this analyte exceeds the Maximum Contaminant Level (MCL) |
| * | Result exceeds the Maximum Contaminant Level (MCL) |
| A | The analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated |
| B | Analyte detected in the method blank |
| C | Continuing calibration verification was outside of the quality control advisory limits |
| D | Limit of Quantitation (LOQ) increased due to sample matrix |
| E | Estimated value - result exceeds the instrument upper quantitation limit |
| H | Analysis performed past the method holding time |
| J | The reported result is an estimated value |
| L | Lowest Limit of Quantitation (LOQ) available for the analytical method used |
| N | Analyte concentration was not sufficiently high to calculate a Relative Percent Difference (RPD) for the serial dilution test |
| O | Diluted out |
| P | Poor method performance - method validations have shown no recoveries at low concentrations or method performance was erratic |
| Q | Values reported below the Limit of Quantitation (LOQ) are statistically invalid |
| R | Relative Percent Difference (RPD) exceeds advisory limit |
| S | Spike recovery outside of advisory limits |
| T | Analyte detected in the associated trip blank |
| U | Not detected at the Limit of Detection (LOD) |
| V | The RPD value for this duplicate represents the RER value and the RPDLimit of 2 is the RER upper limit. |

# Qualifiers and Abbreviations

## Abbreviation

| Reporting | Explanation of Abbreviation |
|---|---|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MCL | Maximum Contaminant Level |
| MDC | Minimum Detectable Concentration |
| ND | Not detected at the Limit of Quantitaton (LOQ) |
| RBSL | Risk-Based Screening Levels |
| REC | Recovery |
| RER | Relative Error Ratio |
| RPD | Relative Percent Difference |
| SPK | Spike |

| Sample Types | Explanation of Abbreviation |
|---|---|
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification Standard |
| DUP | Sample Duplicate |
| ICSA | Interference Check Sample A |
| ICSAB | Interference Check Sample AB |
| ICV | Initial Calibration Verification Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LFB | Laboratory Fortified Blank |
| LRB | Laboratory Reagent Blank |
| MBLK | Method Blank |
| MS | Sample Matrix Spike |
| MSD | Sample Matrix Spike Duplicate |
| PDS | Post Digestion/Distillation Spike |
| QCS | Quality Control Sample |
| SD | Serial Dilution |
| SRM | Standard Reference Material |

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1780 (RHSF pre-chlorination)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21100828-001
**Collection Date:** 10/05/2021 12:40
**Date Received:** 10/11/2021
**Report Date:** 11/02/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/13/2021 17:27/amn | GCFID-HP5-B_211013B : 4 | 160213 |
| Oil Range Hydrocarbons (C24 to C40) | 0.10 | mg/L | 1 | J | 0.30 | 0.14 | 0.084 | | SW8015C | 10/13/2021 17:27/amn | GCFID-HP5-B_211013B : 4 | 160213 |
| Total Extractable Hydrocarbons | 0.13 | mg/L | 1 | J | 0.30 | 0.14 | 0.071 | | SW8015C | 10/13/2021 17:27/amn | GCFID-HP5-B_211013B : 4 | 160213 |
| Surr: o-Terphenyl | 104.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/13/2021 17:27/amn | GCFID-HP5-B_211013B : 4 | 160213 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1781 (RHSF pre-chlorination)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21100828-002
**Collection Date:** 10/05/2021 12:40
**Date Received:** 10/11/2021
**Report Date:** 11/02/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/13/2021 18:10/amn | GCFID-HP5-B_211013B : 5 | 160213 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.083 | | SW8015C | 10/13/2021 18:10/amn | GCFID-HP5-B_211013B : 5 | 160213 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.071 | | SW8015C | 10/13/2021 18:10/amn | GCFID-HP5-B_211013B : 5 | 160213 |
| Surr: o-Terphenyl | 99.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/13/2021 18:10/amn | GCFID-HP5-B_211013B : 5 | 160213 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100828 **Revised Date:** 11/09/2021
**Project:** CV18F0126/60571032.02.20.01 **Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211011B: 5 **SampType:** Method Blank **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/13/2021 04:29 **Prep Date:** 10/11/2021 11:55
**Lab ID:** MB-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 111.0 | 56 | 125 | | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

**Run ID: Run Order:** GCFID-HP5-B_211011B: 4 **SampType:** Laboratory Control Sample **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/13/2021 03:47 **Prep Date:** 10/11/2021 11:55
**Lab ID:** LCS-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 102.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 110.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 105.0 | 56 | 125 | | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 13 **SampType:** Laboratory Control Sample **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 04:52 **Prep Date:** 10/11/2021 11:55
**Lab ID:** LCS-RRO-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 93.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 102.0 | 56 | 125 | | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100828 **Revised Date:** 11/09/2021
**Project:** CV18F0126/60571032.02.20.01 **Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211013B: 14 **SampType:** Sample Matrix Spike **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 06:18 **Prep Date:** 10/11/2021 11:56
**Lab ID:** B21100827-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.4 | 0.58 | 9.7 | 0.44 | 92.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.26 | 0.0039 | 0.39 | 0.0 | 68.0 | 56 | 125 | | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 15 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 07:43 **Prep Date:** 10/11/2021 11:56
**Lab ID:** B21100827-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.4 | 0.58 | 9.7 | 0.44 | 93.0 | 41 | 113 | 9.4 | 0.9 | 20.0 | |
| Surr: o-Terphenyl | 0.24 | 0.0039 | 0.39 | 0.0 | 61.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 16 **SampType:** Sample Matrix Spike **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 09:08 **Prep Date:** 10/11/2021 11:55
**Lab ID:** B21100827-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.60 | 30 | 0.22 | 102.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 33 | 0.60 | 30 | 0.67 | 108.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.42 | 0.0040 | 0.40 | 0.0 | 104.0 | 56 | 125 | | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100828 **Revised Date:** 11/09/2021
**Project:** CV18F0126/60571032.02.20.01 **Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211013B: 17 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 10:34 **Prep Date:** 10/11/2021 11:55
**Lab ID:** B21100827-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.60 | 30 | 0.22 | 103.0 | 36 | 132 | 31 | 0.4 | 20.0 | |
| Total Extractable Hydrocarbons | 34 | 0.60 | 30 | 0.67 | 110.0 | 60 | 132 | 33 | 2.0 | 20.0 | |
| Surr: o-Terphenyl | 0.36 | 0.0040 | 0.40 | 0.0 | 89.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368674
**Method:** SW8015C **Analysis Date:** 10/13/2021 15:19 **Prep Date:**
**Lab ID:** CCV_1013HP503r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.9 | 0.30 | 5.0 | | 98.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 113.0 | 80 | 120 | | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368674
**Method:** SW8015C **Analysis Date:** 10/13/2021 16:02 **Prep Date:**
**Lab ID:** CCV_1013HP540r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 106.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 106.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 106.0 | 80 | 120 | | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100828 **Revised Date:** 11/09/2021
**Project:** CV18F0126/60571032.02.20.01 **Report Date:** 11/02/2021

**Run ID: Run Order:** GCFID-HP5-B_211013B: 11 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368674
**Method:** SW8015C **Analysis Date:** 10/14/2021 02:44 **Prep Date:**
**Lab ID:** CCV_1013HP519r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 95.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 111.0 | 80 | 120 | | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 12 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368674
**Method:** SW8015C **Analysis Date:** 10/14/2021 03:27 **Prep Date:**
**Lab ID:** CCV_1013HP520r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 109.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 109.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 110.0 | 80 | 120 | | | | |

Associated Samples: **B21100828-001A, B21100828-002A**

# Analytical QC Exceptions Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100828
**Project:** CV18F0126/60571032.02.20.01

**Revised Date:** 11/09/2021
**Report Date:** 11/02/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.

# Preparation and Analysis Dates Report

**Work Order:** B21100828
**Client:** AECOM - Honolulu
**Project Name:** CV18F0126/60571032.02.20.01

**Date Revised:** 11/09/2021
**Report Date:** 11/02/2021

| Lab ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Method | Prep Date | Prep Batch | Analysis Method | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | ERH1780 (RHSF pre-chlorination) | 10/05/2021 12:40 | Drinking Water | Diesel Range Organics | | SW3520C | 10/11/2021 12:41 | 160213 | SW8015C | 10/13/2021 17:27 |
| 002A | ERH1781 (RHSF pre-chlorination) | 10/05/2021 12:40 | Drinking Water | Diesel Range Organics | | SW3520C | 10/11/2021 12:41 | 160213 | SW8015C | 10/13/2021 18:10 |

# Chemical Abstracts Service (CAS) Registry Numbers

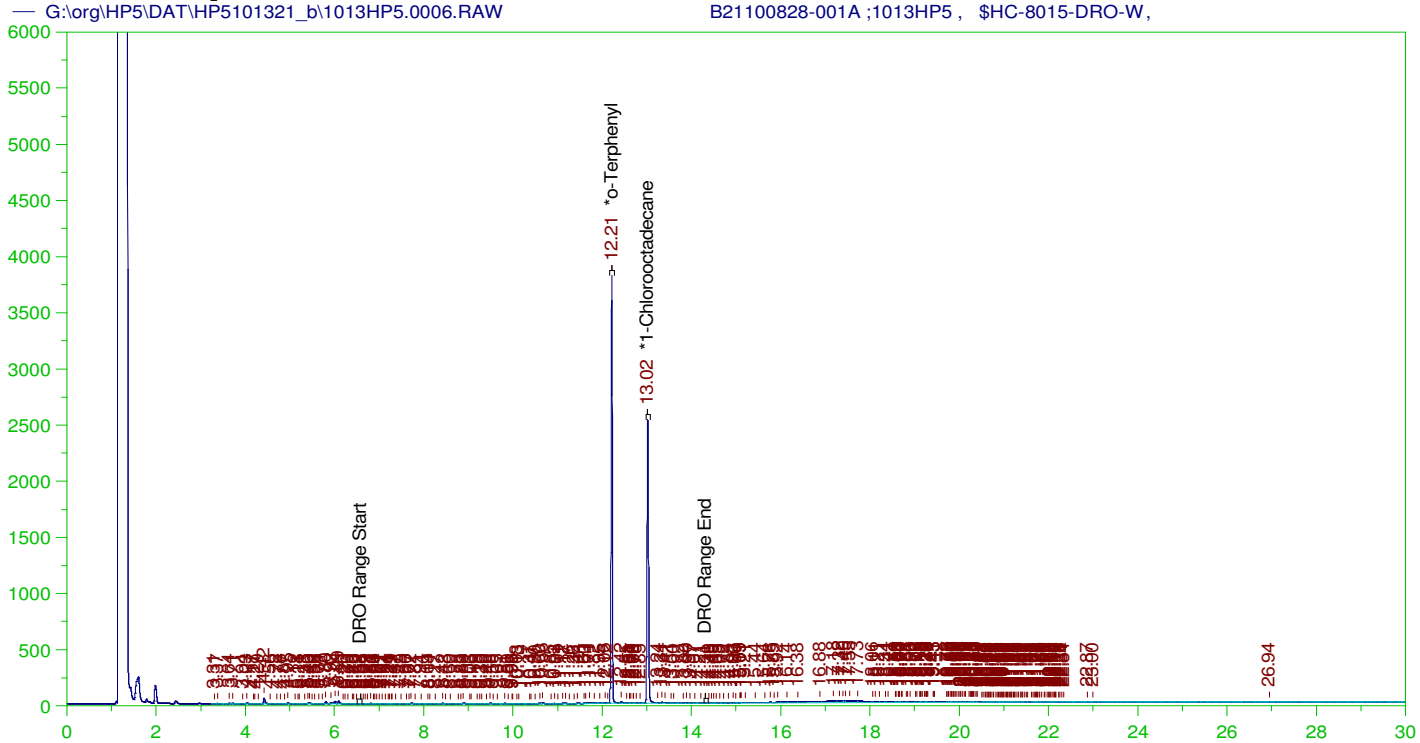
Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100828 **Revised Date:** 11/09/2021
**Project:** CV18F0126/60571032.02.20.01 **Report Date:** 11/02/2021

| Analyses | CAS No |
|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | |
| Diesel Range Organics (C10 to C24) | |
| Oil Range Hydrocarbons (C24 to C40) | |
| Total Extractable Hydrocarbons | |

**ERH1780 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW B21100828-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DR_8015-101306-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

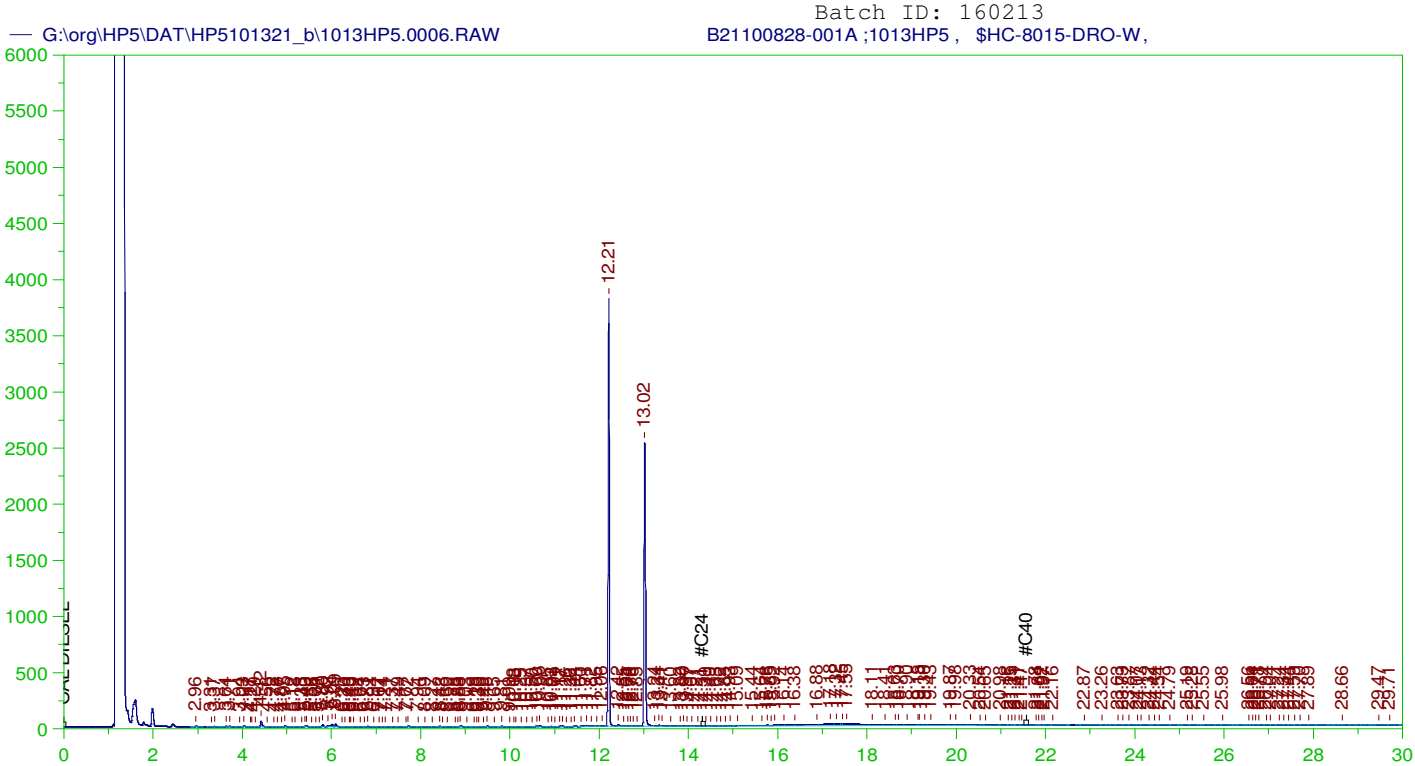
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.21 | .19 | .199 | 104.36 | - |
| *1-Chlorooctadecane | 13.019 | .19 | .151 | 79.49 | - |

DRO (C10-C24)Area:450173.7 DRO (C10-C24)Amount: 0.0145545
TEH Area:4137389 TEH Amount: 0.1337653

AMN 10/14/2021

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DR_OIL-101306-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.28 to 21.62

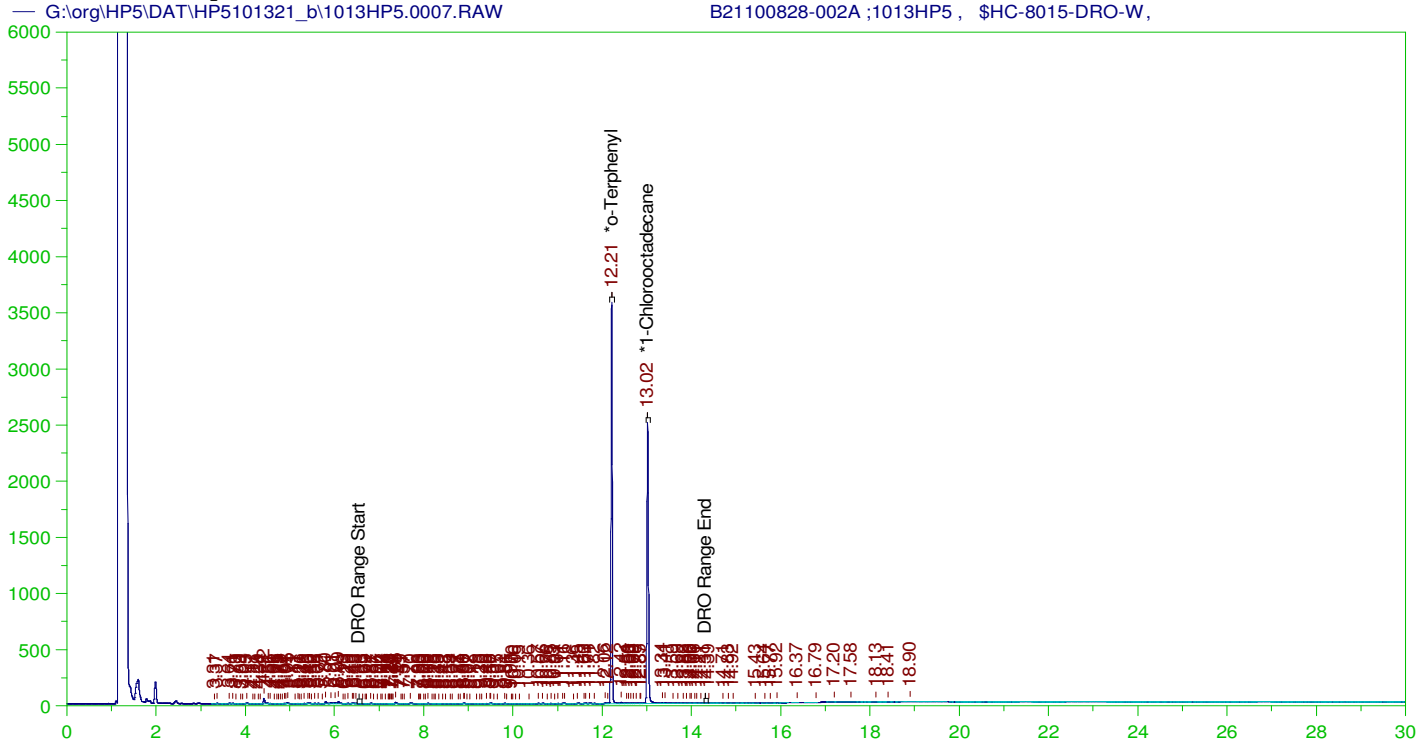
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:3114642 ~~RRO~~ Oil Range(C24-C40) AMOUNT: 0.1039269

AMN 10/14/2021

**ERH1781 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW B21100828-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

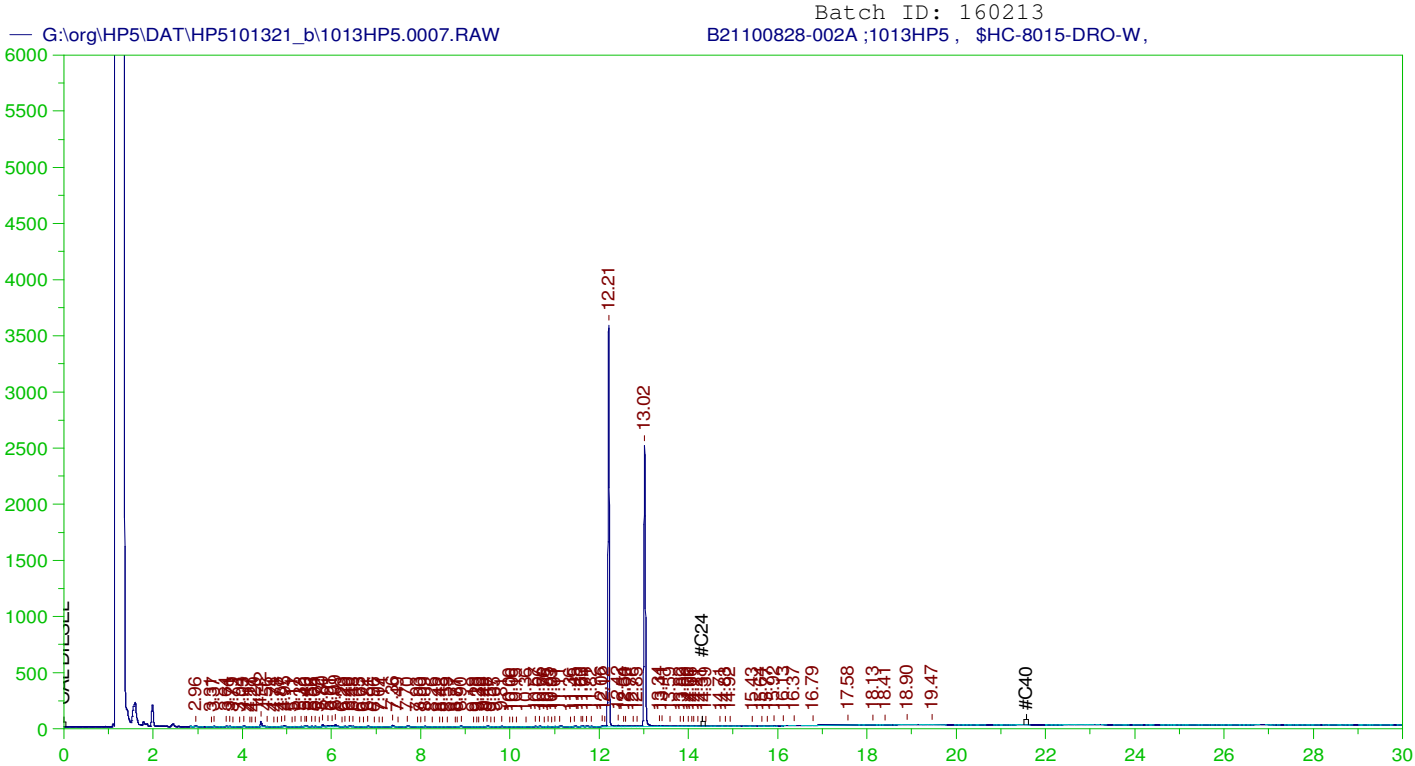
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .19 | .189 | 99.5 | - |
| *1-Chlorooctadecane | 13.017 | .19 | .151 | 79.58 | - |

DRO (C10-C24)Area:474748.8 DRO (C10-C24)Amount: 0.0152763
TEH Area:1024456 TEH Amount: 3.296458E-02

AMN 10/14/2021

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:120457.5 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 4.000284E-03

AMN 10/14/2021

**From:** Ramos, Alethea <alethea.ramos@aecom.com>
**Sent:** Friday, November 05, 2021 10:37 PM
**To:** Shari Endy
**Cc:** Pascua, Margie; Hart, Jeff
**Subject:** CV18F0126: CUI_SDGs Requiring Revisions by 11/10

CUI

Hi Shari,

The only revision needed for SDGs indicated in both "Revisions Needed by 11/10" and "Additional Revisions" list is to revise Level 2 Reports to reflect J-flagged detects above the DL. For SDG B21100834, if you could also provide the Level 4 and Level 2 report, that would be greatly appreciated. In "GOOD NO REVISIONS NEEDED" list, those reports are complete. Revised Level 2 reports for SDGs listed under the "Revisions Needed By 11/10" list will be provided to Navy in the RRR Quarterly Report that is due on 11/10 to go through internal review. It was good talking to you and the Energy team today!

**Revisions/Reports Needed By 11/10**
B21092272
B21100125
B21100166
B21100828
B21100834 (missing L4)
B21100806

**Additional Revisions**
B21101306
B21101919

**GOOD NO REVISIONS NEEDED**
B21092273
B21092370
B21100022
B21092660
B21100147
B21100126
B21100171
B21100756
B21100824
B21100827

Have a good weekend,

**Alethea Ramos, CIH**
Environmental Scientist, Environmental Health & Science, Environment
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CUI

# ANALYTICAL SUMMARY REPORT

November 09, 2021

AECOM - Honolulu
1001 Bishop Street, Suite 1600
Honolulu HI, 96813-3698

Work Order: B21100834 Quote ID: 5912

Project Name: CV18F0126/60571032.02.20.01

Energy Laboratories Inc Billings MT received the following 3 samples from AECOM - Honolulu on 10/11/2021 for analysis.

| Lab ID | Client Sample ID | Collect Date | Received Date | Matrix | Test |
|---|---|---|---|---|---|
| B21100834-001 | ERH1771 (RHMW14-03) | 10/05/21 15:40 | 10/11/2021 | Ground Water | DRO-Liquid-Liquid Extraction SW3520C<br>Diesel Range Organics SW8015C |
| B21100834-002 | ERH1773 (Field Blank) | 10/05/21 13:10 | 10/11/2021 | Aqueous | Same As Above |
| B21100834-003 | ERH1774 (Equipment Blank) | 10/05/21 13:05 | 10/11/2021 | Aqueous | Same As Above |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

**CLIENT:** AECOM - Honolulu
**Project:** CV18F0126/60571032.02.20.01
**Work Order:** B21100834

**Report Date:** 11/9/2021

# CASE NARRATIVE

General Comments:

For any question please contact your Project Manager at (406) 252-6325 or billingspm@energylab.com.

All analyses have been performed in accordance with DOD QSM Version 5.3 unless otherwise noted below. The specific methodologies used in obtaining the enclosed analytical results are indicated on the Analytical Summary Report and the Laboratory Analytical Report. The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted in the Work Order Receipt Checklist.

The tests listed below are accredited and meet the requirements of DoD QSM Version 5.3 as verified by ANSI-ASQ National Accreditation Board (ANAB) certificate number ADE-2588. Exceptions to this require client authorization and records documenting this approval are attached in the Sample Management Records. Accreditation may not be offered or required for all methods and analytes reported in this package. Refer to the certificate and scope of accreditation located at https://www.energylab.com/whyus/certifications-quality-control/ or contact your project manager.

Project specific matrix quality control samples may not be reported if site specific samples were not submitted. Matrix quality control samples were performed on project samples where adequate volume was available. All quality control measures met criteria unless otherwise noted in the Analytical QC Exceptions report and in the Analysis Specific Comments below. Where available, sample management records are attached.

The Level IV Validation Package includes data reports for all analyses associated with the instrument calibration, quality control (QC) sample analysis, and sample analysis. All analytical data is within method specifications except as noted in the Analytical QC Exceptions report or the Analysis Specific Comments below. The analytical report identifies preparation batch and analytical run IDs associated with each result for a sample. Only the raw data associated with the parameters listed on this report should be validated.

Analysis Specific Comments:

An Analytical QC Exceptions Report has been attached, summarizing all qualified QC results. All quality control measures met criteria; therefore there were no analytical QC exceptions on this report.

ENERGY LABORATORIES
Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record 202110-08

DoD Samples

www.energylab.com

COC# NOI Page 1 of 1

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |

Special Report/Formats: ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 3-weeks.
4. Note "non-PO" on invoice.

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name BL, AD, MY, CS | Sampler Phone 808-364-8052 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1771 (RHMW14-03) | 10/05/2021 | 11:40 am | 2 | W | ✓ | ✓ | | | | | | | | | X | ~~B21100834~~ 7-C |
| 2 | ERH1773 (Field Blank) | 10/05/2021 | 9:10 am | 2 | W | ✓ | ✓ | | | | | | | | | X | B21100834 10/11/21 |
| 3 | ERH1774 (Equipment Blank) | 10/05/2021 | 9:05 am | 2 | W | ✓ | ✓ | | | | | | | | | X | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

JR 10/5/2021

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/5/2021 15:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | Sara Gottlieb | 10/11/21 9:00 | |

LABORATORY USE ONLY

| Shipped By | Cooler ID(s) | Custody Seals Y N C B | Intact Y N | Receipt Temp °C | Temp Blank Y N | On Ice Y N | Payment Type CC Cash Check | Amount $ | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

# Work Order Receipt Checklist

## AECOM - Honolulu

## B21100834

| | | | |
|---|---|---|---|
| Login completed by: | Leslie S. Cadreau | Date Received: | 10/11/2021 |
| Reviewed by: | BL2000\darcy | Received by: | srg |
| Reviewed Date: | 10/15/2021 | Carrier name: | FedEx |

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all sample bottles? | Yes ☑ | No ☐ | Not Present ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes ☑ | No ☐ | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Applicable ☐ |
| Container/Temp Blank temperature: | 12.0°C Melted Ice | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | Not Applicable ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | Not Applicable ☐ |

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### Contact and Corrective Action Comments:

The samples were received outside of temperature compliance. Proceed with analysis per Shari Endy, Energy Laboratories Project Manager.

The collection time indicated on the Chain of Custody for all samples is in Hawaii-Aleutian Standard Time. The collection time has been converted (+4 Hours) to Mountain Daylight Time.

All samples were received in client provided containers using client provided preservative. Energy Laboratories sample preservation traceability is not available.

The matrix for ERH1771 (RHMW14-03) has been changed to Ground Water per email request from Alethea Ramos on 11/04/2021.

# Qualifiers and Abbreviations

| Qualifier | Qualifier Description |
|---|---|
| ## | Limit of Quantitation (LOQ) for this analyte exceeds the Maximum Contaminant Level (MCL) |
| * | Result exceeds the Maximum Contaminant Level (MCL) |
| A | The analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated |
| B | Analyte detected in the method blank |
| C | Continuing calibration verification was outside of the quality control advisory limits |
| D | Limit of Quantitation (LOQ) increased due to sample matrix |
| E | Estimated value - result exceeds the instrument upper quantitation limit |
| H | Analysis performed past the method holding time |
| J | The reported result is an estimated value |
| L | Lowest Limit of Quantitation (LOQ) available for the analytical method used |
| N | Analyte concentration was not sufficiently high to calculate a Relative Percent Difference (RPD) for the serial dilution test |
| O | Diluted out |
| P | Poor method performance - method validations have shown no recoveries at low concentrations or method performance was erratic |
| Q | Values reported below the Limit of Quantitation (LOQ) are statistically invalid |
| R | Relative Percent Difference (RPD) exceeds advisory limit |
| S | Spike recovery outside of advisory limits |
| T | Analyte detected in the associated trip blank |
| U | Not detected at the Limit of Detection (LOD) |
| V | The RPD value for this duplicate represents the RER value and the RPDLimit of 2 is the RER upper limit. |

# Qualifiers and Abbreviations

## Abbreviation

| Reporting | Explanation of Abbreviation |
|---|---|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MCL | Maximum Contaminant Level |
| MDC | Minimum Detectable Concentration |
| ND | Not detected at the Limit of Quantitaton (LOQ) |
| RBSL | Risk-Based Screening Levels |
| REC | Recovery |
| RER | Relative Error Ratio |
| RPD | Relative Percent Difference |
| SPK | Spike |

| Sample Types | Explanation of Abbreviation |
|---|---|
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification Standard |
| DUP | Sample Duplicate |
| ICSA | Interference Check Sample A |
| ICSAB | Interference Check Sample AB |
| ICV | Initial Calibration Verification Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LFB | Laboratory Fortified Blank |
| LRB | Laboratory Reagent Blank |
| MBLK | Method Blank |
| MS | Sample Matrix Spike |
| MSD | Sample Matrix Spike Duplicate |
| PDS | Post Digestion/Distillation Spike |
| QCS | Quality Control Sample |
| SD | Serial Dilution |
| SRM | Standard Reference Material |

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1771 (RHMW14-03)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21100834-001
**Collection Date:** 10/05/2021 15:40
**Date Received:** 10/11/2021
**Report Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.039 | | SW8015C | 10/13/2021 18:53/amn | GCFID-HP5-B_211013B : 6 | 160213 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.087 | | SW8015C | 10/13/2021 18:53/amn | GCFID-HP5-B_211013B : 6 | 160213 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.074 | | SW8015C | 10/13/2021 18:53/amn | GCFID-HP5-B_211013B : 6 | 160213 |
| Surr: o-Terphenyl | 92.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/13/2021 18:53/amn | GCFID-HP5-B_211013B : 6 | 160213 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1773 (Field Blank)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Aqueous

**Lab ID:** B21100834-002
**Collection Date:** 10/05/2021 13:10
**Date Received:** 10/11/2021
**Report Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/13/2021 20:19/amn | GCFID-HP5-B_211013B : 7 | 160213 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.084 | | SW8015C | 10/13/2021 20:19/amn | GCFID-HP5-B_211013B : 7 | 160213 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.071 | | SW8015C | 10/13/2021 20:19/amn | GCFID-HP5-B_211013B : 7 | 160213 |
| Surr: o-Terphenyl | 99.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/13/2021 20:19/amn | GCFID-HP5-B_211013B : 7 | 160213 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1774 (Equipment Blank)
**Project:** CV18F0126/60571032.02.20.01
**Matrix:** Aqueous

**Lab ID:** B21100834-003
**Collection Date:** 10/05/2021 13:05
**Date Received:** 10/11/2021
**Report Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/13/2021 21:45/amn | GCFID-HP5-B_211013B : 8 | 160213 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.085 | | SW8015C | 10/13/2021 21:45/amn | GCFID-HP5-B_211013B : 8 | 160213 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.072 | | SW8015C | 10/13/2021 21:45/amn | GCFID-HP5-B_211013B : 8 | 160213 |
| Surr: o-Terphenyl | 103.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/13/2021 21:45/amn | GCFID-HP5-B_211013B : 8 | 160213 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100834
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211011B: 5 **SampType:** Method Blank **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/13/2021 04:29 **Prep Date:** 10/11/2021 11:55
**Lab ID:** MB-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 111.0 | 56 | 125 | | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

**Run ID: Run Order:** GCFID-HP5-B_211011B: 4 **SampType:** Laboratory Control Sample **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/13/2021 03:47 **Prep Date:** 10/11/2021 11:55
**Lab ID:** LCS-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 102.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 110.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 105.0 | 56 | 125 | | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 13 **SampType:** Laboratory Control Sample **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 04:52 **Prep Date:** 10/11/2021 11:55
**Lab ID:** LCS-RRO-160213 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 93.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 102.0 | 56 | 125 | | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100834
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211013B: 14 **SampType:** Sample Matrix Spike **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 06:18 **Prep Date:** 10/11/2021 11:56
**Lab ID:** B21100827-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.4 | 0.58 | 9.7 | 0.44 | 92.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.26 | 0.0039 | 0.39 | 0.0 | 68.0 | 56 | 125 | | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 15 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 07:43 **Prep Date:** 10/11/2021 11:56
**Lab ID:** B21100827-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.4 | 0.58 | 9.7 | 0.44 | 93.0 | 41 | 113 | 9.4 | 0.9 | 20.0 | |
| Surr: o-Terphenyl | 0.24 | 0.0039 | 0.39 | 0.0 | 61.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 16 **SampType:** Sample Matrix Spike **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 09:08 **Prep Date:** 10/11/2021 11:55
**Lab ID:** B21100827-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.60 | 30 | 0.22 | 102.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 33 | 0.60 | 30 | 0.67 | 108.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.42 | 0.0040 | 0.40 | 0.0 | 104.0 | 56 | 125 | | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100834
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211013B: 17 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160213
**Method:** SW8015C **Analysis Date:** 10/14/2021 10:34 **Prep Date:** 10/11/2021 11:55
**Lab ID:** B21100827-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 31 | 0.60 | 30 | 0.22 | 103.0 | 36 | 132 | 31 | 0.4 | 20.0 | |
| Total Extractable Hydrocarbons | 34 | 0.60 | 30 | 0.67 | 110.0 | 60 | 132 | 33 | 2.0 | 20.0 | |
| Surr: o-Terphenyl | 0.36 | 0.0040 | 0.40 | 0.0 | 89.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368674
**Method:** SW8015C **Analysis Date:** 10/13/2021 15:19 **Prep Date:**
**Lab ID:** CCV_1013HP503r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.9 | 0.30 | 5.0 | | 98.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 113.0 | 80 | 120 | | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R368674
**Method:** SW8015C **Analysis Date:** 10/13/2021 16:02 **Prep Date:**
**Lab ID:** CCV_1013HP540r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 106.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 106.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 106.0 | 80 | 120 | | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100834
**Project:** CV18F0126/60571032.02.20.01
**Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211013B: 11
**SampType:** Continuing Calibration Verification Standard
**Batch ID:** R368674
**Method:** SW8015C
**Analysis Date:** 10/14/2021 02:44
**Prep Date:**
**Lab ID:** CCV_1013HP519r
**Units:** mg/L
**Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 95.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 111.0 | 80 | 120 | | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

**Run ID: Run Order:** GCFID-HP5-B_211013B: 12
**SampType:** Continuing Calibration Verification Standard
**Batch ID:** R368674
**Method:** SW8015C
**Analysis Date:** 10/14/2021 03:27
**Prep Date:**
**Lab ID:** CCV_1013HP520r
**Units:** mg/L
**Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 109.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 109.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 110.0 | 80 | 120 | | | | |

Associated Samples: **B21100834-001A, B21100834-002A, B21100834-003A**

# Analytical QC Exceptions Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21100834
**Project:** CV18F0126/60571032.02.20.01

**Report Date:** 11/09/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.

# Preparation and Analysis Dates Report

**Work Order:** B21100834
**Client:** AECOM - Honolulu
**Project Name:** CV18F0126/60571032.02.20.01
**Report Date:** 11/09/2021

| Lab ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Method | Prep Date | Prep Batch | Analysis Method | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | ERH1771 (RHMW14-03) | 10/05/2021 15:40 | Ground Water | Diesel Range Organics | | SW3520C | 10/11/2021 15:26 | 160213 | SW8015C | 10/13/2021 18:53 |
| 002A | ERH1773 (Field Blank) | 10/05/2021 13:10 | Aqueous | Diesel Range Organics | | SW3520C | 10/11/2021 15:26 | 160213 | SW8015C | 10/13/2021 20:19 |
| 003A | ERH1774 (Equipment Blank) | 10/05/2021 13:05 | Aqueous | Diesel Range Organics | | SW3520C | 10/11/2021 15:26 | 160213 | SW8015C | 10/13/2021 21:45 |

# Chemical Abstracts Service (CAS) Registry Numbers

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu

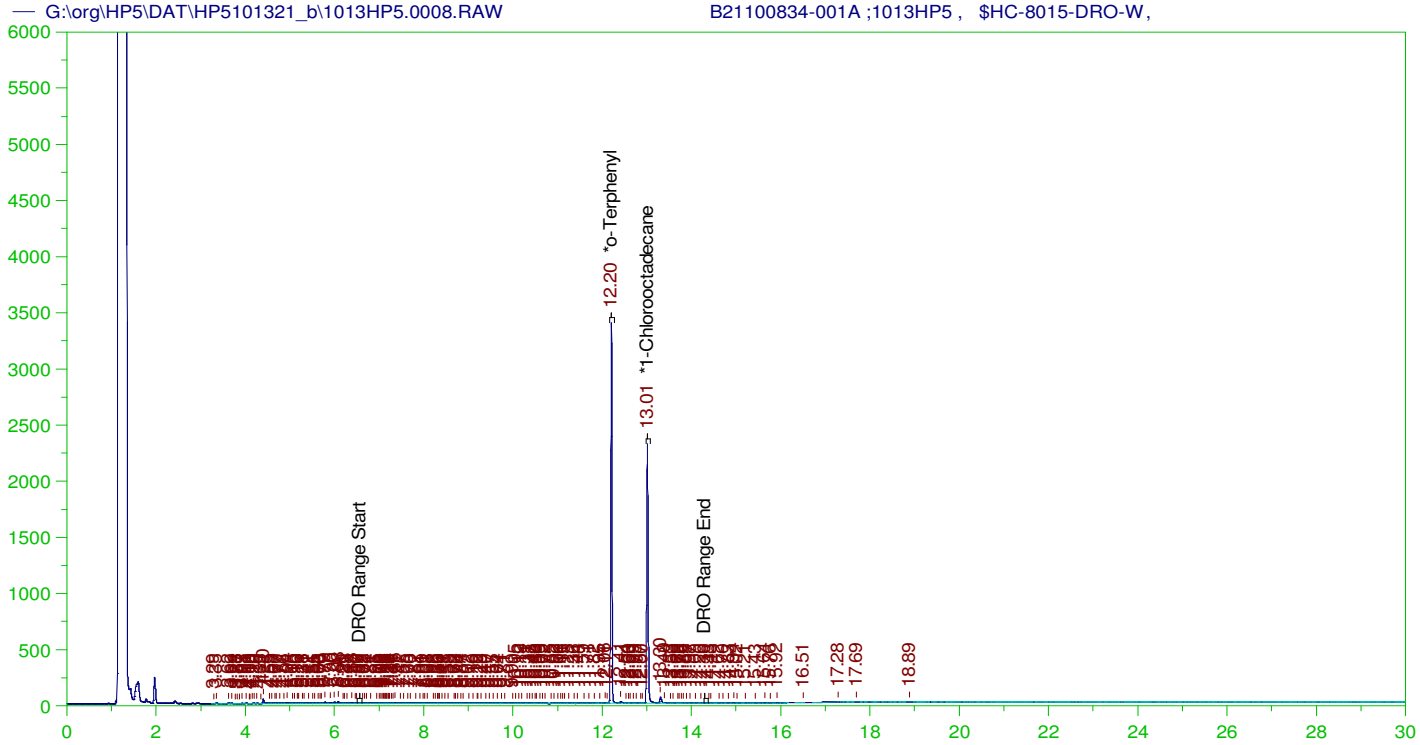
**Workorder:** B21100834

**Project:** CV18F0126/60571032.02.20.01 **Report Date:** 11/09/2021

| Analyses | CAS No |
|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | |
| Diesel Range Organics (C10 to C24) | |
| Oil Range Hydrocarbons (C24 to C40) | |
| Total Extractable Hydrocarbons | |

**ERH1771 (RHMW14-03)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW B21100834-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

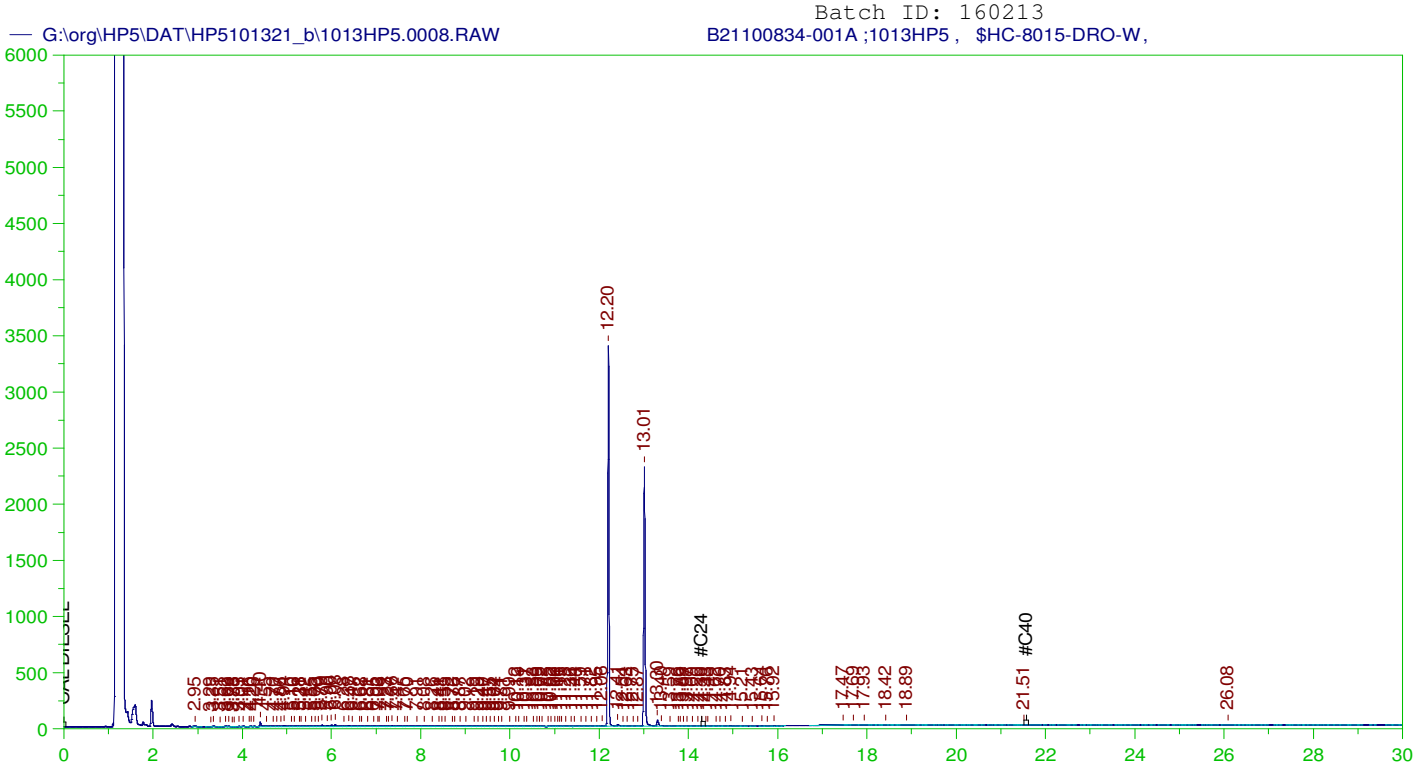
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | .198 | .183 | 92.4 | - |
| *1-Chlorooctadecane | 13.012 | .198 | .146 | 73.62 | - |

DRO (C10-C24)Area:732105.1 DRO (C10-C24)Amount: 0.024607
TEH Area:1328519 TEH Amount: 4.465324E-02

AMN 10/14/2021

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.28 to 21.62

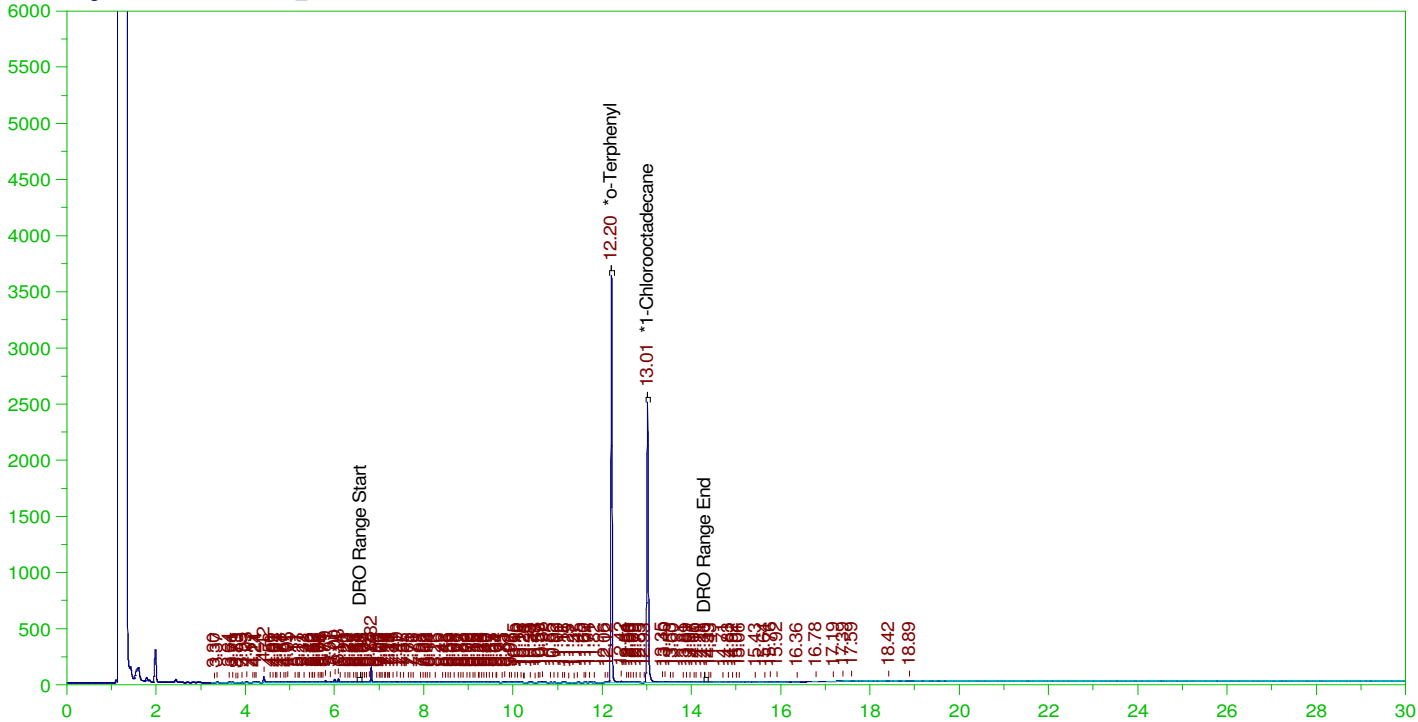
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:98411.37 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 3.413762E-03

AMN 10/14/2021

**ERH1773 (Field Blank)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW B21100834-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

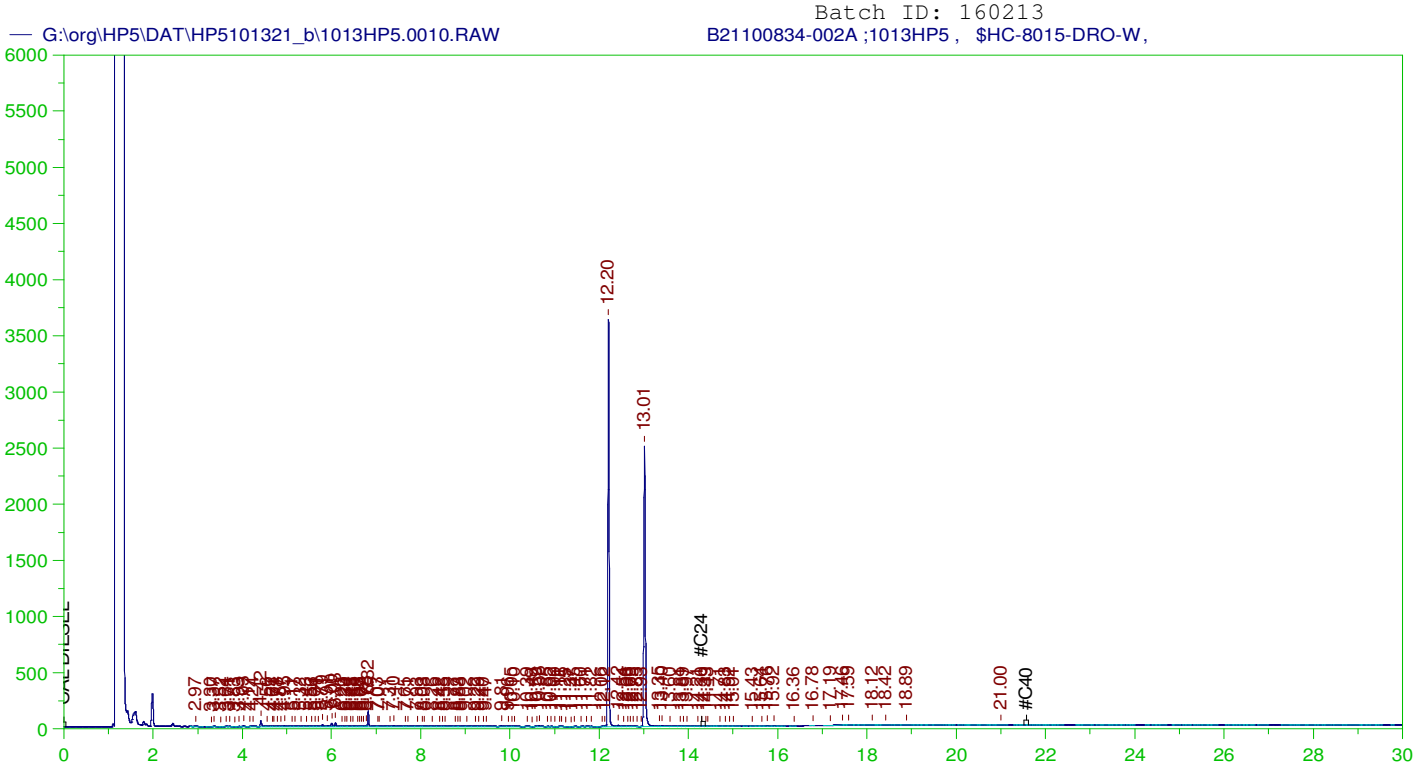
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .19 | .191 | 100.04 | - |
| *1-Chlorooctadecane | 13.014 | .19 | .154 | 80.78 | - |

DRO (C10-C24)Area:1014568 DRO (C10-C24)Amount: 3.280184E-02
TEH Area:1728863 TEH Amount: 5.589564E-02

AMN 10/14/2021

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.28 to 21.62

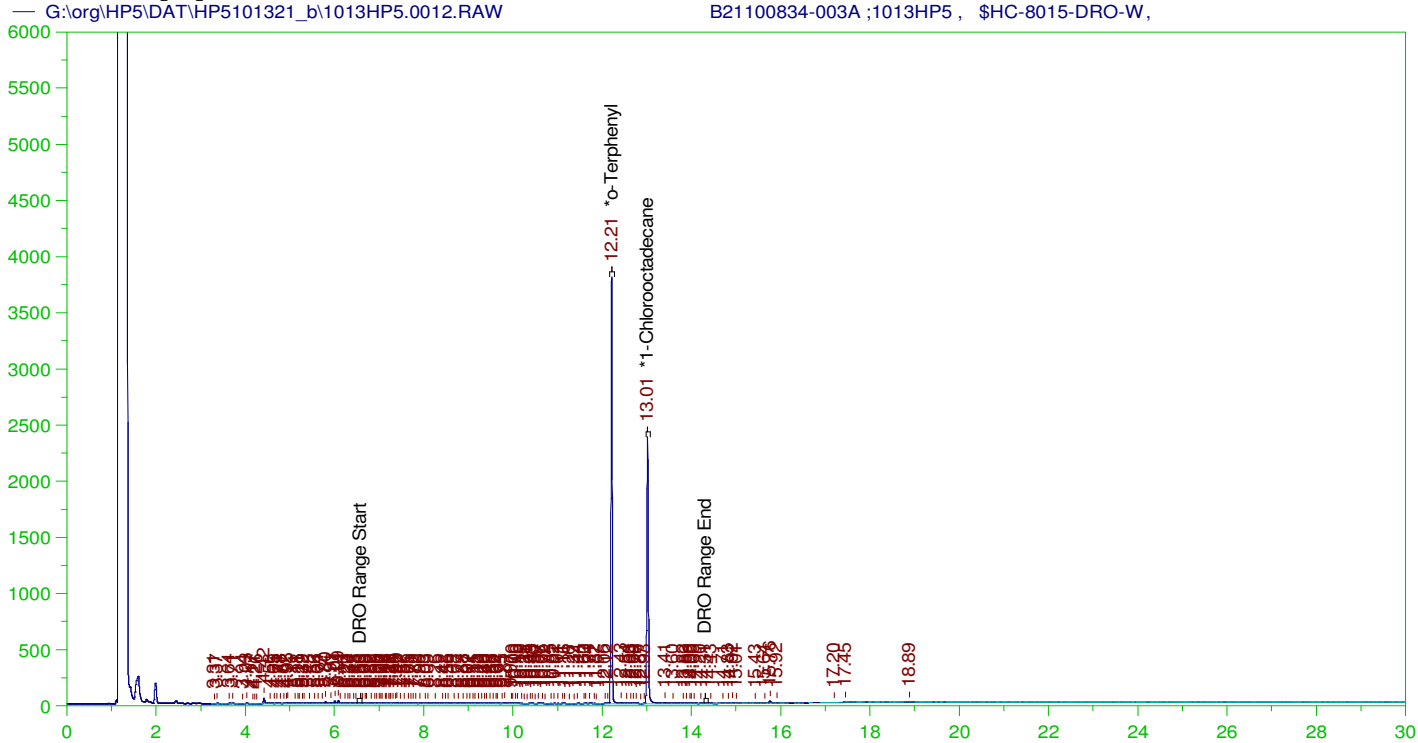
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

~~RRO~~ Oil Range (C24-C40) Area:72106.56 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 2.405996E-03

AMN 10/14/2021

**ERH1774 (Equipment Blank)** Batch ID: 160213

G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW B21100834-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

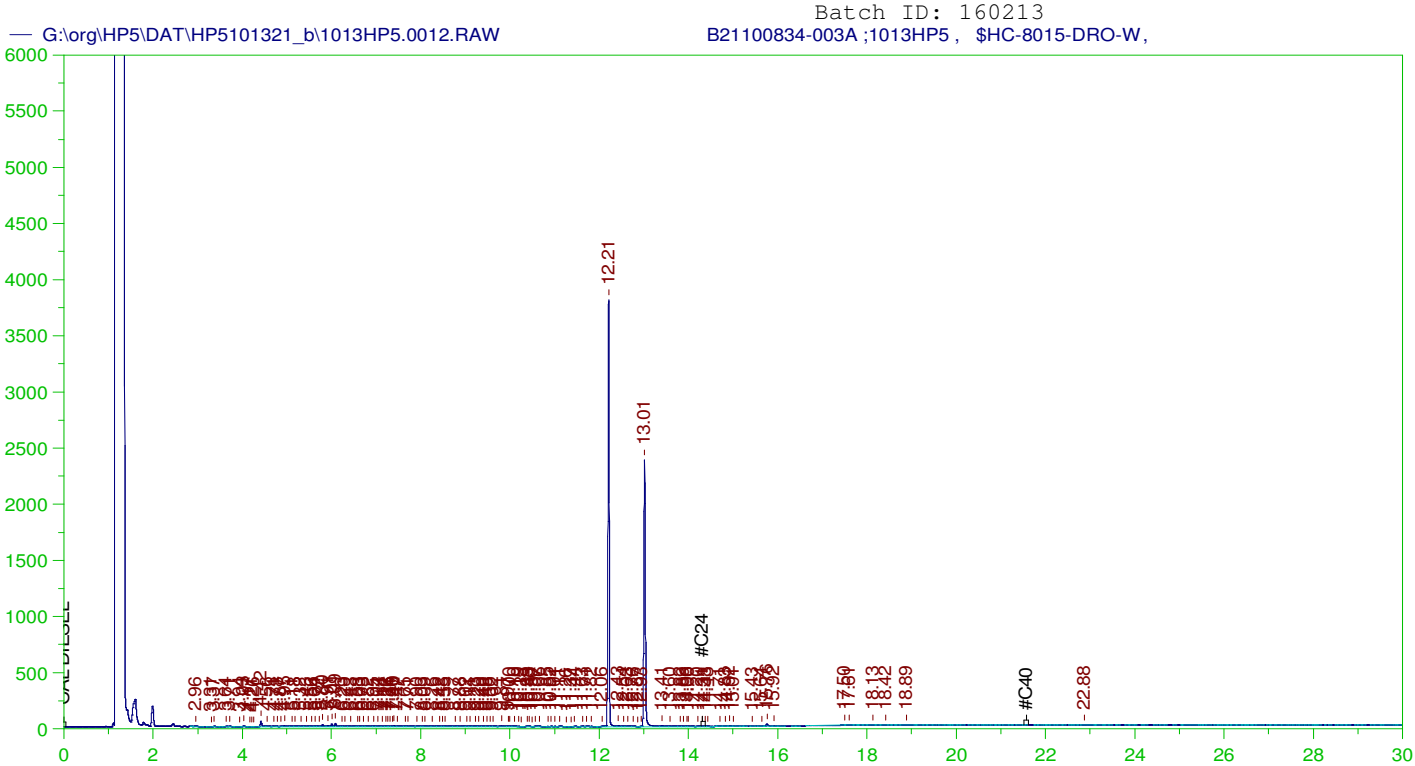
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics(C10-C24): 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .192 | .199 | 103.31 | - |
| *1-Chlorooctadecane | 13.015 | .192 | .147 | 76.59 | - |

DRO (C10-C24)Area:686756.1 DRO (C10-C24)Amount: 2.241691E-02
TEH Area:1382057 TEH Amount: 4.511274E-02

AMN 10/14/2021

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ Oil Range Organics(C24-C40) Calculations: 28542.41
Rt range for ~~Residual~~ Oil Range Organics(C24-C40) : 14.28 to 21.62

SURROGATE COMPOUND RT ACTUAL MEASURED %REC

~~RRO~~ Oil Range (C24-C40) Area:140112.2 ~~RRO~~ Oil Range (C24-C40) AMOUNT: 4.72011E-03

AMN 10/14/2021

**From:** Ramos, Alethea <alethea.ramos@aecom.com>
**Sent:** Friday, November 05, 2021 10:37 PM
**To:** Shari Endy
**Cc:** Pascua, Margie; Hart, Jeff
**Subject:** CV18F0126: CUI_SDGs Requiring Revisions by 11/10

CUI

Hi Shari,

The only revision needed for SDGs indicated in both "Revisions Needed by 11/10" and "Additional Revisions" list is to revise Level 2 Reports to reflect J-flagged detects above the DL. For SDG B21100834, if you could also provide the Level 4 and Level 2 report, that would be greatly appreciated. In "GOOD NO REVISIONS NEEDED" list, those reports are complete. Revised Level 2 reports for SDGs listed under the "Revisions Needed By 11/10" list will be provided to Navy in the RRR Quarterly Report that is due on 11/10 to go through internal review. It was good talking to you and the Energy team today!

**Revisions/Reports Needed By 11/10**
B21092272
B21100125
B21100166
B21100828
B21100834 (missing L4)
B21100806

**Additional Revisions**
B21101306
B21101919

**GOOD NO REVISIONS NEEDED**
B21092273
B21092370
B21100022
B21092660
B21100147
B21100126
B21100171
B21100756
B21100824
B21100827

Have a good weekend,

**Alethea Ramos, CIH**
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# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*07-May-21*

**Run ID** GCFID-HP5-B_210108B

**Run Start Date:** 1/8/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** NEW ICAL
SW8015C_DRO210108HA.CAL

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CALS | 12/31/2021 |
| DRO201210A | #2 Diesel in Acetone 150,000 ug/mL | | | | | SECOND S | 6/10/2021 |
| DRO210105B | EPH (4) SURR-1000 ug/mL ea. in Hexane | | | | | SURRS | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154799 | CCV_0108HP51 | HC-8015-DRO- | CAL1 | | 1/8/2021 2:21:25 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1350772 | | 0.15 | 0 | 0 | 0.0499 | 0.3 | 50 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154800 | CCV_0108HP51 | HC-8015-DRO- | CAL2 | | 1/8/2021 3:03:30 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.865478 | | 3.75 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154801 | CCV_0108HP51 | HC-8015-DRO- | CAL3 | | 1/8/2021 3:45:32 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.3786 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154802 | CCV_0108HP51 | HC-8015-DRO- | CAL4 | | 1/8/2021 4:27:38 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 39.10215 | | 37.5 | 0 | 0 | 0.0499 | 0.3 | 50 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154803 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 5:09:49 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 50.03634 | | 50 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154804 | CCV_0108HP50 | HC-8015-DRO- | CAL1 | | 1/8/2021 5:52:15 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00201784 | | 0.002 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154805 | CCV_0108HP50 | HC-8015-DRO- | CAL2 | | 1/8/2021 6:34:45 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04980491 | | 0.05 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154806 | CCV_0108HP50 | HC-8015-DRO- | CAL3 | | 1/8/2021 7:17:18 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2027571 | | 0.2 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154807 | CCV_0108HP50 | HC-8015-DRO- | CAL4 | | 1/8/2021 7:59:52 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.4989882 | | 0.5 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154808 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 8:42:33 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.9852039 | | 1 | 0 | 0 | 0.000327 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154809 | CCV_0108HP51 | HC-8015-DRO- | ICV | | 1/8/2021 9:25:08 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 14.94195 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Version: 6

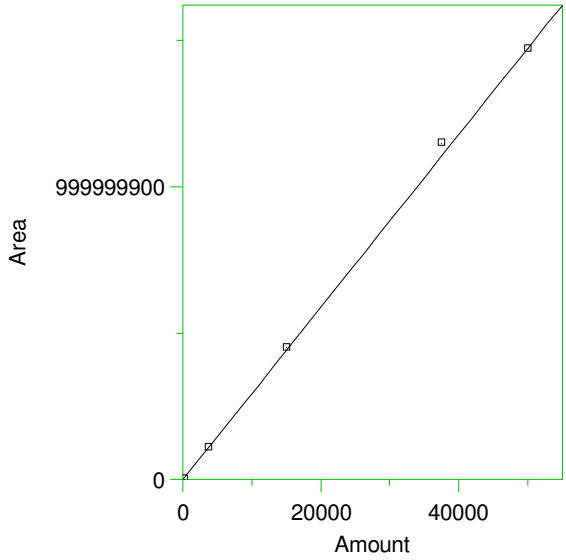
Creator: AMN 1/11/2021
Description: DRO-8015C. New ICal Per 0108HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.82 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

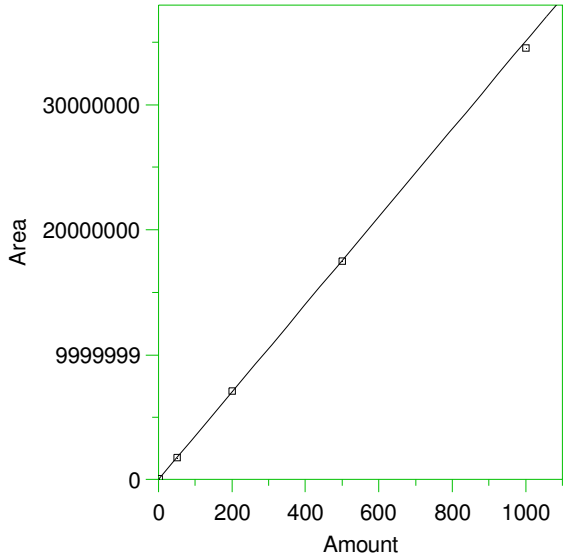
Y = 29457.33 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9985872 |
| Average error: | 3.979% |
| Average CF: | 29457.33 |
| RSD: | 5.768% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3979014 | 26526.76 | -9.949 | Manual | 1/11/2021 9:46:00 AM |
| 2 | 3750 | 1.138667E+08 | 30364.46 | 3.079 | Manual | 1/11/2021 9:46:09 AM |
| 3 | 15000 | 4.530125E+08 | 30200.83 | 2.524 | Manual | 1/11/2021 9:46:18 AM |
| 4 | 37500 | 1.151845E+09 | 30715.87 | 4.272 | Manual | 1/11/2021 9:46:27 AM |
| 5 | 50000 | 1.473937E+09 | 29478.74 | 0.073 | Manual | 1/11/2021 9:46:39 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.57 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

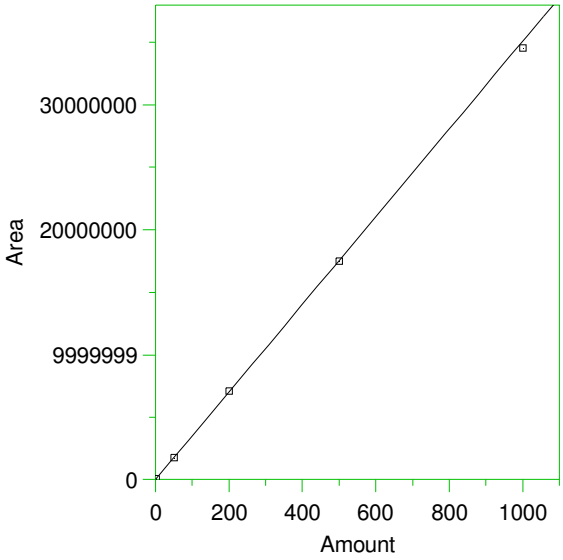
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.36 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

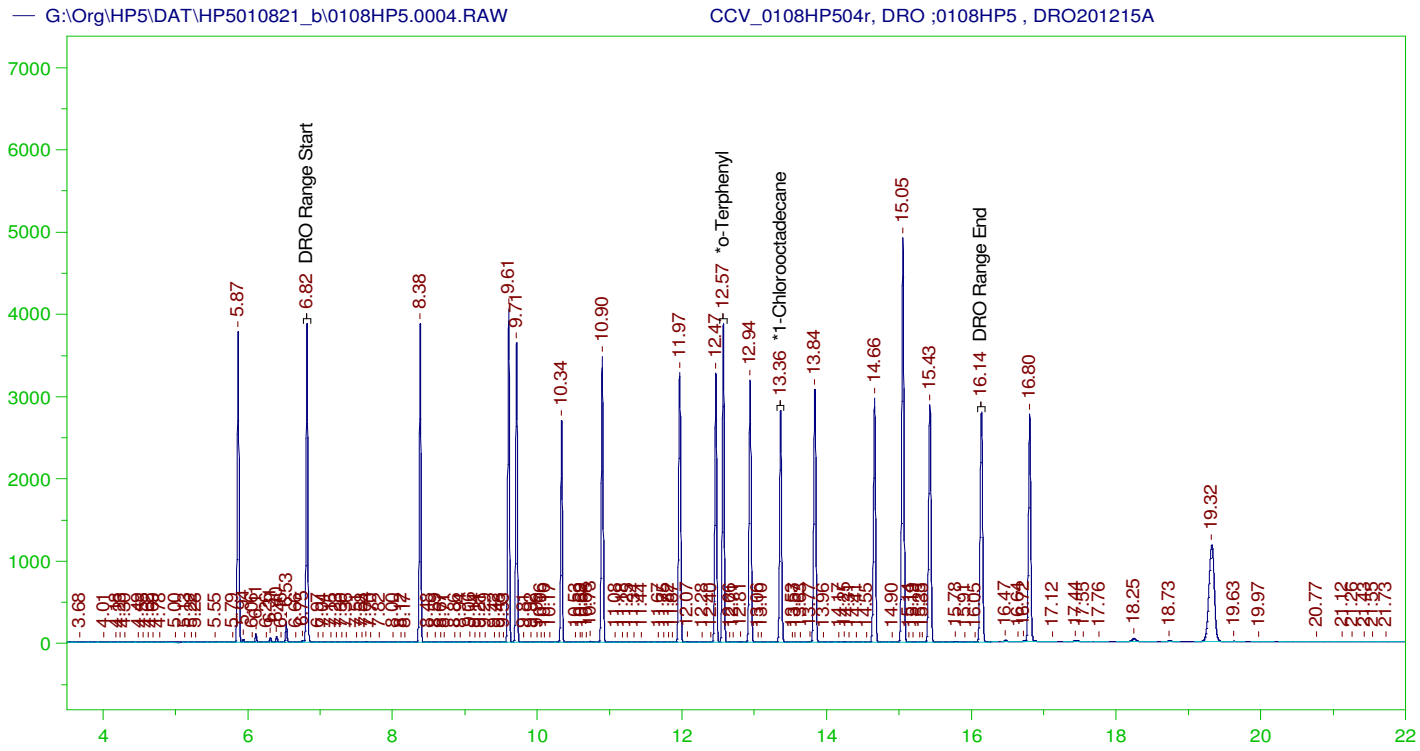
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP504r, DRO ;0108HP5 , DRO201215A
Raw File: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW
Date & Time Acquired: 1/8/2021 12:47:29 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | - |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | - |

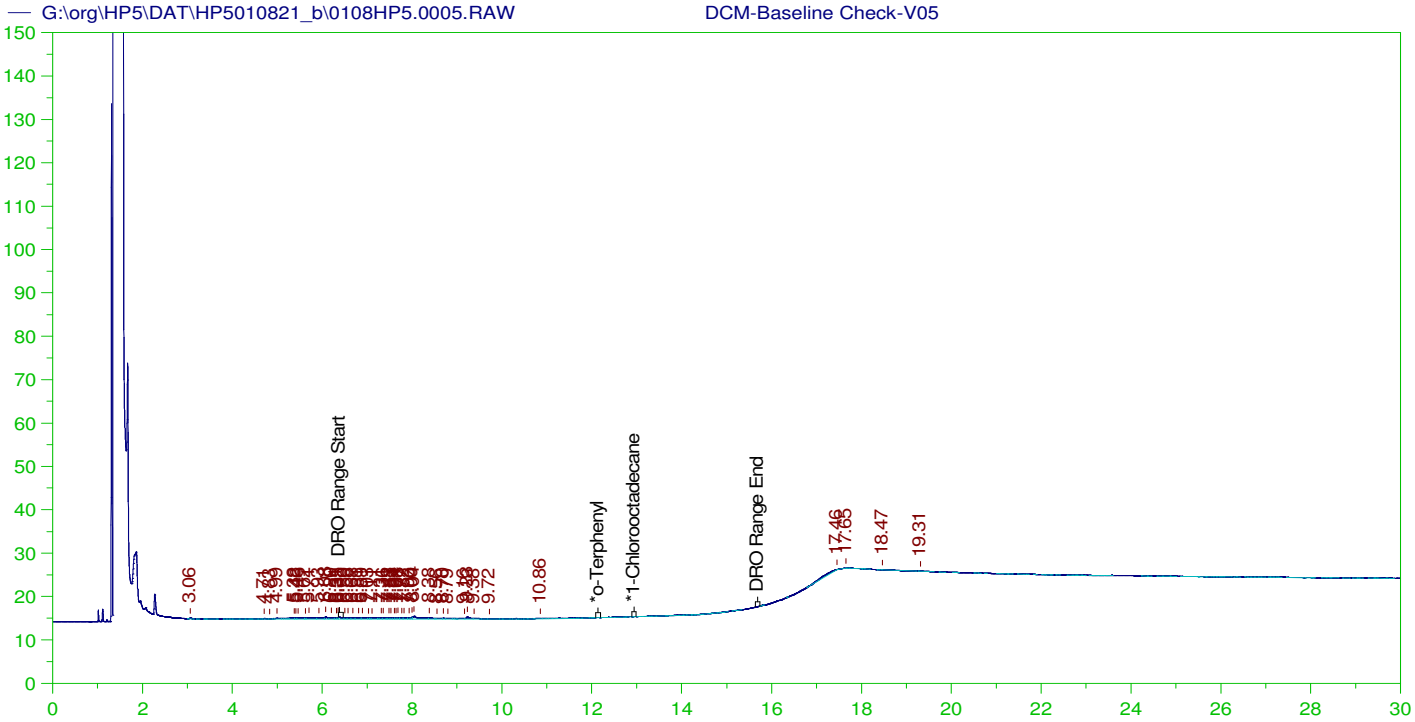
DRO Area:8.880706E+07 DRO Amount: 3014.77
TEH Area:1.082932E+08 TEH Amount: 3676.273

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3676.27 | 24.51 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | 85-115 |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\004_CCV_0108HP504r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

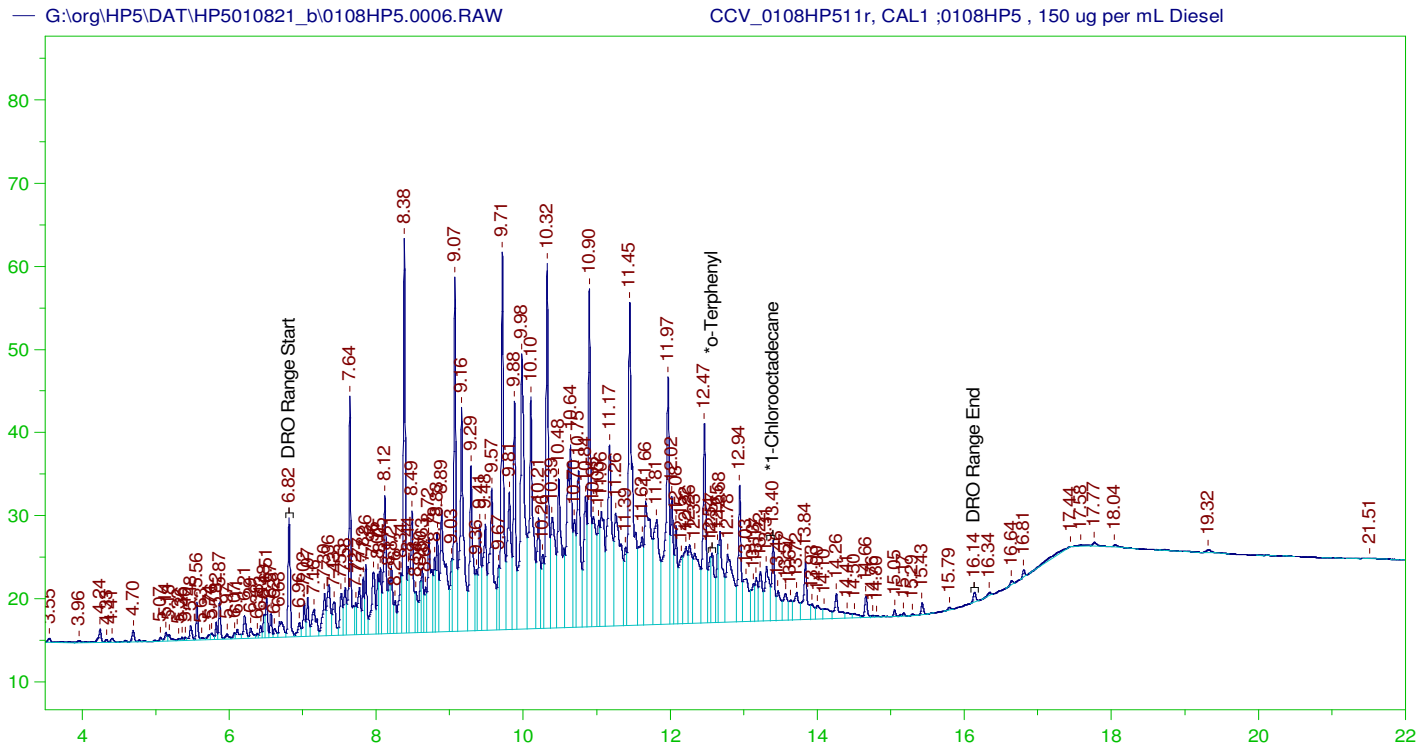
Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0005.RAW
Date & Time Acquired: 1/8/2021 1:29:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-GX-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO200123GX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28963.21
Rt range for Diesel Range Organics: 6.36 to 15.74

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.787 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.787 | 200. | . | . | - |

DRO Area:48911.73 DRO Amount: 1.688754
TEH Area:90991.55 TEH Amount: 3.141625

G:\org\HP5\dat\HP5010821_b\Review\005_DCM-Baseline Chec_DR_8015-GX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW
Date & Time Acquired: 1/8/2021 2:21:25 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | - |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | - |

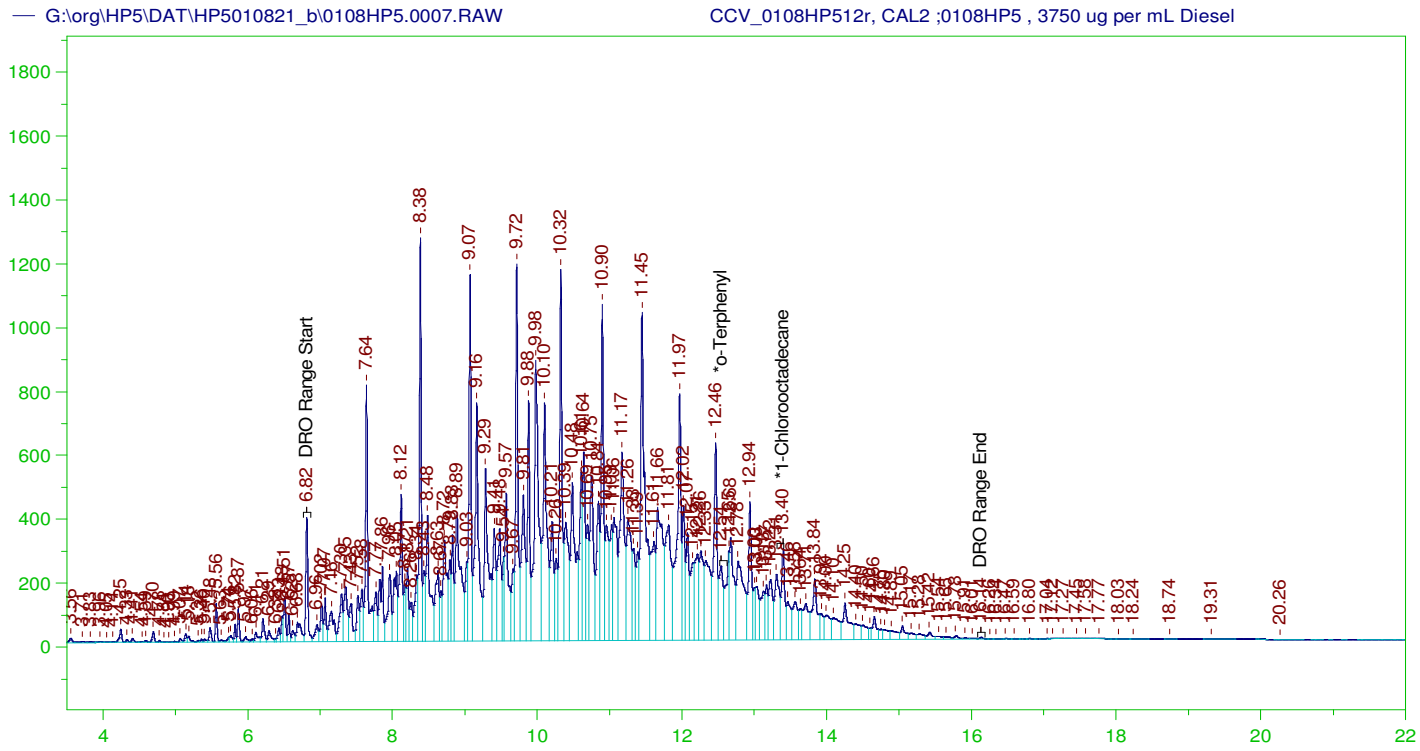
DRO Area:3854036 DRO Amount: 130.8345
TEH Area:3979014 TEH Amount: 135.0772

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 135.08 | .9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | 85-115 |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\006_CCV_0108HP511r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW
Date & Time Acquired: 1/8/2021 3:03:30 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | - |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | - |

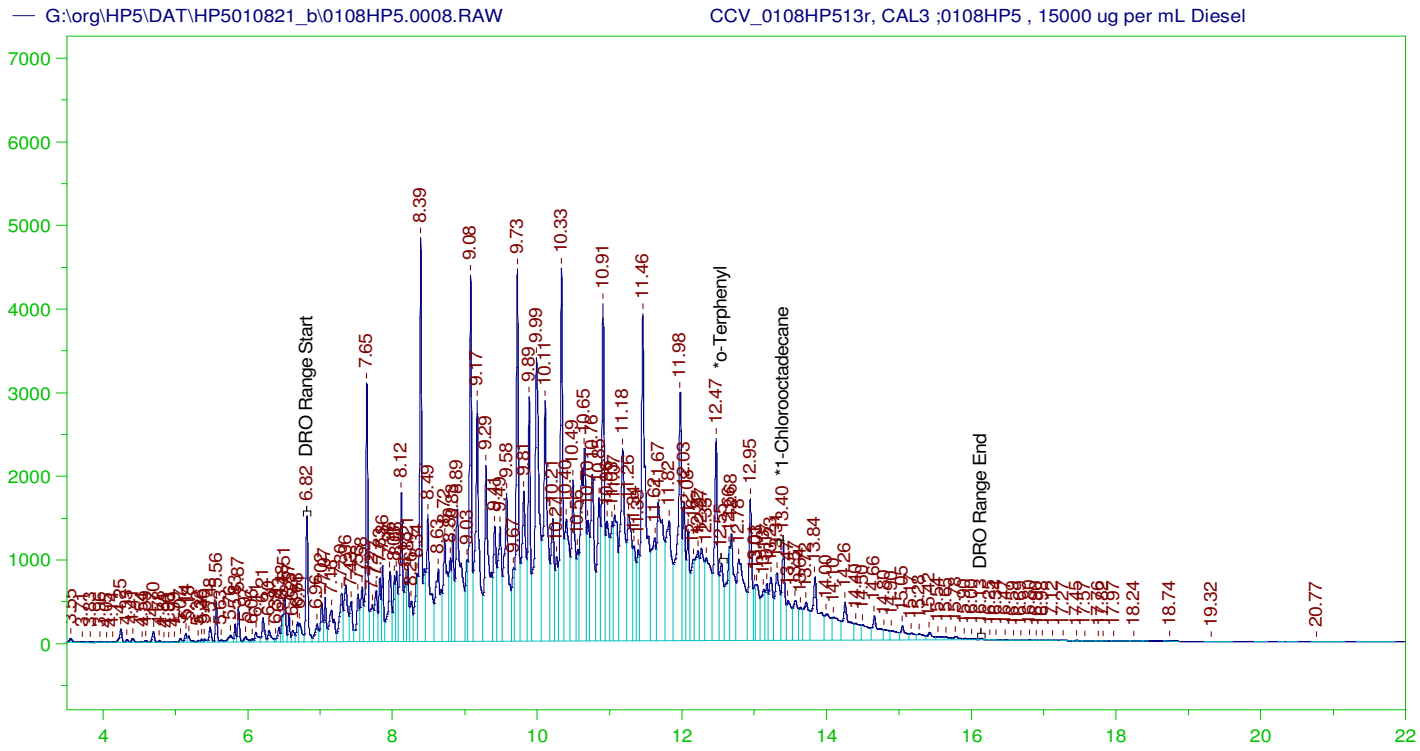
DRO Area:1.111179E+08 DRO Amount: 3772.164
TEH Area:1.138667E+08 TEH Amount: 3865.478

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3865.48 | 25.77 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | 85-115 |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\007_CCV_0108HP512r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW
Date & Time Acquired: 1/8/2021 3:45:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | - |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | - |

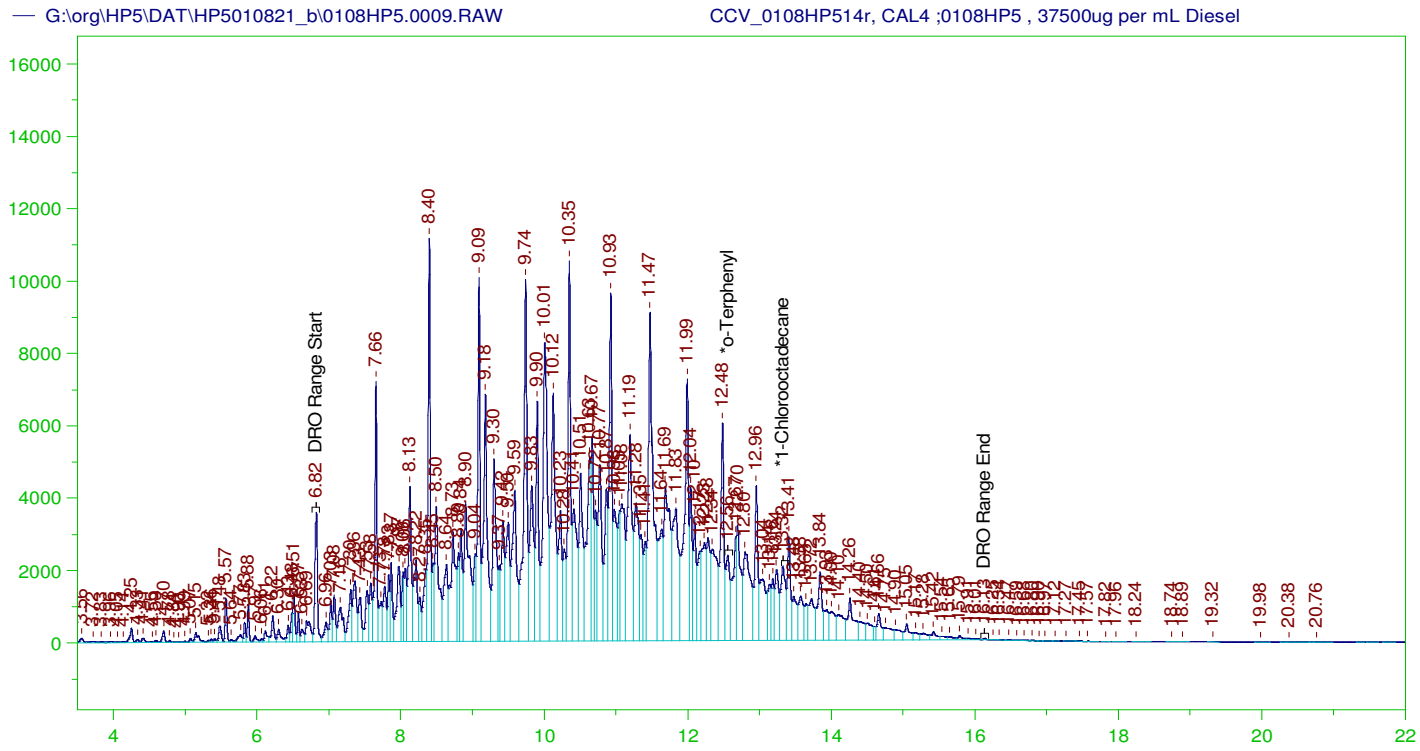
DRO Area:4.420163E+08 DRO Amount: 15005.31
TEH Area:4.530125E+08 TEH Amount: 15378.6

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15378.6 | 102.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | 85-115 |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\008_CCV_0108HP513r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW
Date & Time Acquired: 1/8/2021 4:27:38 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | - |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | - |

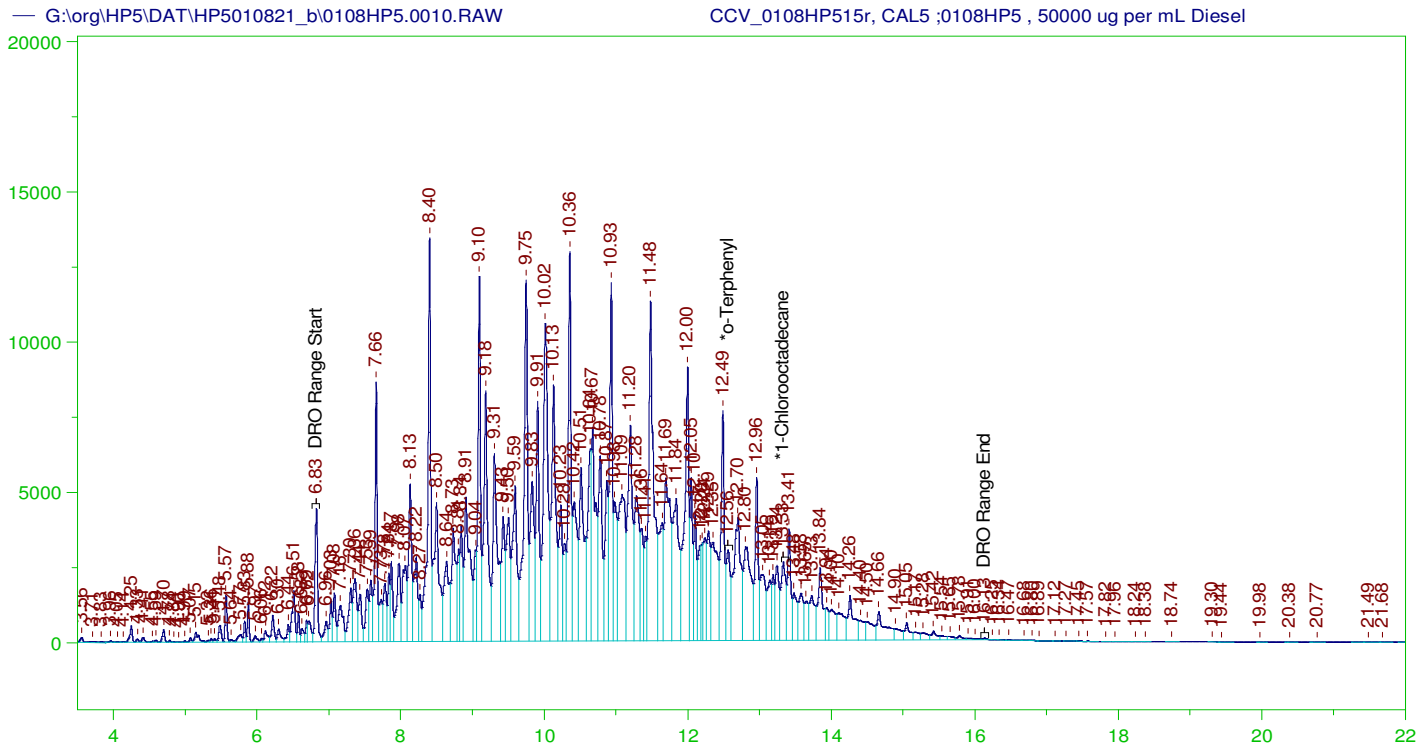
DRO Area:1.1239E+09 DRO Amount: 38153.5
TEH Area:1.151845E+09 TEH Amount: 39102.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39102.15 | 260.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | 85-115 |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\009_CCV_0108HP514r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW
Date & Time Acquired: 1/8/2021 5:09:49 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | - |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | - |

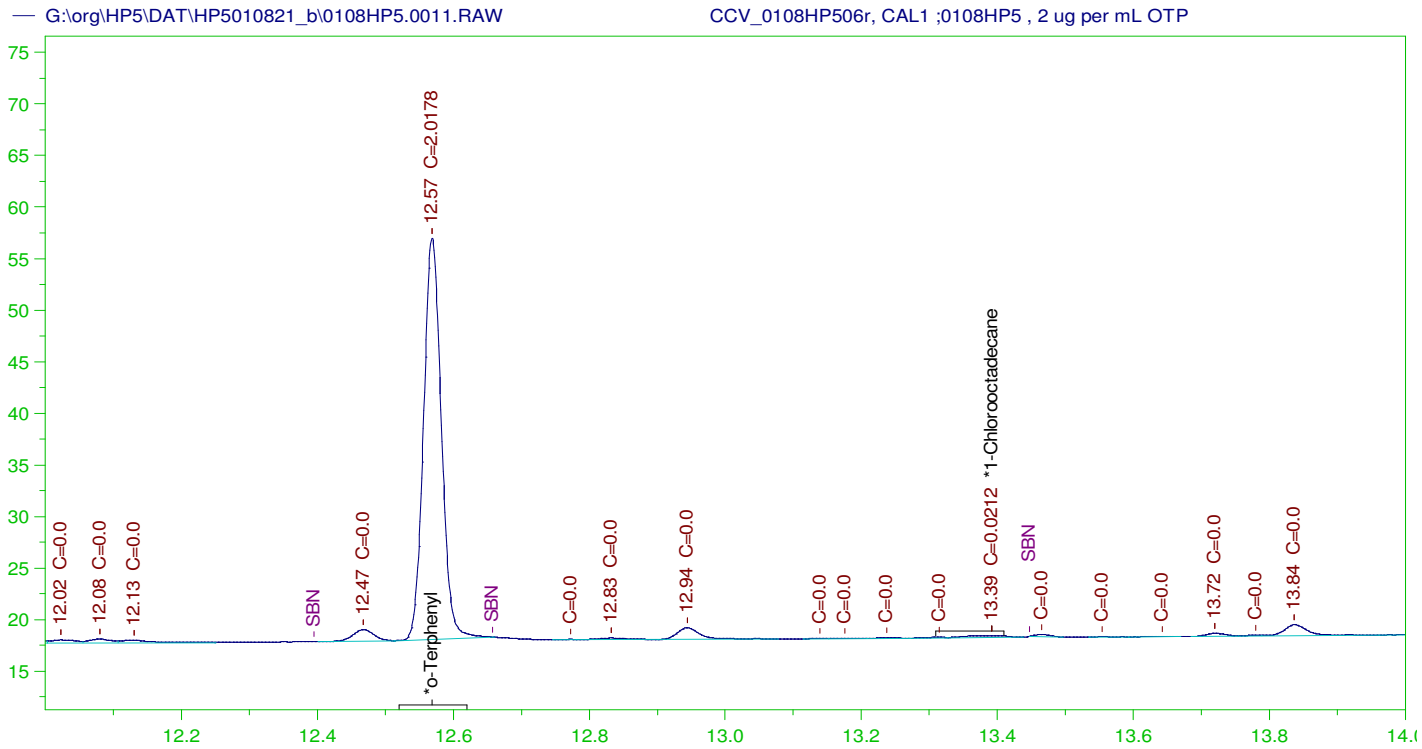
DRO Area:1.438162E+09 DRO Amount: 48821.87
TEH Area:1.473937E+09 TEH Amount: 50036.34

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 50036.34 | 333.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | 85-115 |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\010_CCV_0108HP515r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW
Date & Time Acquired: 1/8/2021 5:52:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | - |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | - |

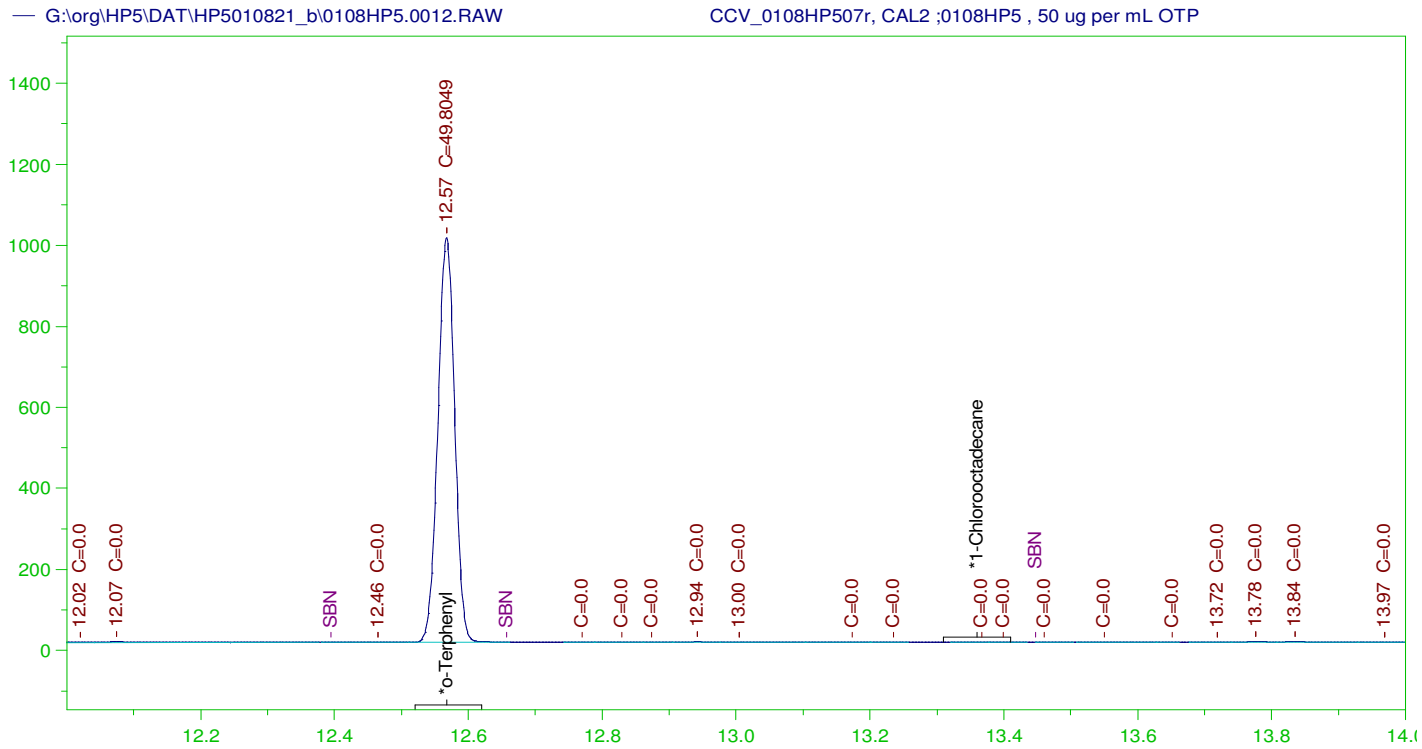
DRO Area:153898.5 DRO Amount: 5.224453
TEH Area:367701.2 TEH Amount: 12.4825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | 85-115 |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\011_CCV_0108HP506r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW
Date & Time Acquired: 1/8/2021 6:34:45 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | - |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | - |

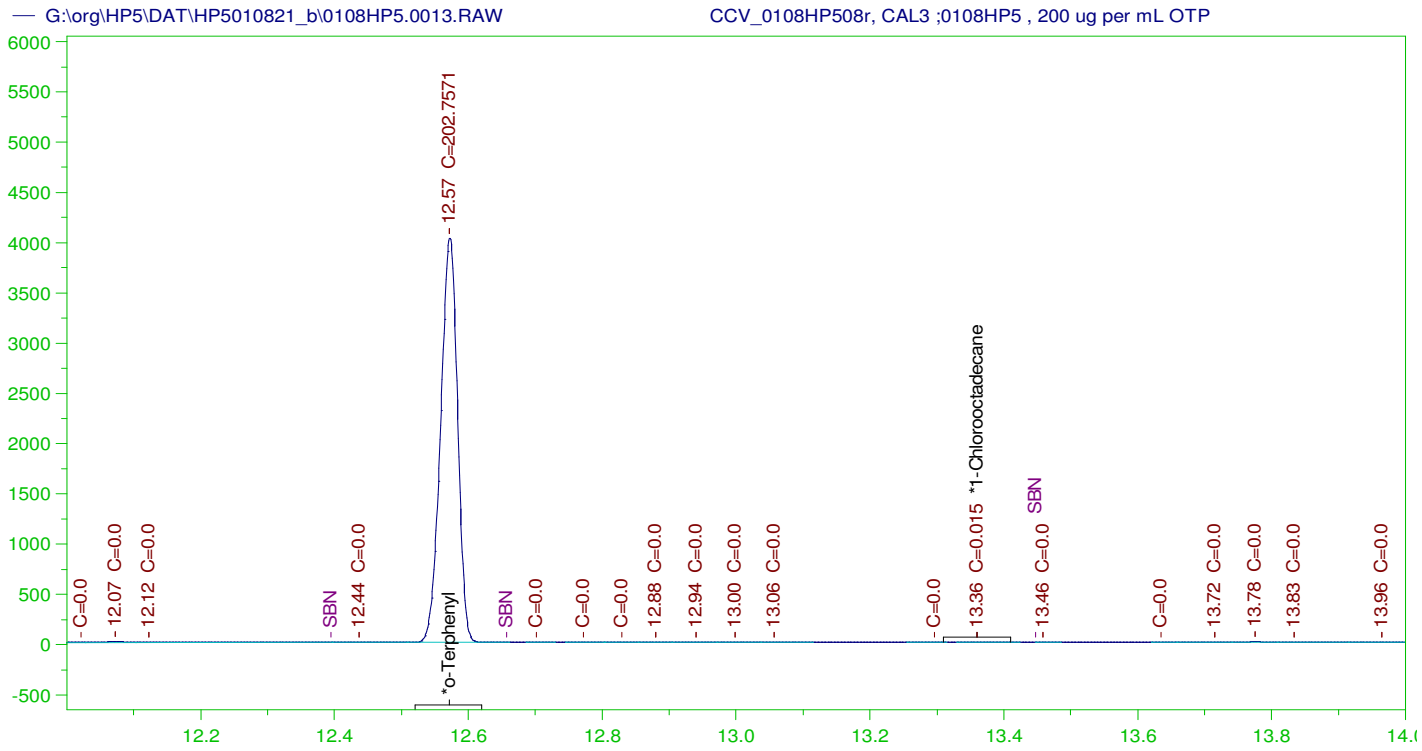
DRO Area:198540.3 DRO Amount: 6.739929
TEH Area:443484.3 TEH Amount: 15.05514

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | 85-115 |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\012_CCV_0108HP507r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW
Date & Time Acquired: 1/8/2021 7:17:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | - |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | - |

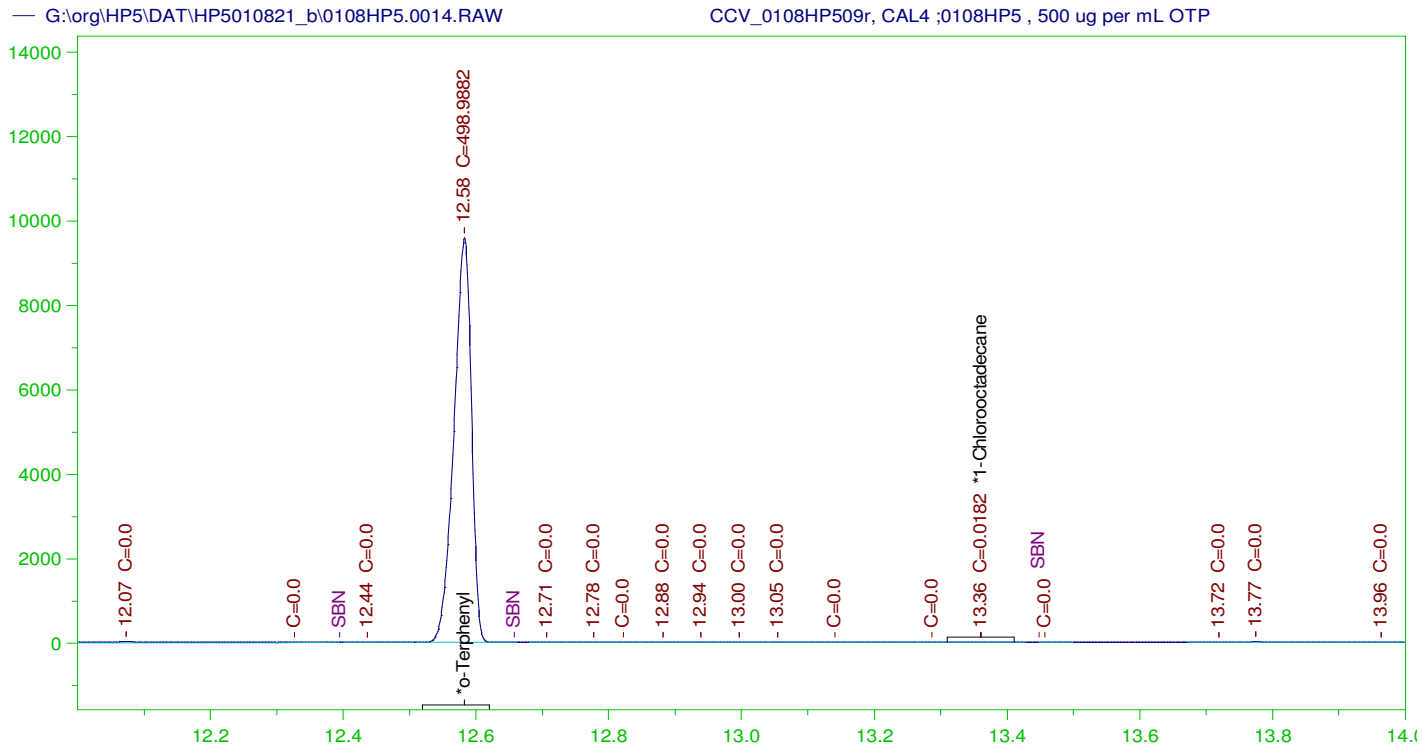
DRO Area:425468.4 DRO Amount: 14.44355
TEH Area:809202.7 TEH Amount: 27.47033

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 27.47 | .18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | 85-115 |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\013_CCV_0108HP508r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW
Date & Time Acquired: 1/8/2021 7:59:52 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | - |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | - |

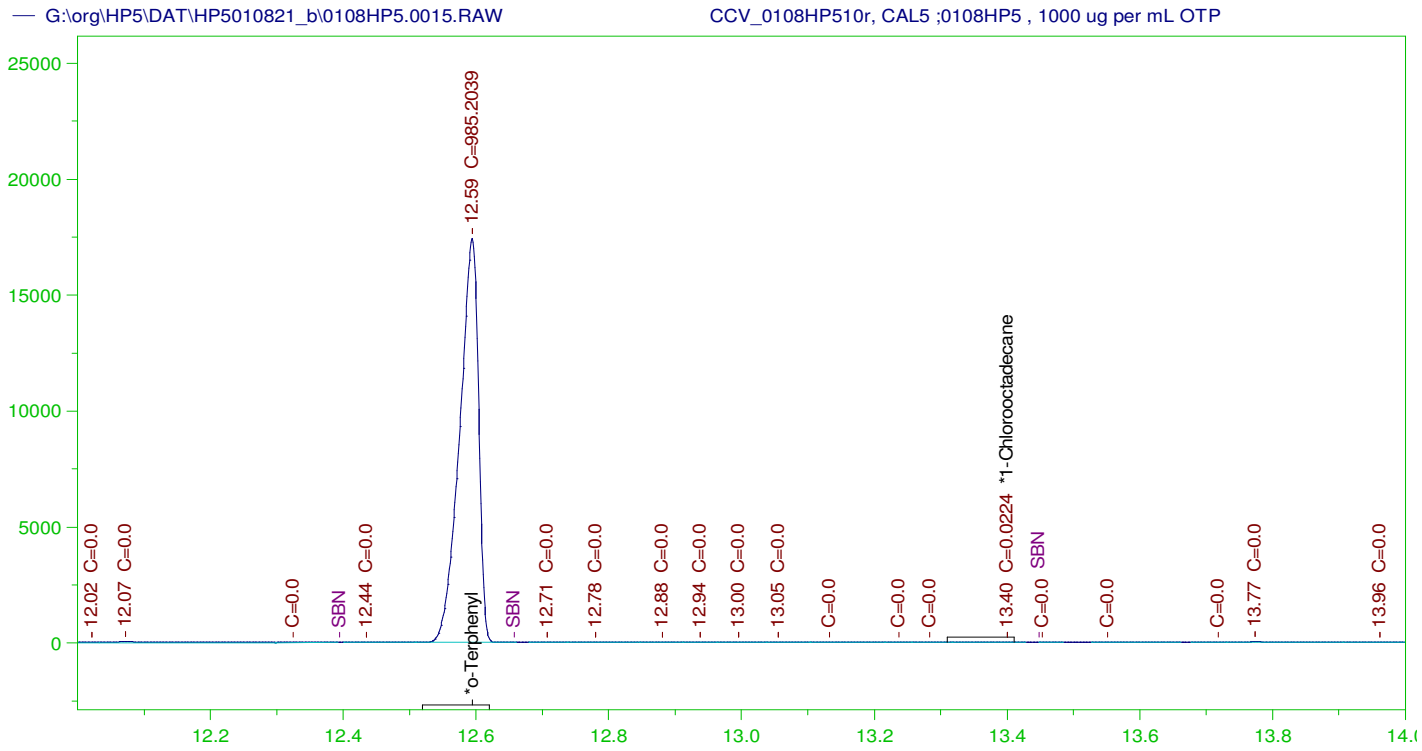
DRO Area:651862.6 DRO Amount: 22.12904
TEH Area:1164840 TEH Amount: 39.5433

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39.54 | .26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | 85-115 |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\014_CCV_0108HP509r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW
Date & Time Acquired: 1/8/2021 8:42:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | - |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | - |

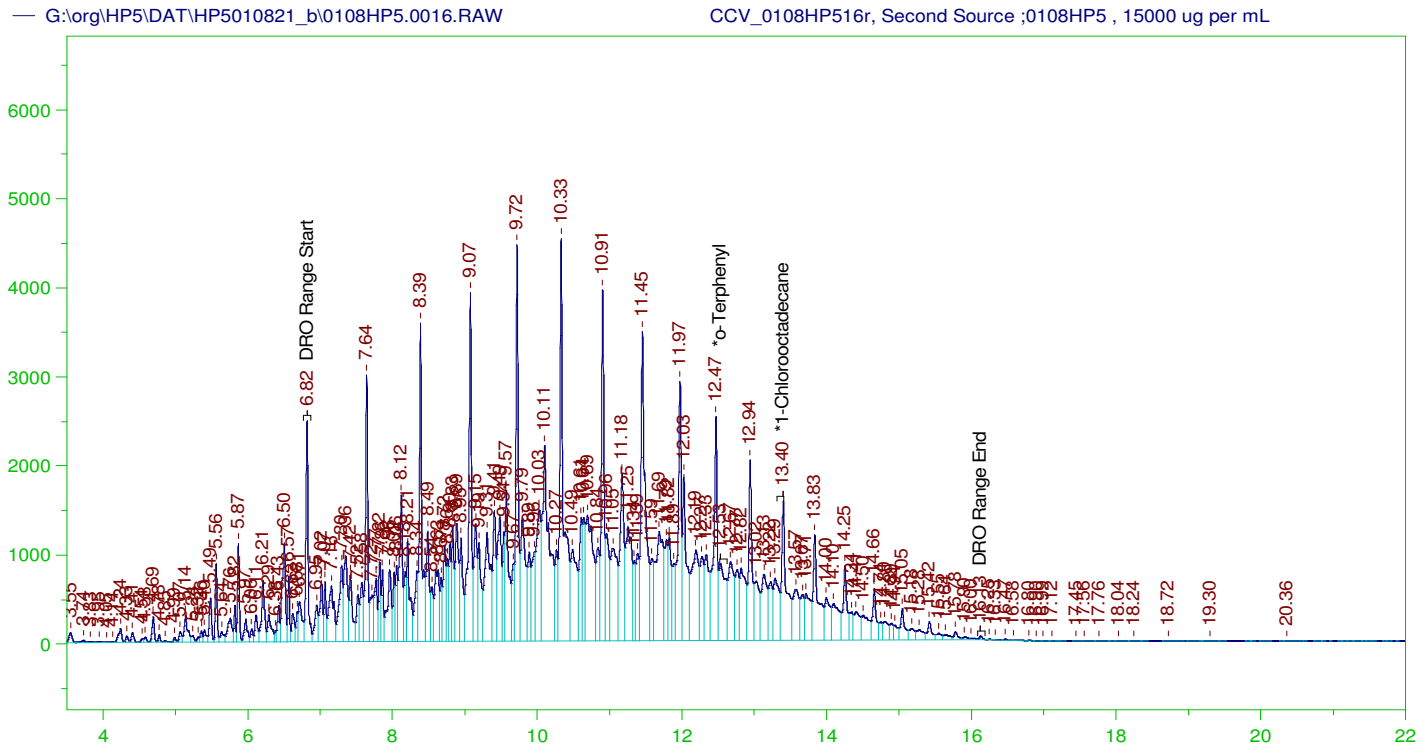
DRO Area:856596.9 DRO Amount: 29.07924
TEH Area:1371563 TEH Amount: 46.561

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 46.56 | .31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | 85-115 |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\015_CCV_0108HP510r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW
Date & Time Acquired: 1/8/2021 9:25:08 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | - |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | - |

DRO Area:4.138122E+08 DRO Amount: 14047.85
TEH Area:4.4015E+08 TEH Amount: 14941.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 14941.95 | 99.61 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | 85-115 |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\016_CCV_0108HP516r_DC_8015-HA-L%.xls

Write Sequence

Insert Entries(Have the first cell for entries selected)

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj.. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | Integration is valley to valley. Assigned Set Baseline All Valley on at 17.5. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.01.27 15:17:17 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Sep-21*

**Run ID** GCFID-HP5-B_210218B

**Run Start Date:** 2/18/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015 OIL range calibration
SW8015_OIL210218

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL | 8/31/2025 |
| DRO210204A | Carbon Scan STD | | | | | MARKER | 3/5/2028 |
| DRO210217A | 20,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | ICV | 8/23/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282665 | CCV_0218HP50 | HC-8015-DRO- | CAL1 | | 2/18/2021 12:03: | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1468323 | | 0.15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282666 | CCV_0218HP50 | HC-8015-DRO- | CAL2 | | 2/18/2021 1:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.062811 | | 1 | 0 | 0 | 0.15 | 0.3 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282667 | CCV_0218HP50 | HC-8015-DRO- | CAL3 | | 2/18/2021 2:51:0 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.035713 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282668 | CCV_0218HP50 | HC-8015-DRO- | CAL4 | | 2/18/2021 4:14:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.69295 | | 15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282669 | CCV_0218HP51 | HC-8015-DRO- | CAL5 | | 2/18/2021 5:38:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 28.20769 | | 30 | 0 | 0 | 0.15 | 0.3 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282670 | CCV_0218HP51 | HC-8015-DRO- | ICV | | 2/18/2021 8:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.474465 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 109% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Nam | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Version: 4

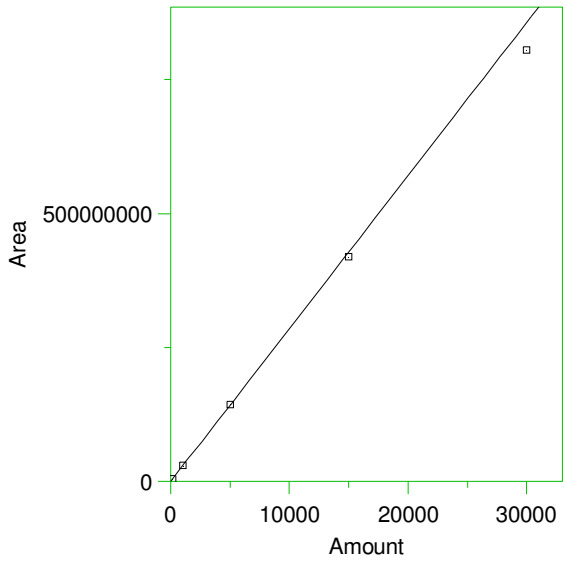
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




Expected retention time: 6.54 minutes
Search window: 0.05 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

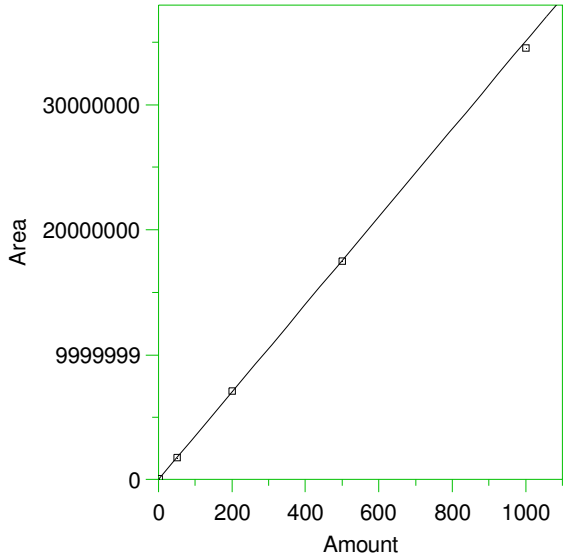
Single peak quantification by area

Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9940317
Average error: 3.209%
Average CF: 28542.41
RSD: 4.497%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 3/30/2021 11:50:57 AM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 3/30/2021 11:51:41 AM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 3/30/2021 11:52:00 AM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 3/30/2021 11:52:55 AM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 3/30/2021 11:52:32 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.14 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

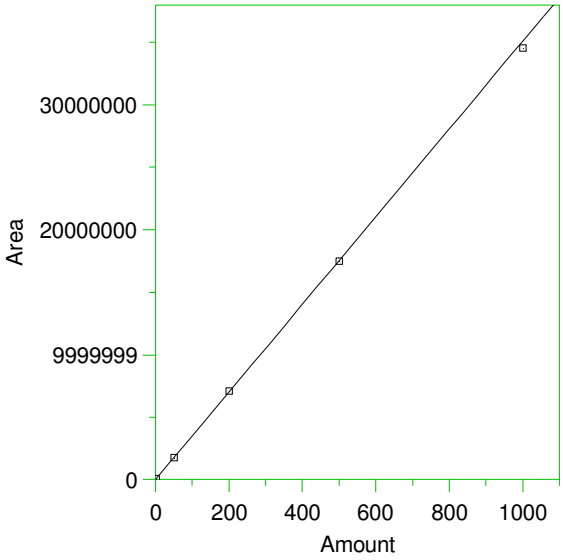
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.95 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

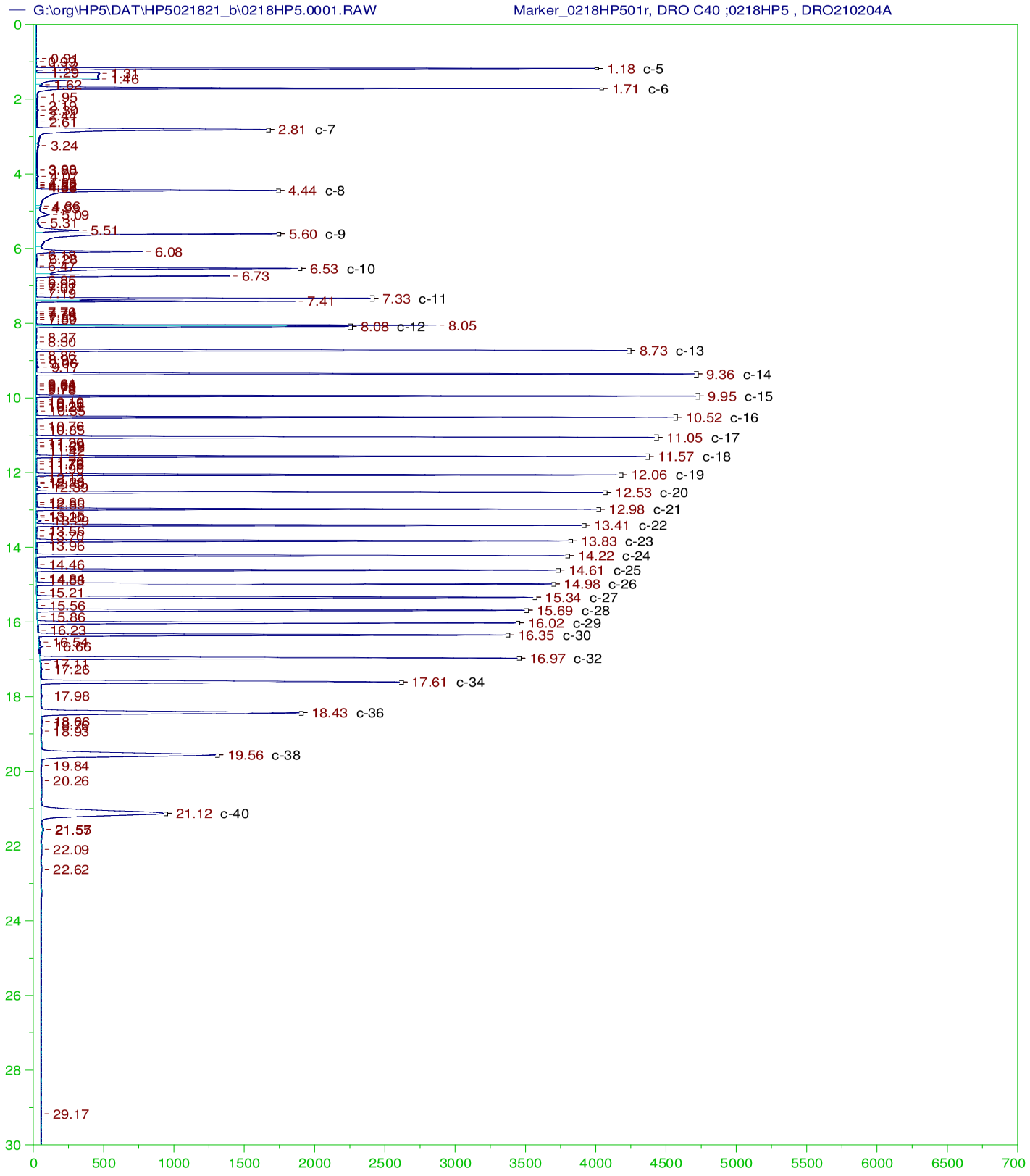
Single peak quantification by area

Y = 35071.26 X + 0

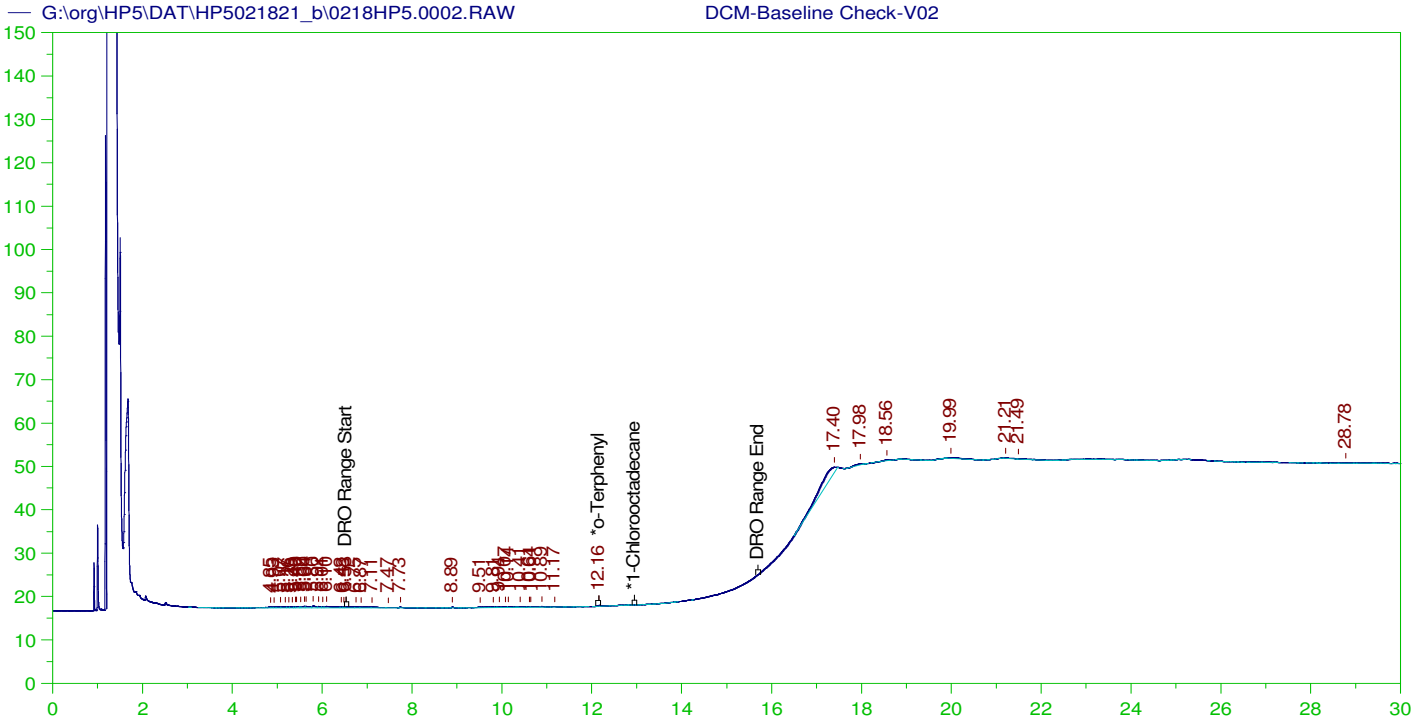
Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




G:\org\HP5\dat\HP5021821_b\Review\001_Marker_0218HP501r_CSC210212.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

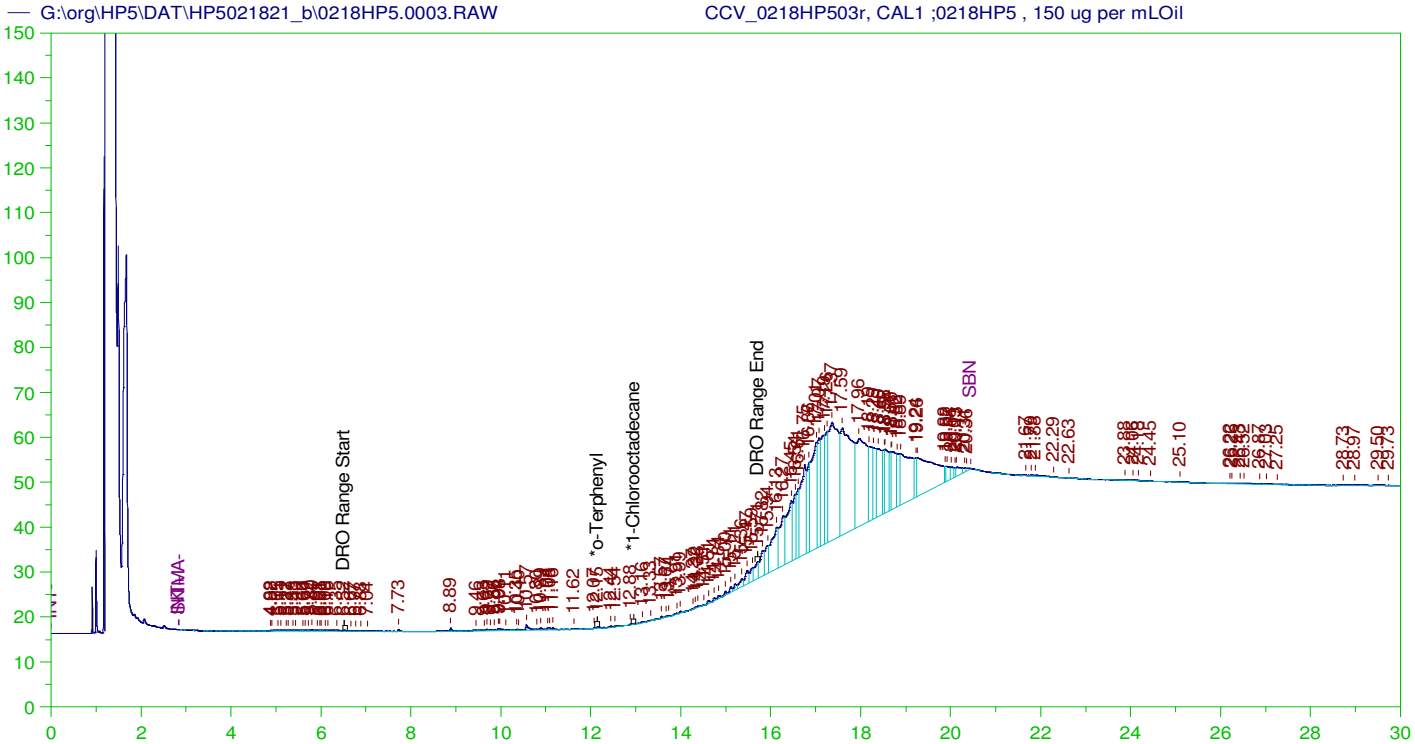
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
Date & Time Acquired: 2/18/2021 11:21:40 AM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.158 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 29.927 | 200. | . | . | - |

DRO Area:29553.31 DRO Amount: 1.003258
TEH Area:144057.3 TEH Amount: 4.890373

G:\org\HP5\dat\HP5021821_b\Review\002_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW
Date & Time Acquired: 2/18/2021 12:03:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021803-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | - |

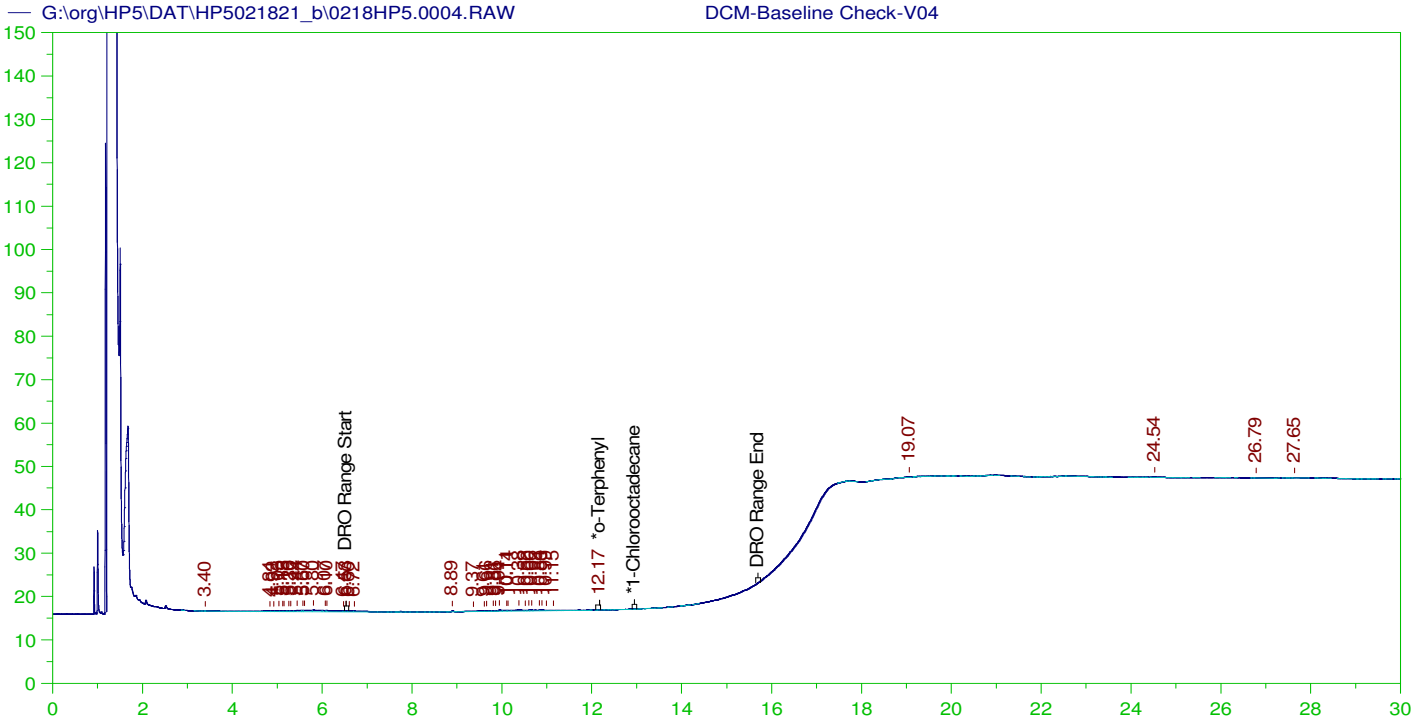
DRO Area:141843.8 DRO Amount: 4.969579
TEH Area:3766485 TEH Amount: 131.961

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 131.96 | 2.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | 85-115 |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\003_CCV_0218HP503r_DR_OIL-021803-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

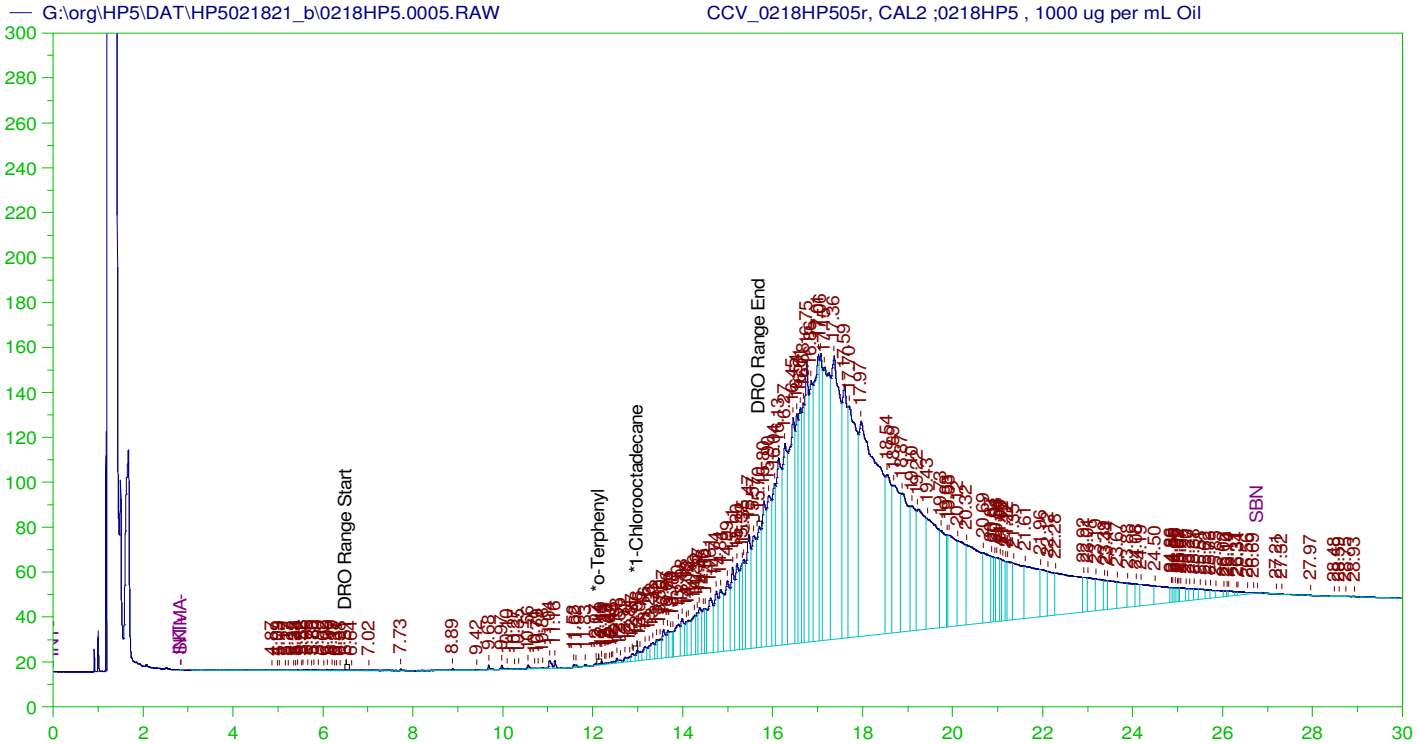
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
Date & Time Acquired: 2/18/2021 12:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.171 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.958 | 200. | . | . | - |

DRO Area:27245.38 DRO Amount: 0.9249101
TEH Area:63574.01 TEH Amount: 2.158173

G:\org\HP5\dat\HP5021821_b\Review\004_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW
Date & Time Acquired: 2/18/2021 1:27:30 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021805-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | - |

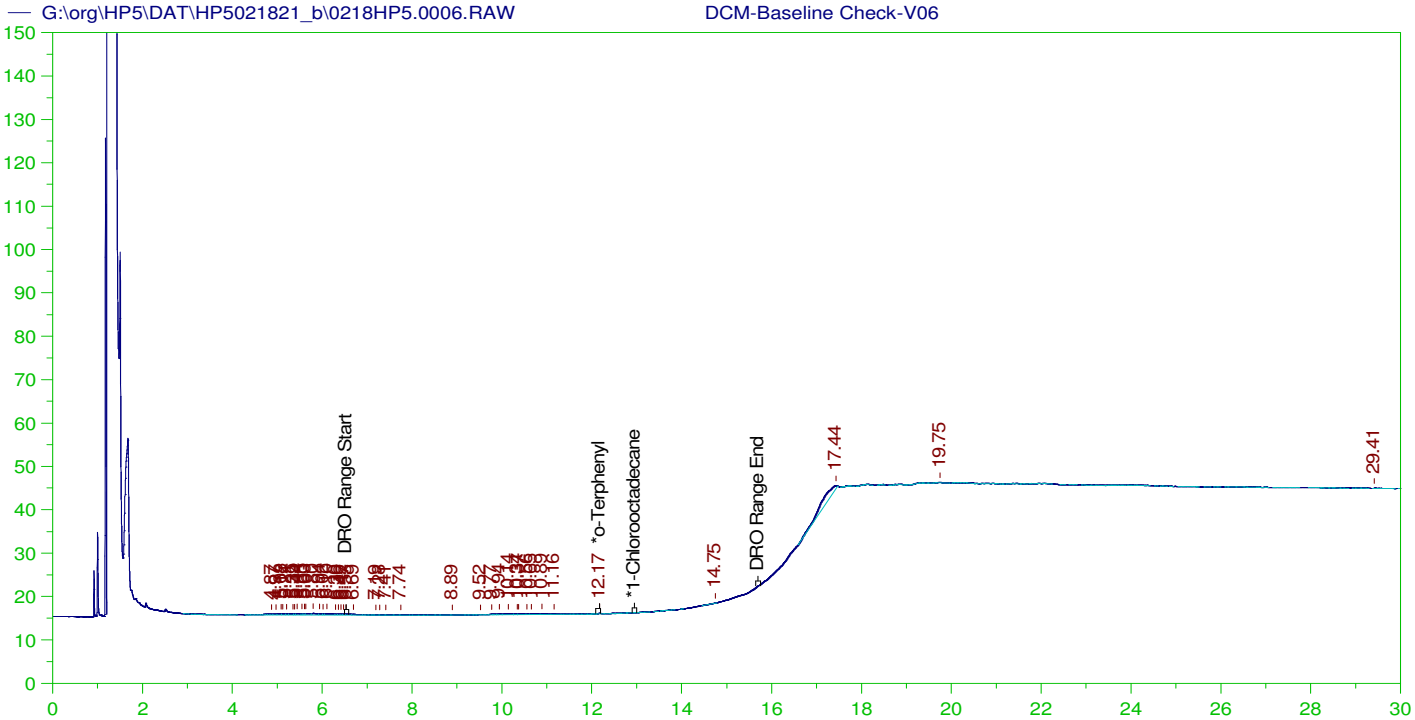
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1062.81 | 21.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | 85-115 |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\005_CCV_0218HP505r_DR_OIL-021805-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

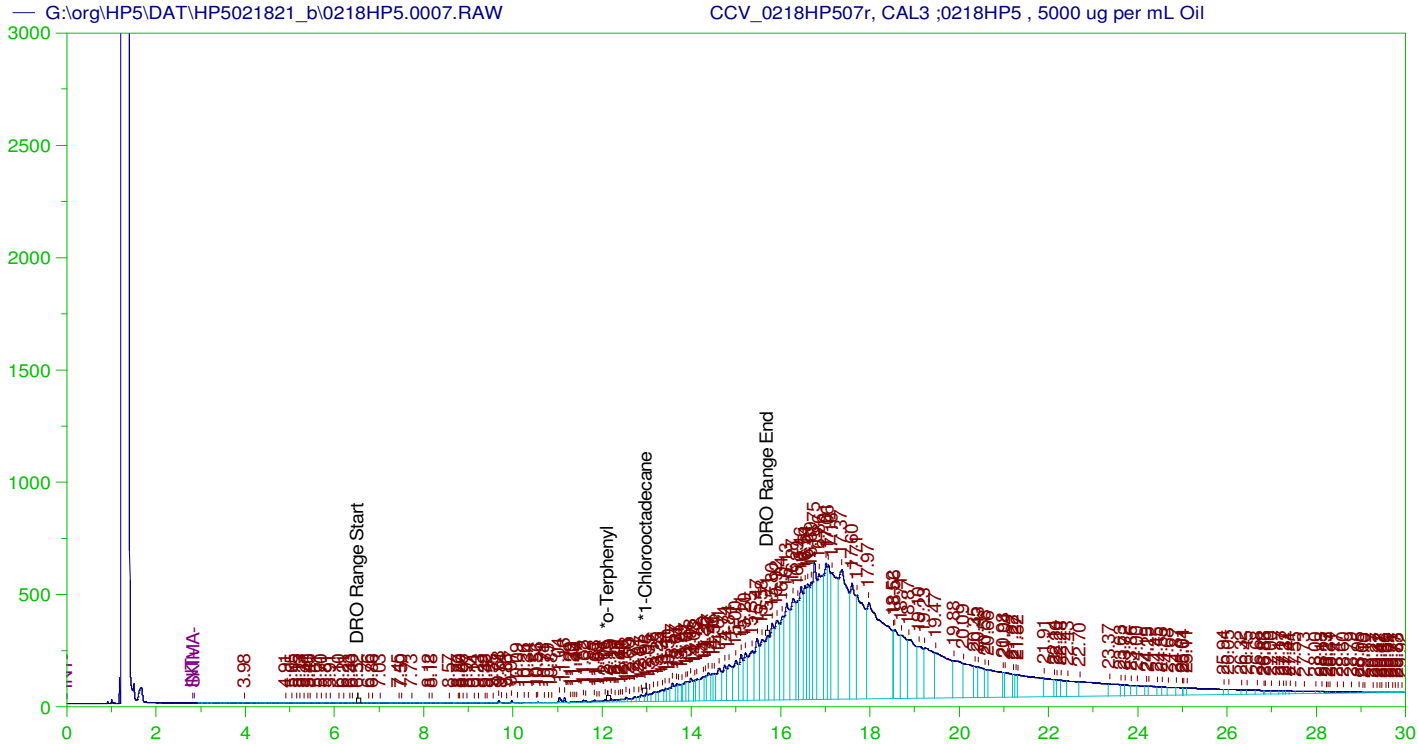
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0006.RAW
Date & Time Acquired: 2/18/2021 2:09:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:29249.25 DRO Amount: 0.9929362
TEH Area:123949.1 TEH Amount: 4.20775

G:\org\HP5\dat\HP5021821_b\Review\006_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW
Date & Time Acquired: 2/18/2021 2:51:00 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | - |

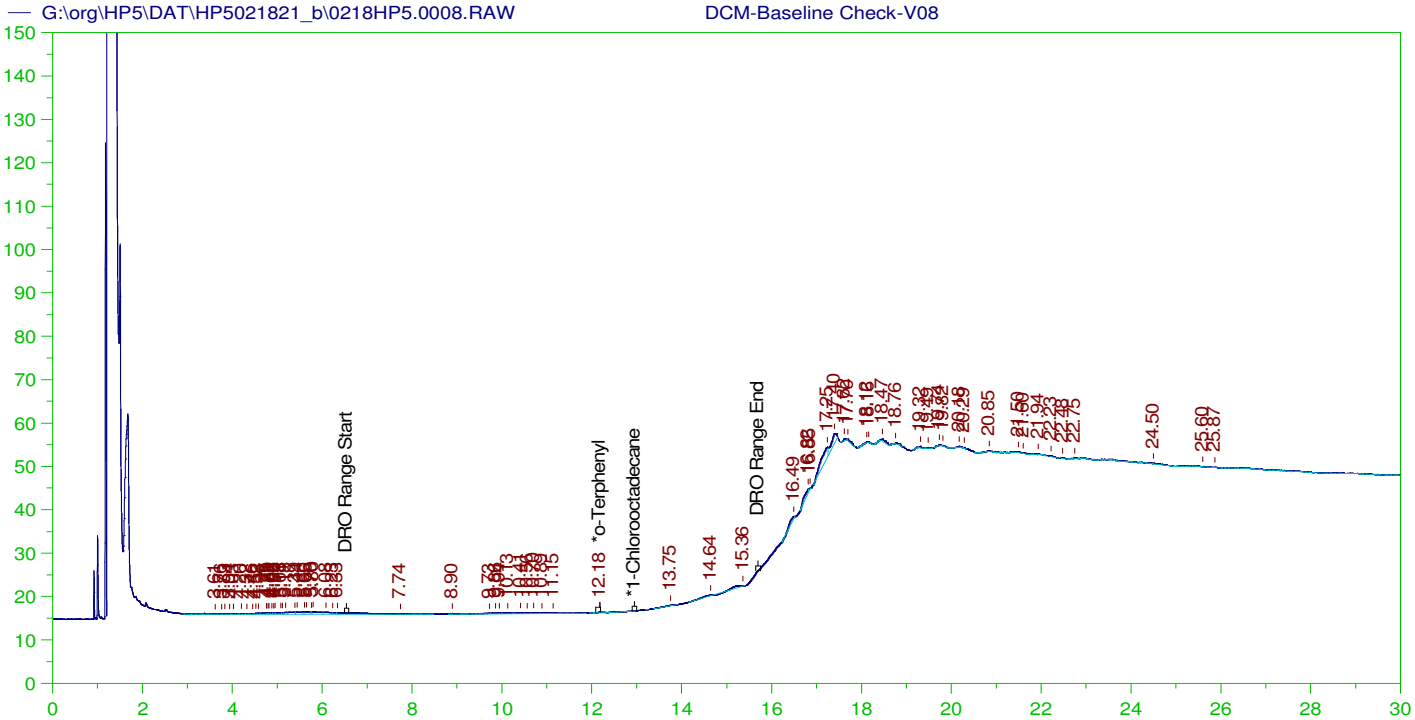
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5035.71 | 100.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\007_CCV_0218HP507r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

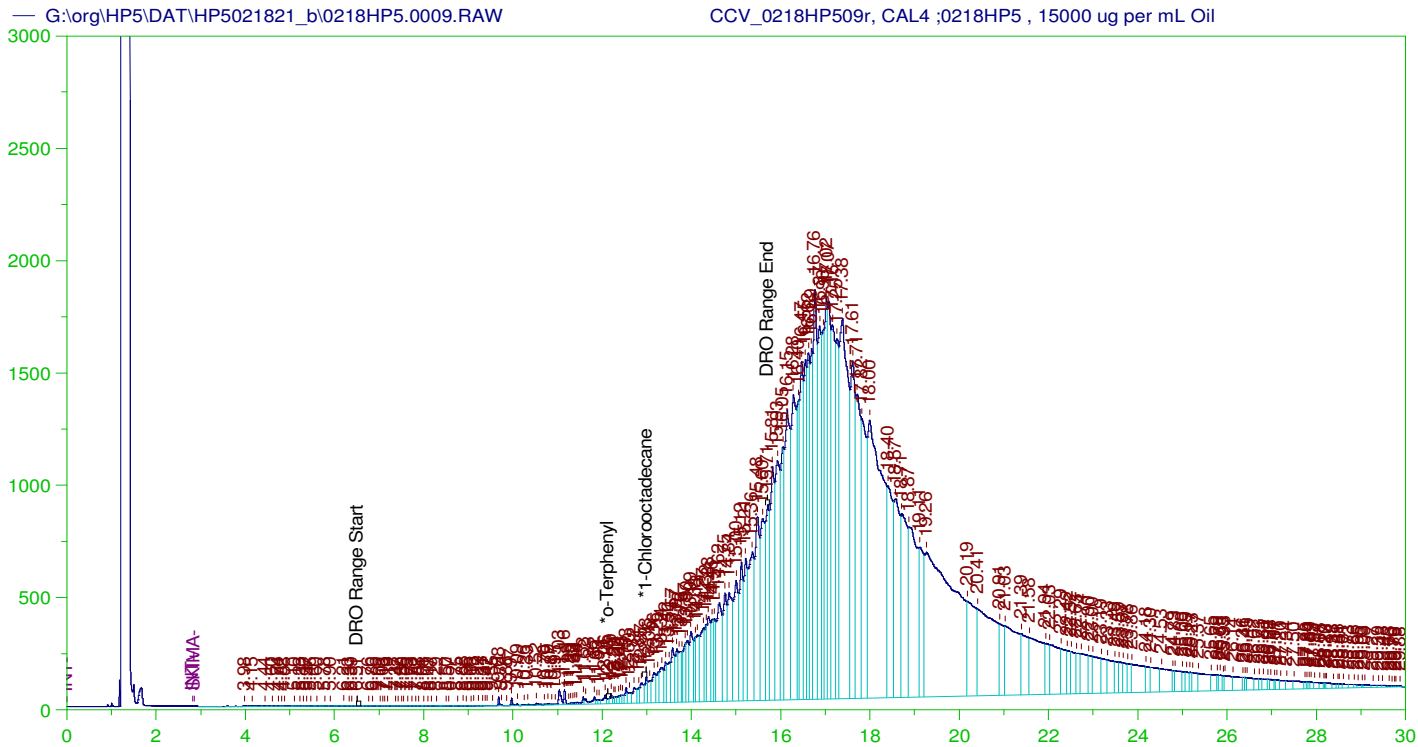
Sample Name: DCM-Baseline Check-V08
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0008.RAW
Date & Time Acquired: 2/18/2021 3:32:46 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .026 | .01 - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . - |

DRO Area:30717.07 DRO Amount: 1.042765
TEH Area:223672.8 TEH Amount: 7.593112

G:\org\HP5\dat\HP5021821_b\Review\008_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW
Date & Time Acquired: 2/18/2021 4:14:34 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | - |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | - |

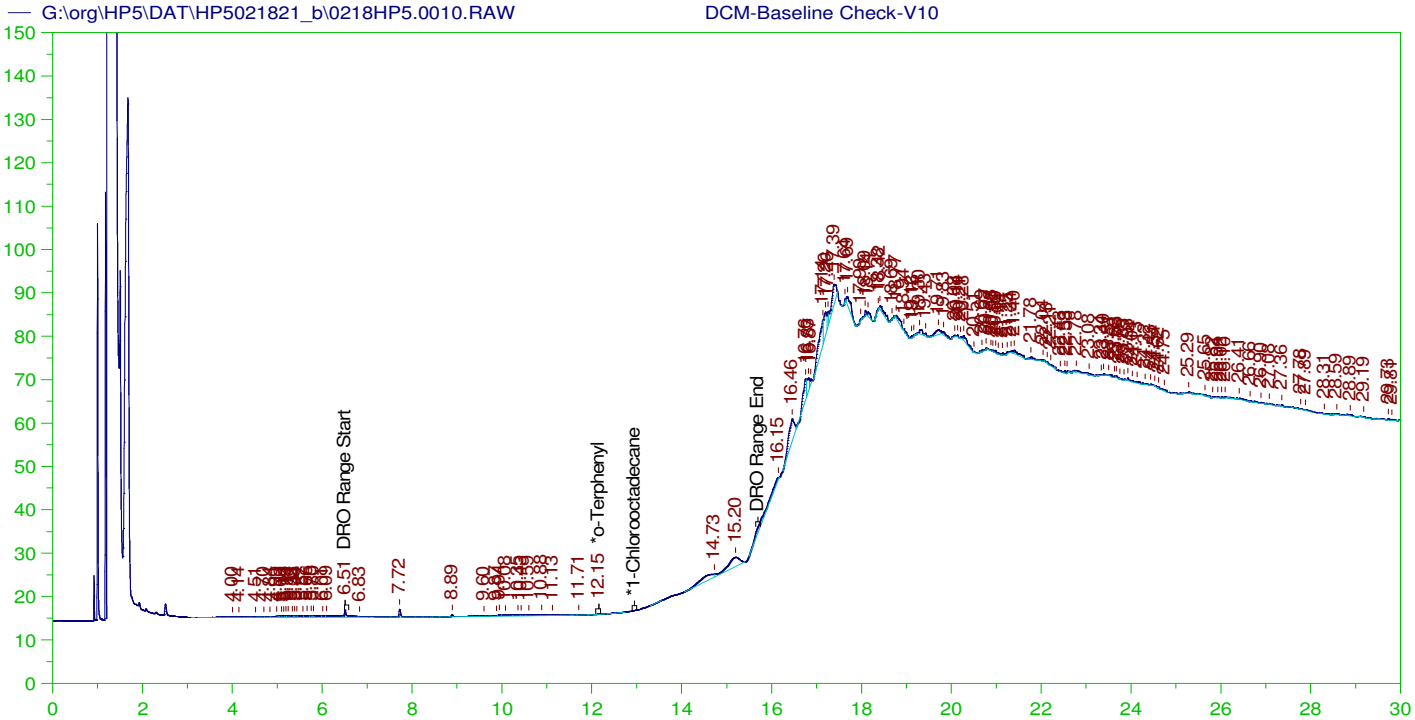
DRO Area:6.73131E+07 DRO Amount: 2358.354
TEH Area:4.193721E+08 TEH Amount: 14692.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14692.95 | 293.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | 85-115 |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\009_CCV_0218HP509r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

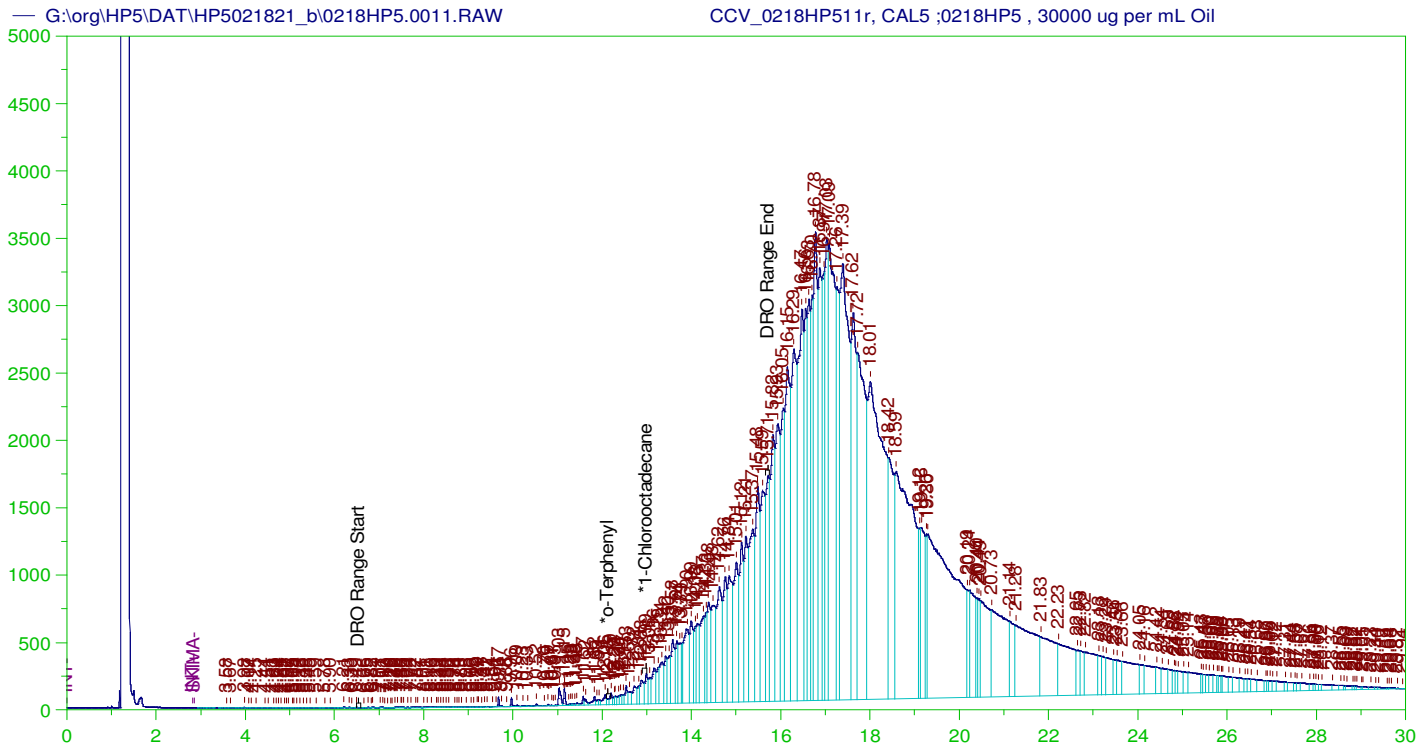
Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0010.RAW
Date & Time Acquired: 2/18/2021 4:56:16 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.153 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.957 | 200. | . | . | - |

DRO Area:108629.1 DRO Amount: 3.687675
TEH Area:543425.7 TEH Amount: 18.44789

G:\org\HP5\dat\HP5021821_b\Review\010_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW
Date & Time Acquired: 2/18/2021 5:38:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | - |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | - |

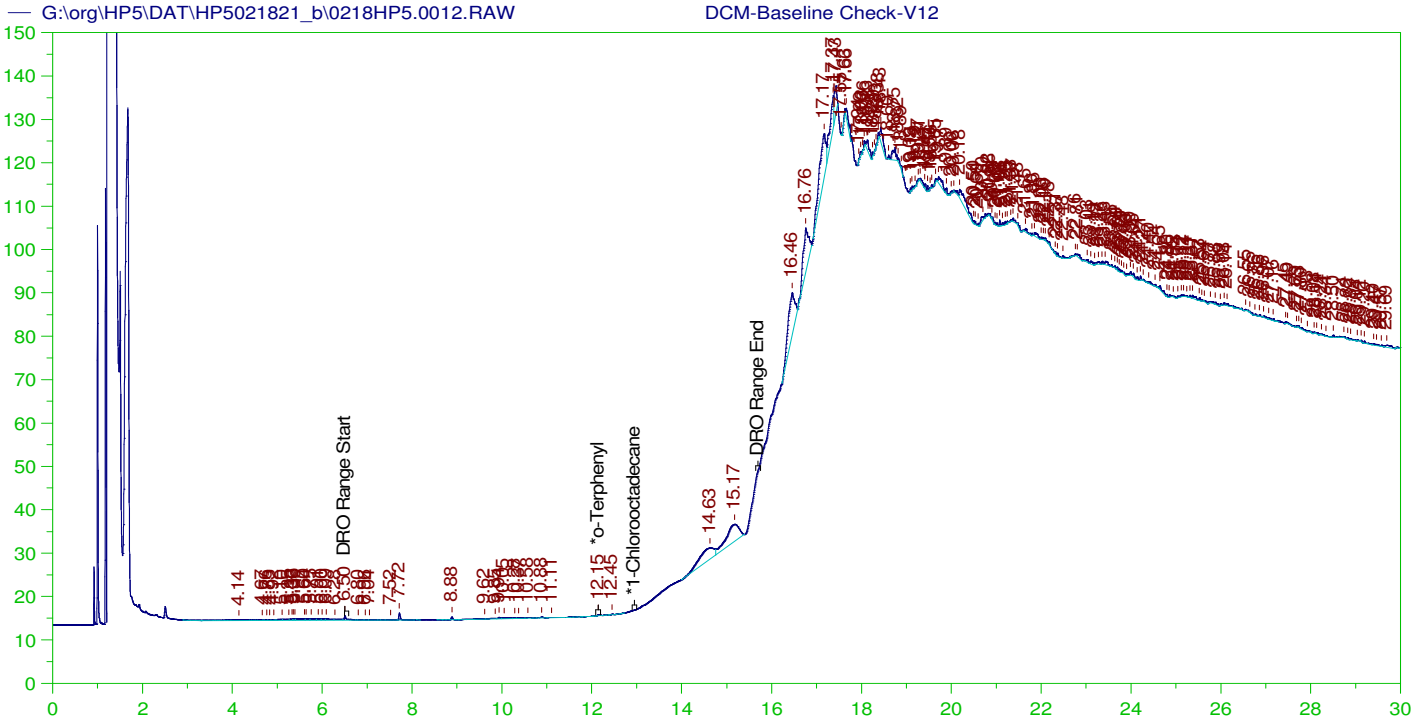
DRO Area:1.319327E+08 DRO Amount: 4622.338
TEH Area:8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 28207.69 | 564.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | 85-115 |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\011_CCV_0218HP511r_DR_OIL-021811-AA-L0.xls



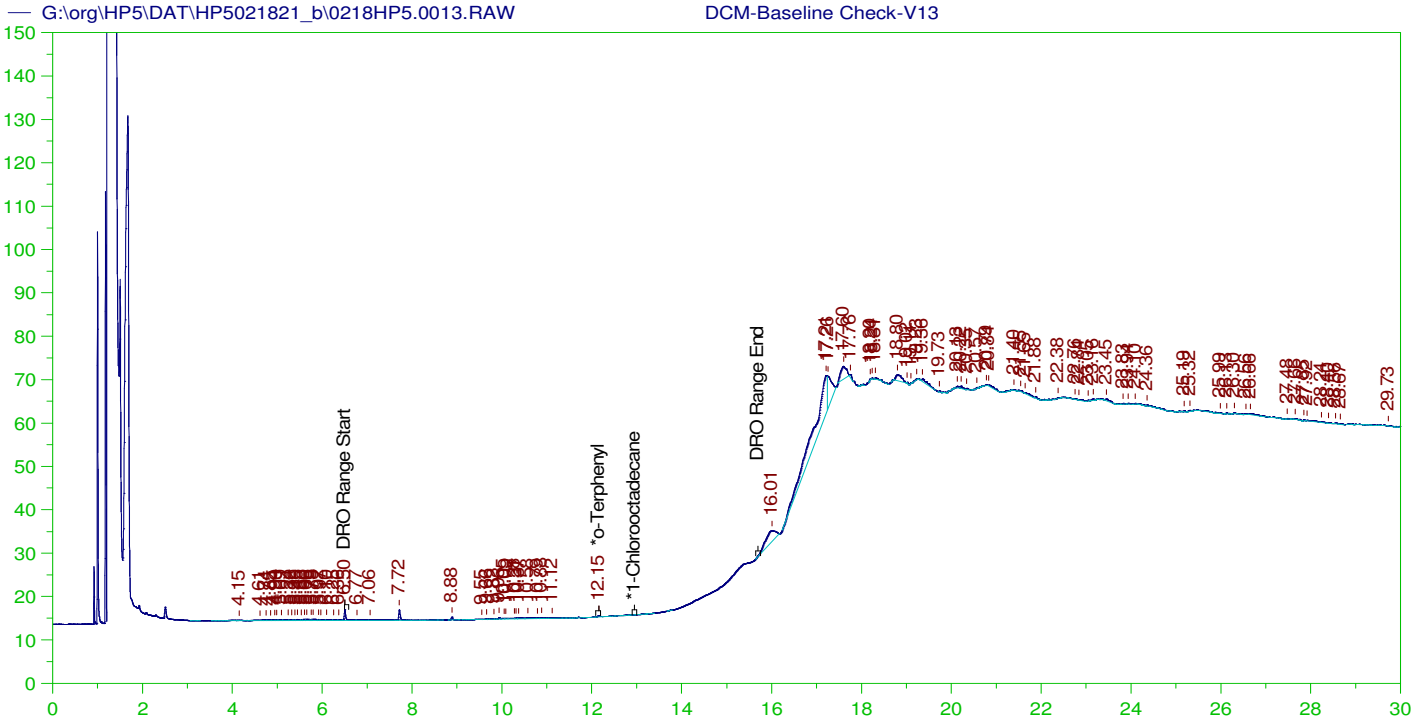

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0012.RAW
Date & Time Acquired: 2/18/2021 6:20:48 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:186033.1 DRO Amount: 6.31534
TEH Area:888262.2 TEH Amount: 30.1542




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

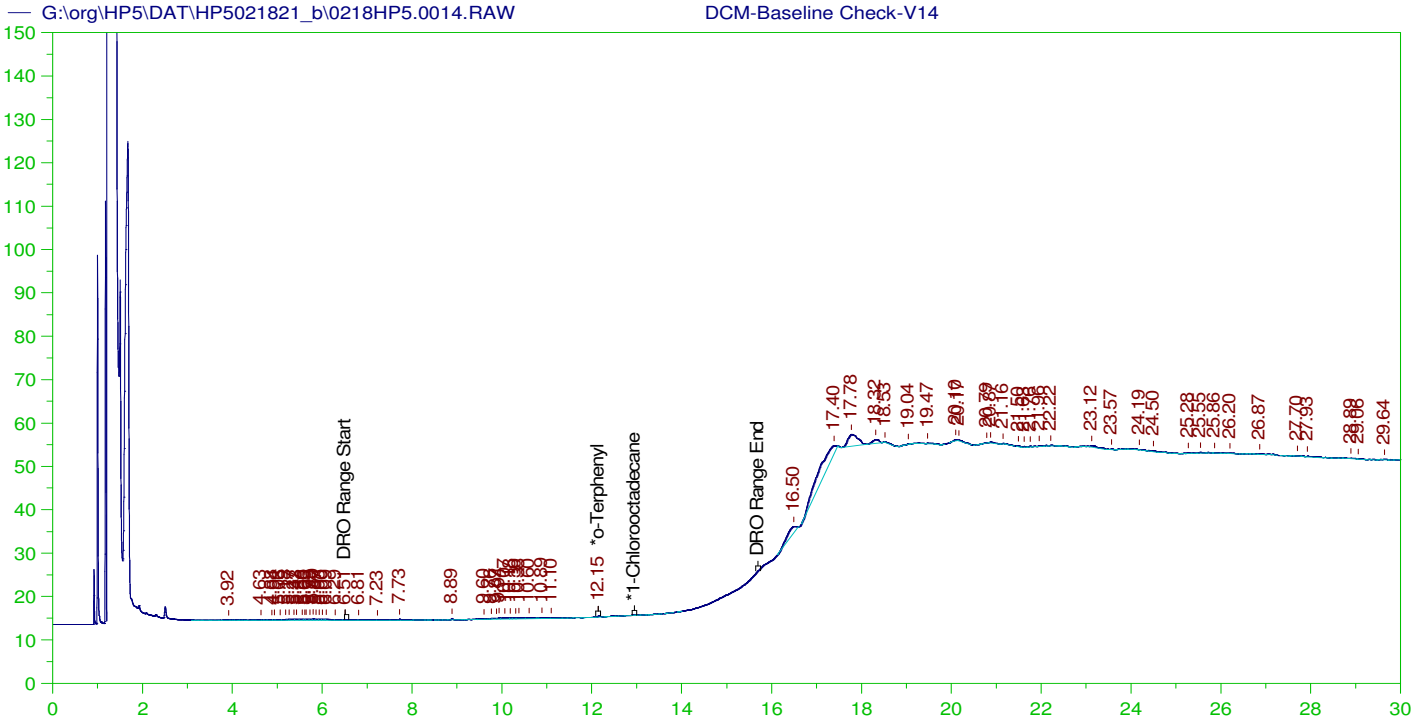
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0013.RAW
Date & Time Acquired: 2/18/2021 7:03:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.152 | 200. | .033 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:40824.55 DRO Amount: 1.385888
TEH Area:476705.3 TEH Amount: 16.18291

G:\org\HP5\dat\HP5021821_b\Review\013_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

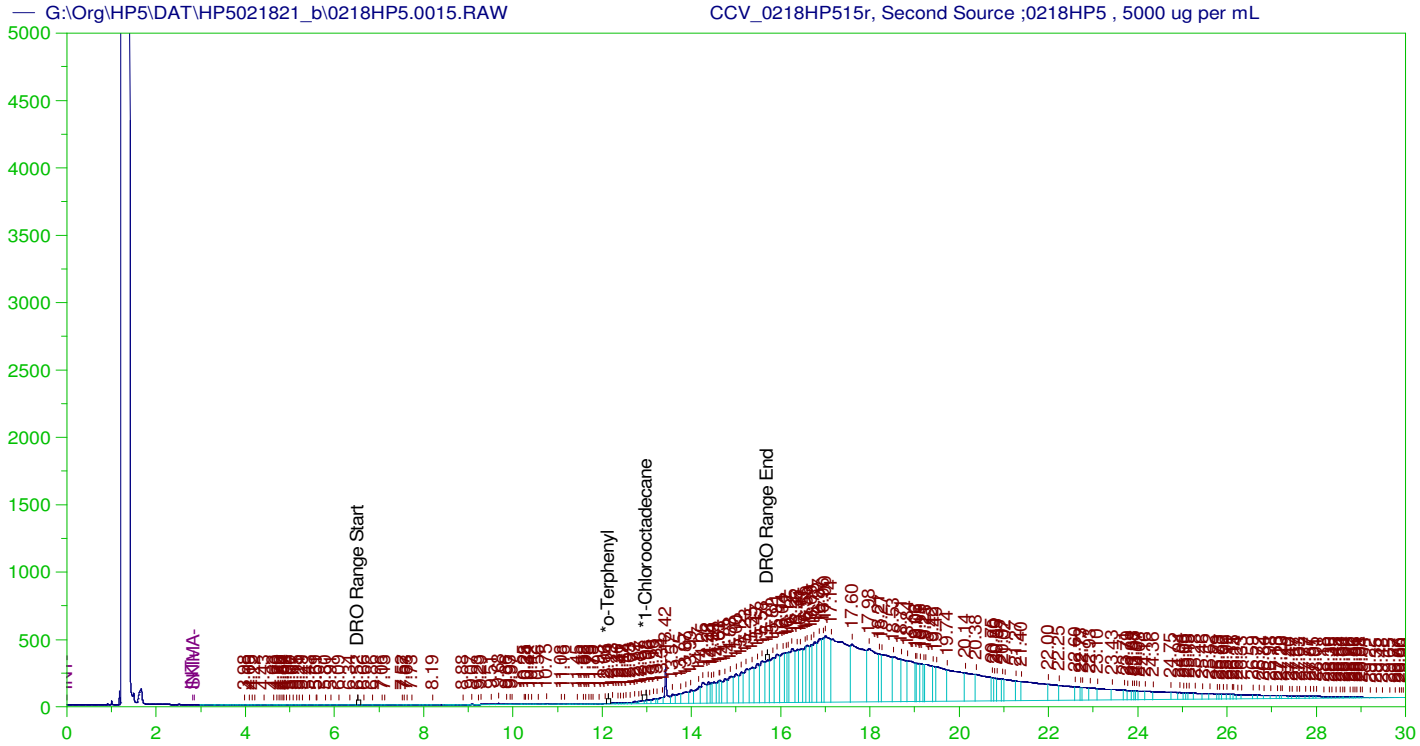
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0014.RAW
Date & Time Acquired: 2/18/2021 7:45:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.148 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.949 | 200. | . | . | - |

DRO Area:30445.24 DRO Amount: 1.033537
TEH Area:297634.4 TEH Amount: 10.10392

G:\org\HP5\dat\HP5021821_b\Review\014_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL
Raw File: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW
Date & Time Acquired: 2/18/2021 8:27:37 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | . | .19 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | - |

DRO Area:2.558549E+07 DRO Amount: 0.8964027
TEH Area:1.562544E+08 TEH Amount: 5.474465

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5.47 | .11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | . | .19 | 85-115 |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\015_CCV_0218HP515r_DR_OIL-021811-AA-L0.xls

| Write Sequence | Data File | Sample Nan | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis. |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis. |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.09.20 13:12:26 -06:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/11/2021 11:55:04 A**

Prep Batch **160213** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/12/2021 2:15:00 P**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MB-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| Start time: 12:16 PM, 10/11/2021. End time: 10/12/2021 at 7:00 AM. SGT was carried out on remainder of 0.9 mL sample by ALN on 10/14/2021. | | | | | | | | | | |
| LCS-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| LCS-RRO-160213 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/11/2021 | 10/12/2021 |
| All bottles were completely used and disposed of. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000957 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001AMS | Drinking Water | 2 | 500 | 0 | 0 | 1.00 | 0.002 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-001AMSD | Drinking Water | 2 | 500 | 0 | 0 | 1.00 | 0.002 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2.Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002AMS-RRO | Drinking Water | 2 | 515 | 0 | 0 | 1.00 | 0.00194 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100827-002AMSD-RRO | Drinking Water | 2 | 515 | 0 | 0 | 1.00 | 0.00194 | | 10/11/2021 | 10/12/2021 |
| Bottle 2/2. Clear, light sediment. SGT was carried out on remainder of sample 0.9 mL by ALN on 10/14/2021. | | | | | | | | | | |
| B21100824-001A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Client said to proceed with out of hold sample. | | | | | | | | | | |
| B21100827-003A | Drinking Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100828-001A | Drinking Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Lines 12-13 Start time: 12:47 PM, 10/11/2021. End time: 10/12/2021 at 7:00 AM. | | | | | | | | | | |
| B21100828-002A | Drinking Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21100834-001A | Ground Water | 2 | 1010 | 0 | 0 | 1.00 | 0.00099 | | 10/11/2021 | 10/12/2021 |
| Bottle 1/2. Clear. Lines 14-16 Start time: 3:21 PM, 10/11/2021. End time: 10/12/2021 at 9:25 AM | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14354 | Dichloromethane EC119 | 8/3/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 10/10/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | all QC | 5g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/11/2021 11:55:04 A**

Prep Batch **160213** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/12/2021 2:15:00 P**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| B21100834-002A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/11/2021 | 10/12/2021 |
| B21100834-003A<br>Bottle 1/2. Clear. | Aqueous | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/11/2021 | 10/12/2021 |

| Number | Reagent Name | Exp Date | |
|---|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 | |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 | |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 | |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 | |
| 14354 | Dichloromethane EC119 | 8/3/2023 | |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO210827C | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211004 14244 | DCM RINSED FILTER PAPER | all | 1 | 7/21/2023 |
| Sulfate 10/10/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| SG211004(13376) | Baked Silica Gel | all QC | 5g | 2/28/2030 |
| DRO210721A | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*13-Oct-21*

**Run ID** GCFID-HP5-B_211011B

**Run Start Date:** 10/11/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211005A | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767356 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/13/2021 12:1 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.059366 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2131862 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.31846 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767357 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 12:5 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.017043 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.226186 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767358 | CCV_1011HP55 | HC-8015-DRO- | CCV | | 10/13/2021 1:38: | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.79665 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 105% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.35982 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.220412 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767359 | LCS-160213 | HC-8015-DRO- | LCS-DOD | | 10/13/2021 3:47: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.25644 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 102% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.46345 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 110% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2109474 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767360 | MB-160213 | HC-8015-DRO- | MBLK | | 10/13/2021 4:29: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0749 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.221817 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 111% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767361 | B21100824-001 | HC-8015-DRO- | SAMP | | 10/13/2021 5:12: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0313208 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.190907 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 100% | 56 | 125 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.190907 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767362 | B21100827-001 | HC-8015-DRO- | SAMP | | 10/13/2021 6:38: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.2248985 | | 0 | 0 | 0 | 0.0372273 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.17043886 | | 0 | 0 | 0 | 0.0841203 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.6724572 | | 0 | 0 | 0 | 0.0716793 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1375347 | | 0.1914 | 0 | 0 | 0.0004106 | 0.002 | 0 | 72% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767363 | B21100827-002 | HC-8015-DRO- | SAMP | | 10/13/2021 8:47: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.2302286 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.16414309 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.6783934 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1010864 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 53% | 56 | 125 | 0% | S |
| TEH(Oil Range) | X | mg/L | | 0.44483149 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767364 | MARKER_1011 | HC-8015-DRO- | SAMP | | 10/13/2021 10:1 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3211.686 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3928.242 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 207.1025 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103551% | 50 | 150 | 0% | S |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3211.686 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

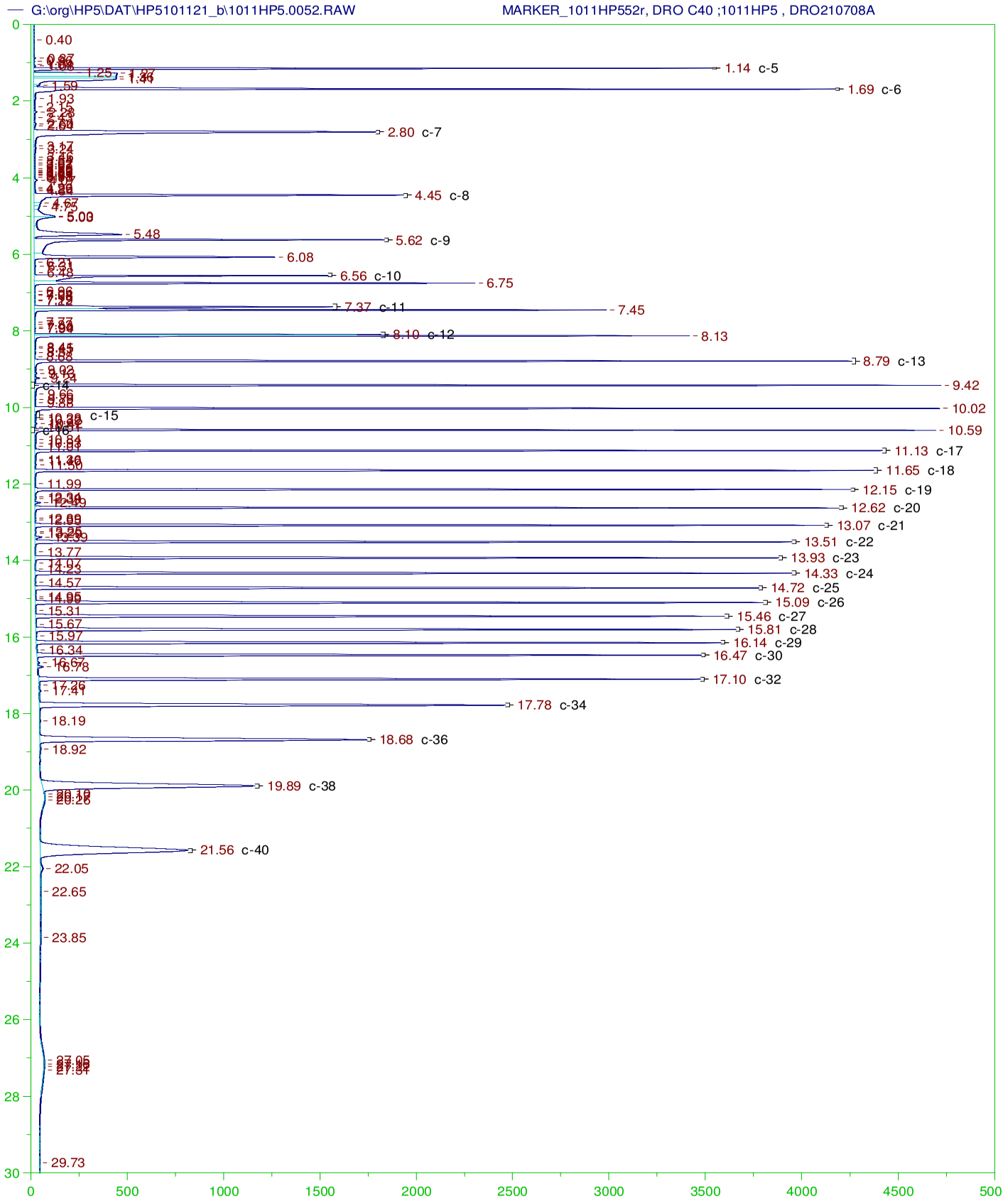
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767365 | CCV_1011HP56 | HC-8015-DRO- | CCV | | 10/13/2021 10:5 | 1 | R368594 | | 0 | 0 | |

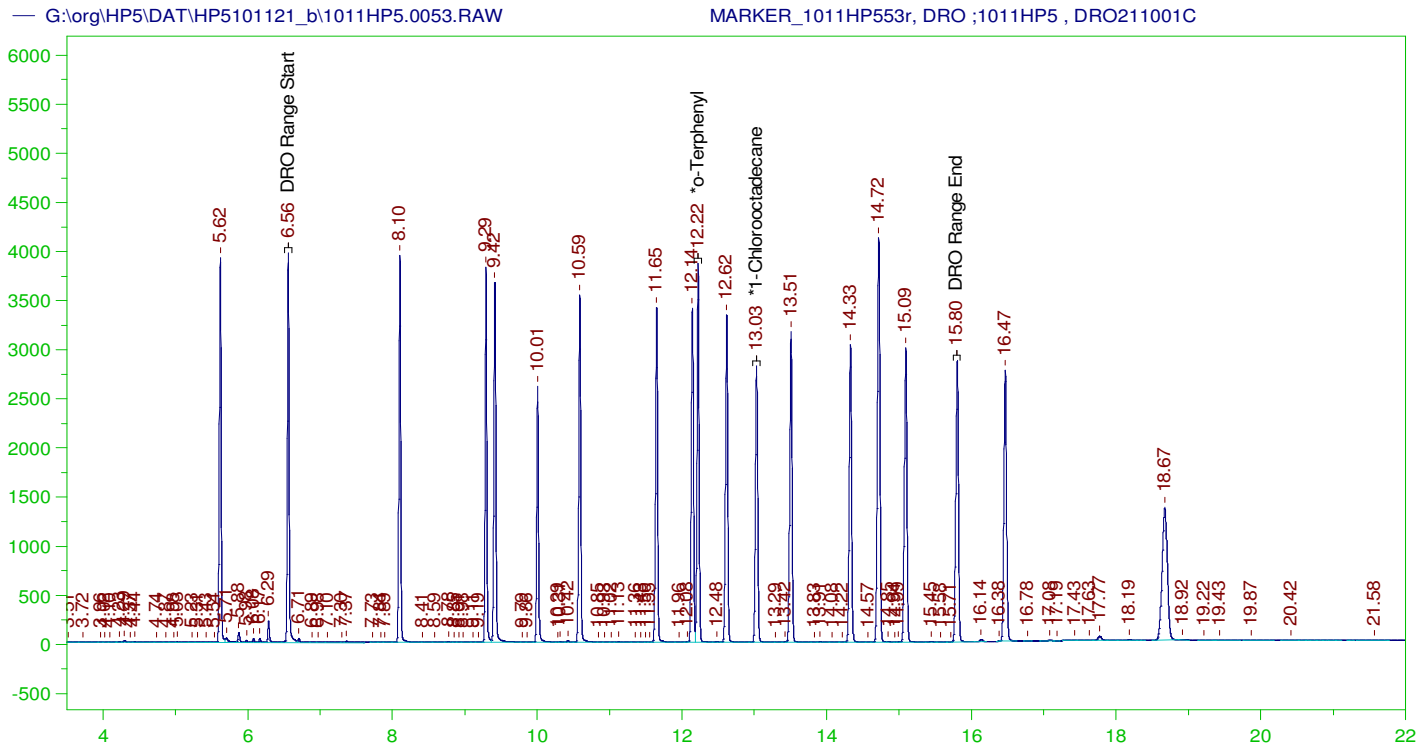
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.045149 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 101% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2240021 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 112% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14767366 | CCV_1011HP56 | HC-8015-DRO- | CCV | | 10/13/2021 11:3 | 1 | R368594 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.93329 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.4674 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 103% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2084819 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.56r | DCM-Baseline Check-V56 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.57r | DCM-Baseline Check-V57 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.58r | LCS-160213 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.59r | MB-160213 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.60r | B21100824-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.61r | DCM-Baseline Check-V61 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.62r | B21100827-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1045 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.64r | DCM-Baseline Check-V64 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.65r | B21100827-002A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.66r | MARKER_1011HP566r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.67r | MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.68r | CCV_1011HP568r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.69r | CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\org\HP5\DAT\HP5101121_b\1011HP5.0052.RAW
MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A
0.40
1.14 c-5
1.69 c-6
2.80 c-7
4.45 c-8
5.48
5.62 c-9
6.08
6.56 c-10
6.75
7.37 c-11
7.45
8.10 c-12
8.13
8.79 c-13
9.42
10.02
10.59
11.13 c-17
11.65 c-18
12.15 c-19
12.62 c-20
13.07 c-21
13.51 c-22
13.93 c-23
14.33 c-24
14.72 c-25
15.09 c-26
15.46 c-27
15.81 c-28
16.14 c-29
16.47 c-30
17.10 c-32
17.78 c-34
18.68 c-36
19.89 c-38
21.56 c-40
29.73
0
500
1000
1500
2000
2500
3000
3500
4000
4500
500
G:\org\HP5\dat\HP5101121_b\Review\052_MARKER_1011HP552r_CSC211011.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

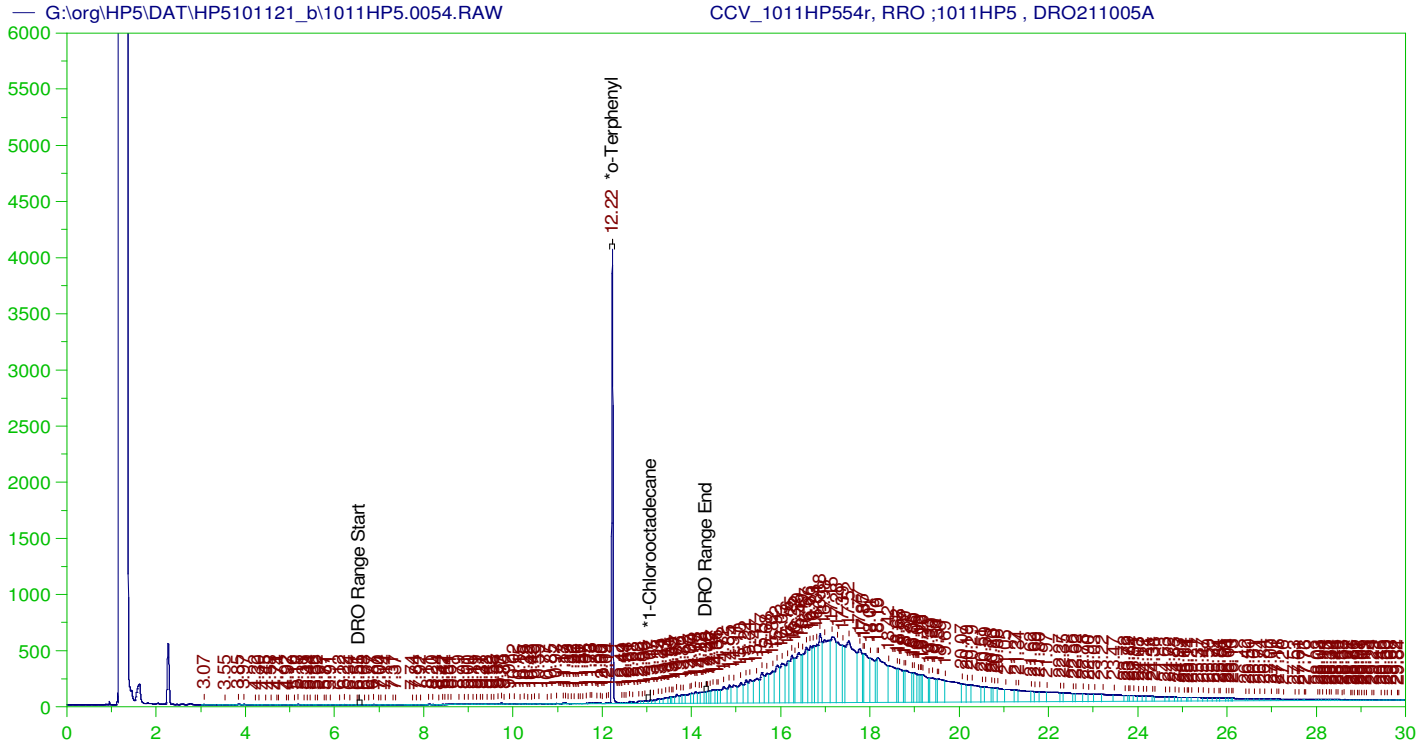
Sample Name: MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0053.RAW
Date & Time Acquired: 10/13/2021 12:12:14 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 213.186 | 106.59 | - |
| *1-Chlorooctadecane | 13.031 | 200. | 172.732 | 86.37 | - |

DRO Area:9.775298E+07 DRO Amount: 3318.46
TEH Area:1.195781E+08 TEH Amount: 4059.366

G:\org\HP5\dat\HP5101121_b\Review\053_MARKER_1011HP553r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | - |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | - |

DRO Area:6639596 DRO Amount: 232.6221
TEH (Oil Range) Area:1.431985E+08 TEH (Oil Range) Amount: 5017.043

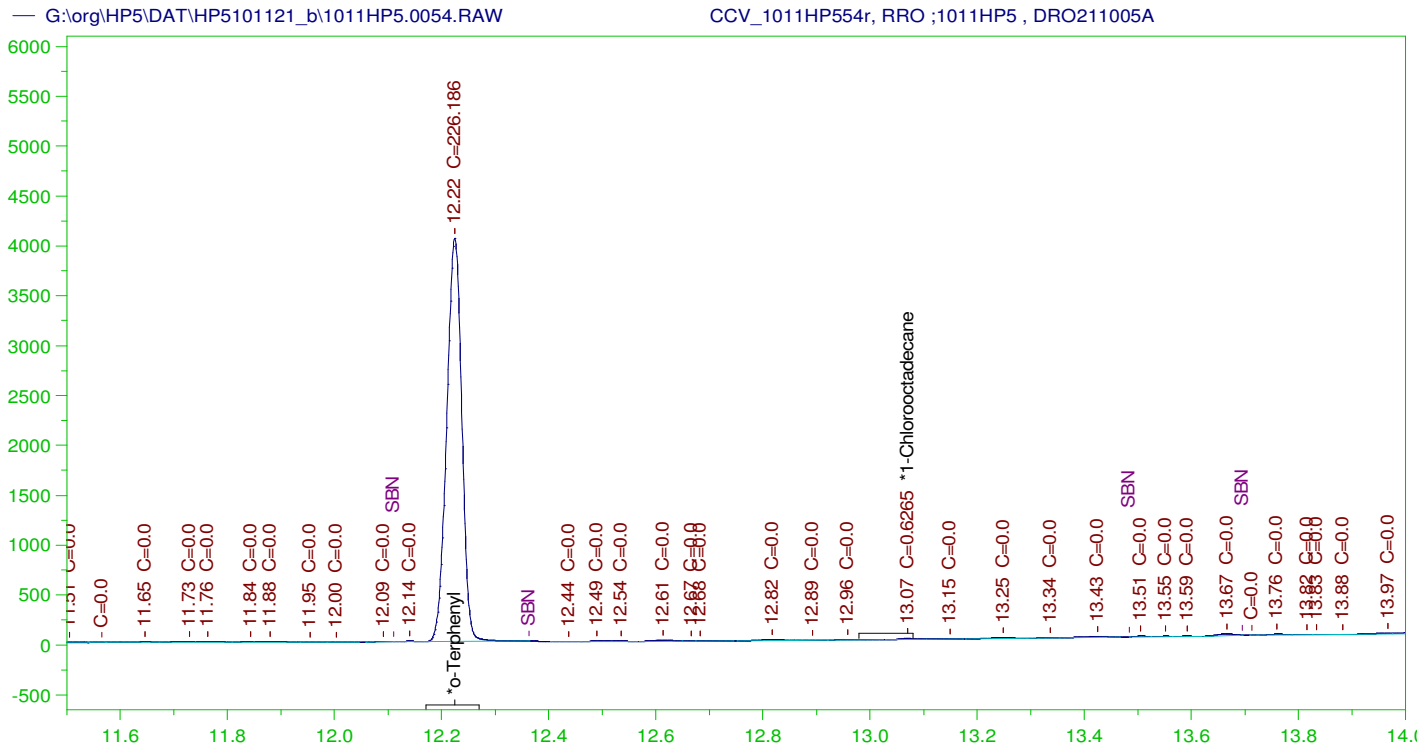
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5017.04 | 100.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 230.206 | 115.1 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | 4.231 | 2.12 | 85-115 |

AMN 10/20/2021

G:\org\HP5\dat\HP5101121_b\Review\054_CCV_1011HP554r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP554r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW
Date & Time Acquired: 10/13/2021 12:55:17 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | - |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | - |

DRO Area:914620.3 DRO Amount: 32.04426
TEH Area:2179492 TEH Amount: 76.35976

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0054.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 76.36 | 1.53 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.224 | 200. | 226.186 | 113.09 | 85-115 |
| *1-Chlorooctadecane | 13.07 | 200. | .627 | .31 | 85-115 |

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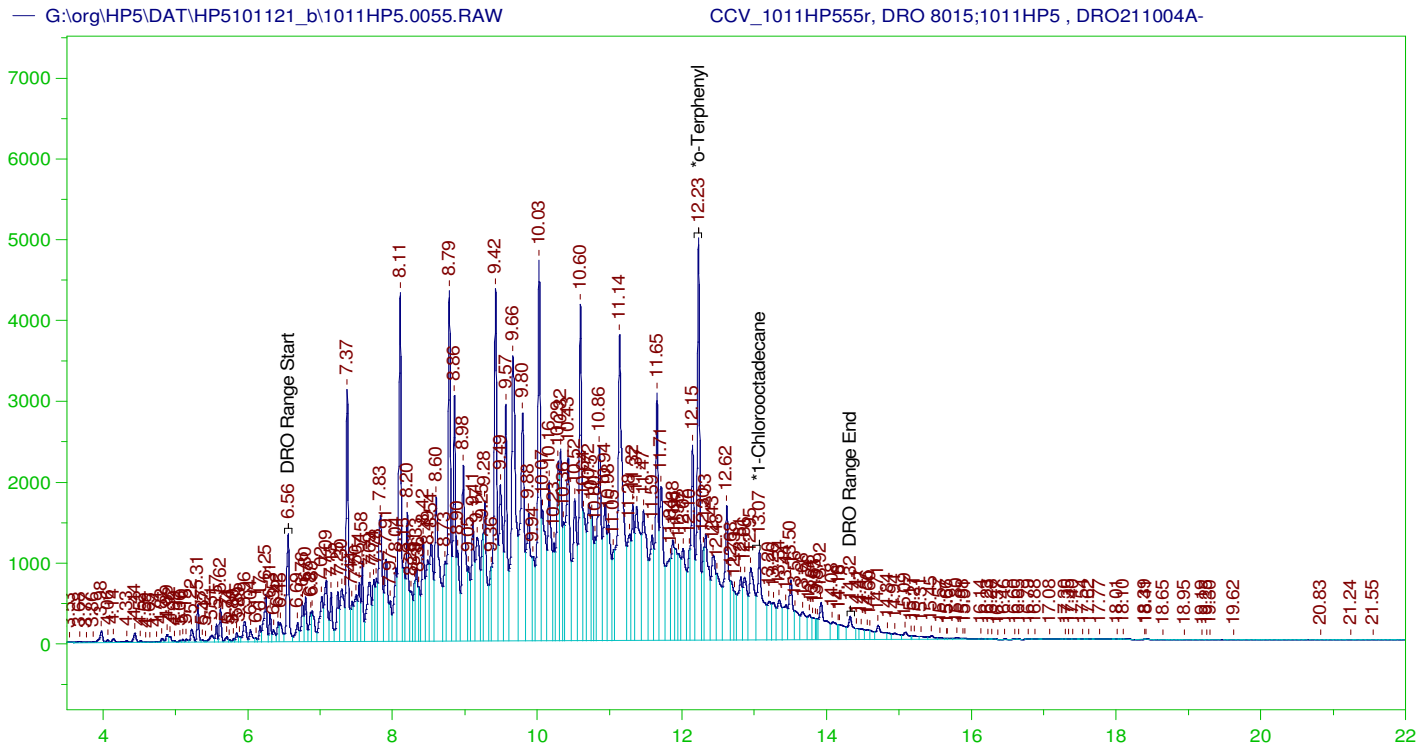


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | - |

DRO Area:4.653271E+08 DRO Amount: 15796.65
TEH Area:4.819167E+08 TEH Amount: 16359.82

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16359.82 | 109.07 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 356.254 | 178.13 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 160.717 | 80.36 | 85-115 |

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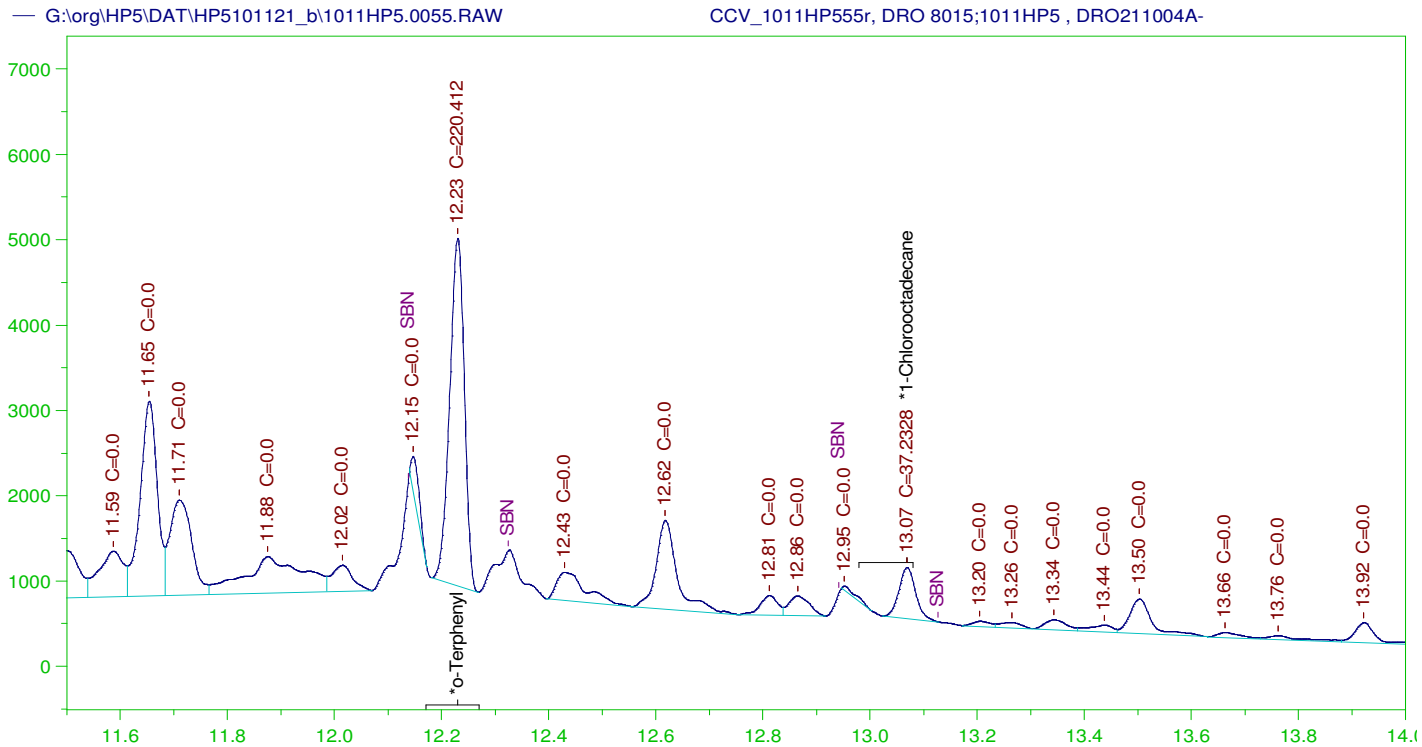


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW
Date & Time Acquired: 10/13/2021 1:38:19 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | - |

DRO Area:2.582346E+08 DRO Amount: 8766.394
TEH Area:2.681562E+08 TEH Amount: 9103.206

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9103.21 | 60.69 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 220.412 | 110.21 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 37.233 | 18.62 | 85-115 |

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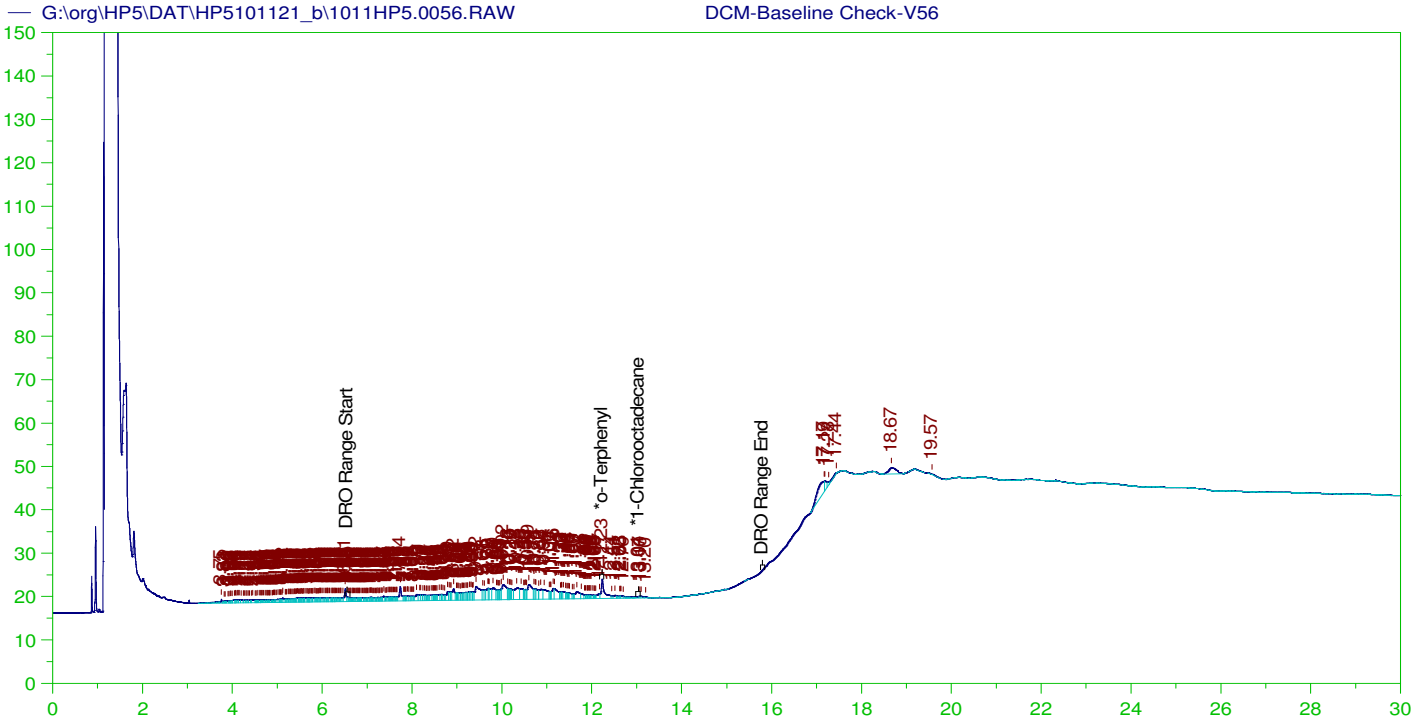



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

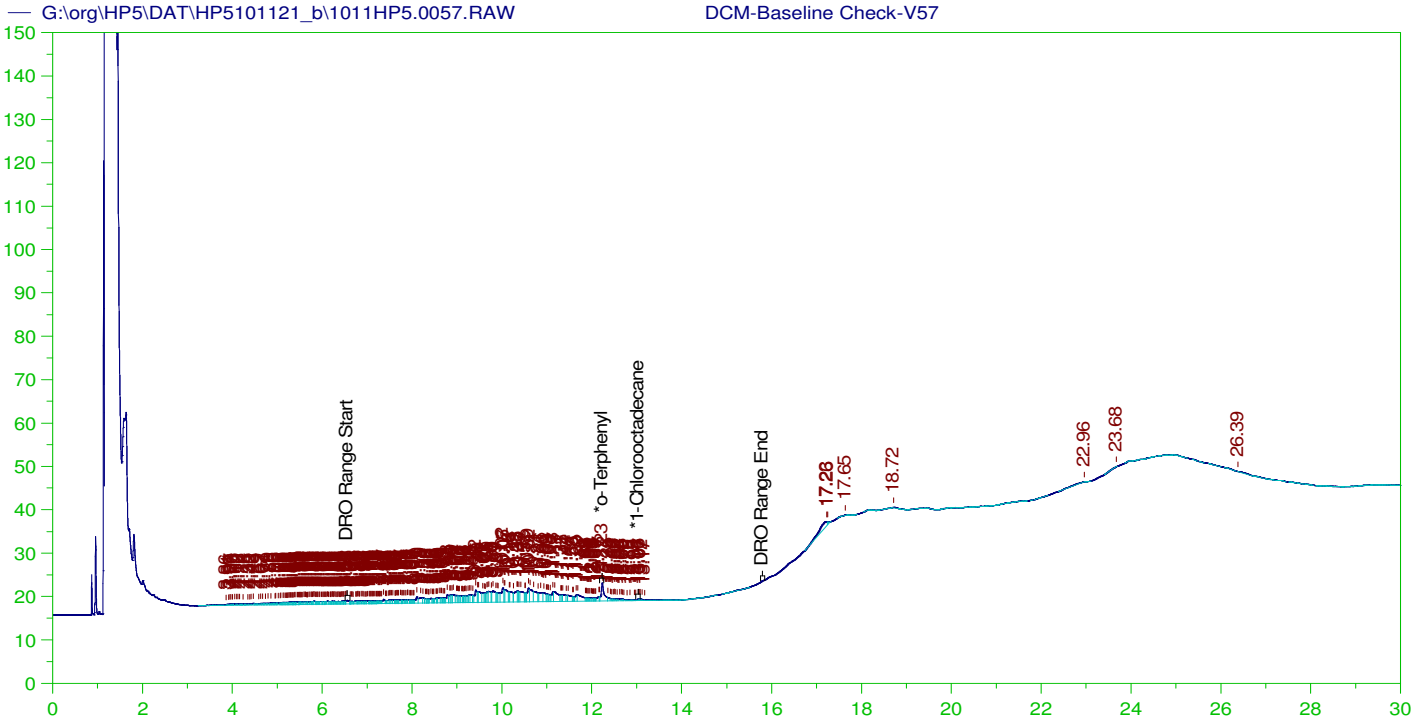
Sample Name: DCM-Baseline Check-V56
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0056.RAW
Date & Time Acquired: 10/13/2021 2:21:24 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.229 | 200. | .663 | .33 | - |
| *1-Chlorooctadecane | 13.04 | 200. | .027 | .01 | - |

DRO Area:569787.8 DRO Amount: 19.34282
TEH Area:773369.7 TEH Amount: 26.25389

G:\org\HP5\dat\HP5101121_b\Review\056_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V57
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0057.RAW
Date & Time Acquired: 10/13/2021 3:04:13 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | .559 | .28 | - |
| *1-Chlorooctadecane | 13.035 | 200. | .033 | .02 | - |

DRO Area:519320.5 DRO Amount: 17.62959
TEH Area:643196.8 TEH Amount: 21.83486

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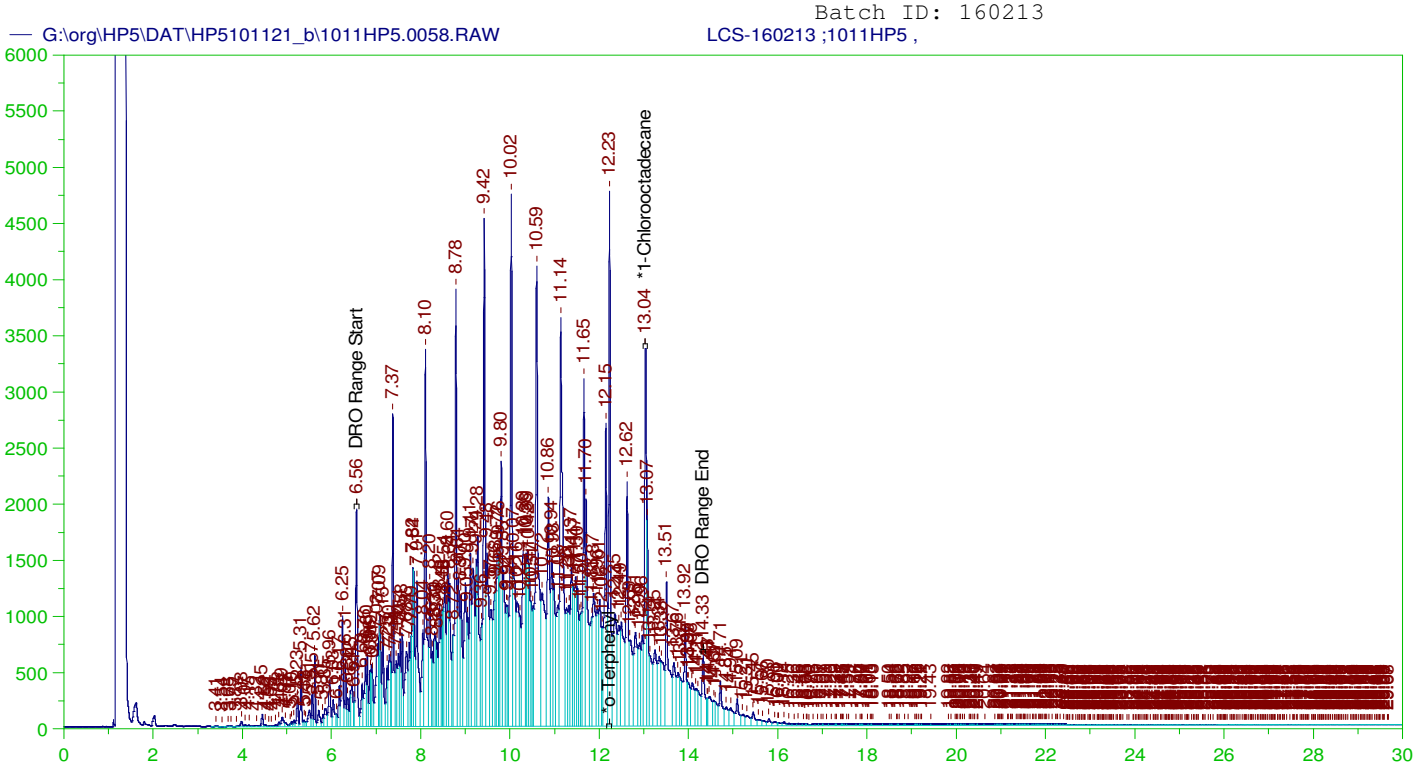
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0058.RAW
Date & Time Acquired: 10/13/2021 3:47:06 AM
Method File: G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .364 | 181.98 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .265 | 132.56 | - |

DRO Area:4.494139E+08 DRO Amount: 15.25644
TEH Area:4.849694E+08 TEH Amount: 16.46345

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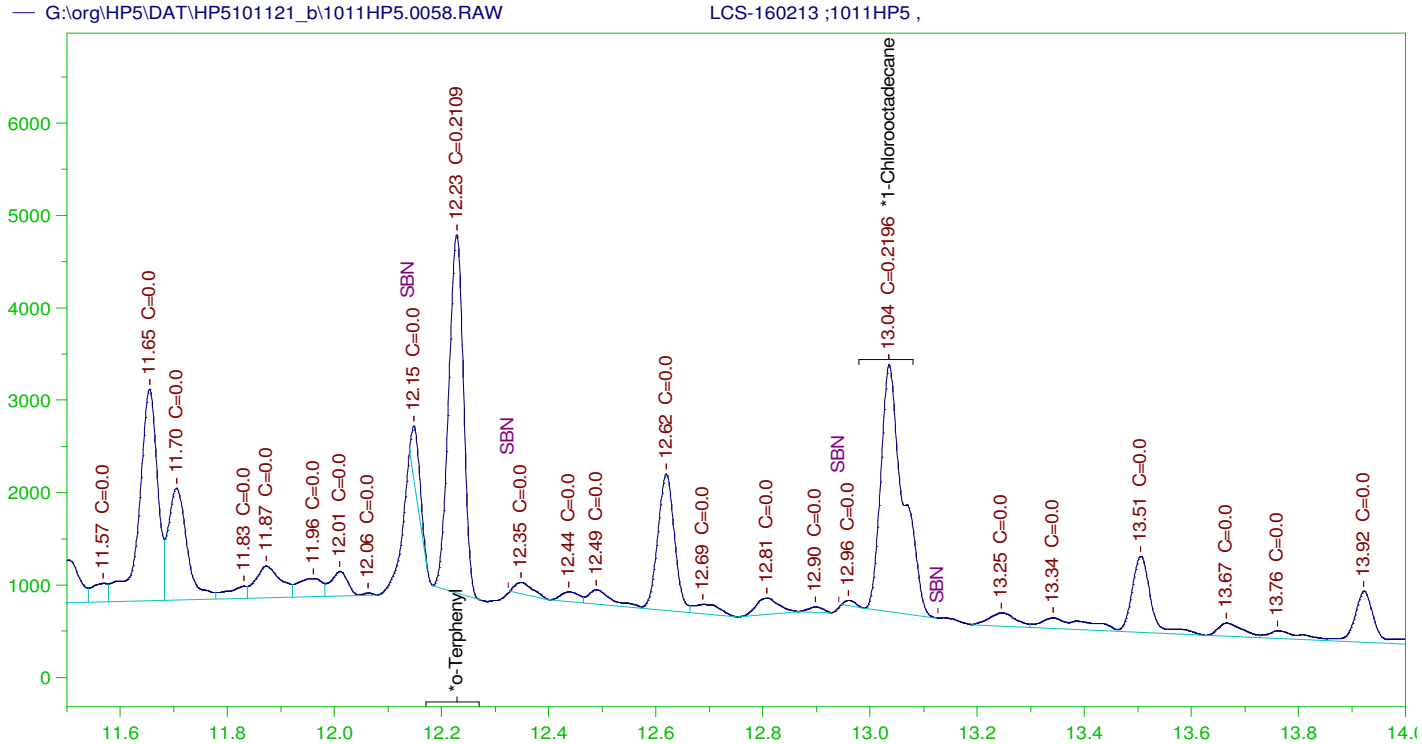
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0058.RAW
Date & Time Acquired: 10/13/2021 3:47:06 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.228 | .2 | .211 | 105.47 | - |
| *1-Chlorooctadecane | 13.035 | .2 | .22 | 109.8 | - |

DRO Area:2.202292E+08 DRO Amount: 7.47621
TEH Area:2.340806E+08 TEH Amount: 7.946428

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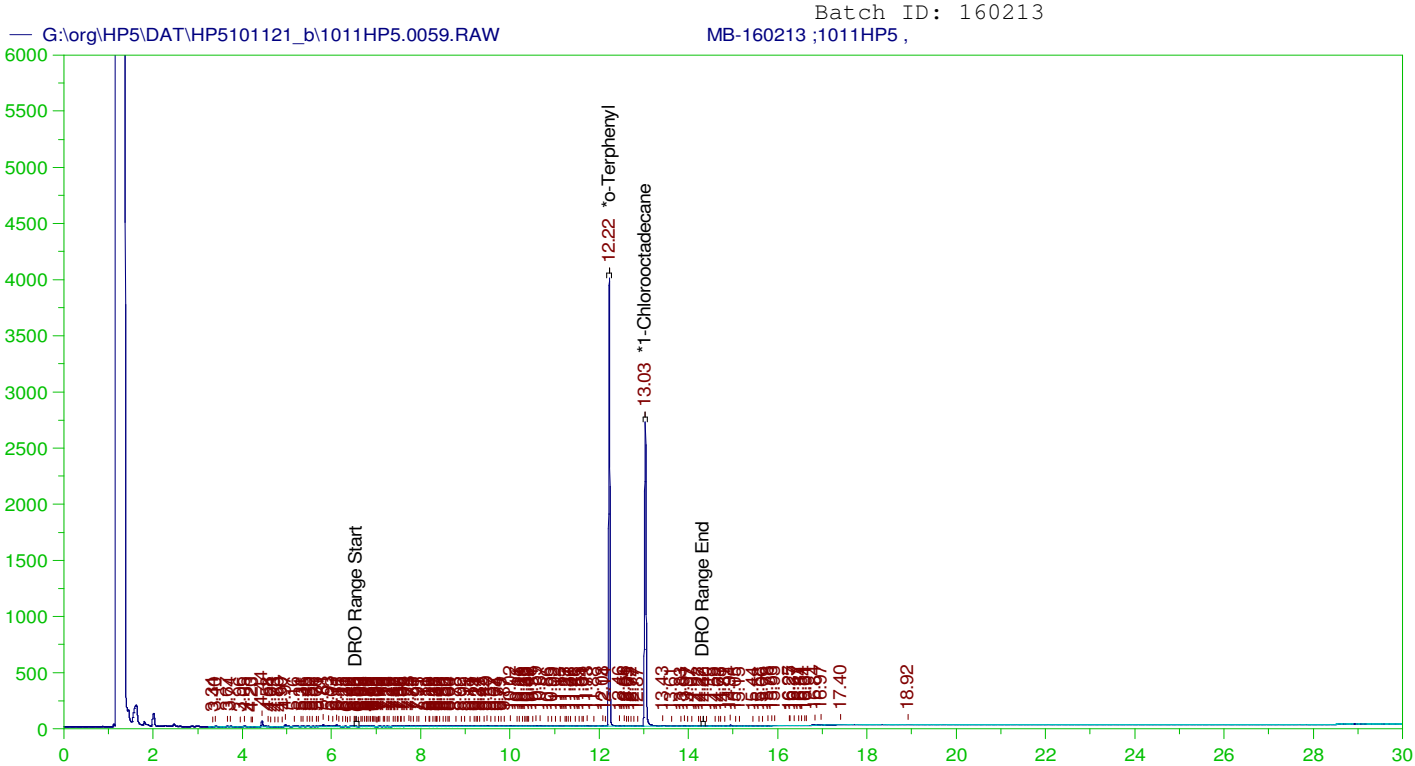
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0059.RAW
Date & Time Acquired: 10/13/2021 4:29:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.222 | .2 | .222 | 110.91 | - |
| *1-Chlorooctadecane | 13.03 | .2 | .175 | 87.29 | - |

DRO Area:691525.5 DRO Amount: 0.0234755
TEH Area:1300256 TEH Amount: 4.414031E-02

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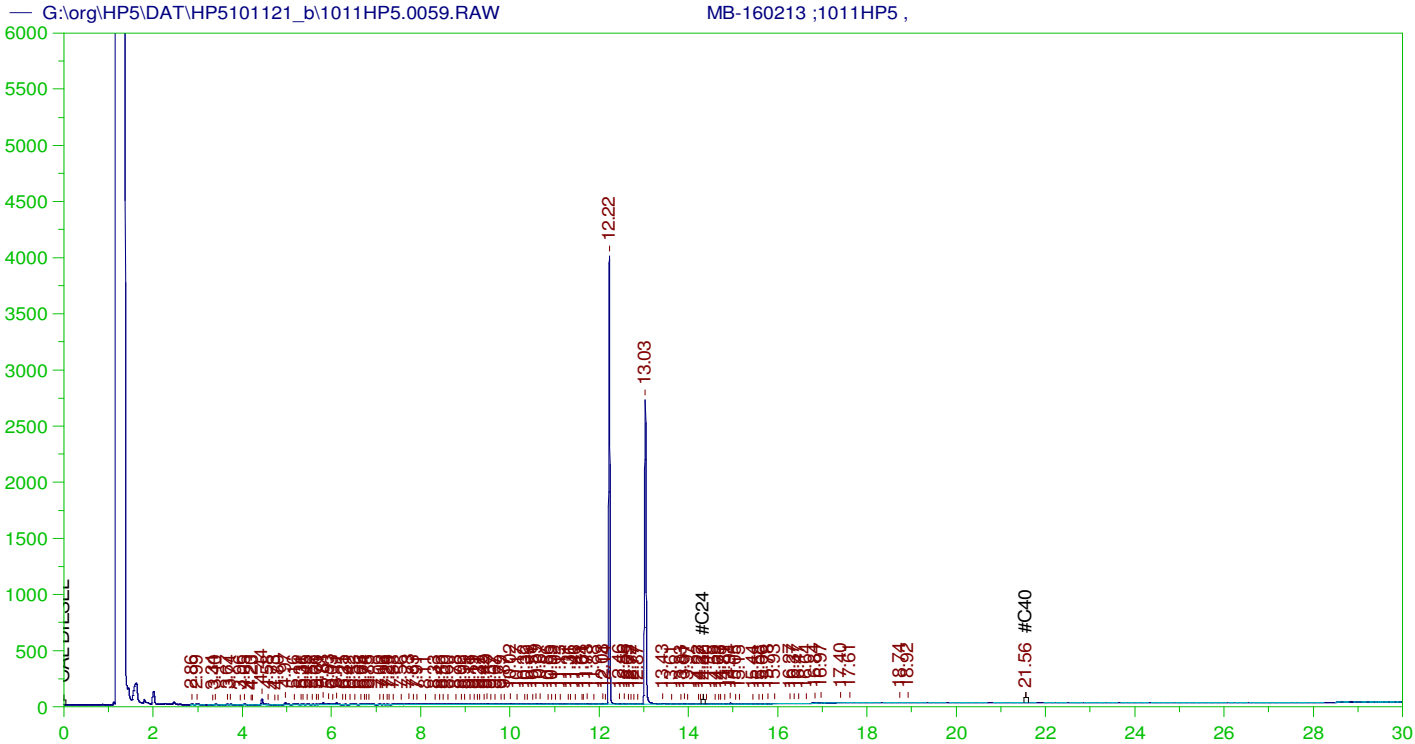


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160213 ;1011HP5 ,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0059.RAW
Date & Time Acquired: 10/13/2021 4:29:58 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:160534.3 RRO AMOUNT: 5.624414E-03

G:\org\HP5\dat\HP5101121_b\Review\059_MB-160213_DR_OIL-S-AJ-L%.xls

**ERH1778 (Pre-Chlorination RHSF)** Batch ID: 160213

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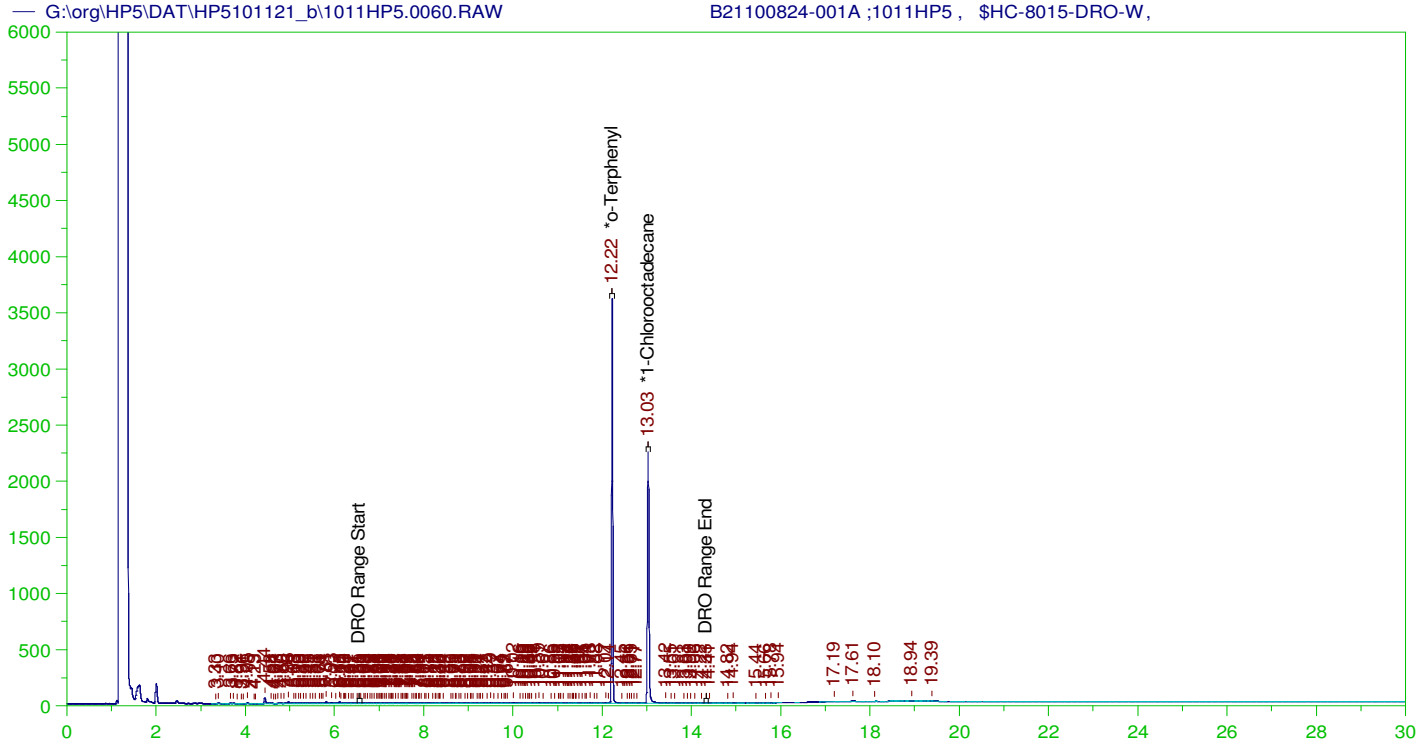


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100824-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW
Date & Time Acquired: 10/13/2021 5:12:46 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .191 | 100.23 | - |
| *1-Chlorooctadecane | 13.028 | .19 | .139 | 73.23 | - |

DRO Area:655430.4 DRO Amount: 2.119063E-02
TEH Area:1210697 TEH Amount: 3.914286E-02

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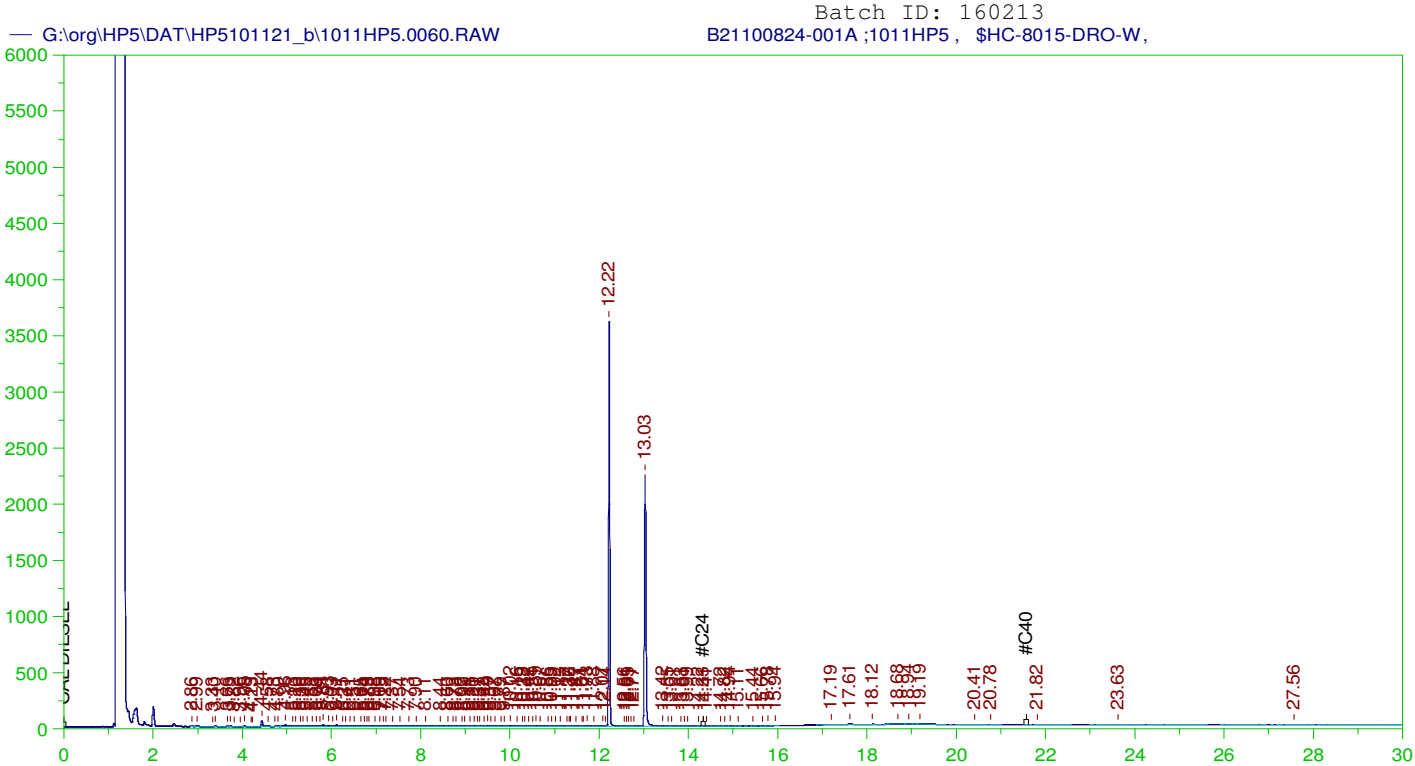
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100824-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0060.RAW
Date & Time Acquired: 10/13/2021 5:12:46 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:101816.1 RRO AMOUNT: 3.397321E-03

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**ERH1767 (RHMW12A)** Batch ID: 160213

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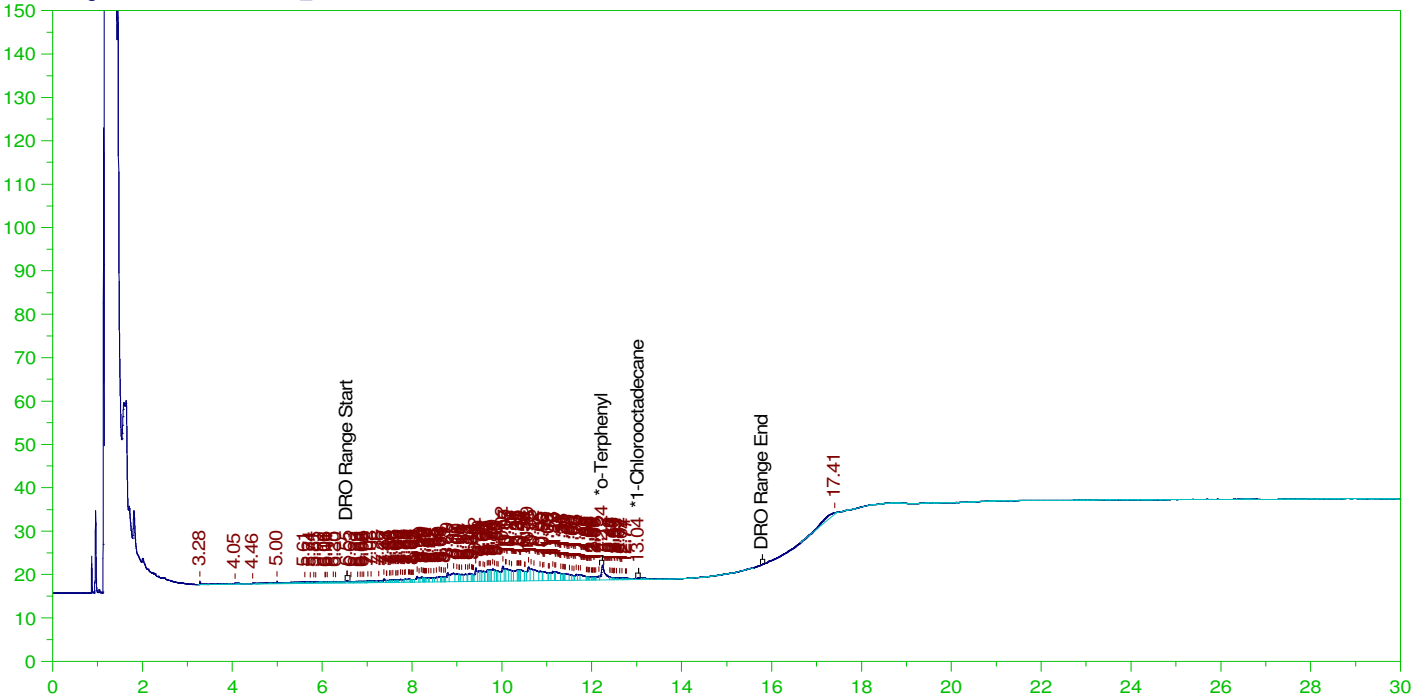



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0061.RAW
Date & Time Acquired: 10/13/2021 5:55:48 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

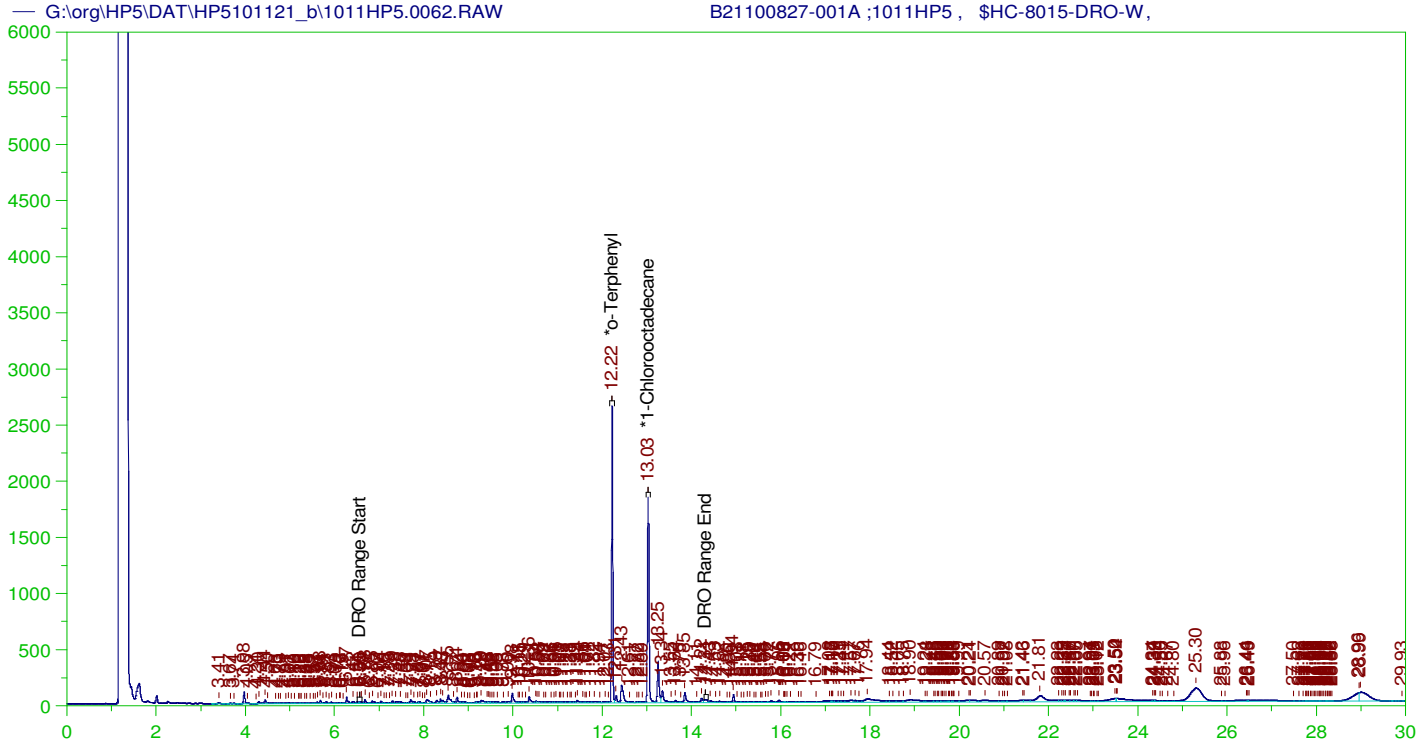
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.237 | .191 | .001 | .3 | - |
| *1-Chlorooctadecane | 13.037 | .191 | . | .03 | - |

DRO Area:486628.5 DRO Amount: 0.0158084
TEH Area:550572.7 TEH Amount: 1.788566E-02

G:\org\HP5\dat\HP5101121_b\Review\061_B21100827-001A_DR_8015-HS-LEXP.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW B21100827-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

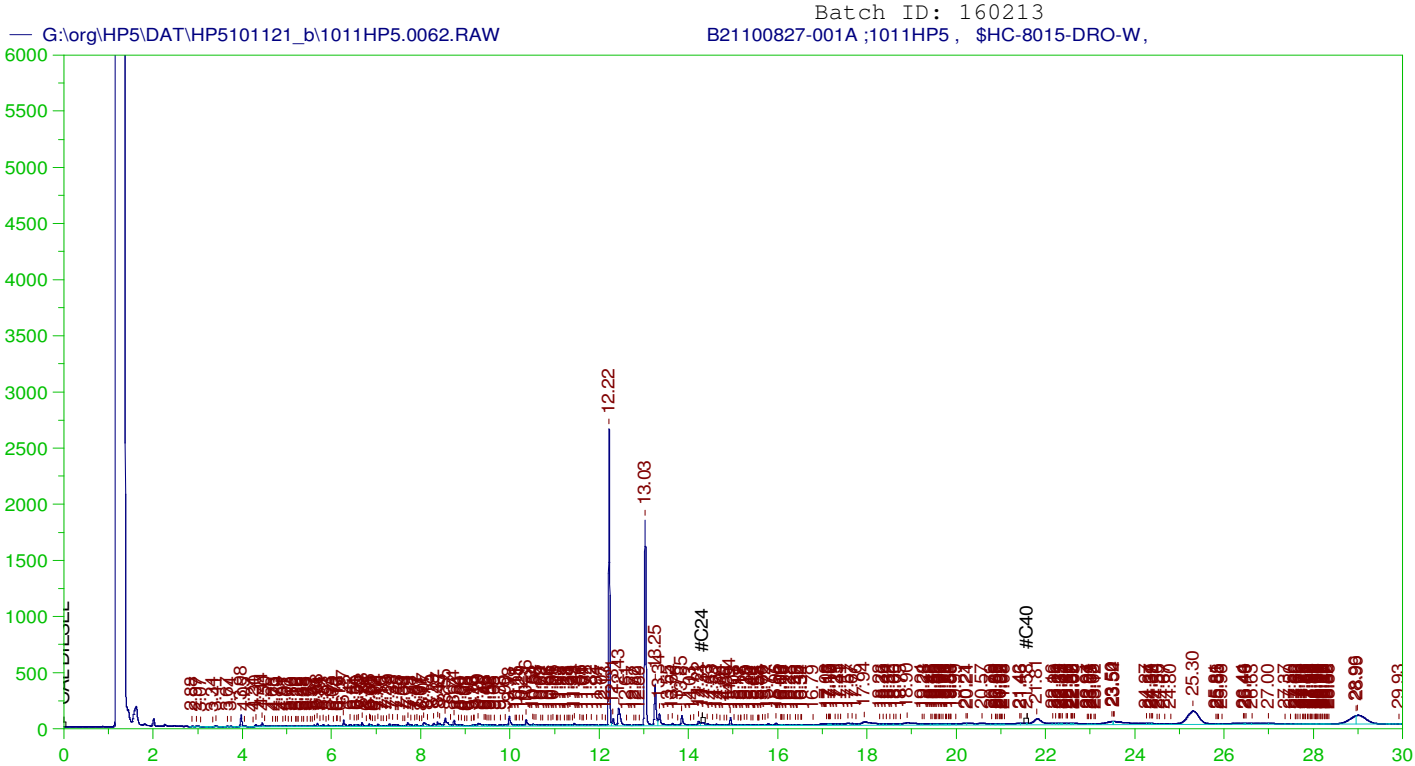
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.22 | .191 | .14 | 73.06 | - |
| *1-Chlorooctadecane | 13.028 | .191 | .111 | 58.04 | - |

DRO Area:6923030 DRO Amount: 0.2248985
TEH Area:2.070019E+07 TEH Amount: 0.6724572

G:\org\HP5\dat\HP5101121_b\Review\062_B21100827-001A_D3_8015-101162-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

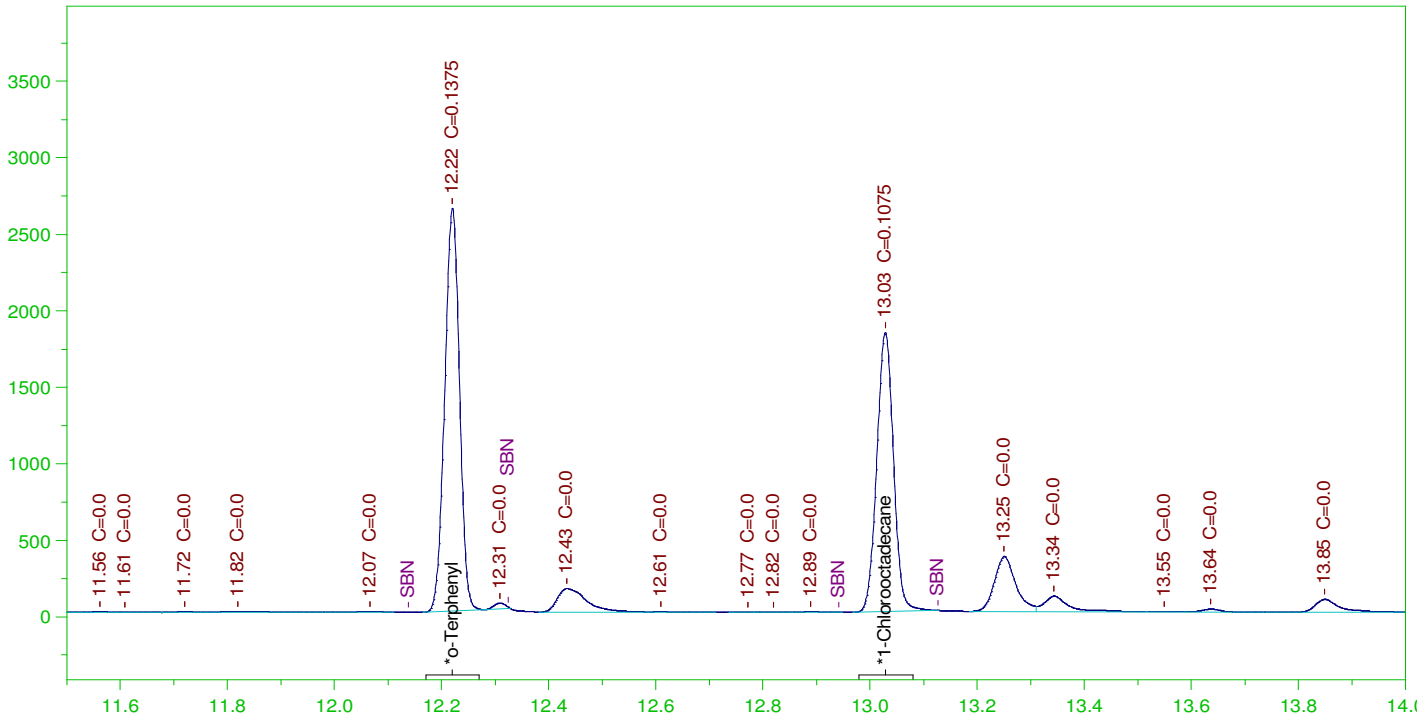
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:5083649 RRO AMOUNT: 0.1704389

**ERH1767 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW B21100827-001A ;1011HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

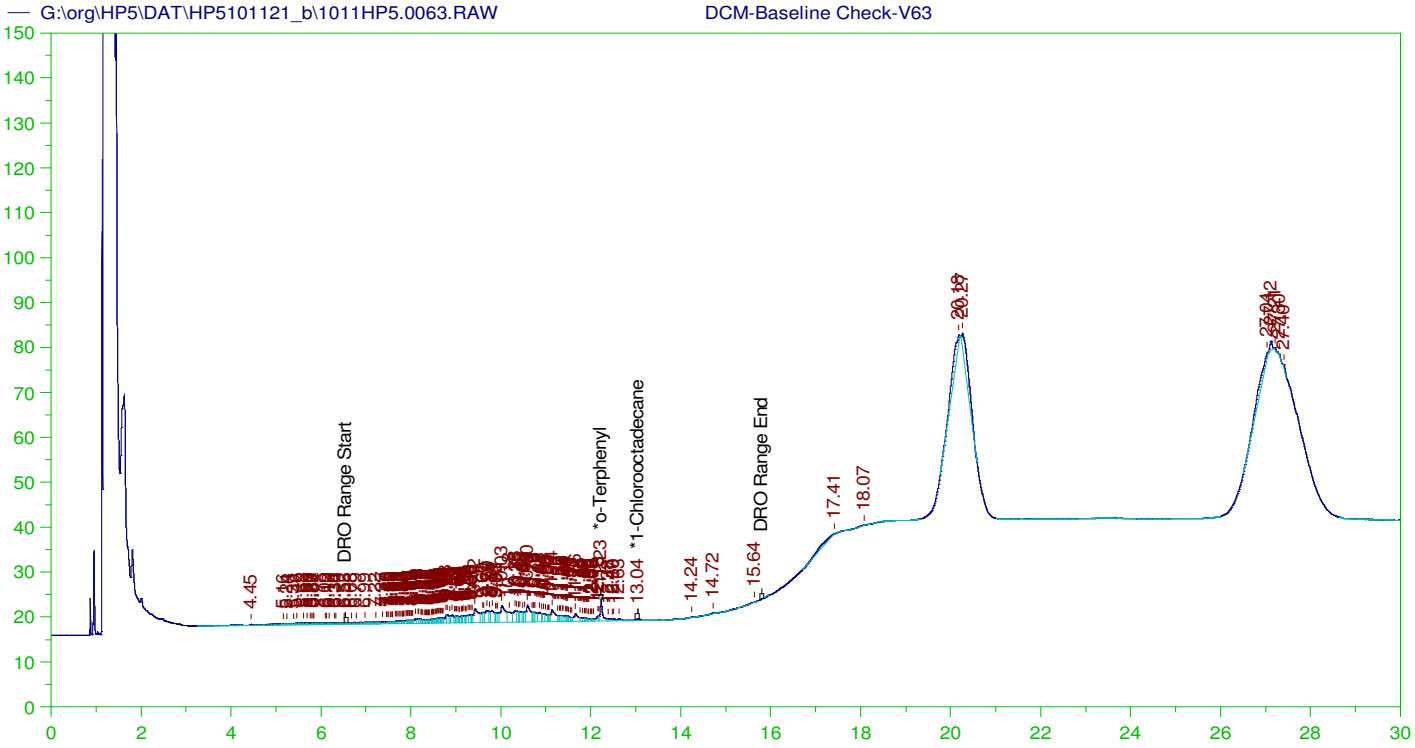
Sample Name: B21100827-001A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0062.RAW
Date & Time Acquired: 10/13/2021 6:38:52 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.22 | .191 | .138 | 71.86 | - |
| *1-Chlorooctadecane | 13.028 | .191 | .107 | 56.17 | - |

DRO Area:5915212 DRO Amount: 0.1921589
TEH Area:6878895 TEH Amount: 0.2234647

G:\org\HP5\dat\HP5101121_b\Review\062_B21100827-001A_DS_8015-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

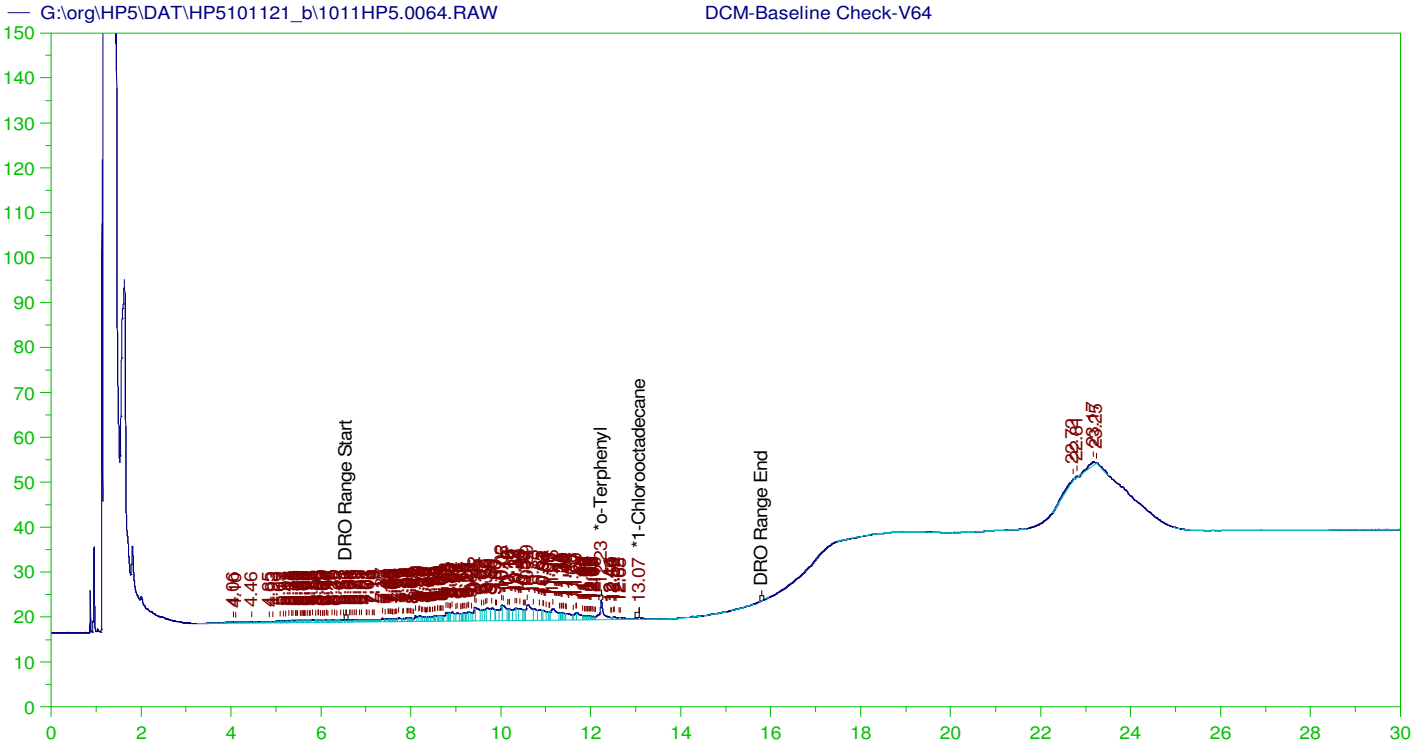
Sample Name: DCM-Baseline Check-V63
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0063.RAW
Date & Time Acquired: 10/13/2021 7:21:30 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.227 | 200. | .541 | .27 | - |
| *1-Chlorooctadecane | 13.044 | 200. | .092 | .05 | - |

DRO Area:461835.7 DRO Amount: 15.67812
TEH Area:700402.4 TEH Amount: 23.77685

G:\org\HP5\dat\HP5101121_b\Review\063_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V64
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0064.RAW
Date & Time Acquired: 10/13/2021 8:04:19 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | .767 | .38 | - |
| *1-Chlorooctadecane | 13.073 | 200. | .104 | .05 | - |

DRO Area:512970.4 DRO Amount: 17.41401
TEH Area:603912.3 TEH Amount: 20.50126

G:\org\HP5\dat\HP5101121_b\Review\064_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1772 (RHMW12A)** Batch ID: 160213

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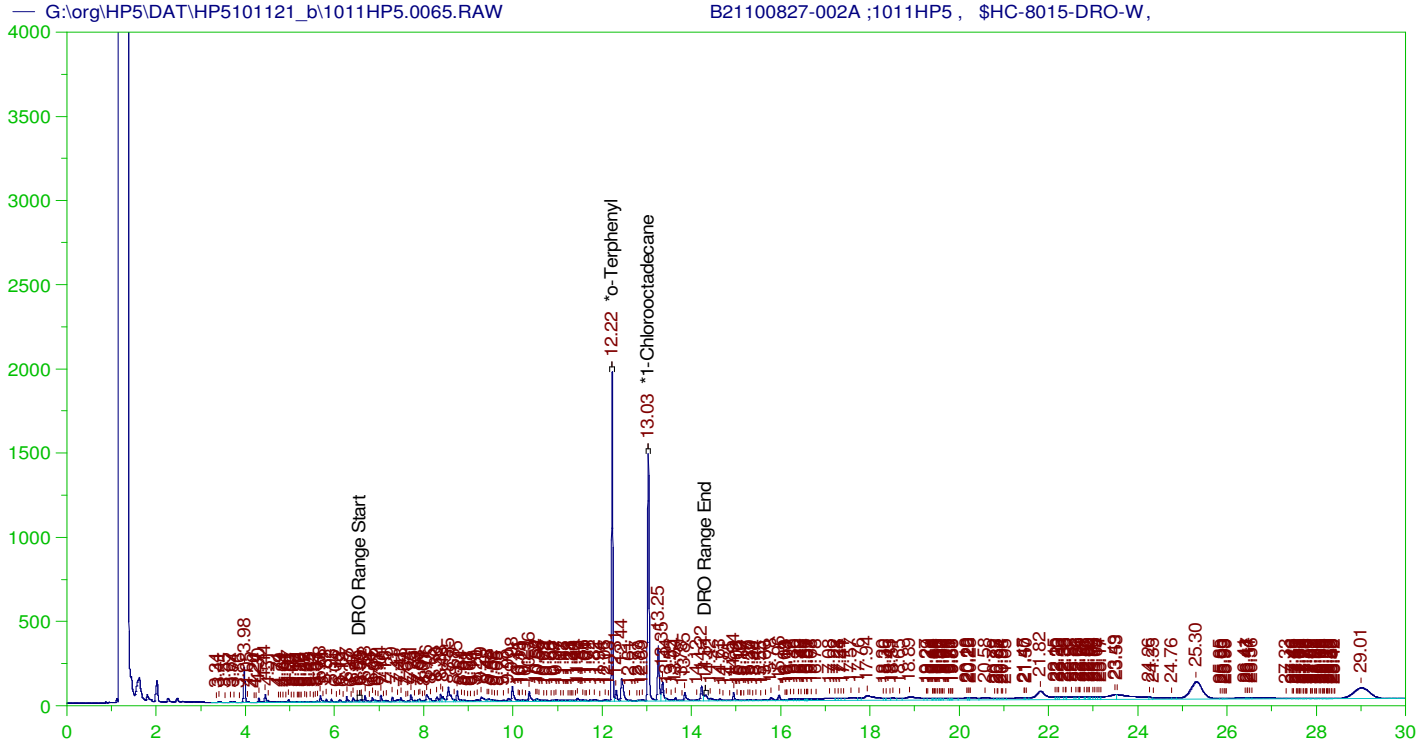



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

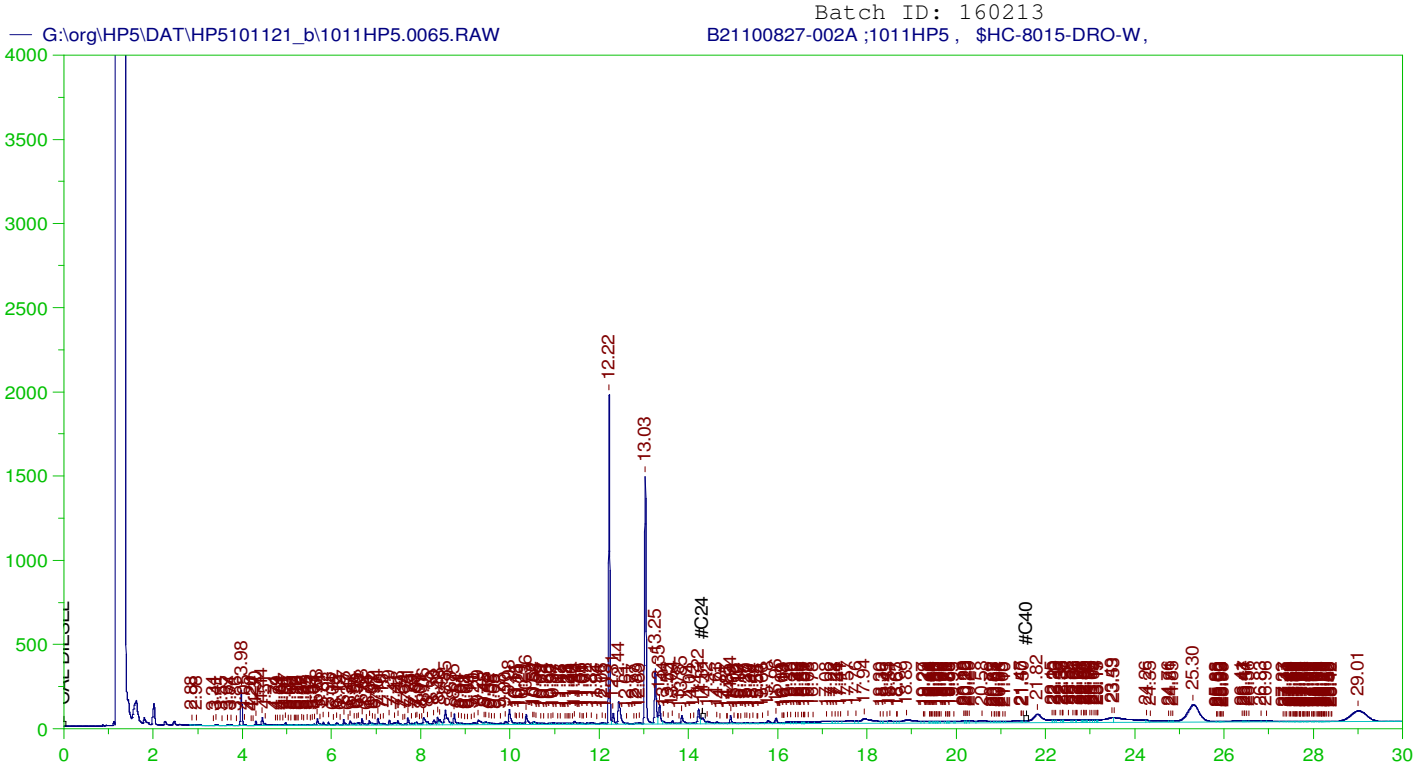
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .103 | 54.07 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .089 | 46.74 | - |

DRO Area:7121018 DRO Amount: 0.2302286
TEH Area:2.098284E+07 TEH Amount: 0.6783934

G:\org\HP5\dat\HP5101121_b\Review\065_B21100827-002A_D3_8015-101165-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:4919291 RRO AMOUNT: 0.1641431

**ERH1772 (RHMW12A)** Batch ID: 160213

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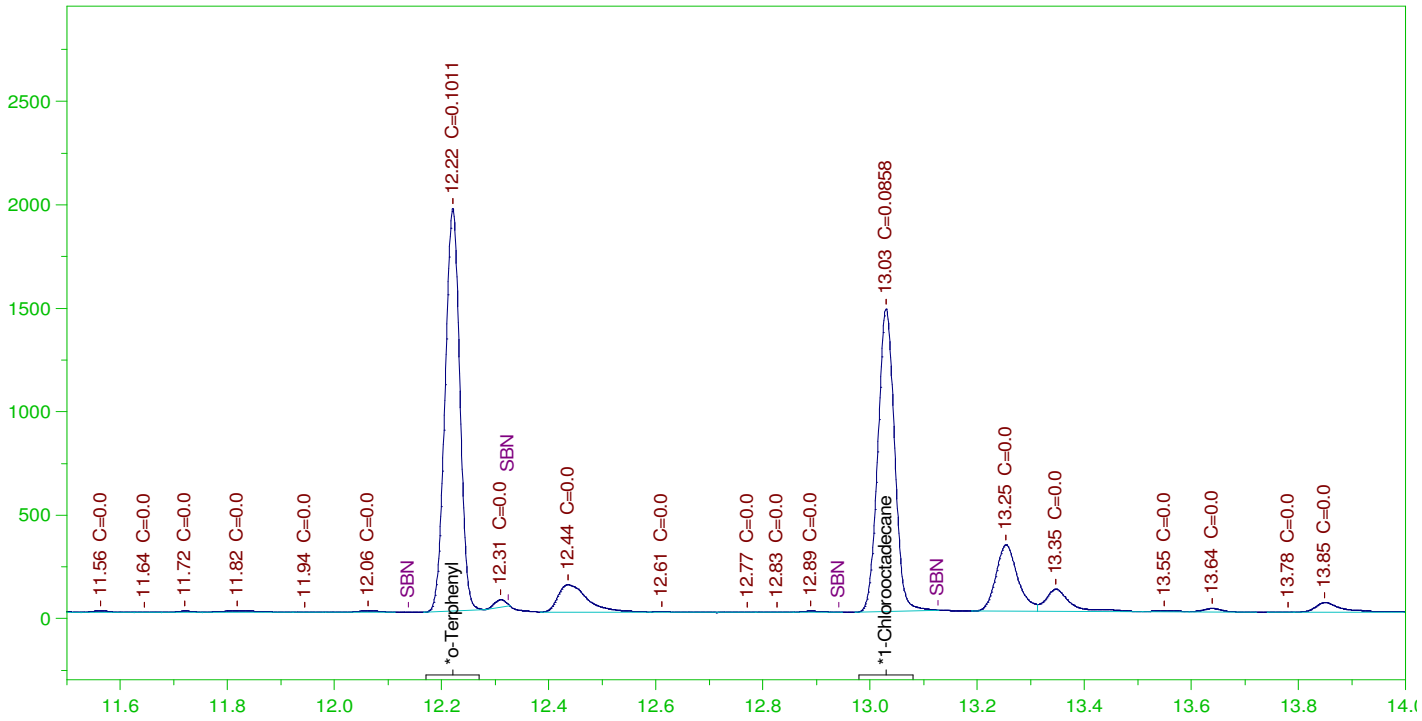



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

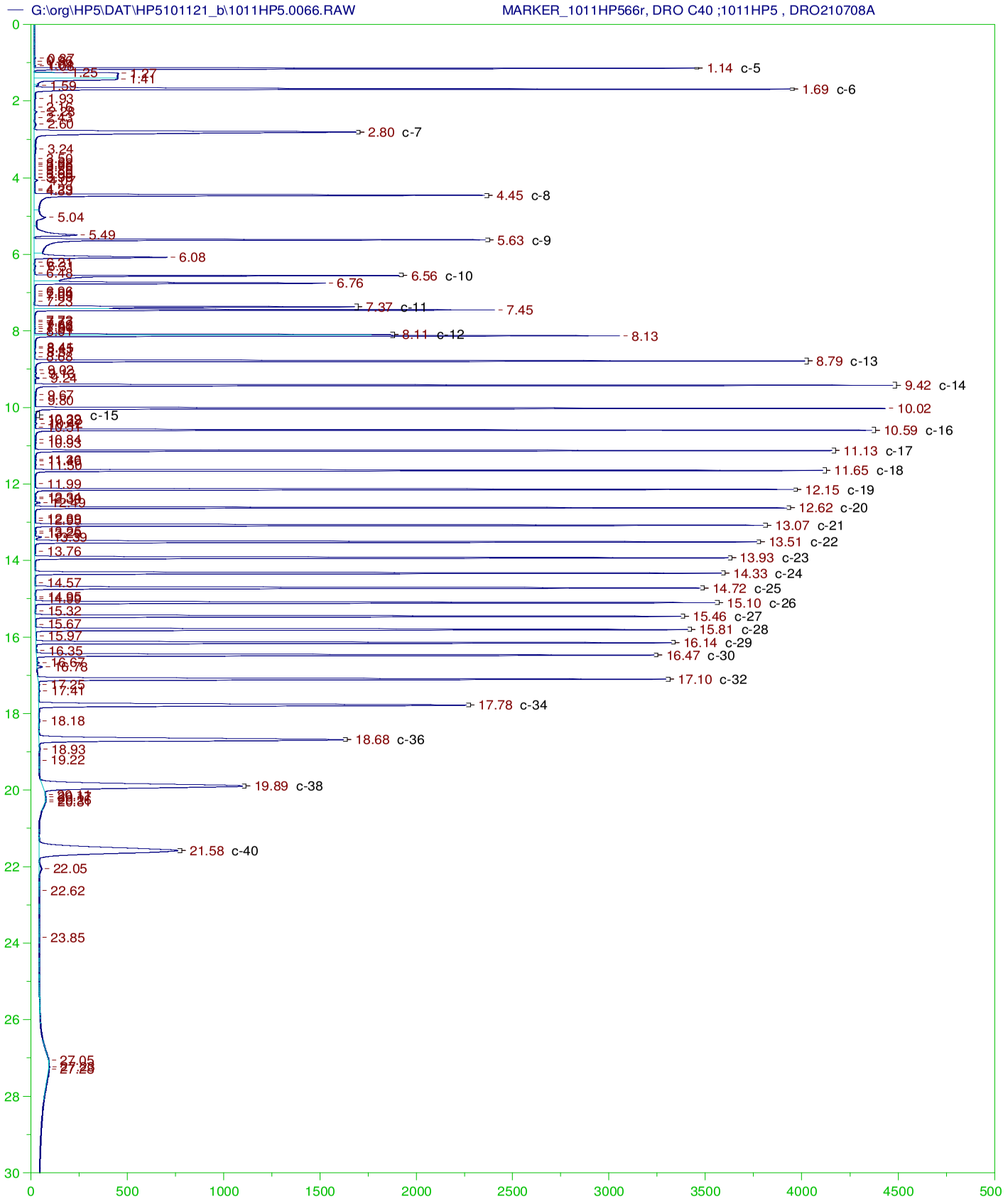
Sample Name: B21100827-002A ;1011HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0065.RAW
Date & Time Acquired: 10/13/2021 8:47:22 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

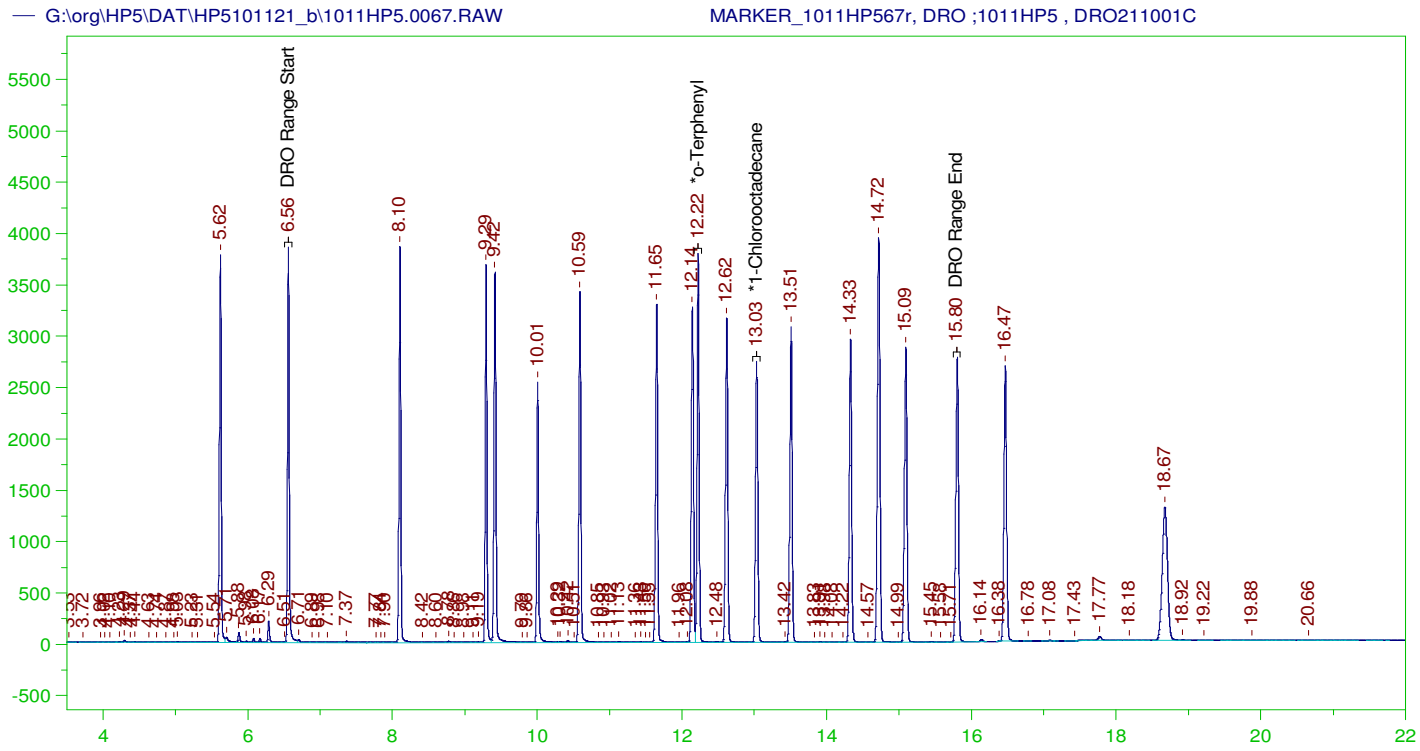
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.221 | .19 | .101 | 53.07 | - |
| *1-Chlorooctadecane | 13.03 | .19 | .086 | 45.07 | - |

DRO Area:6178081 DRO Amount: 0.1997427
TEH Area:7603099 TEH Amount: 0.2458148

G:\org\HP5\dat\HP5101121_b\Review\065_B21100827-002A_DS_8015-HS-L#.xls




G:\org\HP5\dat\HP5101121_b\Review\066_MARKER_1011HP566r_CSC211011.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

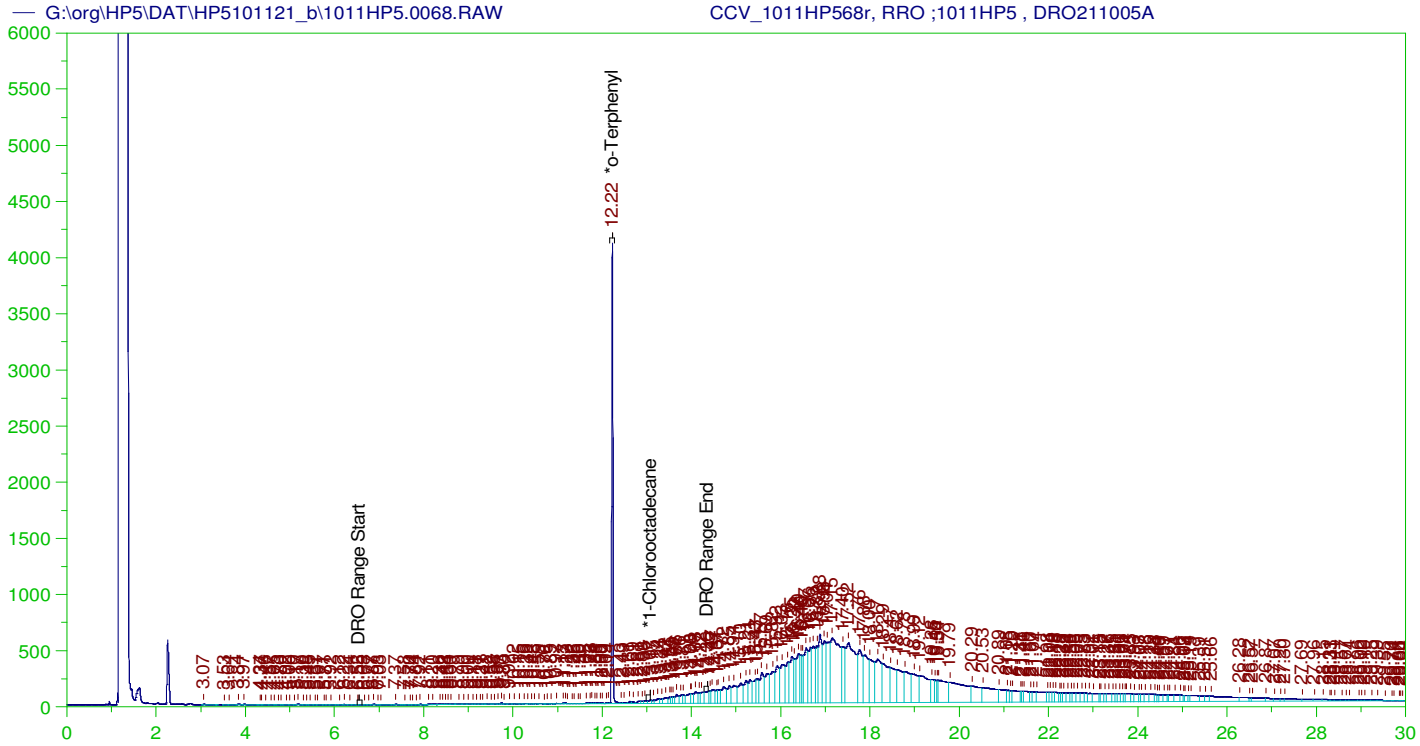
Sample Name: MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0067.RAW
Date & Time Acquired: 10/13/2021 10:13:13 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.225 | 200. | 207.103 | 103.55 | - |
| *1-Chlorooctadecane | 13.032 | 200. | 167.24 | 83.62 | - |

DRO Area:9.46077E+07 DRO Amount: 3211.686
TEH Area:1.157155E+08 TEH Amount: 3928.242

G:\org\HP5\dat\HP5101121_b\Review\067_MARKER_1011HP567r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP568r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW
Date & Time Acquired: 10/13/2021 10:55:59 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 228.139 | 114.07 | - |
| *1-Chlorooctadecane | 13.068 | 200. | 4.318 | 2.16 | - |

DRO Area:6687357 DRO Amount: 234.2955
TEH (Oil Range) Area:1.440007E+08 TEH (Oil Range) Amount: 5045.149

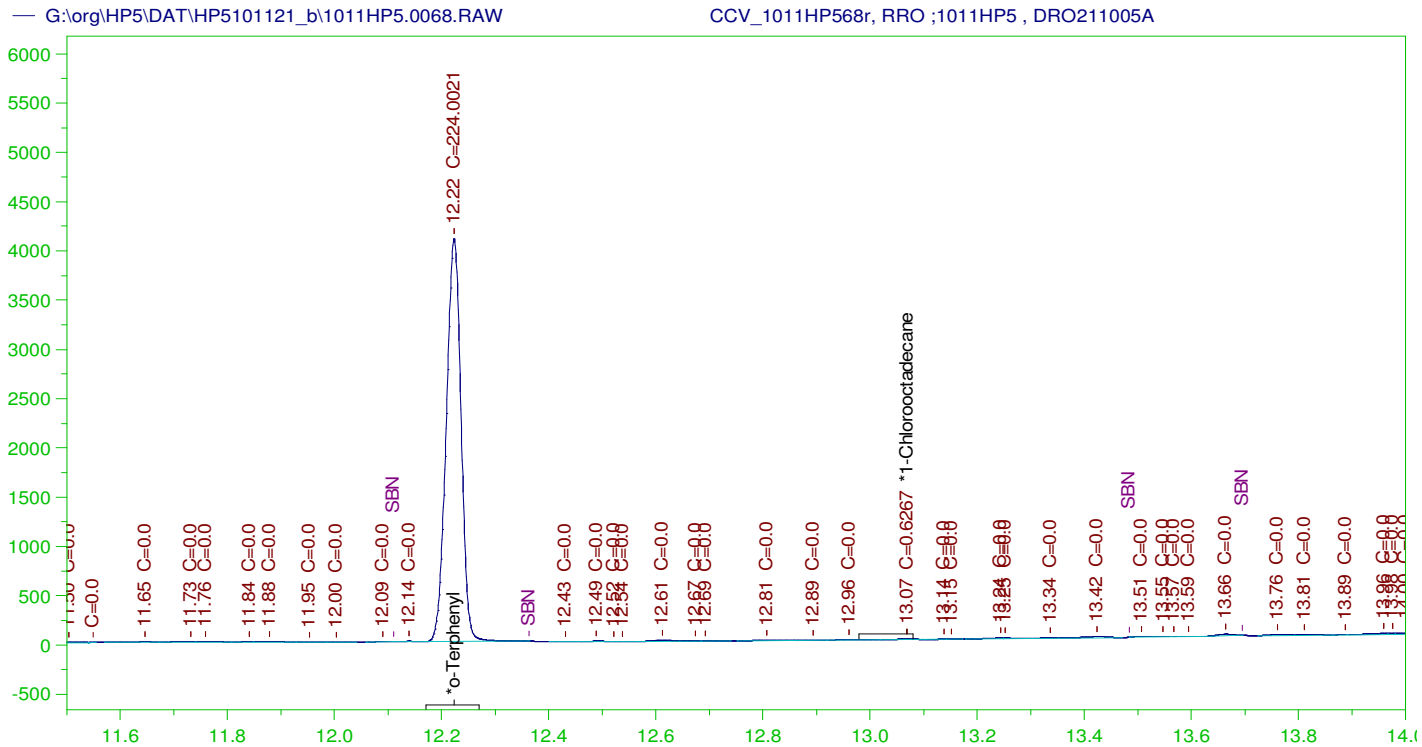
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5045.15 | 100.9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 228.139 | 114.07 | 85-115 |
| *1-Chlorooctadecane | 13.068 | 200. | 4.318 | 2.16 | 85-115 |

AMN 10/20/2021

G:\org\HP5\dat\HP5101121_b\Review\068_CCV_1011HP568r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP568r, RRO ;1011HP5 , DRO211005A
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW
Date & Time Acquired: 10/13/2021 10:55:59 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 224.002 | 112. | - |
| *1-Chlorooctadecane | 13.068 | 200. | .627 | .31 | - |

DRO Area:934243.1 DRO Amount: 32.73175
TEH Area:2139755 TEH Amount: 74.96756

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0068.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 74.97 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.223 | 200. | 224.002 | 112. | 85-115 |
| *1-Chlorooctadecane | 13.068 | 200. | .627 | .31 | 85-115 |

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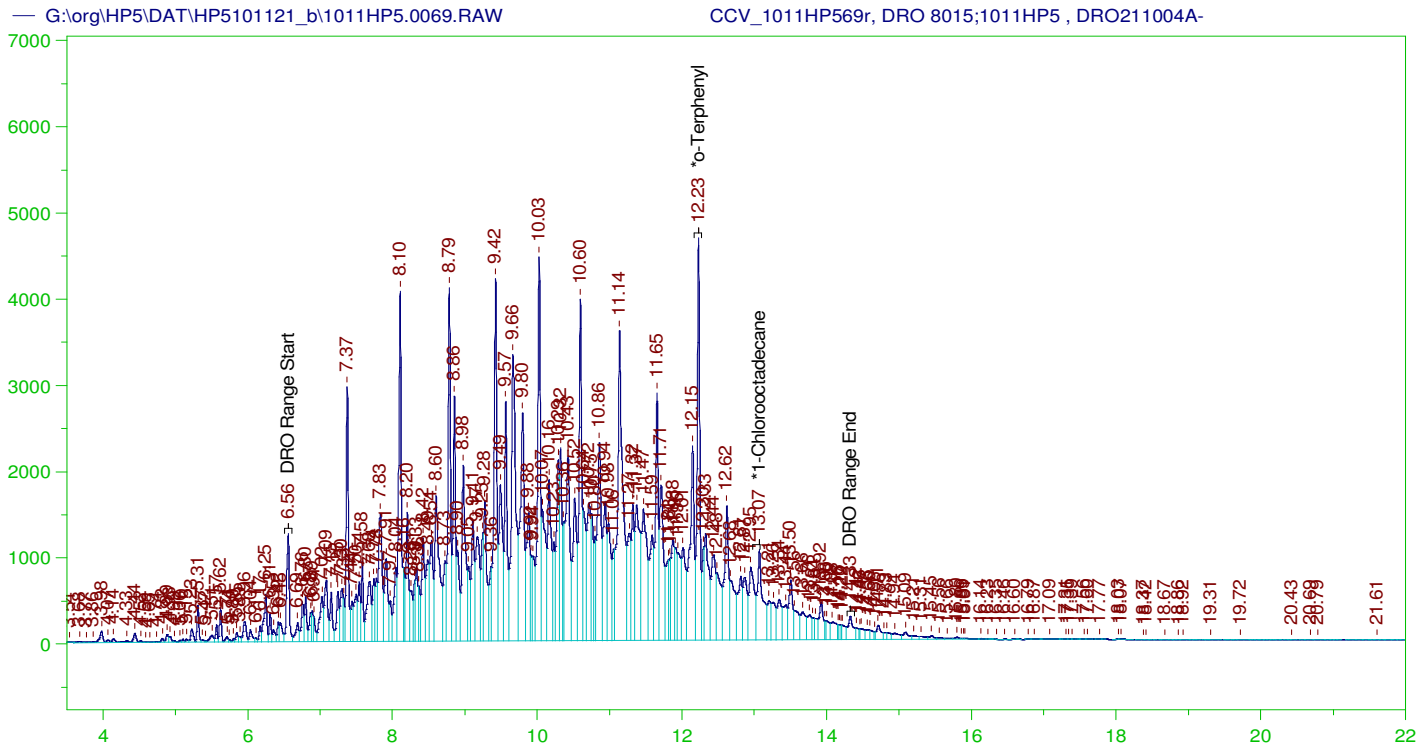



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW
Date & Time Acquired: 10/13/2021 11:38:56 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 334.947 | 167.47 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 152.18 | 76.09 | - |

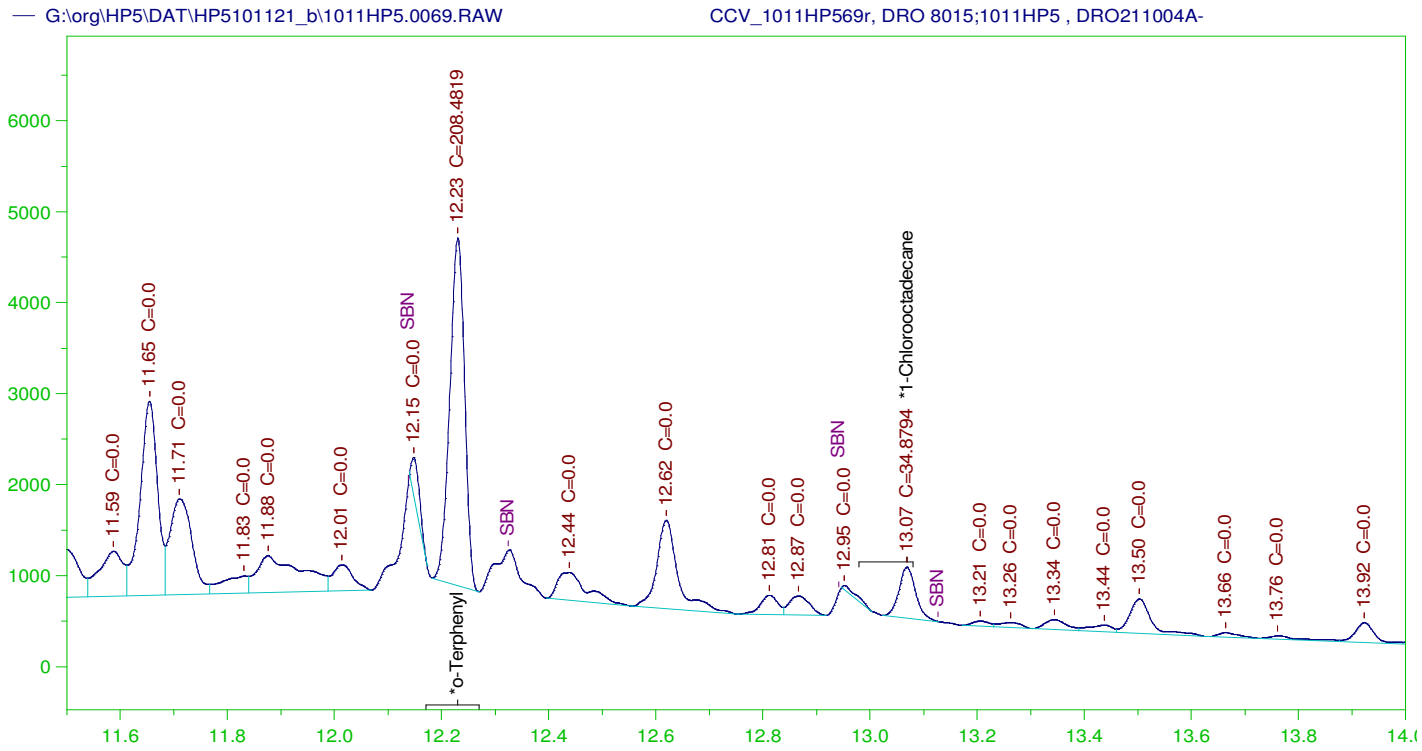
DRO Area:4.39895E+08 DRO Amount: 14933.29
TEH Area:4.556282E+08 TEH Amount: 15467.4

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15467.4 | 103.12 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 334.947 | 167.47 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 152.18 | 76.09 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\069_CCV_1011HP569r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW
Date & Time Acquired: 10/13/2021 11:38:56 AM
Method File: G:\Org\HP5\Methods\DS_8015-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 208.482 | 104.24 | - |
| *1-Chlorooctadecane | 13.069 | 200. | 34.879 | 17.44 | - |

DRO Area:2.439914E+08 DRO Amount: 8282.876
TEH Area:2.533526E+08 TEH Amount: 8600.662

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101121_b\1011HP5.0069.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8600.66 | 57.34 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.23 | 200. | 208.482 | 104.24 | 85-115 |
| *1-Chlorooctadecane | 13.069 | 200. | 34.879 | 17.44 | 85-115 |

G:\org\HP5\dat\HP5101121_b\Review\069_CCV_1011HP569r_DS_8015-HS-L#.xls

Write Sequence | Insert Entries(Have the first cell for entries selectec

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | **Manual Integrations** |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101121_b\1011HP5.52r | MARKER_1011HP552r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.53r | MARKER_1011HP553r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.54r | CCV_1011HP554r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.55r | CCV_1011HP555r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.56r | DCM-Baseline Check-V56 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.57r | DCM-Baseline Check-V57 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.58r | LCS-160213 ;1011HP5 , | G:\Org\HP5\Methods\D3_8015-101158-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split at 13.06.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.59r | MB-160213 ;1011HP5 , | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.60r | B21100824-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.61r | DCM-Baseline Check-V61 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.62r | B21100827-001A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101162-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101133-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1045 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak Width Adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.64r | DCM-Baseline Check-V64 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.65r | B21100827-002A ;1011HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-101165-C24-HS-L%.met<br>G:\Org\HP5\Methods\D3_OIL-S-101165-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak Width Adjusted and scale set 4000.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.66r | MARKER_1011HP566r, DRO C40 ;1011HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.67r | MARKER_1011HP567r, DRO ;1011HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.68r | CCV_1011HP568r, RRO ;1011HP5 , DRO211005A | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.6-14.0. |
| G:\org\HP5\DAT\HP5101121_b\1011HP5.69r | CCV_1011HP569r, DRO 8015;1011HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.21 08:39:06 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Oct-21*

**Run ID** GCFID-HP5-B_211013B

**Run Start Date:** 10/13/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER-C | 3/5/2028 |
| DRO211001C | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211004A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO211012C | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-OIL | 9/30/2024 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770795 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/13/2021 2:37: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.186625 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.901167 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2053911 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.186625 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770796 | CCV_1013HP50 | HC-8015-DRO- | CCV | | 10/13/2021 3:19: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.915474 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2262164 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770802 | CCV_1013HP54 | HC-8015-DRO- | CCV | | 10/13/2021 4:02: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.85804 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.85804 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 106% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2120444 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770803 | B21100828-001 | HC-8015-DRO- | SAMP | | 10/13/2021 5:27: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1976113 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770804 | B21100828-002 | HC-8015-DRO- | SAMP | | 10/13/2021 6:10: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1874219 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770805 | B21100834-001 | HC-8015-DRO- | SAMP | | 10/13/2021 6:53: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038511 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.087021 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.074151 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1818448 | | 0.198 | 0 | 0 | 0.0004247 | 0.002 | 0 | 92% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770806 | B21100834-002 | HC-8015-DRO- | SAMP | | 10/13/2021 8:19: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.189216 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770807 | B21100834-003 | HC-8015-DRO- | SAMP | | 10/13/2021 9:45: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1973095 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 103% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770808 | B21100827-003 | HC-8015-DRO- | SAMP | | 10/13/2021 11:5 | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1915854 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 100% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770809 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/14/2021 2:01: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3273.727 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4005.684 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 210.9286 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105464% | 50 | 150 | 0% | S |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3273.727 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770810 | CCV_1013HP51 | HC-8015-DRO- | CCV | | 10/14/2021 2:44: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.746161 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 95% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2216466 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 111% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770811 | CCV_1013HP52 | HC-8015-DRO- | CCV | | 10/14/2021 3:27: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.33257 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 109% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.33257 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.219708 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770812 | LCS-RRO-1602 | HC-8015-DRO- | LCS-DOD | | 10/14/2021 4:52: | 1 | 160213 | 10/11/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.671418 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 93% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.203986 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770813 | B21100827-002 | HC-8015-DRO- | MS-DOD | | 10/14/2021 6:18: | 1 | 160213 | 10/11/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.356012 | | 9.7 | 0.4448315 | 0 | 0.170526 | 0.582 | 0 | 92% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2648423 | | 0.388 | 0 | 0 | 0.0008323 | 0.00388 | 0 | 68% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770814 | B21100827-002 | HC-8015-DRO- | MSD-DOD | | 10/14/2021 7:43: | 1 | 160213 | 10/11/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.44066 | | 9.7 | 0.4448315 | 9.356012 | 0.170526 | 0.582 | 0 | 93% | 41 | 113 | 1% | |
| o-Terphenyl | S | mg/L | | 0.237997 | | 0.388 | 0 | 0 | 0.0008323 | 0.00388 | 0 | 61% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770815 | B21100827-001 | HC-8015-DRO- | MS-DOD | | 10/14/2021 9:08: | 1 | 160213 | 10/11/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 30.96145 | | 30 | 0.2248985 | 0 | 0.0778 | 0.6 | 0 | 102% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 33.02845 | | 30 | 0.6724572 | 0 | 0.1498 | 0.6 | 50 | 108% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.4151205 | | 0.4 | 0 | 0 | 0.000858 | 0.004 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770816 | B21100827-001 | HC-8015-DRO- | MSD-DOD | | 10/14/2021 10:3 | 1 | 160213 | 10/11/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 31.09606 | | 30 | 0.2248985 | 30.96145 | 0.0778 | 0.6 | 0 | 103% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 33.69878 | | 30 | 0.6724572 | 33.02845 | 0.1498 | 0.6 | 50 | 110% | 60 | 132 | 2% | |
| o-Terphenyl | S | mg/L | | 0.3570459 | | 0.4 | 0 | 0 | 0.000858 | 0.004 | 0 | 89% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770817 | MARKER_1013 | HC-8015-DRO- | SAMP | | 10/14/2021 12:4 | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 3.544346 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.332742 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2284829 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 114% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 3.544346 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770818 | CCV_1013HP53 | HC-8015-DRO- | CCV | | 10/14/2021 1:24: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.916102 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2103075 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770819 | CCV_1013HP53 | HC-8015-DRO- | CCV | | 10/14/2021 2:06: | 1 | R368674 | | 0 | 0 | |

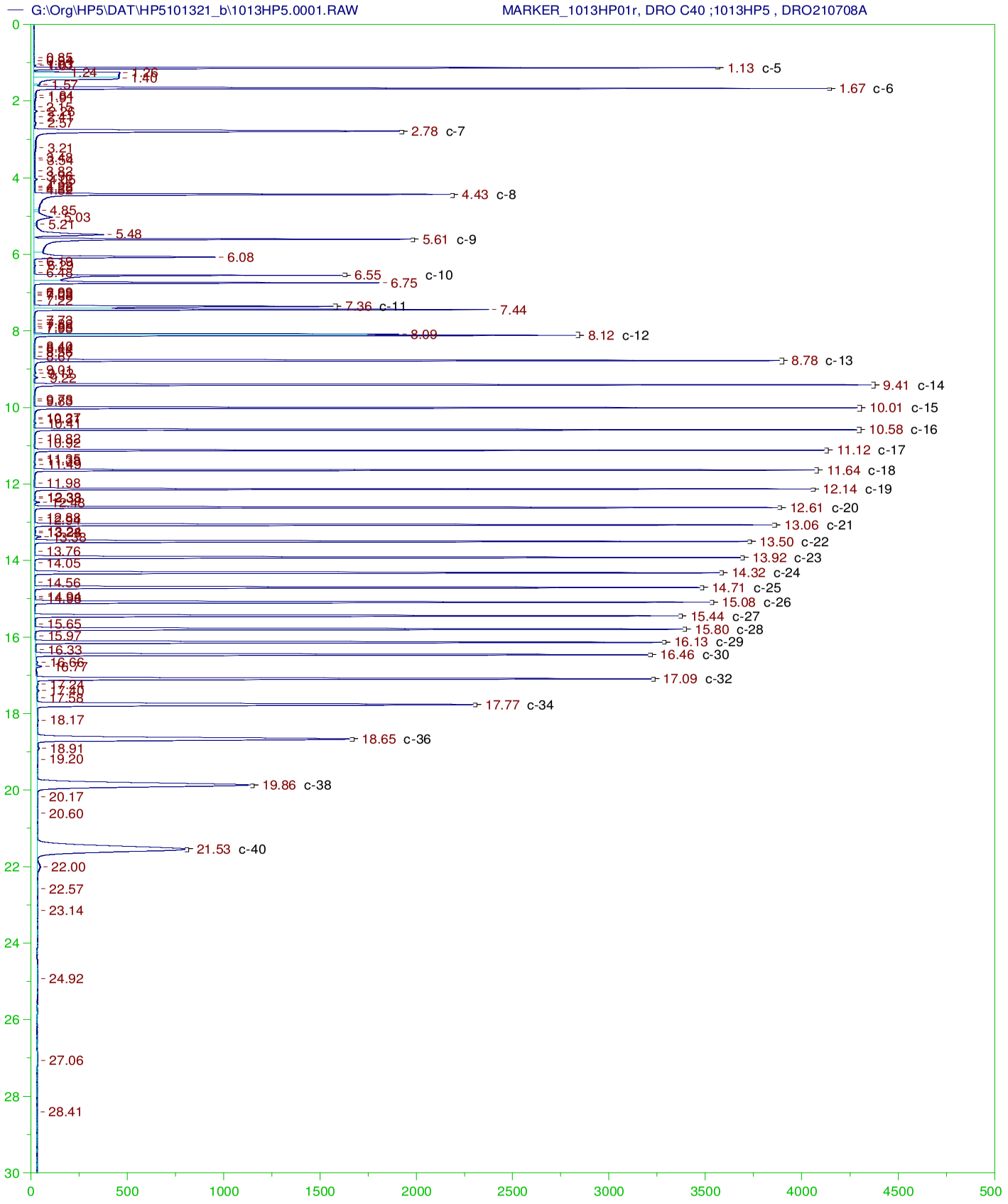
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14770819 | CCV_1013HP53 | HC-8015-DRO- | CCV | | 10/14/2021 2:06: | 1 | R368674 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.89215 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.89215 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 106% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2131573 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

Write Sequence | Insert Entries(Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101321_b\1013HP5.01r | MARKER_1013HP01r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.02r | MARKER_1013HP502r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.03r | CCV_1013HP503r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.04r | CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.06r | B21100828-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-101306-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-101306-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.07r | B21100828-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.08r | B21100834-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1010 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.09r | DCM-Baseline Check-V09 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.10r | B21100834-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.11r | DCM-Baseline Check-V11 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.12r | B21100834-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.15r | B21100827-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.16r | DCM-Baseline Check-V16 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.17r | MARKER_1013HP17r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.18r | MARKER_1013HP518r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.19r | CCV_1013HP519r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.20r | CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.21r | DCM-Baseline Check-V21 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.22r | LCS-RRO-160213 ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.24r | B21100827-002AMS-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.25r | DCM-Baseline Check-V25 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.26r | B21100827-002AMSD-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.28r | B21100827-001AMS ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101328-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.30r | B21100827-001AMSD ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101330-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.32r | MARKER_1013HP32r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.33r | MARKER_1013HP533r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.34r | CCV_1013HP534r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.35r | CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.36r | DCM-Baseline Check-V36 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.37r | DCM-Baseline Check-V37 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.38r | MARKER_1013HP38r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.39r | MARKER_1013HP539r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.40r | CCV_1013HP540r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.41r | CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.42r | DCM-Baseline Check-V42 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.43r | LCS-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.44r | MB-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.45r | B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.46r | B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1045 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.47r | B21100827-001AMS ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.48r | B21100827-001AMSD ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.49r | B21100827-002AMS-RRO ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.50r | DCM-Baseline Check-V50 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.51r | B21100827-002AMSD-RRO ;1013HP5 , SGT-NEEDS RR Instrument misinjection | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.52r | DCM-Baseline Check-V52 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.53r | LCS-RRO-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.54r | MARKER_1013HP54r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.55r | MARKER_1013HP555r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.56r | CCV_1013HP556r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.57r | CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.58r | DCM-Baseline Check-V58 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.59r | B21100827-002AMSD-RRO ;1013HP5 , SGT-RR | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.60r | MARKER_1013HP560r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.61r | CCV_1013HP561r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 |


G:\Org\HP5\DAT\HP5101321_b\1013HP5.0001.RAW
MARKER_1013HP01r, DRO C40 ;1013HP5 , DRO210708A
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1.67 c-6
2.78 c-7
4.43 c-8
5.61 c-9
6.55 c-10
7.36 c-11
8.12 c-12
8.78 c-13
9.41 c-14
10.01 c-15
10.58 c-16
11.12 c-17
11.64 c-18
12.14 c-19
12.61 c-20
13.06 c-21
13.50 c-22
13.92 c-23
14.32 c-24
14.71 c-25
15.08 c-26
15.44 c-27
15.80 c-28
16.13 c-29
16.46 c-30
17.09 c-32
17.77 c-34
18.65 c-36
19.86 c-38
21.53 c-40
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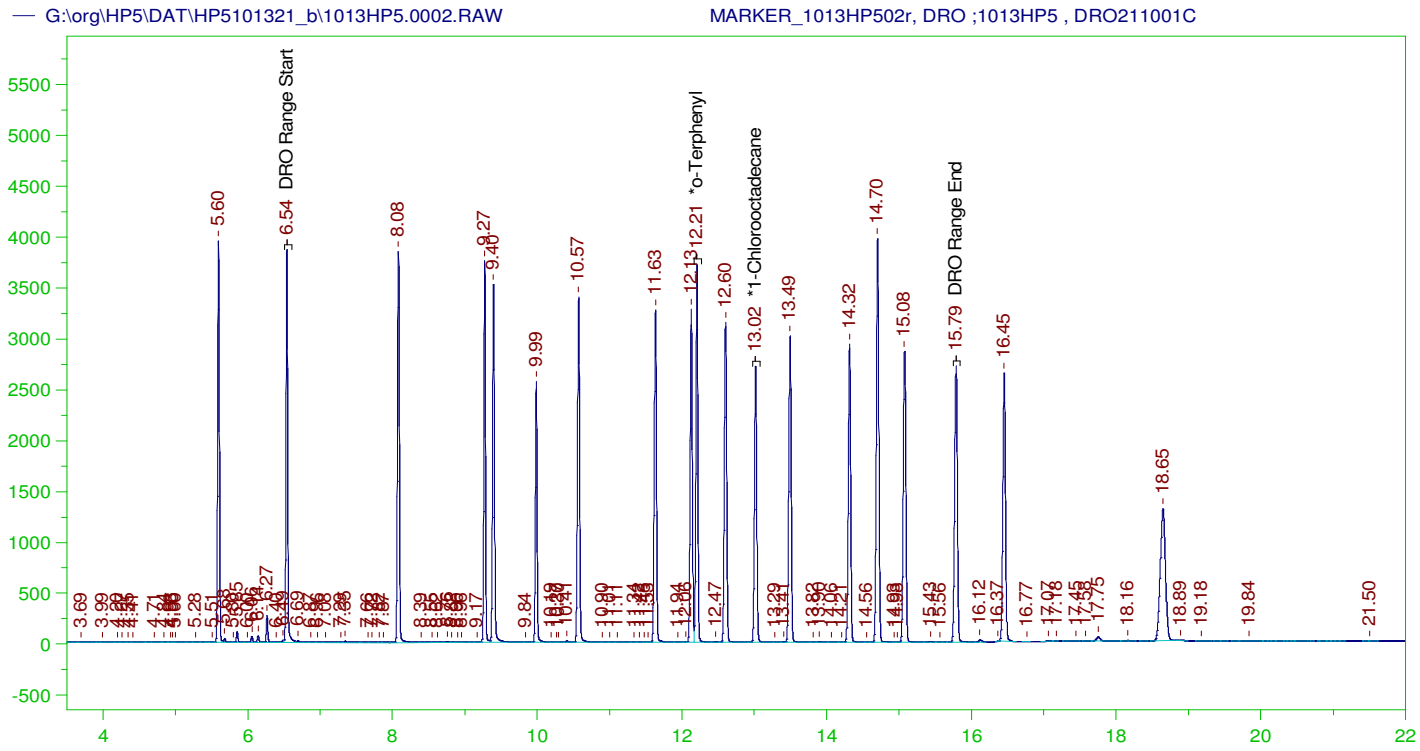



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

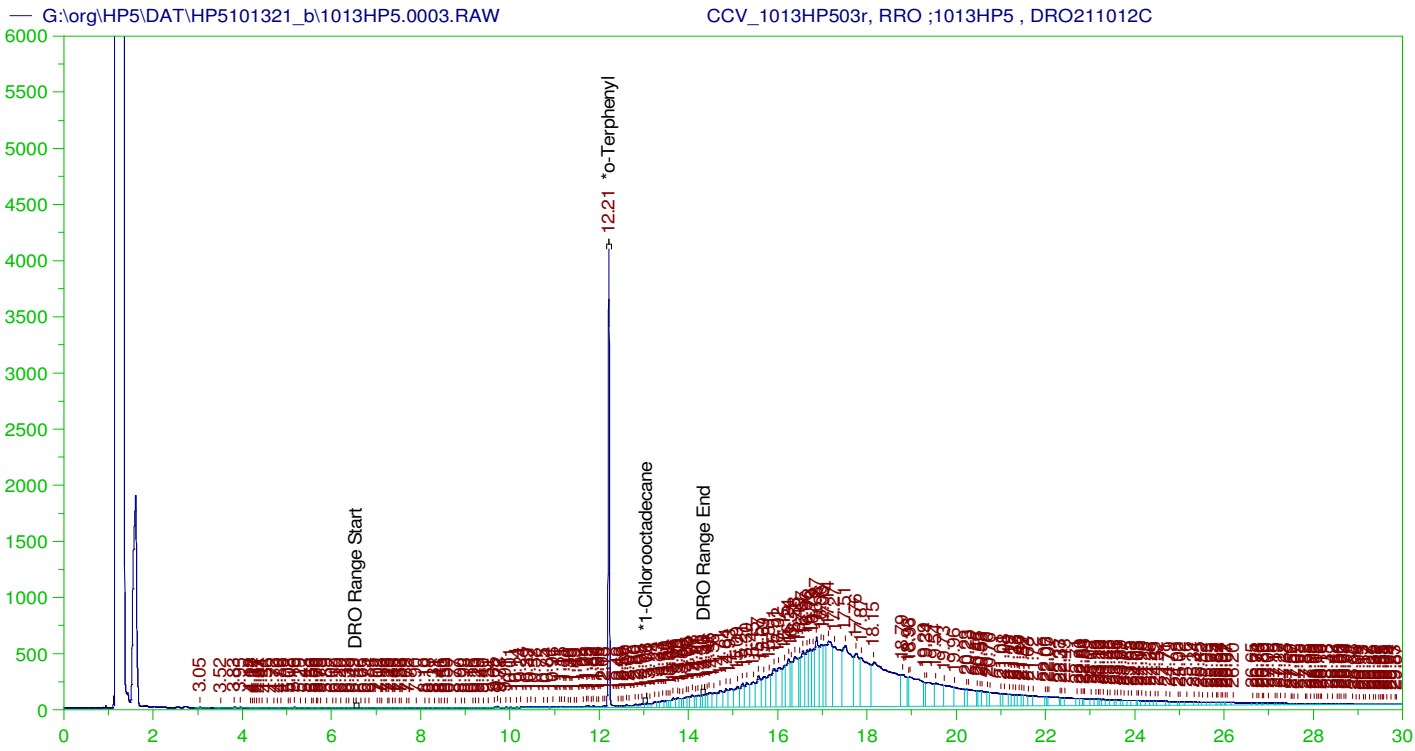
Sample Name: MARKER_1013HP502r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0002.RAW
Date & Time Acquired: 10/13/2021 2:37:20 PM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .2 | .205 | 102.7 | - |
| *1-Chlorooctadecane | 13.018 | .2 | .166 | 83.19 | - |

DRO Area:9.386948E+07 DRO Amount: 3.186625
TEH Area:1.14918E+08 TEH Amount: 3.901167

G:\org\HP5\dat\HP5101321_b\Review\002_MARKER_1013HP502r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP503r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW
Date & Time Acquired: 10/13/2021 3:19:40 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 230.954 | 115.48 | - |
| *1-Chlorooctadecane | 13.06 | 200. | 4.243 | 2.12 | - |

DRO Area:7023046 DRO Amount: 246.0565
TEH (Oil Range) Area:1.402995E+08 TEH (Oil Range) Amount: 4915.474

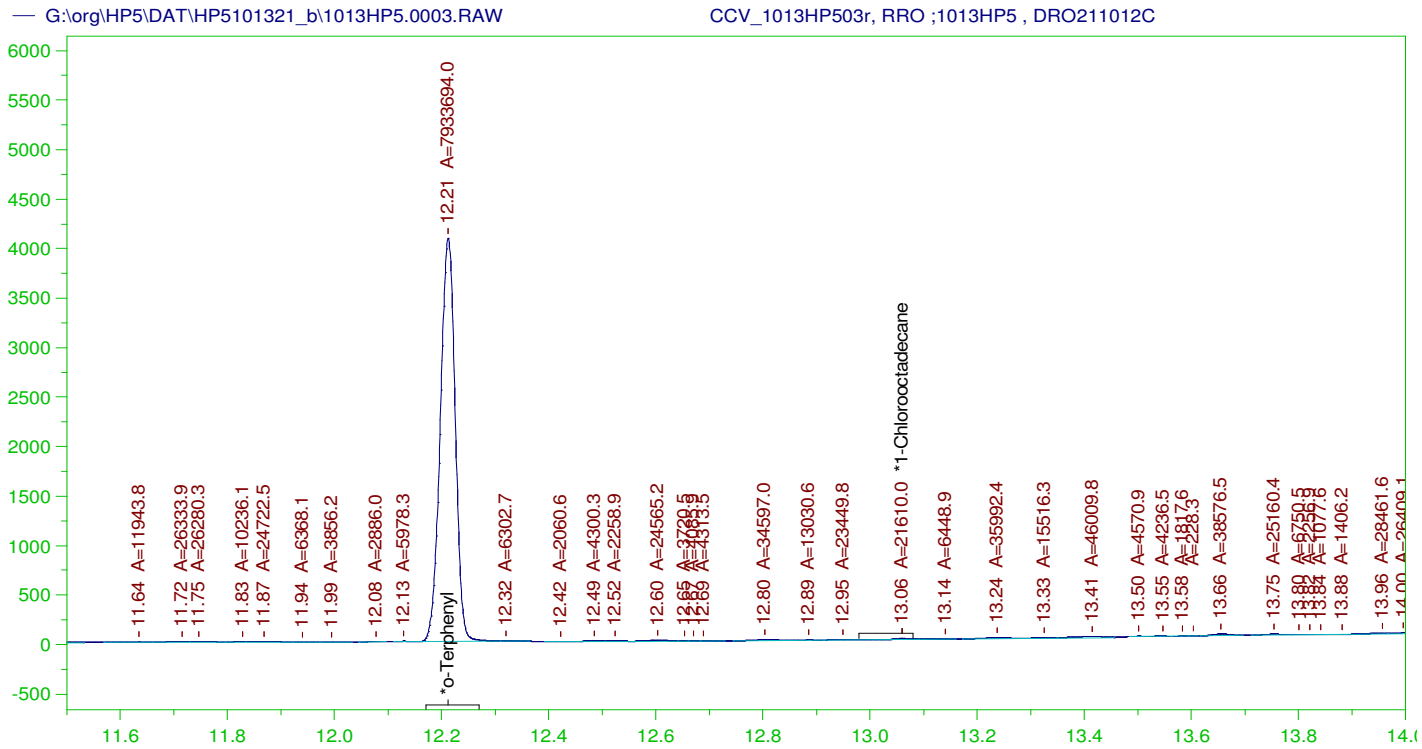
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4915.47 | 98.31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 230.954 | 115.48 | 85-115 |
| *1-Chlorooctadecane | 13.06 | 200. | 4.243 | 2.12 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\003_CCV_1013HP503r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP503r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW
Date & Time Acquired: 10/13/2021 3:19:40 PM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 226.216 | 113.11 | - |
| *1-Chlorooctadecane | 13.06 | 200. | .616 | .31 | - |

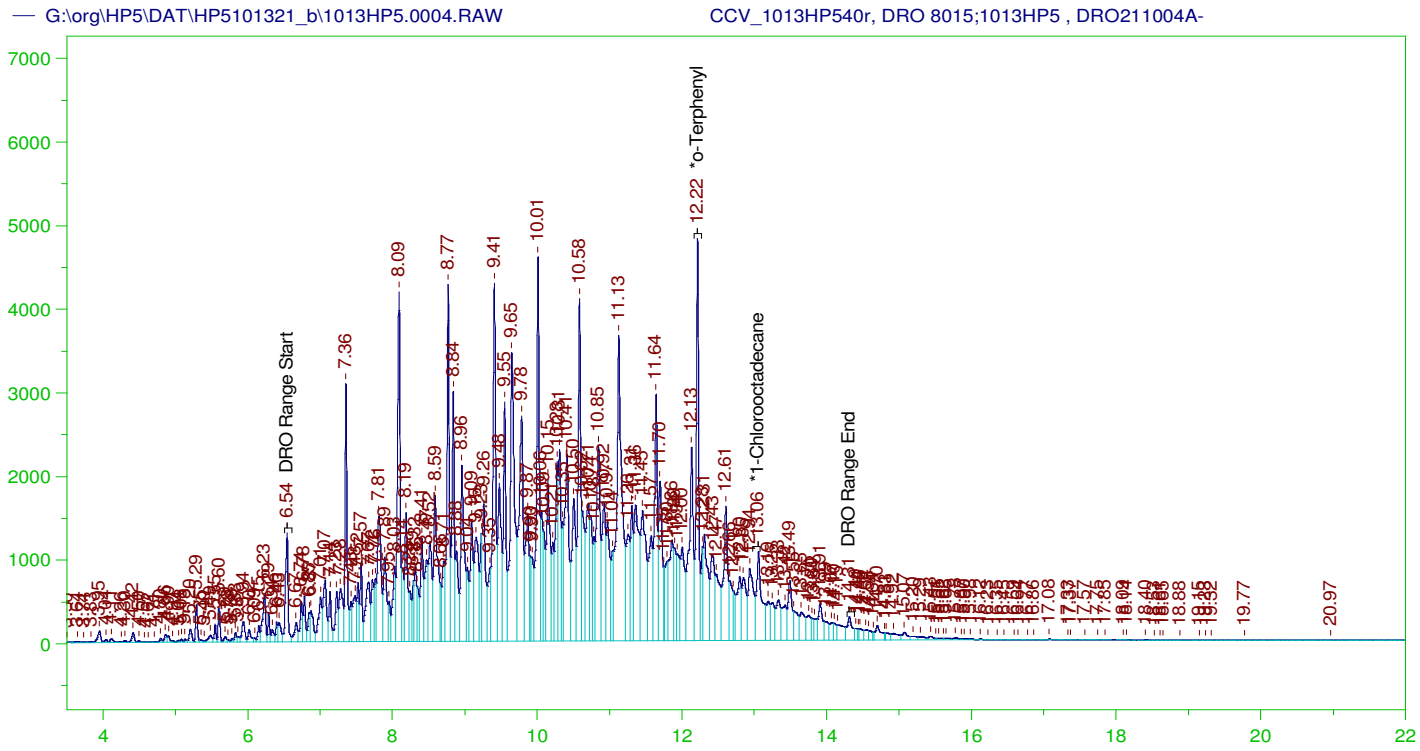
DRO Area:919508.9 DRO Amount: 32.21553
TEH Area:2216074 TEH Amount: 77.64143

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 77.64 | 1.55 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.212 | 200. | 226.216 | 113.11 | 85-115 |
| *1-Chlorooctadecane | 13.06 | 200. | .616 | .31 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\003_CCV_1013HP503r_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW
Date & Time Acquired: 10/13/2021 4:02:01 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 343.222 | 171.61 | - |
| *1-Chlorooctadecane | 13.057 | 200. | 155.465 | 77.73 | - |

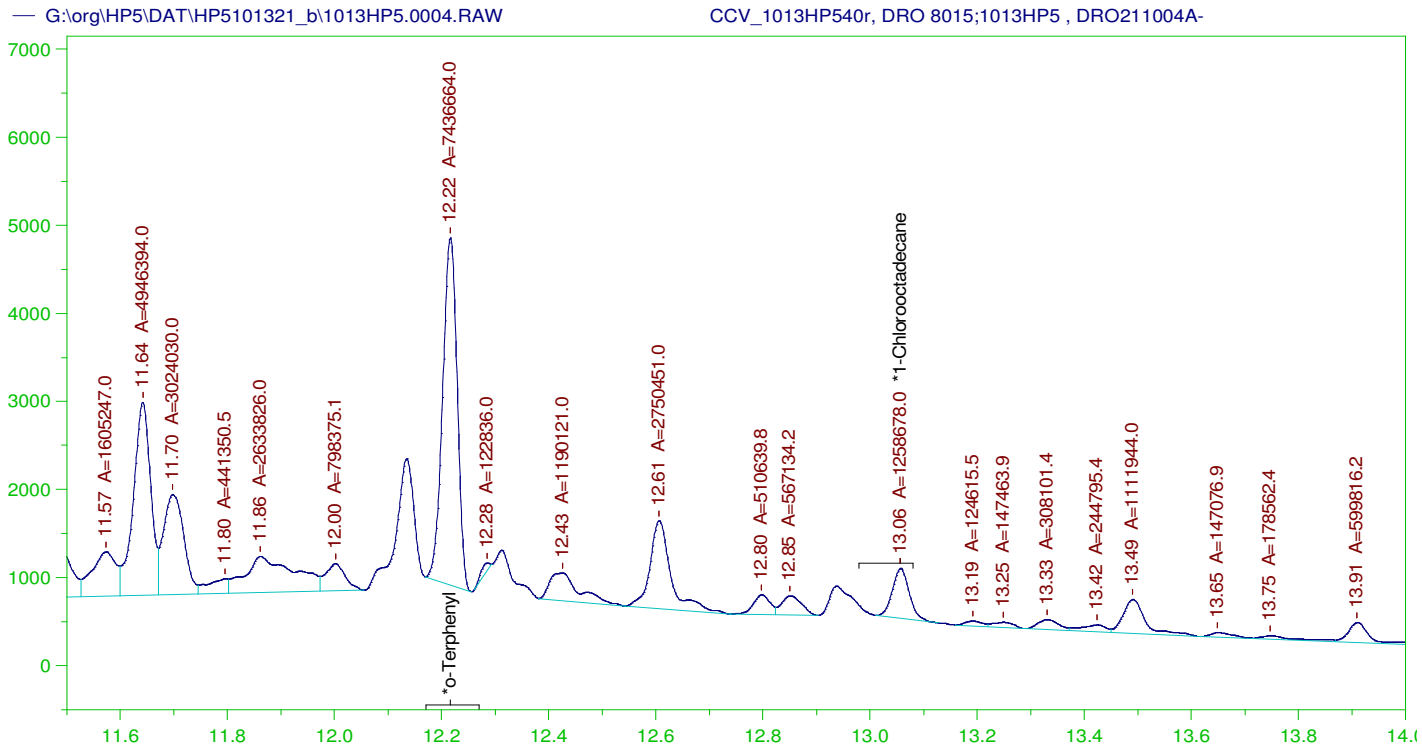
DRO Area:4.507372E+08 DRO Amount: 15301.36
TEH Area:4.671356E+08 TEH Amount: 15858.04

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15858.04 | 105.72 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 343.222 | 171.61 | 85-115 |
| *1-Chlorooctadecane | 13.057 | 200. | 155.465 | 77.73 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\004_CCV_1013HP540r_DC_8015-C24-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW
Date & Time Acquired: 10/13/2021 4:02:01 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 212.044 | 106.02 | - |
| *1-Chlorooctadecane | 13.057 | 200. | 35.889 | 17.94 | - |

DRO Area:2.493131E+08 DRO Amount: 8463.533
TEH Area:2.590718E+08 TEH Amount: 8794.816

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8794.82 | 58.63 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | 212.044 | 106.02 | 85-115 |
| *1-Chlorooctadecane | 13.057 | 200. | 35.889 | 17.94 | 85-115 |

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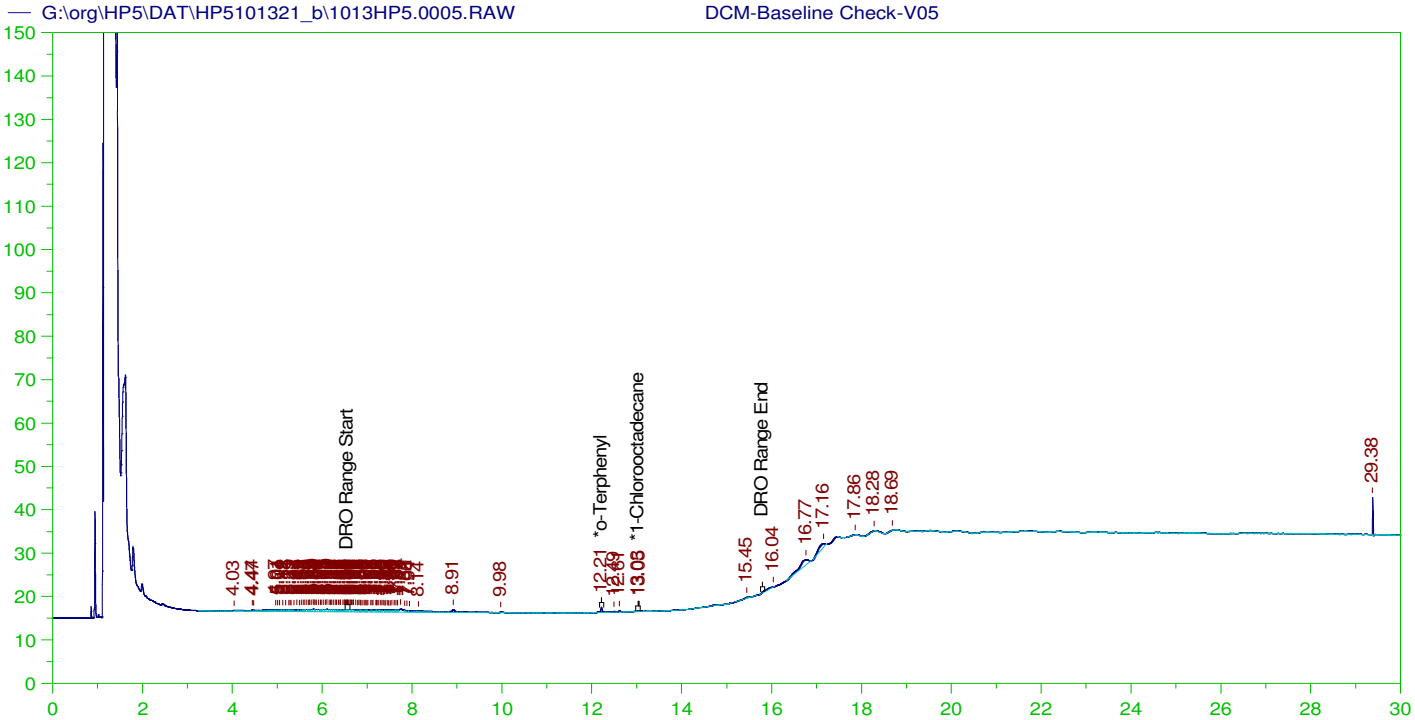



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0005.RAW
Date & Time Acquired: 10/13/2021 4:44:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

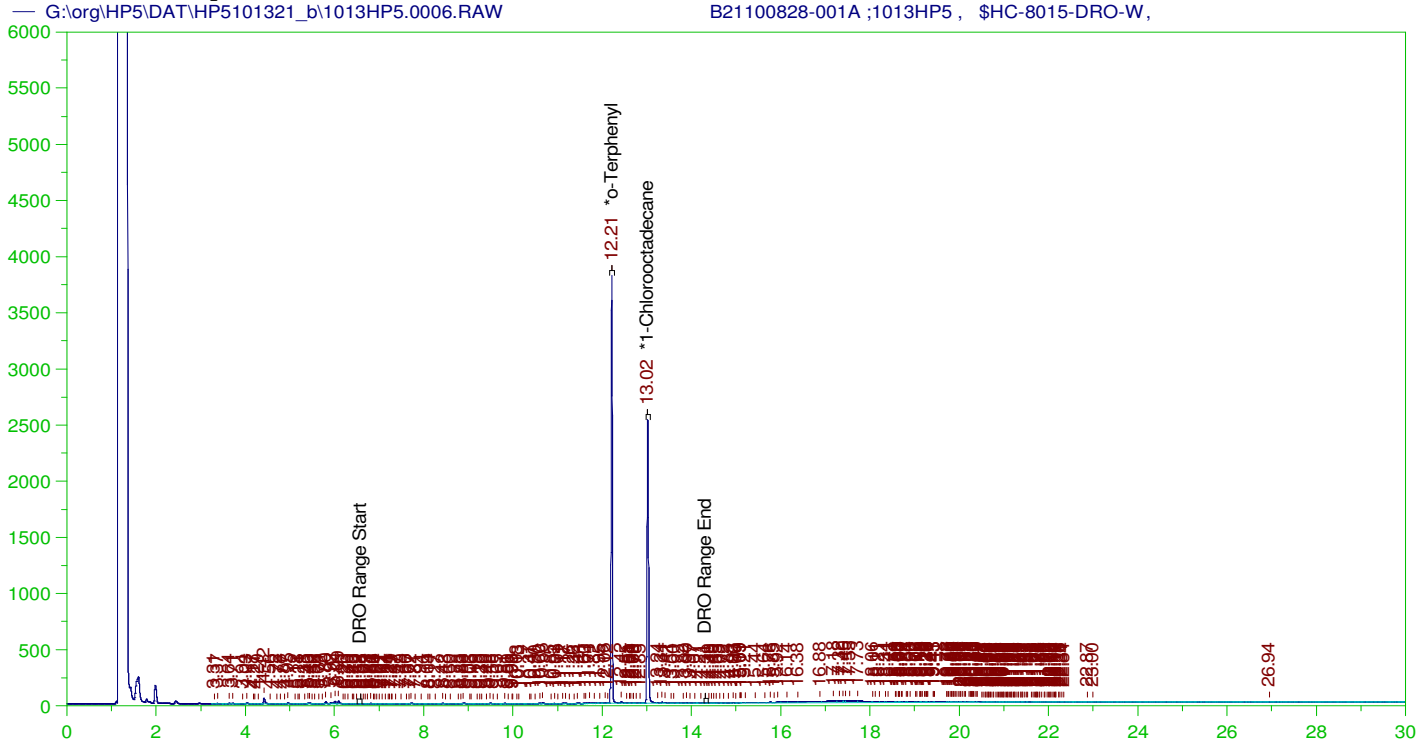
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.211 | 200. | .085 | .04 | - |
| *1-Chlorooctadecane | 13.031 | 200. | .016 | .01 | - |

DRO Area:75849.56 DRO Amount: 2.574896
TEH Area:186375.5 TEH Amount: 6.326963

G:\org\HP5\dat\HP5101321_b\Review\005_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1780 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW B21100828-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DR_8015-101306-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.21 | .19 | .199 | 104.36 | - |
| *1-Chlorooctadecane | 13.019 | .19 | .151 | 79.49 | - |

DRO Area:450173.7 DRO Amount: 0.0145545
TEH Area:4137389 TEH Amount: 0.1337653

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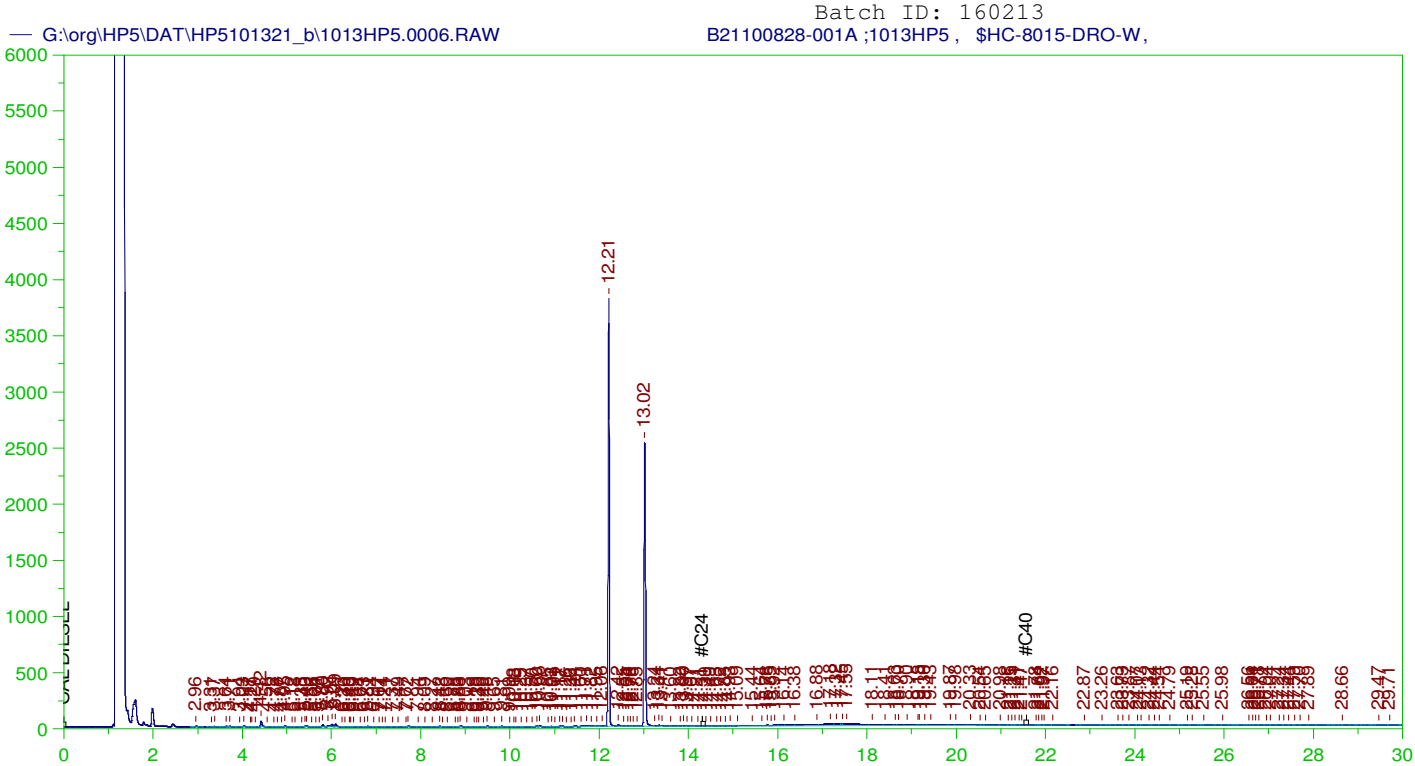
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DR_OIL-101306-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

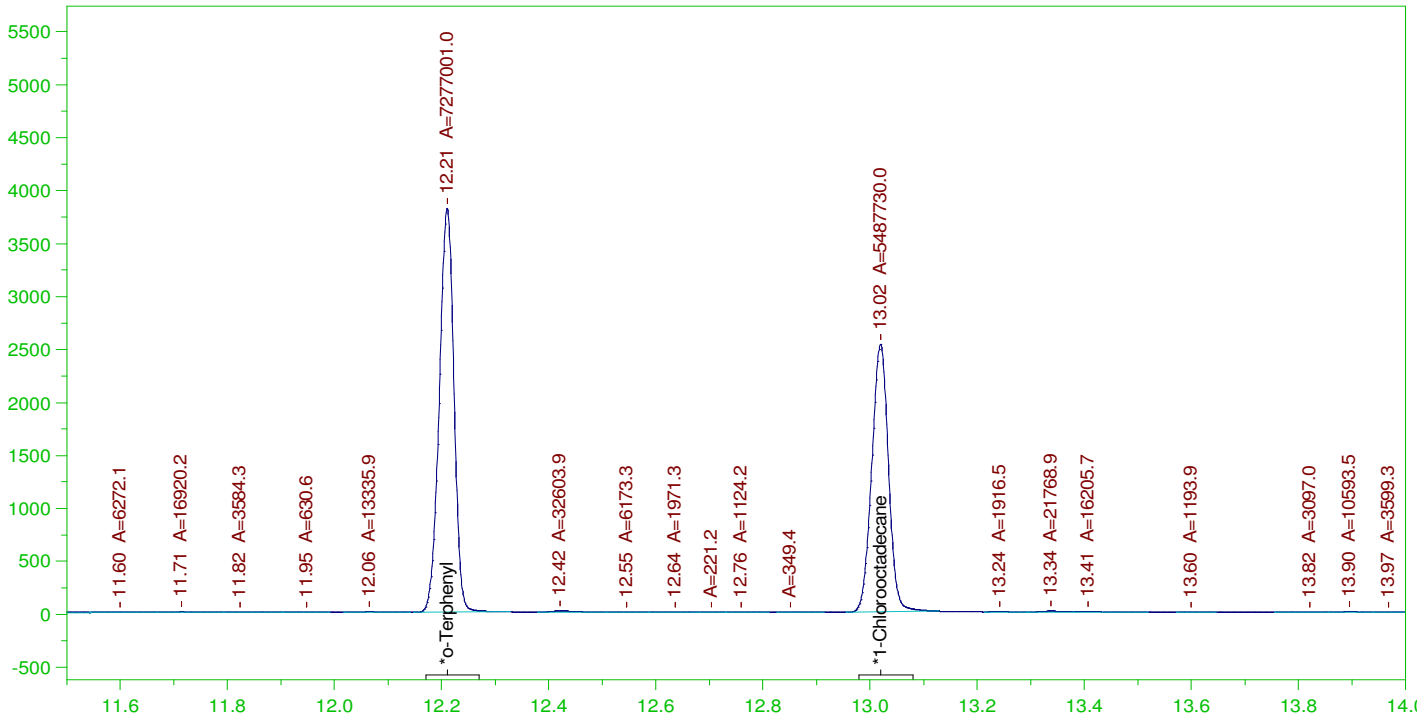
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:3114642 RRO AMOUNT: 0.1039269

G:\org\HP5\dat\HP5101321_b\Review\006_B21100828-001A_DR_OIL-101306-S-AJ-L%.xls

**ERH1780 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW B21100828-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0006.RAW
Date & Time Acquired: 10/13/2021 5:27:39 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

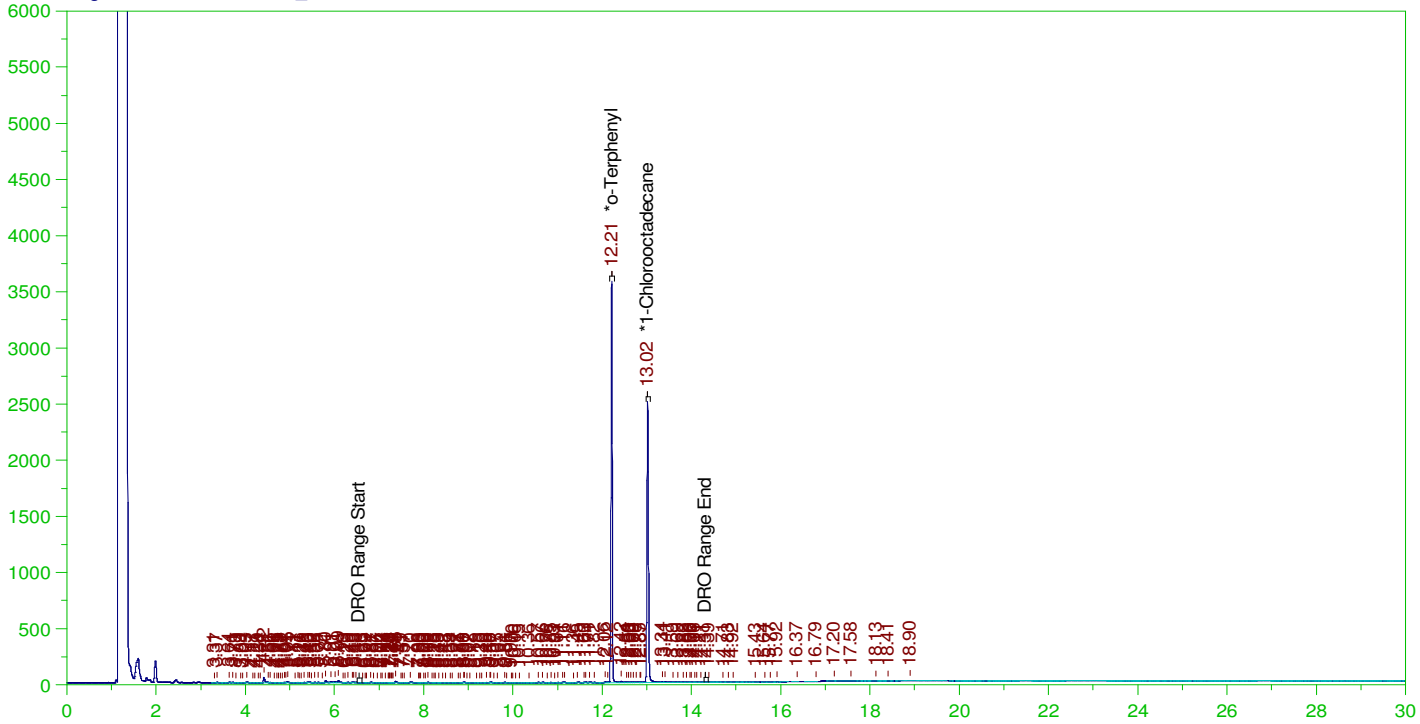
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.21 | .19 | .198 | 103.75 | - |
| *1-Chlorooctadecane | 13.019 | .19 | .149 | 78.24 | - |

DRO Area:385324.5 DRO Amount: 1.245787E-02
TEH Area:1007568 TEH Amount: 3.257553E-02

G:\org\HP5\dat\HP5101321_b\Review\006_B21100828-001A_DS_8015-area-HS-L#.xls

**ERH1781 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW B21100828-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

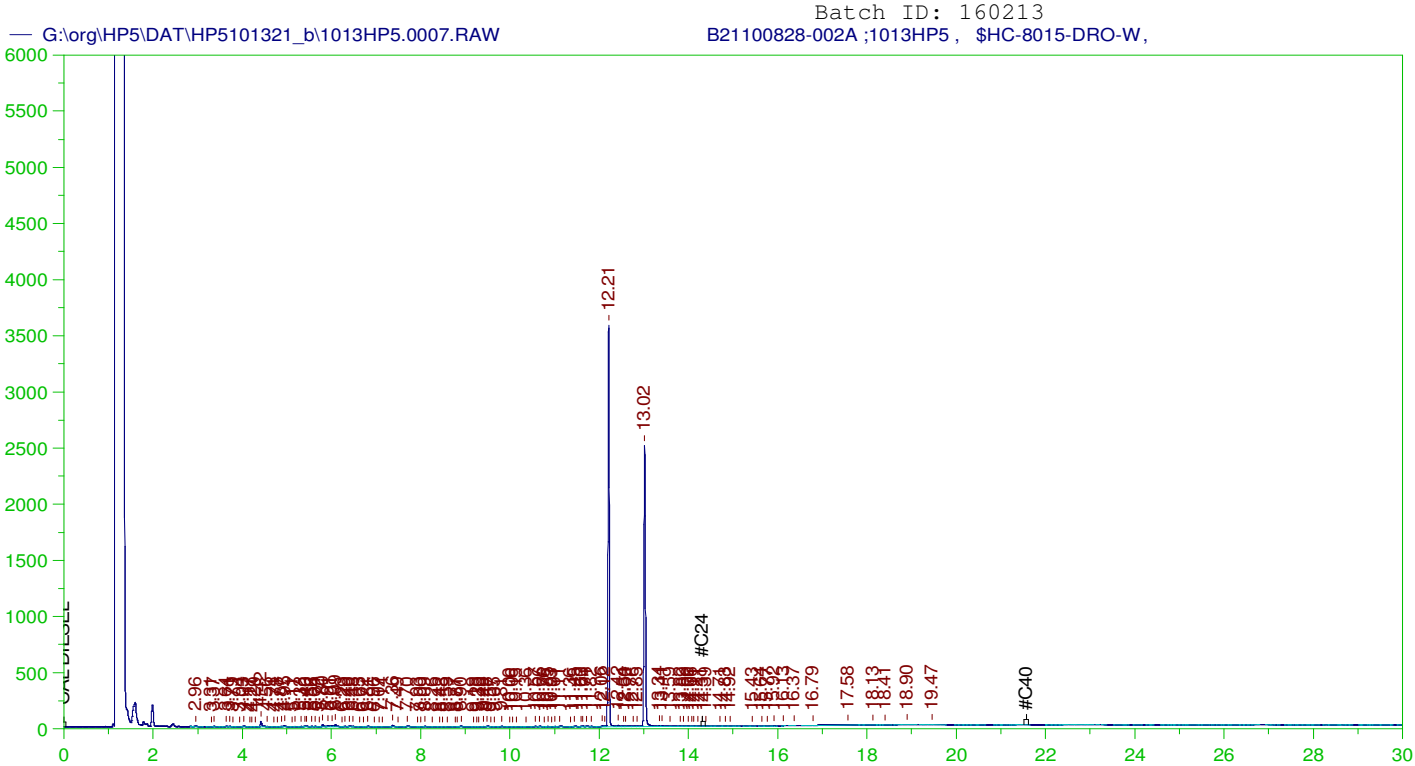
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .19 | .189 | 99.5 | - |
| *1-Chlorooctadecane | 13.017 | .19 | .151 | 79.58 | - |

DRO Area:474748.8 DRO Amount: 0.0152763
TEH Area:1024456 TEH Amount: 3.296458E-02

G:\org\HP5\dat\HP5101321_b\Review\007_B21100828-002A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

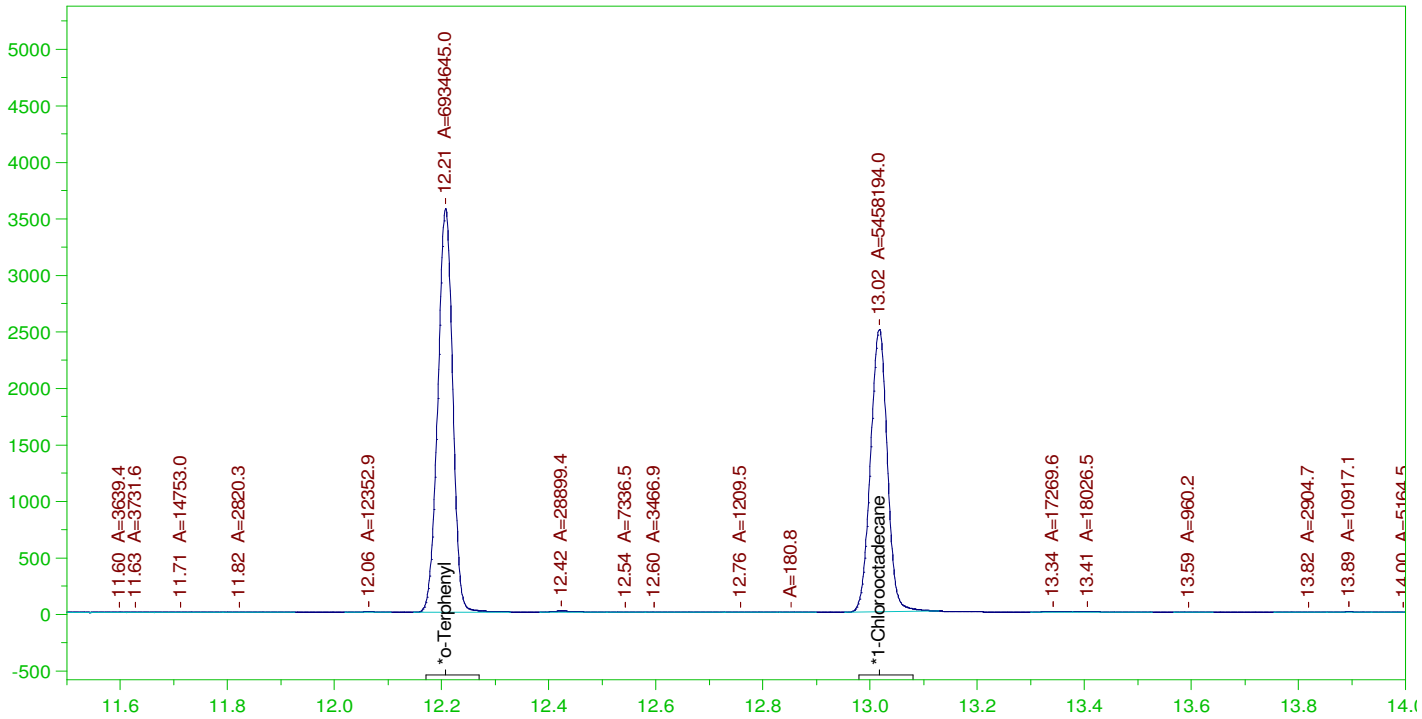
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:120457.5 RRO AMOUNT: 4.000284E-03

G:\org\HP5\dat\HP5101321_b\Review\007_B21100828-002A_DR_OIL-S-AJ-L%.xls

**ERH1781 (RHSF pre-chlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW B21100828-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100828-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0007.RAW
Date & Time Acquired: 10/13/2021 6:10:40 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

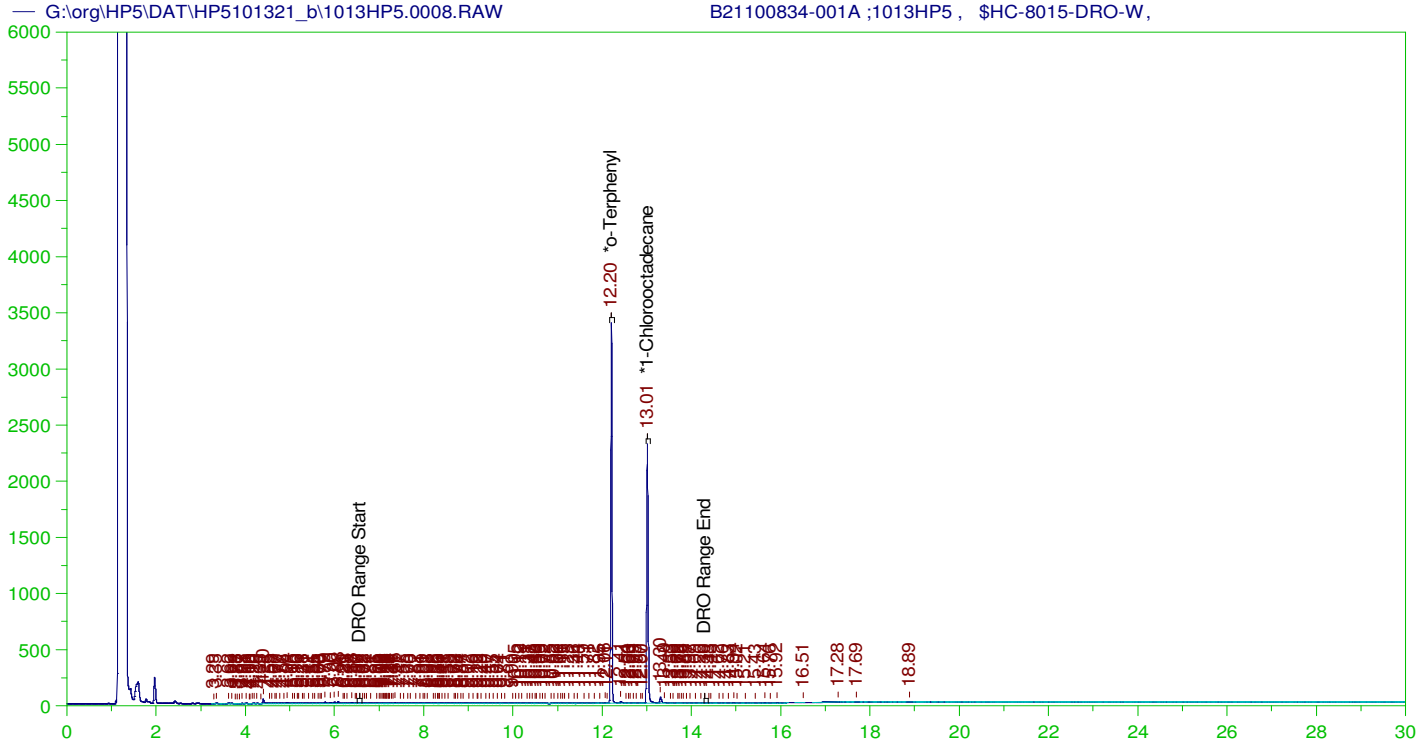
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .19 | .187 | 98.87 | - |
| *1-Chlorooctadecane | 13.017 | .19 | .148 | 77.82 | - |

DRO Area:391548.9 DRO Amount: 1.259912E-02
TEH Area:1005520 TEH Amount: 3.235526E-02

G:\org\HP5\dat\HP5101321_b\Review\007_B21100828-002A_DS_8015-area-HS-L#.xls

**ERH1771 (RHMW14-03)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW B21100834-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

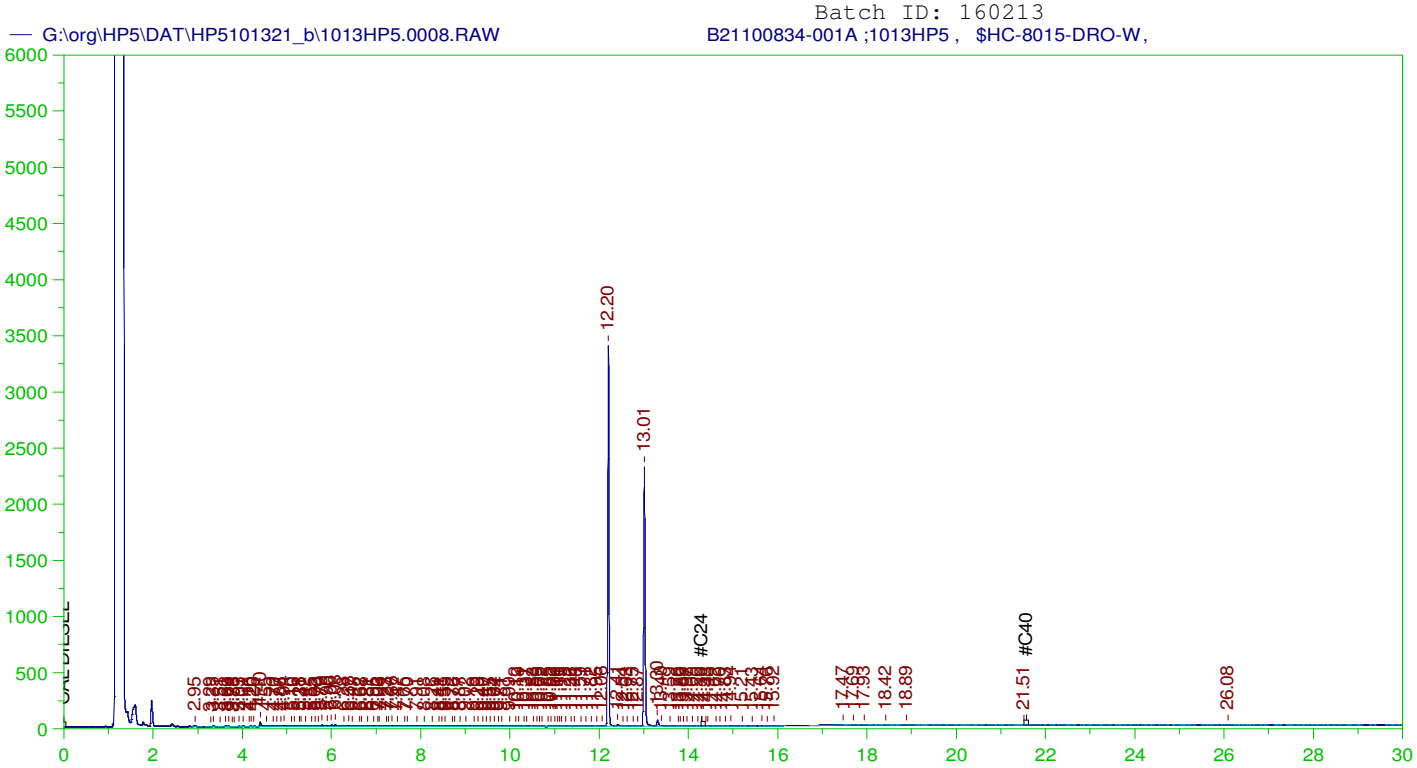
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | .198 | .183 | 92.4 | - |
| *1-Chlorooctadecane | 13.012 | .198 | .146 | 73.62 | - |

DRO Area:732105.1 DRO Amount: 0.024607
TEH Area:1328519 TEH Amount: 4.465324E-02

G:\org\HP5\dat\HP5101321_b\Review\008_B21100834-001A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

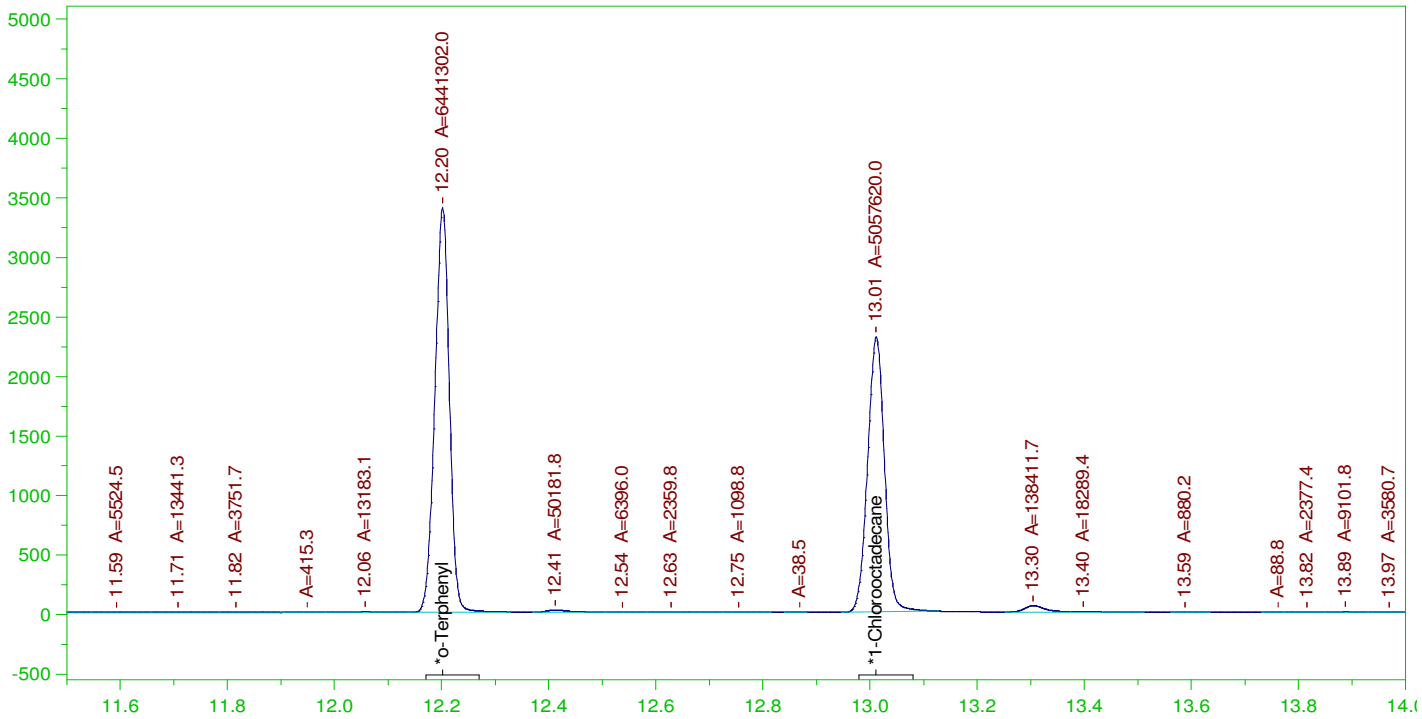
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:98411.37 RRO AMOUNT: 3.413762E-03

G:\org\HP5\dat\HP5101321_b\Review\008_B21100834-001A_DR_OIL-S-AJ-L%.xls

**ERH1771 (RHMW14-03)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW B21100834-001A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

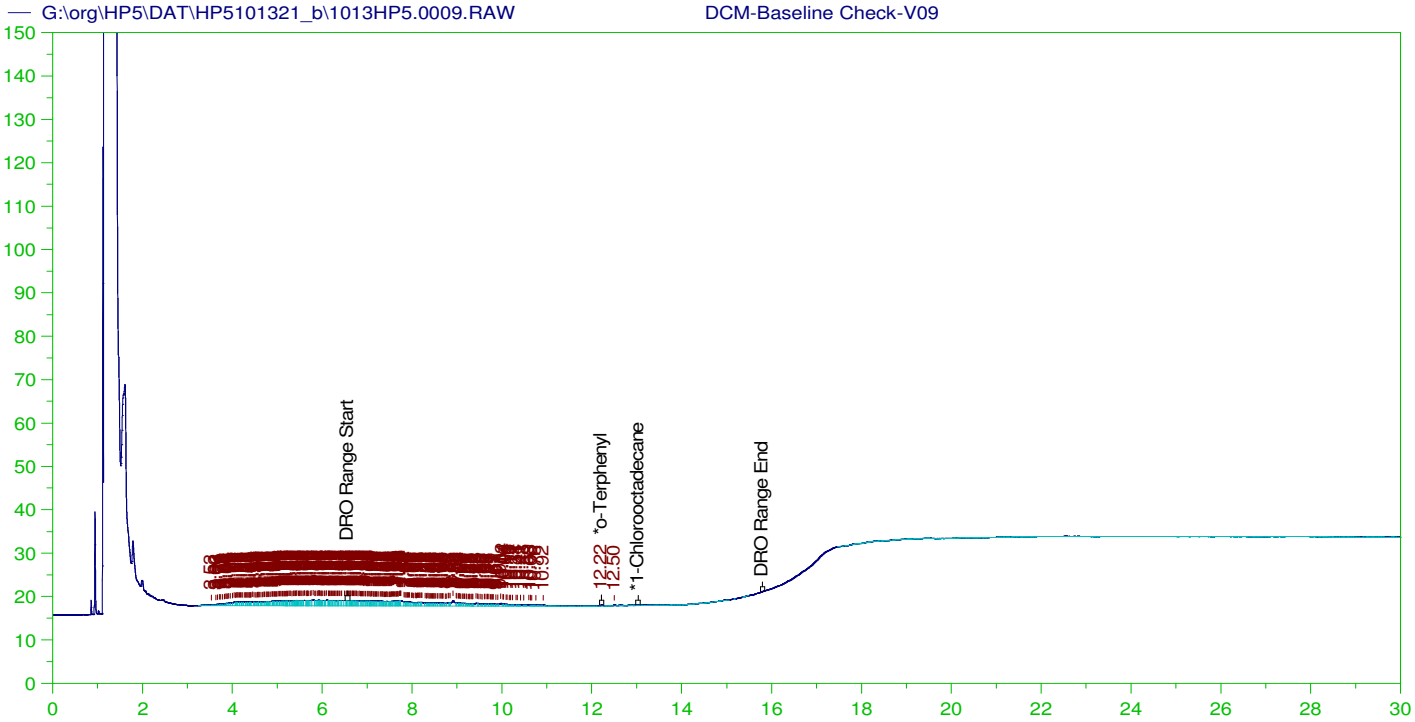
Sample Name: B21100834-001A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0008.RAW
Date & Time Acquired: 10/13/2021 6:53:40 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | .198 | .182 | 91.83 | - |
| *1-Chlorooctadecane | 13.012 | .198 | .143 | 72.1 | - |

DRO Area:677260.6 DRO Amount: 0.0227636
TEH Area:1316540 TEH Amount: 0.0442506

G:\org\HP5\dat\HP5101321_b\Review\008_B21100834-001A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V09
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0009.RAW
Date & Time Acquired: 10/13/2021 7:36:33 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

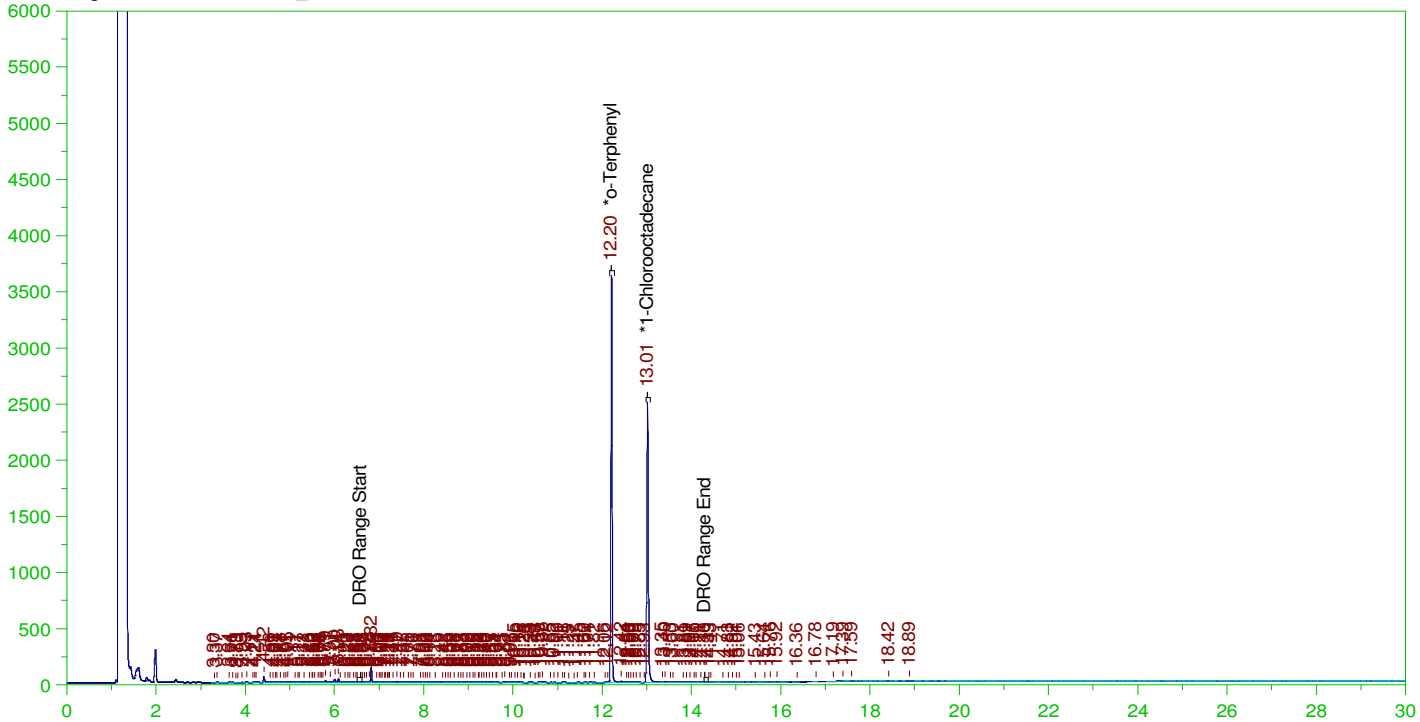
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | .028 | .01 | - |
| *1-Chlorooctadecane | 29.978 | 200. | . | . | - |

DRO Area:213604.1 DRO Amount: 7.251304
TEH Area:398975.3 TEH Amount: 13.54418

G:\org\HP5\dat\HP5101321_b\Review\009_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1773 (Field Blank)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW B21100834-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .19 | .191 | 100.04 | - |
| *1-Chlorooctadecane | 13.014 | .19 | .154 | 80.78 | - |

DRO Area:1014568 DRO Amount: 3.280184E-02
TEH Area:1728863 TEH Amount: 5.589564E-02

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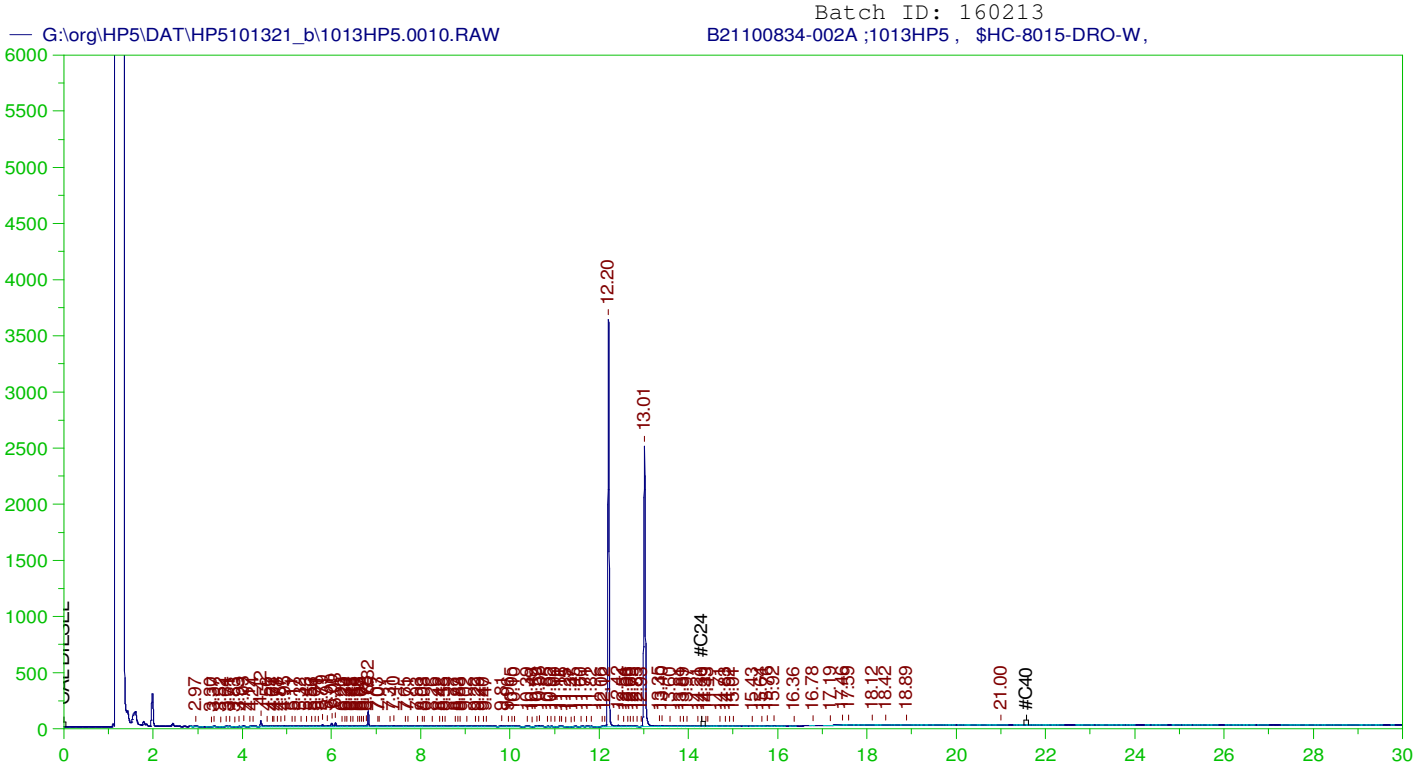
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

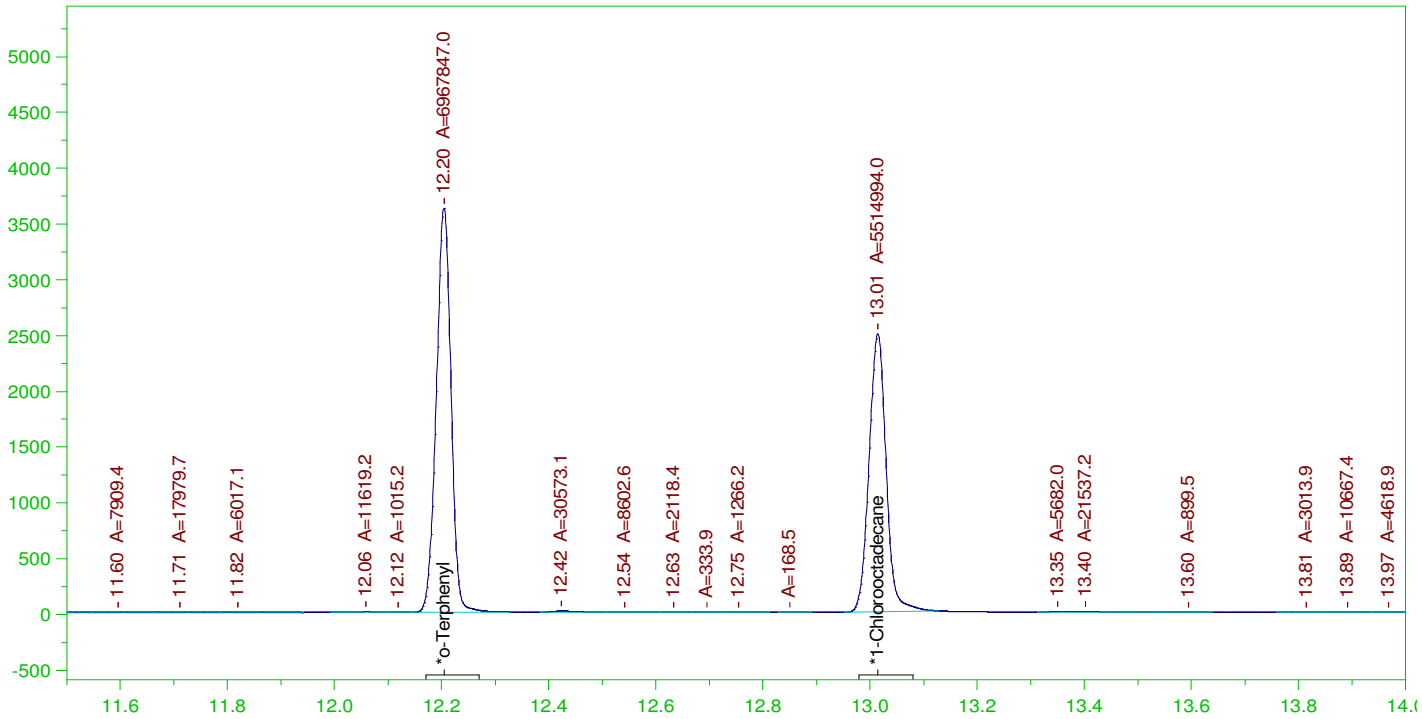
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:72106.56 RRO AMOUNT: 2.405996E-03

G:\org\HP5\dat\HP5101321_b\Review\010_B21100834-002A_DR_OIL-S-AJ-L%.xls

**ERH1773 (Field Blank)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW B21100834-002A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

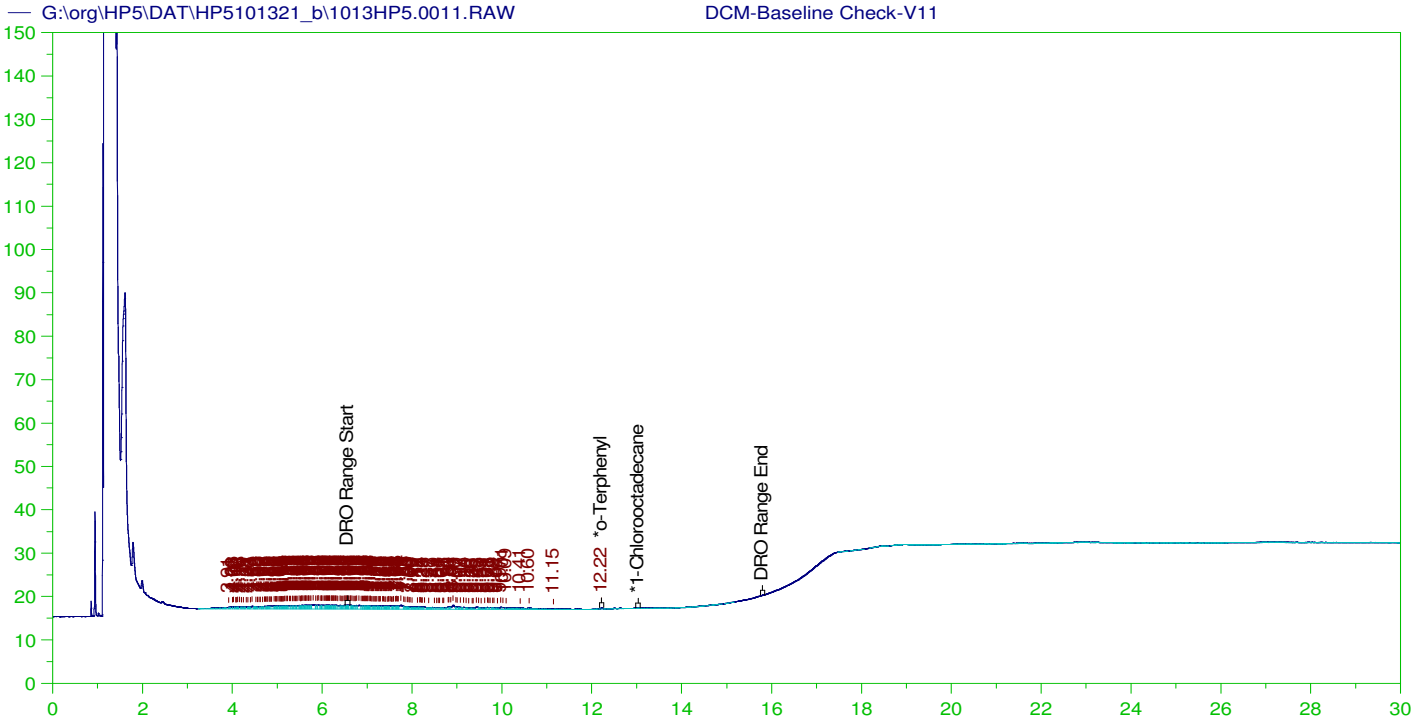
Sample Name: B21100834-002A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0010.RAW
Date & Time Acquired: 10/13/2021 8:19:27 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .19 | .189 | 99.34 | - |
| *1-Chlorooctadecane | 13.014 | .19 | .15 | 78.63 | - |

DRO Area:959395.5 DRO Amount: 3.101808E-02
TEH Area:1750559 TEH Amount: 5.659707E-02

G:\org\HP5\dat\HP5101321_b\Review\010_B21100834-002A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V11
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0011.RAW
Date & Time Acquired: 10/13/2021 9:02:18 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

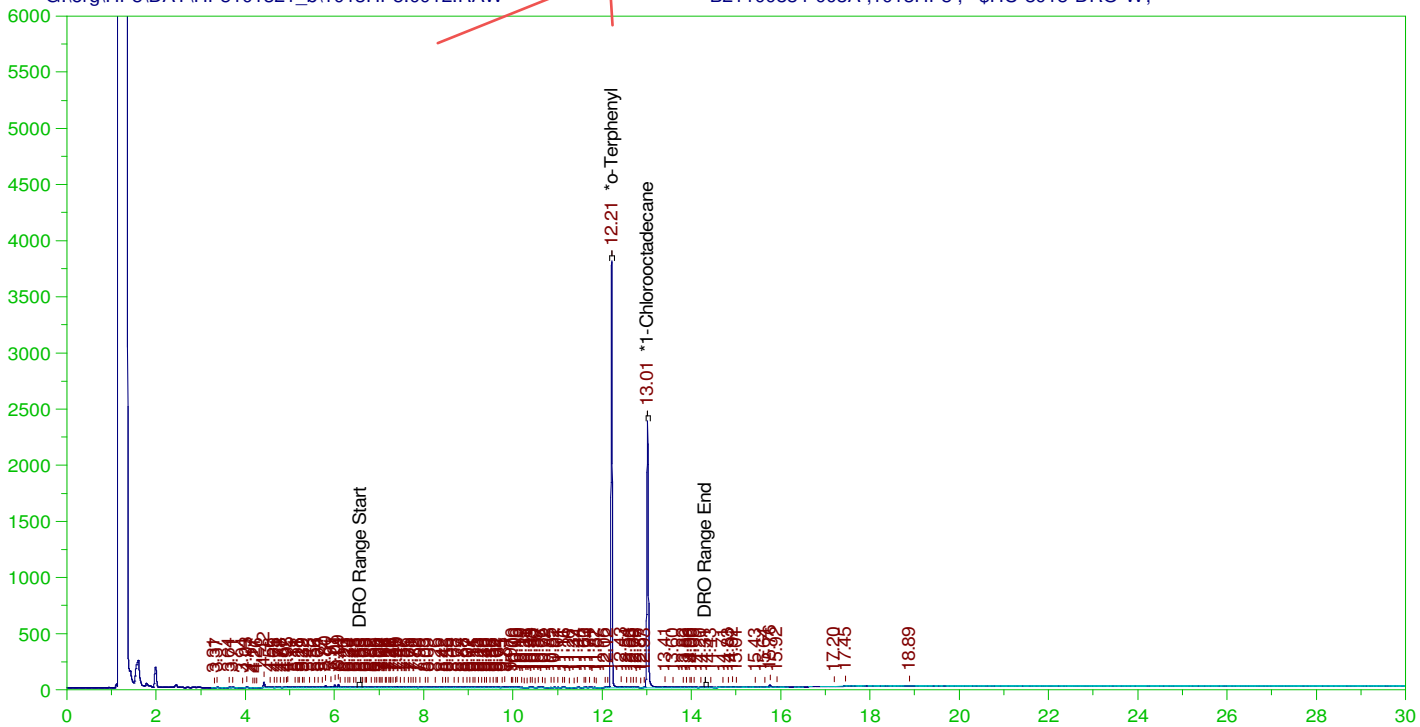
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.215 | 200. | .03 | .02 | - |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | - |

DRO Area:125980.2 DRO Amount: 4.276702
TEH Area:232059.3 TEH Amount: 7.87781

G:\org\HP5\dat\HP5101321_b\Review\011_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1774 (Equipment Blank)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW B21100834-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .192 | .199 | 103.31 | - |
| *1-Chlorooctadecane | 13.015 | .192 | .147 | 76.59 | - |

DRO Area:686756.1 DRO Amount: 2.241691E-02
TEH Area:1382057 TEH Amount: 4.511274E-02

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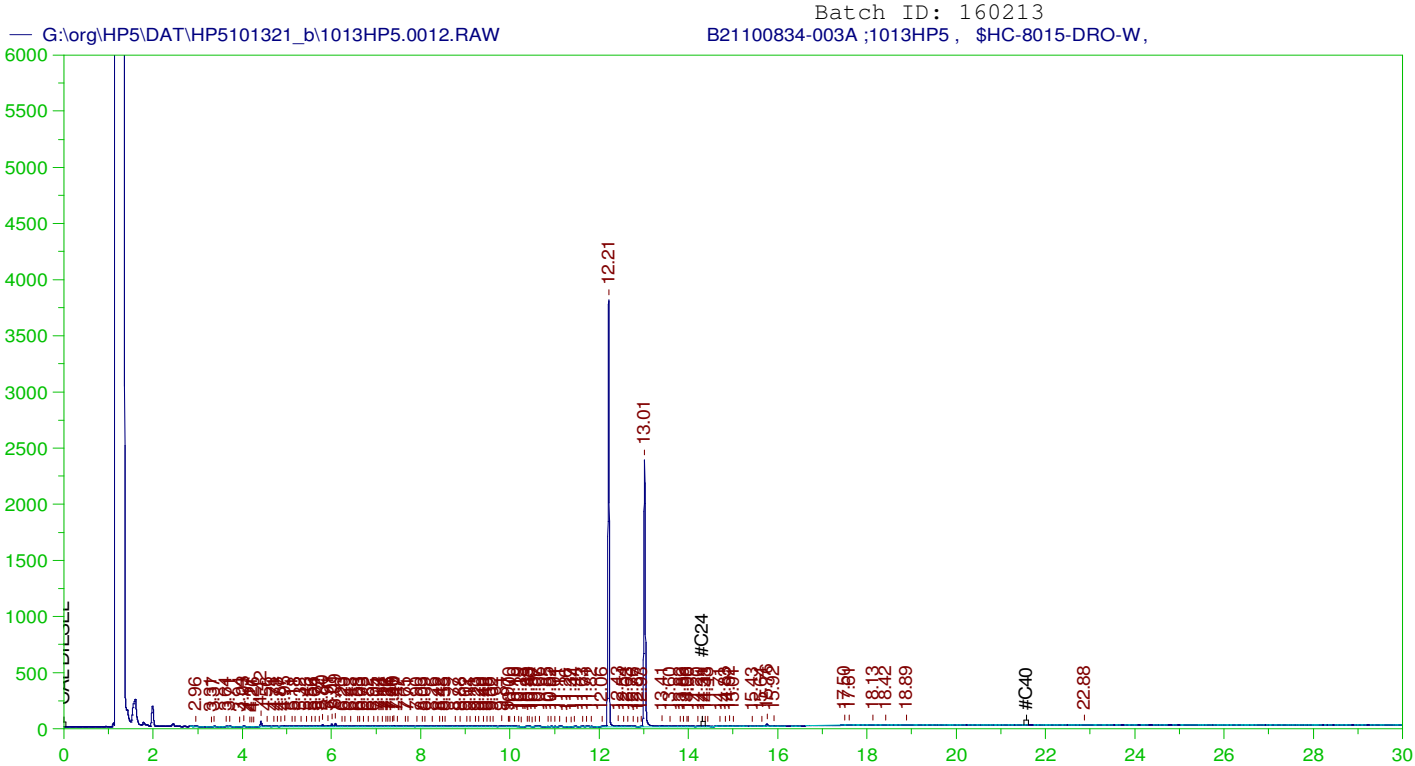
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:140112.2 RRO AMOUNT: 4.72011E-03

G:\org\HP5\dat\HP5101321_b\Review\012_B21100834-003A_DR_OIL-S-AJ-L%.xls

**ERH1774 (Equipment Blank)** Batch ID: 160213

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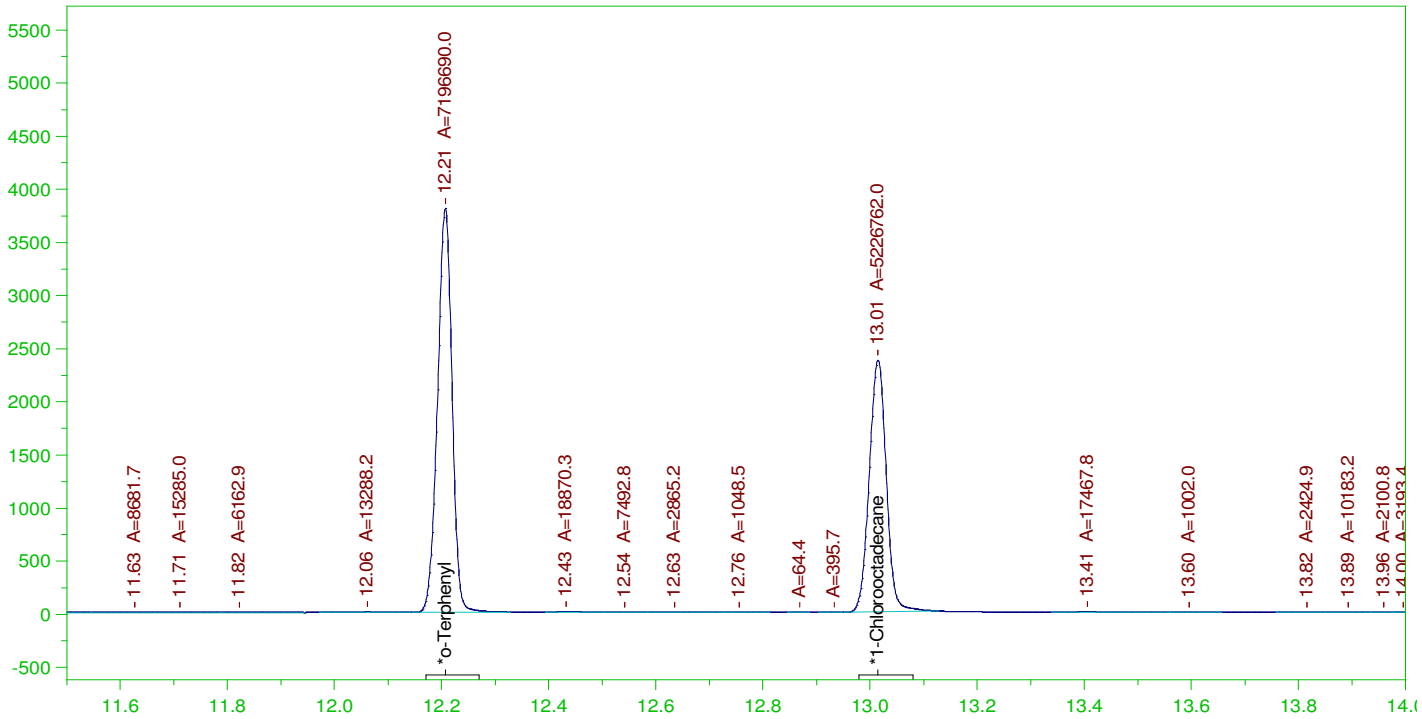



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

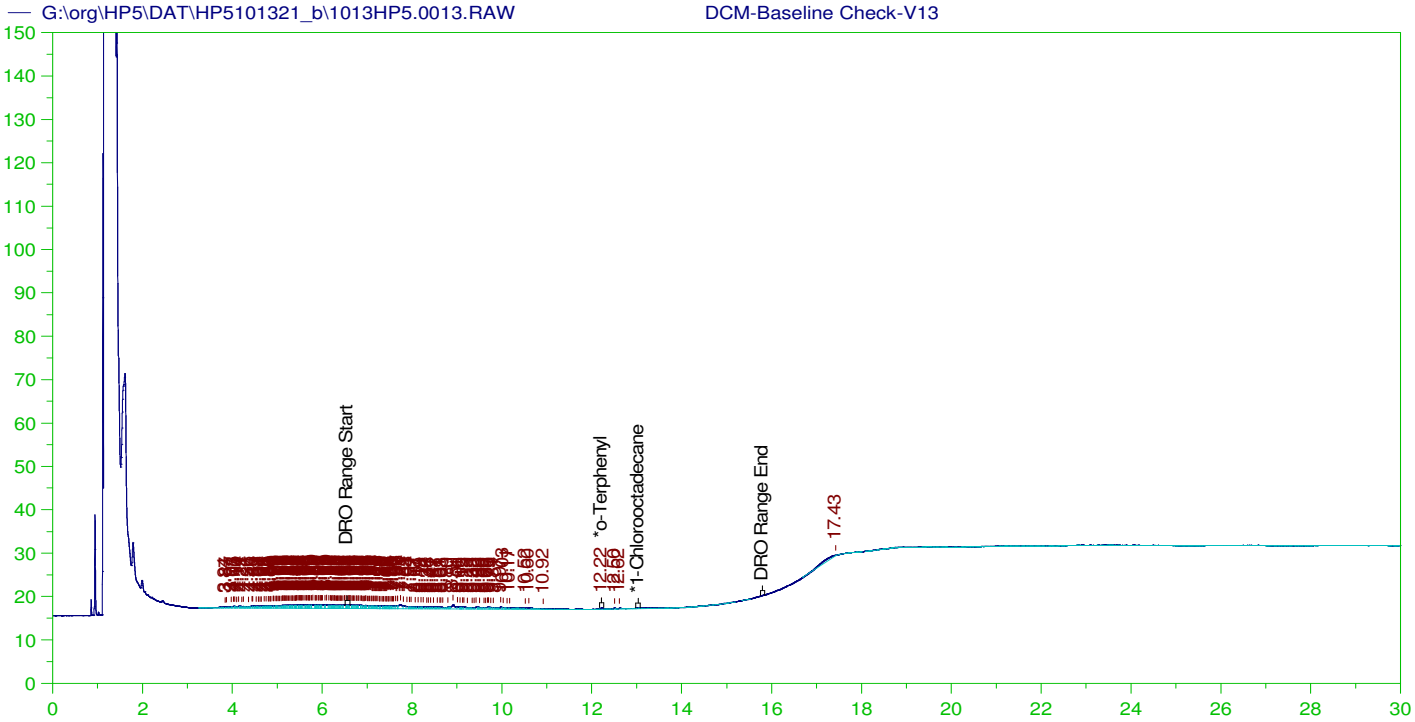
Sample Name: B21100834-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0012.RAW
Date & Time Acquired: 10/13/2021 9:45:11 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .192 | .197 | 102.6 | - |
| *1-Chlorooctadecane | 13.015 | .192 | .143 | 74.52 | - |

DRO Area:683442.3 DRO Amount: 2.230874E-02
TEH Area:1372858 TEH Amount: 4.481247E-02

G:\org\HP5\dat\HP5101321_b\Review\012_B21100834-003A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

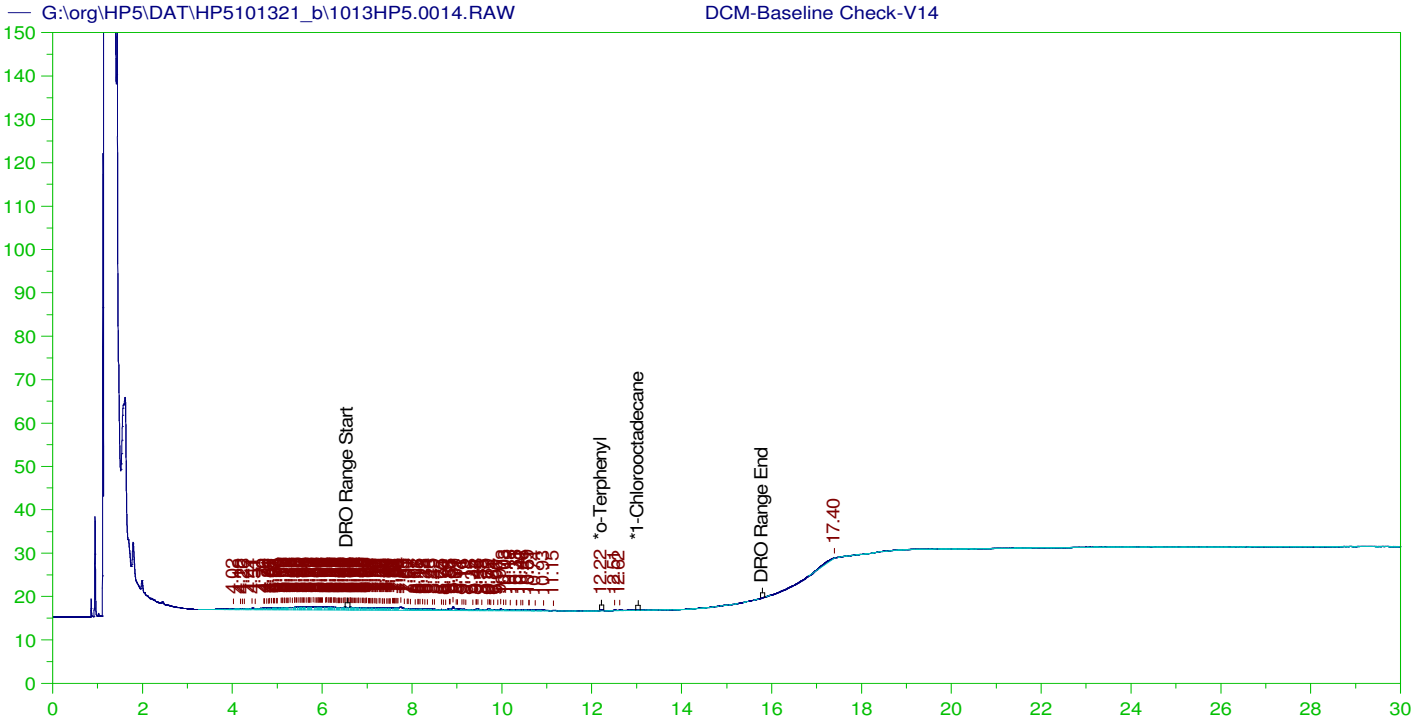
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0013.RAW
Date & Time Acquired: 10/13/2021 10:27:57 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.217 | 200. | .037 | .02 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:124999.8 DRO Amount: 4.24342
TEH Area:238903.8 TEH Amount: 8.110163

G:\org\HP5\dat\HP5101321_b\Review\013_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0014.RAW
Date & Time Acquired: 10/13/2021 11:10:47 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

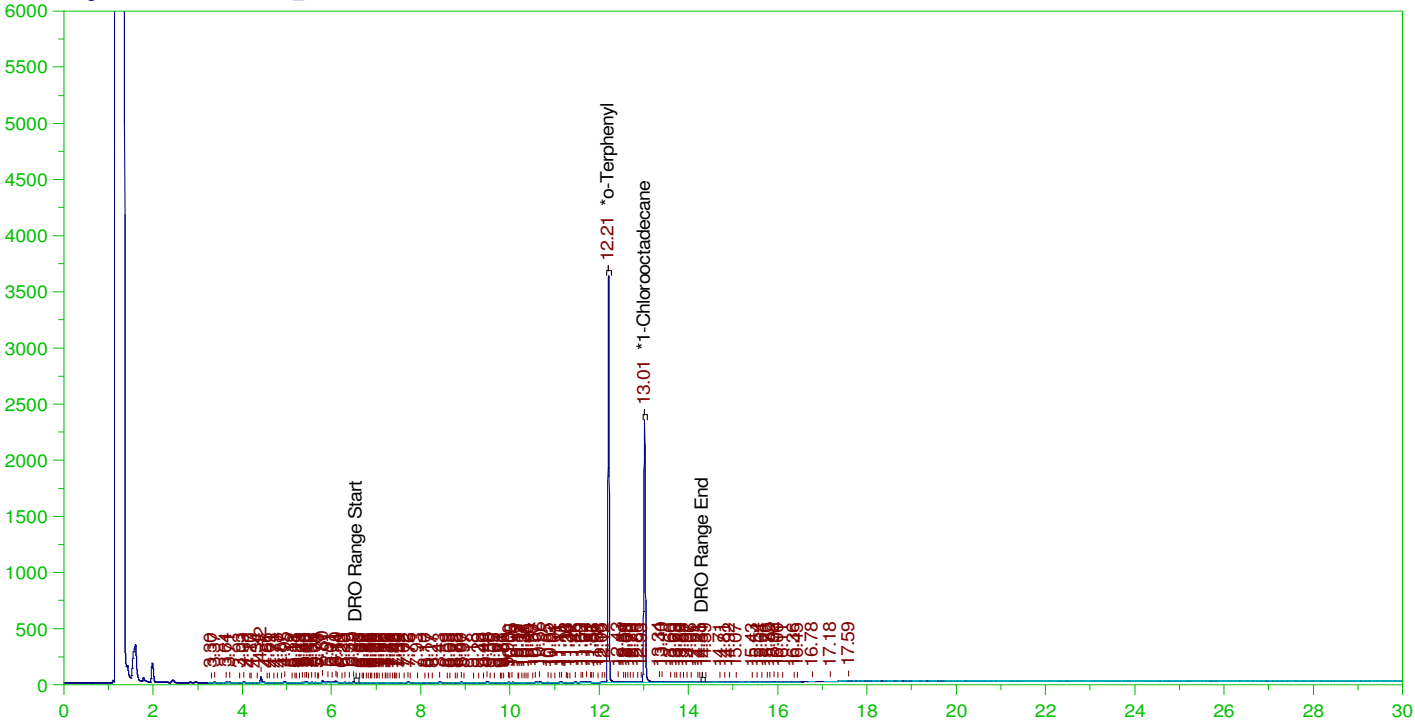
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.216 | 200. | .038 | .02 | - |
| *1-Chlorooctadecane | 29.974 | 200. | . | . | - |

DRO Area:113632.2 DRO Amount: 3.857517
TEH Area:202332.9 TEH Amount: 6.868678

G:\org\HP5\dat\HP5101321_b\Review\014_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

**ERH1779 (Prechlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW B21100827-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

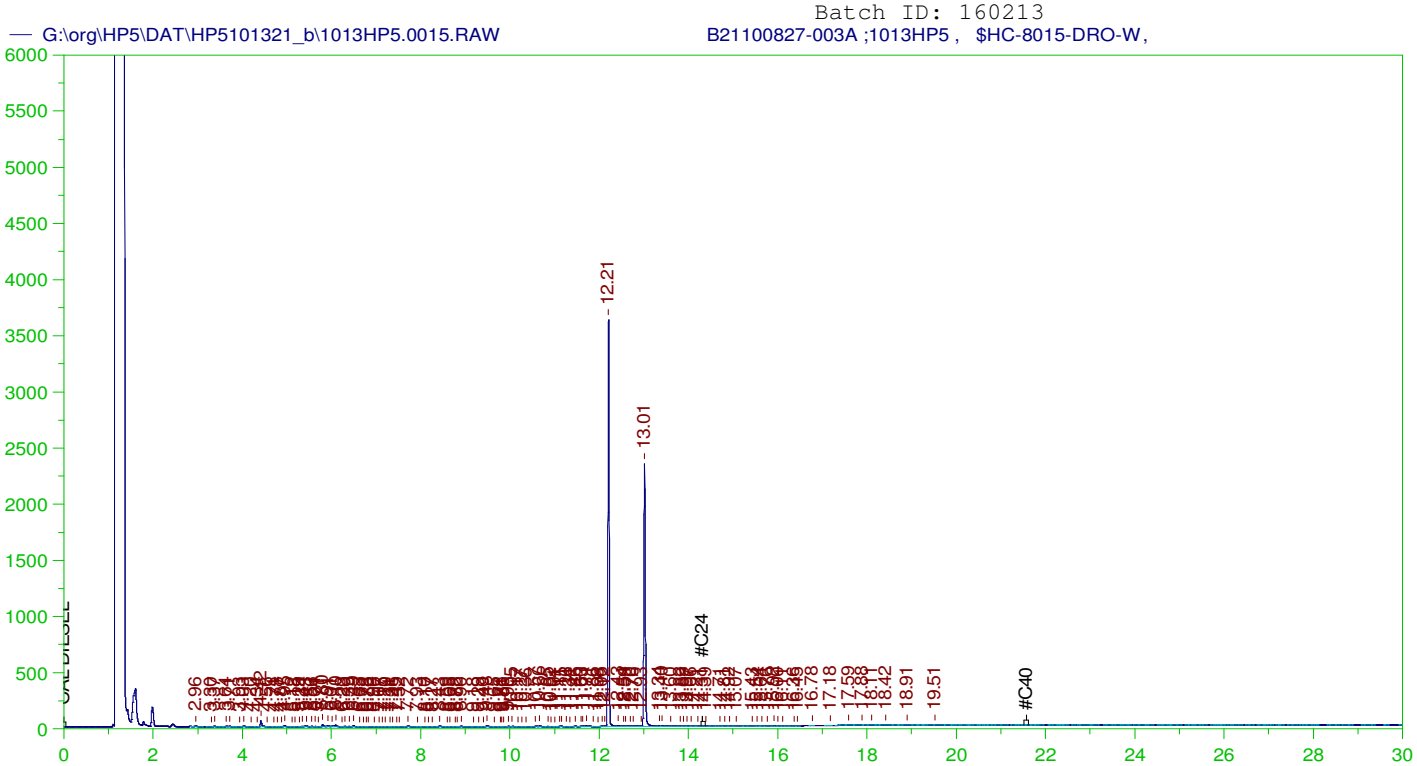
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.206 | .192 | .193 | 100.4 | - |
| *1-Chlorooctadecane | 13.014 | .192 | .144 | 74.93 | - |

DRO Area:452972.2 DRO Amount: 0.0147858
TEH Area:986708.3 TEH Amount: 3.220787E-02

G:\org\HP5\dat\HP5101321_b\Review\015_B21100827-003A_DR_8015-C24-HS-L%.xls

Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

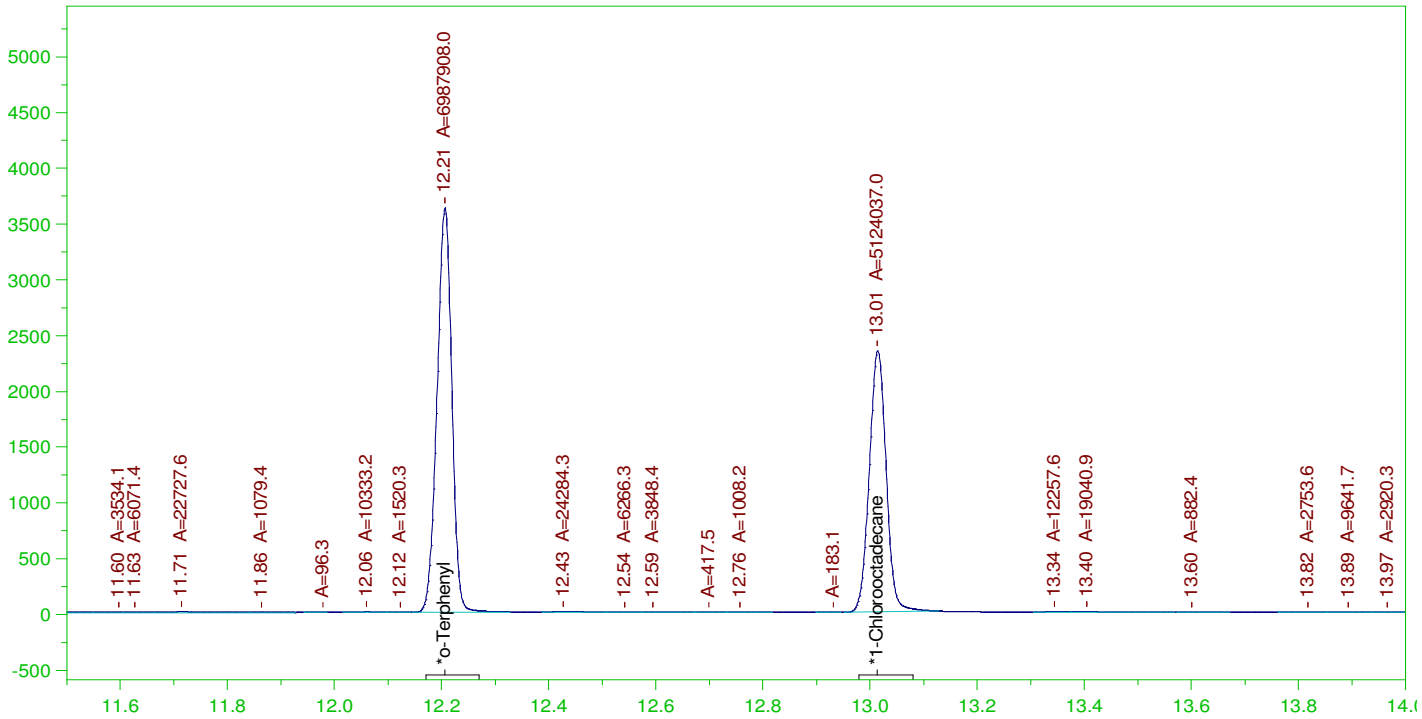
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.28 to 21.62

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:75508.58 RRO AMOUNT: 2.543738E-03

**ERH1779 (Prechlorination)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW B21100827-003A ;1013HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

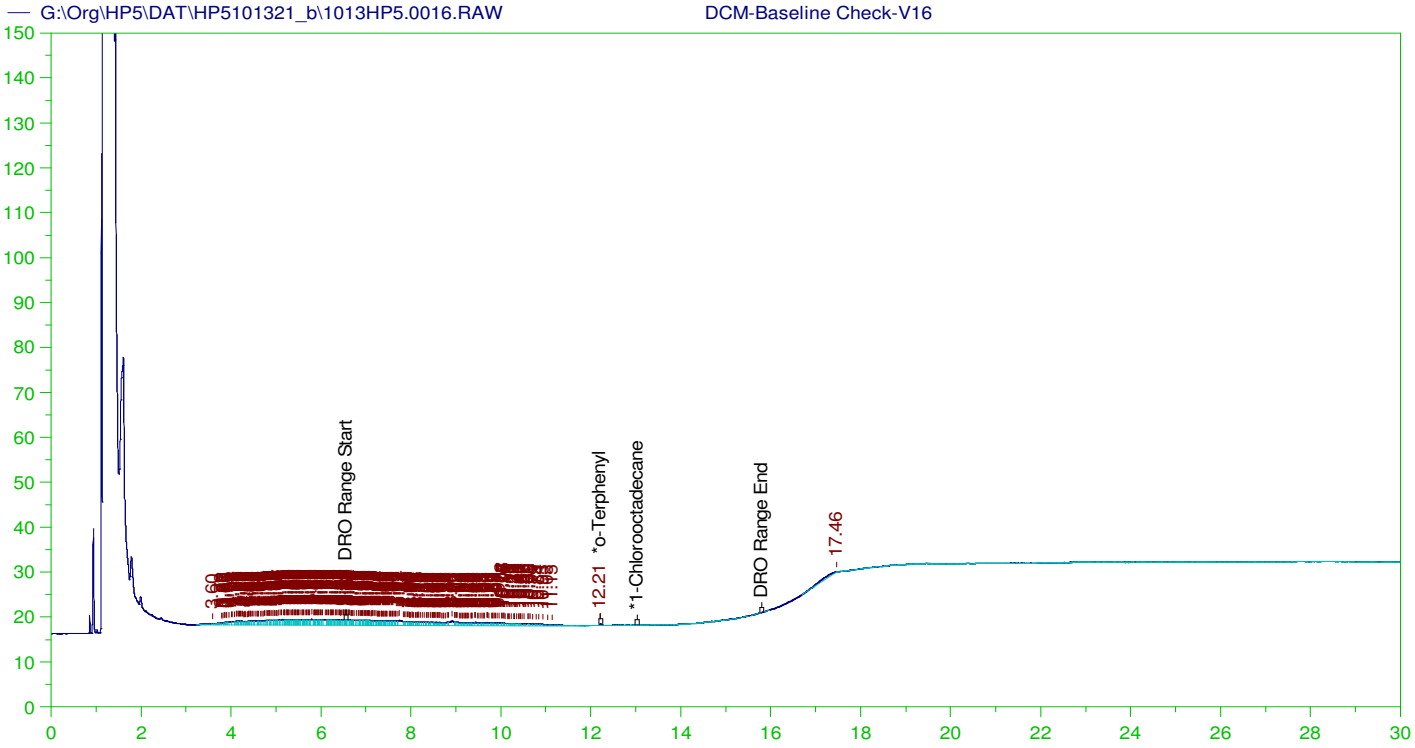
Sample Name: B21100827-003A ;1013HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0015.RAW
Date & Time Acquired: 10/13/2021 11:53:35 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.206 | .192 | .192 | 99.62 | - |
| *1-Chlorooctadecane | 13.014 | .192 | .14 | 73.05 | - |

DRO Area:364376.3 DRO Amount: 1.189388E-02
TEH Area:937746.3 TEH Amount: 3.060967E-02

G:\org\HP5\dat\HP5101321_b\Review\015_B21100827-003A_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

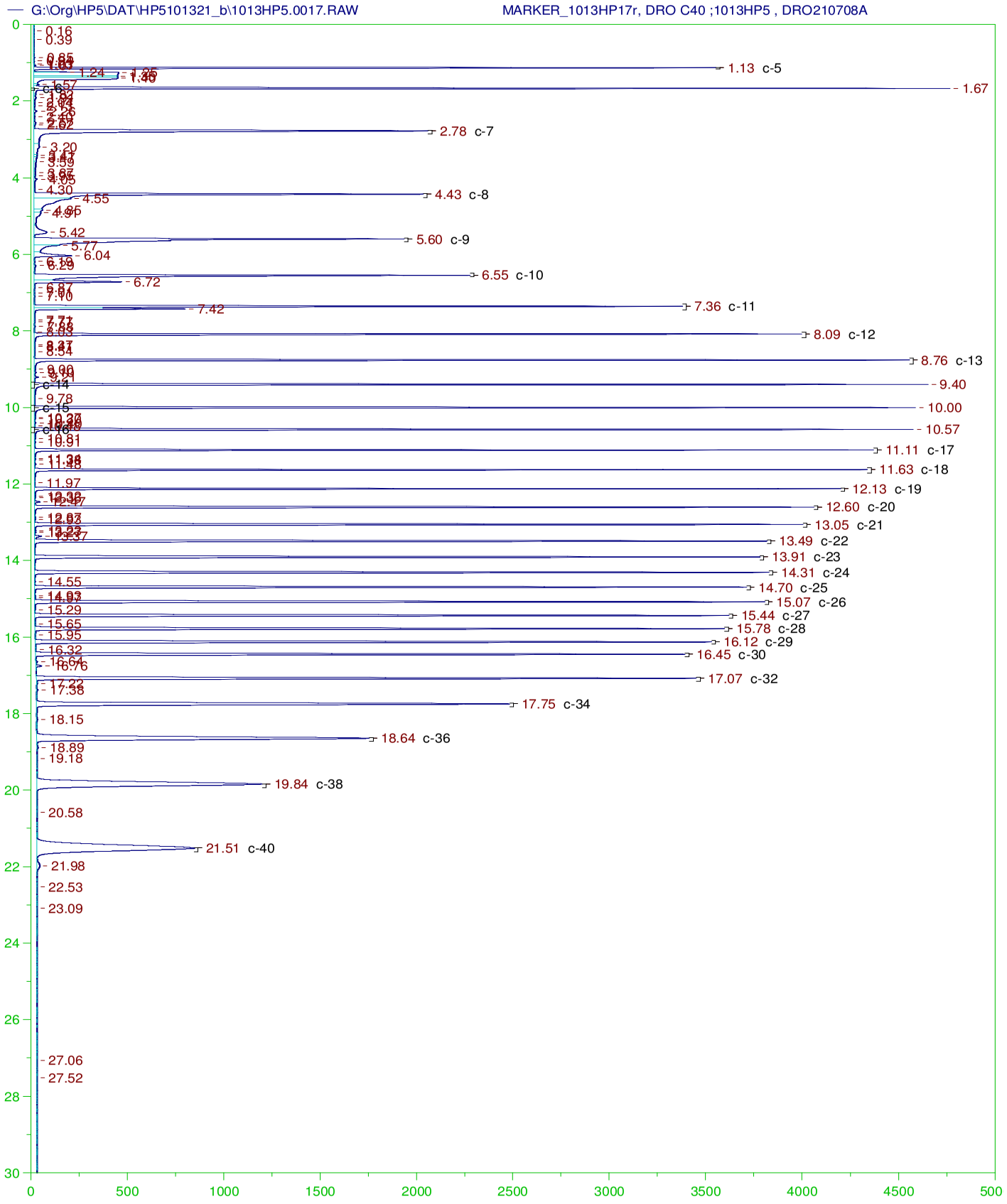
Sample Name: DCM-Baseline Check-V16
Raw File: G:\Org\HP5\DAT\HP5101321_b\1013HP5.0016.RAW
Date & Time Acquired: 10/14/2021 12:36:25 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-Lexp.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

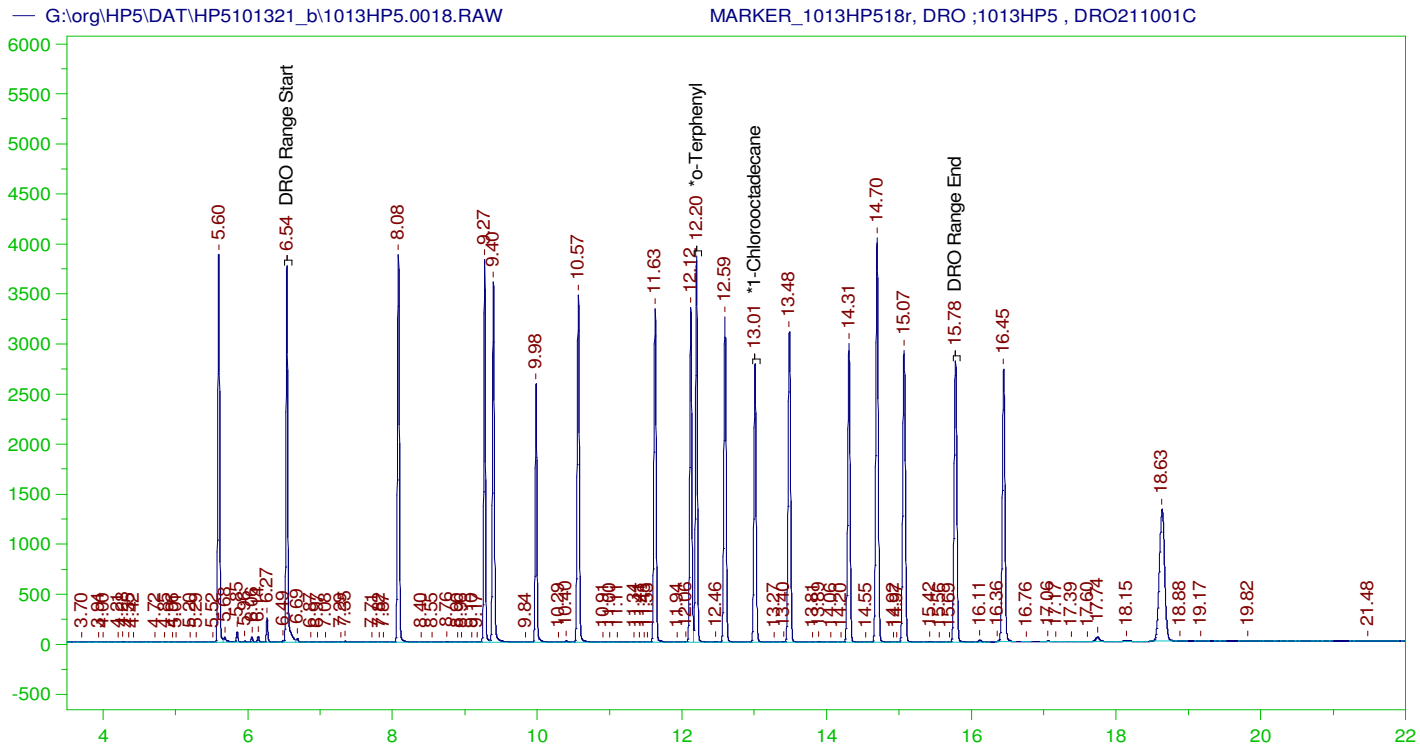
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.211 | 200. | .044 | .02 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:196251.2 DRO Amount: 6.662218
TEH Area:379018 TEH Amount: 12.86668

G:\org\HP5\dat\HP5101321_b\Review\016_DCM-Baseline Chec_DR_8015-HS-Lexp.xls


G:\Org\HP5\DAT\HP5101321_b\1013HP5.0017.RAW
MARKER_1013HP17r, DRO C40 ;1013HP5 , DRO210708A
1.13 c-5
1.67
2.78 c-7
4.43 c-8
5.60 c-9
6.55 c-10
7.36 c-11
8.09 c-12
8.76 c-13
9.40
10.00
10.57
11.11 c-17
11.63 c-18
12.13 c-19
12.60 c-20
13.05 c-21
13.49 c-22
13.91 c-23
14.31 c-24
14.70 c-25
15.07 c-26
15.44 c-27
15.78 c-28
16.12 c-29
16.45 c-30
17.07 c-32
17.75 c-34
18.64 c-36
19.84 c-38
21.51 c-40
G:\org\HP5\dat\HP5101321_b\Review\017_MARKER_1013HP17r_CSC211011.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

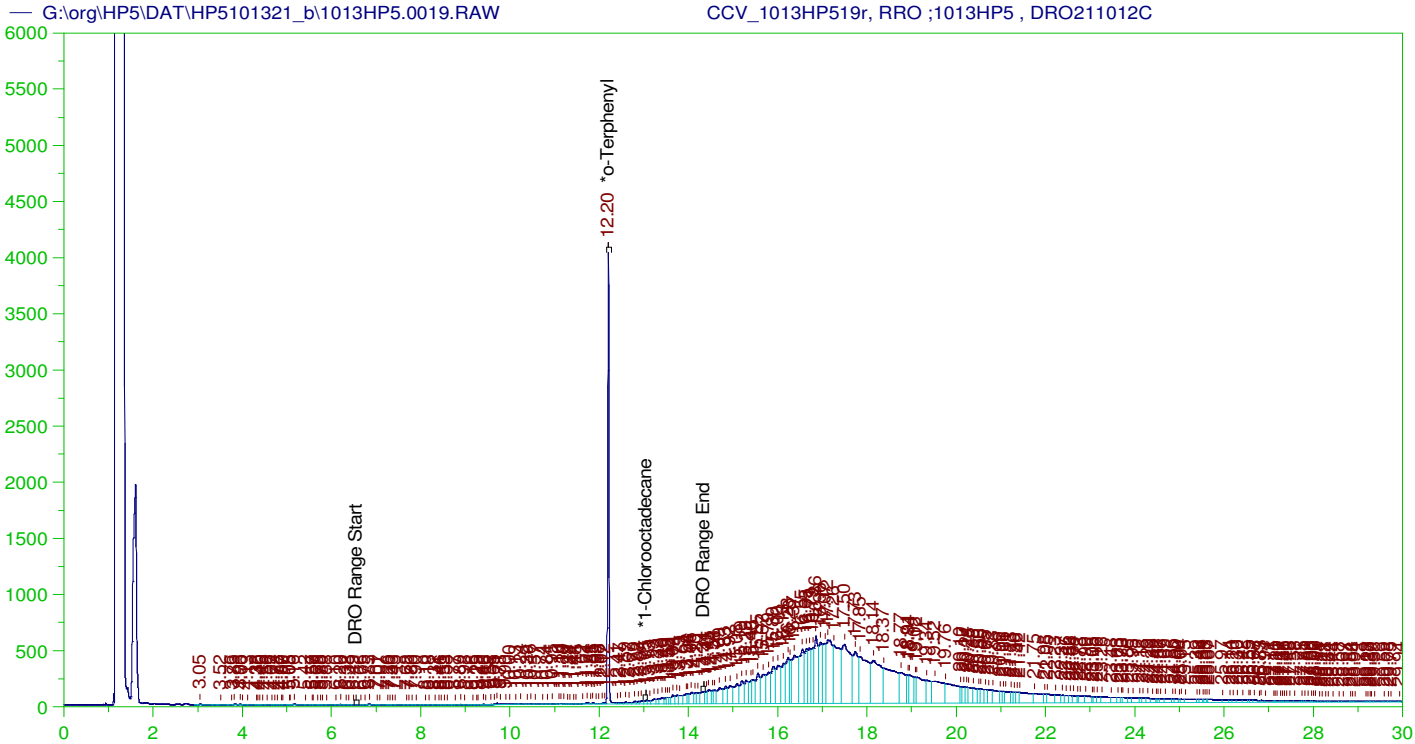
Sample Name: MARKER_1013HP518r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0018.RAW
Date & Time Acquired: 10/14/2021 2:01:56 AM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 210.929 | 105.46 | - |
| *1-Chlorooctadecane | 13.01 | 200. | 170.869 | 85.43 | - |

DRO Area:9.643527E+07 DRO Amount: 3273.727
TEH Area:1.179968E+08 TEH Amount: 4005.684

G:\org\HP5\dat\HP5101321_b\Review\018_MARKER_1013HP518r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP519r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW
Date & Time Acquired: 10/14/2021 2:44:39 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 225.67 | 112.84 | - |
| *1-Chlorooctadecane | 13.05 | 200. | 4.38 | 2.19 | - |

DRO Area:6668142 DRO Amount: 233.6222
TEH (Oil Range) Area:1.354669E+08 TEH (Oil Range) Amount: 4746.161

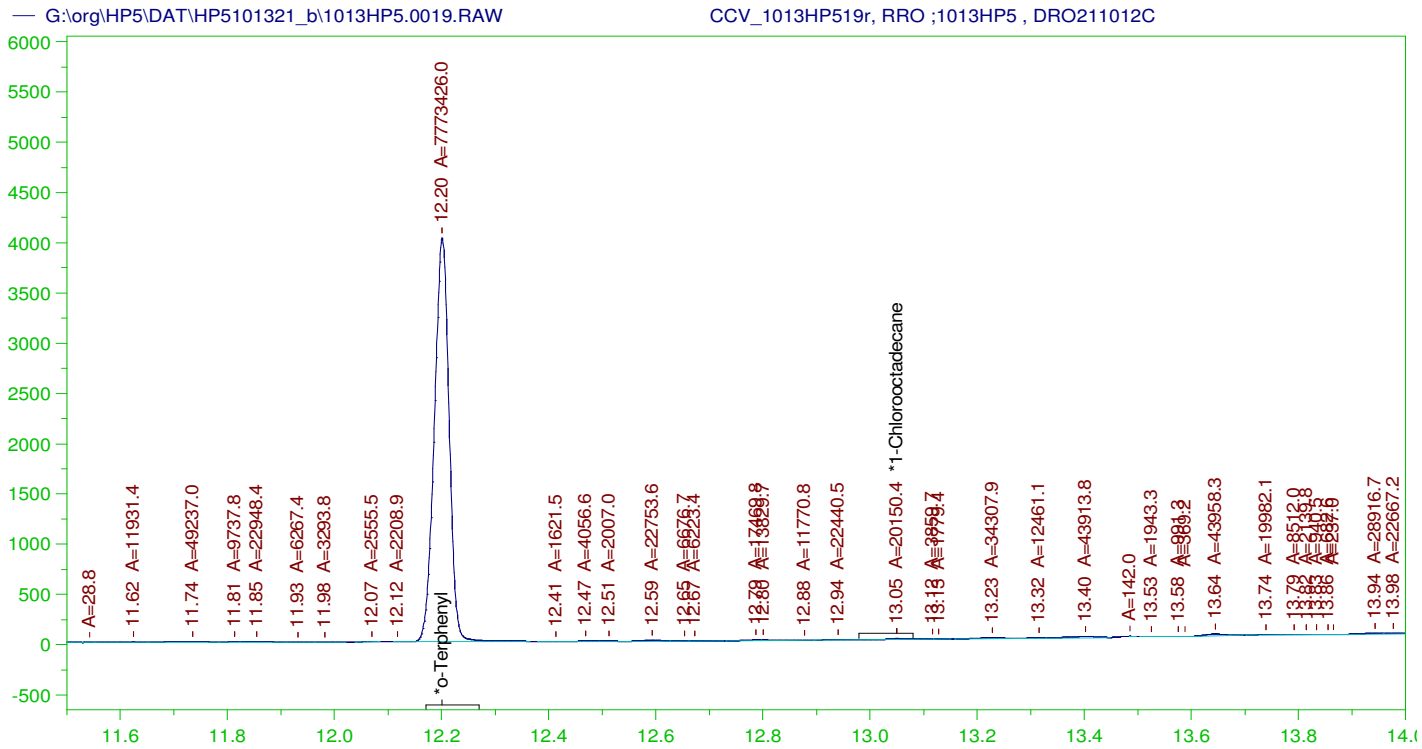
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4746.16 | 94.92 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 225.67 | 112.84 | 85-115 |
| *1-Chlorooctadecane | 13.05 | 200. | 4.38 | 2.19 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\019_CCV_1013HP519r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP519r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW
Date & Time Acquired: 10/14/2021 2:44:39 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 221.647 | 110.82 | - |
| *1-Chlorooctadecane | 13.05 | 200. | .575 | .29 | - |

DRO Area:830514.8 DRO Amount: 29.09757
TEH Area:2146539 TEH Amount: 75.20523

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 75.21 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | 200. | 221.647 | 110.82 | 85-115 |
| *1-Chlorooctadecane | 13.05 | 200. | .575 | .29 | 85-115 |

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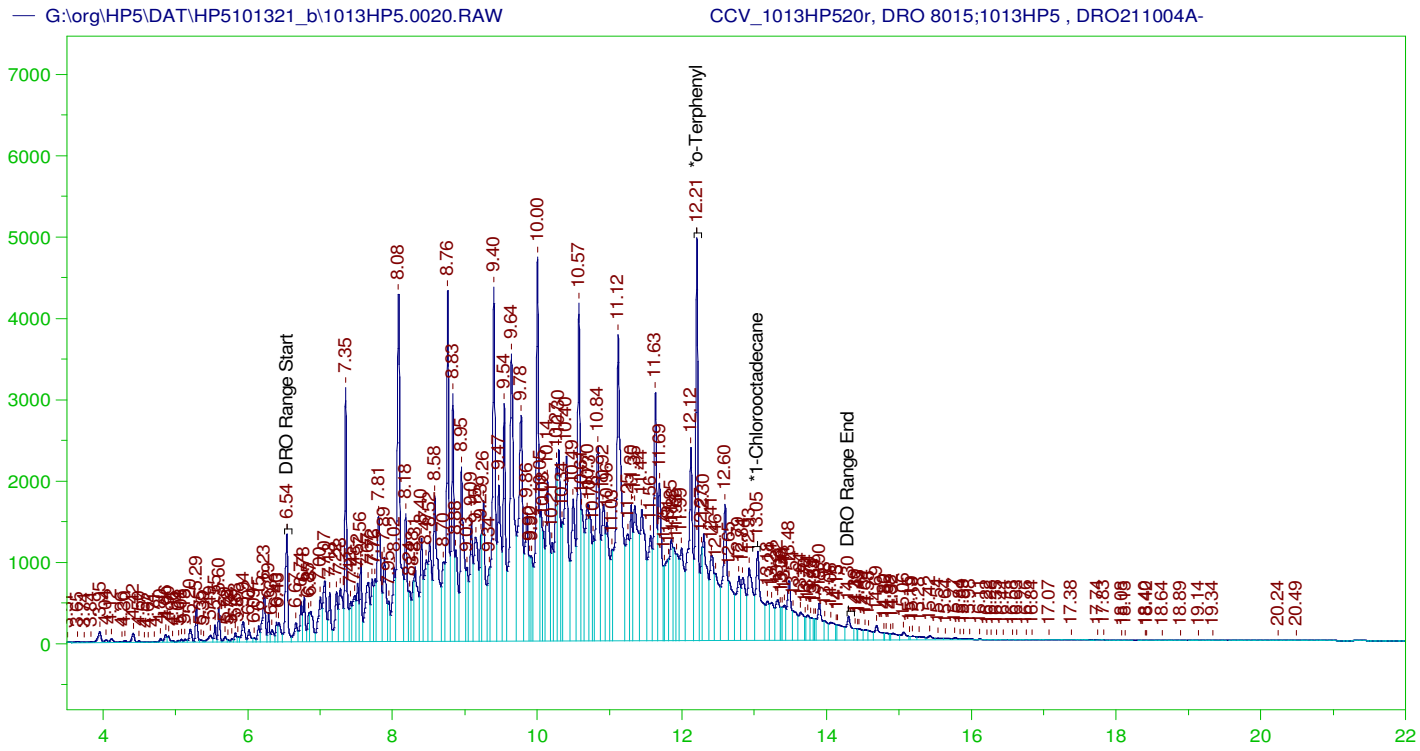


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW
Date & Time Acquired: 10/14/2021 3:27:25 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 352.976 | 176.49 | - |
| *1-Chlorooctadecane | 13.045 | 200. | 159.505 | 79.75 | - |

DRO Area:4.642708E+08 DRO Amount: 15760.79
TEH Area:4.811138E+08 TEH Amount: 16332.56

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16332.56 | 108.88 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 352.976 | 176.49 | 85-115 |
| *1-Chlorooctadecane | 13.045 | 200. | 159.505 | 79.75 | 85-115 |

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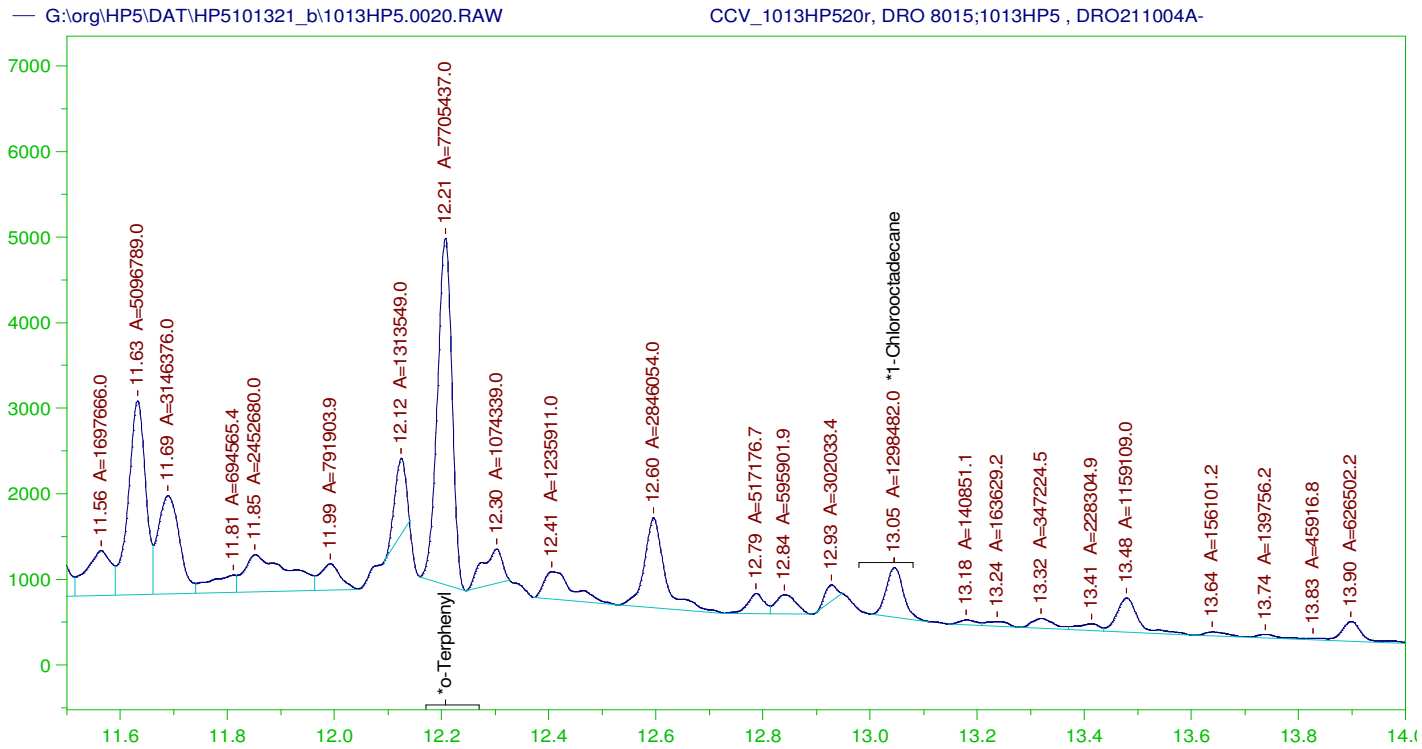


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW
Date & Time Acquired: 10/14/2021 3:27:25 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 219.708 | 109.85 | - |
| *1-Chlorooctadecane | 13.045 | 200. | 37.024 | 18.51 | - |

DRO Area:2.587795E+08 DRO Amount: 8784.894
TEH Area:2.68636E+08 TEH Amount: 9119.495

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9119.5 | 60.8 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 219.708 | 109.85 | 85-115 |
| *1-Chlorooctadecane | 13.045 | 200. | 37.024 | 18.51 | 85-115 |

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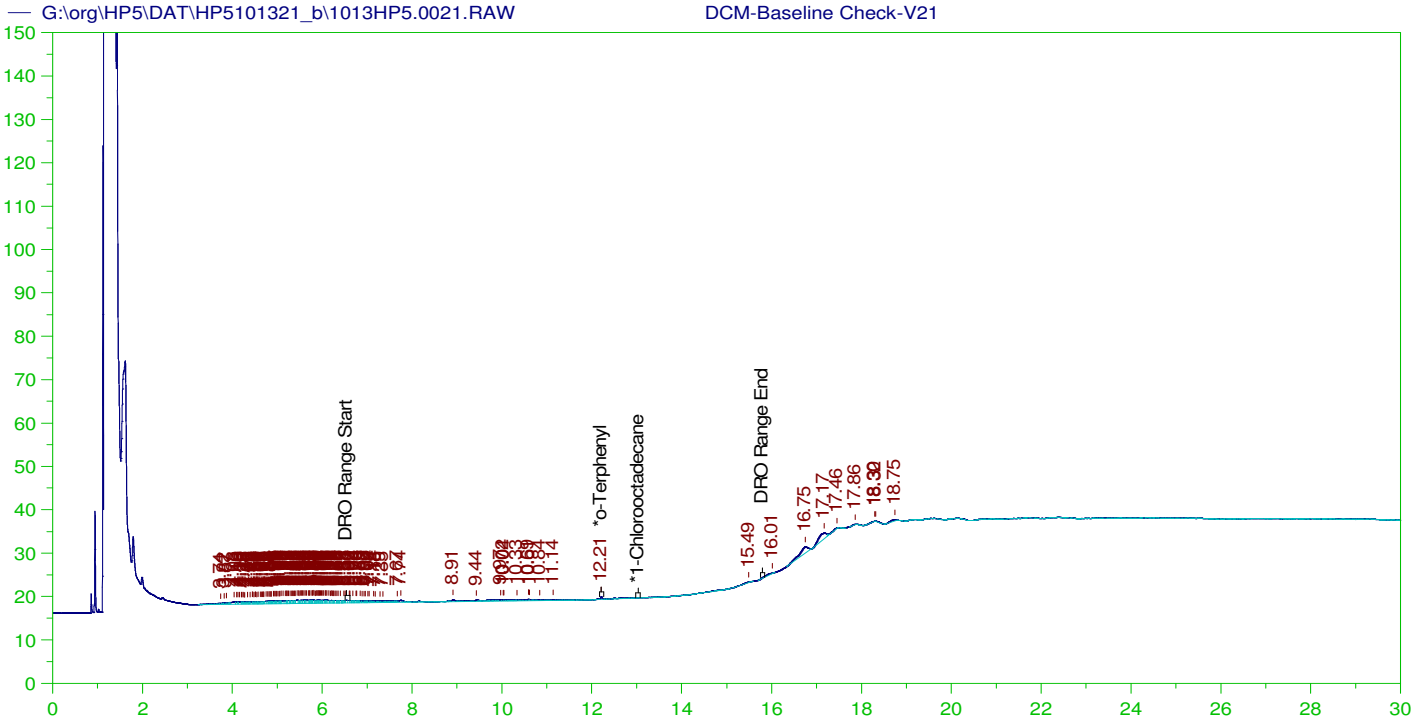



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V21
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0021.RAW
Date & Time Acquired: 10/14/2021 4:10:09 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

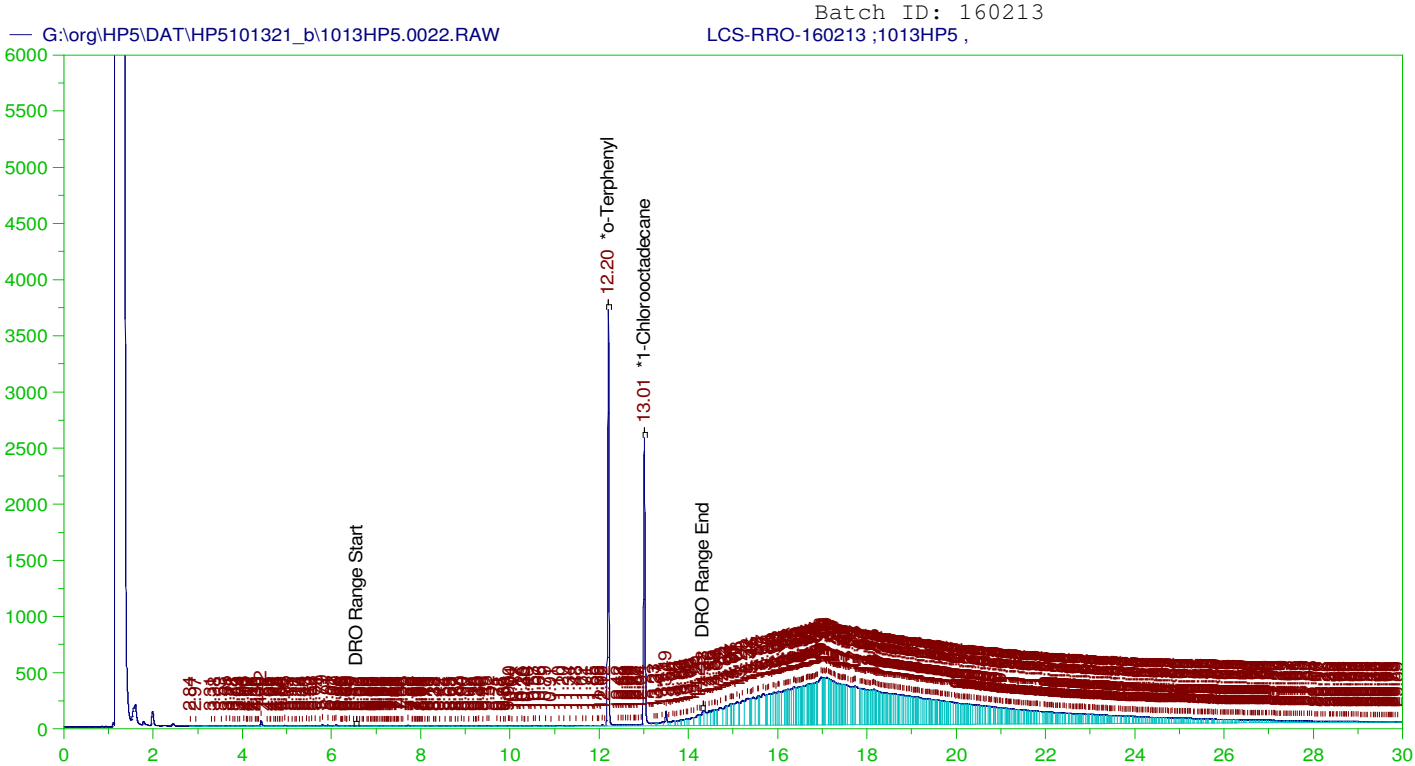
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.205 | 200. | .054 | .03 | - |
| *1-Chlorooctadecane | 29.994 | 200. | . | . | - |

DRO Area:69726.66 DRO Amount: 2.367039
TEH Area:224337.8 TEH Amount: 7.615685

G:\org\HP5\dat\HP5101321_b\Review\021_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-RRO-160213 ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0022.RAW
Date & Time Acquired: 10/14/2021 4:52:52 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | .2 | .206 | 102.76 | - |
| *1-Chlorooctadecane | 13.01 | .2 | .165 | 82.6 | - |

DRO Area:4899232 DRO Amount: 0.1716474
TEH (Oil Range) Area:1.333335E+08 TEH (Oil Range) Amount: 4.671418

AMN 10/21/2021

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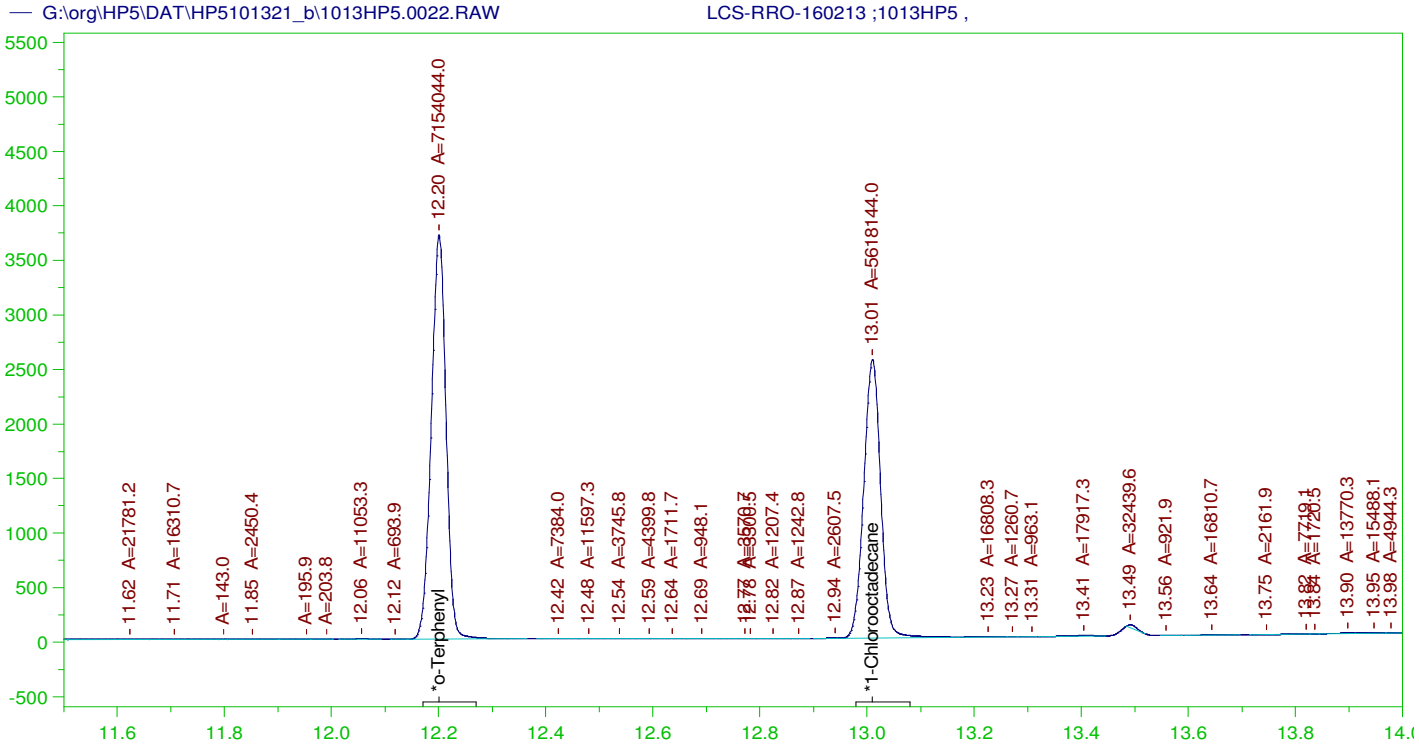
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

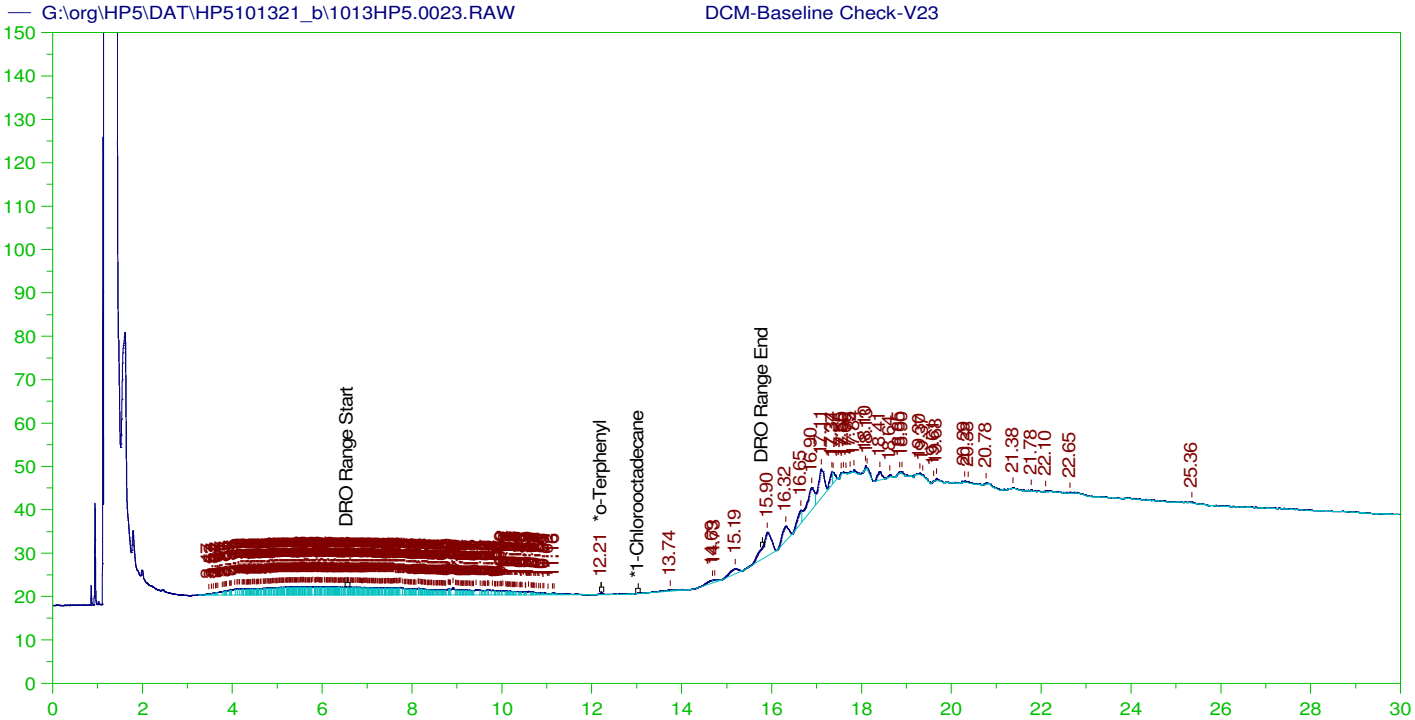
Sample Name: LCS-RRO-160213 ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0022.RAW
Date & Time Acquired: 10/14/2021 4:52:52 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | .2 | .204 | 101.99 | - |
| *1-Chlorooctadecane | 13.01 | .2 | .16 | 80.1 | - |

DRO Area:864747.1 DRO Amount: 3.029692E-02
TEH Area:2774749 TEH Amount: 9.721494E-02

G:\org\HP5\dat\HP5101321_b\Review\022_LCS-RRO-160213_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V23
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0023.RAW
Date & Time Acquired: 10/14/2021 5:35:35 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

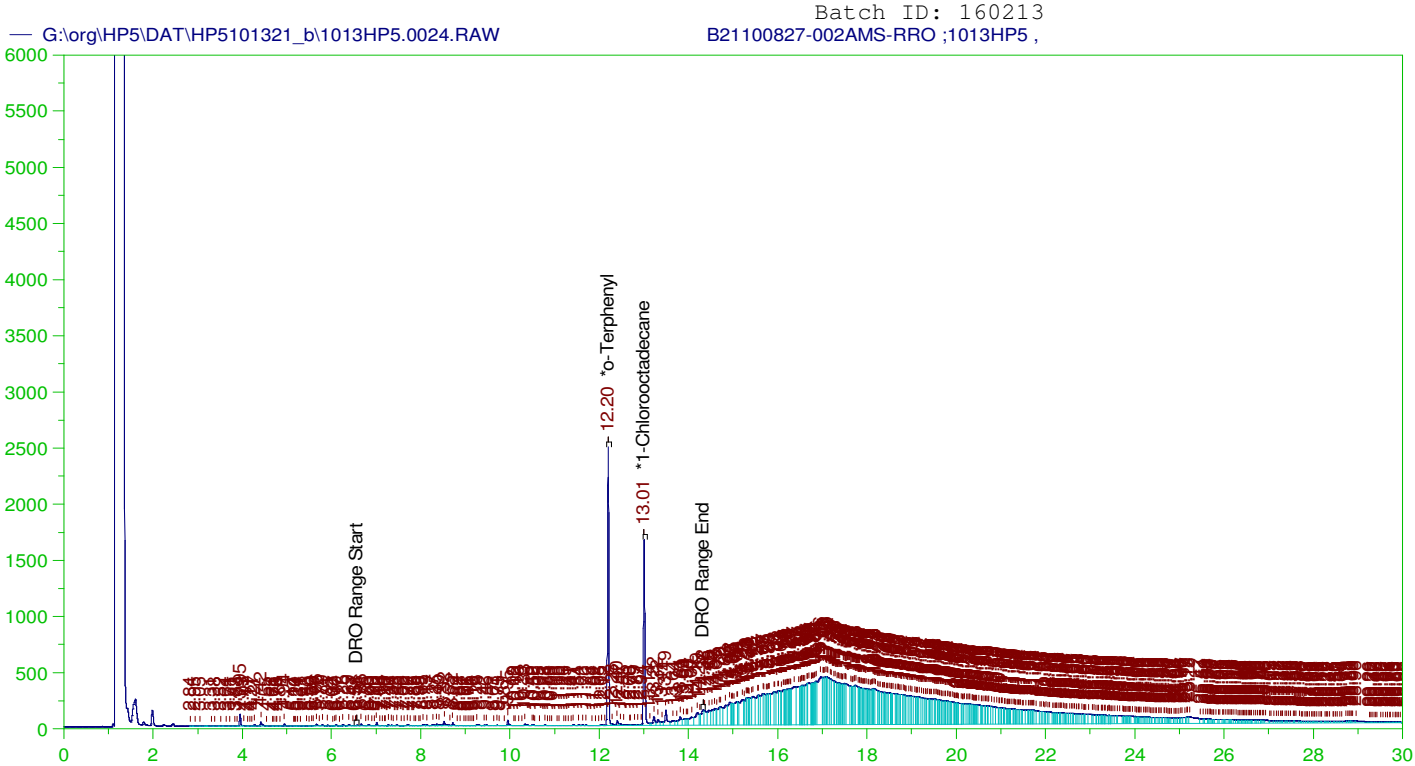
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.209 | 200. | .056 | .03 | - |
| *1-Chlorooctadecane | 29.943 | 200. | . | . | - |

DRO Area:365605.4 DRO Amount: 12.41136
TEH Area:990599.7 TEH Amount: 33.62829

G:\org\HP5\dat\HP5101321_b\Review\023_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0024.RAW
Date & Time Acquired: 10/14/2021 6:18:21 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.197 | .388 | .266 | 68.47 | - |
| *1-Chlorooctadecane | 13.007 | .388 | .209 | 53.71 | - |

DRO Area:6764887 DRO Amount: 0.460217
TEH (Oil Range) Area:1.375272E+08 TEH (Oil Range) Amount: 9.356012

AMN 10/21/2021

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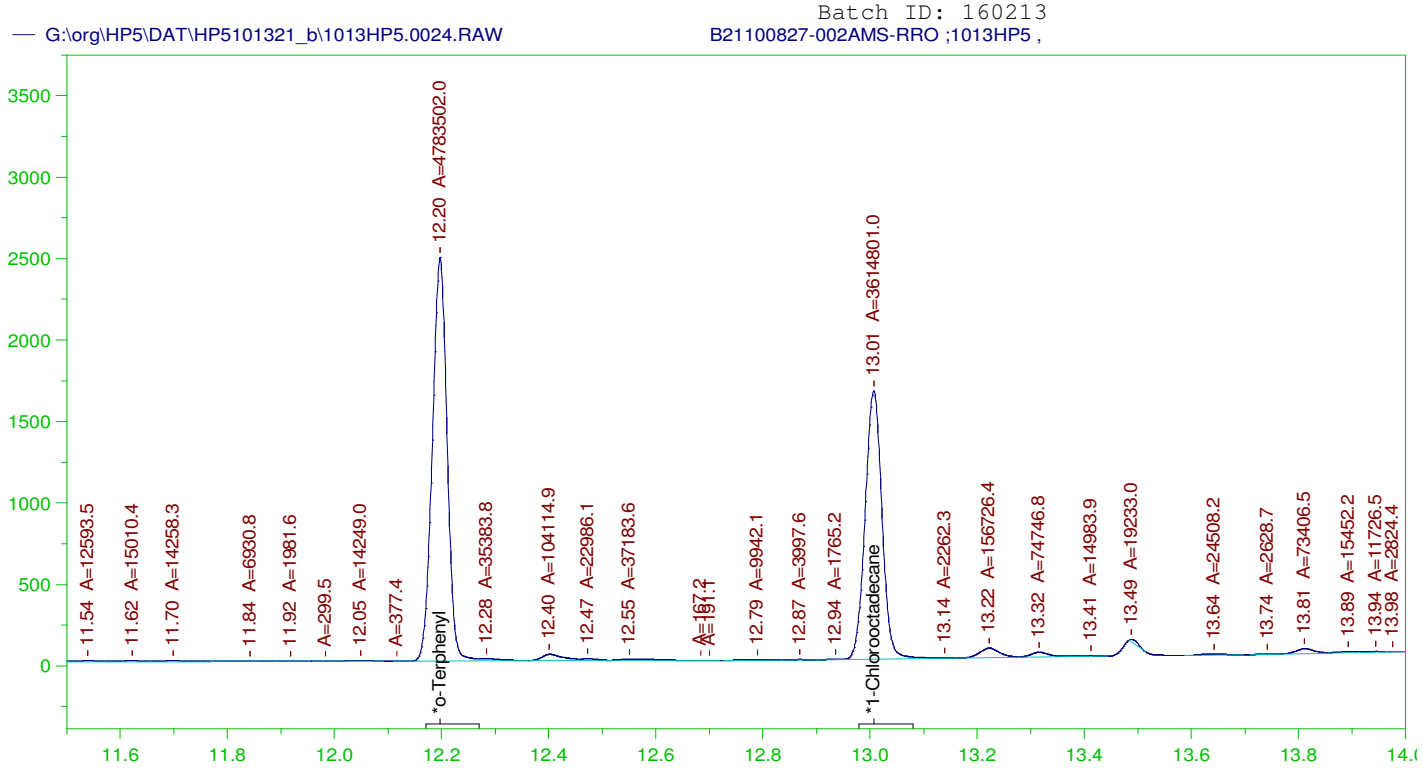
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0024.RAW
Date & Time Acquired: 10/14/2021 6:18:21 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.197 | .388 | .265 | 68.2 | - |
| *1-Chlorooctadecane | 13.007 | .388 | .2 | 51.54 | - |

DRO Area:2585120 DRO Amount: 0.1758664
TEH Area:4872221 TEH Amount: 0.3314584

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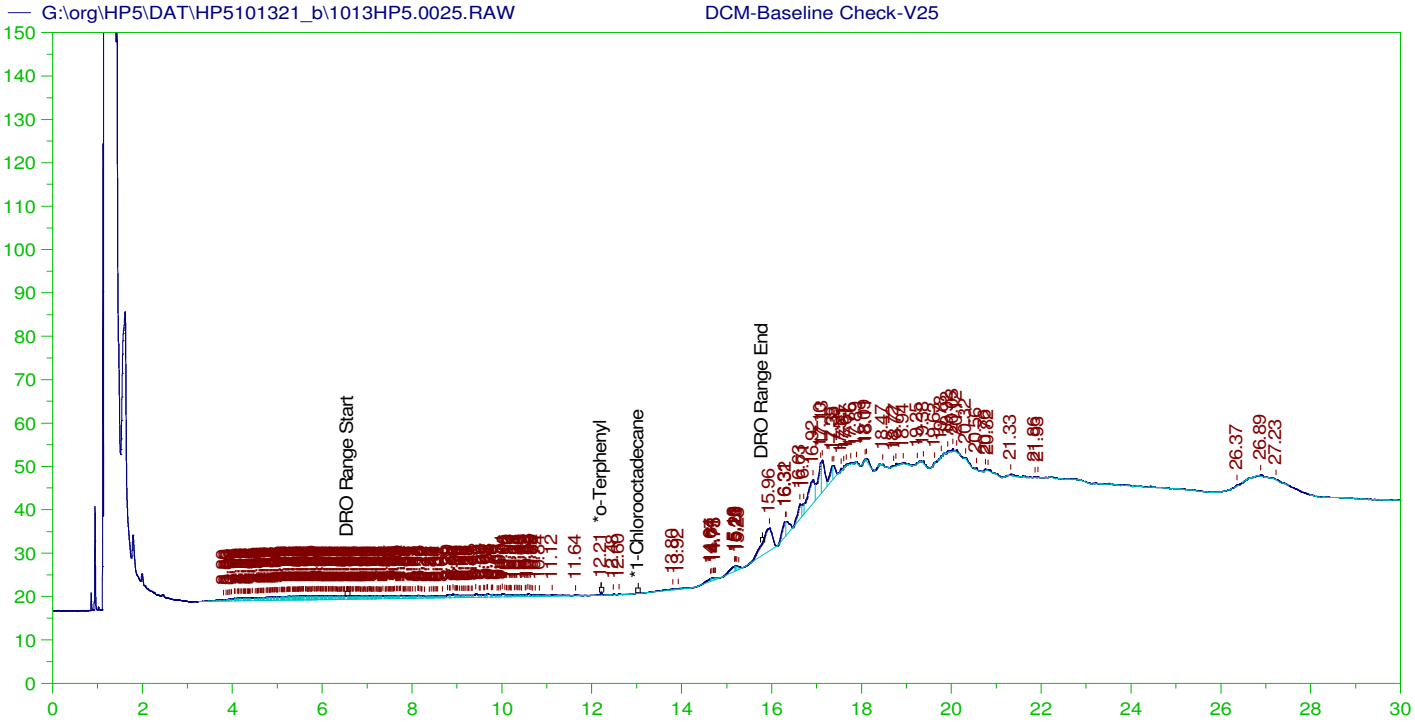


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V25
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0025.RAW
Date & Time Acquired: 10/14/2021 7:01:03 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.205 | 200. | .064 | .03 | - |
| *1-Chlorooctadecane | 29.99 | 200. | . | . | - |

DRO Area:193436 DRO Amount: 6.566651
TEH Area:697789.3 TEH Amount: 23.68814

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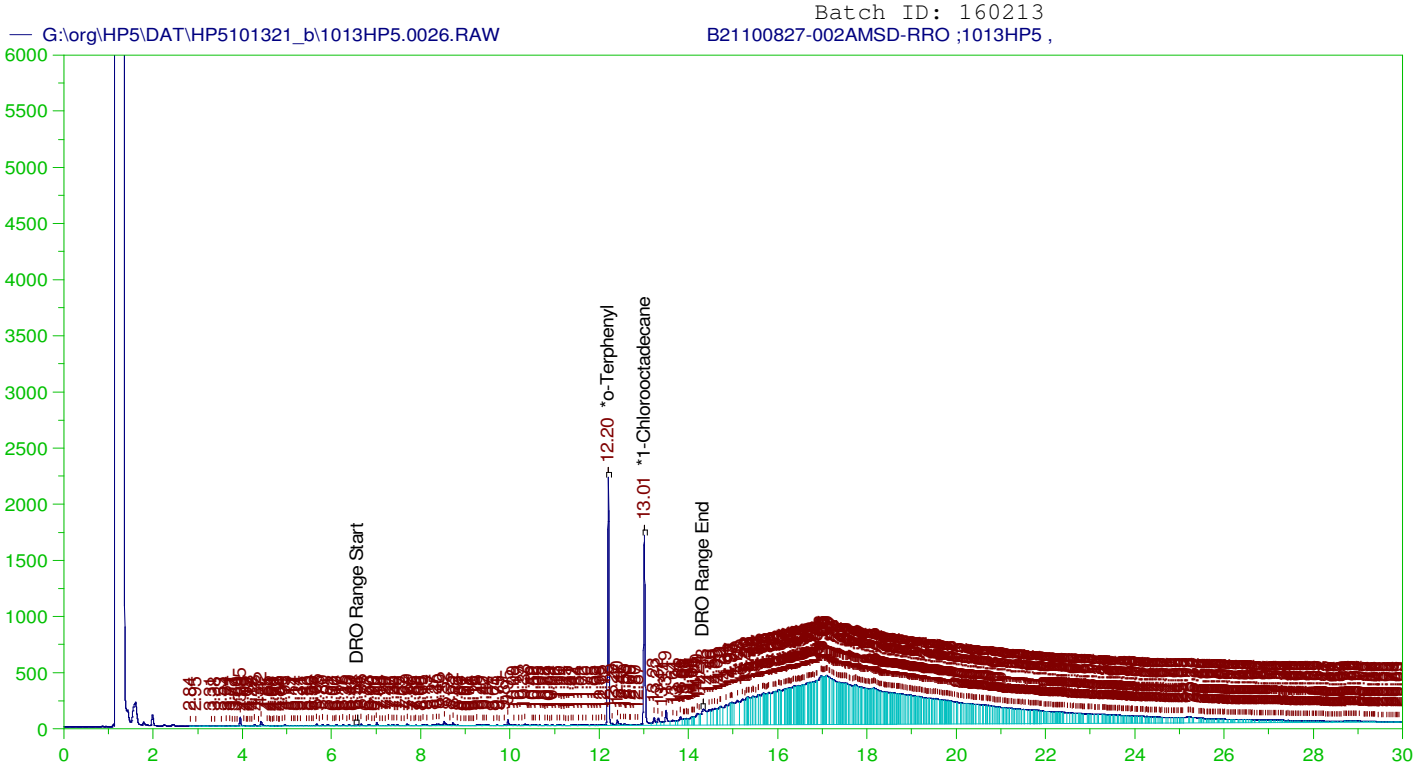
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMSD-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0026.RAW
Date & Time Acquired: 10/14/2021 7:43:34 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.199 | .388 | .239 | 61.52 | - |
| *1-Chlorooctadecane | 13.01 | .388 | .214 | 55.18 | - |

DRO Area:6592964 DRO Amount: 0.448521
TEH (Oil Range) Area:1.387715E+08 TEH (Oil Range) Amount: 9.44066

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G:\org\HP5\dat\HP5101321_b\Review\026_B21100827-002AMSD-RRO_D3_OIL-AJ-L%.xls

Batch ID: 160213

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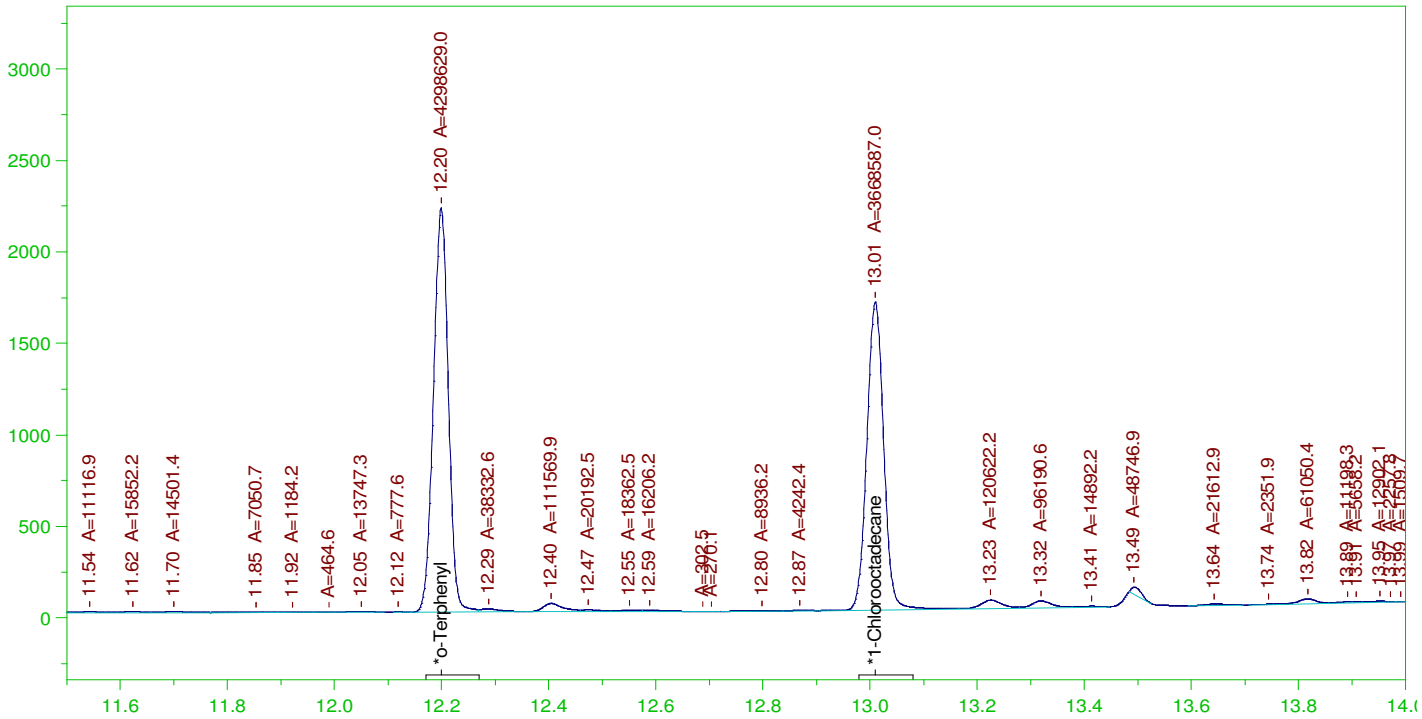



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

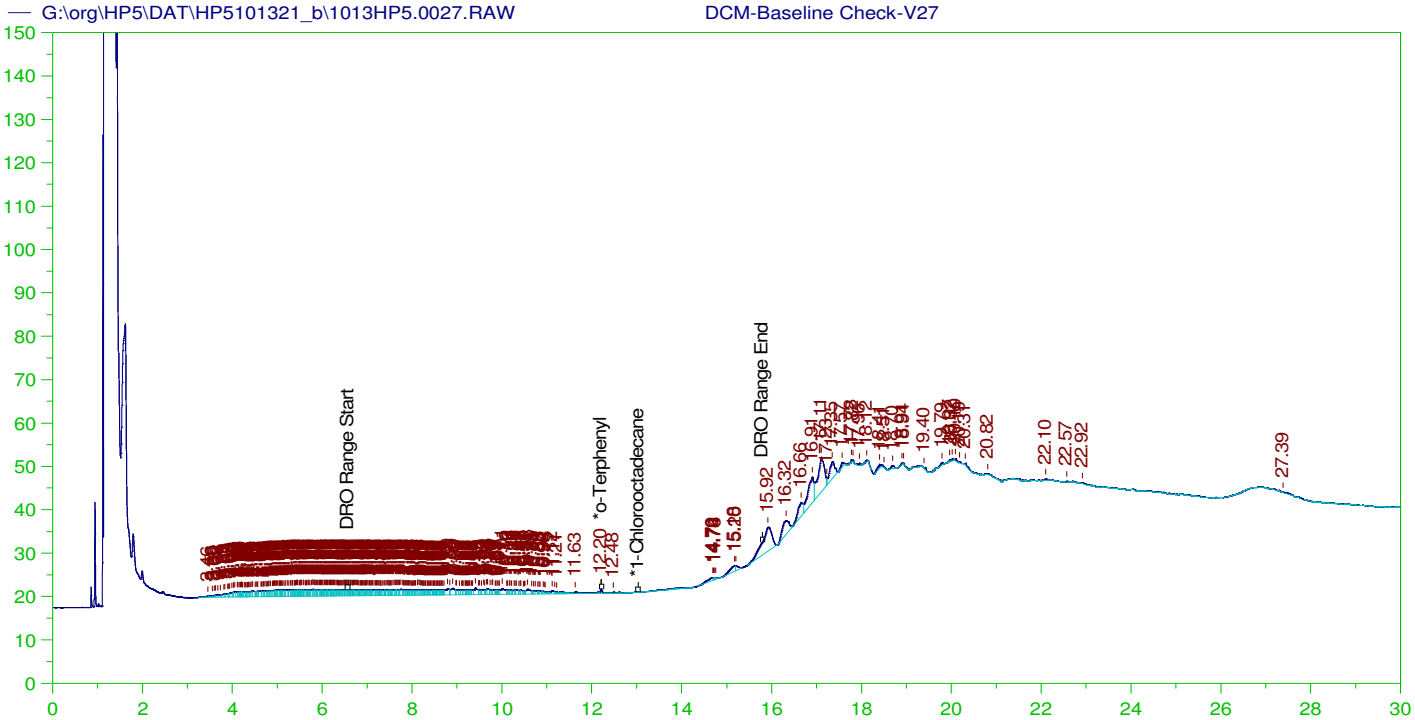
Sample Name: B21100827-002AMSD-RRO ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0026.RAW
Date & Time Acquired: 10/14/2021 7:43:34 AM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.199 | .388 | .238 | 61.28 | - |
| *1-Chlorooctadecane | 13.01 | .388 | .203 | 52.3 | - |

DRO Area:2503108 DRO Amount: 0.1702871
TEH Area:4696316 TEH Amount: 0.3194916

G:\org\HP5\dat\HP5101321_b\Review\026_B21100827-002AMSD-RRO_DS_OIL-area-AJ-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V27
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0027.RAW
Date & Time Acquired: 10/14/2021 8:26:12 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

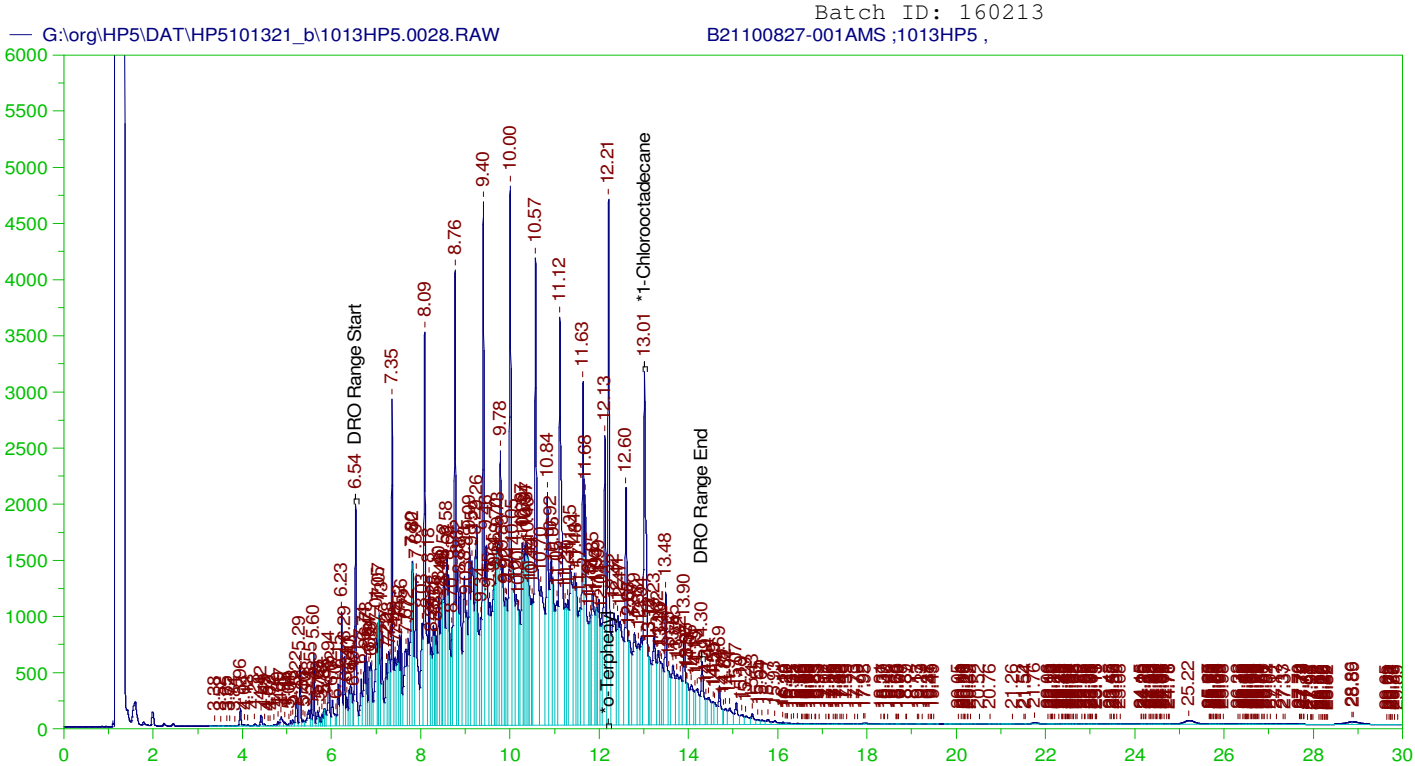
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | 200. | .082 | .04 | - |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | - |

DRO Area:350012.5 DRO Amount: 11.88202
TEH Area:964298.4 TEH Amount: 32.73543

G:\org\HP5\dat\HP5101321_b\Review\027_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMS ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0028.RAW
Date & Time Acquired: 10/14/2021 9:08:55 AM
Method File: G:\Org\HP5\Methods\D3_8015-101328-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .4 | .725 | 181.14 | - |
| *1-Chlorooctadecane | 13.014 | .4 | .712 | 178.02 | - |

DRO Area:4.560209E+08 DRO Amount: 30.96145
TEH Area:4.86465E+08 TEH Amount: 33.02845

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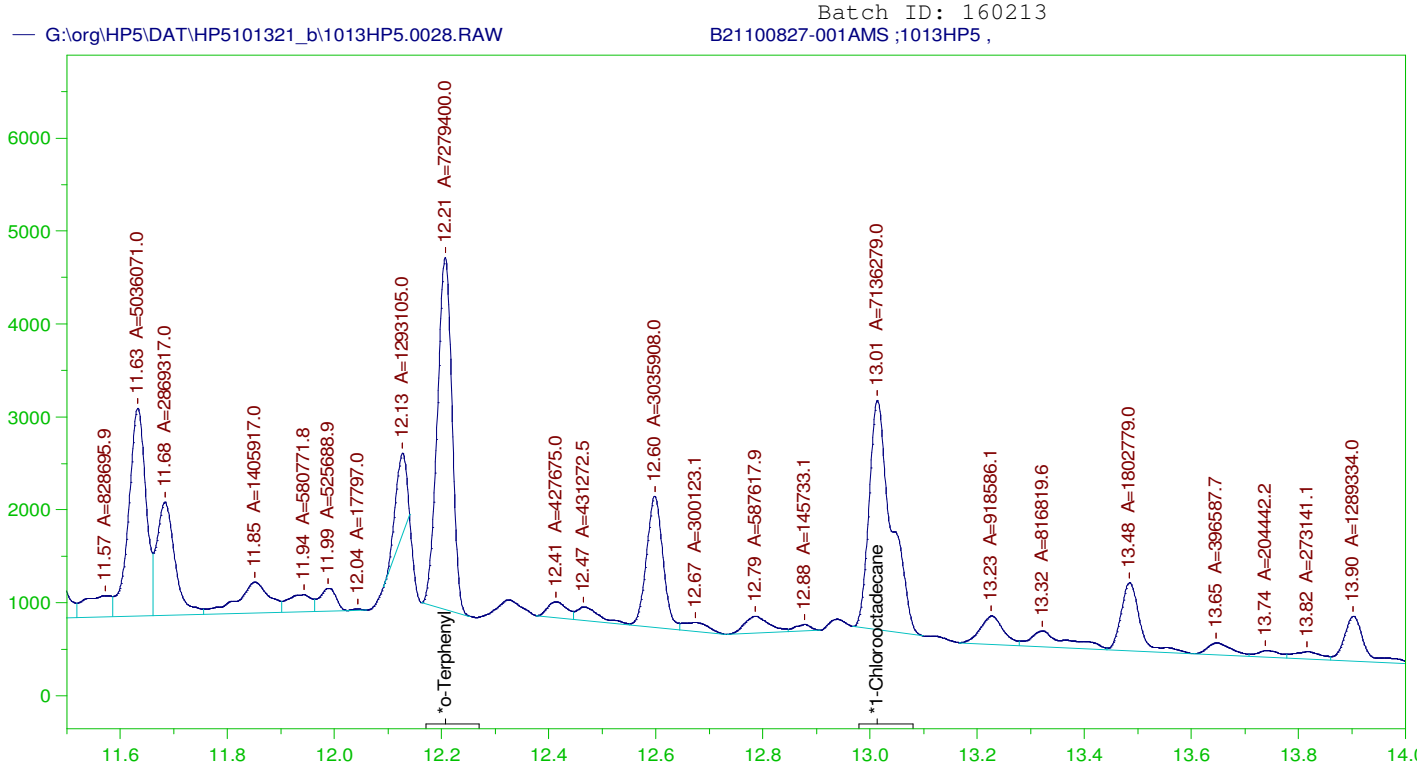



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

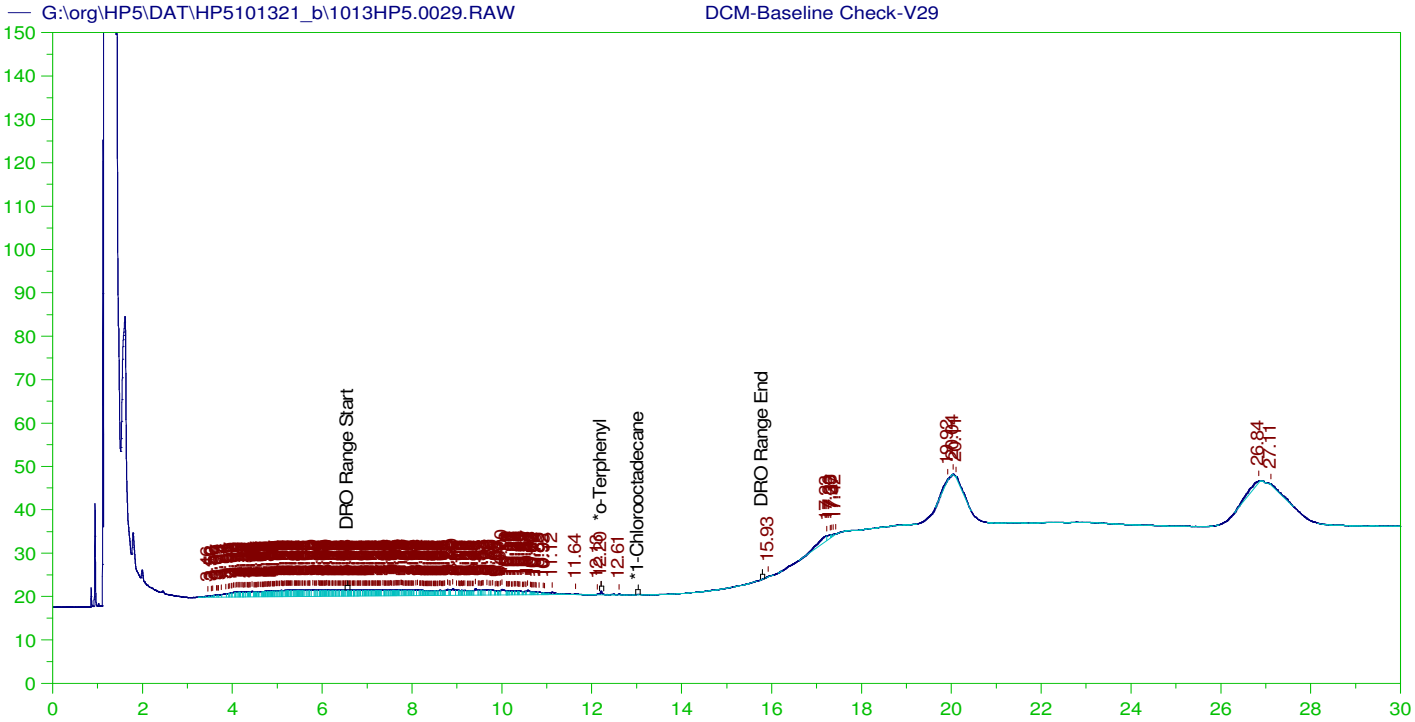
Sample Name: B21100827-001AMS ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0028.RAW
Date & Time Acquired: 10/14/2021 9:08:55 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | .4 | .415 | 103.78 | - |
| *1-Chlorooctadecane | 13.014 | .4 | .407 | 101.74 | - |

DRO Area:2.293543E+08 DRO Amount: 15.57197
TEH Area:2.432916E+08 TEH Amount: 16.51824

G:\org\HP5\dat\HP5101321_b\Review\028_B21100827-001AMS_DS_8015-area-HS-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V29
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0029.RAW
Date & Time Acquired: 10/14/2021 9:51:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

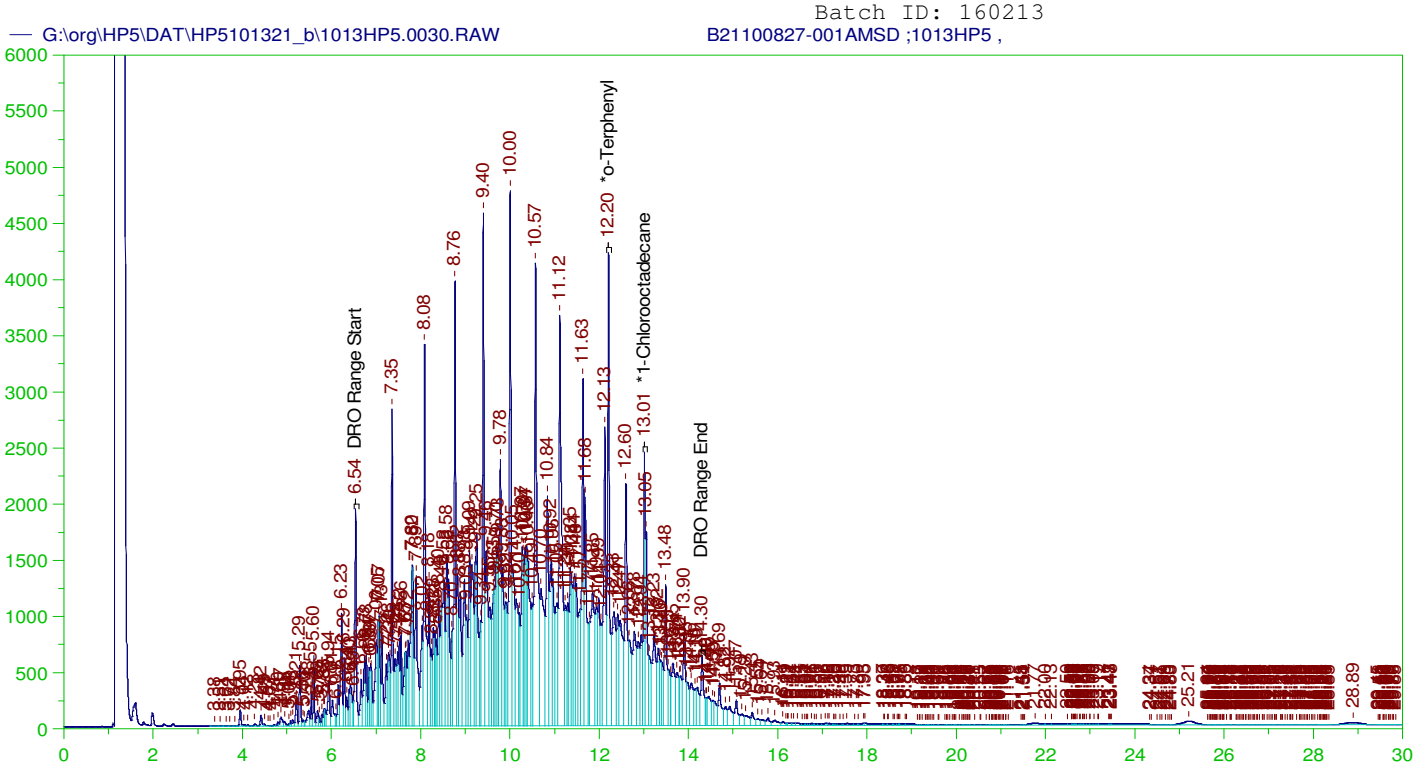
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.205 | 200. | .074 | .04 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:308739.3 DRO Amount: 10.4809
TEH Area:603657.7 TEH Amount: 20.49261

G:\org\HP5\dat\HP5101321_b\Review\029_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

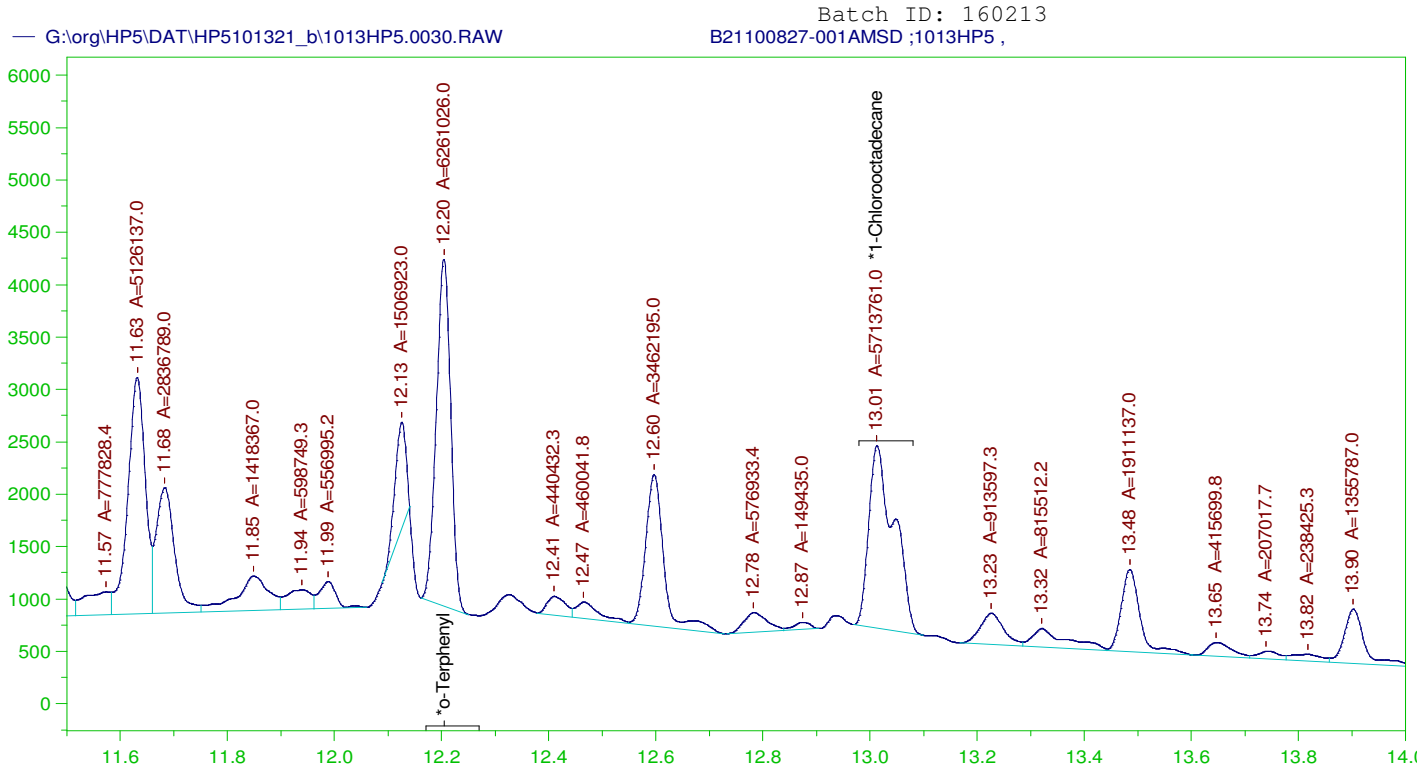
Sample Name: B21100827-001AMSD ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0030.RAW
Date & Time Acquired: 10/14/2021 10:34:35 AM
Method File: G:\Org\HP5\Methods\D3_8015-101330-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs-C24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .4 | .684 | 171. | - |
| *1-Chlorooctadecane | 13.013 | .4 | .38 | 94.96 | - |

DRO Area:4.580036E+08 DRO Amount: 31.09606
TEH Area:4.96338E+08 TEH Amount: 33.69878

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMSD ;1013HP5 ,
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0030.RAW
Date & Time Acquired: 10/14/2021 10:34:35 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.204 | .4 | .357 | 89.26 | - |
| *1-Chlorooctadecane | 13.013 | .4 | .326 | 81.46 | - |

DRO Area:2.231896E+08 DRO Amount: 15.15341
TEH Area:2.37219E+08 TEH Amount: 16.10594

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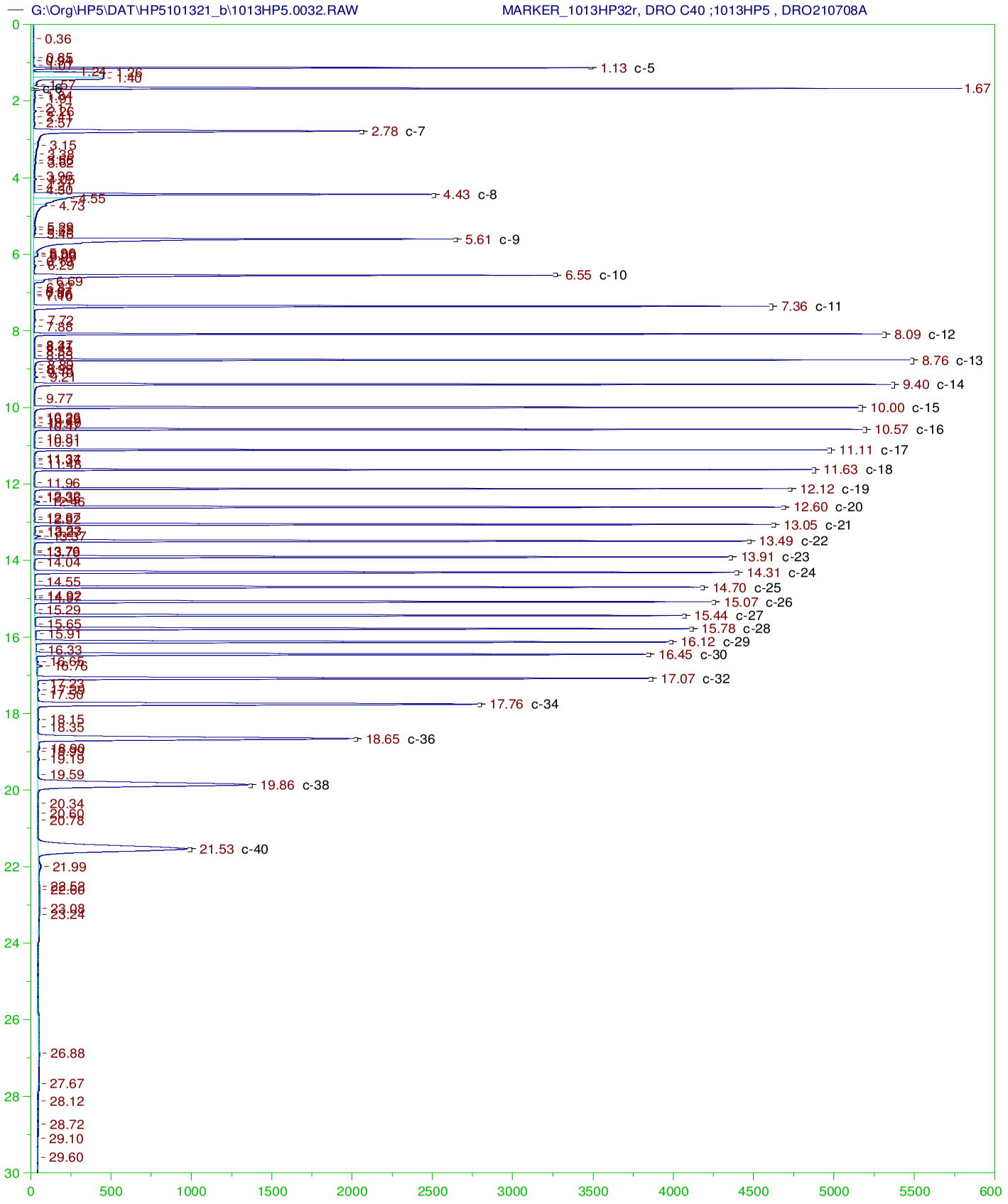
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MARKER_1013HP32r, DRO C40 ;1013HP5 , DRO210708A
1.13 c-5
1.67
2.78 c-7
4.43 c-8
5.61 c-9
6.55 c-10
7.36 c-11
8.09 c-12
8.76 c-13
9.40 c-14
10.00 c-15
10.57 c-16
11.11 c-17
11.63 c-18
12.12 c-19
12.60 c-20
13.05 c-21
13.49 c-22
13.91 c-23
14.31 c-24
14.70 c-25
15.07 c-26
15.44 c-27
15.78 c-28
16.12 c-29
16.45 c-30
17.07 c-32
17.76 c-34
18.65 c-36
19.86 c-38
21.53 c-40
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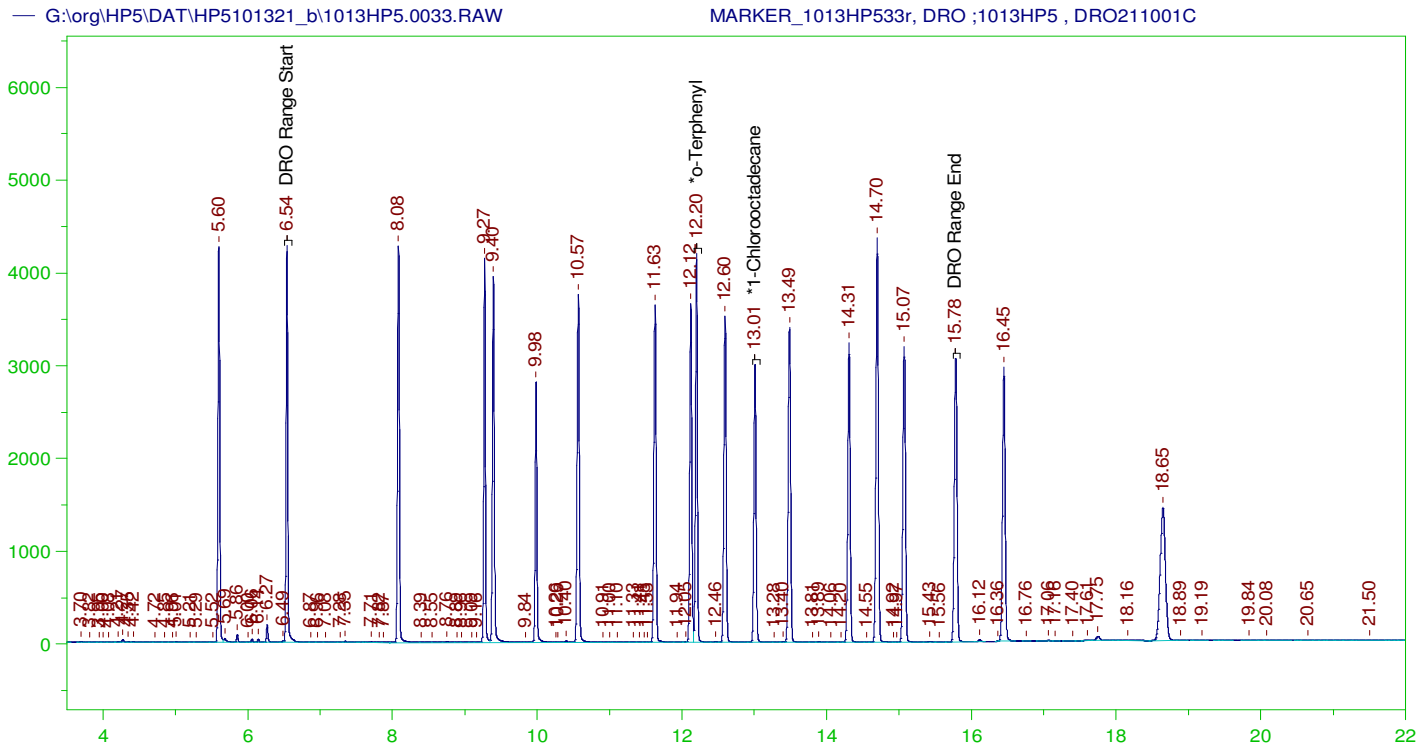



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

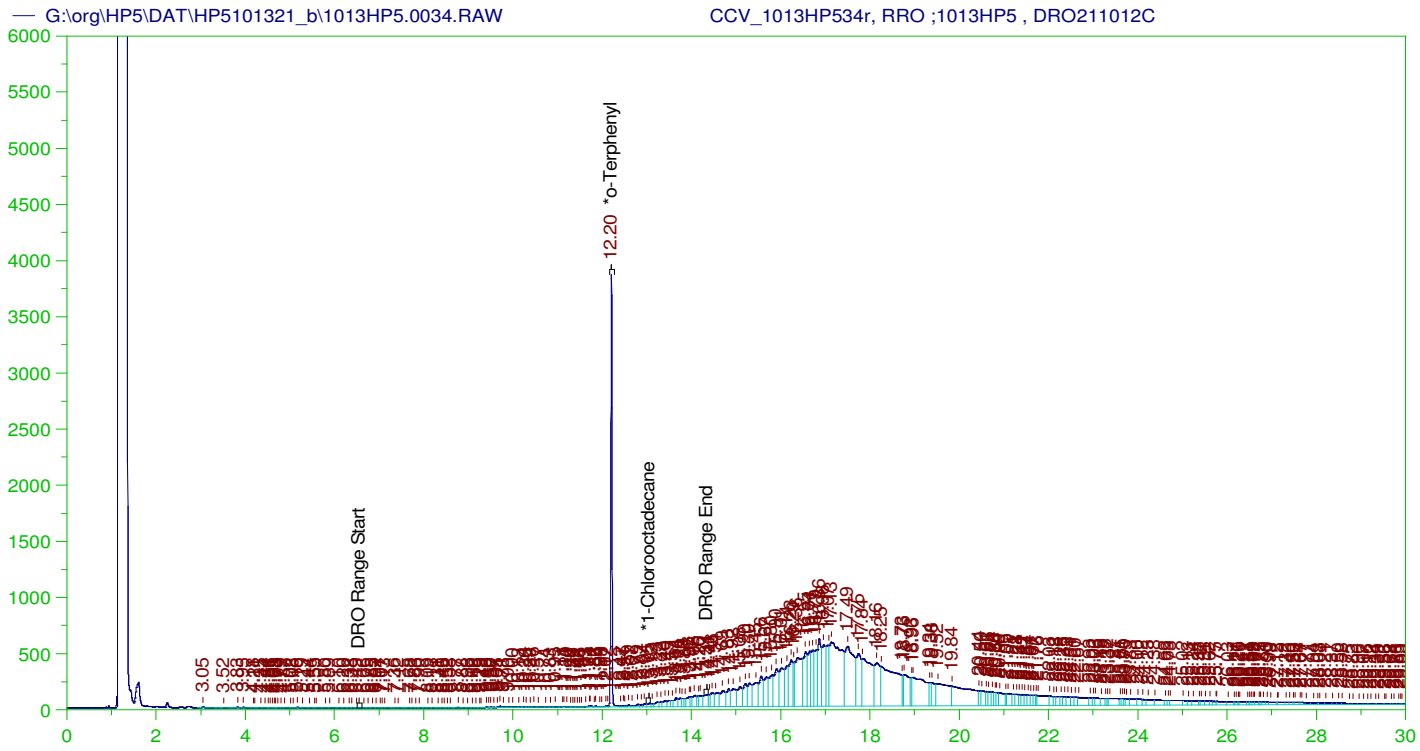
Sample Name: MARKER_1013HP533r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0033.RAW
Date & Time Acquired: 10/14/2021 12:41:54 PM
Method File: G:\Org\HP5\Methods\DC_8015-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.201 | .2 | .228 | 114.24 | - |
| *1-Chlorooctadecane | 13.009 | .2 | .185 | 92.48 | - |

DRO Area:1.04407E+08 DRO Amount: 3.544346
TEH Area:1.27631E+08 TEH Amount: 4.332742

G:\org\HP5\dat\HP5101321_b\Review\033_MARKER_1013HP533r_DC_8015-HS-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP534r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW
Date & Time Acquired: 10/14/2021 1:24:13 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJ-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJ.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 214.364 | 107.18 | - |
| *1-Chlorooctadecane | 13.049 | 200. | 4.373 | 2.19 | - |

DRO Area:6563576 DRO Amount: 229.9587
TEH (Oil Range) Area:1.403174E+08 TEH (Oil Range) Amount: 4916.102

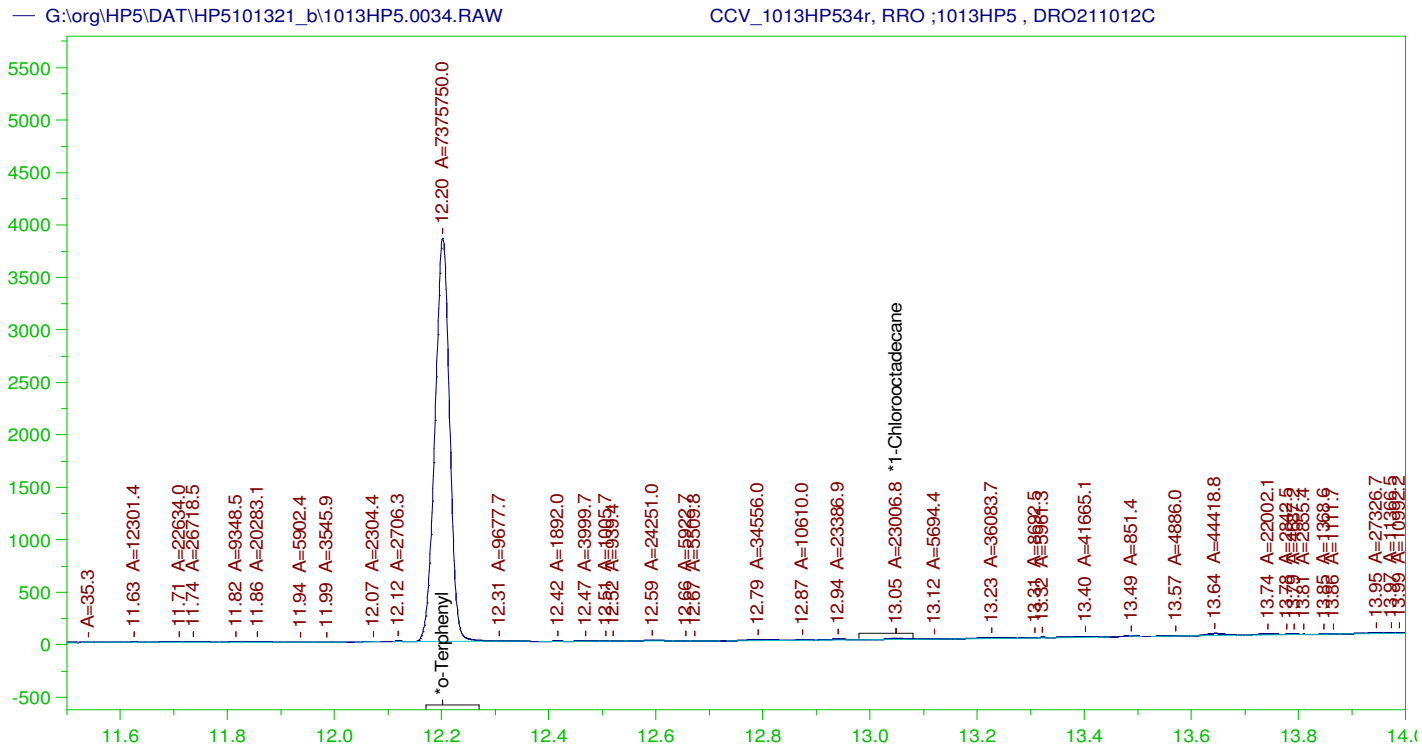
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4916.1 | 98.32 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 214.364 | 107.18 | 85-115 |
| *1-Chlorooctadecane | 13.049 | 200. | 4.373 | 2.19 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\034_CCV_1013HP534r_DC_OIL-AJ-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP534r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW
Date & Time Acquired: 10/14/2021 1:24:13 PM
Method File: G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218Aj.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 210.308 | 105.15 | - |
| *1-Chlorooctadecane | 13.049 | 200. | .656 | .33 | - |

DRO Area:825565.2 DRO Amount: 28.92416
TEH Area:2141455 TEH Amount: 75.02711

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0034.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 75.03 | 1.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.202 | 200. | 210.308 | 105.15 | 85-115 |
| *1-Chlorooctadecane | 13.049 | 200. | .656 | .33 | 85-115 |

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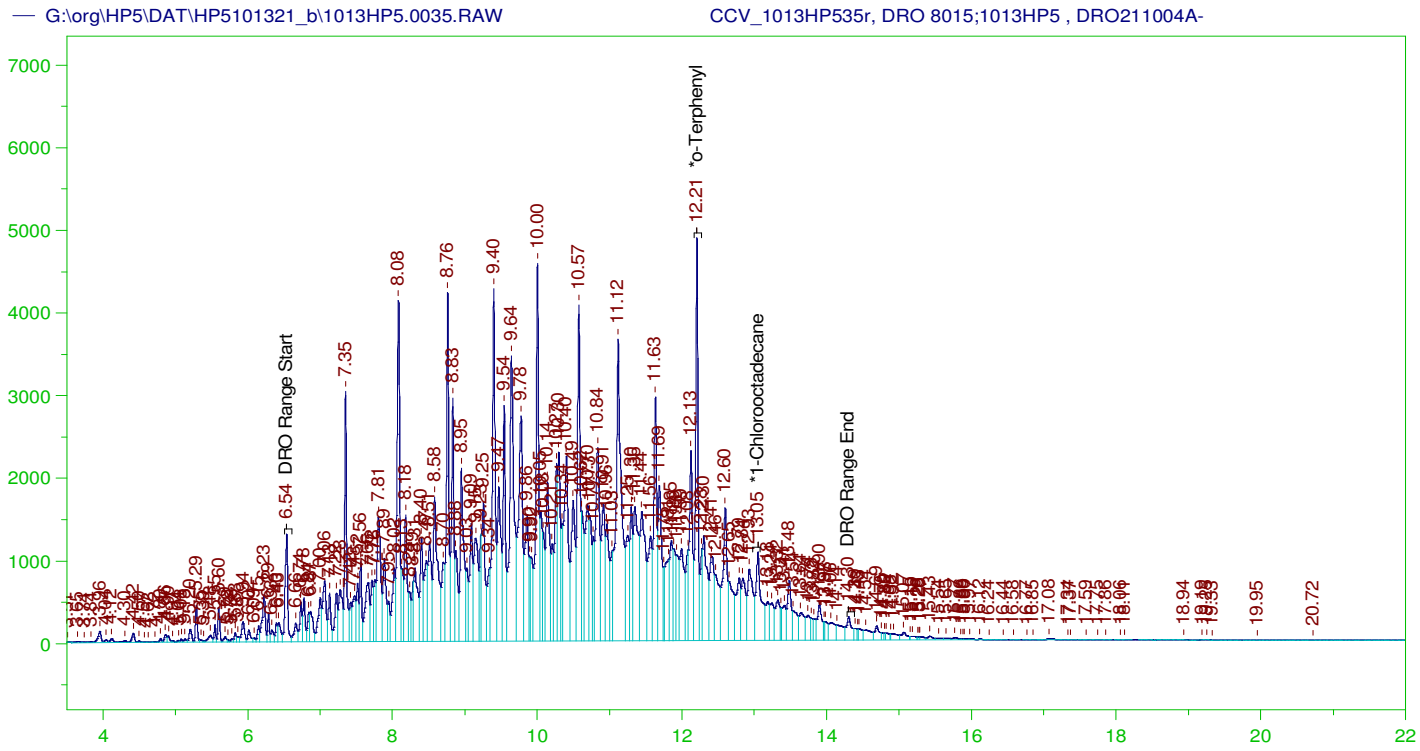


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW
Date & Time Acquired: 10/14/2021 2:06:51 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HS-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 342.987 | 171.49 | - |
| *1-Chlorooctadecane | 13.048 | 200. | 156.924 | 78.46 | - |

DRO Area:4.518377E+08 DRO Amount: 15338.72
TEH Area:4.681404E+08 TEH Amount: 15892.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15892.15 | 105.95 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 342.987 | 171.49 | 85-115 |
| *1-Chlorooctadecane | 13.048 | 200. | 156.924 | 78.46 | 85-115 |

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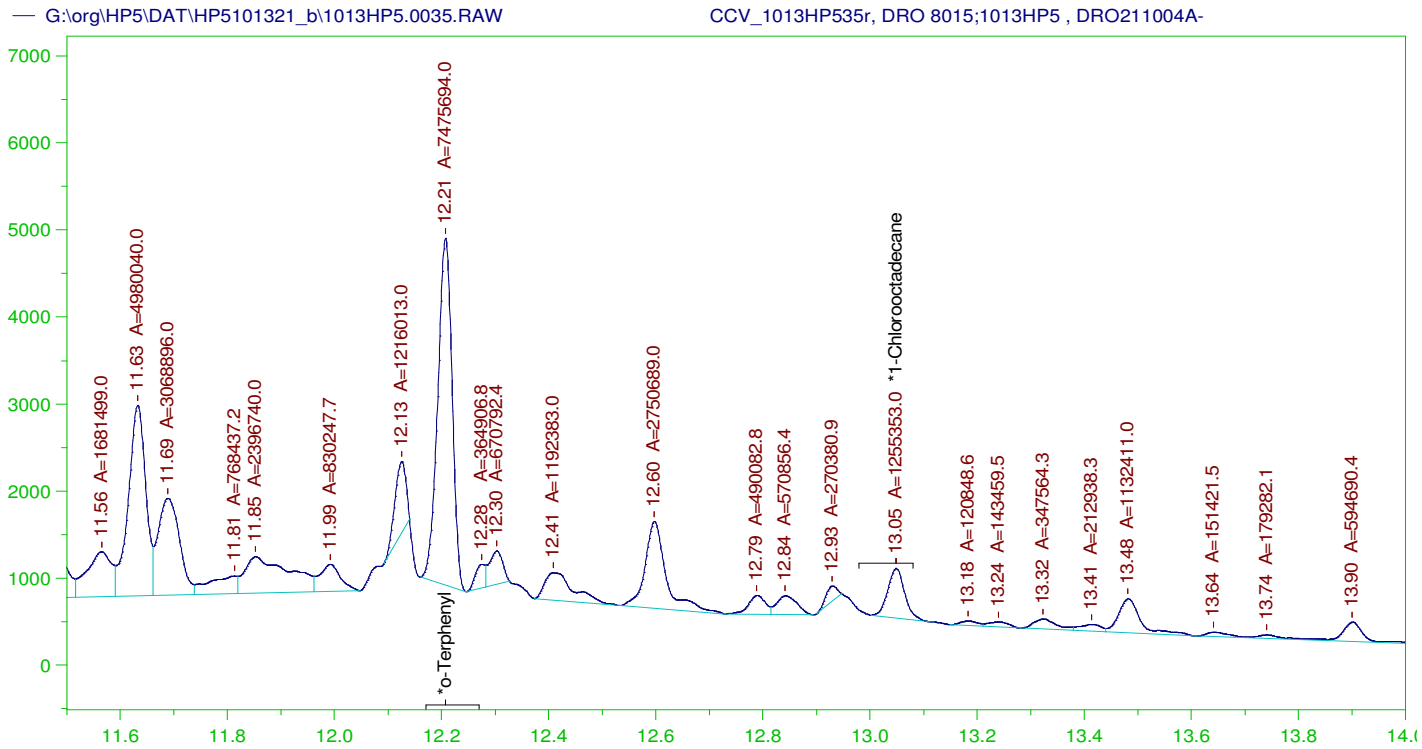


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW
Date & Time Acquired: 10/14/2021 2:06:51 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 213.157 | 106.58 | - |
| *1-Chlorooctadecane | 13.048 | 200. | 35.794 | 17.9 | - |

DRO Area:2.532008E+08 DRO Amount: 8595.512
TEH Area:2.628864E+08 TEH Amount: 8924.311

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0035.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8924.31 | 59.5 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.207 | 200. | 213.157 | 106.58 | 85-115 |
| *1-Chlorooctadecane | 13.048 | 200. | 35.794 | 17.9 | 85-115 |

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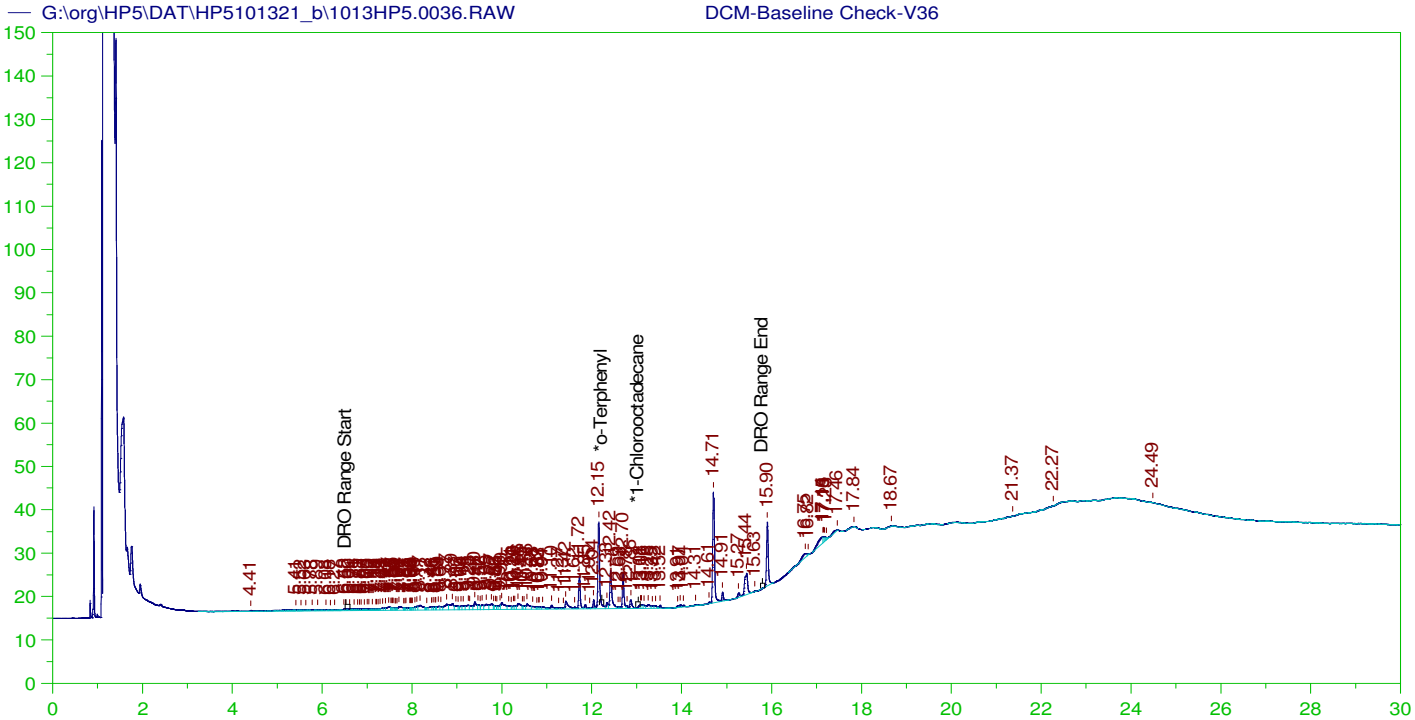


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V36
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0036.RAW
Date & Time Acquired: 10/14/2021 3:07:06 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.982 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:470719.3 DRO Amount: 15.9797
TEH Area:587746.1 TEH Amount: 19.95246

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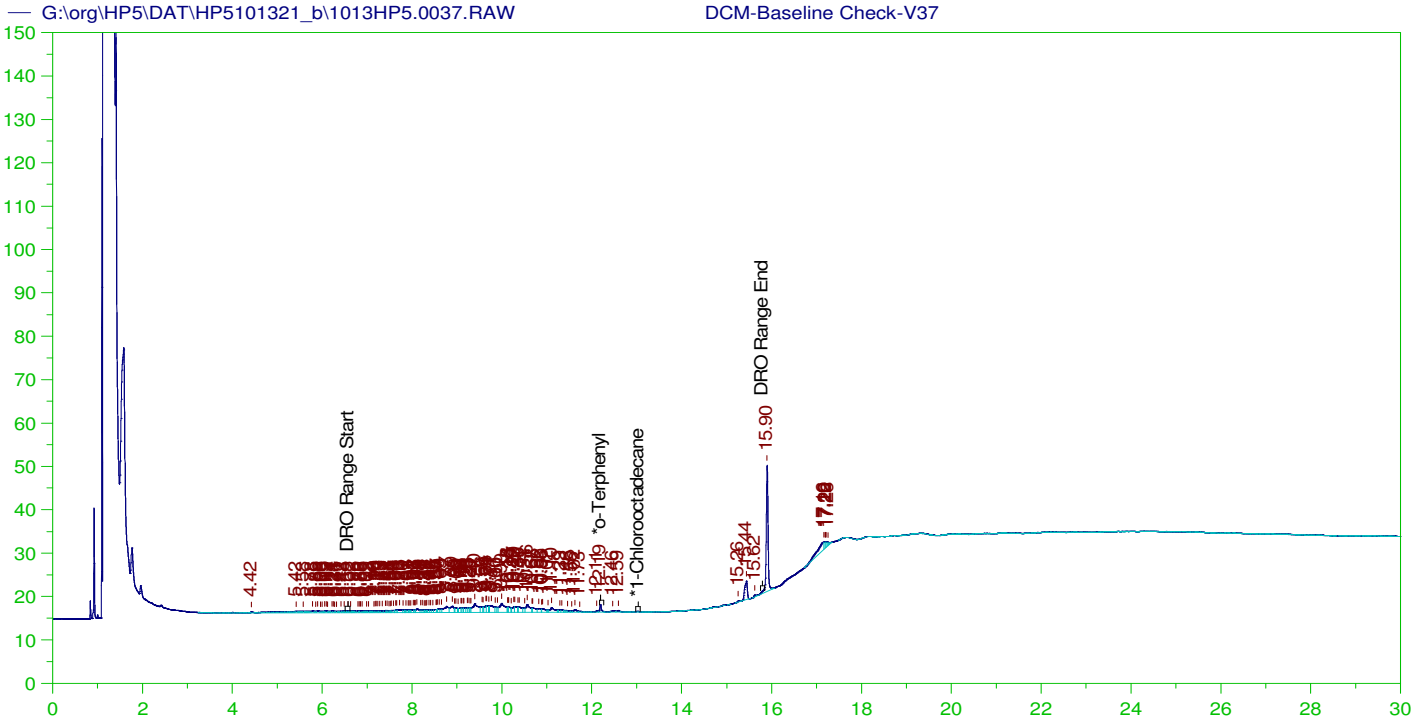


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V37
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0037.RAW
Date & Time Acquired: 10/14/2021 3:49:24 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.189 | 200. | .142 | .07 | - |
| *1-Chlorooctadecane | 29.986 | 200. | . | . | - |

DRO Area:275705.9 DRO Amount: 9.359501
TEH Area:430383.9 TEH Amount: 14.61042

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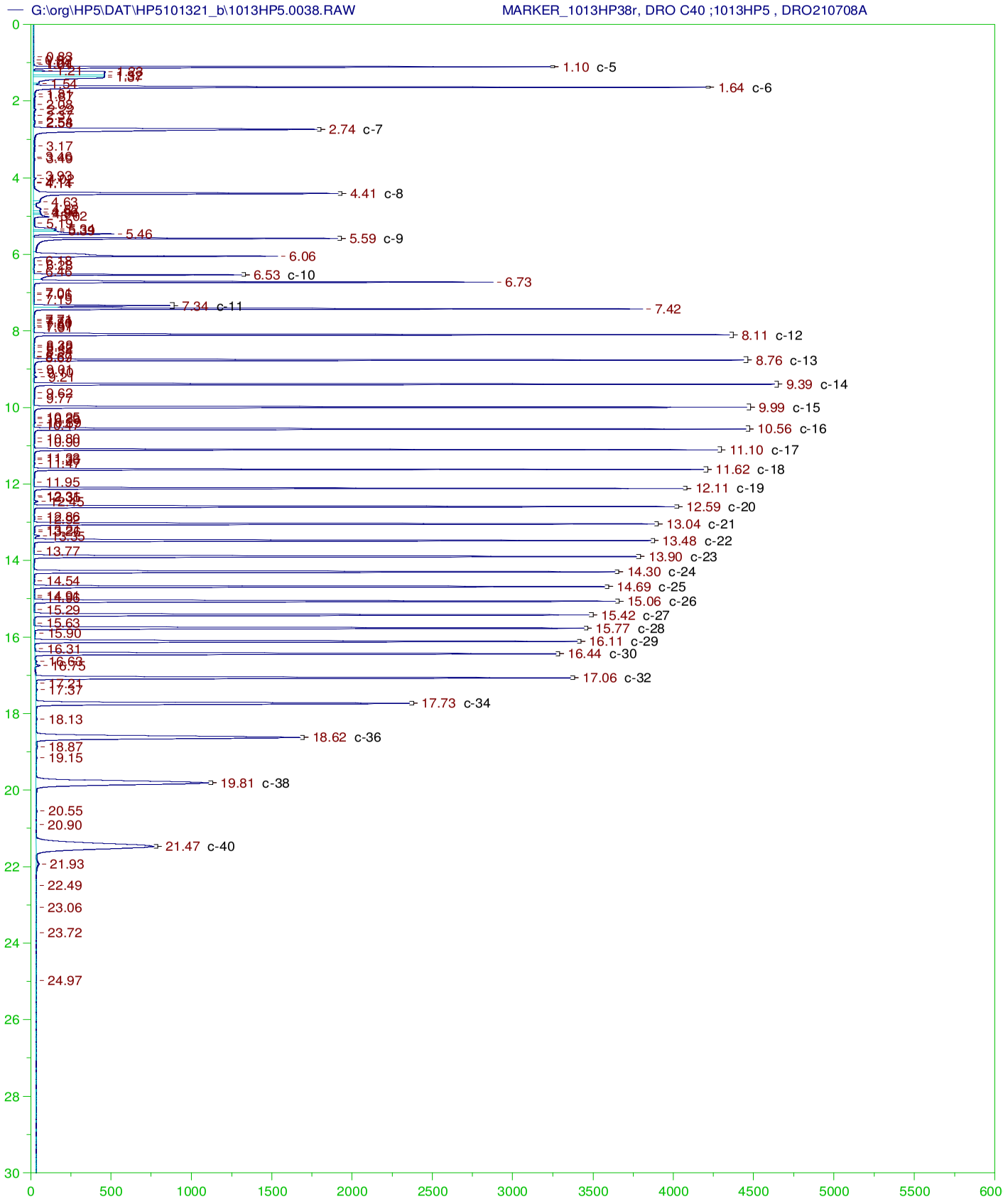




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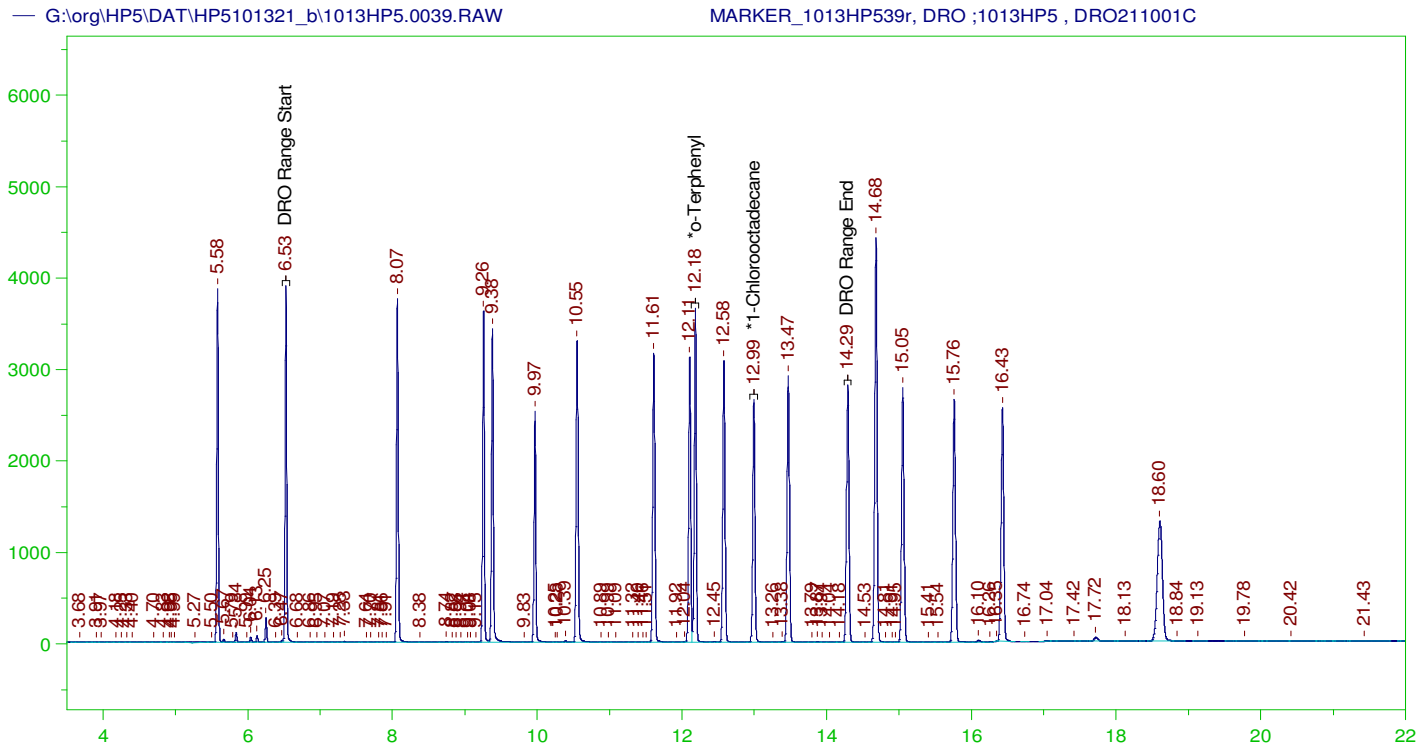



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

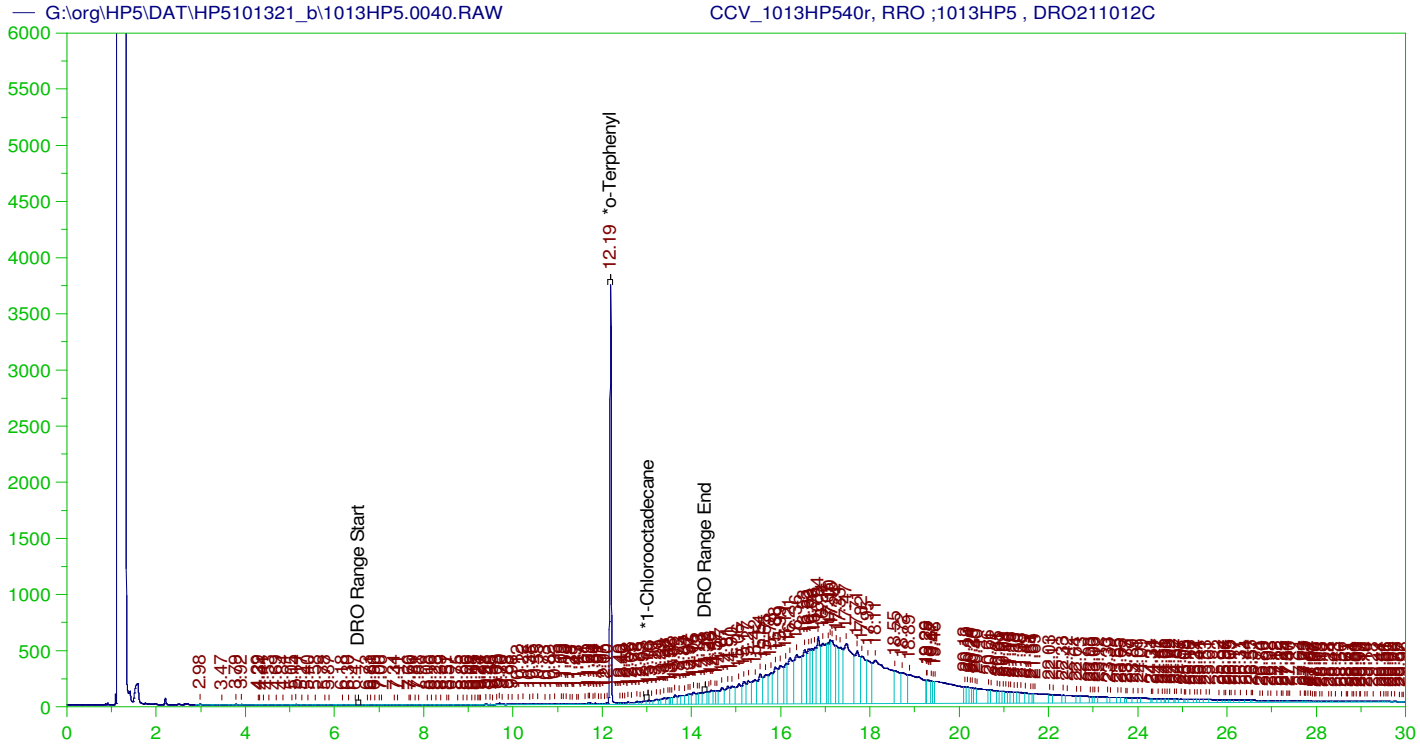
Sample Name: MARKER_1013HP539r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0039.RAW
Date & Time Acquired: 10/14/2021 5:14:51 PM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | .2 | .202 | 101.1 | - |
| *1-Chlorooctadecane | 12.993 | .2 | .164 | 81.84 | - |

DRO Area:6.892374E+07 DRO Amount: 2.339782
TEH Area:1.134687E+08 TEH Amount: 3.851967

G:\org\HP5\dat\HP5101321_b\Review\039_MARKER_1013HP539r_DC_8015-24-HSa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW
Date & Time Acquired: 10/14/2021 5:58:15 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AJA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 210.849 | 105.42 | - |
| *1-Chlorooctadecane | 13.03 | 200. | 4.309 | 2.15 | - |

DRO Area:6458886 DRO Amount: 226.2908
TEH (Oil Range) Area:1.345355E+08 TEH (Oil Range) Amount: 4713.531

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4713.53 | 94.27 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 210.849 | 105.42 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | 4.309 | 2.15 | 85-115 |

AMN 10/21/2021

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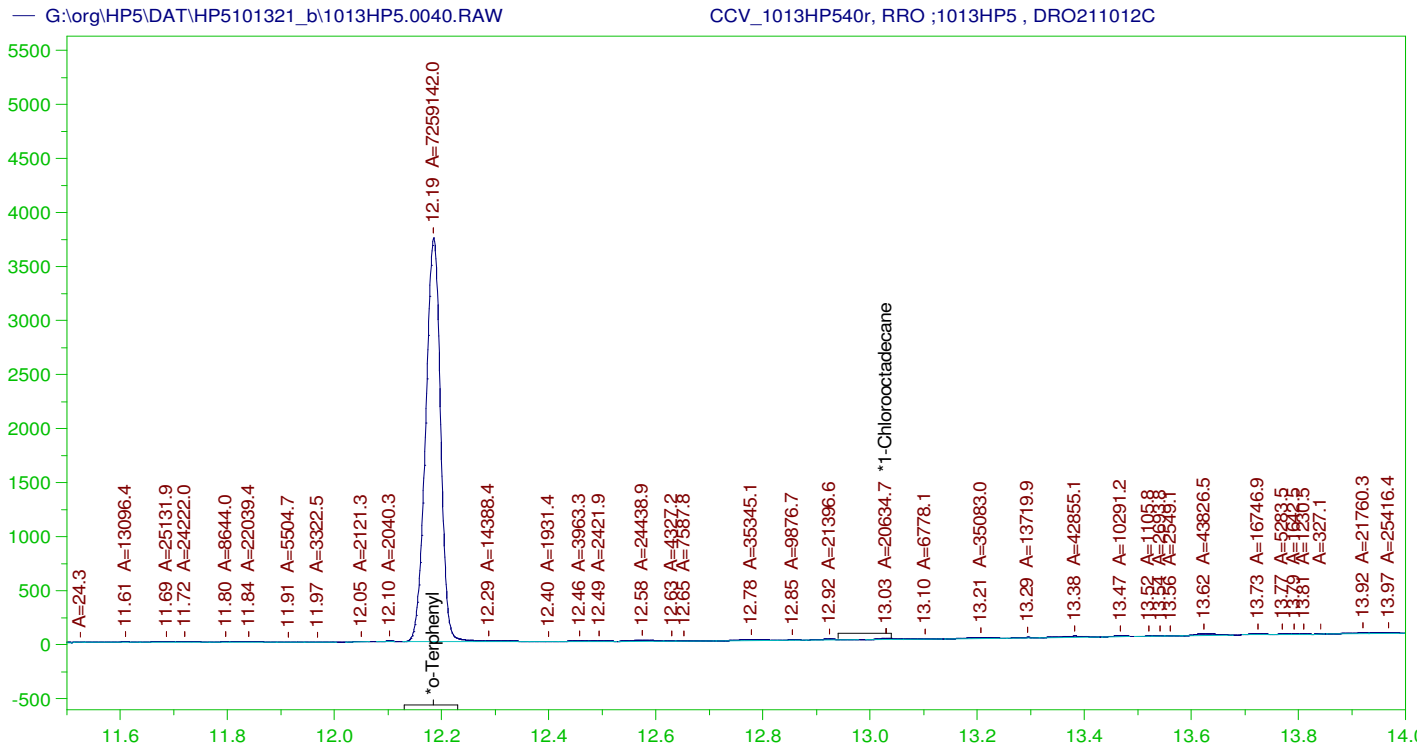



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP540r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW
Date & Time Acquired: 10/14/2021 5:58:15 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

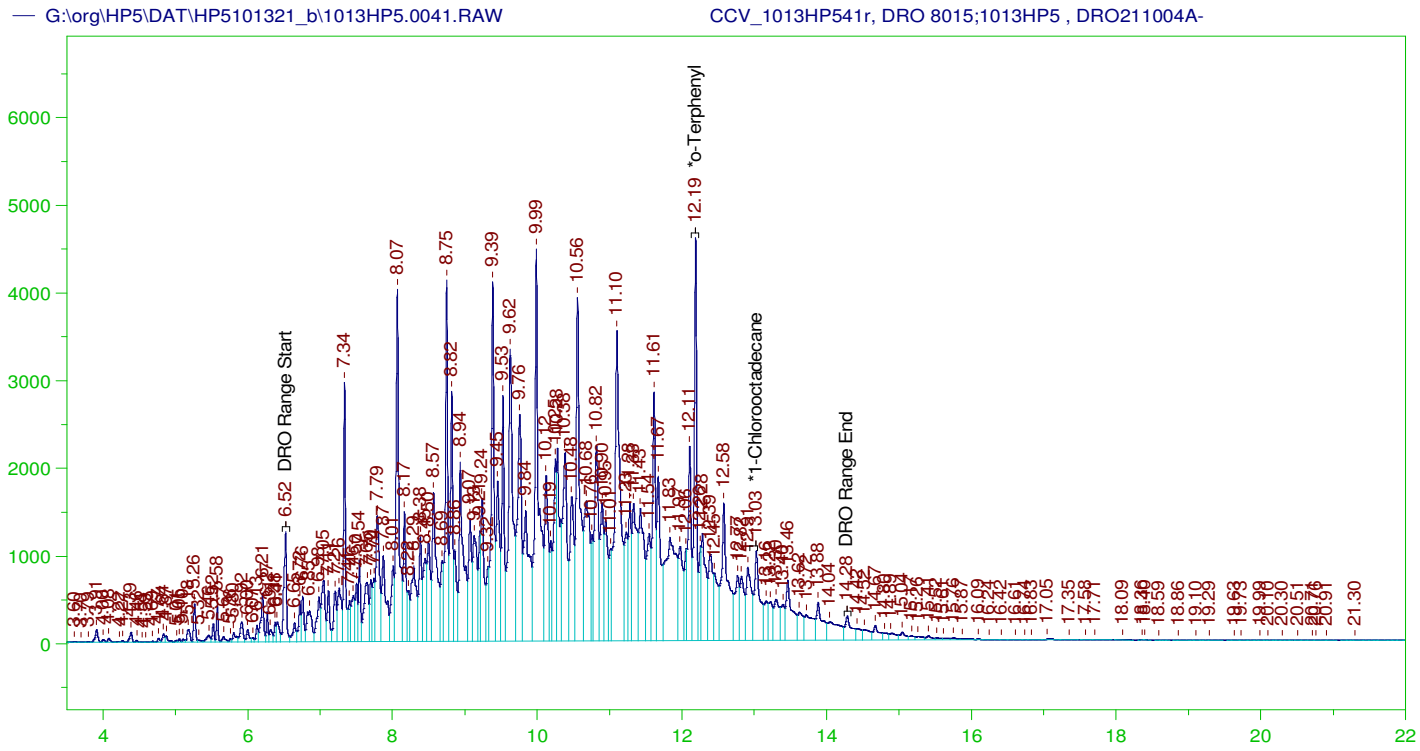
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 206.983 | 103.49 | - |
| *1-Chlorooctadecane | 13.03 | 200. | .588 | .29 | - |

DRO Area:848873.9 DRO Amount: 29.74079
TEH Area:2112552 TEH Amount: 74.01448

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0040.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 74.01 | 1.48 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 206.983 | 103.49 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | .588 | .29 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW
Date & Time Acquired: 10/14/2021 6:41:13 PM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 328.737 | 164.37 | - |
| *1-Chlorooctadecane | 13.029 | 200. | 150.84 | 75.42 | - |

DRO Area:4.350192E+08 DRO Amount: 14767.77
TEH Area:4.504288E+08 TEH Amount: 15290.89

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15290.89 | 101.94 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 328.737 | 164.37 | 85-115 |
| *1-Chlorooctadecane | 13.029 | 200. | 150.84 | 75.42 | 85-115 |

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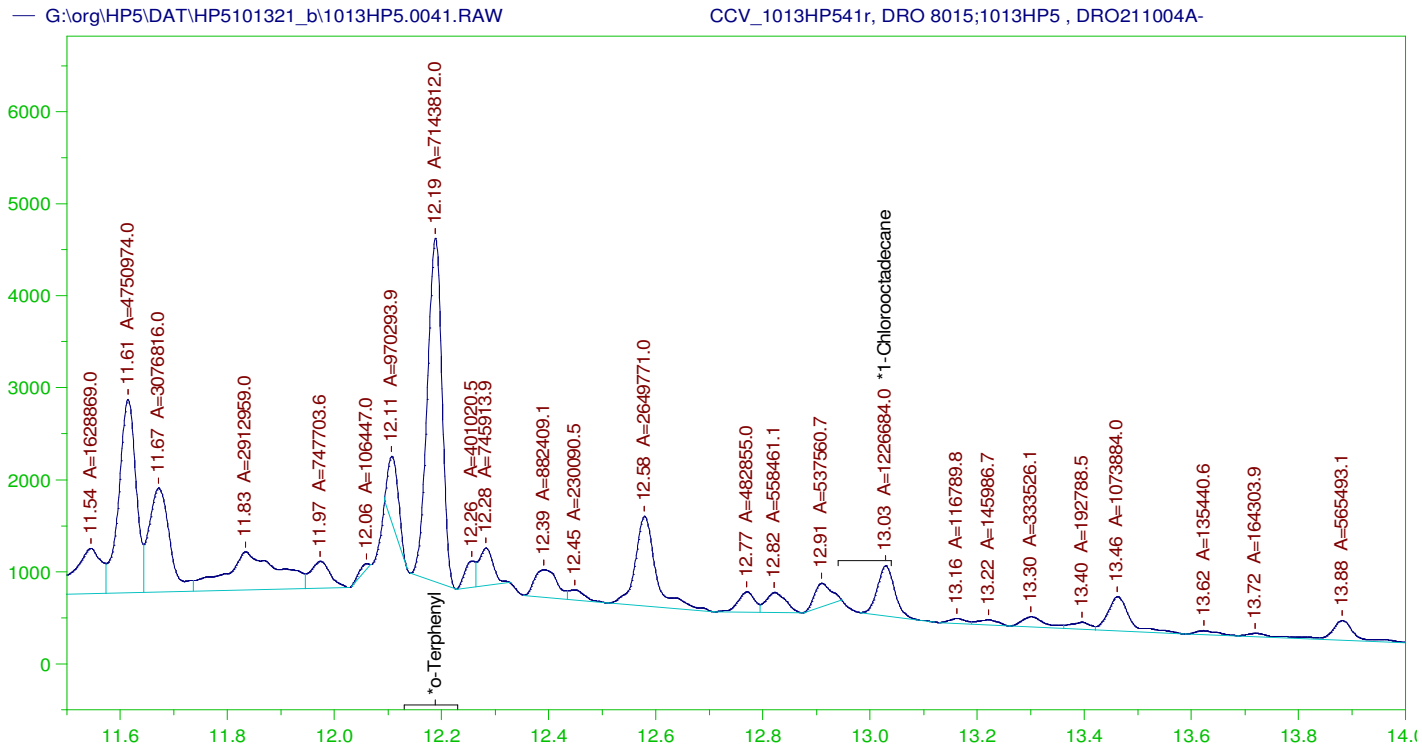


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW
Date & Time Acquired: 10/14/2021 6:41:13 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 203.694 | 101.85 | - |
| *1-Chlorooctadecane | 13.029 | 200. | 34.977 | 17.49 | - |

DRO Area:2.423629E+08 DRO Amount: 8227.593
TEH Area:2.523258E+08 TEH Amount: 8565.805

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0041.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8565.81 | 57.11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.188 | 200. | 203.694 | 101.85 | 85-115 |
| *1-Chlorooctadecane | 13.029 | 200. | 34.977 | 17.49 | 85-115 |

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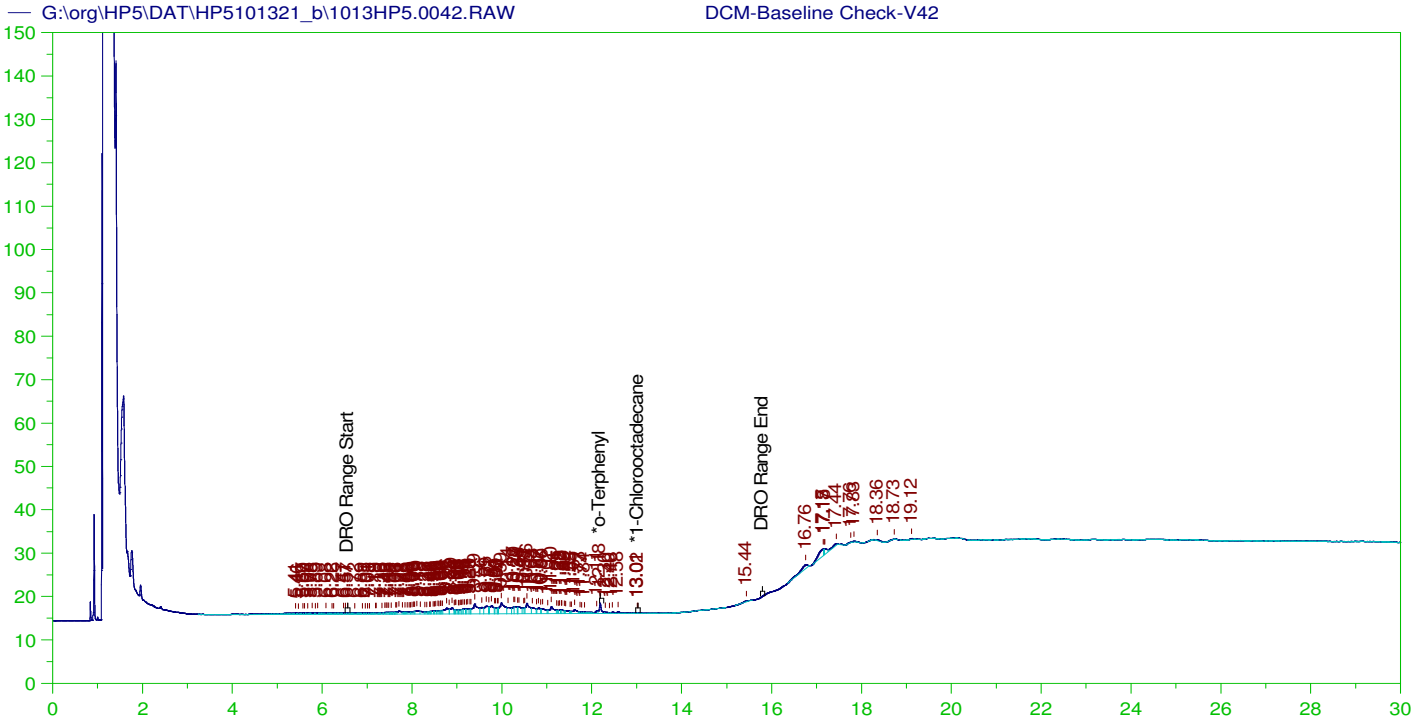



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V42
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0042.RAW
Date & Time Acquired: 10/14/2021 7:24:24 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

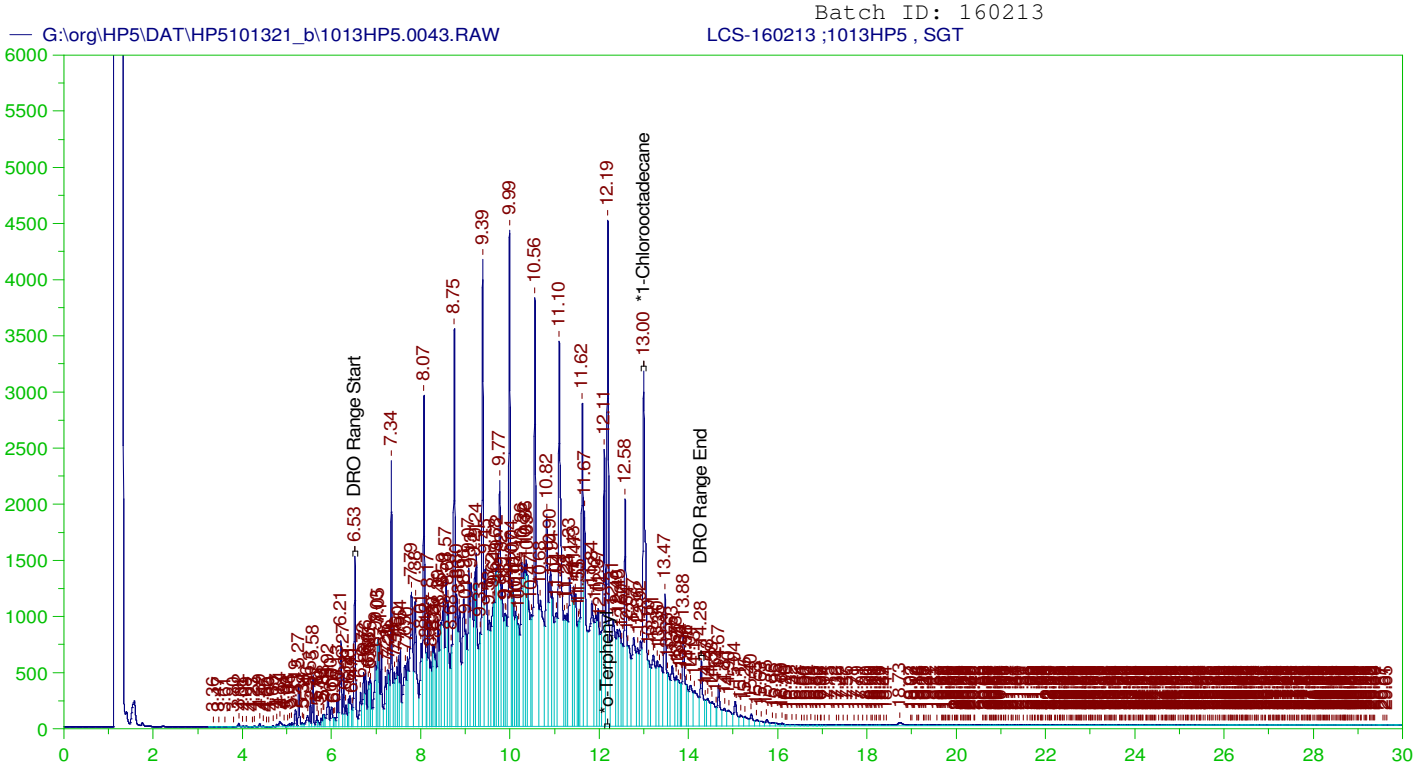
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.182 | 200. | .24 | .12 | - |
| *1-Chlorooctadecane | 13.024 | 200. | .016 | .01 | - |

DRO Area:298035.3 DRO Amount: 10.11753
TEH Area:377329.5 TEH Amount: 12.80936

G:\org\HP5\dat\HP5101321_b\Review\042_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0043.RAW
Date & Time Acquired: 10/14/2021 8:07:16 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.19 | .2 | .341 | 170.27 | - |
| *1-Chlorooctadecane | 12.997 | .2 | .354 | 177.16 | - |

DRO Area:4.05568E+08 DRO Amount: 13.76798
TEH Area:4.332774E+08 TEH Amount: 14.70864

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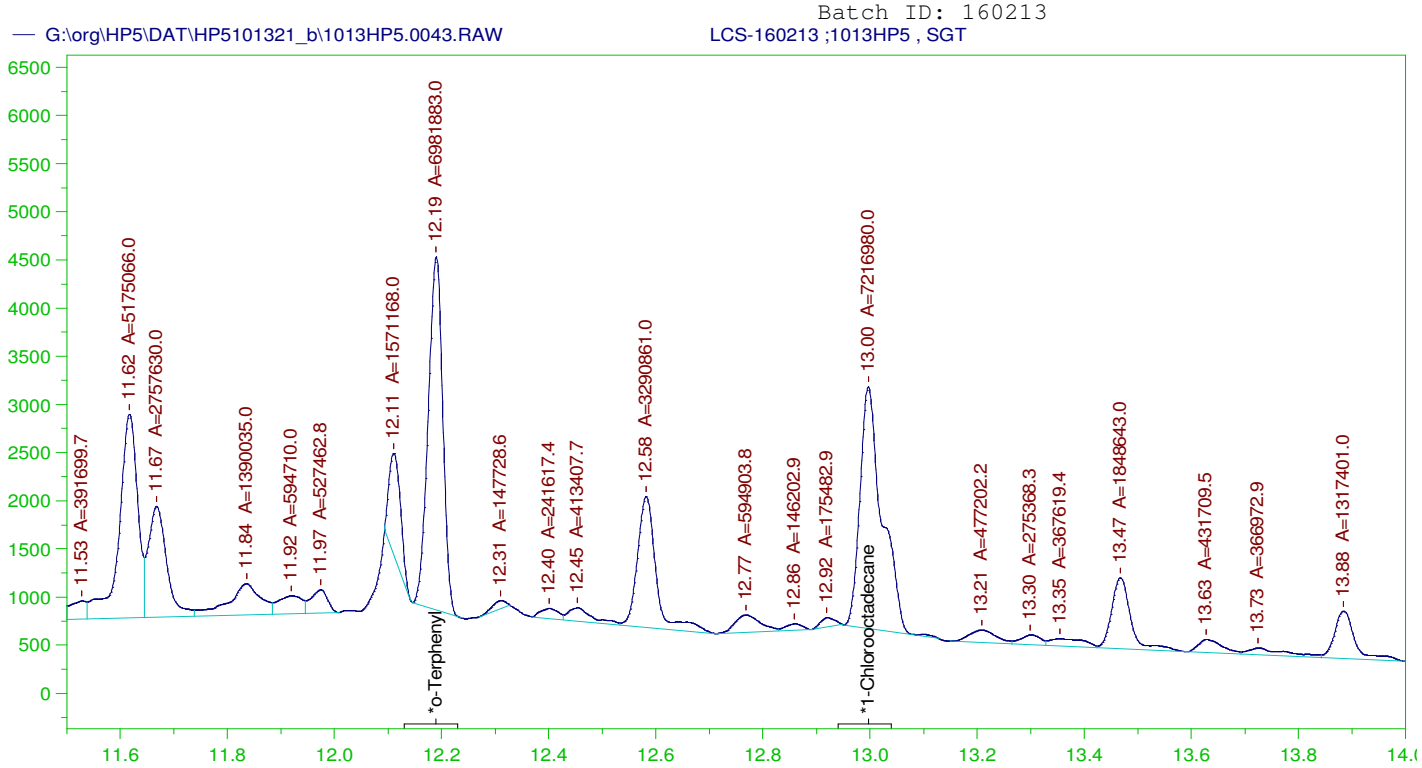
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0043.RAW
Date & Time Acquired: 10/14/2021 8:07:16 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

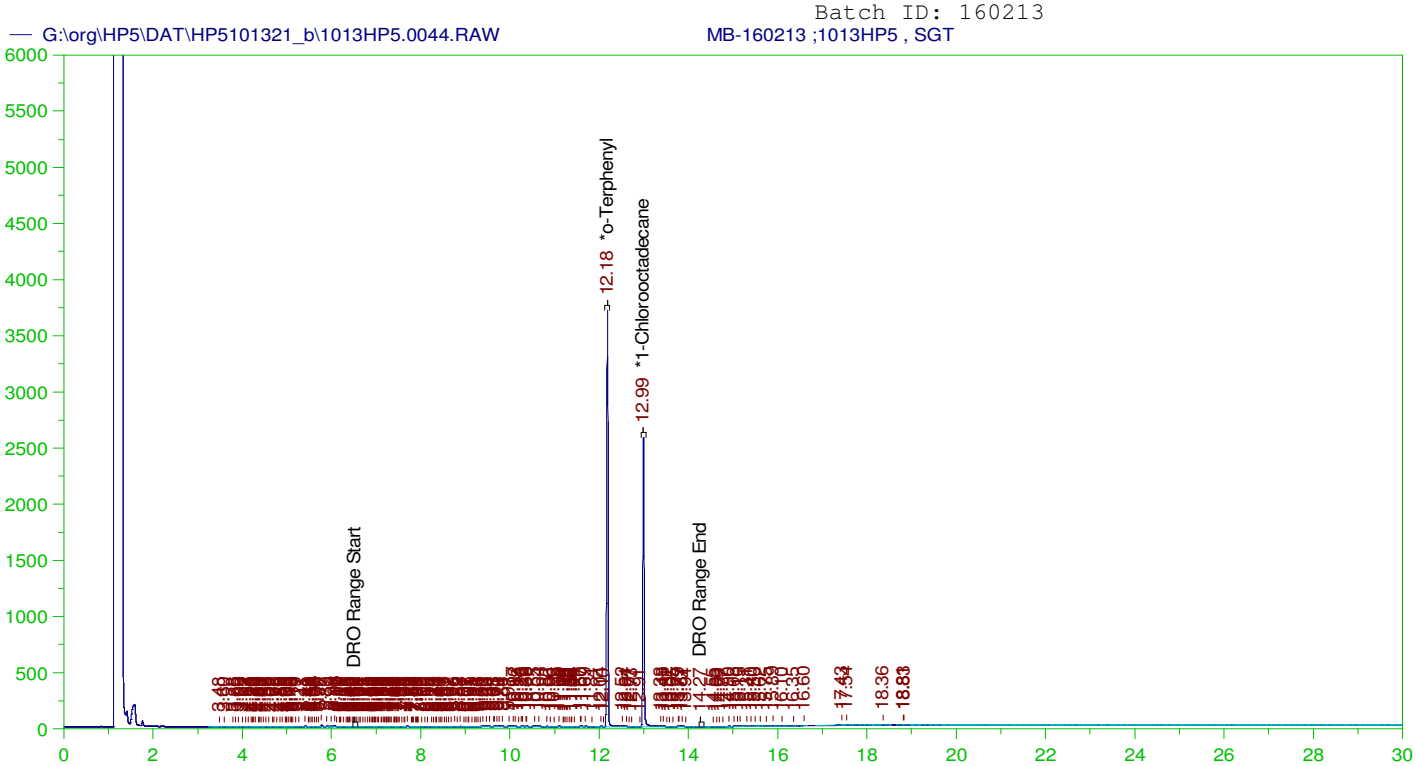
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.19 | .2 | .199 | 99.54 | - |
| *1-Chlorooctadecane | 12.997 | .2 | .206 | 102.89 | - |

DRO Area:1.95124E+08 DRO Amount: 6.623953
TEH Area:2.066326E+08 TEH Amount: 7.014641

G:\org\HP5\dat\HP5101321_b\Review\043_LCS-160213_DS_8015-area-HSA-L#.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0044.RAW
Date & Time Acquired: 10/14/2021 8:50:10 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .206 | 102.99 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .162 | 80.98 | - |

DRO Area:484911.8 DRO Amount: 0.0164615
TEH Area:741644.8 TEH Amount: 2.517691E-02

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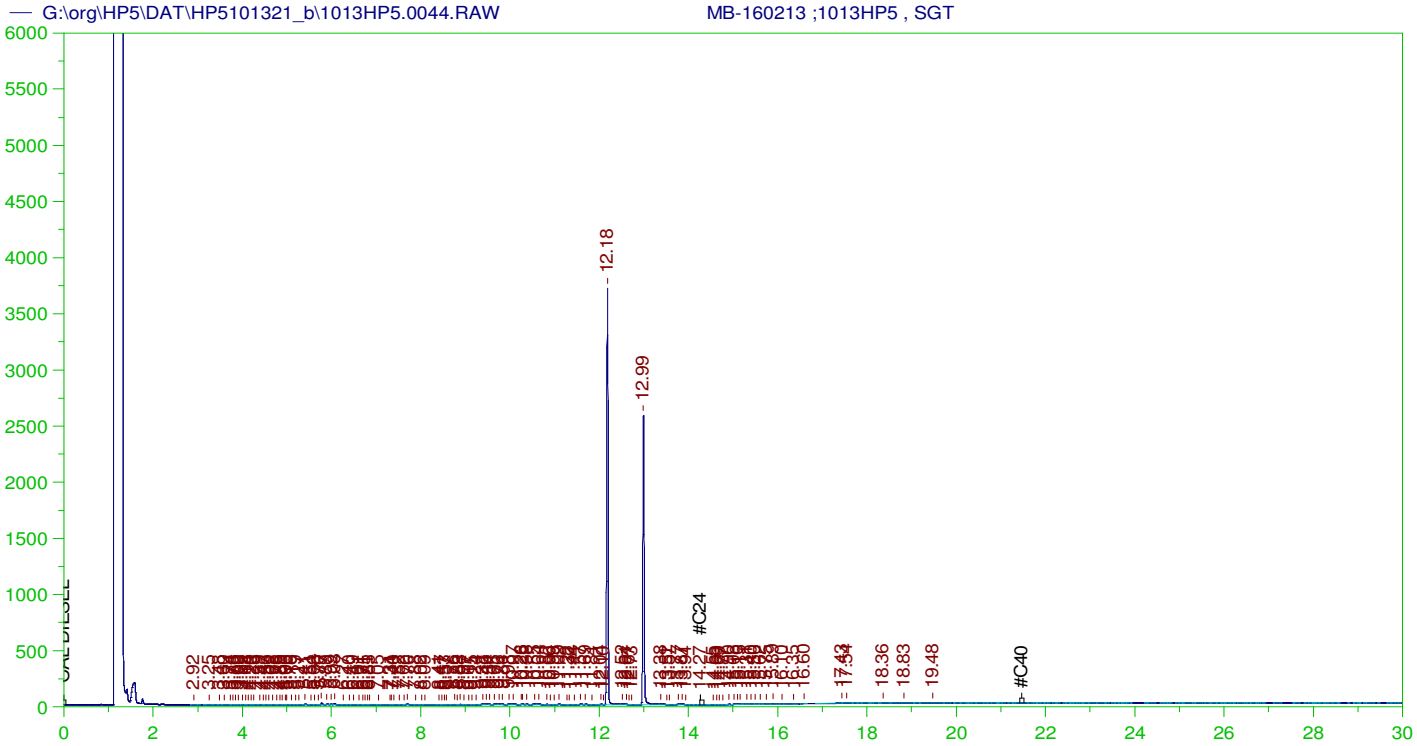


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0044.RAW
Date & Time Acquired: 10/14/2021 8:50:10 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.25 to 21.52

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:75587.62 RRO AMOUNT: 2.648256E-03

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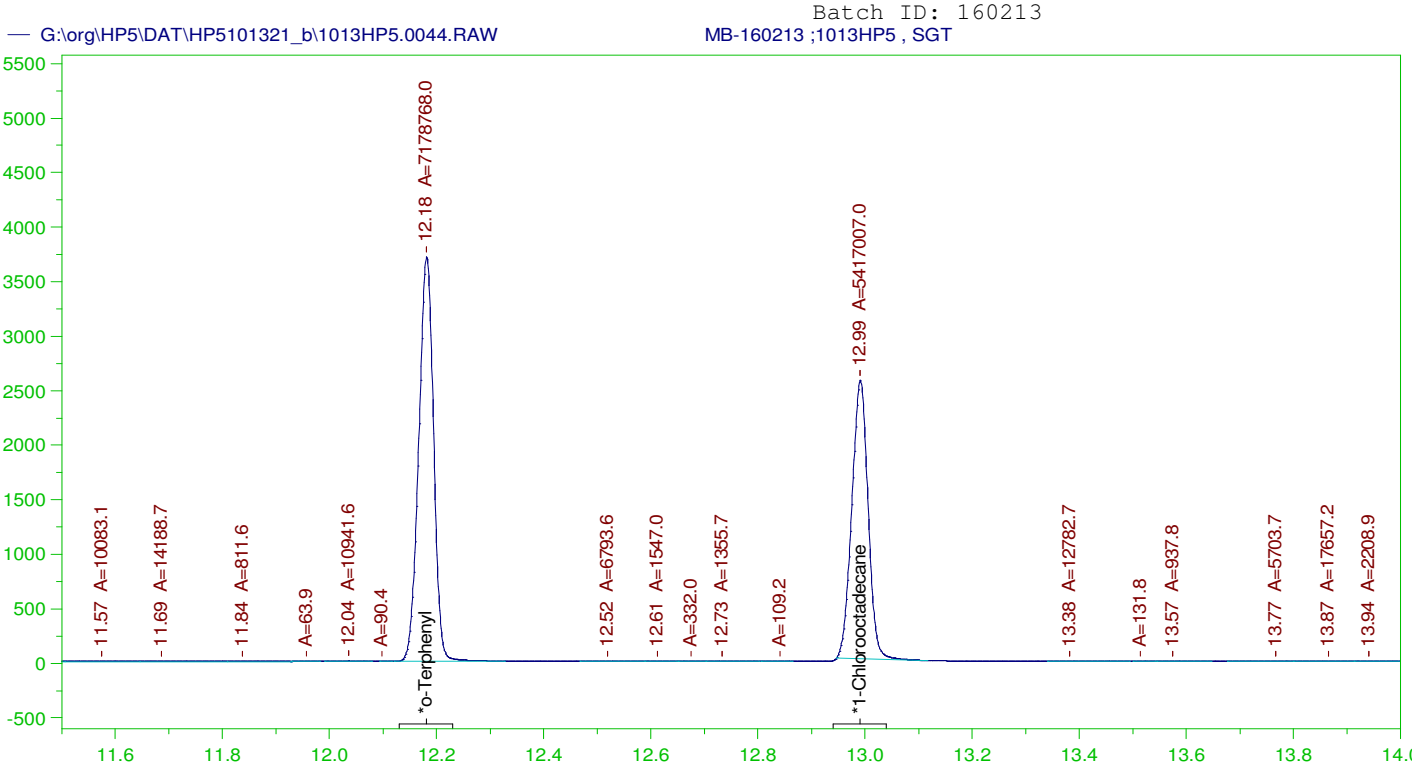
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0044.RAW
Date & Time Acquired: 10/14/2021 8:50:10 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

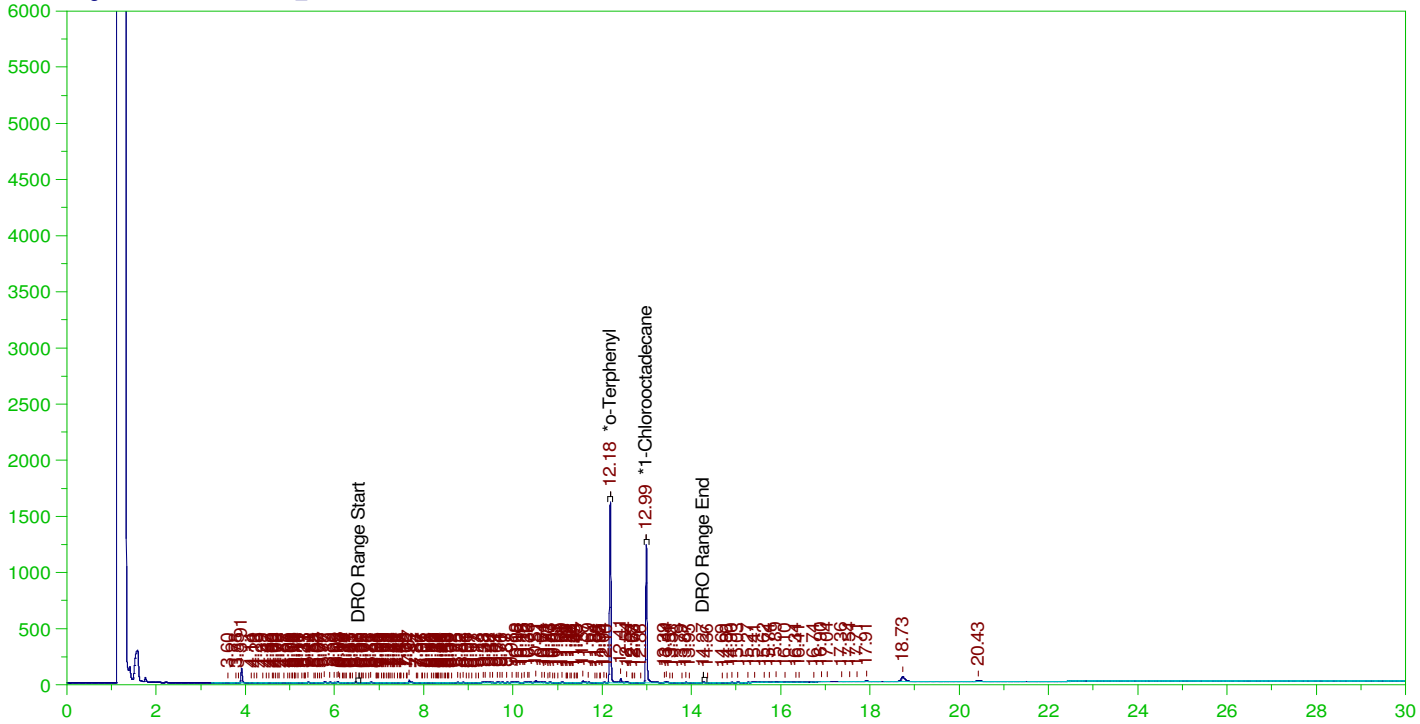
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .205 | 102.35 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .154 | 77.23 | - |

DRO Area:434247.7 DRO Amount: 1.474158E-02
TEH Area:668893.9 TEH Amount: 2.270721E-02

G:\org\HP5\dat\HP5101321_b\Review\044_MB-160213_DS_8015-area-HSA-L#.xls

**ERH1772 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.177 | .19 | .086 | 45.32 | - |
| *1-Chlorooctadecane | 12.987 | .19 | .075 | 39.62 | - |

DRO Area:799013.4 DRO Amount: 2.583279E-02
TEH Area:1628058 TEH Amount: 5.263652E-02

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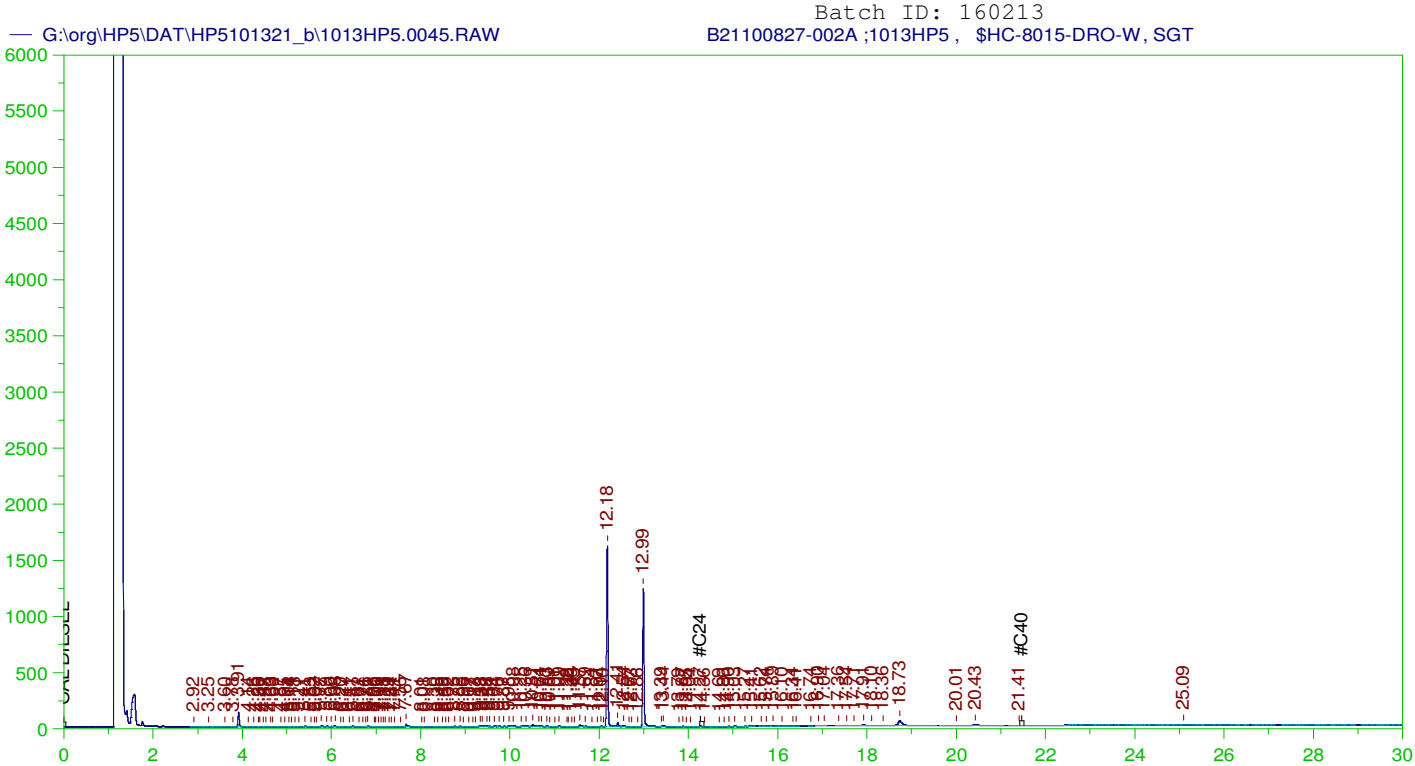
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.25 to 21.52

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:349443.6 RRO AMOUNT: 1.165996E-02

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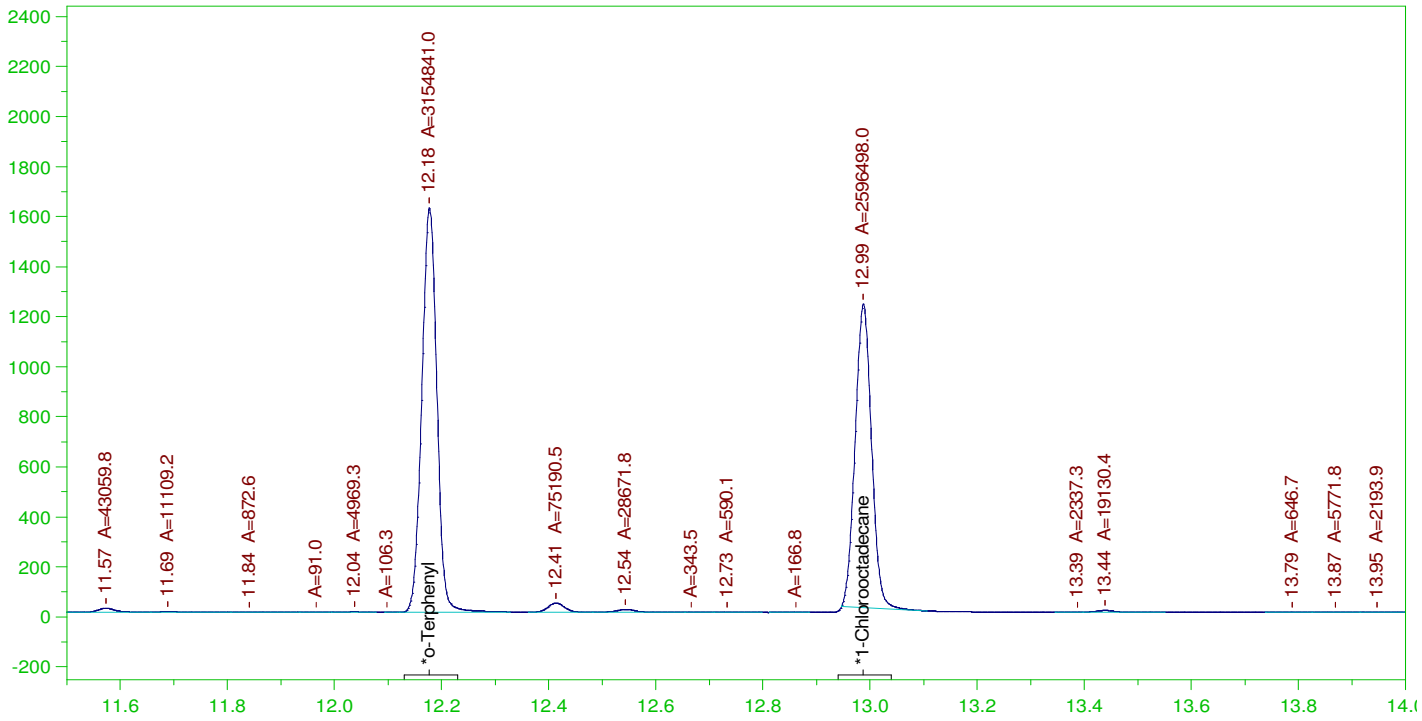
**ERH1772 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0045.RAW
Date & Time Acquired: 10/14/2021 9:33:02 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

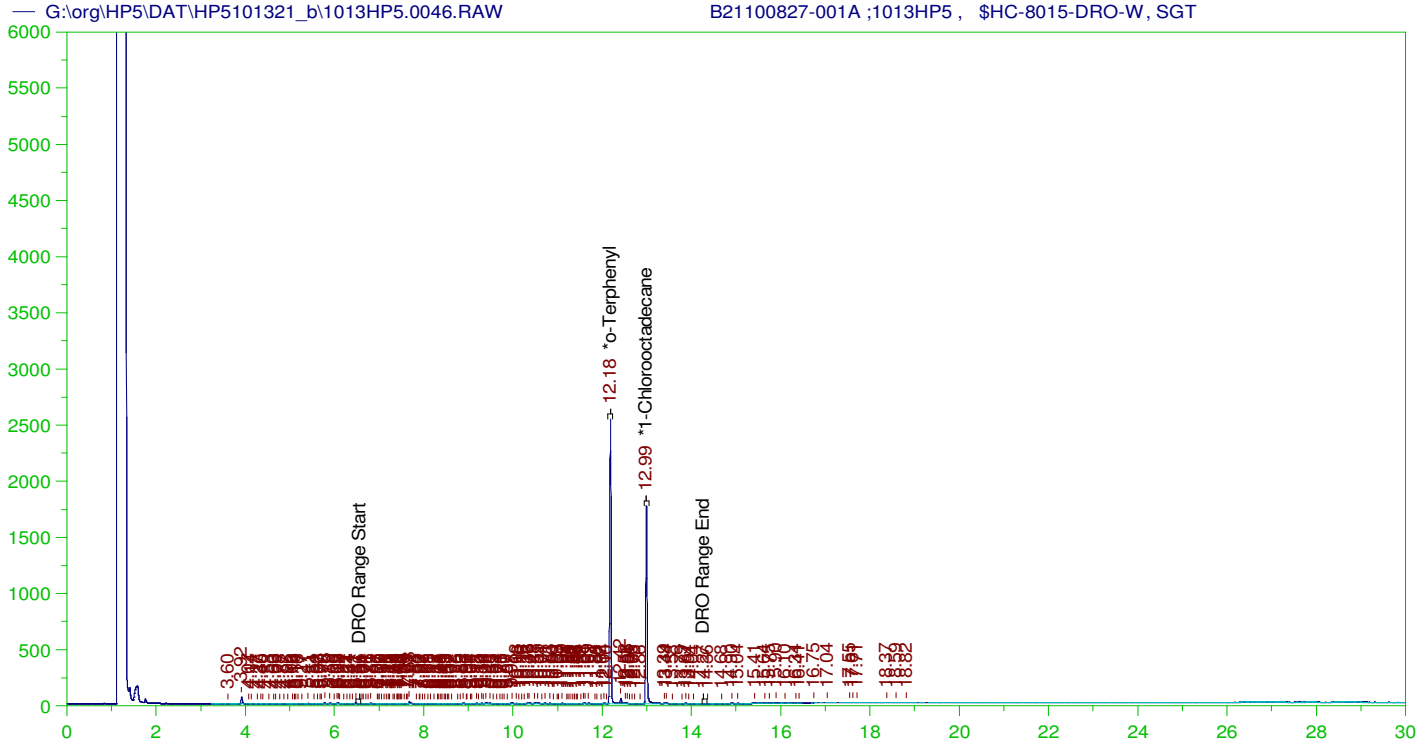
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.177 | .19 | .086 | 44.98 | - |
| *1-Chlorooctadecane | 12.987 | .19 | .071 | 37.02 | - |

DRO Area:675439.8 DRO Amount: 2.183755E-02
TEH Area:1197414 TEH Amount: 3.871342E-02

G:\org\HP5\dat\HP5101321_b\Review\045_B21100827-002A_DS_8015-area-HSA-L#.xls

**ERH1767 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .191 | .134 | 70.08 | - |
| *1-Chlorooctadecane | 12.989 | .191 | .108 | 56.38 | - |

DRO Area:621063.5 DRO Amount: 2.017559E-02
TEH Area:961300.5 TEH Amount: 3.122838E-02

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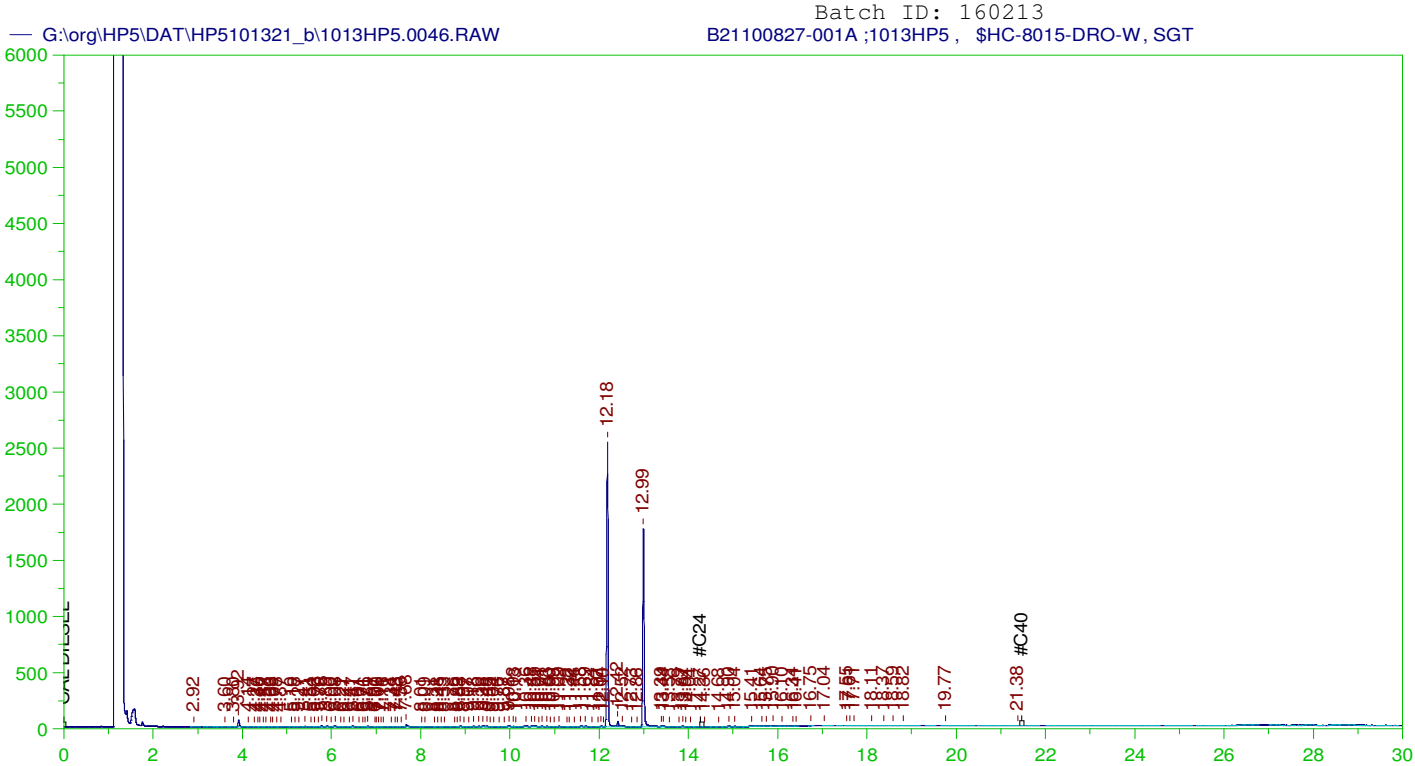
Batch ID: 160213




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

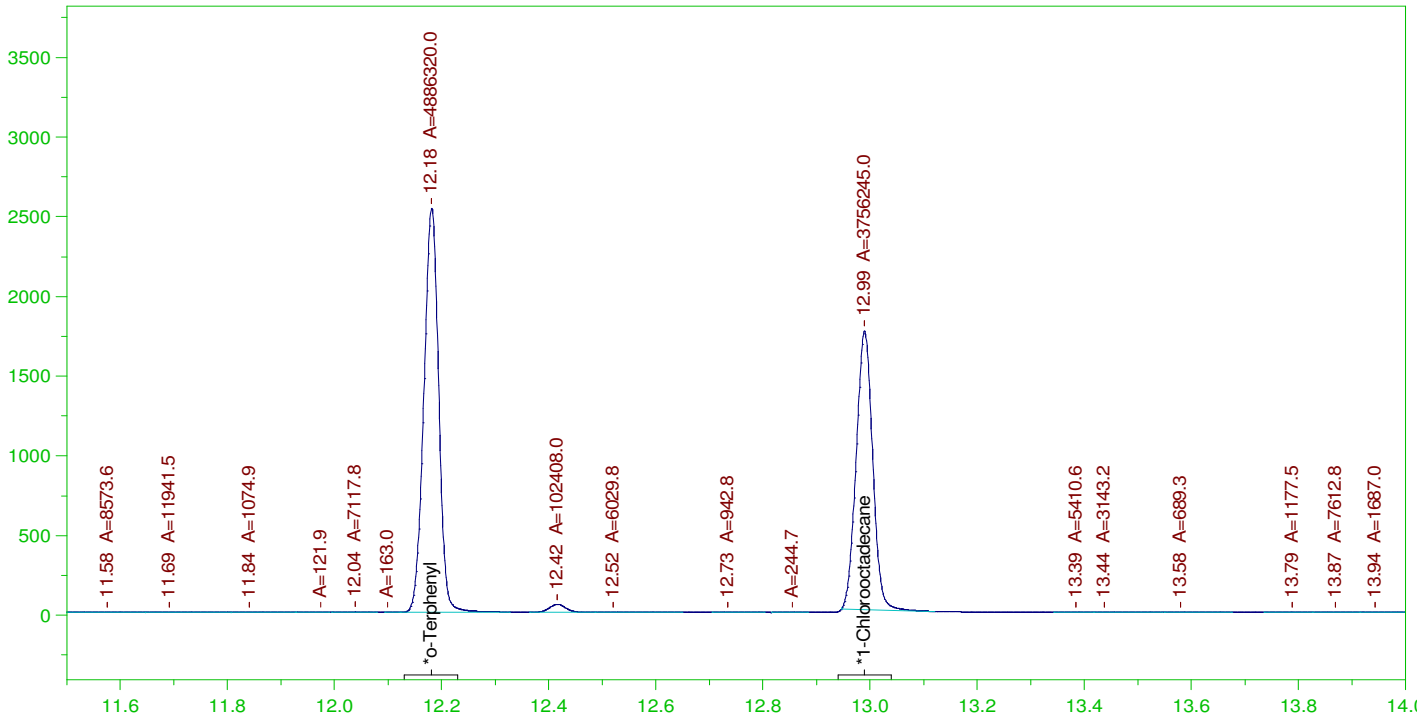
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.25 to 21.52

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:55630.14 RRO AMOUNT: 1.865105E-03

**ERH1767 (RHMW12A)** Batch ID: 160213

— G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0046.RAW
Date & Time Acquired: 10/14/2021 10:15:55 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .191 | .133 | 69.66 | - |
| *1-Chlorooctadecane | 12.989 | .191 | .102 | 53.55 | - |

DRO Area:529016.8 DRO Amount: 0.0171854
TEH Area:834788.9 TEH Amount: 2.711858E-02

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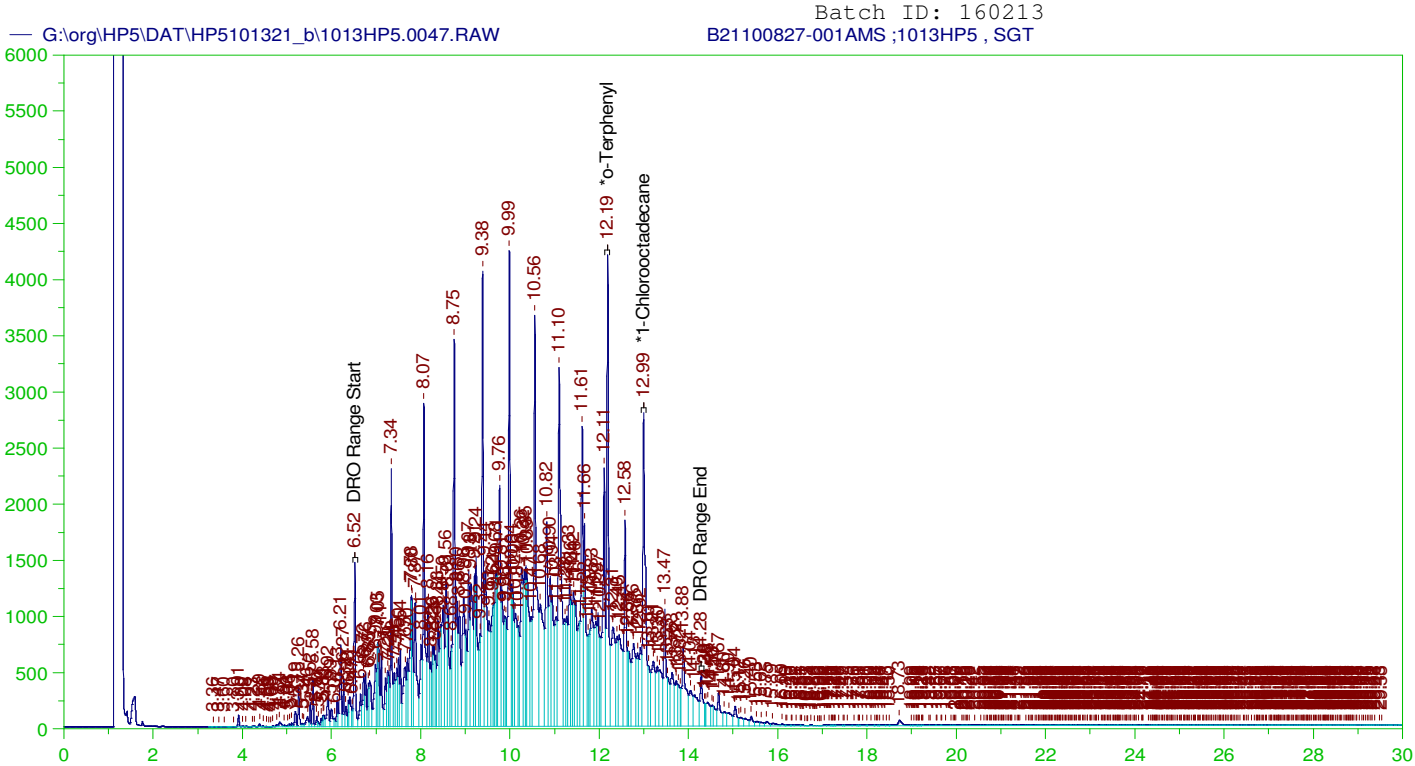
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMS ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0047.RAW
Date & Time Acquired: 10/14/2021 10:58:49 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.186 | .4 | .651 | 162.83 | - |
| *1-Chlorooctadecane | 12.994 | .4 | .64 | 159.99 | - |

DRO Area:3.887462E+08 DRO Amount: 26.39385
TEH Area:4.128518E+08 TEH Amount: 28.03049

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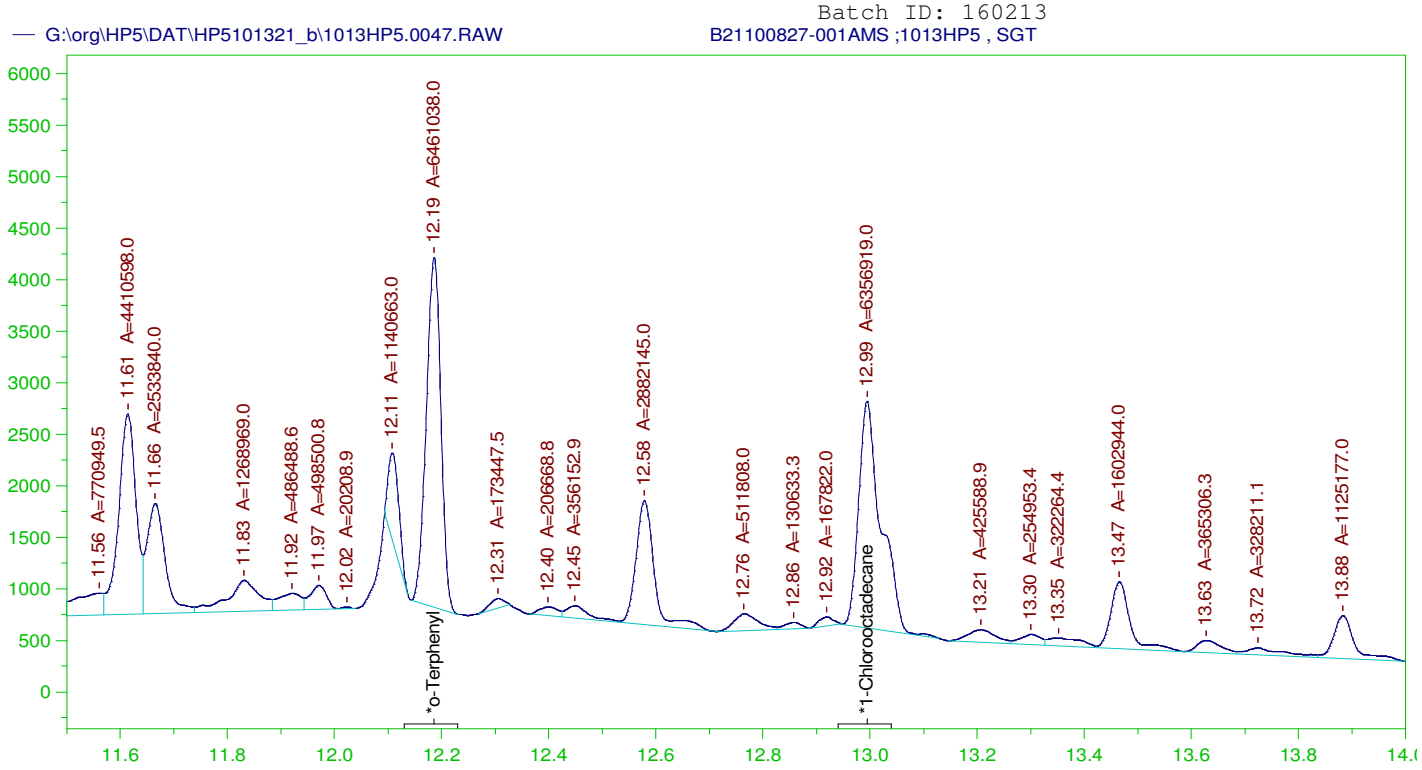
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMS ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0047.RAW
Date & Time Acquired: 10/14/2021 10:58:49 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.186 | .4 | .368 | 92.11 | - |
| *1-Chlorooctadecane | 12.994 | .4 | .363 | 90.63 | - |

DRO Area:1.891908E+08 DRO Amount: 12.84508
TEH Area:1.996046E+08 TEH Amount: 13.55212

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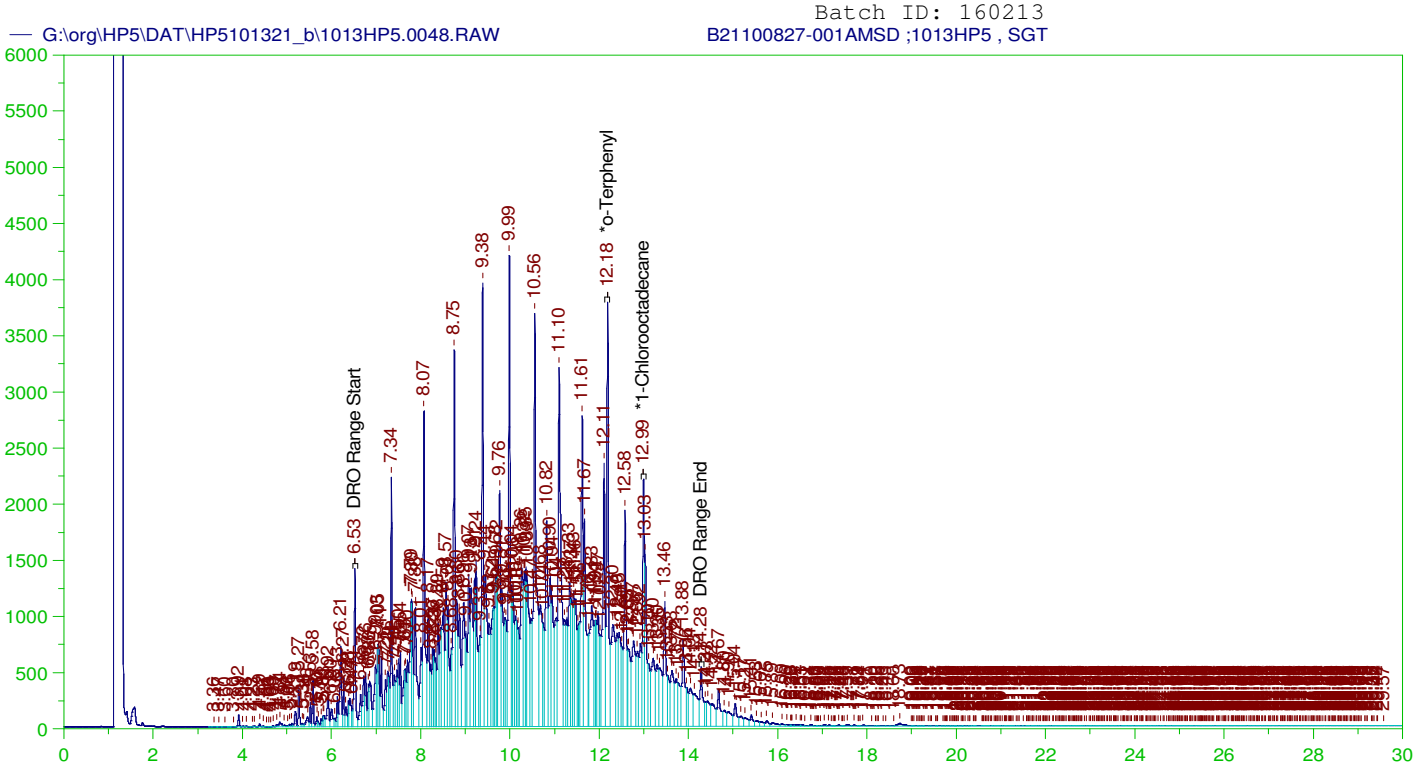
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

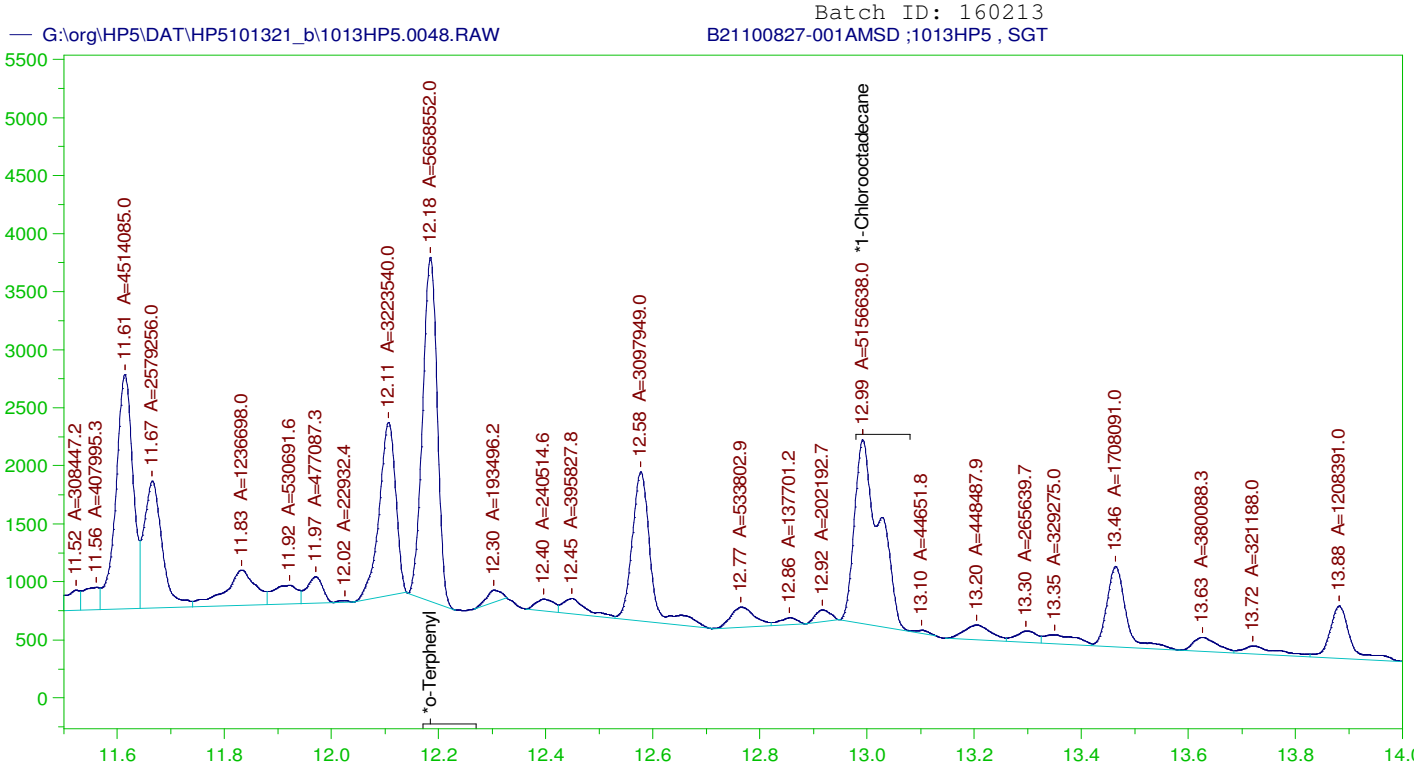
Sample Name: B21100827-001AMSD ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0048.RAW
Date & Time Acquired: 10/14/2021 11:41:43 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | .4 | .609 | 152.14 | - |
| *1-Chlorooctadecane | 12.992 | .4 | .348 | 86.93 | - |

DRO Area:3.915414E+08 DRO Amount: 26.58363
TEH Area:4.160698E+08 TEH Amount: 28.24898

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-001AMSD ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0048.RAW
Date & Time Acquired: 10/14/2021 11:41:43 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HS-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | .4 | .323 | 80.67 | - |
| *1-Chlorooctadecane | 12.992 | .4 | .294 | 73.52 | - |

DRO Area:1.875254E+08 DRO Amount: 12.732
TEH Area:1.965738E+08 TEH Amount: 13.34634

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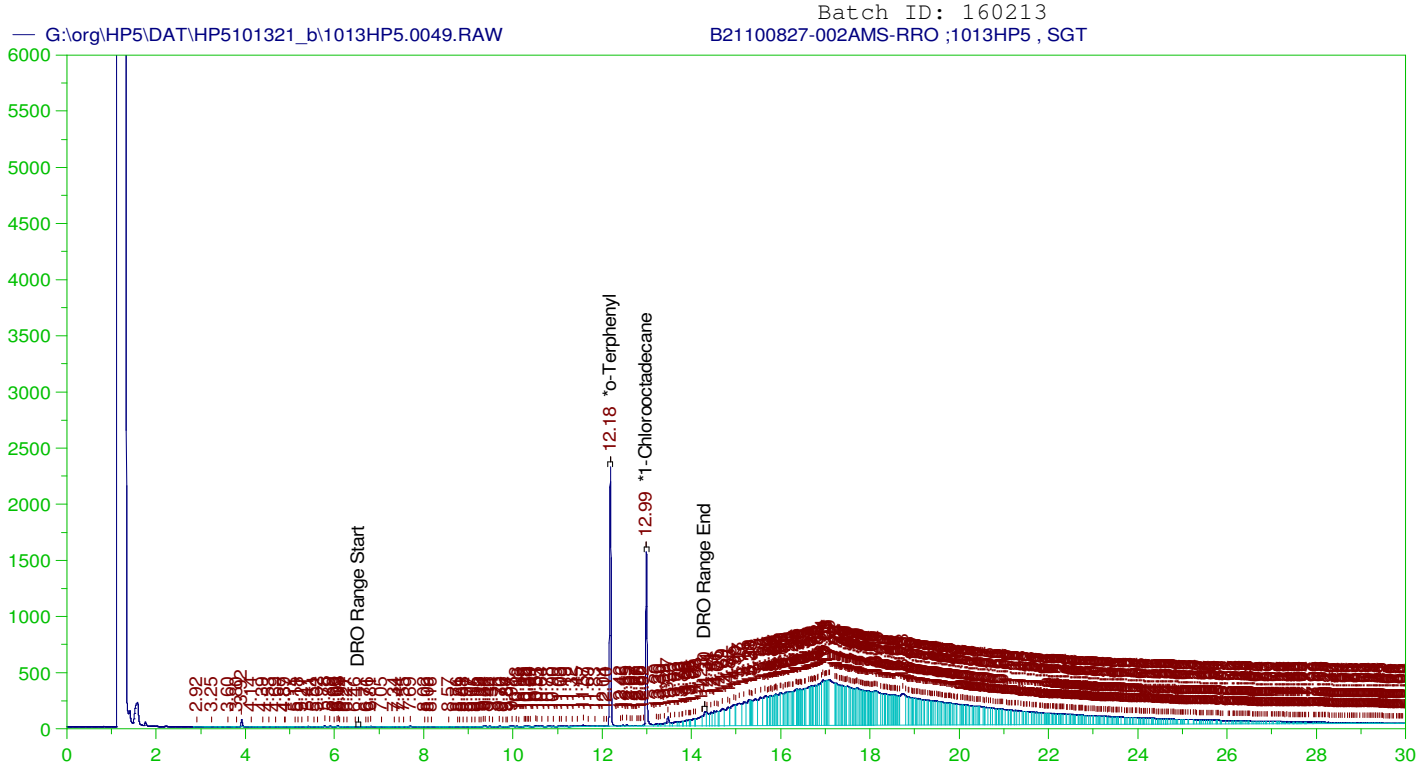


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0049.RAW
Date & Time Acquired: 10/15/2021 12:24:34 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .252 | 64.94 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .197 | 50.78 | - |

DRO Area:4442596 DRO Amount: 0.3022309
TEH (Oil Range) Area:1.284118E+08 TEH (Oil Range) Amount: 8.735885

AMN 10/21/2021

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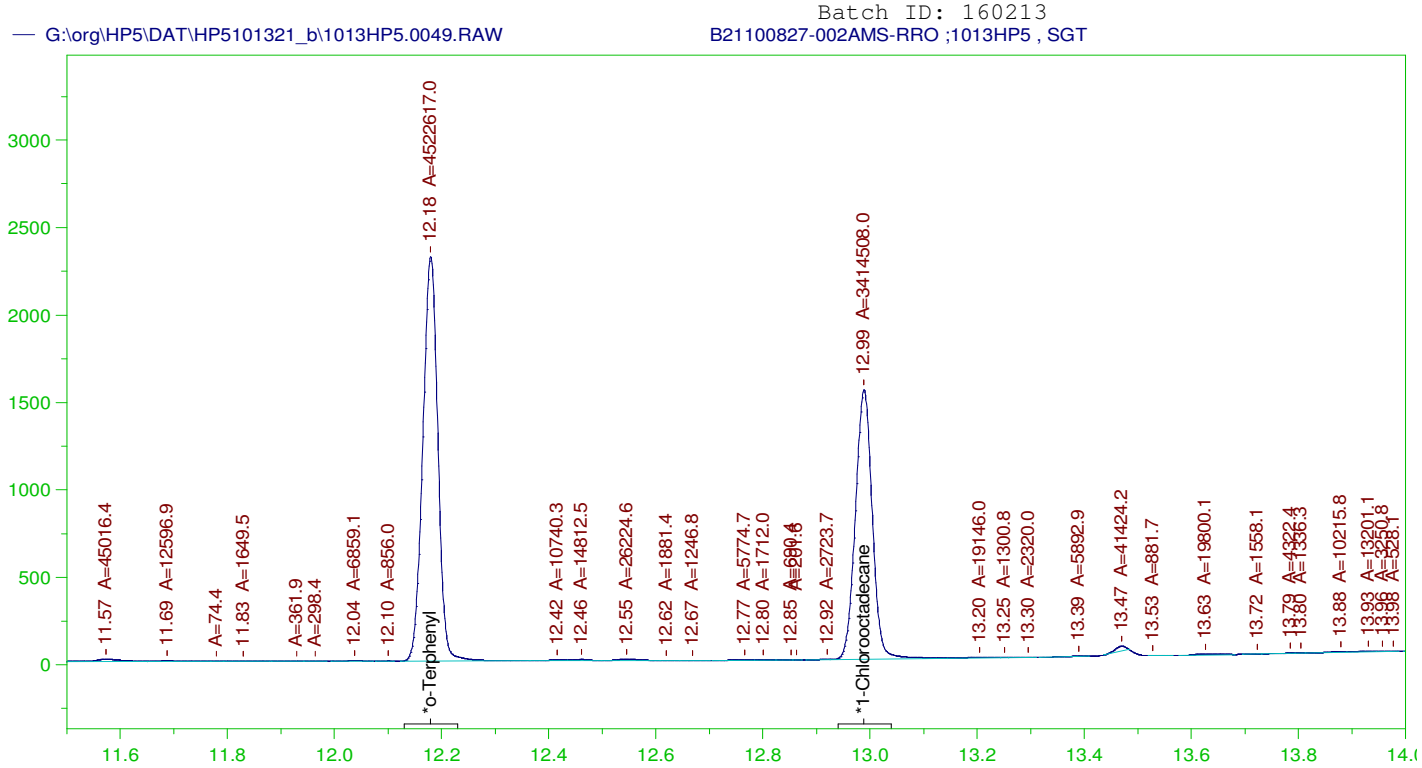
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMS-RRO ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0049.RAW
Date & Time Acquired: 10/15/2021 12:24:34 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .25 | 64.48 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .189 | 48.68 | - |

DRO Area:738142.7 DRO Amount: 5.021604E-02
TEH Area:2434181 TEH Amount: 0.1655979

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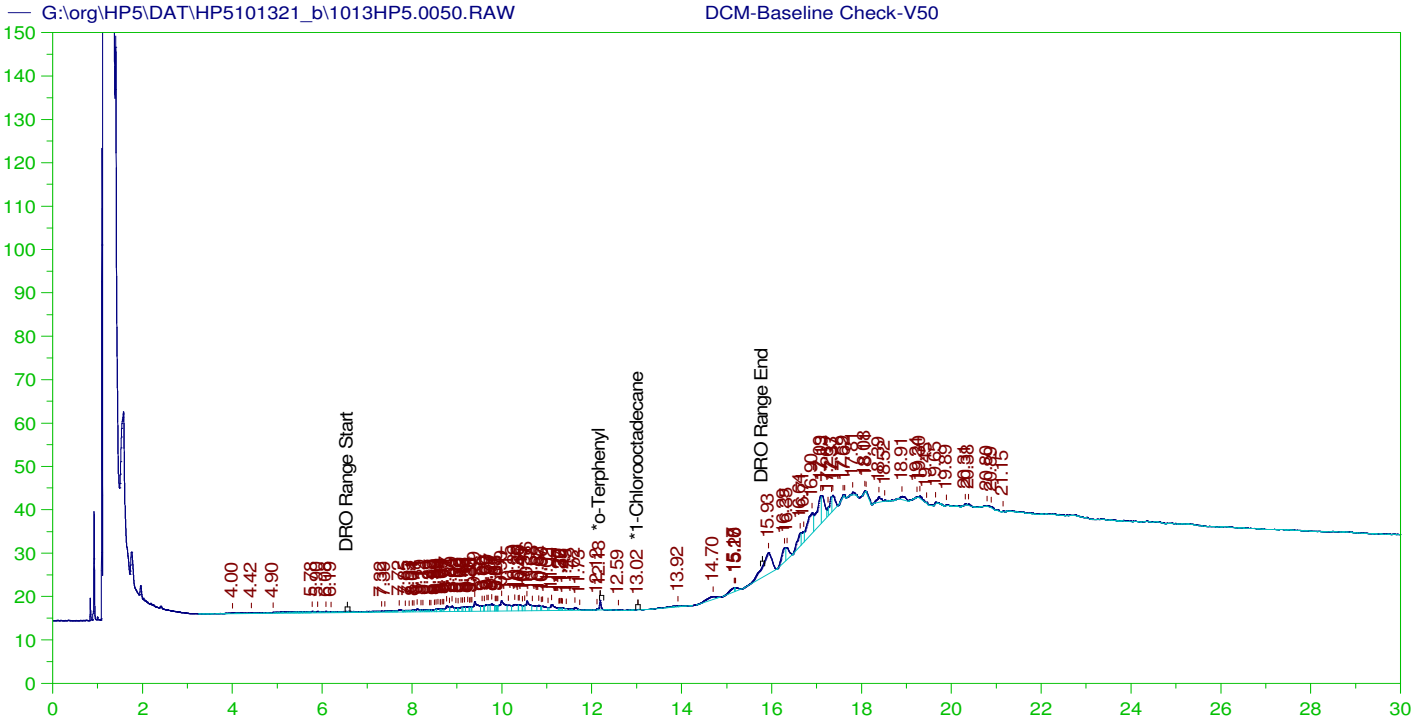



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

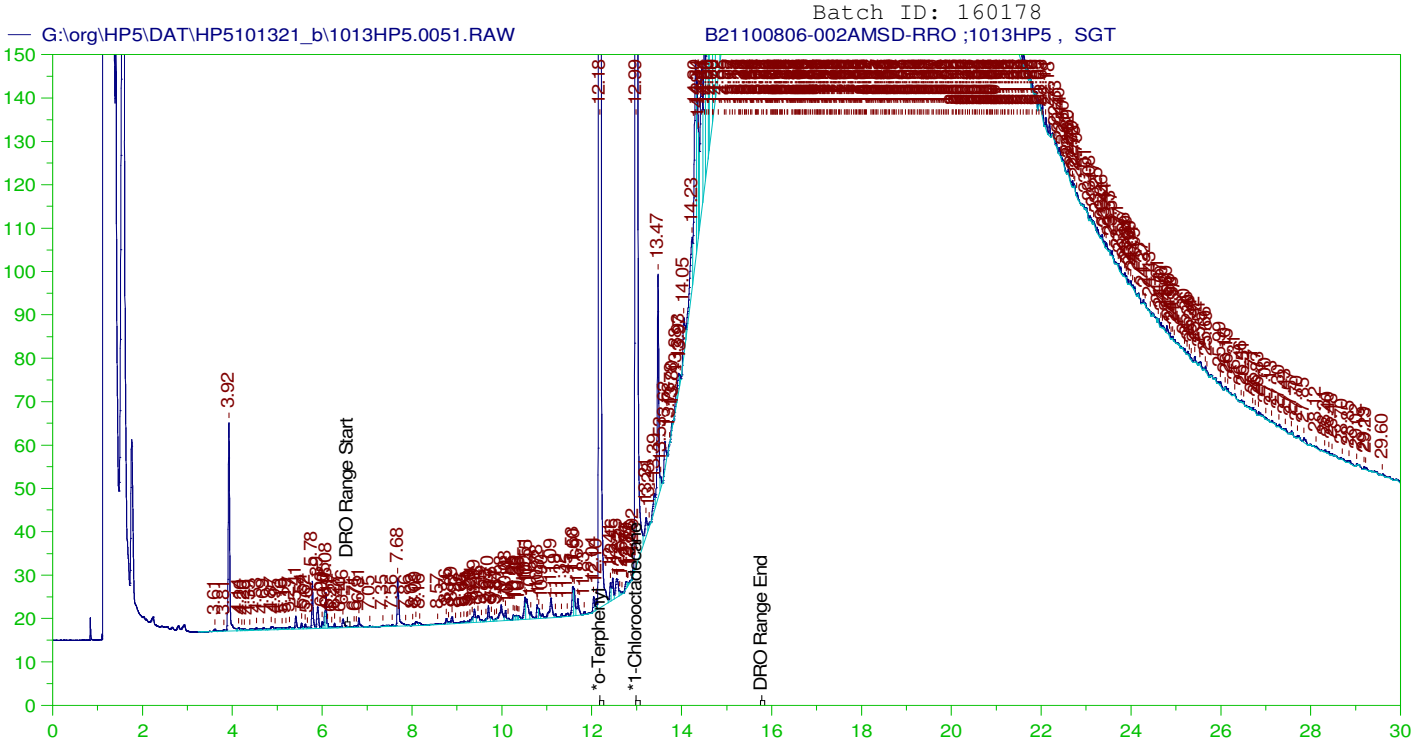
Sample Name: DCM-Baseline Check-V50
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0050.RAW
Date & Time Acquired: 10/15/2021 1:07:28 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.183 | 200. | .185 | .09 | - |
| *1-Chlorooctadecane | 13.024 | 200. | .015 | .01 | - |

DRO Area:265331.7 DRO Amount: 9.007322
TEH Area:652107.5 TEH Amount: 22.13736

Batch ID: 160178




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100806-002AMSD-RRO ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0051.RAW
Date & Time Acquired: 10/15/2021 1:50:20 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 510 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .392 | .217 | 55.33 | - |
| *1-Chlorooctadecane | 12.99 | .392 | .184 | 46.88 | - |

DRO Area:4879029 DRO Amount: 0.3247654
TEH Area:1.137819E+07 TEH Amount: 0.7573723

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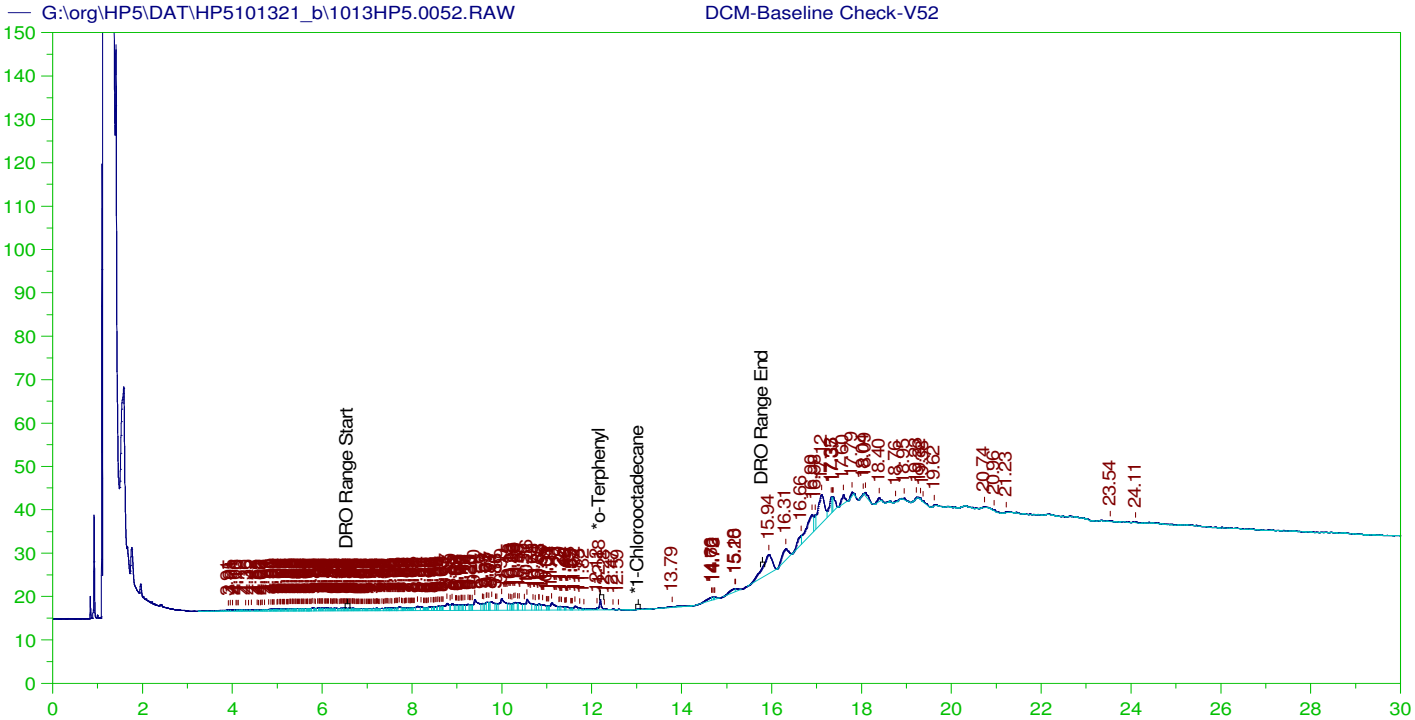


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V52
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0052.RAW
Date & Time Acquired: 10/15/2021 2:33:14 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | .243 | .12 | - |
| *1-Chlorooctadecane | 29.989 | 200. | . | . | - |

DRO Area:376194.8 DRO Amount: 12.77084
TEH Area:782327.4 TEH Amount: 26.55799

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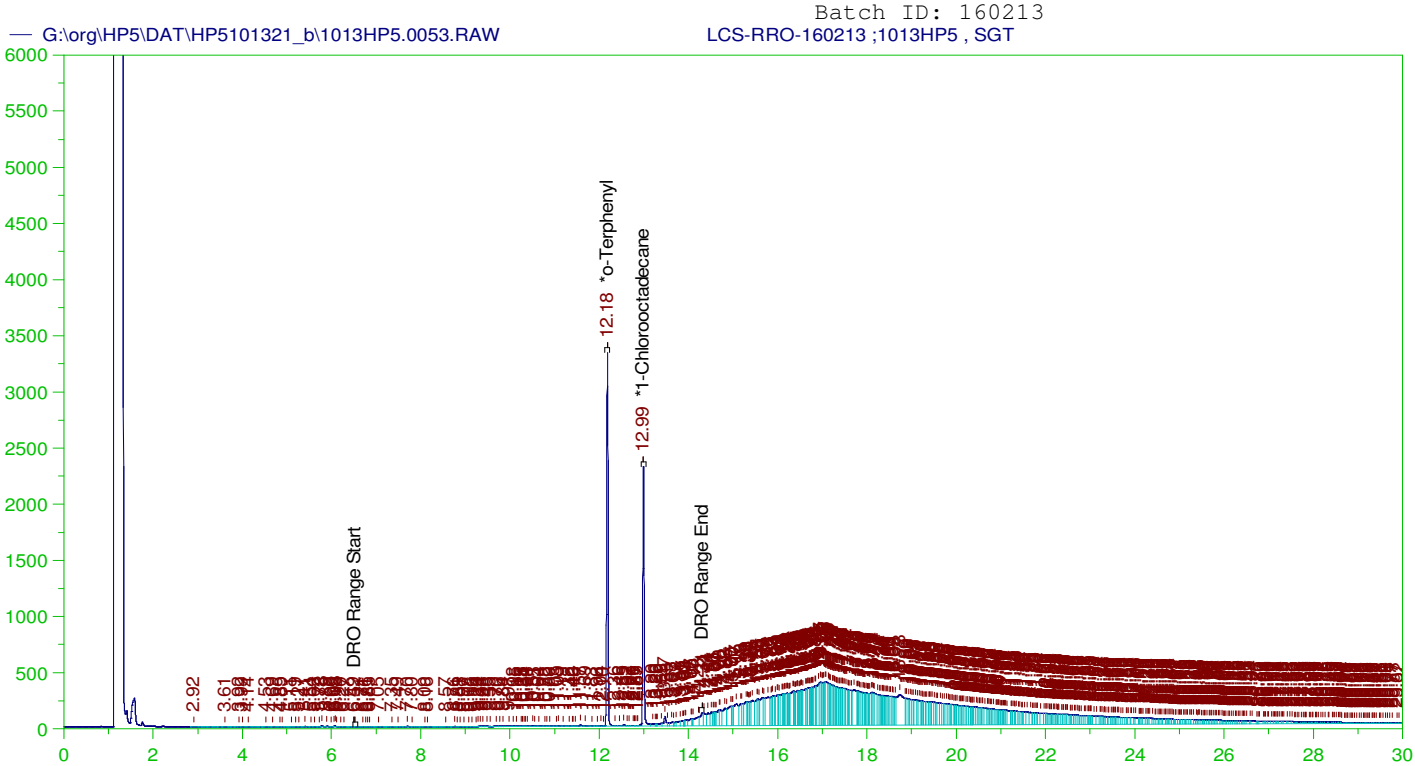
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-RRO-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0053.RAW
Date & Time Acquired: 10/15/2021 3:16:03 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .185 | 92.41 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .149 | 74.54 | - |

DRO Area:3731566 DRO Amount: 0.1307376
TEH (Oil Range) Area:1.219831E+08 TEH (Oil Range) Amount: 4.273749

AMN 10/21/2021

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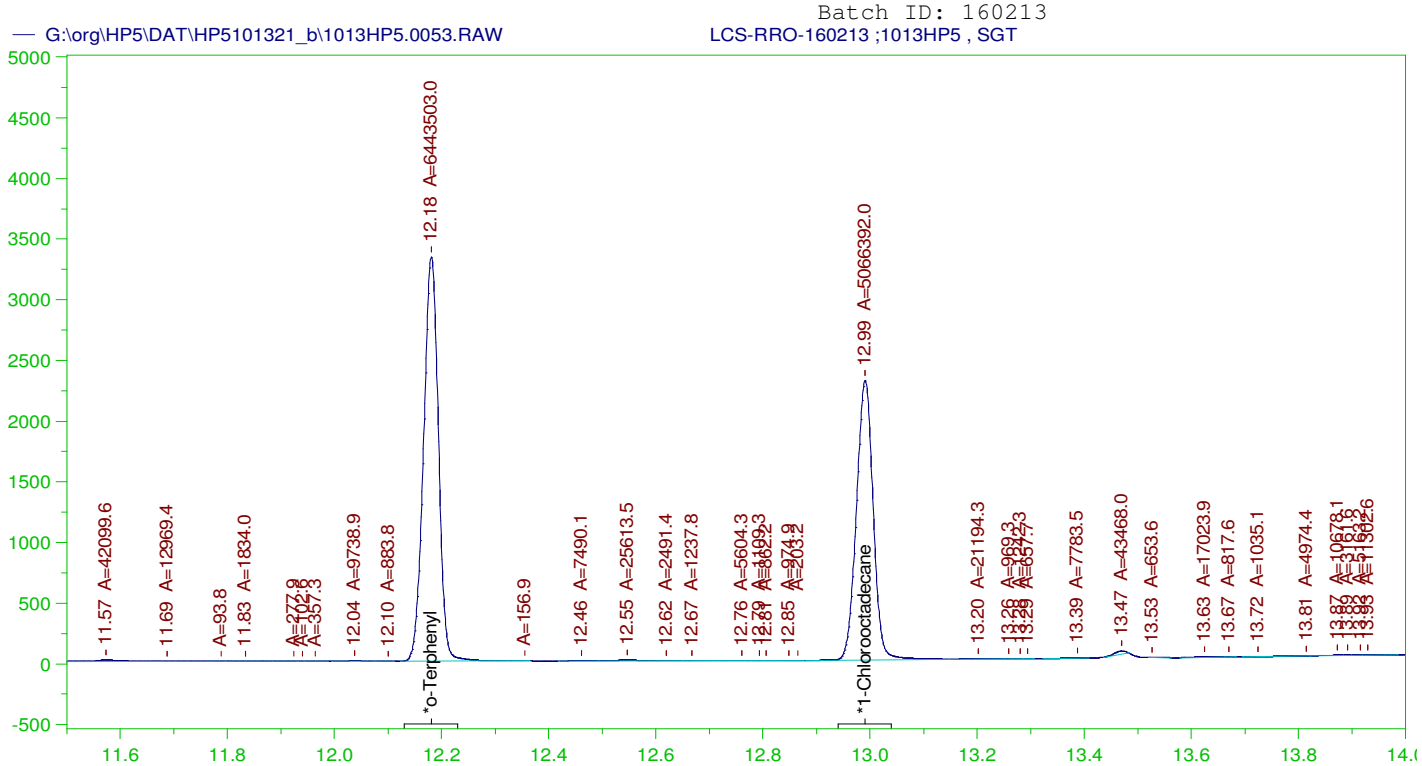
Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-RRO-160213 ;1013HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0053.RAW
Date & Time Acquired: 10/15/2021 3:16:03 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.181 | .2 | .184 | 91.86 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .144 | 72.23 | - |

DRO Area:614931.8 DRO Amount: 2.154449E-02
TEH Area:2037532 TEH Amount: 7.138611E-02

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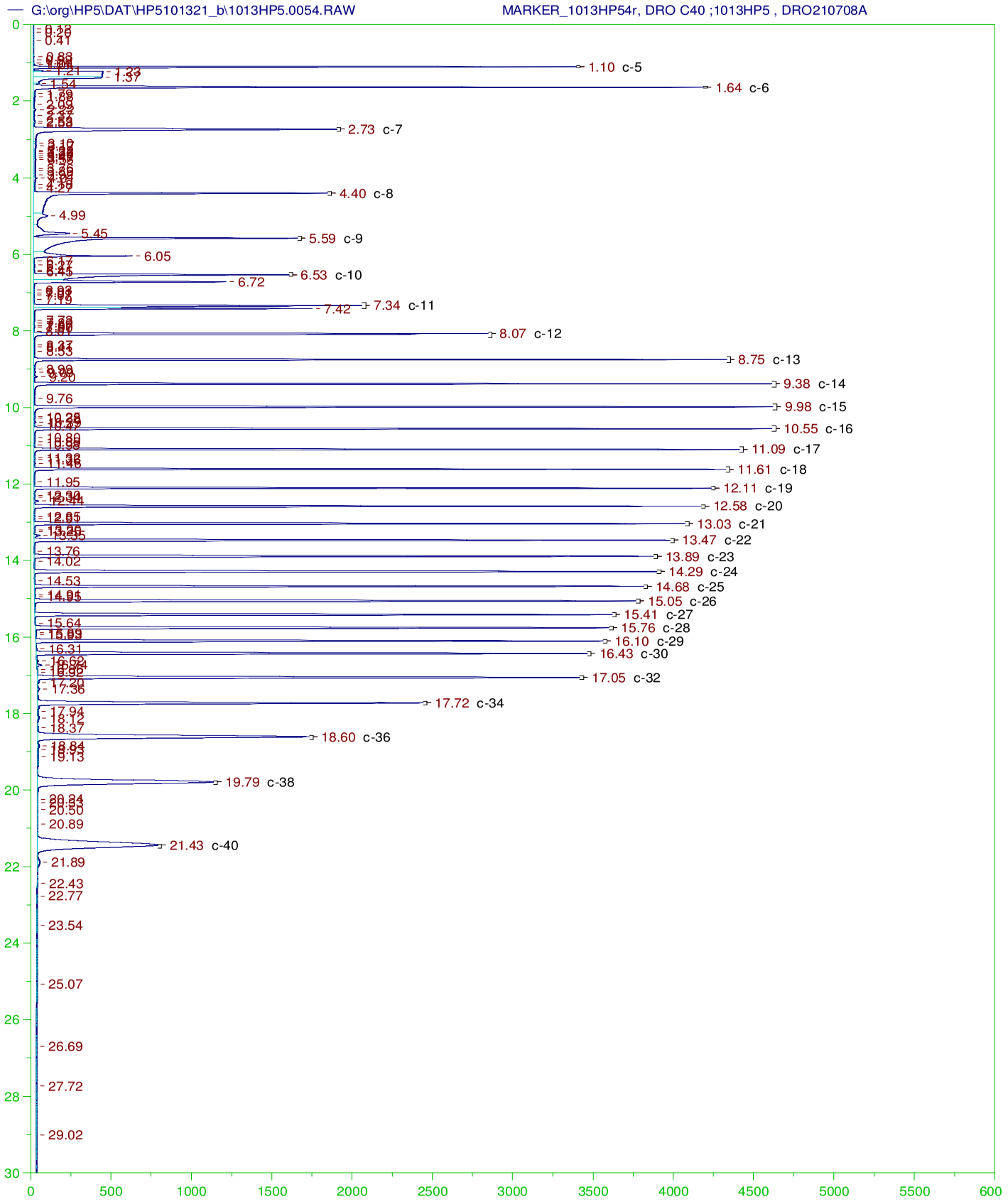


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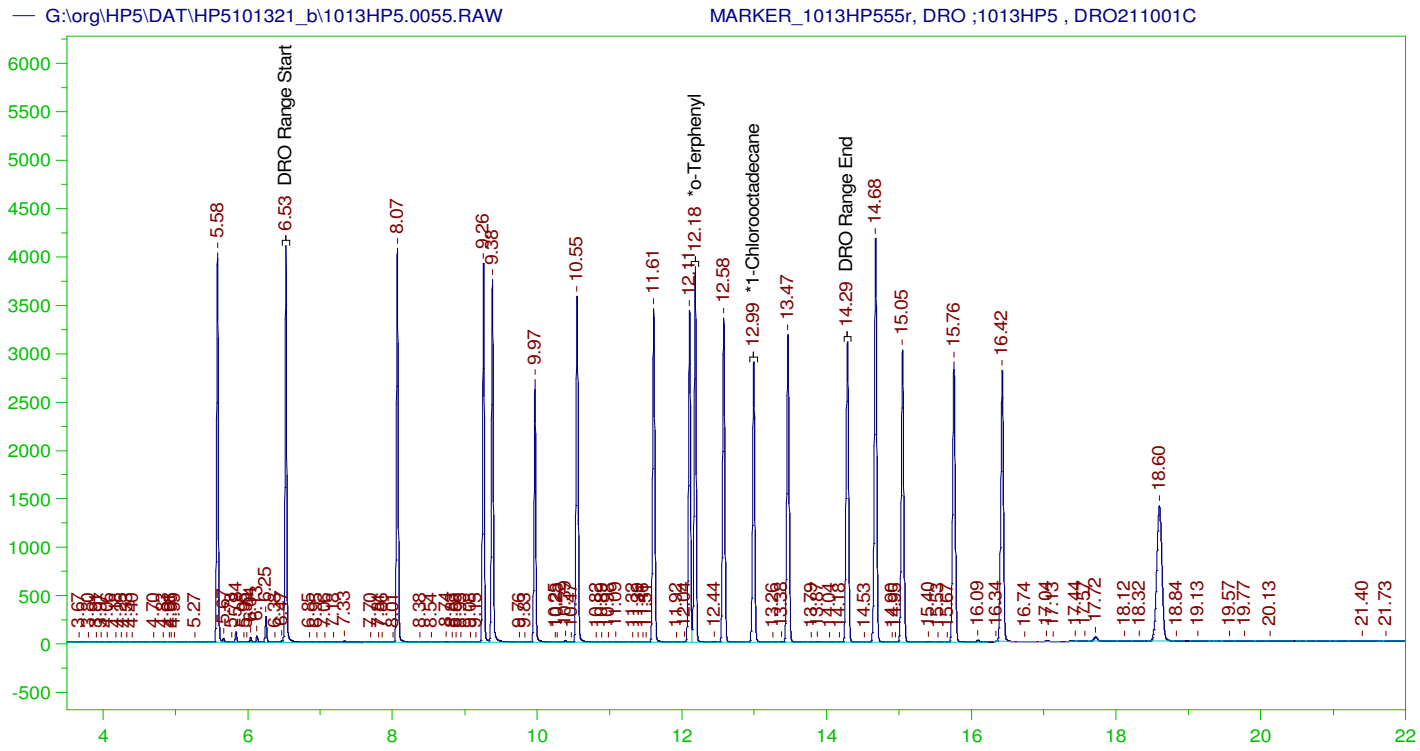


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1013HP555r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0055.RAW
Date & Time Acquired: 10/15/2021 4:41:38 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.183 | .2 | .217 | 108.73 | - |
| *1-Chlorooctadecane | 12.991 | .2 | .176 | 88.1 | - |

DRO Area:7.482385E+07 DRO Amount: 2.540076
TEH Area:1.215464E+08 TEH Amount: 4.126184

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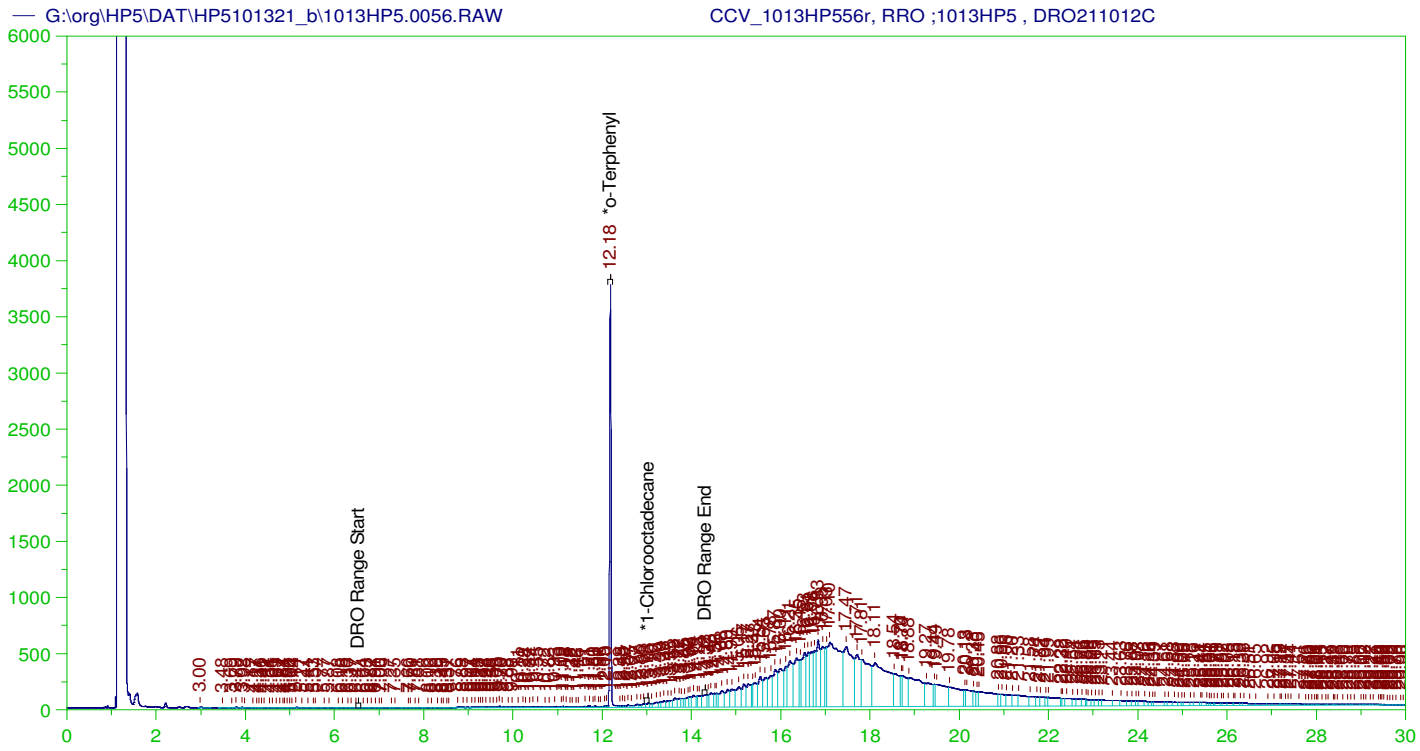



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP556r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW
Date & Time Acquired: 10/15/2021 5:24:30 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 211.092 | 105.55 | - |
| *1-Chlorooctadecane | 13.027 | 200. | 4.709 | 2.35 | - |

DRO Area:6572929 DRO Amount: 230.2864
TEH (Oil Range) Area:1.342254E+08 TEH (Oil Range) Amount: 4702.664

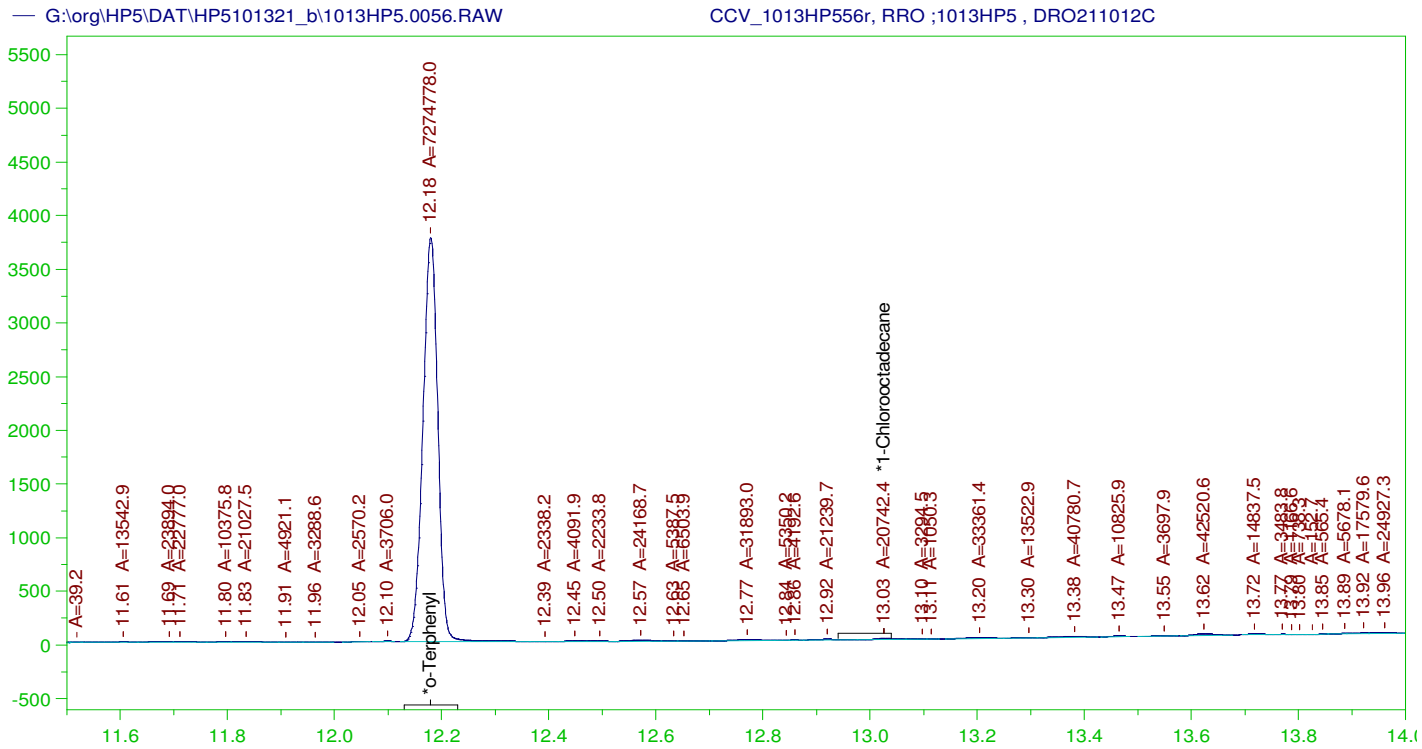
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4702.66 | 94.05 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 211.092 | 105.55 | 85-115 |
| *1-Chlorooctadecane | 13.027 | 200. | 4.709 | 2.35 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\056_CCV_1013HP556r_DC_OIL-AJA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP556r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW
Date & Time Acquired: 10/15/2021 5:24:30 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

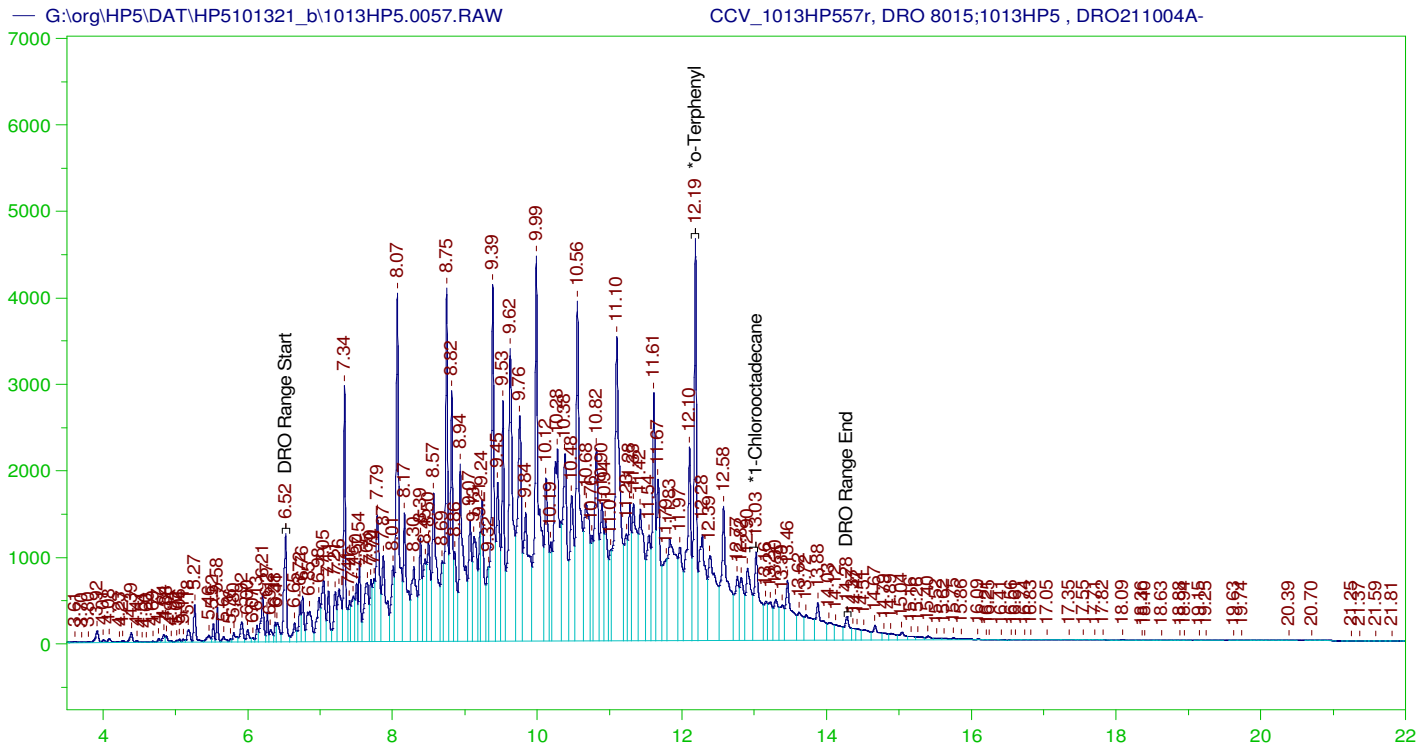
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 207.429 | 103.71 | - |
| *1-Chlorooctadecane | 13.027 | 200. | .591 | .3 | - |

DRO Area:820545.8 DRO Amount: 28.7483
TEH Area:2102297 TEH Amount: 73.6552

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0056.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 73.66 | 1.47 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.18 | 200. | 207.429 | 103.71 | 85-115 |
| *1-Chlorooctadecane | 13.027 | 200. | .591 | .3 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW
Date & Time Acquired: 10/15/2021 6:07:16 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 330.171 | 165.09 | - |
| *1-Chlorooctadecane | 13.025 | 200. | 151.391 | 75.7 | - |

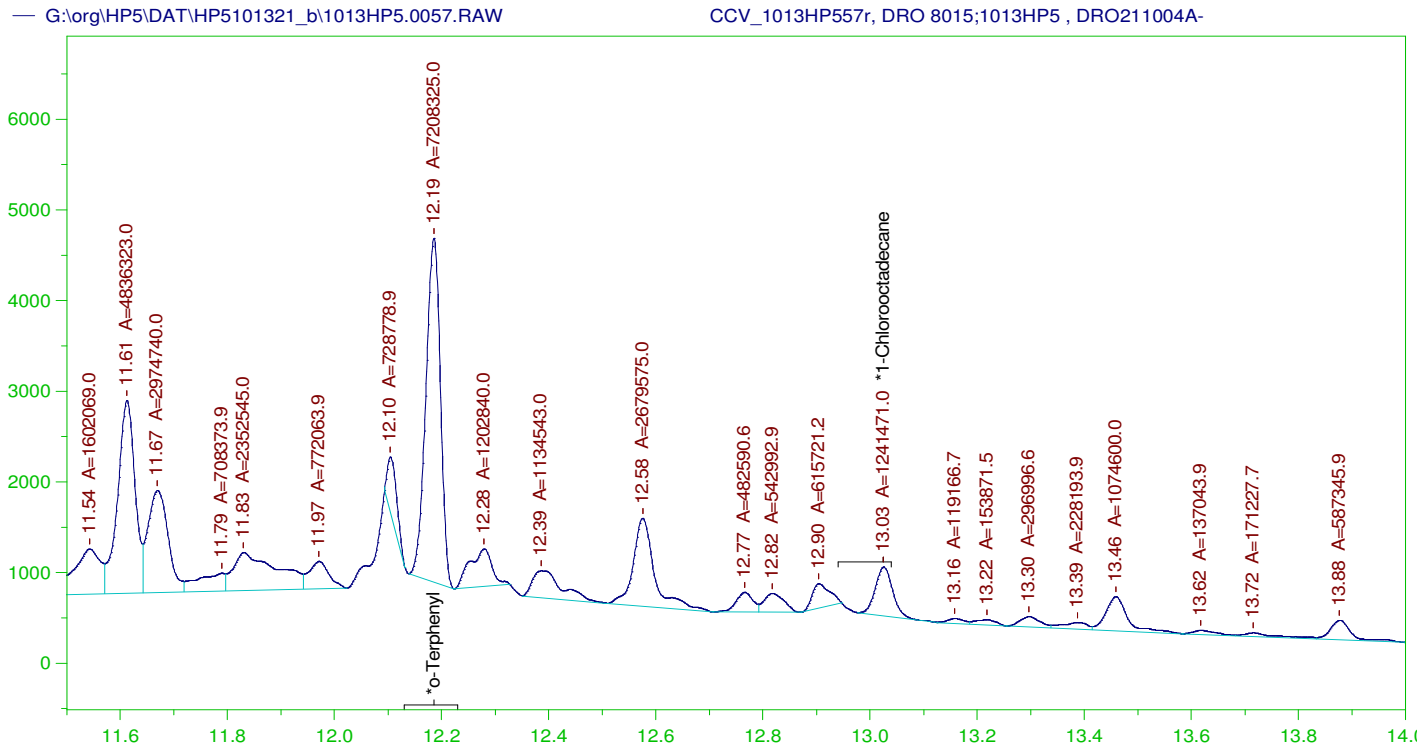
DRO Area:4.380289E+08 DRO Amount: 14869.94
TEH Area:4.53984E+08 TEH Amount: 15411.58

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15411.58 | 102.74 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 330.171 | 165.09 | 85-115 |
| *1-Chlorooctadecane | 13.025 | 200. | 151.391 | 75.7 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\057_CCV_1013HP557r_DC_8015-24-HSa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A-
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW
Date & Time Acquired: 10/15/2021 6:07:16 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 205.534 | 102.77 | - |
| *1-Chlorooctadecane | 13.025 | 200. | 35.399 | 17.7 | - |

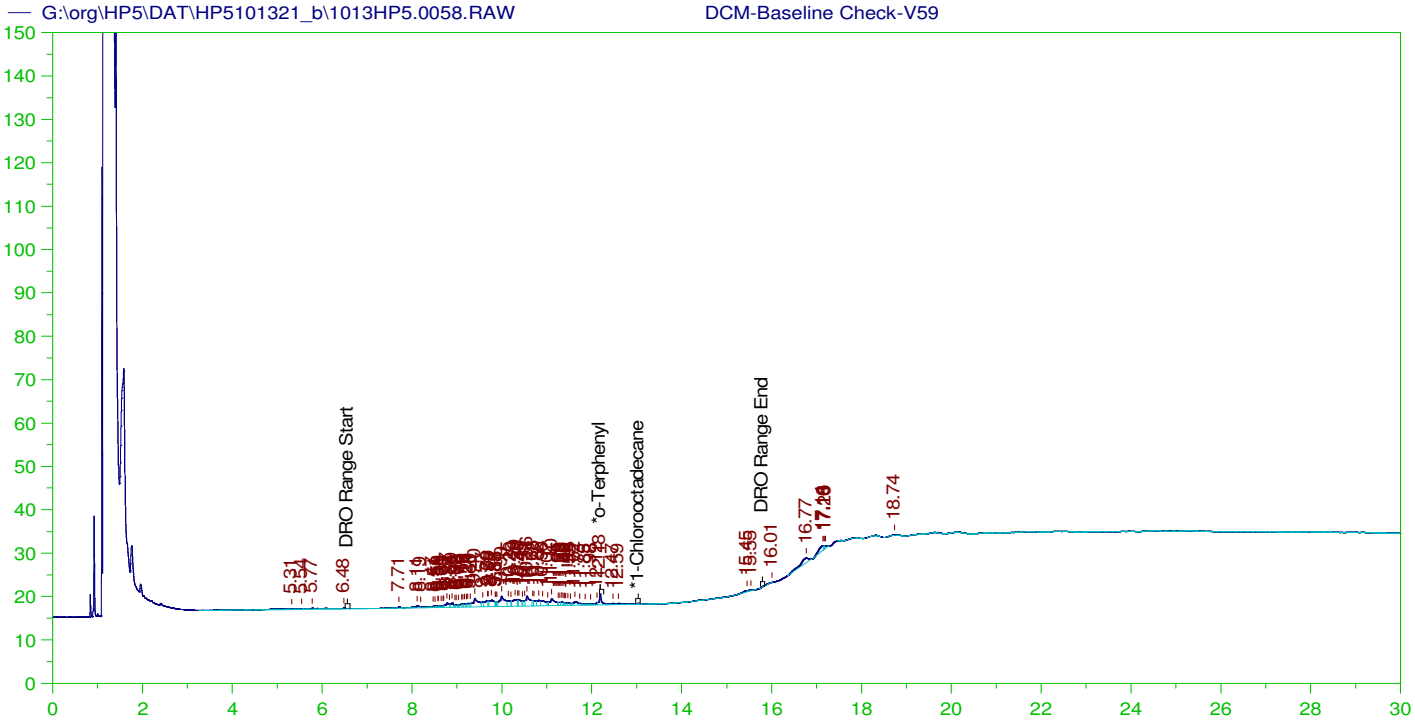
DRO Area:2.444846E+08 DRO Amount: 8299.618
TEH Area:2.54436E+08 TEH Amount: 8637.443

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0057.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8637.44 | 57.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | 200. | 205.534 | 102.77 | 85-115 |
| *1-Chlorooctadecane | 13.025 | 200. | 35.399 | 17.7 | 85-115 |

G:\org\HP5\dat\HP5101321_b\Review\057_CCV_1013HP557r_DS_8015-area-HSA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V59
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0058.RAW
Date & Time Acquired: 10/15/2021 6:50:06 AM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

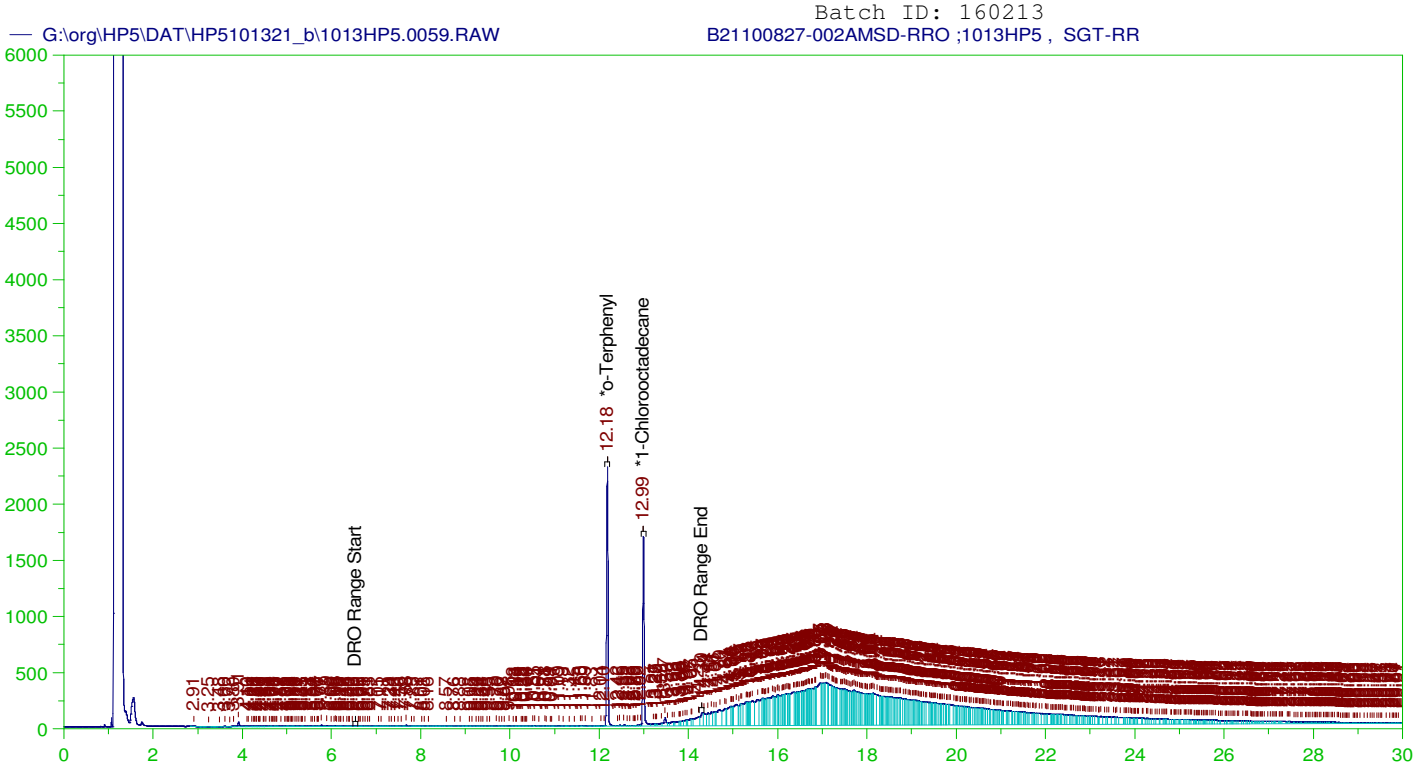
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.183 | 200. | .277 | .14 | - |
| *1-Chlorooctadecane | 29.994 | 200. | . | . | - |

DRO Area:224378.9 DRO Amount: 7.61708
TEH Area:290379.5 TEH Amount: 9.857631

G:\org\HP5\dat\HP5101321_b\Review\058_DCM-Baseline Chec_DR_8015-HS-LEXP.xls

Batch ID: 160213




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21100827-002AMSD-RRO ;1013HP5 , SGT-RR
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0059.RAW
Date & Time Acquired: 10/15/2021 7:39:38 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .25 | 64.35 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .216 | 55.58 | - |

DRO Area:3599159 DRO Amount: 0.2448517
TEH (Oil Range) Area:1.184108E+08 TEH (Oil Range) Amount: 8.055515

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G:\org\HP5\dat\HP5101321_b\Review\059_B21100827-002AMSD-RRO_D3_OIL-AJA-L%.xls

Batch ID: 160213

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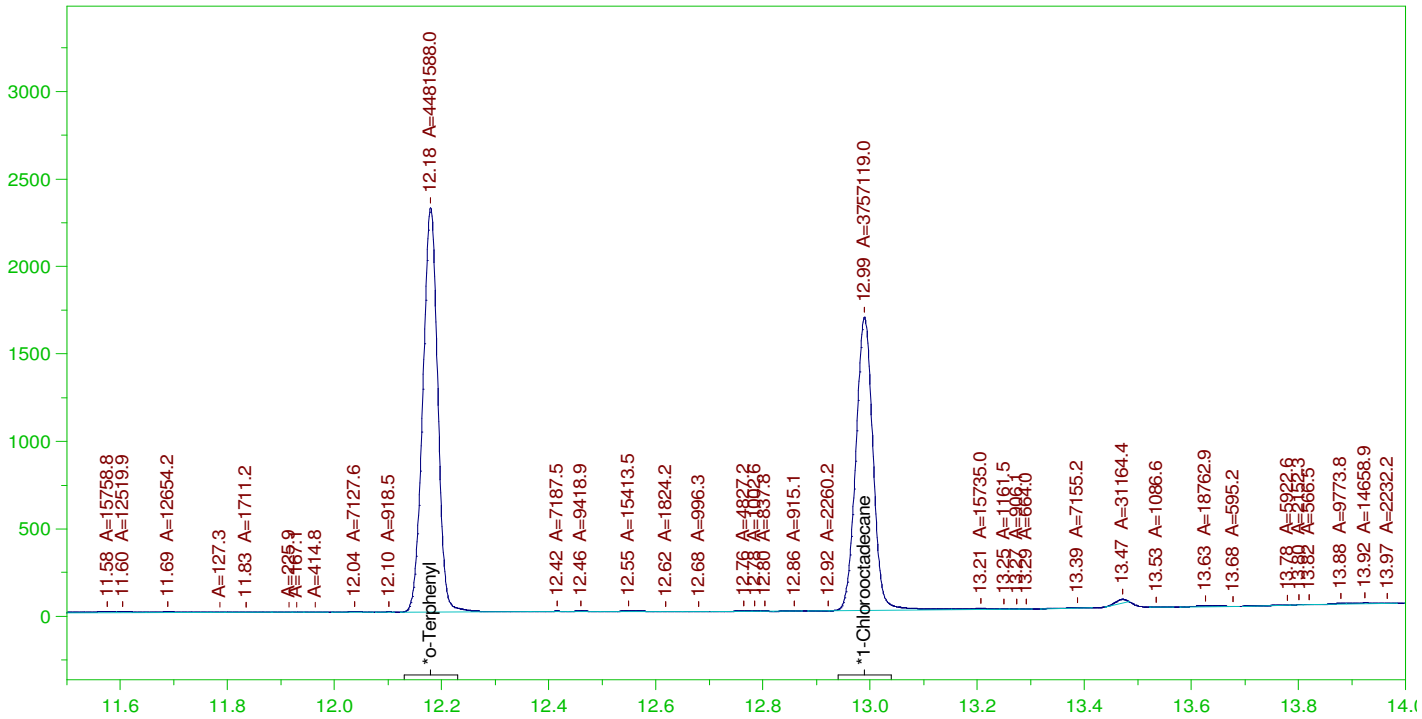



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

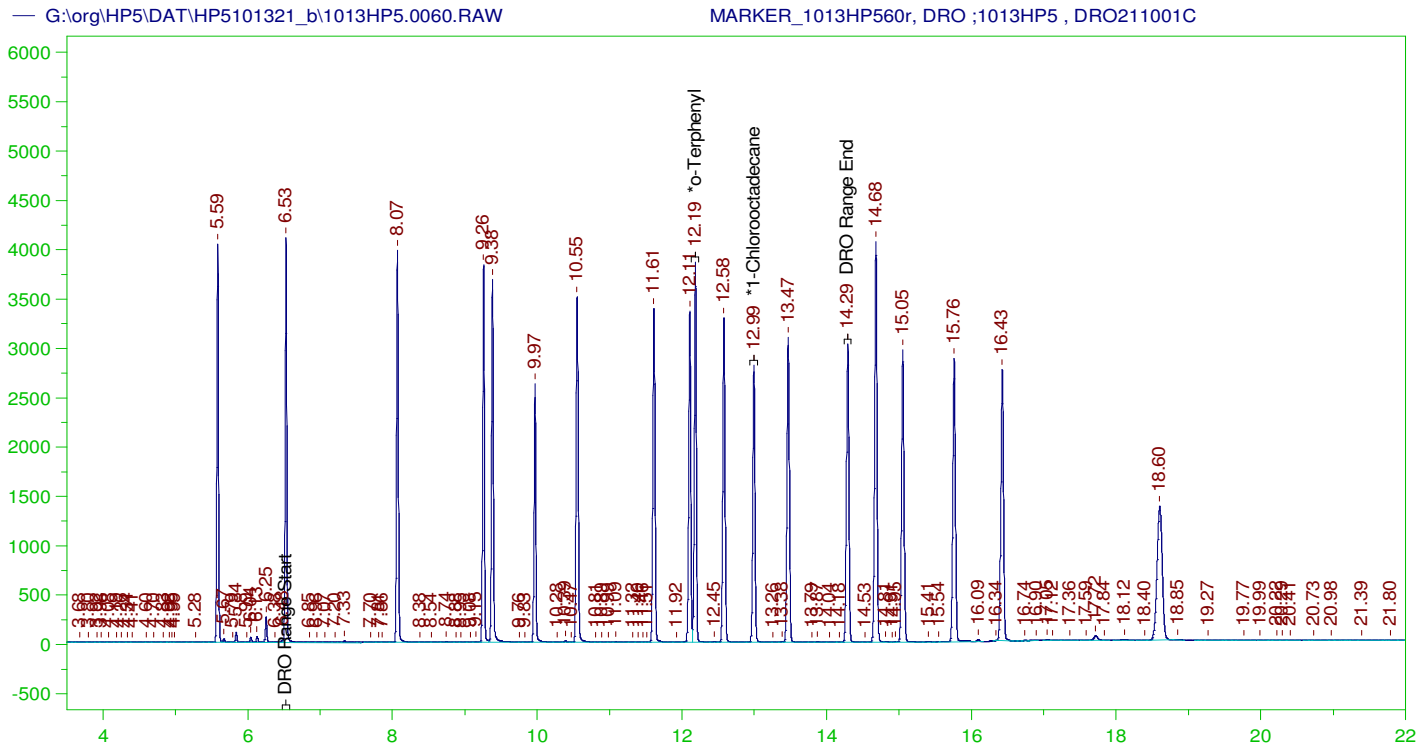
Sample Name: B21100827-002AMSD-RRO ;1013HP5 , SGT-RR
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0059.RAW
Date & Time Acquired: 10/15/2021 7:39:38 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 515 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.179 | .388 | .248 | 63.89 | - |
| *1-Chlorooctadecane | 12.989 | .388 | .208 | 53.56 | - |

DRO Area:603208.6 DRO Amount: 4.103643E-02
TEH Area:2187615 TEH Amount: 0.148824

G:\org\HP5\dat\HP5101321_b\Review\059_B21100827-002AMSD-RRO_DS_OIL-AJA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

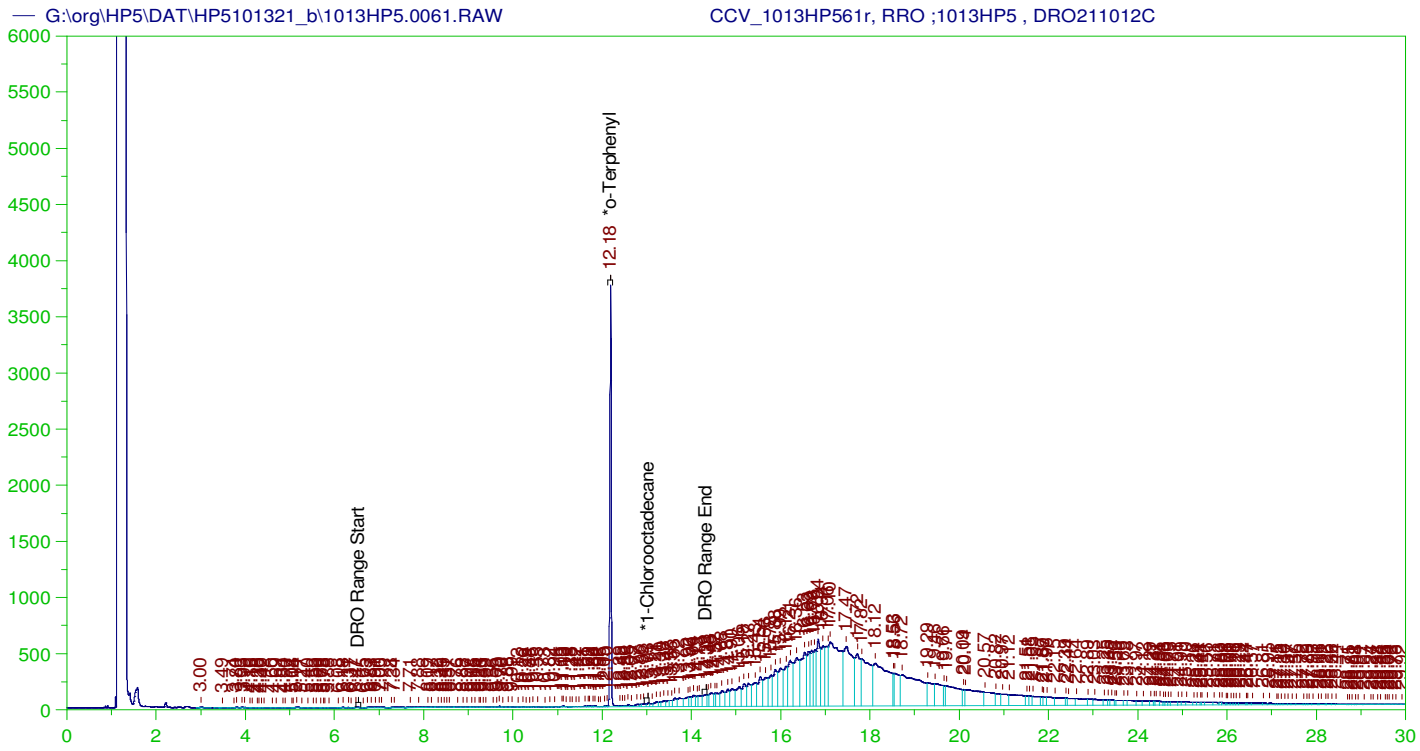
Sample Name: MARKER_1013HP560r, DRO ;1013HP5 , DRO211001C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0060.RAW
Date & Time Acquired: 10/15/2021 8:22:35 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HSa-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.185 | .2 | .213 | 106.66 | - |
| *1-Chlorooctadecane | 12.994 | .2 | .173 | 86.32 | - |

DRO Area:7.335226E+07 DRO Amount: 2.490119
TEH Area:1.193338E+08 TEH Amount: 4.051072

G:\org\HP5\dat\HP5101321_b\Review\060_MARKER_1013HP560r_DC_8015-24-HSa-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP561r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW
Date & Time Acquired: 10/15/2021 9:05:31 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AJA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AJA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 211.955 | 105.98 | - |
| *1-Chlorooctadecane | 13.03 | 200. | 4.09 | 2.04 | - |

DRO Area:6599021 DRO Amount: 231.2005
TEH (Oil Range) Area:1.351175E+08 TEH (Oil Range) Amount: 4733.919

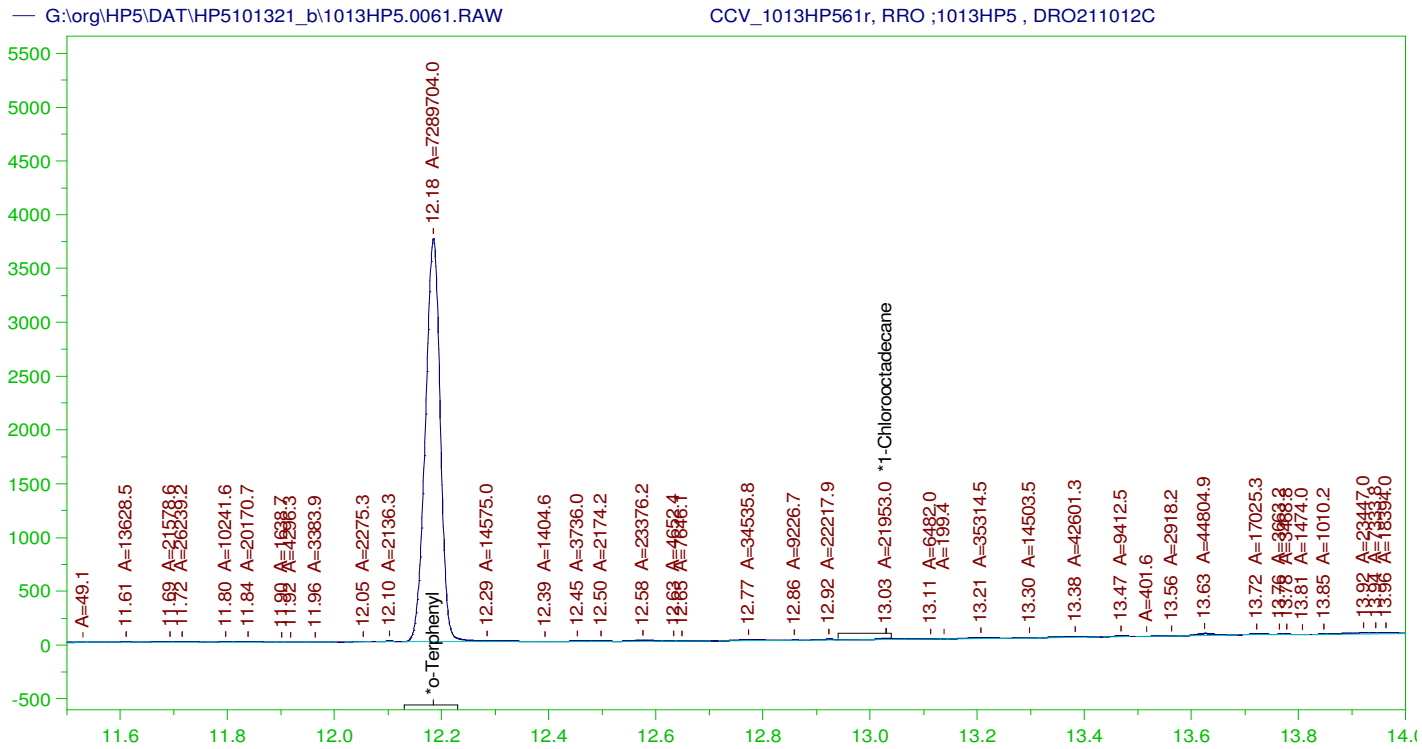
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4733.92 | 94.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 211.955 | 105.98 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | 4.09 | 2.04 | 85-115 |

AMN 10/21/2021

G:\org\HP5\dat\HP5101321_b\Review\061_CCV_1013HP561r_DC_OIL-AJA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1013HP561r, RRO ;1013HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW
Date & Time Acquired: 10/15/2021 9:05:31 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AJA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AjA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.48 to 14.34

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 207.854 | 103.93 | - |
| *1-Chlorooctadecane | 13.03 | 200. | .626 | .31 | - |

DRO Area:858181.1 DRO Amount: 30.06687
TEH Area:2203351 TEH Amount: 77.19567

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101321_b\1013HP5.0061.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 77.2 | 1.54 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.184 | 200. | 207.854 | 103.93 | 85-115 |
| *1-Chlorooctadecane | 13.03 | 200. | .626 | .31 | 85-115 |

Write Sequence

Insert Entries|Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101321_b\1013HP5.01r | MARKER_1013HP01r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.02r | MARKER_1013HP502r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.03r | CCV_1013HP503r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.04r | CCV_1013HP540r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.06r | B21100828-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-101306-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-101306-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Set Baseline now at 22.46.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.07r | B21100828-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.08r | B21100834-001A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1010 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.09r | DCM-Baseline Check-V09 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.10r | B21100834-002A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.11r | DCM-Baseline Check-V11 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.12r | B21100834-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.15r | B21100827-003A ;1013HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.16r | DCM-Baseline Check-V16 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.17r | MARKER_1013HP17r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.18r | MARKER_1013HP518r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.19r | CCV_1013HP519r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.20r | CCV_1013HP520r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.21r | DCM-Baseline Check-V21 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.22r | LCS-RRO-160213 ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.24r | B21100827-002AMS-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.25r | DCM-Baseline Check-V25 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.26r | B21100827-002AMSD-RRO ;1013HP5 , | G:\Org\HP5\Methods\D3_OIL-AJ-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.28r | B21100827-001AMS ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101328-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.10.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.30r | B21100827-001AMSD ;1013HP5 , | G:\Org\HP5\Methods\D3_8015-101330-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted and split placed at 13.10.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.32r | MARKER_1013HP32r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211011.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.33r | MARKER_1013HP533r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-HS-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.34r | CCV_1013HP534r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJ-L%.met<br>G:\Org\HP5\Methods\DS_OIL-area-AJ-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101321_b\1013HP5.35r | CCV_1013HP535r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-C24-HS-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HS-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.36r | DCM-Baseline Check-V36 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.37r | DCM-Baseline Check-V37 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.38r | MARKER_1013HP38r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.39r | MARKER_1013HP539r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.40r | CCV_1013HP540r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.41r | CCV_1013HP541r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.42r | DCM-Baseline Check-V42 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.43r | LCS-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.44r | MB-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.45r | B21100827-002A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.46r | B21100827-001A ;1013HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AJa-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1045 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.47r | B21100827-001AMS ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.48r | B21100827-001AMSD ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.49r | B21100827-002AMS-RRO ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.50r | DCM-Baseline Check-V50 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.51r | B21100827-002AMSD-RRO ;1013HP5 , SGT-NEEDS RR Instrument misinjection | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 515 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.52r | DCM-Baseline Check-V52 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.53r | LCS-RRO-160213 ;1013HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.54r | MARKER_1013HP54r, DRO C40 ;1013HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211013.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.55r | MARKER_1013HP555r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.56r | CCV_1013HP556r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.57r | CCV_1013HP557r, DRO 8015;1013HP5 , DRO211004A- | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HSA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.14 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.58r | DCM-Baseline Check-V58 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.59r | B21100827-002AMSD-RRO ;1013HP5 , SGT-RR | G:\Org\HP5\Methods\D3_OIL-AJA-L%.MET<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 515 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.60r | MARKER_1013HP560r, DRO ;1013HP5 , DRO211001C | G:\Org\HP5\Methods\DC_8015-24-HSa-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5101321_b\1013HP5.61r | CCV_1013HP561r, RRO ;1013HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AJA-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AJa-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.21 09:01:45 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*07-May-21*

**Run ID** GCFID-HP5-B_210108B

| | |
|---|---|
| **Run Start Date:** | 1/8/2021 |
| **Analyst:** | Ann Nebel |
| **Ical:** | |
| **Column ID:** | |
| **Comments:** | NEW ICAL<br>SW8015C_DRO210108HA.CAL |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CALS | 12/31/2021 |
| DRO201210A | #2 Diesel in Acetone 150,000 ug/mL | | | | | SECOND S | 6/10/2021 |
| DRO210105B | EPH (4) SURR-1000 ug/mL ea. in Hexane | | | | | SURRS | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154799 | CCV_0108HP51 | HC-8015-DRO- | CAL1 | | 1/8/2021 2:21:25 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1350772 | | 0.15 | 0 | 0 | 0.0499 | 0.3 | 50 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154800 | CCV_0108HP51 | HC-8015-DRO- | CAL2 | | 1/8/2021 3:03:30 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.865478 | | 3.75 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154801 | CCV_0108HP51 | HC-8015-DRO- | CAL3 | | 1/8/2021 3:45:32 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.3786 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154802 | CCV_0108HP51 | HC-8015-DRO- | CAL4 | | 1/8/2021 4:27:38 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 39.10215 | | 37.5 | 0 | 0 | 0.0499 | 0.3 | 50 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154803 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 5:09:49 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 50.03634 | | 50 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154804 | CCV_0108HP50 | HC-8015-DRO- | CAL1 | | 1/8/2021 5:52:15 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00201784 | | 0.002 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154805 | CCV_0108HP50 | HC-8015-DRO- | CAL2 | | 1/8/2021 6:34:45 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04980491 | | 0.05 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154806 | CCV_0108HP50 | HC-8015-DRO- | CAL3 | | 1/8/2021 7:17:18 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2027571 | | 0.2 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154807 | CCV_0108HP50 | HC-8015-DRO- | CAL4 | | 1/8/2021 7:59:52 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.4989882 | | 0.5 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154808 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 8:42:33 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.9852039 | | 1 | 0 | 0 | 0.000327 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154809 | CCV_0108HP51 | HC-8015-DRO- | ICV | | 1/8/2021 9:25:08 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 14.94195 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Version: 6

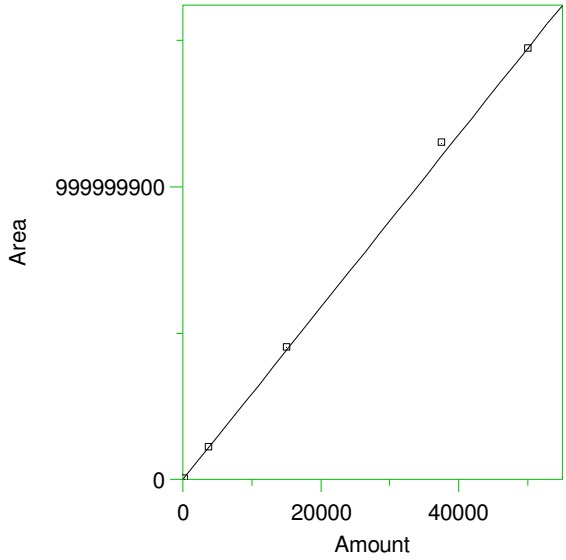
Creator: AMN 1/11/2021
Description: DRO-8015C. New ICal Per 0108HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.82 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

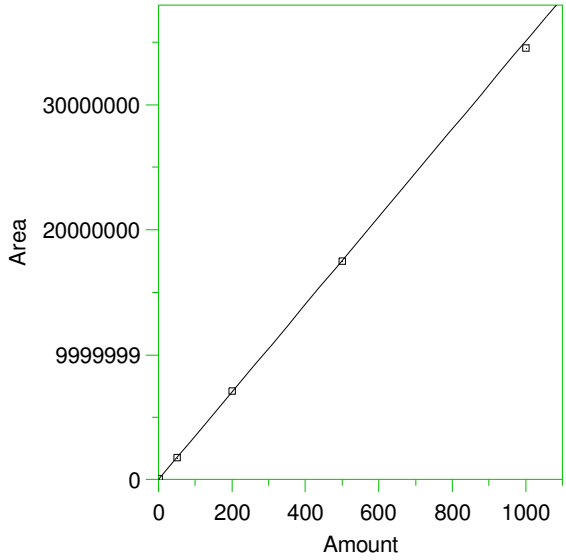
Y = 29457.33 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9985872 |
| Average error: | 3.979% |
| Average CF: | 29457.33 |
| RSD: | 5.768% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3979014 | 26526.76 | -9.949 | Manual | 1/11/2021 9:46:00 AM |
| 2 | 3750 | 1.138667E+08 | 30364.46 | 3.079 | Manual | 1/11/2021 9:46:09 AM |
| 3 | 15000 | 4.530125E+08 | 30200.83 | 2.524 | Manual | 1/11/2021 9:46:18 AM |
| 4 | 37500 | 1.151845E+09 | 30715.87 | 4.272 | Manual | 1/11/2021 9:46:27 AM |
| 5 | 50000 | 1.473937E+09 | 29478.74 | 0.073 | Manual | 1/11/2021 9:46:39 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.57 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

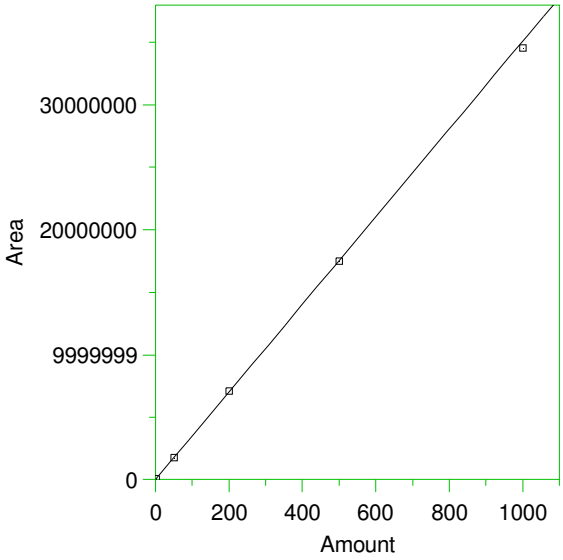
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.36 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

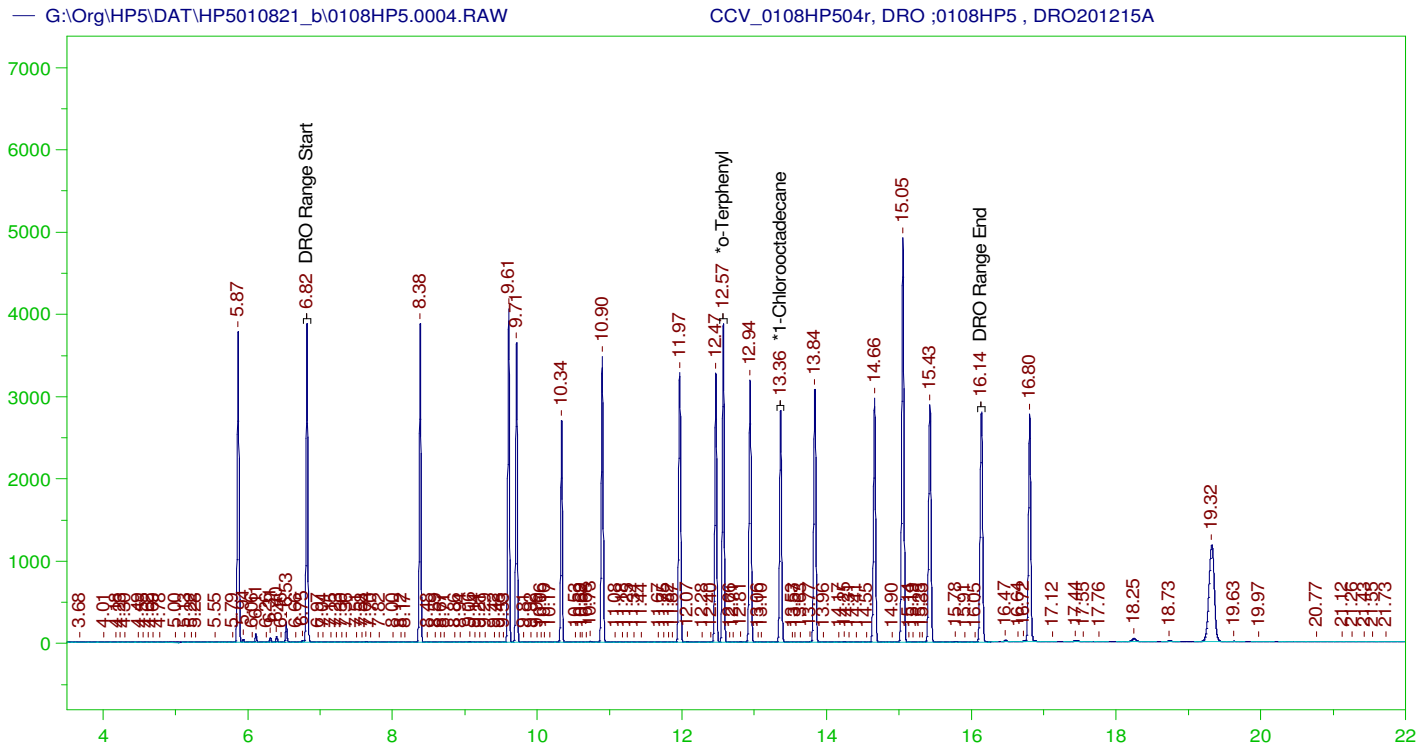
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP504r, DRO ;0108HP5 , DRO201215A
Raw File: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW
Date & Time Acquired: 1/8/2021 12:47:29 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | - |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | - |

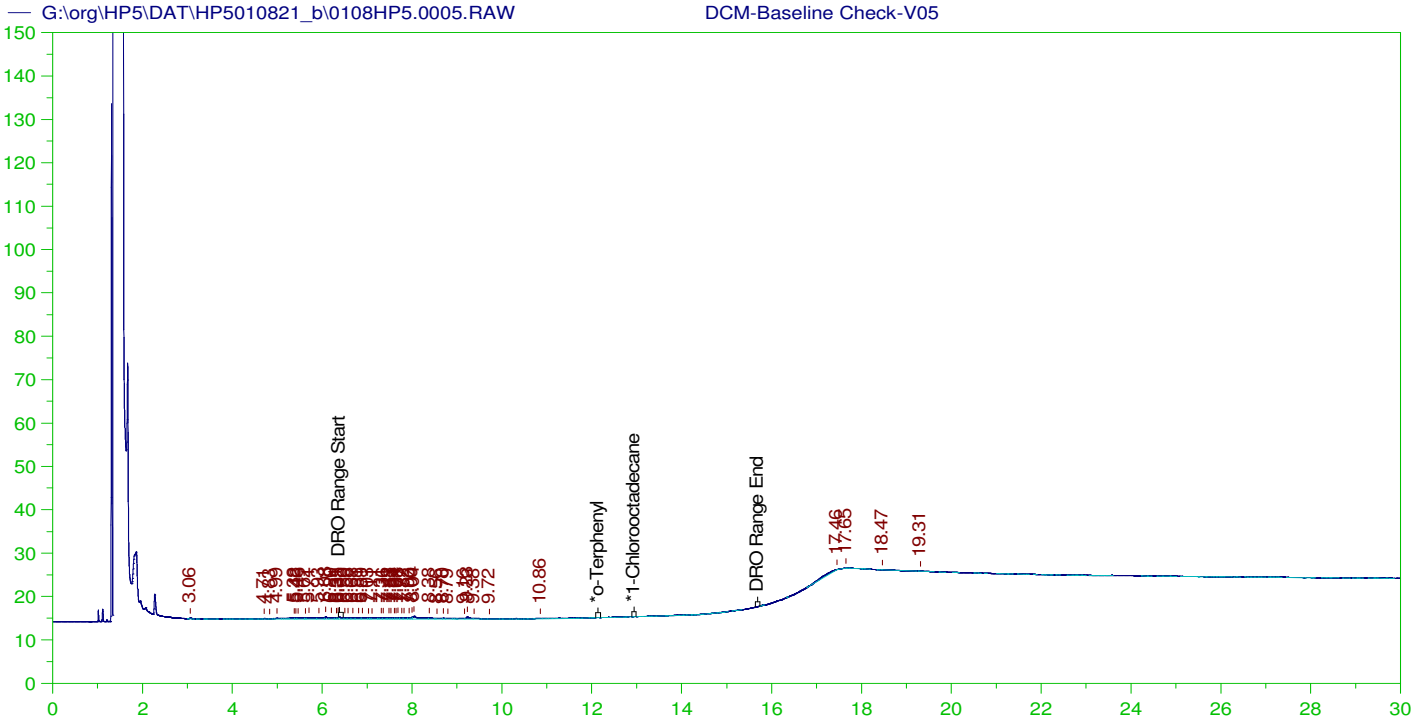
DRO Area:8.880706E+07 DRO Amount: 3014.77
TEH Area:1.082932E+08 TEH Amount: 3676.273

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3676.27 | 24.51 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | 85-115 |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\004_CCV_0108HP504r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

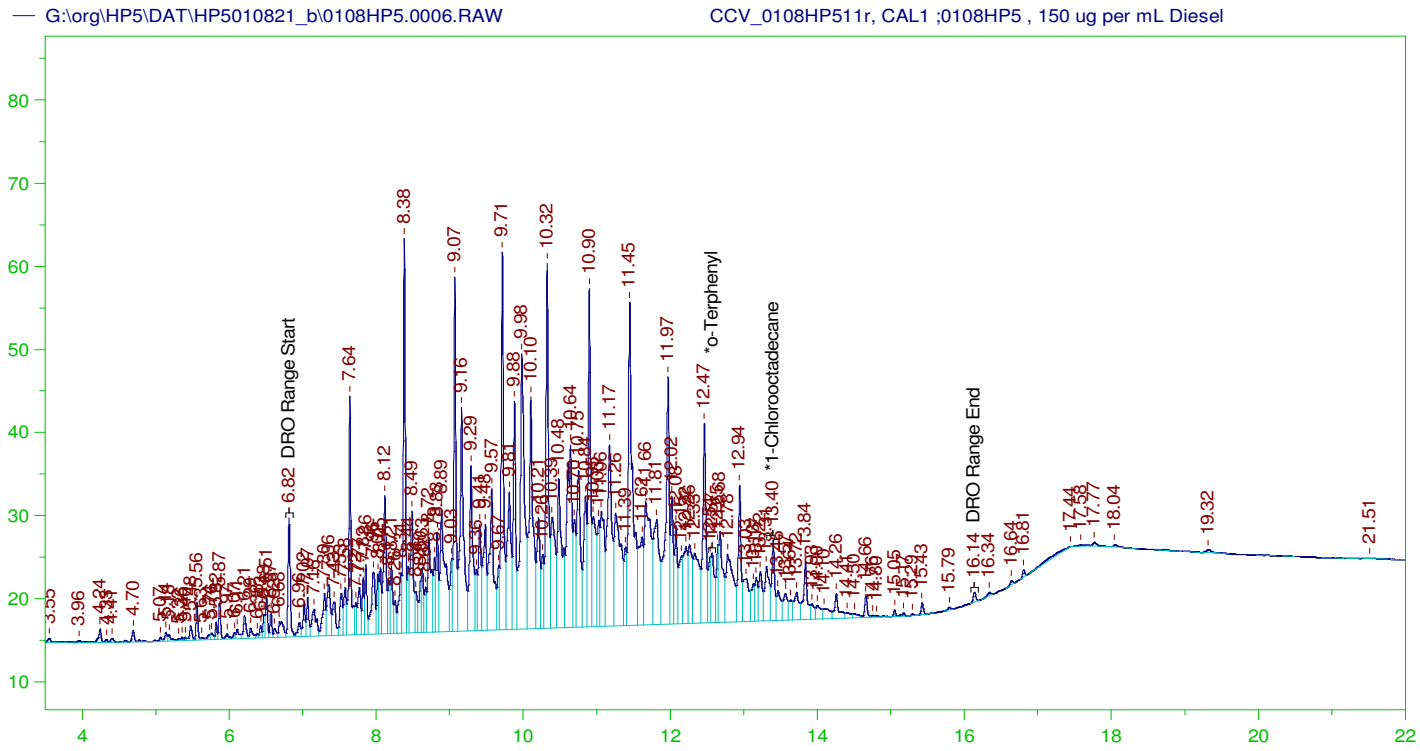
Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0005.RAW
Date & Time Acquired: 1/8/2021 1:29:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-GX-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO200123GX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28963.21
Rt range for Diesel Range Organics: 6.36 to 15.74

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.787 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.787 | 200. | . | . | - |

DRO Area:48911.73 DRO Amount: 1.688754
TEH Area:90991.55 TEH Amount: 3.141625

G:\org\HP5\dat\HP5010821_b\Review\005_DCM-Baseline Chec_DR_8015-GX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW
Date & Time Acquired: 1/8/2021 2:21:25 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | - |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | - |

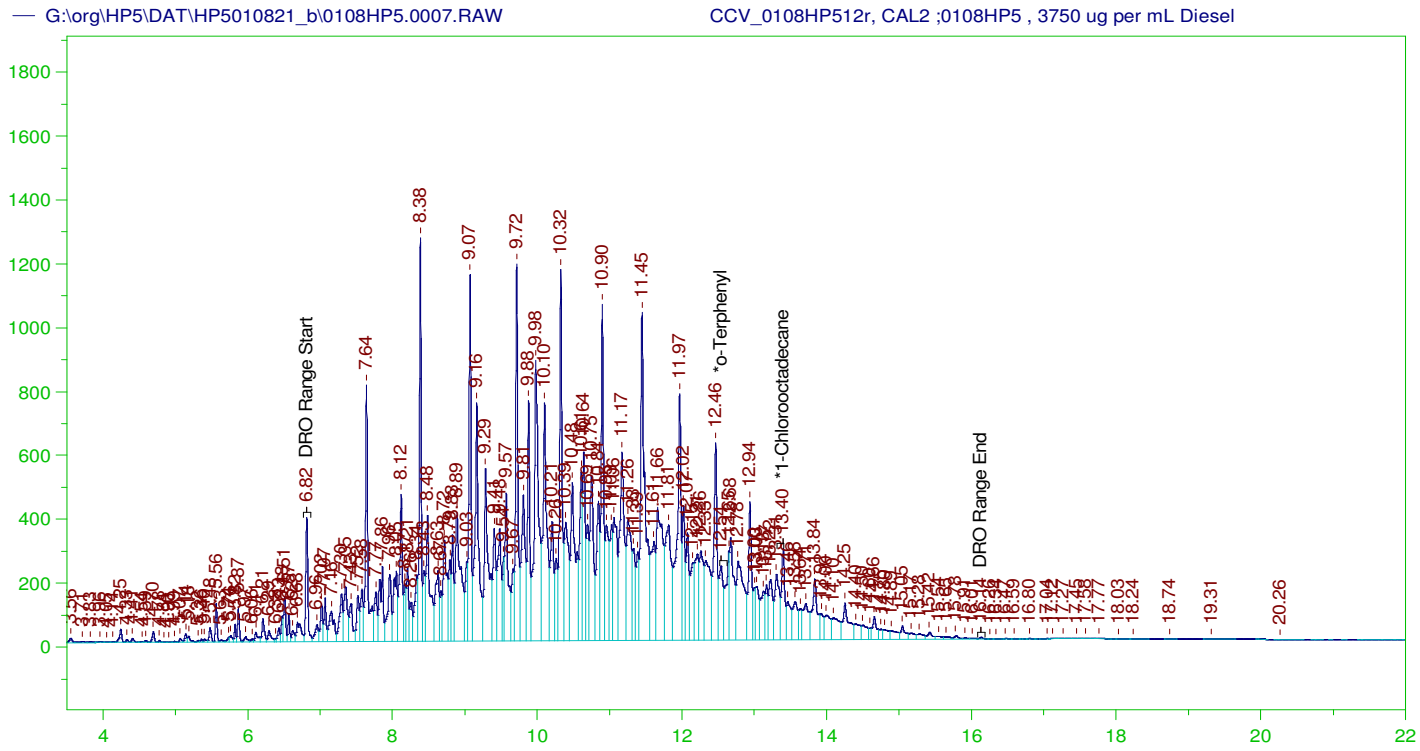
DRO Area:3854036 DRO Amount: 130.8345
TEH Area:3979014 TEH Amount: 135.0772

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 135.08 | .9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | 85-115 |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\006_CCV_0108HP511r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW
Date & Time Acquired: 1/8/2021 3:03:30 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | - |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | - |

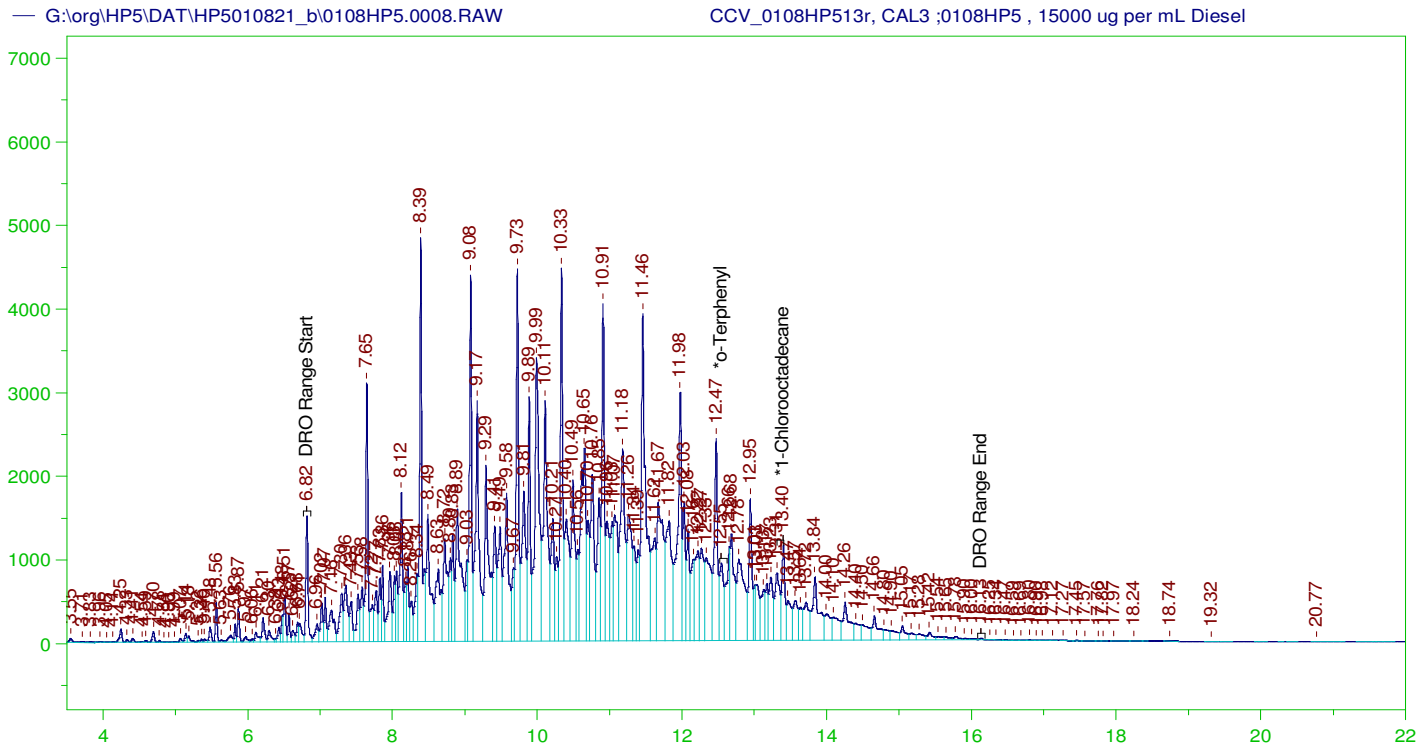
DRO Area:1.111179E+08 DRO Amount: 3772.164
TEH Area:1.138667E+08 TEH Amount: 3865.478

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3865.48 | 25.77 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | 85-115 |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\007_CCV_0108HP512r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW
Date & Time Acquired: 1/8/2021 3:45:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | - |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | - |

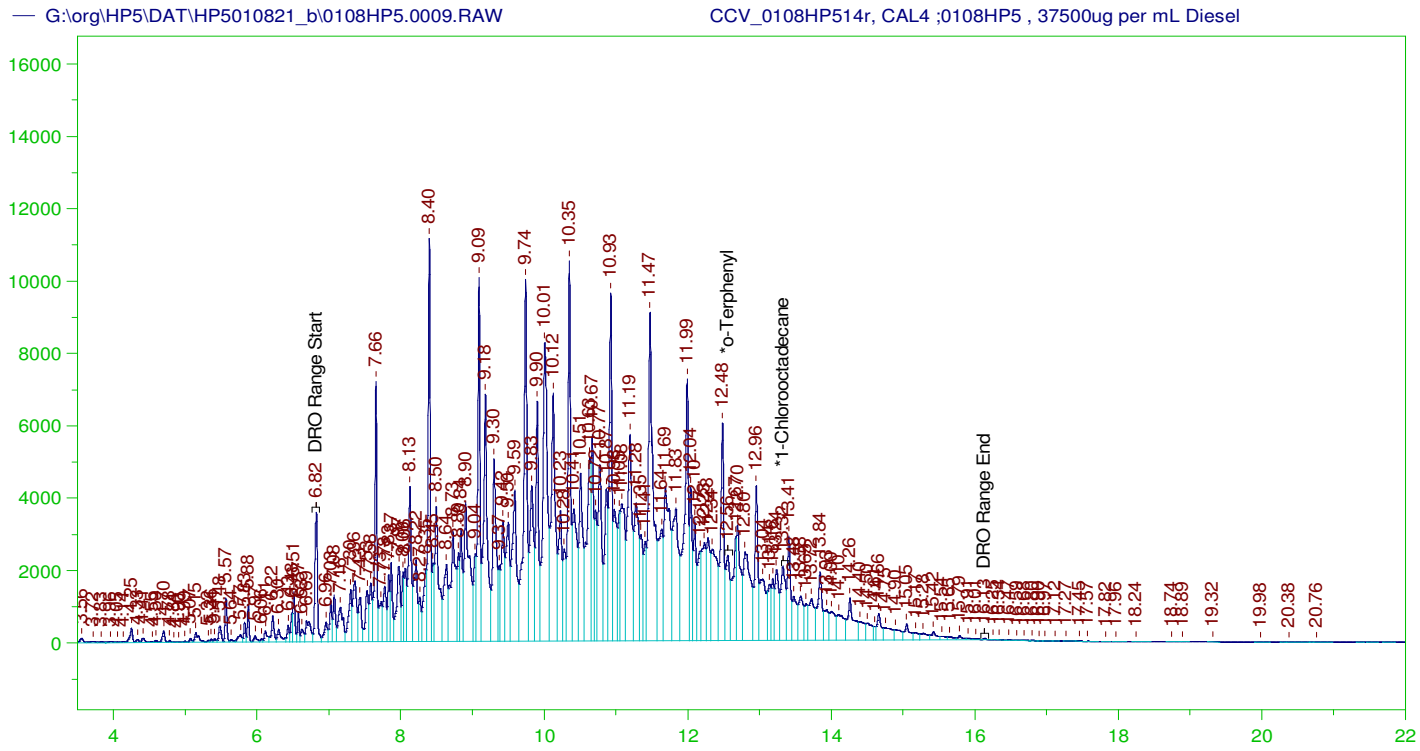
DRO Area:4.420163E+08 DRO Amount: 15005.31
TEH Area:4.530125E+08 TEH Amount: 15378.6

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15378.6 | 102.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | 85-115 |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\008_CCV_0108HP513r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW
Date & Time Acquired: 1/8/2021 4:27:38 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | - |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | - |

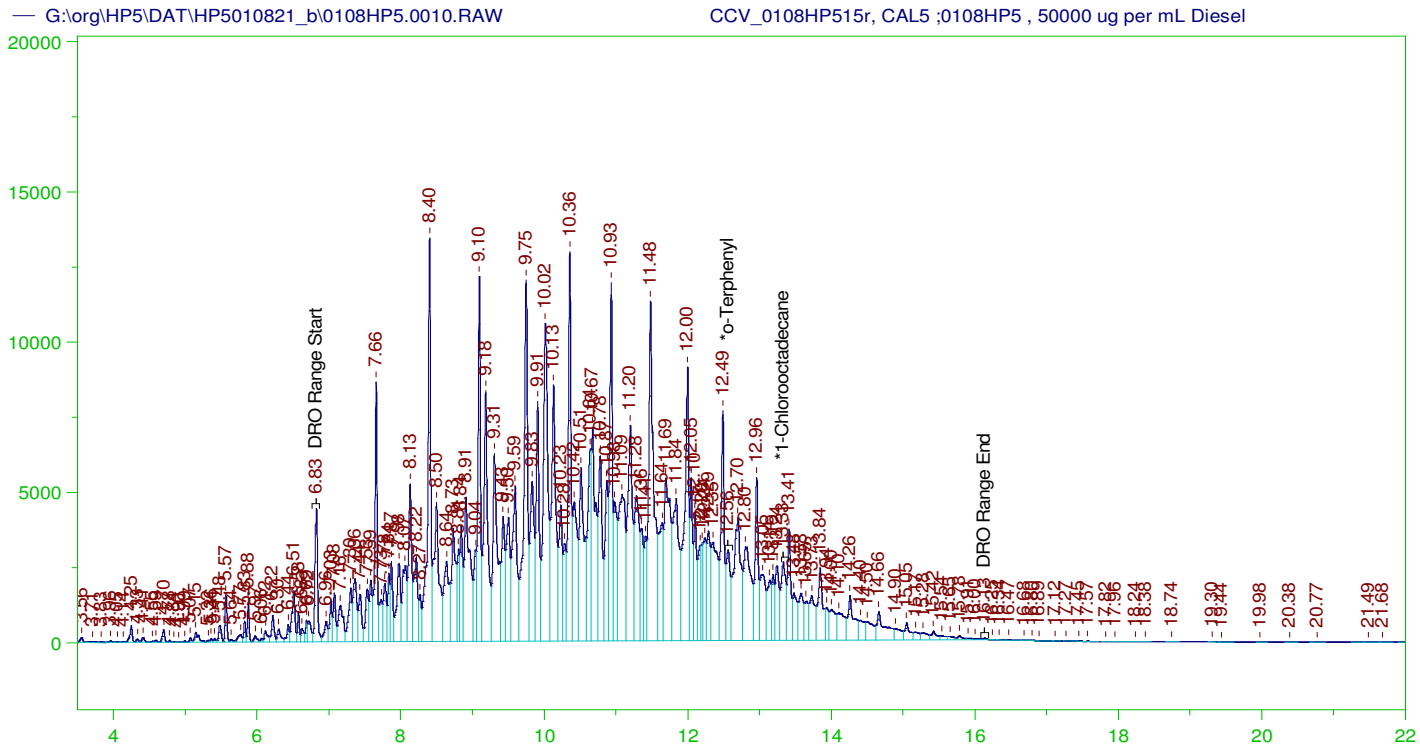
DRO Area:1.1239E+09 DRO Amount: 38153.5
TEH Area:1.151845E+09 TEH Amount: 39102.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39102.15 | 260.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | 85-115 |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\009_CCV_0108HP514r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW
Date & Time Acquired: 1/8/2021 5:09:49 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | - |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | - |

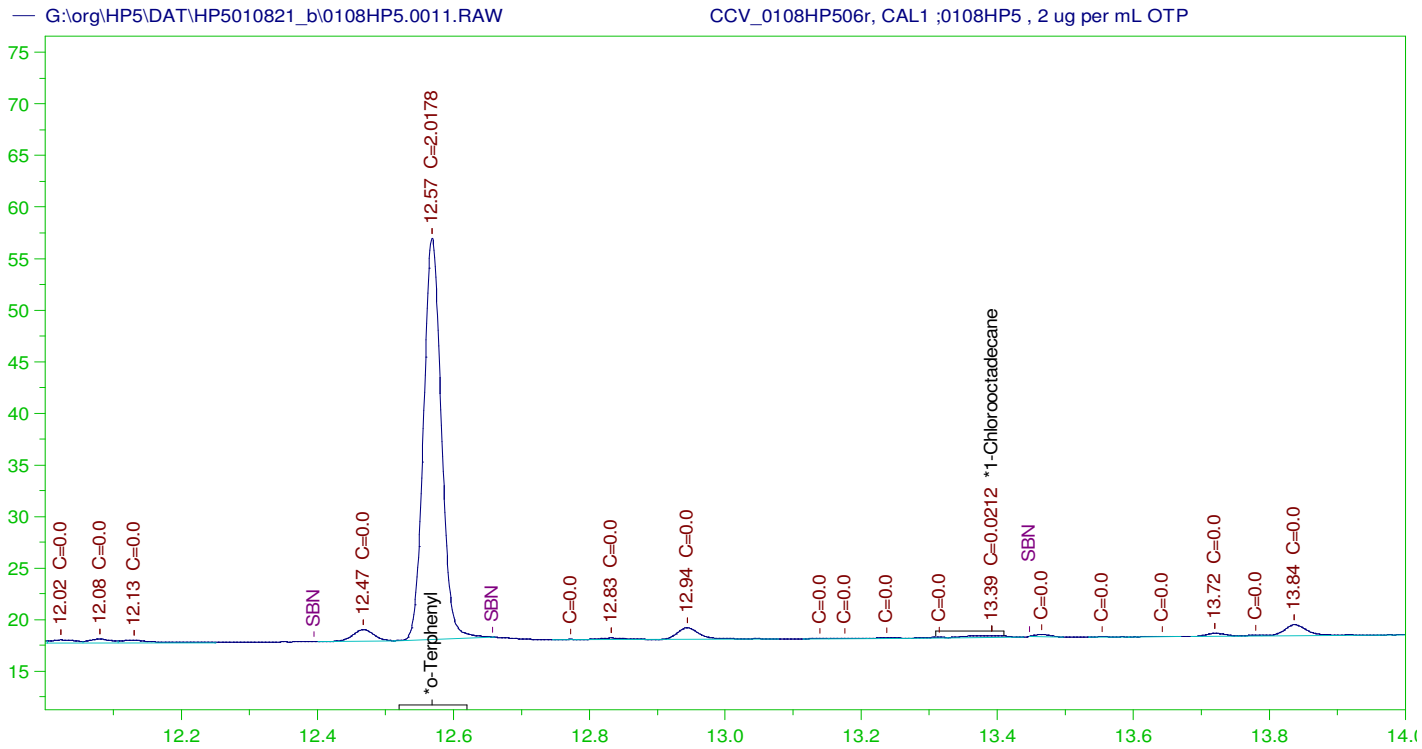
DRO Area:1.438162E+09 DRO Amount: 48821.87
TEH Area:1.473937E+09 TEH Amount: 50036.34

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 50036.34 | 333.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | 85-115 |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\010_CCV_0108HP515r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW
Date & Time Acquired: 1/8/2021 5:52:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | - |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | - |

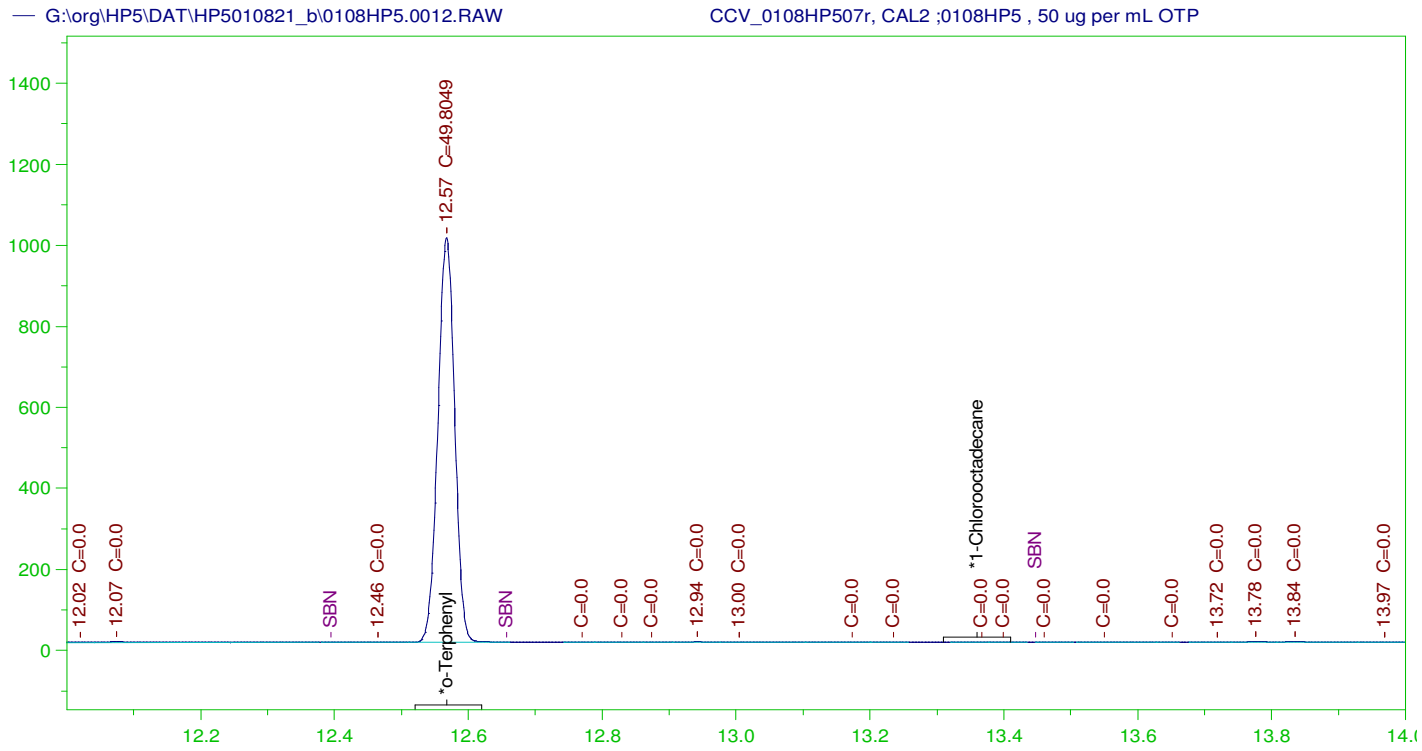
DRO Area:153898.5 DRO Amount: 5.224453
TEH Area:367701.2 TEH Amount: 12.4825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | 85-115 |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\011_CCV_0108HP506r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW
Date & Time Acquired: 1/8/2021 6:34:45 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | - |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | - |

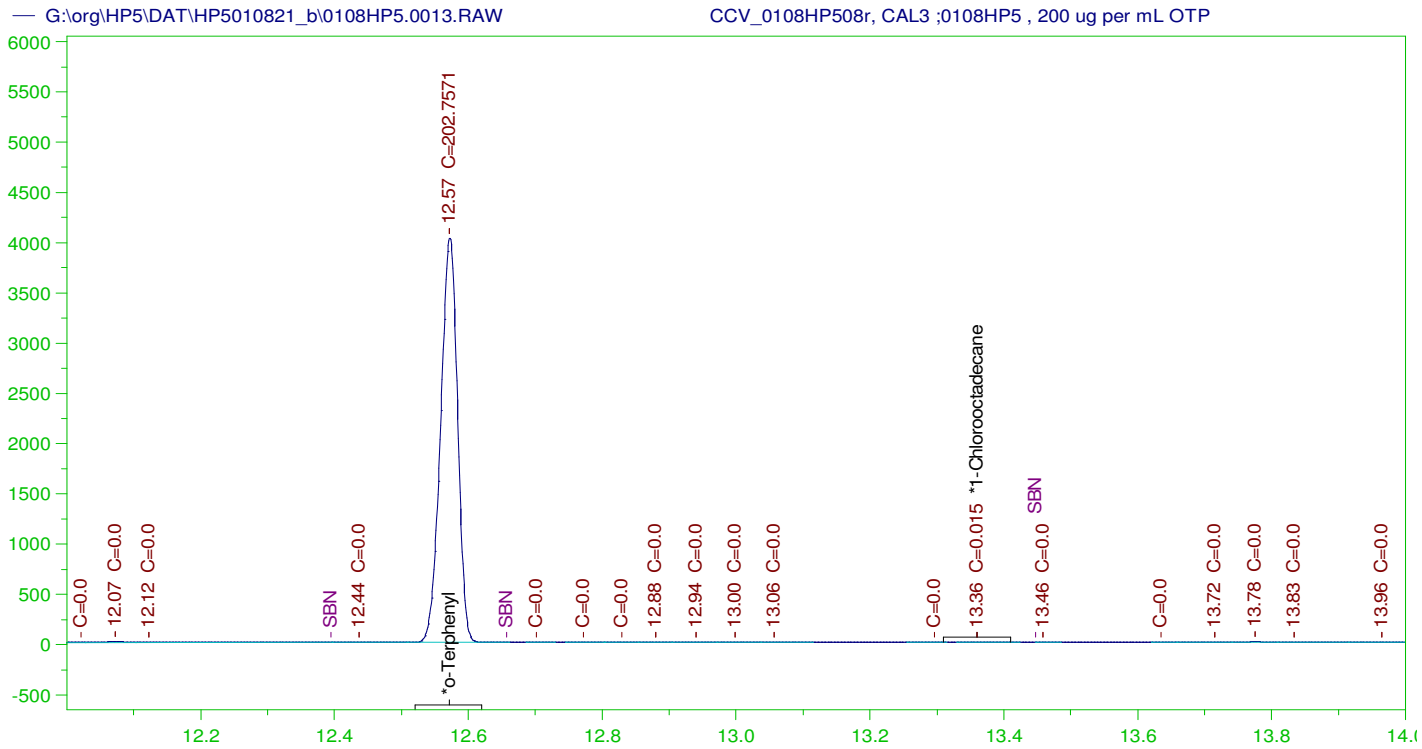
DRO Area:198540.3 DRO Amount: 6.739929
TEH Area:443484.3 TEH Amount: 15.05514

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | 85-115 |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\012_CCV_0108HP507r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW
Date & Time Acquired: 1/8/2021 7:17:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | - |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | - |

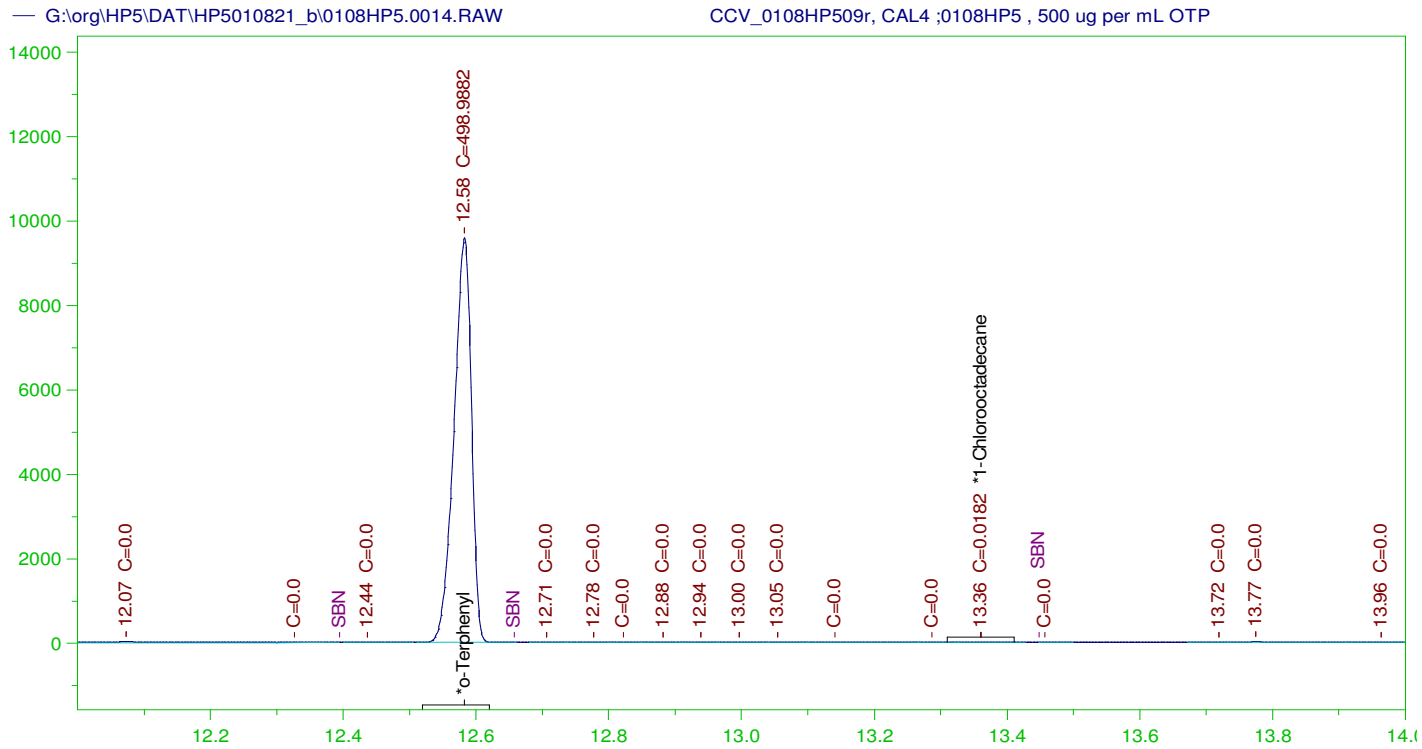
DRO Area:425468.4 DRO Amount: 14.44355
TEH Area:809202.7 TEH Amount: 27.47033

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 27.47 | .18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | 85-115 |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\013_CCV_0108HP508r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW
Date & Time Acquired: 1/8/2021 7:59:52 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | - |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | - |

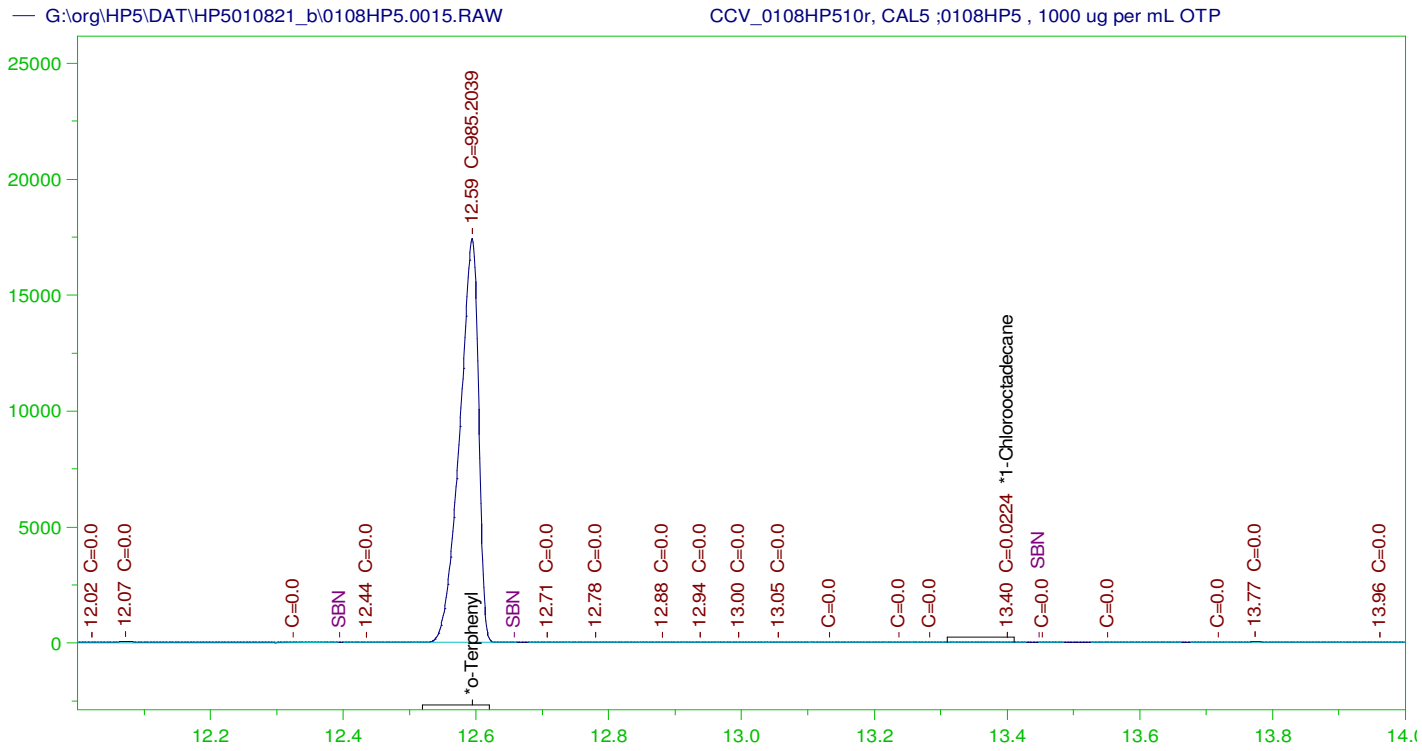
DRO Area:651862.6 DRO Amount: 22.12904
TEH Area:1164840 TEH Amount: 39.5433

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39.54 | .26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | 85-115 |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\014_CCV_0108HP509r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW
Date & Time Acquired: 1/8/2021 8:42:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | - |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | - |

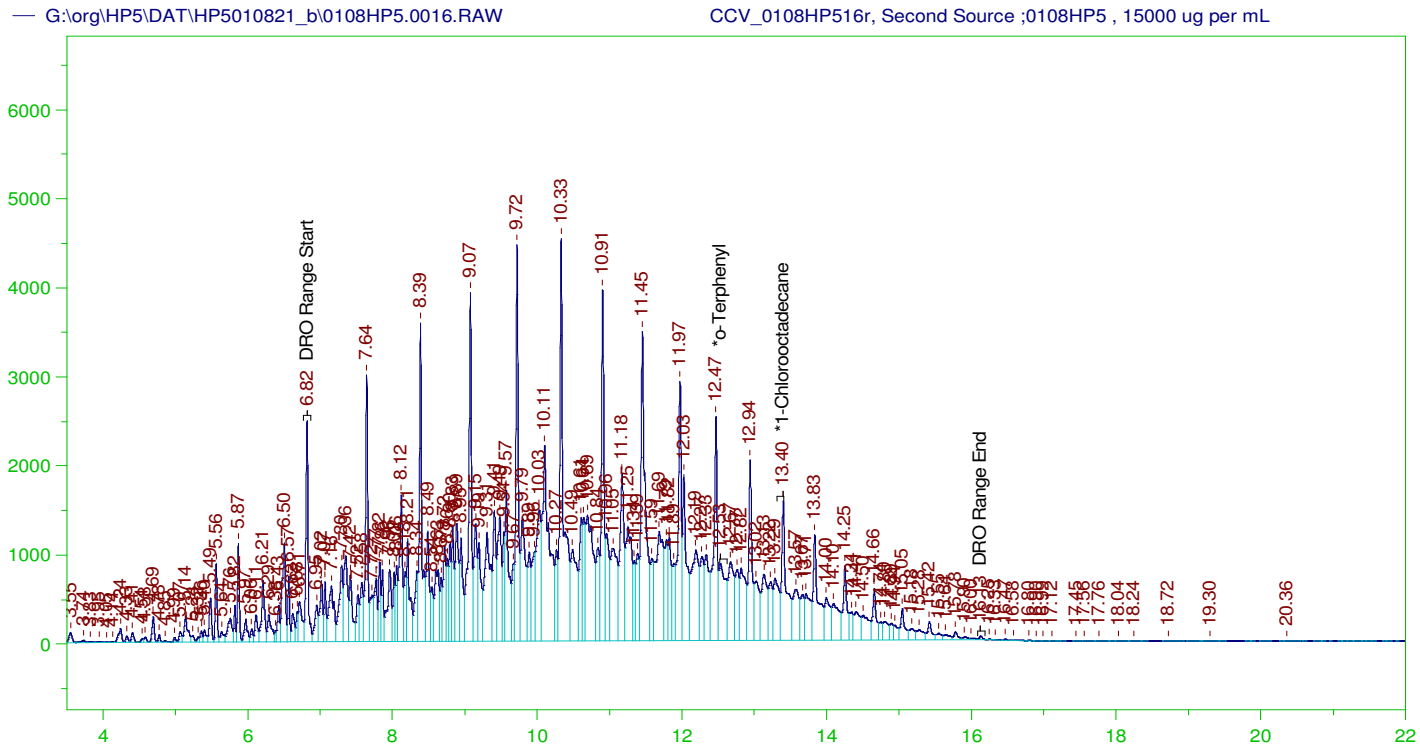
DRO Area:856596.9 DRO Amount: 29.07924
TEH Area:1371563 TEH Amount: 46.561

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 46.56 | .31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | 85-115 |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\015_CCV_0108HP510r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW
Date & Time Acquired: 1/8/2021 9:25:08 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | - |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | - |

DRO Area:4.138122E+08 DRO Amount: 14047.85
TEH Area:4.4015E+08 TEH Amount: 14941.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 14941.95 | 99.61 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | 85-115 |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\016_CCV_0108HP516r_DC_8015-HA-L%.xls

Write Sequence

Insert Entries(Have the first cell for entries selected)

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | Integration is valley to valley. Assigned Set Baseline All Valley on at 17.5. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.01.27 15:17:17 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Sep-21*

**Run ID** GCFID-HP5-B_210218B

**Run Start Date:** 2/18/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015 OIL range calibration
SW8015_OIL210218

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL | 8/31/2025 |
| DRO210204A | Carbon Scan STD | | | | | MARKER | 3/5/2028 |
| DRO210217A | 20,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | ICV | 8/23/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282665 | CCV_0218HP50 | HC-8015-DRO- | CAL1 | | 2/18/2021 12:03: | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1468323 | | 0.15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282666 | CCV_0218HP50 | HC-8015-DRO- | CAL2 | | 2/18/2021 1:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.062811 | | 1 | 0 | 0 | 0.15 | 0.3 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282667 | CCV_0218HP50 | HC-8015-DRO- | CAL3 | | 2/18/2021 2:51:0 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.035713 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282668 | CCV_0218HP50 | HC-8015-DRO- | CAL4 | | 2/18/2021 4:14:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.69295 | | 15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282669 | CCV_0218HP51 | HC-8015-DRO- | CAL5 | | 2/18/2021 5:38:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 28.20769 | | 30 | 0 | 0 | 0.15 | 0.3 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282670 | CCV_0218HP51 | HC-8015-DRO- | ICV | | 2/18/2021 8:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.474465 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 109% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Nam | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Version: 4

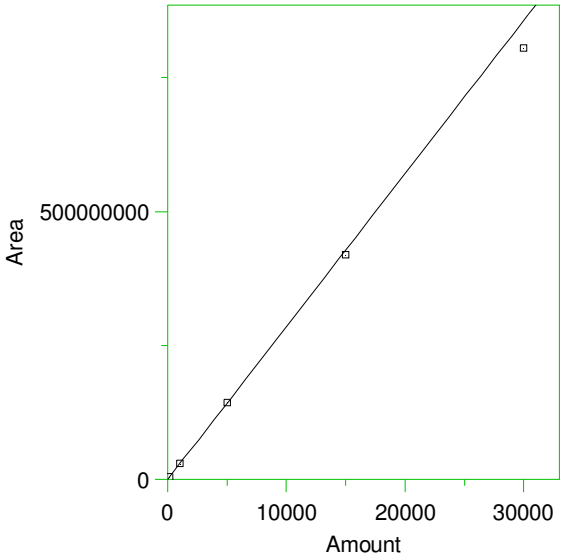
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




Expected retention time: 6.54 minutes
Search window: 0.05 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

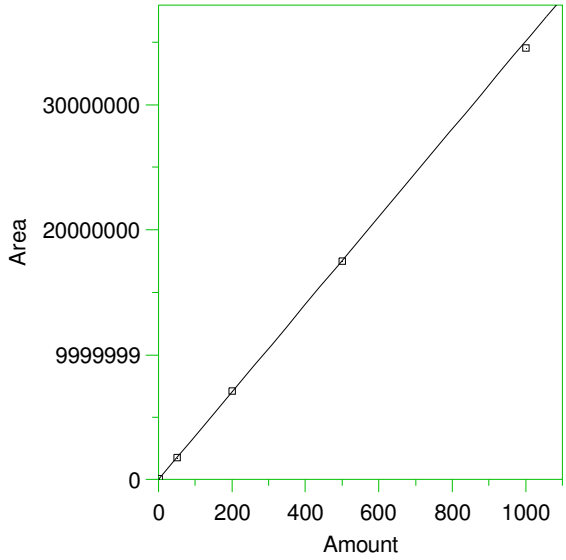
Single peak quantification by area

Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9940317
Average error: 3.209%
Average CF: 28542.41
RSD: 4.497%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 3/30/2021 11:50:57 AM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 3/30/2021 11:51:41 AM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 3/30/2021 11:52:00 AM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 3/30/2021 11:52:55 AM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 3/30/2021 11:52:32 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.14 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

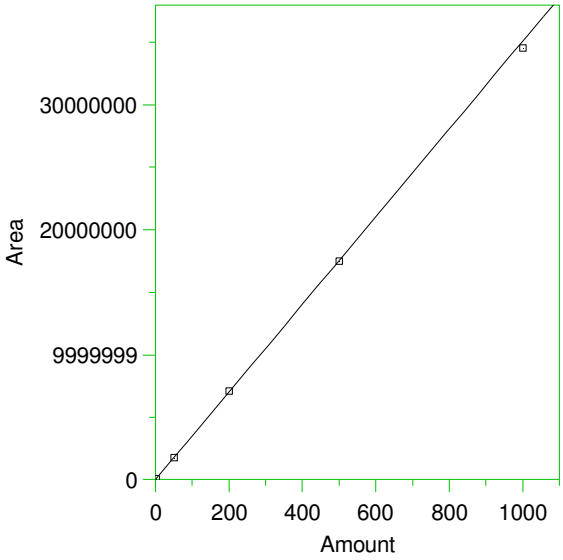
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.95 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

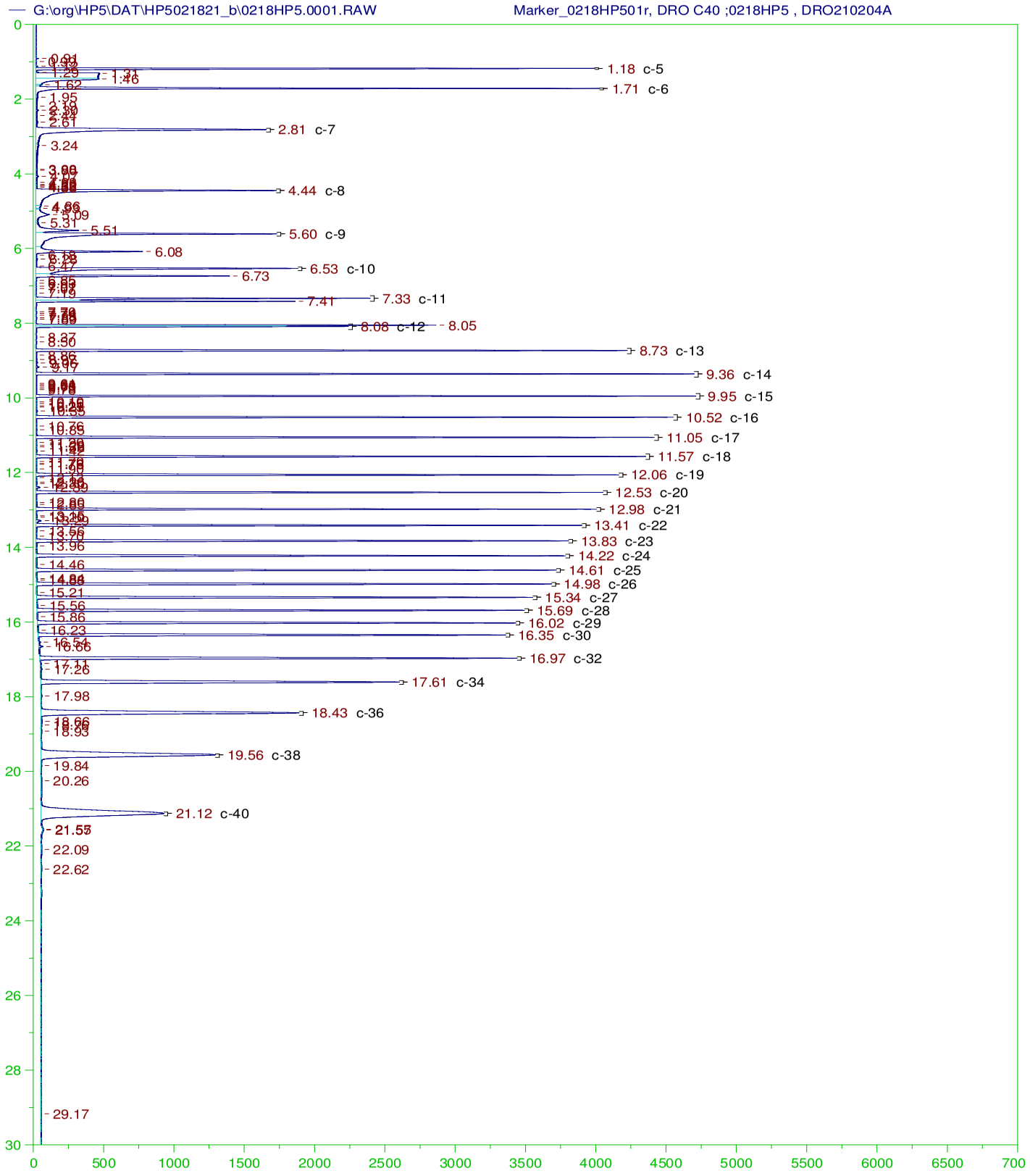
Single peak quantification by area

Y = 35071.26 X + 0

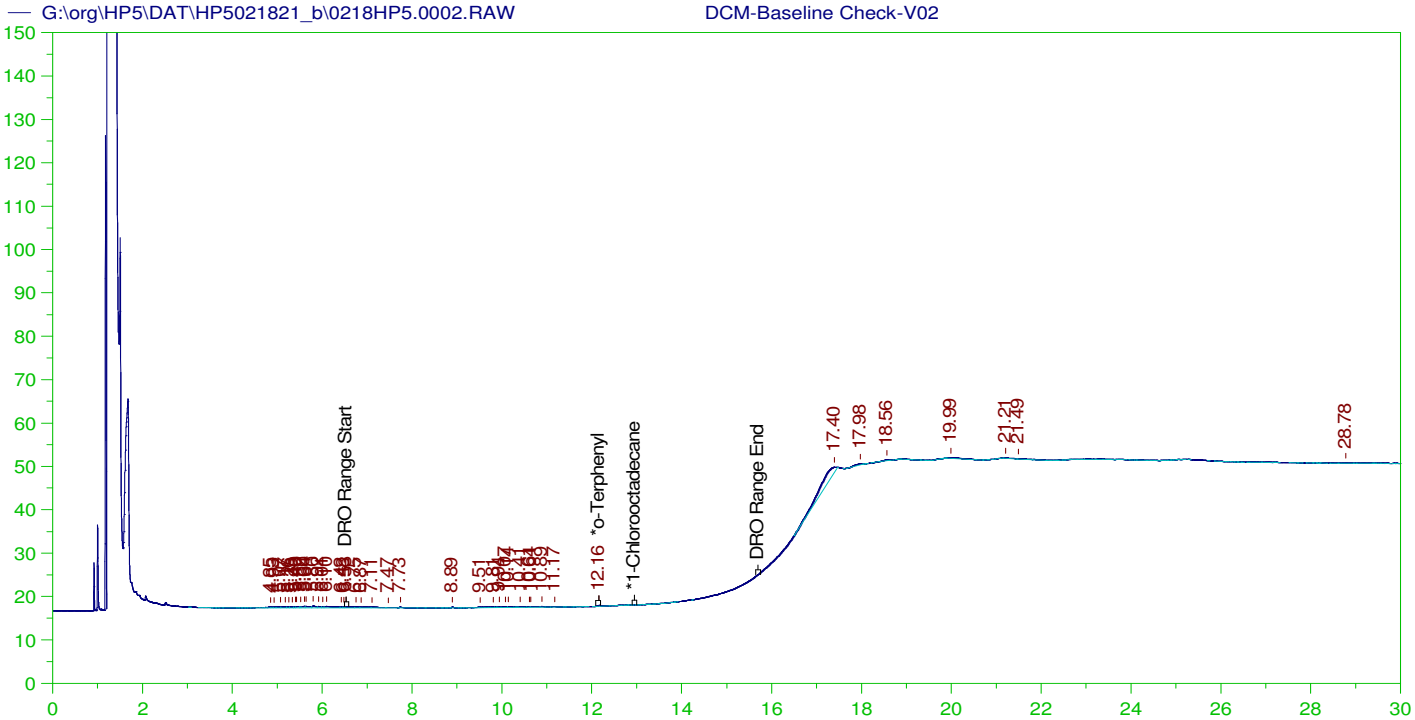
Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




G:\org\HP5\dat\HP5021821_b\Review\001_Marker_0218HP501r_CSC210212.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

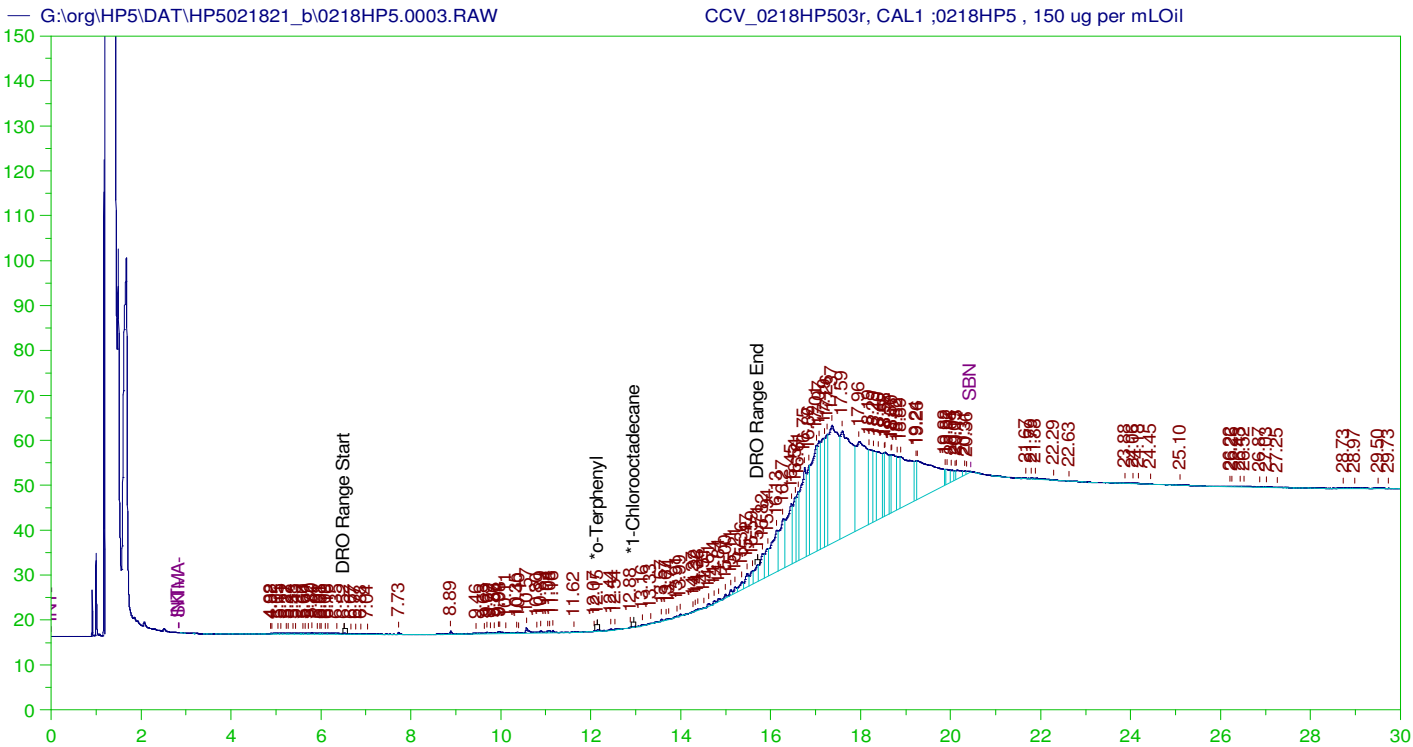
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
Date & Time Acquired: 2/18/2021 11:21:40 AM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.158 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 29.927 | 200. | . | . | - |

DRO Area:29553.31 DRO Amount: 1.003258
TEH Area:144057.3 TEH Amount: 4.890373

G:\org\HP5\dat\HP5021821_b\Review\002_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW
Date & Time Acquired: 2/18/2021 12:03:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021803-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | - |

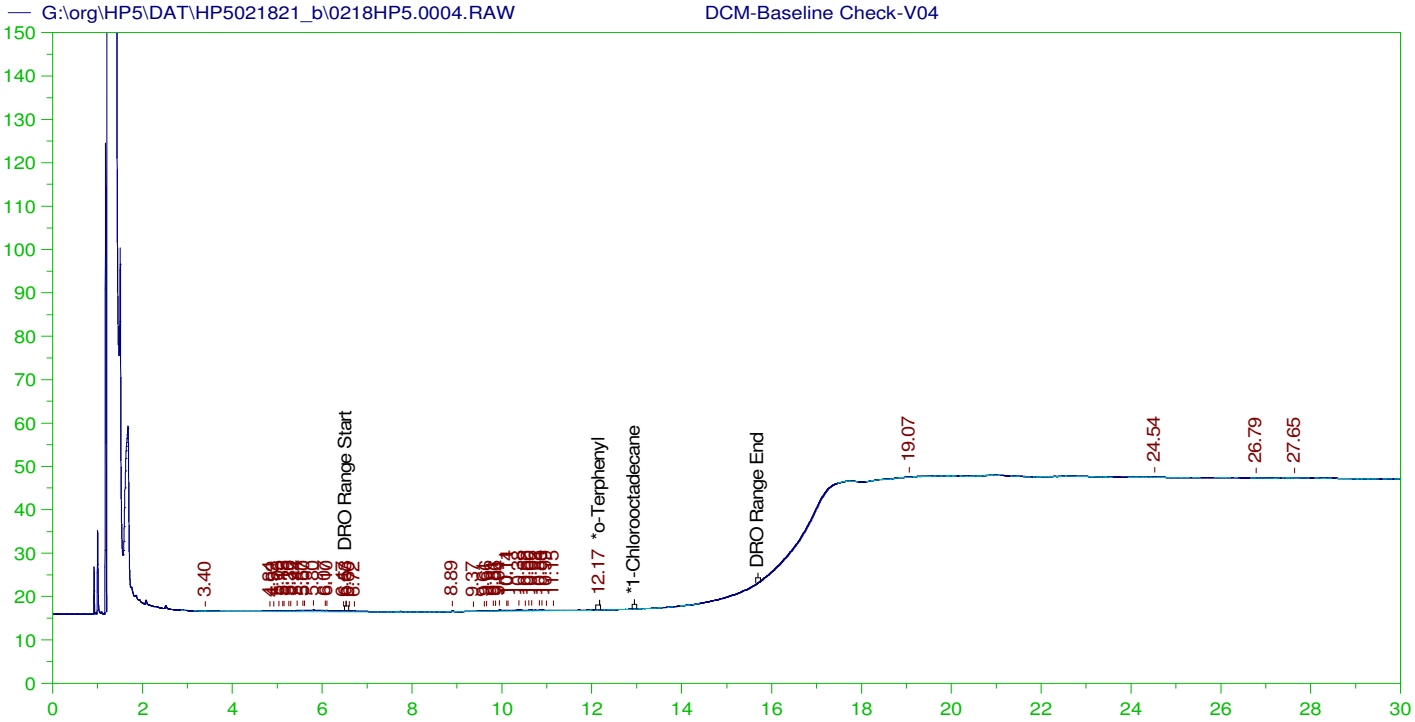
DRO Area:141843.8 DRO Amount: 4.969579
TEH Area:3766485 TEH Amount: 131.961

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 131.96 | 2.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | 85-115 |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\003_CCV_0218HP503r_DR_OIL-021803-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

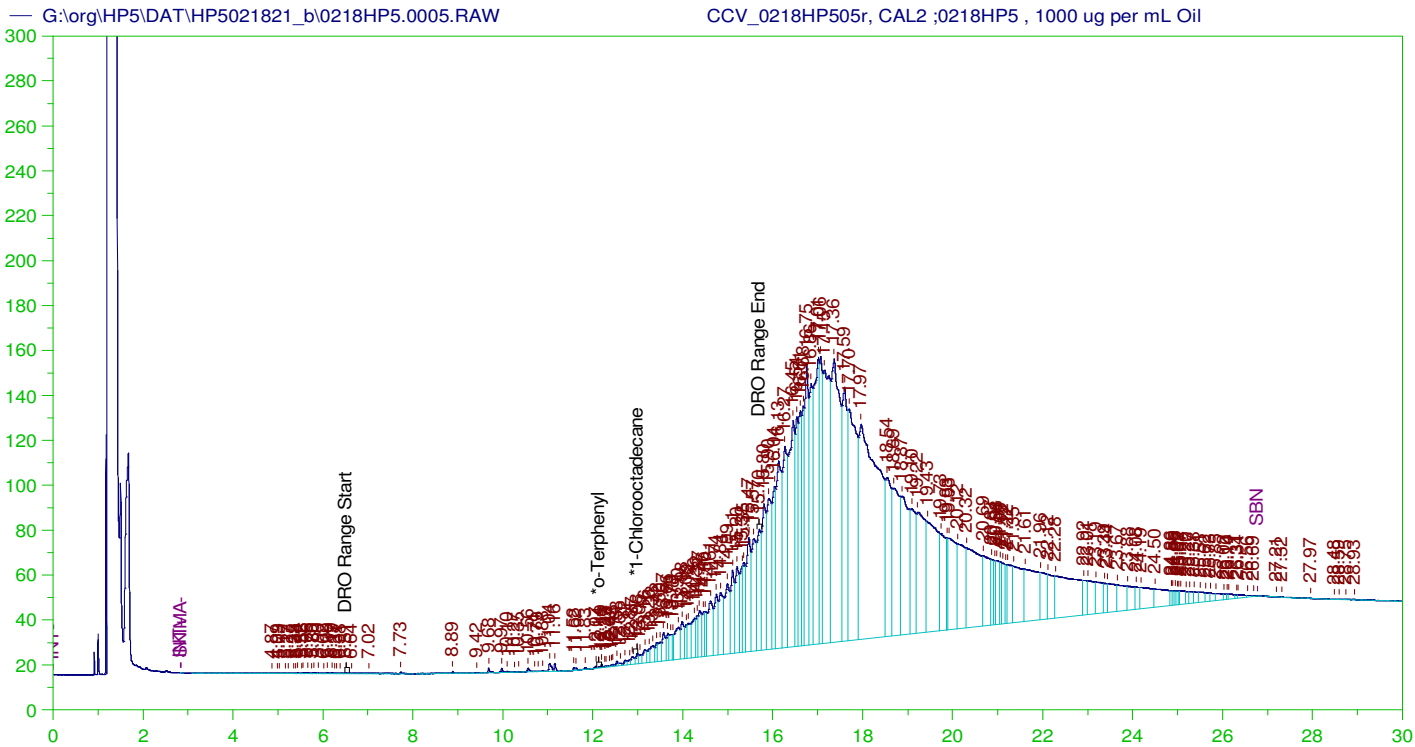
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
Date & Time Acquired: 2/18/2021 12:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.171 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.958 | 200. | . | . | - |

DRO Area:27245.38 DRO Amount: 0.9249101
TEH Area:63574.01 TEH Amount: 2.158173

G:\org\HP5\dat\HP5021821_b\Review\004_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW
Date & Time Acquired: 2/18/2021 1:27:30 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021805-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | - |

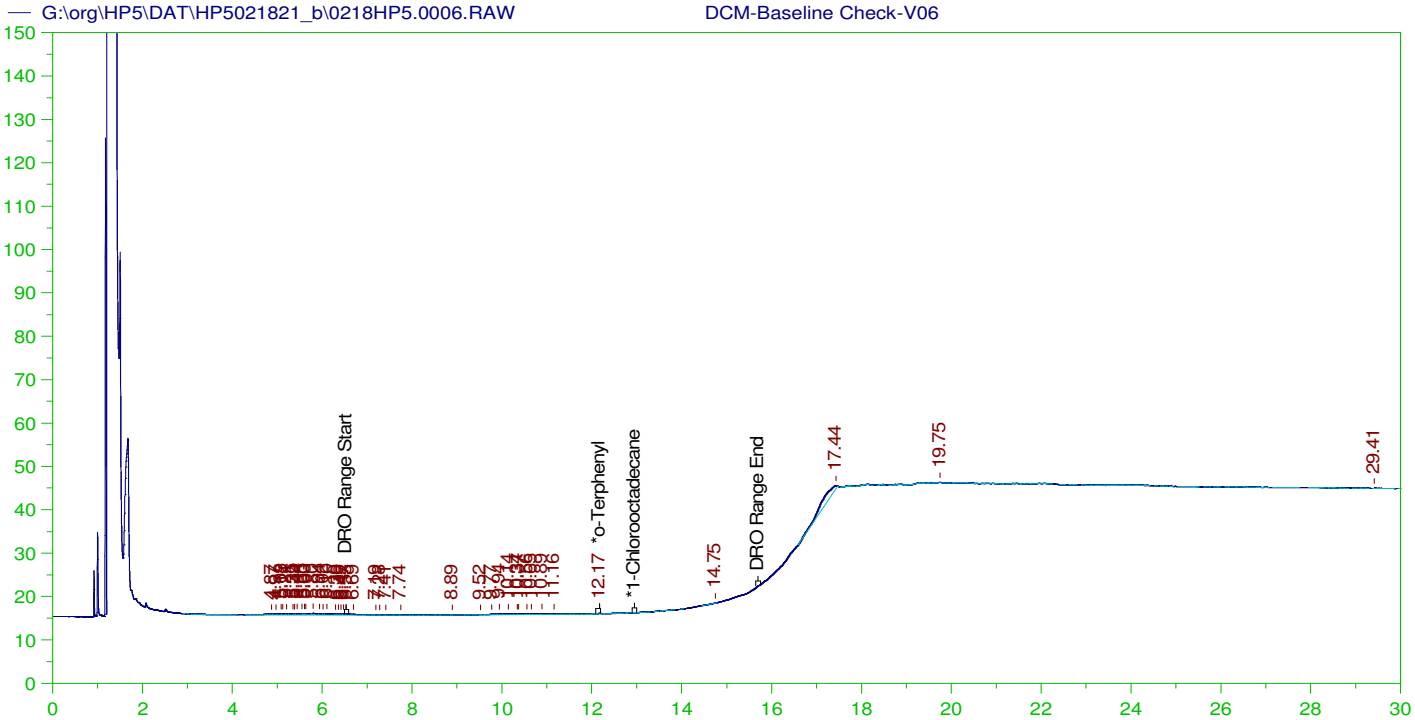
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1062.81 | 21.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | 85-115 |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\005_CCV_0218HP505r_DR_OIL-021805-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

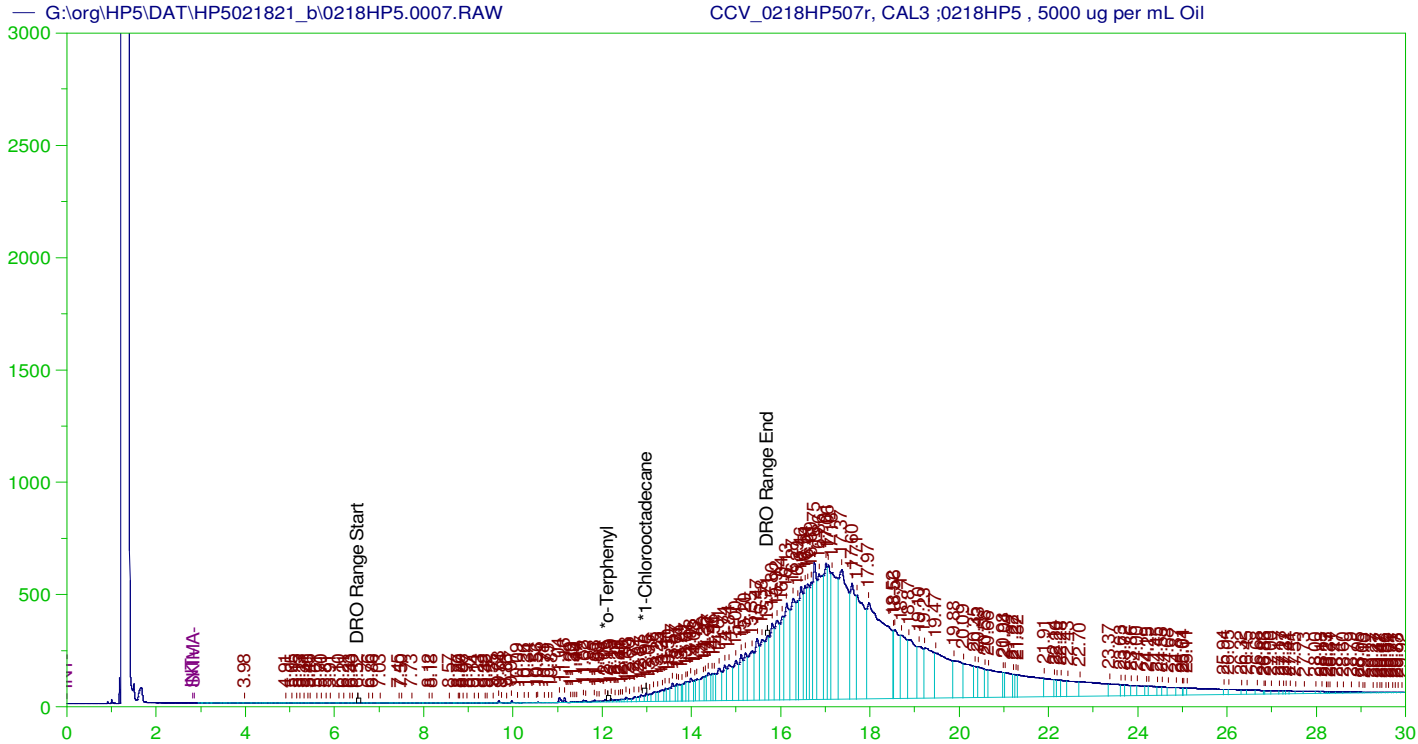
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0006.RAW
Date & Time Acquired: 2/18/2021 2:09:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:29249.25 DRO Amount: 0.9929362
TEH Area:123949.1 TEH Amount: 4.20775

G:\org\HP5\dat\HP5021821_b\Review\006_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW
Date & Time Acquired: 2/18/2021 2:51:00 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | - |

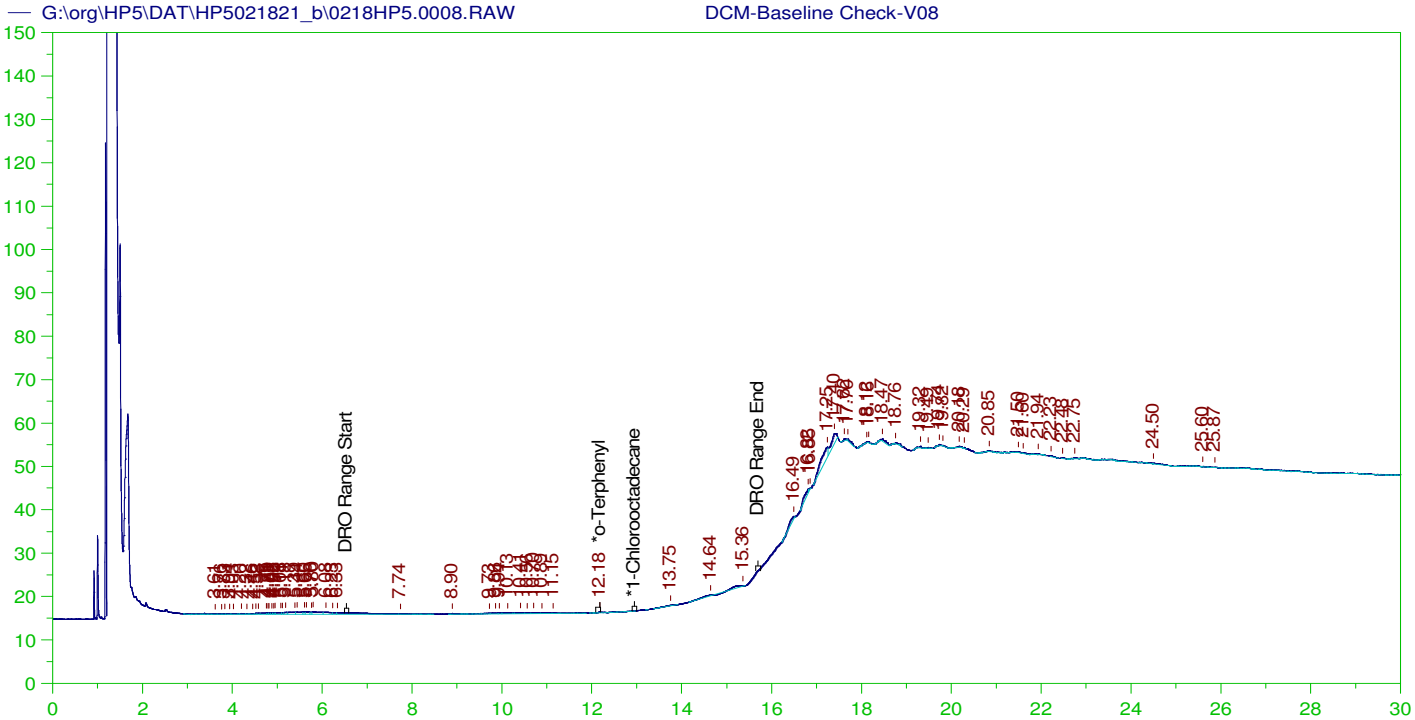
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5035.71 | 100.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\007_CCV_0218HP507r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

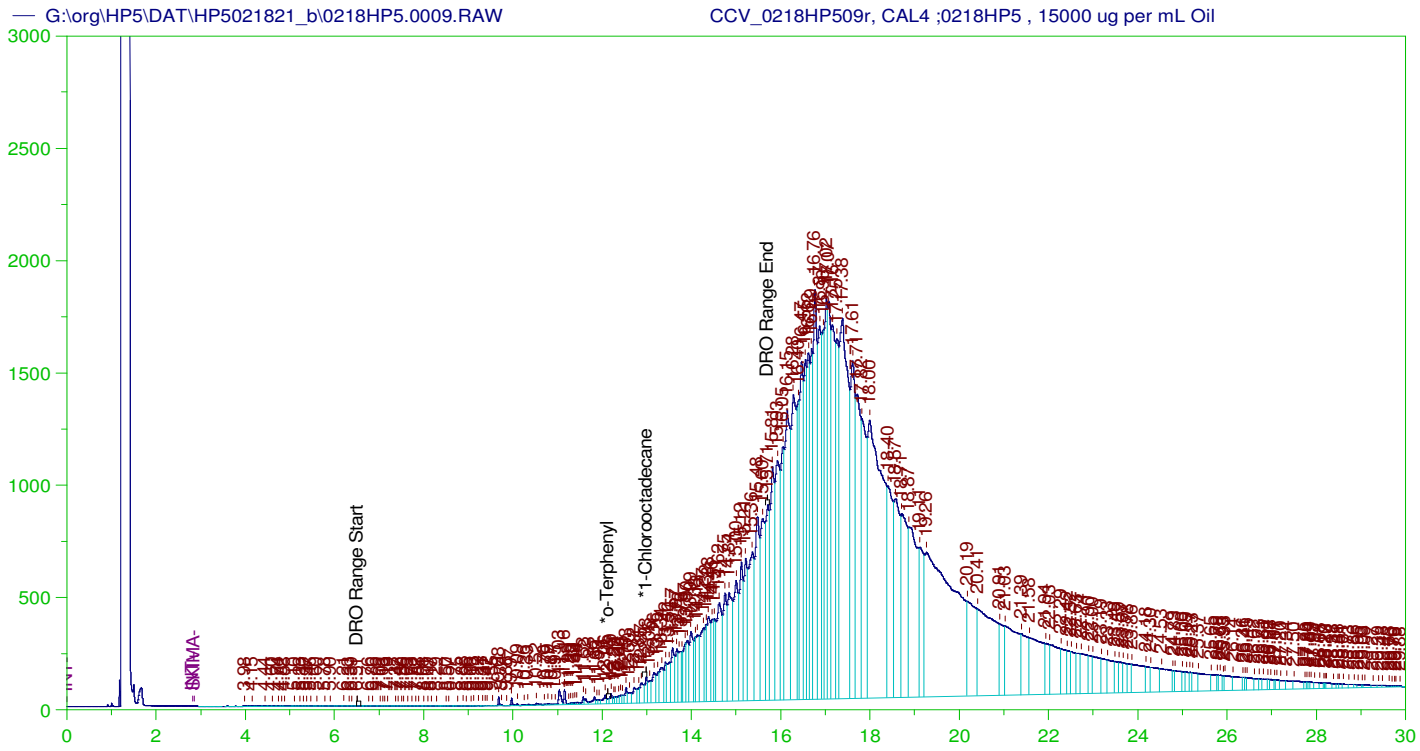
Sample Name: DCM-Baseline Check-V08
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0008.RAW
Date & Time Acquired: 2/18/2021 3:32:46 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .026 | .01 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:30717.07 DRO Amount: 1.042765
TEH Area:223672.8 TEH Amount: 7.593112

G:\org\HP5\dat\HP5021821_b\Review\008_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW
Date & Time Acquired: 2/18/2021 4:14:34 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | - |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | - |

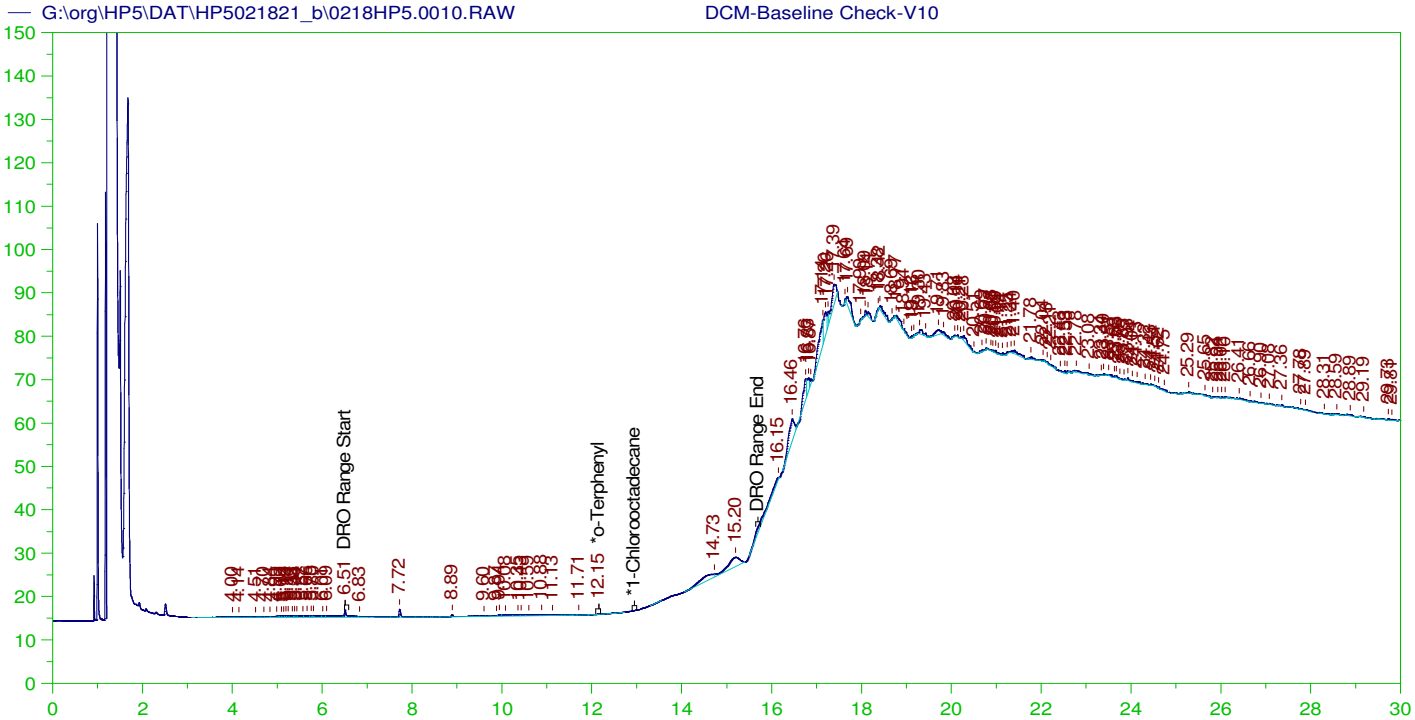
DRO Area:6.73131E+07 DRO Amount: 2358.354
TEH Area:4.193721E+08 TEH Amount: 14692.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14692.95 | 293.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | 85-115 |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\009_CCV_0218HP509r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

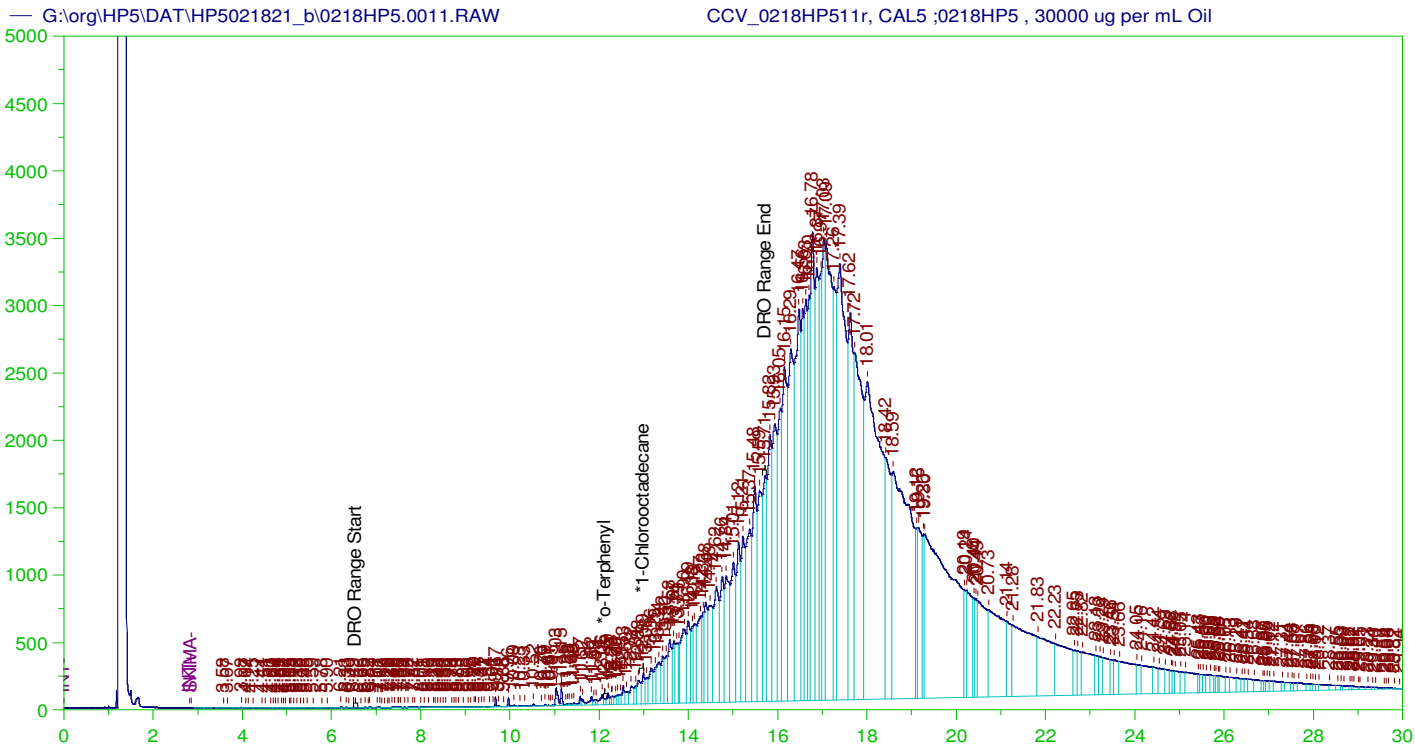
Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0010.RAW
Date & Time Acquired: 2/18/2021 4:56:16 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.153 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.957 | 200. | . | . | - |

DRO Area:108629.1 DRO Amount: 3.687675
TEH Area:543425.7 TEH Amount: 18.44789

G:\org\HP5\dat\HP5021821_b\Review\010_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW
Date & Time Acquired: 2/18/2021 5:38:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | - |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | - |

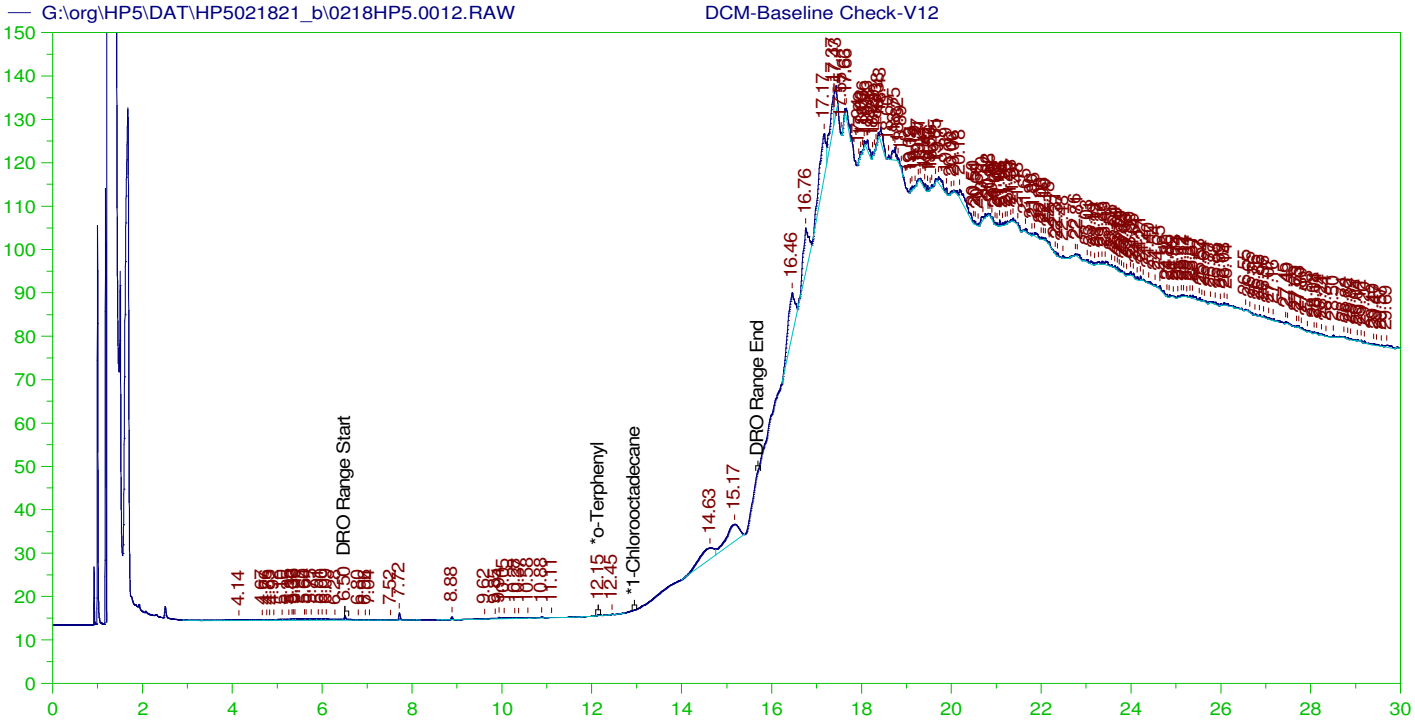
DRO Area:1.319327E+08 DRO Amount: 4622.338
TEH Area:8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 28207.69 | 564.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | 85-115 |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\011_CCV_0218HP511r_DR_OIL-021811-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

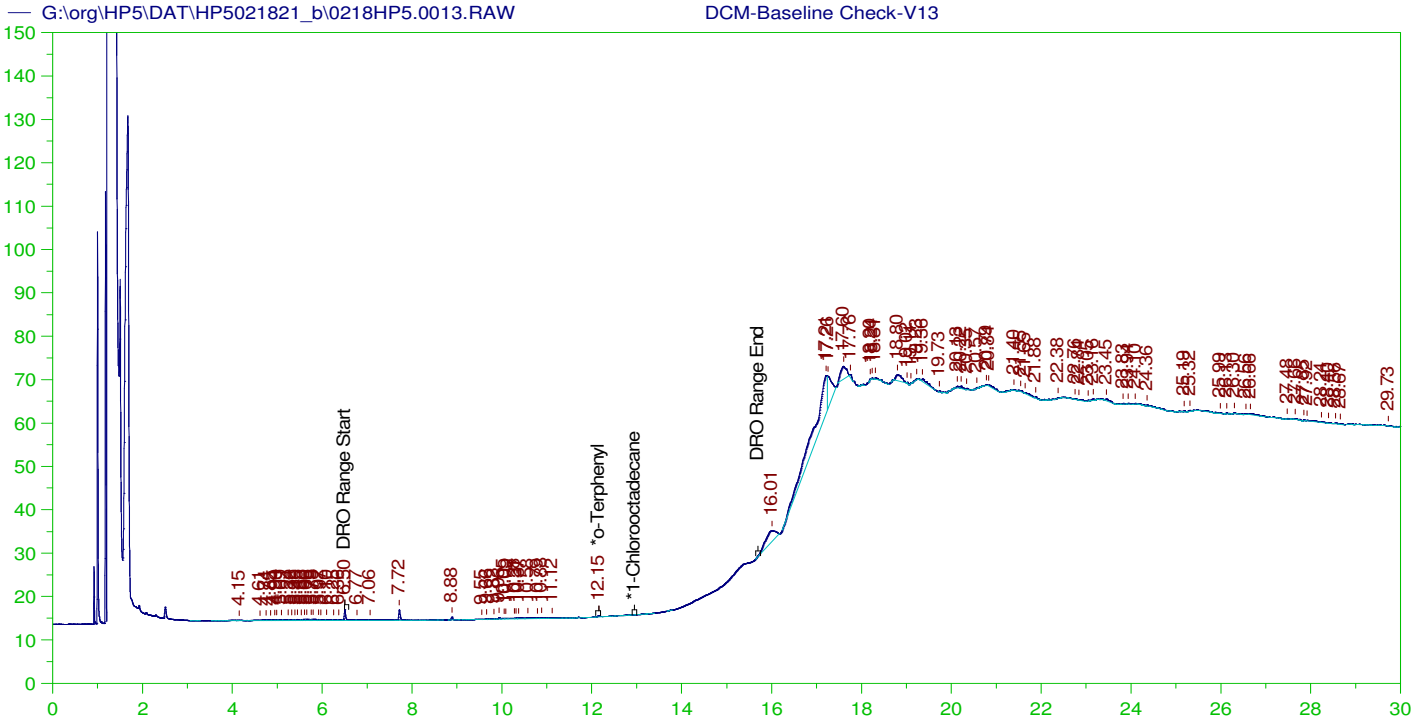
Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0012.RAW
Date & Time Acquired: 2/18/2021 6:20:48 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:186033.1 DRO Amount: 6.31534
TEH Area:888262.2 TEH Amount: 30.1542

G:\org\HP5\dat\HP5021821_b\Review\012_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

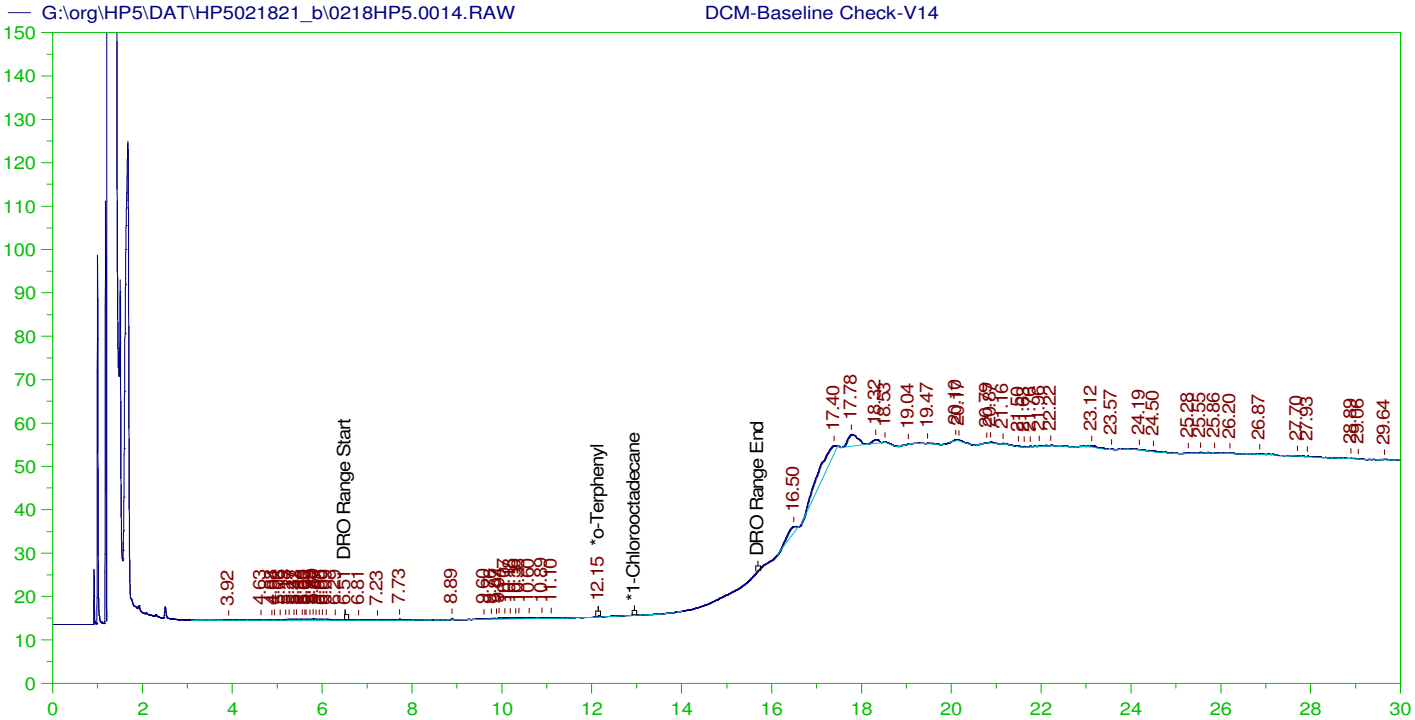
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0013.RAW
Date & Time Acquired: 2/18/2021 7:03:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.152 | 200. | .033 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:40824.55 DRO Amount: 1.385888
TEH Area:476705.3 TEH Amount: 16.18291

G:\org\HP5\dat\HP5021821_b\Review\013_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

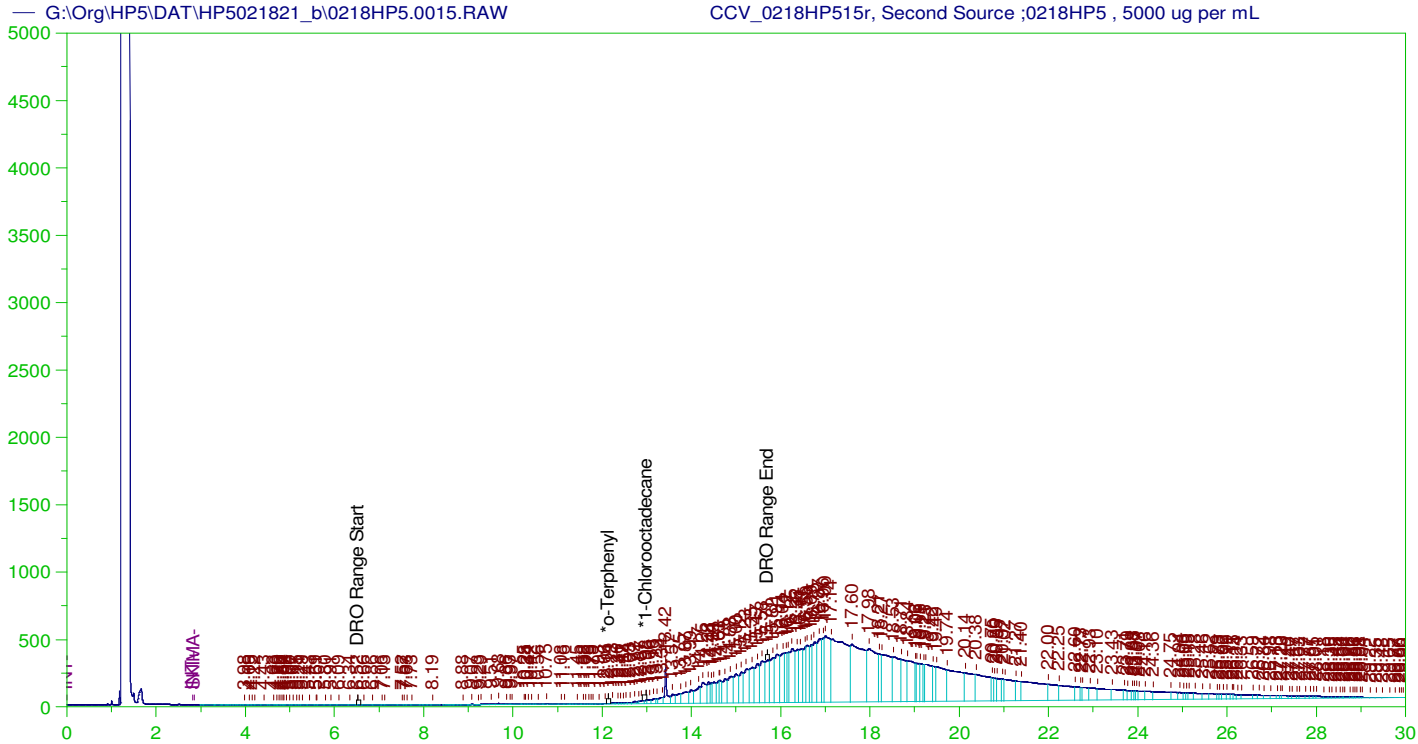
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0014.RAW
Date & Time Acquired: 2/18/2021 7:45:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.148 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.949 | 200. | . | . | - |

DRO Area:30445.24 DRO Amount: 1.033537
TEH Area:297634.4 TEH Amount: 10.10392

G:\org\HP5\dat\HP5021821_b\Review\014_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL
Raw File: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW
Date & Time Acquired: 2/18/2021 8:27:37 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 - |

DRO Area:2.558549E+07 DRO Amount: 0.8964027
TEH Area:1.562544E+08 TEH Amount: 5.474465

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5.47 | .11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | | 85-115 |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\015_CCV_0218HP515r_DR_OIL-021811-AA-L0.xls

| Write Sequence Data File | Sample Nan Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.09.20 13:12:26 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*08-Dec-20*

**Run ID** GCFID-HP4-B_201204B

| | |
|---|---|
| **Run Start Date:** | 12/4/2020 |
| **Analyst:** | Ann Nebel |
| **Ical:** | |
| **Column ID:** | |
| **Comments:** | NEW ICAL<br>SW8015C_DRO201204MA.CAL |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO191002A | #2 Diesel in Acetone 150,000 ug/mL | | | | | ICV-SECON | 11/5/2023 |
| DRO200420B | OTP-4000 ug/mL DCM | | | | | SURR CAL | 9/30/2024 |
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | DIESEL CA | 12/31/2021 |
| DRO201106B | ALASKA MARKER-200ug/mL | | | | | MARKER | 9/30/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091272 | CCV_1204HP40 | HC-8015-DRO- | CCV | | 12/4/2020 11:36: | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091273 | CCV_1204HP40 | HC-8015-DRO- | CAL1 | | 12/4/2020 1:05:3 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00192436 | | 0.002 | 0 | 0 | 0 | 0.002 | 0 | 96% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091274 | CCV_1204HP40 | HC-8015-DRO- | CAL2 | | 12/4/2020 1:50:2 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04829156 | | 0.05 | 0 | 0 | 0.000531 | 0.002 | 0 | 97% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091275 | CCV_1204HP40 | HC-8015-DRO- | CAL3 | | 12/4/2020 2:35:4 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2028877 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091276 | CCV_1204HP40 | HC-8015-DRO- | CAL4 | | 12/4/2020 3:20:1 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.5068046 | | 0.5 | 0 | 0 | 0.000531 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091277 | CCV_1204HP40 | HC-8015-DRO- | CAL5 | | 12/4/2020 4:04:3 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 1.043939 | | 1 | 0 | 0 | 0.000531 | 0.002 | 0 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091278 | CCV_1204HP41 | HC-8015-DRO- | CAL2 | | 12/4/2020 5:34:2 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.718009 | | 3.75 | 0 | 0 | 0.047 | 0.3 | 50 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091279 | CCV_1204HP41 | HC-8015-DRO- | CAL3 | | 12/4/2020 6:19:1 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.11043 | | 15 | 0 | 0 | 0.047 | 0.3 | 50 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091280 | CCV_1204HP41 | HC-8015-DRO- | CAL4 | | 12/4/2020 7:04:0 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 38.23891 | | 37.5 | 0 | 0 | 0.047 | 0.3 | 50 | 102% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091281 | CCV_1204HP41 | HC-8015-DRO- | CAL5 | | 12/4/2020 7:49:1 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 51.19762 | | 50 | 0 | 0 | 0.047 | 0.3 | 50 | 102% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091282 | CCV_1204HP41 | HC-8015-DRO- | ICV | | 12/4/2020 8:34:1 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 16.37125 | | 15 | 0 | 0 | 0.047 | 0.3 | 50 | 109% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091283 | CCV_1204HP44 | HC-8015-DRO- | CCV | | 12/5/2020 6:02:3 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14091284 | CCV_1204HP44 | HC-8015-DRO- | CAL1 | | 12/5/2020 7:32:1 | 1 | R353069 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1436269 | | 0.15 | 0 | 0 | 0 | 0.3 | 50 | 96% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP4\DAT\HP4120420_b\1204HP4.01r | DCM-Baseline Check-V01 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.02r | CCV_1204HP402r, DRO ;1204HP4 , DRO201106B | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.03r | DCM-Baseline Check-V03 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.04r | CCV_1204HP404r, CAL1 ;1204HP4 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.05r | CCV_1204HP405r, CAL2 ;1204HP4 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.06r | CCV_1204HP406r, CAL3 ;1204HP4 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.07r | CCV_1204HP407r, CAL4 ;1204HP4 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.08r | CCV_1204HP408r, CAL5 ;1204HP4 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO20420B + 750 DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.10r | CCV_1204HP410r, CAL2 ;1204HP4 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.11r | CCV_1204HP411r, CAL3 ;1204HP4 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.12r | CCV_1204HP412r, CAL4 ;1204HP4 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.13r | CCV_1204HP413r, CAL5 ;1204HP4 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.14r | CCV_1204HP418r, Second Source ;1204HP4 , 15000 ug per mL (100uL of DRO191002A + 900uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.43r | CCV_1204HP443r, DRO ;1204HP4 , DRO201106B | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.44r | DCM-Baseline Check-V44 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4120420_b\1204HP4.45r | CCV_1204HP445r, CAL1 ;1204HP4 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13285), then 100 uL of that + 100 uL of DCM (13285)) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Version: 14

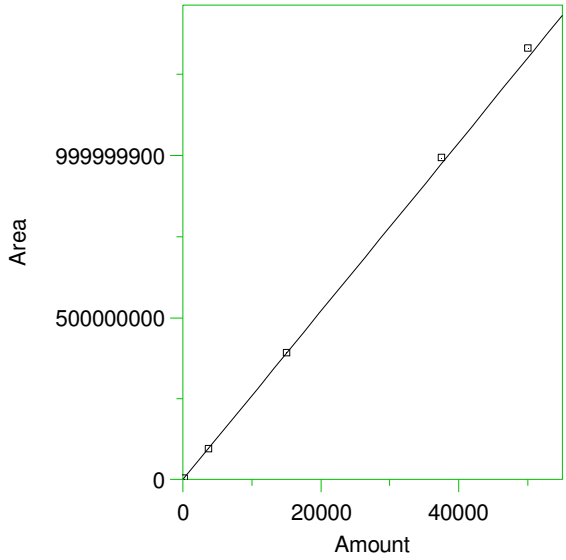
Creator: AMN
Description: DRO-8015. New ICal Per 1204HP4 (2020)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.63 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

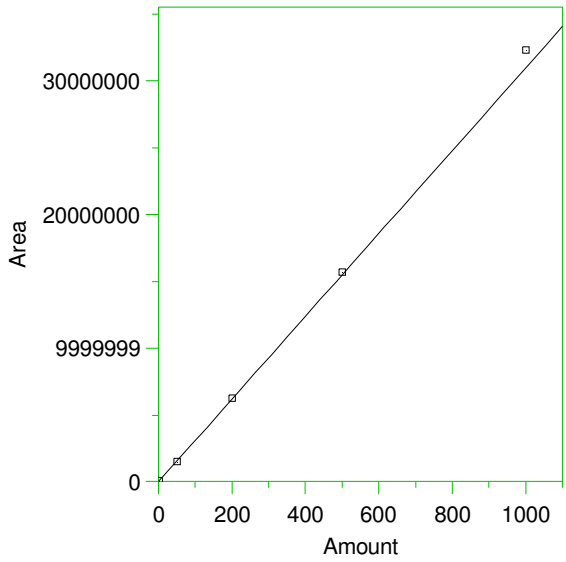
Y = 26029.55 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9989907 |
| Average error: | 2.041% |
| Average CF: | 26029.55 |
| RSD: | 2.690% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3738542 | 24923.61 | -4.249 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0004.BND | 12/7/2020 10:27:32 AM |
| 2 | 3750 | 9.67781E+07 | 25807.49 | -0.853 | Manual | 12/7/2020 10:30:52 AM |
| 3 | 15000 | 3.933177E+08 | 26221.18 | 0.736 | Manual | 12/7/2020 10:30:16 AM |
| 4 | 37500 | 9.953414E+08 | 26542.44 | 1.970 | Manual | 12/7/2020 10:30:48 AM |
| 5 | 50000 | 1.332651E+09 | 26653.02 | 2.395 | Manual | 12/7/2020 10:30:30 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.7 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

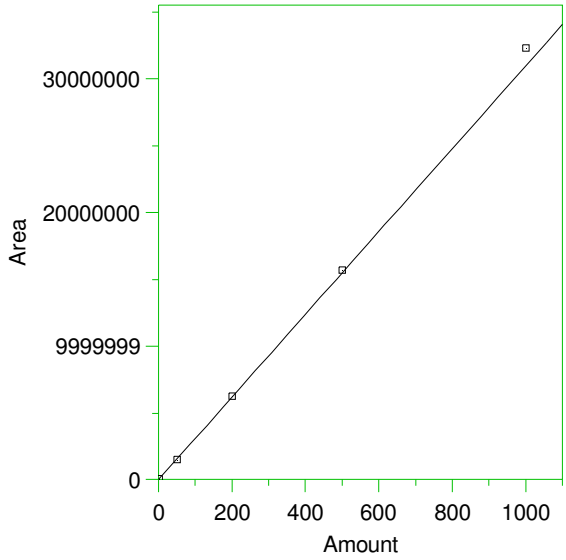
Y = 30968.61 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9973109 |
| Average error: | 2.879% |
| Average CF: | 30968.61 |
| RSD: | 3.508% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 59594.86 | 29797.43 | -3.782 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0004.BND | 12/7/2020 10:27:32 AM |
| 2 | 50 | 1495522 | 29910.44 | -3.417 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0005.BND | 12/7/2020 10:27:37 AM |
| 3 | 200 | 6283151 | 31415.76 | 1.444 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0006.BND | 12/7/2020 10:28:12 AM |
| 4 | 500 | 1.569503E+07 | 31390.06 | 1.361 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0007.BND | 12/7/2020 10:28:17 AM |
| 5 | 1000 | 3.232935E+07 | 32329.35 | 4.394 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0008.BND | 12/7/2020 10:28:22 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.52 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

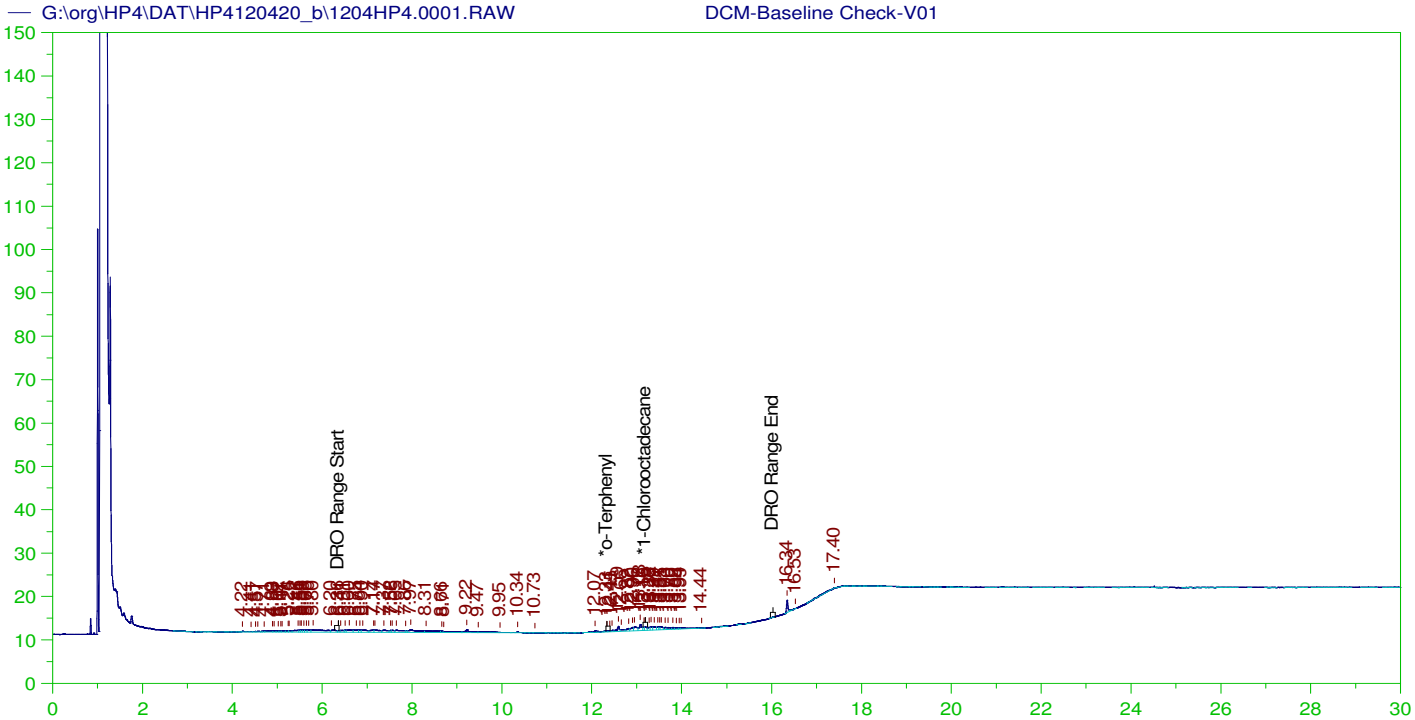
Single peak quantification by area

Y = 30968.61 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9973109 |
| Average error: | 2.879% |
| Average CF: | 30968.61 |
| RSD: | 3.508% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 59594.86 | 29797.43 | -3.782 | Manual | 12/7/2020 10:28:30 AM |
| 2 | 50 | 1495522 | 29910.44 | -3.417 | Manual | 12/7/2020 10:28:35 AM |
| 3 | 200 | 6283151 | 31415.76 | 1.444 | Manual | 12/7/2020 10:28:37 AM |
| 4 | 500 | 1.569503E+07 | 31390.06 | 1.361 | Manual | 12/7/2020 10:28:53 AM |
| 5 | 1000 | 3.232935E+07 | 32329.35 | 4.394 | Manual | 12/7/2020 10:28:55 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

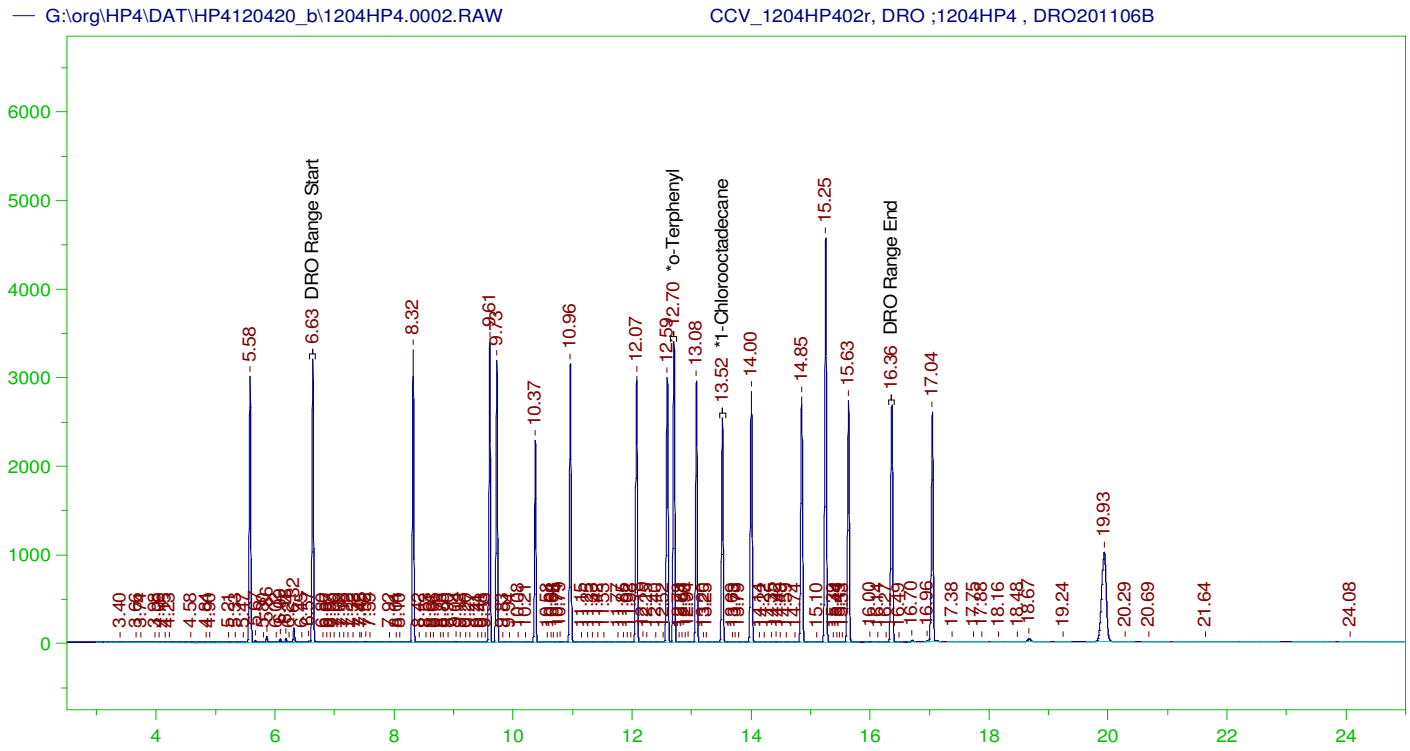
Sample Name: DCM-Baseline Check-V01
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0001.RAW
Date & Time Acquired: 12/4/2020 10:51:29 AM
Method File: G:\Org\HP4\Methods\DR_8015-LV-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO200127LV.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26131.15
Rt range for Diesel Range Organics: 6.275 to 16.08

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.332 | 200. | .022 | .01 | - |
| *1-Chlorooctadecane | 13.19 | 200. | .087 | .04 | - |

DRO Area:131841.8 DRO Amount: 5.045388
TEH Area:191840.2 TEH Amount: 7.341434

G:\org\HP4\dat\HP4120420_b\Review\001_DCM-Baseline Chec_DR_8015-LV-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP402r, DRO ;1204HP4 , DRO201106B
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0002.RAW
Date & Time Acquired: 12/4/2020 11:36:06 AM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.704 | 200. | 196.793 | 98.4 | - |
| *1-Chlorooctadecane | 13.518 | 200. | 156.165 | 78.08 | - |

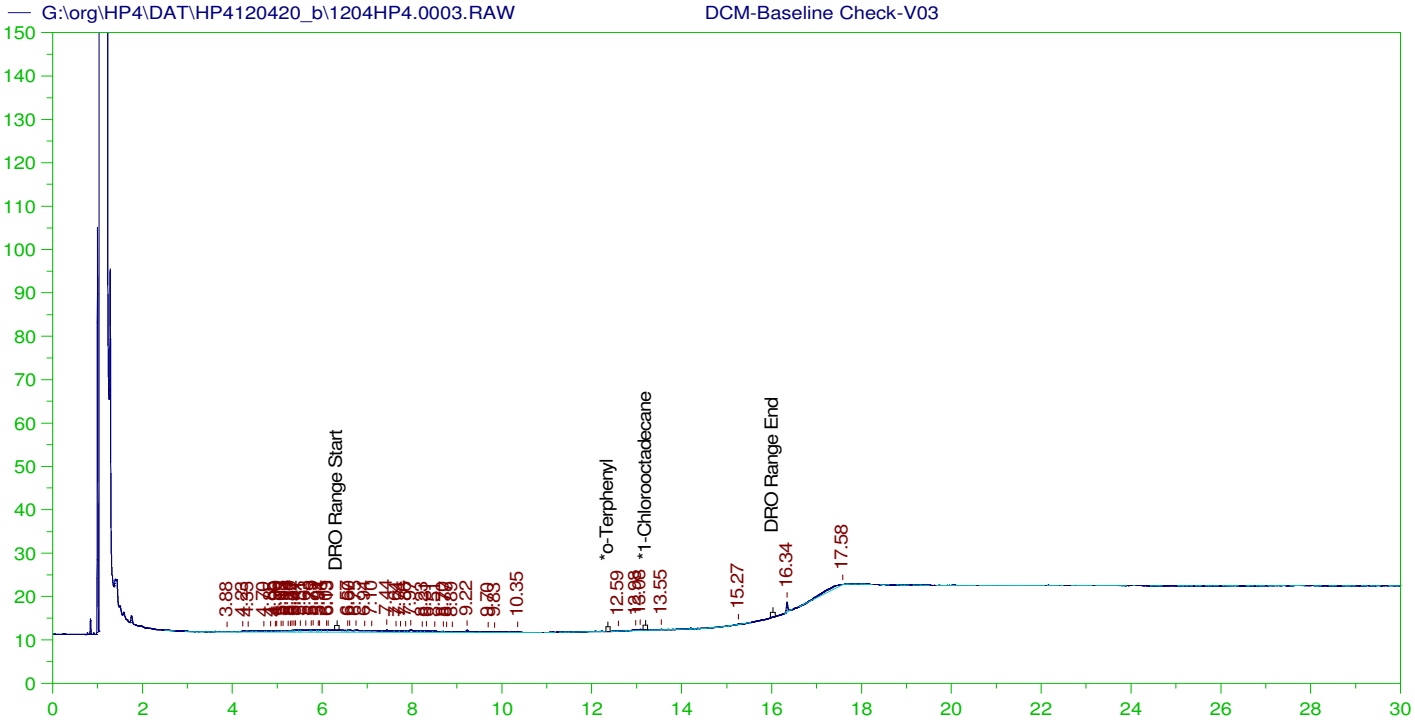
DRO Area:8.032126E+07 DRO Amount: 3085.772
TEH Area:9.790946E+07 TEH Amount: 3761.474

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0002.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3761.47 | 25.08 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.704 | 200. | 196.793 | 98.4 | 85-115 |
| *1-Chlorooctadecane | 13.518 | 200. | 156.165 | 78.08 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\002_CCV_1204HP402r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

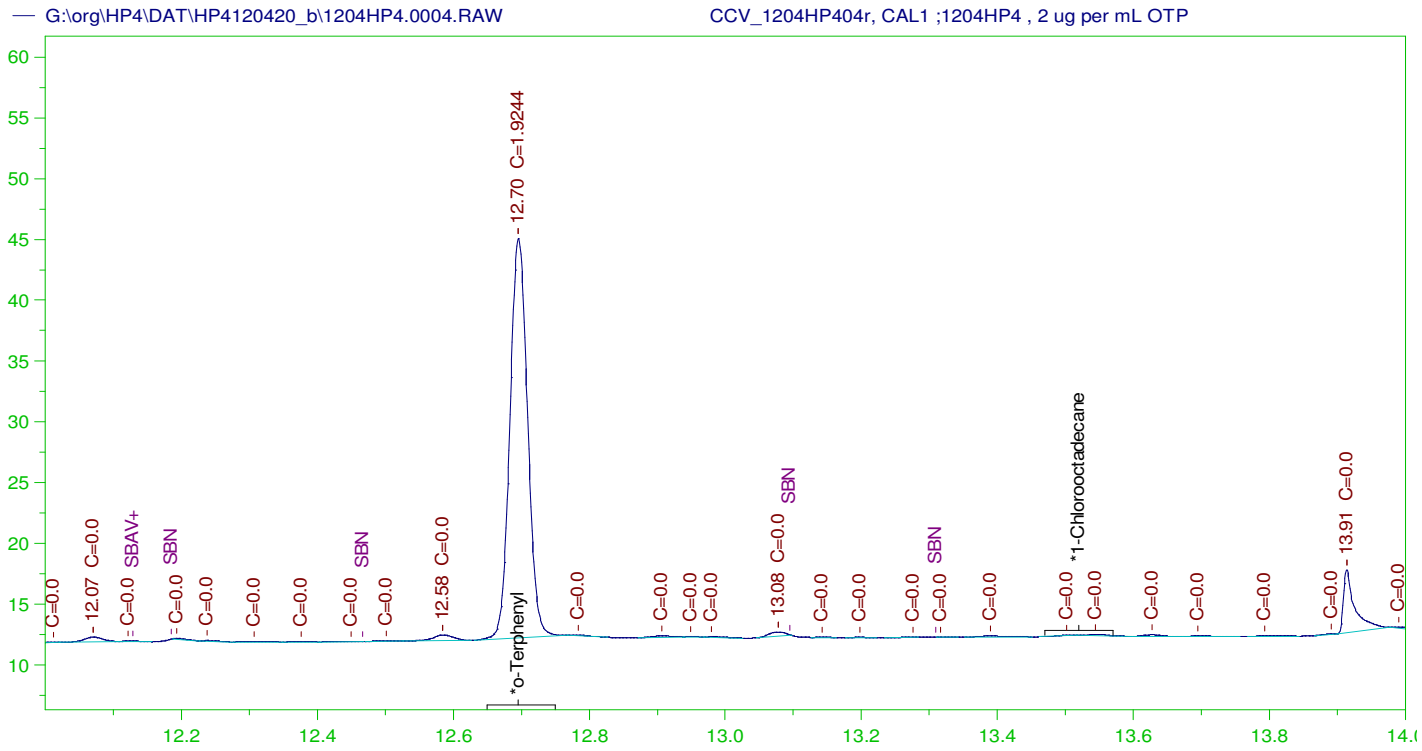
Sample Name: DCM-Baseline Check-V03
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0003.RAW
Date & Time Acquired: 12/4/2020 12:20:54 PM
Method File: G:\Org\HP4\Methods\DR_8015-LV-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO200127LV.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26131.15
Rt range for Diesel Range Organics: 6.275 to 16.08

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.924 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.924 | 200. | . | . | - |

DRO Area:61277.58 DRO Amount: 2.345001
TEH Area:138711.7 TEH Amount: 5.308289

G:\org\HP4\dat\HP4120420_b\Review\003_DCM-Baseline Chec_DR_8015-LV-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP404r, CAL1 ;1204HP4 , 2 ug per mL OTP
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0004.RAW
Date & Time Acquired: 12/4/2020 1:05:36 PM
Method File: G:\Org\HP4\Methods\DS_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.696 | 200. | 1.924 | .96 | - |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | - |

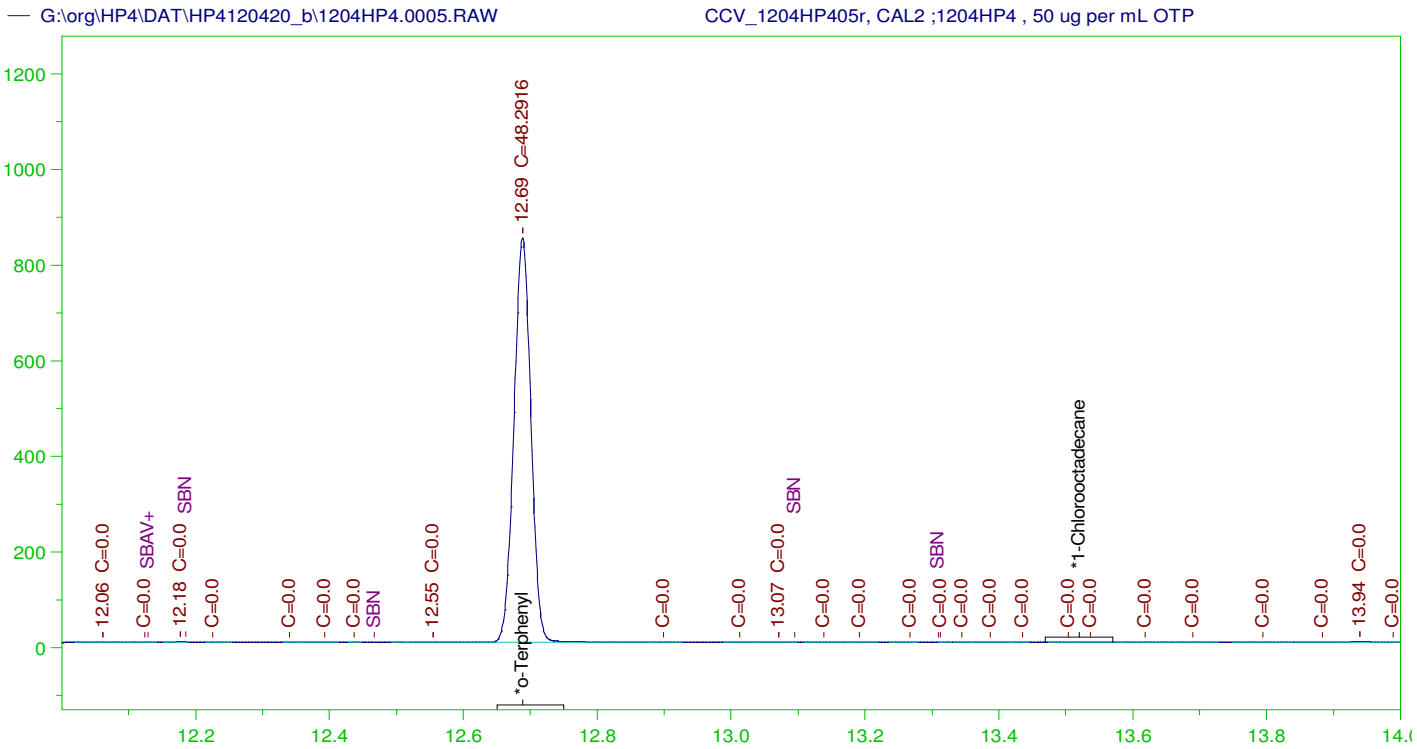
DRO Area:42806.8 DRO Amount: 1.644547
TEH Area:78294.04 TEH Amount: 3.007891

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.696 | 200. | 1.924 | .96 | 85-115 |
| *1-Chlorooctadecane | 29.976 | 200. | . | . | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\004_CCV_1204HP404r_DS_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP405r, CAL2 ;1204HP4 , 50 ug per mL OTP
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0005.RAW
Date & Time Acquired: 12/4/2020 1:50:24 PM
Method File: G:\Org\HP4\Methods\DS_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.688 | 200. | 48.292 | 24.15 | - |
| *1-Chlorooctadecane | 29.965 | 200. | . | . | - |

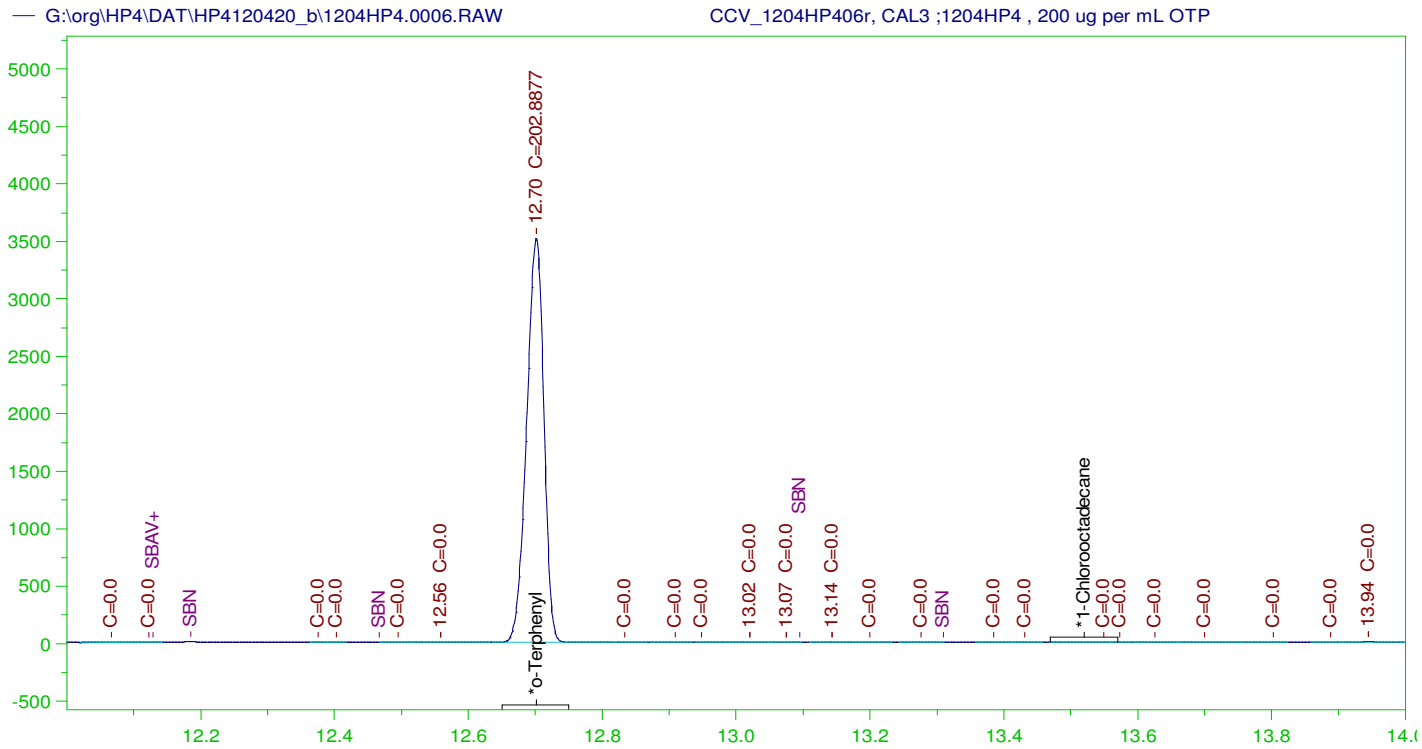
DRO Area:27898.55 DRO Amount: 1.071803
TEH Area:56399.18 TEH Amount: 2.166737

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.688 | 200. | 48.292 | 24.15 | 85-115 |
| *1-Chlorooctadecane | 29.965 | 200. | . | . | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\005_CCV_1204HP405r_DS_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP406r, CAL3 ;1204HP4 , 200 ug per mL OTP
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0006.RAW
Date & Time Acquired: 12/4/2020 2:35:41 PM
Method File: G:\Org\HP4\Methods\DS_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.701 | 200. | 202.888 | 101.44 | - |
| *1-Chlorooctadecane | 29.987 | 200. | . | . | - |

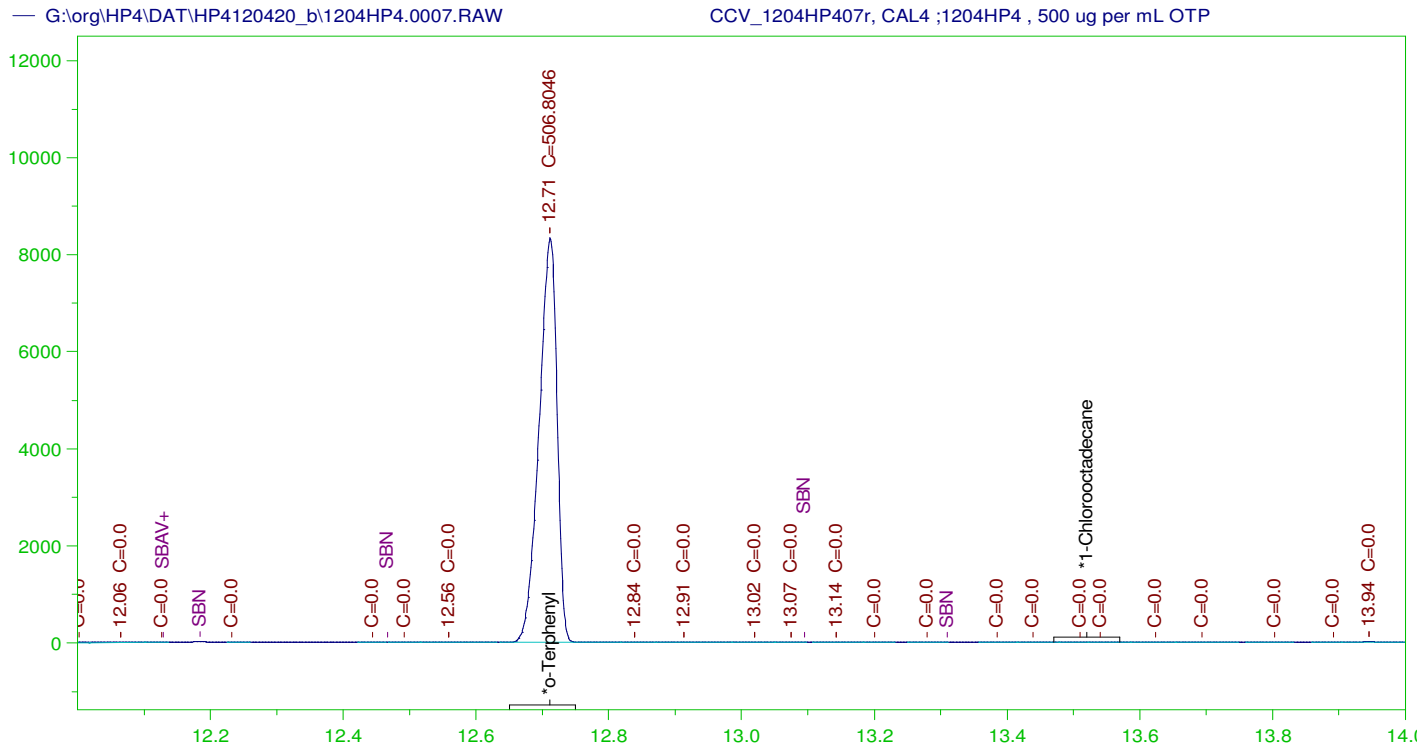
DRO Area:58902.57 DRO Amount: 2.262912
TEH Area:77900.72 TEH Amount: 2.99278

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.701 | 200. | 202.888 | 101.44 | 85-115 |
| *1-Chlorooctadecane | 29.987 | 200. | . | . | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\006_CCV_1204HP406r_DS_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP407r, CAL4 ;1204HP4 , 500 ug per mL OTP
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0007.RAW
Date & Time Acquired: 12/4/2020 3:20:14 PM
Method File: G:\Org\HP4\Methods\DS_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.712 | 200. | 506.805 | 253.4 | - |
| *1-Chlorooctadecane | 29.936 | 200. | . | . | - |

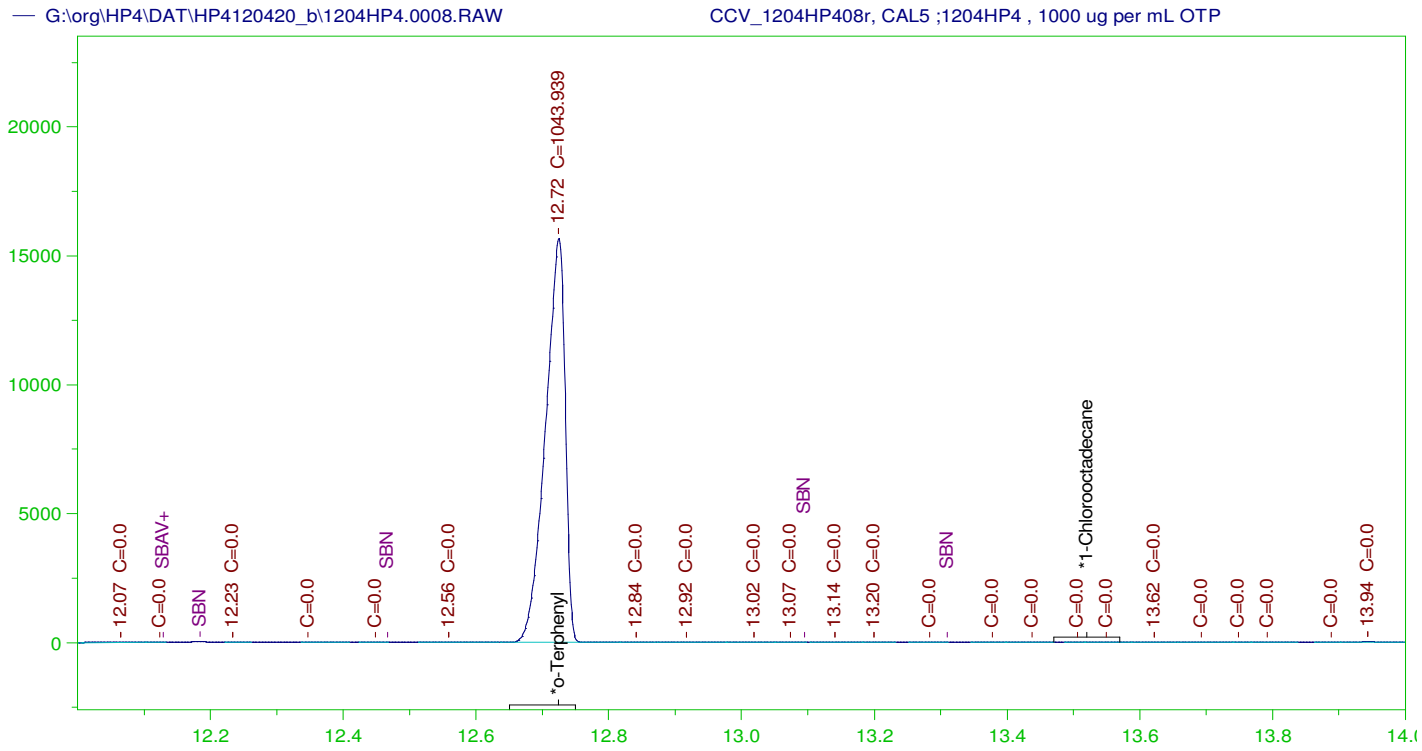
DRO Area:96470.52 DRO Amount: 3.706193
TEH Area:119636.2 TEH Amount: 4.596168

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.712 | 200. | 506.805 | 253.4 | 85-115 |
| *1-Chlorooctadecane | 29.936 | 200. | . | . | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\007_CCV_1204HP407r_DS_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP408r, CAL5 ;1204HP4 , 1000 ug per mL OTP
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0008.RAW
Date & Time Acquired: 12/4/2020 4:04:32 PM
Method File: G:\Org\HP4\Methods\DS_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.725 | 200. | 1043.939 | 521.97 | - |
| *1-Chlorooctadecane | 29.973 | 200. | . | . | - |

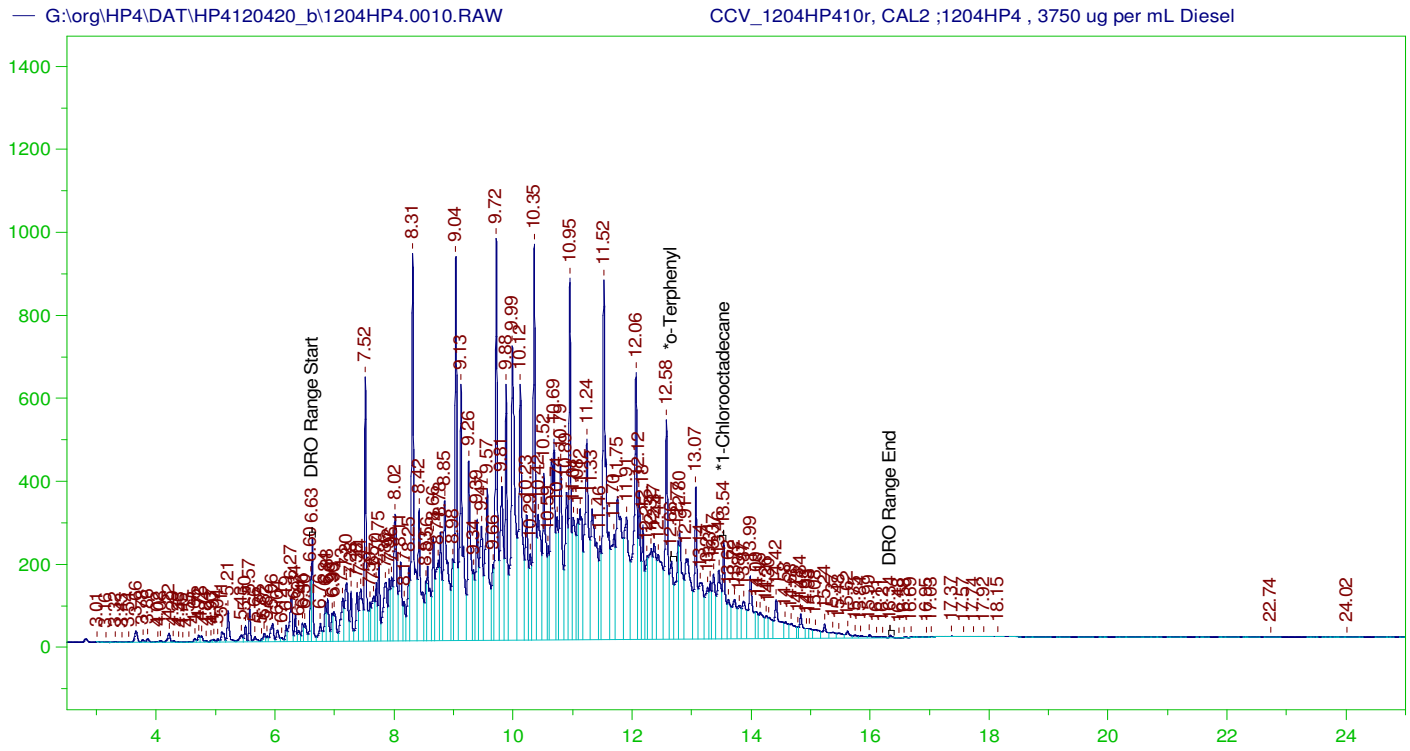
DRO Area:168511.6 DRO Amount: 6.473857
TEH Area:197978.1 TEH Amount: 7.605898

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.725 | 200. | 1043.939 | 521.97 | 85-115 |
| *1-Chlorooctadecane | 29.973 | 200. | . | . | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\008_CCV_1204HP408r_DS_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP410r, CAL2 ;1204HP4 , 3750 ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0010.RAW
Date & Time Acquired: 12/4/2020 5:34:20 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.661 | 200. | 25.472 | 12.74 | - |
| *1-Chlorooctadecane | 13.539 | 200. | 24.714 | 12.36 | - |

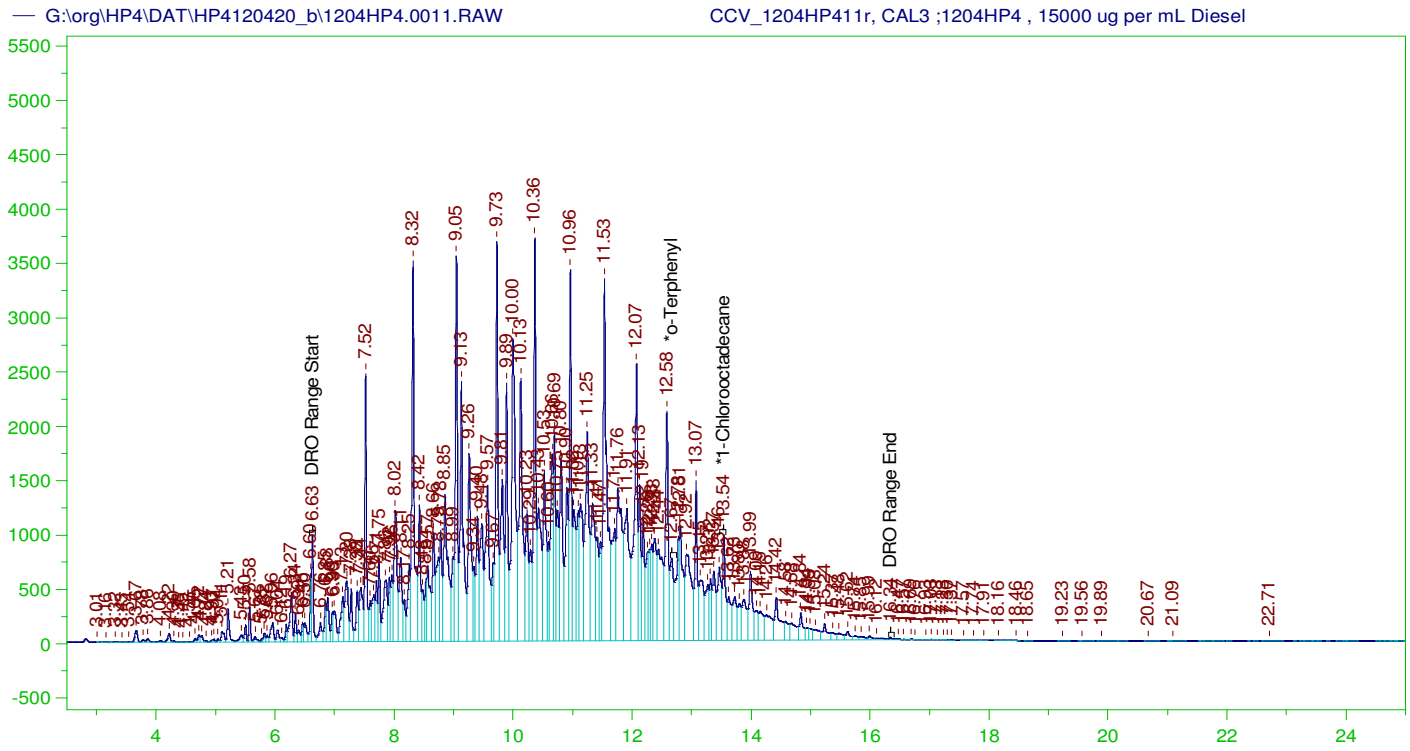
DRO Area:9.445692E+07 DRO Amount: 3628.834
TEH Area:9.67781E+07 TEH Amount: 3718.009

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3718.01 | 24.79 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.661 | 200. | 25.472 | 12.74 | 85-115 |
| *1-Chlorooctadecane | 13.539 | 200. | 24.714 | 12.36 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\010_CCV_1204HP410r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP411r, CAL3 ;1204HP4 , 15000 ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0011.RAW
Date & Time Acquired: 12/4/2020 6:19:16 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.667 | 200. | 105.518 | 52.76 | - |
| *1-Chlorooctadecane | 13.543 | 200. | 101.377 | 50.69 | - |

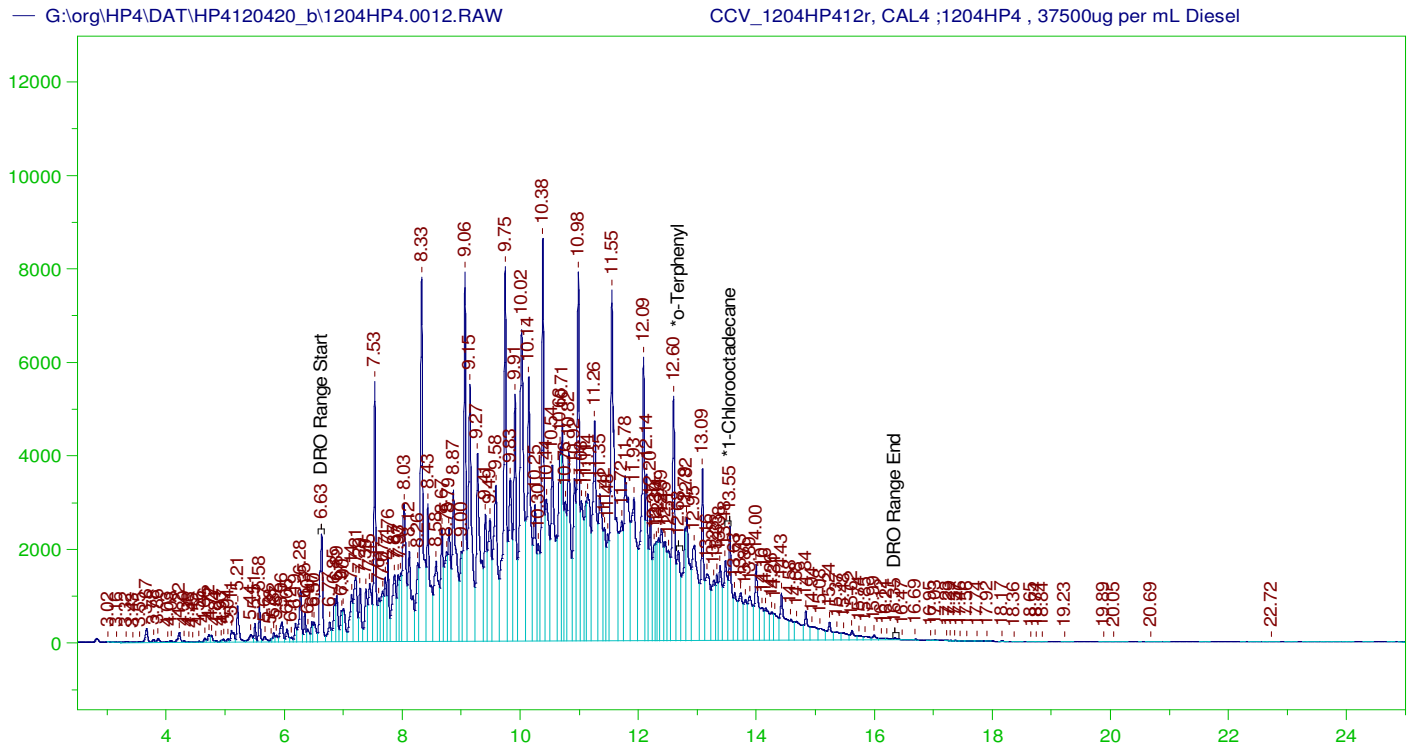
DRO Area:3.839842E+08 DRO Amount: 14751.86
TEH Area:3.933177E+08 TEH Amount: 15110.43

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15110.43 | 100.74 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.667 | 200. | 105.518 | 52.76 | 85-115 |
| *1-Chlorooctadecane | 13.543 | 200. | 101.377 | 50.69 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\011_CCV_1204HP411r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP412r, CAL4 ;1204HP4 , 37500ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0012.RAW
Date & Time Acquired: 12/4/2020 7:04:08 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.679 | 200. | 270.46 | 135.23 | - |
| *1-Chlorooctadecane | 13.552 | 200. | 259.974 | 129.99 | - |

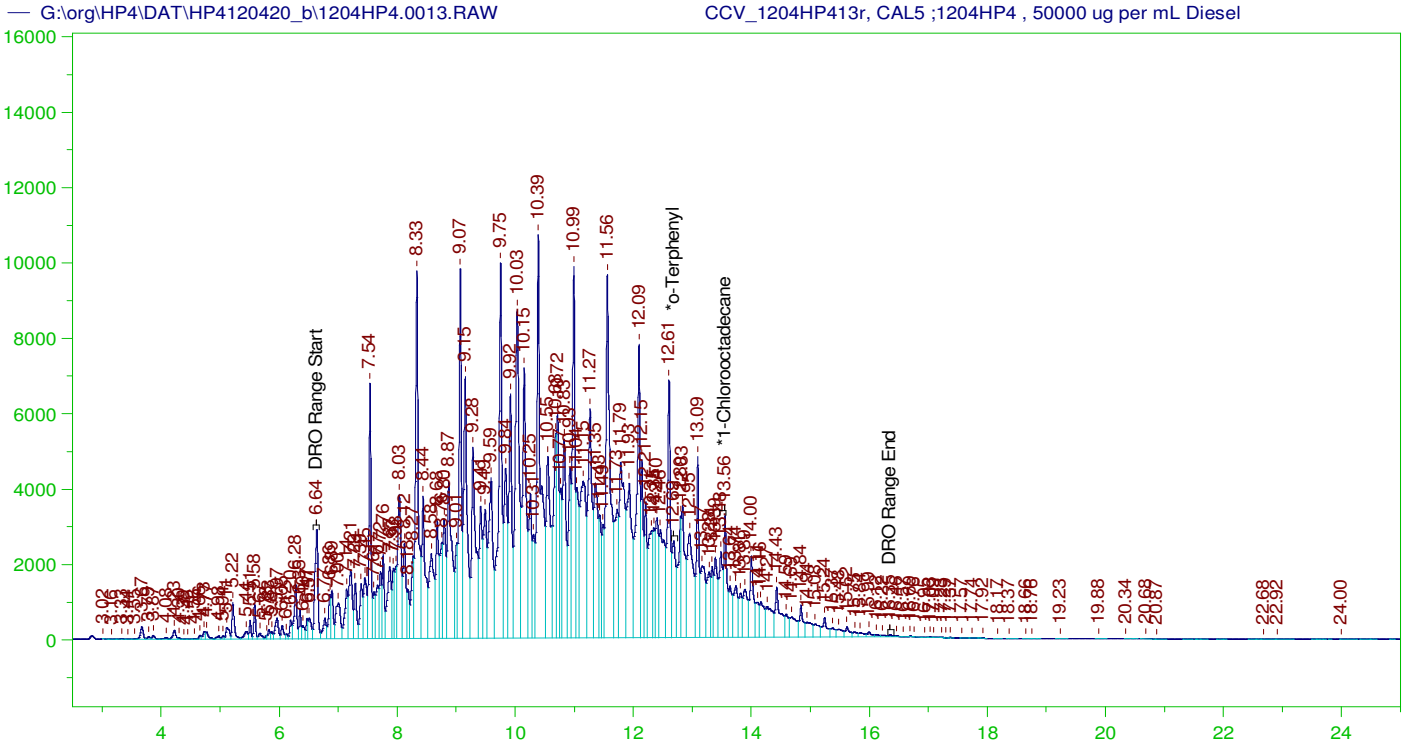
DRO Area:9.716485E+08 DRO Amount: 37328.68
TEH Area:9.953414E+08 TEH Amount: 38238.91

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 38238.91 | 254.93 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.679 | 200. | 270.46 | 135.23 | 85-115 |
| *1-Chlorooctadecane | 13.552 | 200. | 259.974 | 129.99 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\012_CCV_1204HP412r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP413r, CAL5 ;1204HP4 , 50000 ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0013.RAW
Date & Time Acquired: 12/4/2020 7:49:15 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

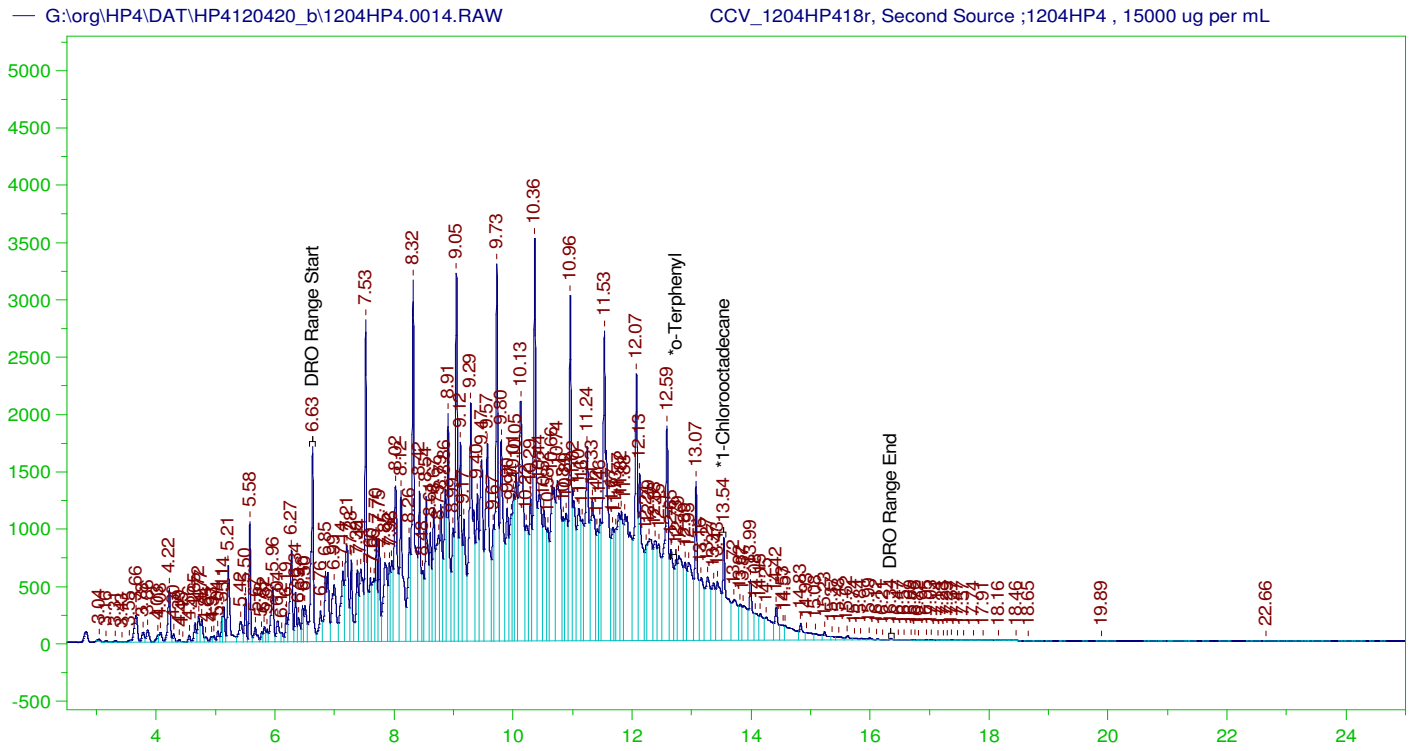
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.686 | 200. | 362.204 | 181.1 | - |
| *1-Chlorooctadecane | 13.555 | 200. | 354.367 | 177.18 | - |

DRO Area:1.300849E+09 DRO Amount: 49975.85
TEH Area:1.332651E+09 TEH Amount: 51197.62

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 51197.62 | 341.32 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.686 | 200. | 362.204 | 181.1 | 85-115 |
| *1-Chlorooctadecane | 13.555 | 200. | 354.367 | 177.18 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP418r, Second Source ;1204HP4 , 15000 ug per mL
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0014.RAW
Date & Time Acquired: 12/4/2020 8:34:17 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.734 | 200. | 69.715 | 34.86 | - |
| *1-Chlorooctadecane | 13.542 | 200. | 144.942 | 72.47 | - |

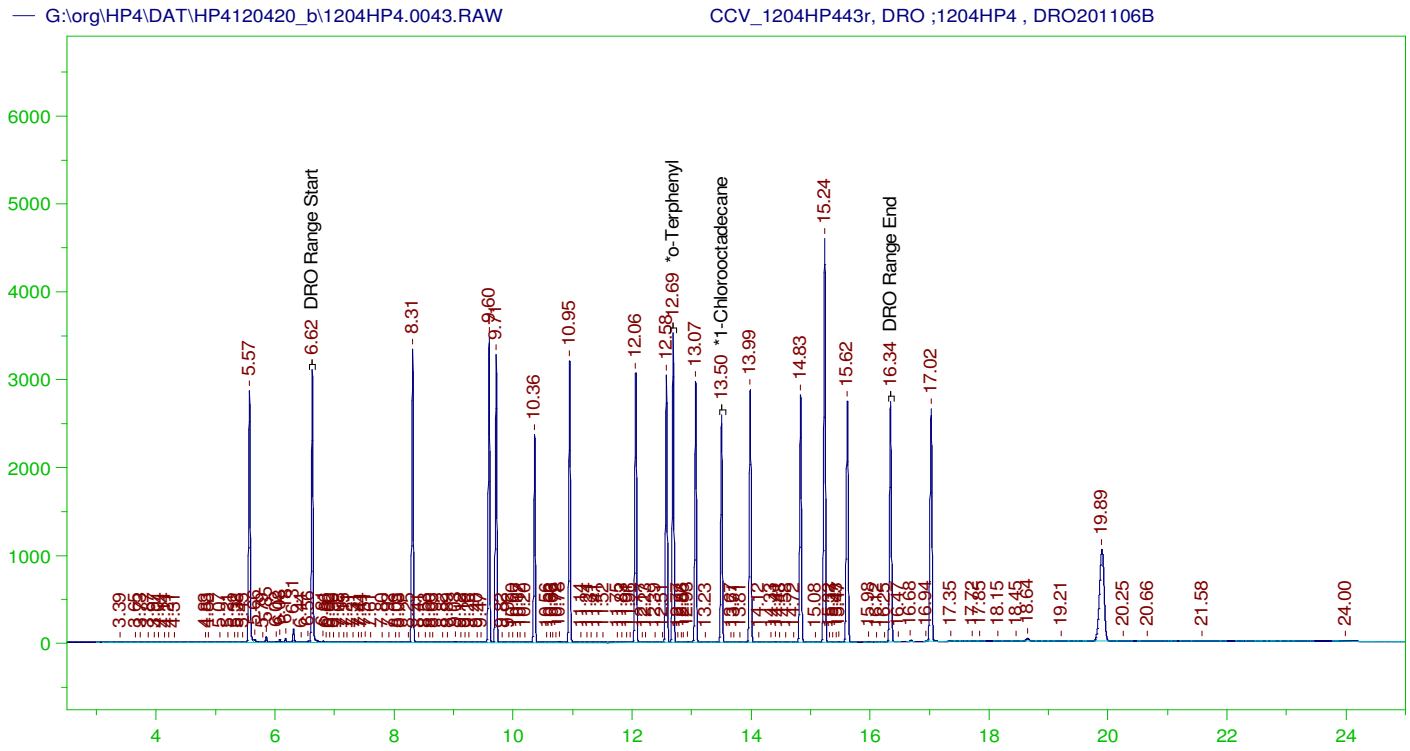
DRO Area:4.031359E+08 DRO Amount: 15487.63
TEH Area:4.261363E+08 TEH Amount: 16371.25

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16371.25 | 109.14 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.734 | 200. | 69.715 | 34.86 | 85-115 |
| *1-Chlorooctadecane | 13.542 | 200. | 144.942 | 72.47 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\014_CCV_1204HP418r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP443r, DRO ;1204HP4 , DRO201106B
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0043.RAW
Date & Time Acquired: 12/5/2020 6:02:34 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.691 | 200. | 200.852 | 100.43 | - |
| *1-Chlorooctadecane | 13.503 | 200. | 159.448 | 79.72 | - |

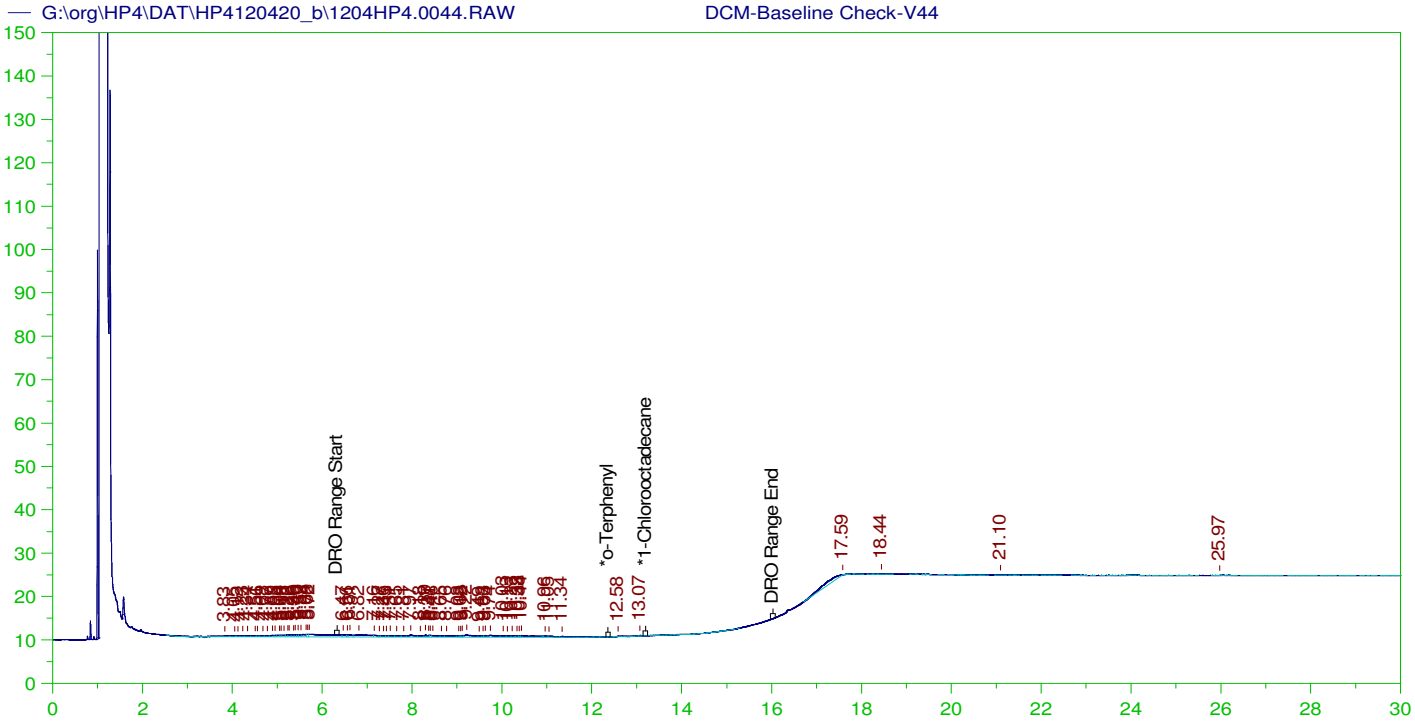
DRO Area:8.211237E+07 DRO Amount: 3154.583
TEH Area:1.000372E+08 TEH Amount: 3843.216

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0043.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3843.22 | 25.62 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.691 | 200. | 200.852 | 100.43 | 85-115 |
| *1-Chlorooctadecane | 13.503 | 200. | 159.448 | 79.72 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\043_CCV_1204HP443r_DC_8015-MA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

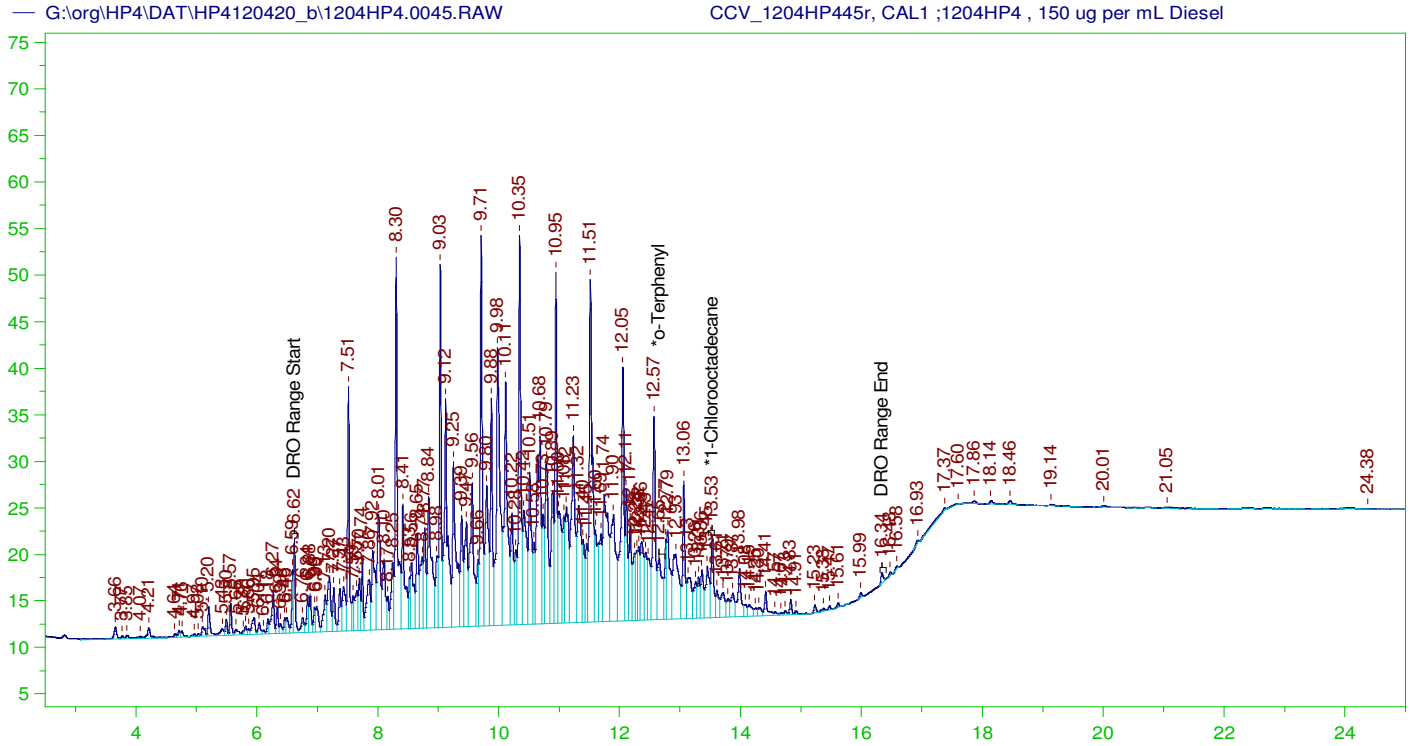
Sample Name: DCM-Baseline Check-V44
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0044.RAW
Date & Time Acquired: 12/5/2020 6:47:23 PM
Method File: G:\Org\HP4\Methods\DR_8015-LV-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO200127LV.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26131.15
Rt range for Diesel Range Organics: 6.275 to 16.08

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.902 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.902 | 200. | . | . | - |

DRO Area:83801.18 DRO Amount: 3.206945
TEH Area:173265 TEH Amount: 6.630591

G:\org\HP4\dat\HP4120420_b\Review\044_DCM-Baseline Chec_DR_8015-LV-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1204HP445r, CAL1 ;1204HP4 , 150 ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4120420_b\1204HP4.0045.RAW
Date & Time Acquired: 12/5/2020 7:32:16 PM
Method File: G:\Org\HP4\Methods\DC_8015-MA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.58 to 16.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.654 | 200. | 1.165 | .58 | - |
| *1-Chlorooctadecane | 13.532 | 200. | .83 | .42 | - |

DRO Area:3614752 DRO Amount: 138.8711
TEH Area:3738542 TEH Amount: 143.6269

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4120420_b\1204HP4.0045.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 143.63 | .96 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.654 | 200. | 1.165 | .58 | 85-115 |
| *1-Chlorooctadecane | 13.532 | 200. | .83 | .42 | 85-115 |

G:\org\HP4\dat\HP4120420_b\Review\045_CCV_1204HP445r_DC_8015-MA-L%.xls

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selected)<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| :\org\HP4\DAT\HP4120420_b\1204HP4.01r | DCM-Baseline Check-V01 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.02r | CCV_1204HP402r, DRO ;1204HP4 , DRO201106B | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.03r | DCM-Baseline Check-V03 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.04r | CCV_1204HP404r, CAL1 ;1204HP4 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.63 and slightly after the surrogate peak at 13.23 and scaling showing surrogate peak from 11.5-14. |
| :\org\HP4\DAT\HP4120420_b\1204HP4.05r | CCV_1204HP405r, CAL2 ;1204HP4 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.63 and slightly after the surrogate peak at 13.23 and scaling showing surrogate peak from 11.5-14. |
| :\org\HP4\DAT\HP4120420_b\1204HP4.06r | CCV_1204HP406r, CAL3 ;1204HP4 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.63 and slightly after the surrogate peak at 13.23 and scaling showing surrogate peak from 11.5-14. |
| :\org\HP4\DAT\HP4120420_b\1204HP4.07r | CCV_1204HP407r, CAL4 ;1204HP4 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.63 and slightly after the surrogate peak at 13.23 and scaling showing surrogate peak from 11.5-14. |
| :\org\HP4\DAT\HP4120420_b\1204HP4.08r | CCV_1204HP408r, CAL5 ;1204HP4 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO20420B + 750 DCM(13285) | G:\Org\HP4\Methods\DS_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.63 and slightly after the surrogate peak at 13.23 and scaling showing surrogate peak from 11.5-14. |
| :\org\HP4\DAT\HP4120420_b\1204HP4.10r | CCV_1204HP410r, CAL2 ;1204HP4 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| :\org\HP4\DAT\HP4120420_b\1204HP4.11r | CCV_1204HP411r, CAL3 ;1204HP4 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| :\org\HP4\DAT\HP4120420_b\1204HP4.12r | CCV_1204HP412r, CAL4 ;1204HP4 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| :\org\HP4\DAT\HP4120420_b\1204HP4.13r | CCV_1204HP413r, CAL5 ;1204HP4 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| :\org\HP4\DAT\HP4120420_b\1204HP4.14r | CCV_1204HP418r, Second Source ;1204HP4 , 15000 ug per mL (100uL of DRO191002A + 900uL DCM(13285) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| :\org\HP4\DAT\HP4120420_b\1204HP4.42r | DCM-Baseline Check-V42 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.43r | CCV_1204HP443r, DRO ;1204HP4 , DRO201106B | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.44r | DCM-Baseline Check-V44 | G:\Org\HP4\Methods\DR_8015-LV-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| :\org\HP4\DAT\HP4120420_b\1204HP4.45r | CCV_1204HP445r, CAL1 ;1204HP4 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13285), then 100 uL of that + 100 uL of DCM (13285)) | G:\Org\HP4\Methods\DC_8015-MA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.19 15:43:42 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*13-Oct-21*

**Run ID** GCFID-HP4-B_211006B

**Run Start Date:** 10/6/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** 8015C Oil Range

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL-OIL | 8/31/2025 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In DCM | | | | | Second Sou | 9/1/2026 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764069 | CCV_1006HP41 | HC-8015-DRO- | CAL1 | | 10/7/2021 12:16: | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1652093 | | 0.15 | 0 | 0 | 0 | 0.3 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764070 | CCV_1006HP41 | HC-8015-DRO- | CAL2 | | 10/7/2021 1:47:3 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.022149 | | 1 | 0 | 0 | 0 | 0.3 | 0 | 102% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764071 | CCV_1006HP41 | HC-8015-DRO- | CAL3 | | 10/7/2021 3:19:0 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.956371 | | 5 | 0 | 0 | 0 | 0.3 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764072 | CCV_1006HP41 | HC-8015-DRO- | CAL4 | | 10/7/2021 4:50:1 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764072 | CCV_1006HP41 | HC-8015-DRO- | CAL4 | | 10/7/2021 4:50:1 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.79833 | | 15 | 0 | 0 | 0 | 0.3 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764073 | CCV_1006HP42 | HC-8015-DRO- | CAL5 | | 10/7/2021 6:21:2 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 29.29968 | | 30 | 0 | 0 | 0 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14764074 | CCV_1006HP42 | HC-8015-DRO- | ICV | | 10/7/2021 9:21:4 | 1 | R368535 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.390338 | | 5 | 0 | 0 | 0 | 0.3 | 0 | 108% | 80 | 120 | 0% | |

Write Sequence

Insert Entries(Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP4\DAT\HP4100621_b\1006HP4.11r | CCV_1006HP411r, CSCAN ;1006HP4 , DRO210708A | g:\org\HP4\Methods\CSC211006.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.12r | DCM-Baseline Check-V12 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.13r | CCV_1006HP413r, CAL1 ;1006HP4 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-13-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.14r | DCM-Baseline Check-V14 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.15r | CCV_1006HP415r, CAL2 ;1006HP4 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-15-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.16r | DCM-Baseline Check-V16 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.17r | CCV_1006HP417r, CAL3 ;1006HP4 , 5000 ug per mL Oil (200 uL of Cal 4 + 400 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.18r | DCM-Baseline Check-V18 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.19r | CCV_1006HP419r, CAL4 ;1006HP4 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-19-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.20r | DCM-Baseline Check-V20 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.21r | CCV_1006HP423r, CAL5 ;1006HP4 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM)(14354) | G:\Org\HP4\methods\DR_8015-21-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.22r | DCM-Baseline Check-V22 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.23r | DCM-Baseline Check-V23 | G:\Org\HP4\methods\D3_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.24r | DCM-Baseline Check-V24 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.25r | CCV_1006HP425r, Second Source ;1006HP4 , 5000 ug per mL Oil (100 uL of DRO210902A + 900 uL of DCM) | G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Version: 7

Creator: AMN
Description: 8015C-DRO. New ICal Per 1106HP4 (2021)-2 uL Inj.; Oil Range-OTP/COD was copied from 8015 Diesel calibration
Reason for change:

External standard calibration

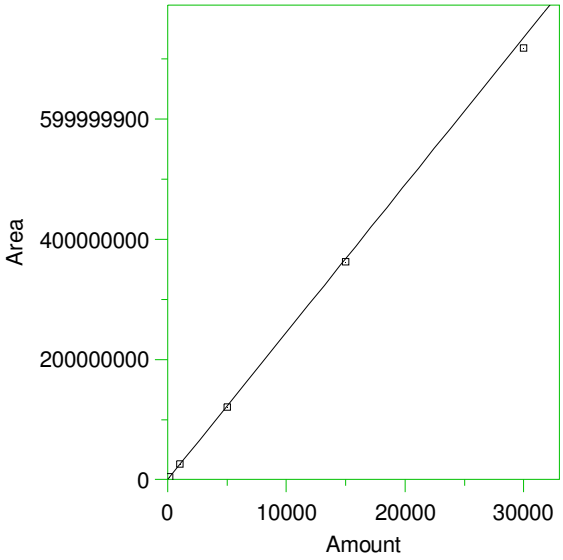
| | |
|---|---|
| Standard injection volume: | 1 |
| Standard sample weight: | 1 |
| Area reject threshold: | 500 |
| Reference peak area reject threshold: | 500 |
| Amount units: | nanograms |

No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




Expected retention time: 6.14 minutes
Search window: 0.05 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

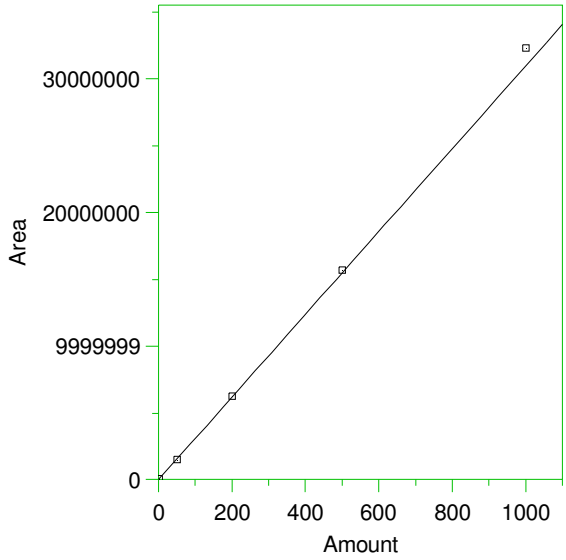
Single peak quantification by area

Y = 24529.56 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9990484
Average error: 1.972%
Average CF: 24529.56
RSD: 2.304%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3765836 | 25105.57 | 2.348 | Manual | 10/12/2021 8:17:21 AM |
| 2 | 1000 | 2.516261E+07 | 25162.61 | 2.581 | Manual | 10/12/2021 8:17:24 AM |
| 3 | 5000 | 1.213971E+08 | 24279.42 | -1.020 | Manual | 10/12/2021 8:17:44 AM |
| 4 | 15000 | 3.623479E+08 | 24156.53 | -1.521 | Manual | 10/12/2021 8:17:41 AM |
| 5 | 30000 | 7.183105E+08 | 23943.68 | -2.388 | Manual | 10/12/2021 8:17:38 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.15 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

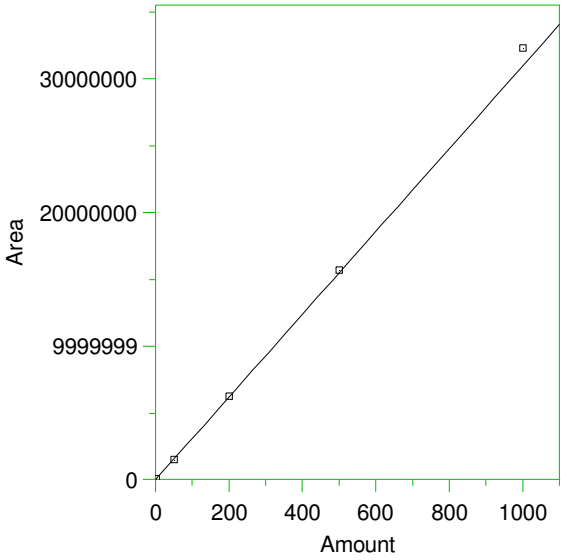
Y = 30968.61 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9973109 |
| Average error: | 2.879% |
| Average CF: | 30968.61 |
| RSD: | 3.508% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 59594.86 | 29797.43 | -3.782 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0004.BND | 12/7/2020 10:27:32 AM |
| 2 | 50 | 1495522 | 29910.44 | -3.417 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0005.BND | 12/7/2020 10:27:37 AM |
| 3 | 200 | 6283151 | 31415.76 | 1.444 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0006.BND | 12/7/2020 10:28:12 AM |
| 4 | 500 | 1.569503E+07 | 31390.06 | 1.361 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0007.BND | 12/7/2020 10:28:17 AM |
| 5 | 1000 | 3.232935E+07 | 32329.35 | 4.394 | G:\Org\HP4\DAT\HP4120420_b\1204HP4.0008.BND | 12/7/2020 10:28:22 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.99 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

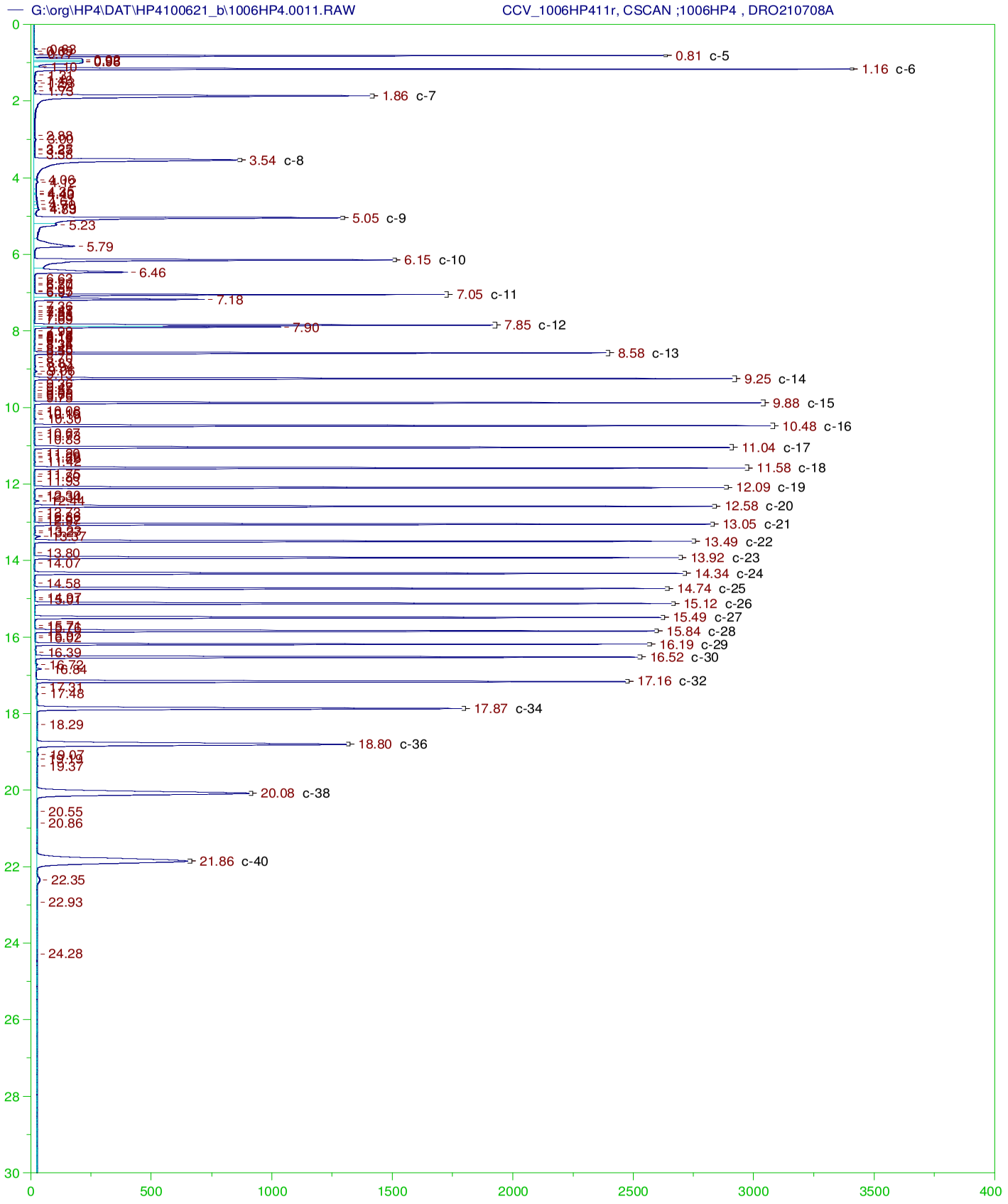
Single peak quantification by area

Y = 30968.61 X + 0

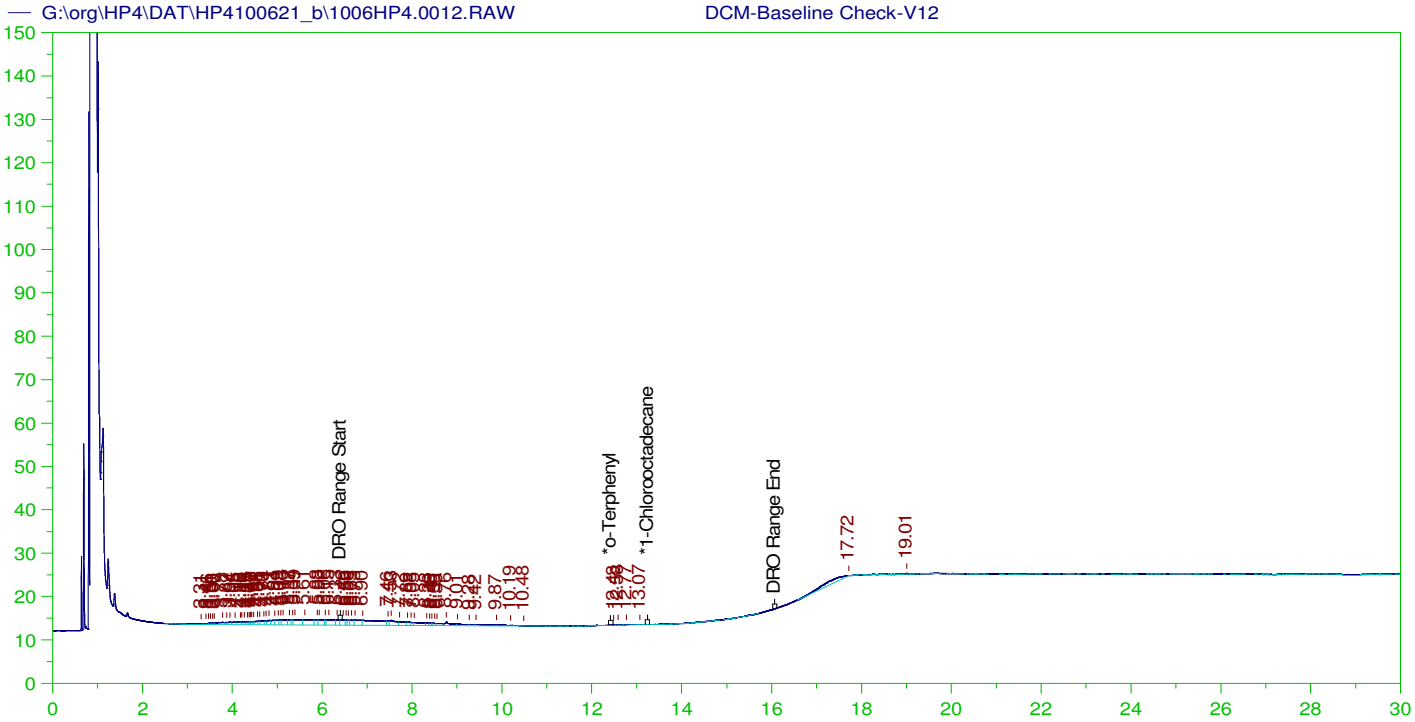
Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9973109 |
| Average error: | 2.879% |
| Average CF: | 30968.61 |
| RSD: | 3.508% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 59594.86 | 29797.43 | -3.782 | Manual | 12/7/2020 10:28:30 AM |
| 2 | 50 | 1495522 | 29910.44 | -3.417 | Manual | 12/7/2020 10:28:35 AM |
| 3 | 200 | 6283151 | 31415.76 | 1.444 | Manual | 12/7/2020 10:28:37 AM |
| 4 | 500 | 1.569503E+07 | 31390.06 | 1.361 | Manual | 12/7/2020 10:28:53 AM |
| 5 | 1000 | 3.232935E+07 | 32329.35 | 4.394 | Manual | 12/7/2020 10:28:55 AM |




G:\org\HP4\dat\HP4100621_b\Review\011_CCV_1006HP411r_CSC211006.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

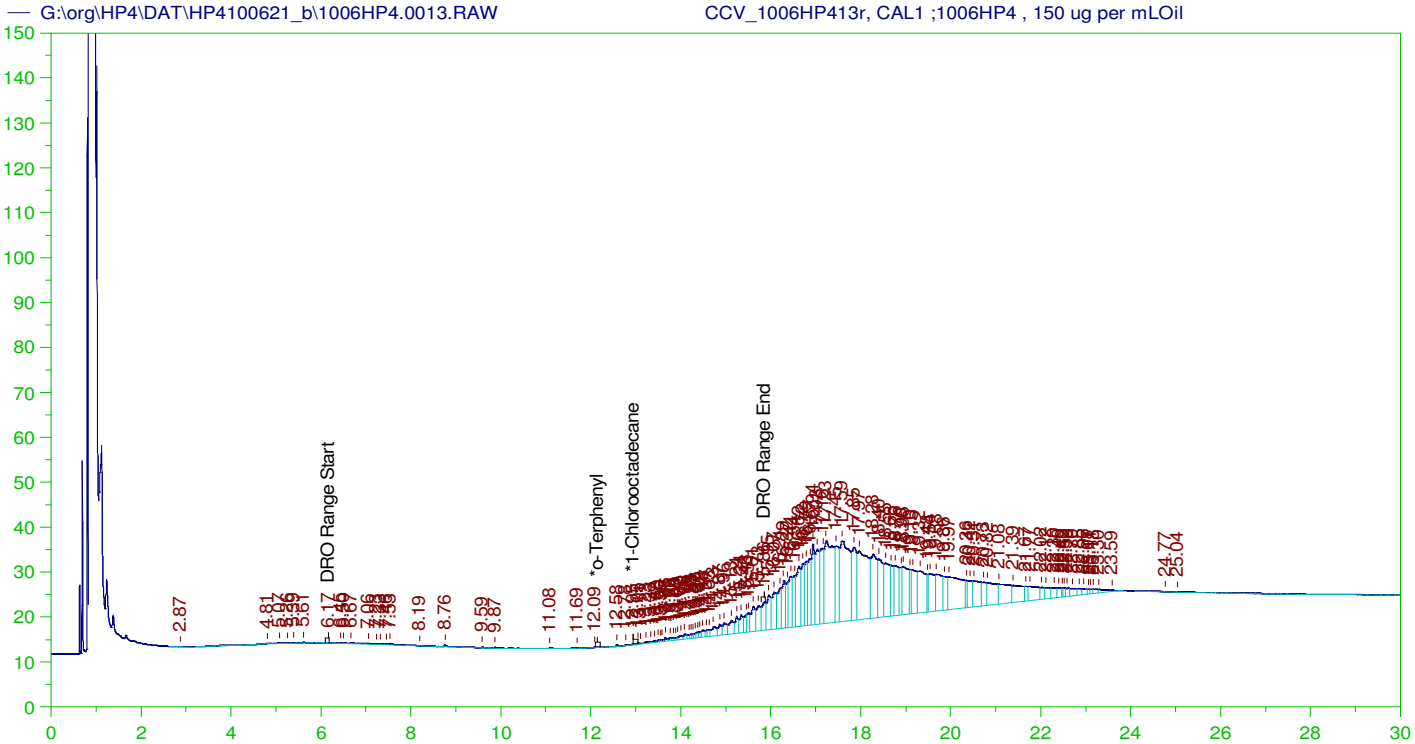
Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0012.RAW
Date & Time Acquired: 10/6/2021 11:30:37 PM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.914 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.914 | 200. | . | . | - |

DRO Area:151604.2 DRO Amount: 5.824311
TEH Area:344150.3 TEH Amount: 13.22152

G:\org\HP4\dat\HP4100621_b\Review\012_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP413r, CAL1 ;1006HP4 , 150 ug per mLOil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0013.RAW
Date & Time Acquired: 10/7/2021 12:16:08 AM
Method File: G:\Org\HP4\methods\DR_8015-13-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 29.973 | 200. | . | . - |
| *1-Chlorooctadecane | 12.946 | 200. | .024 | .01 - |

DRO Area:350454.1 DRO Amount: 14.28701
TEH (OiL Range) Area:4052512 TEH (Oil Range)Amount: 165.2093

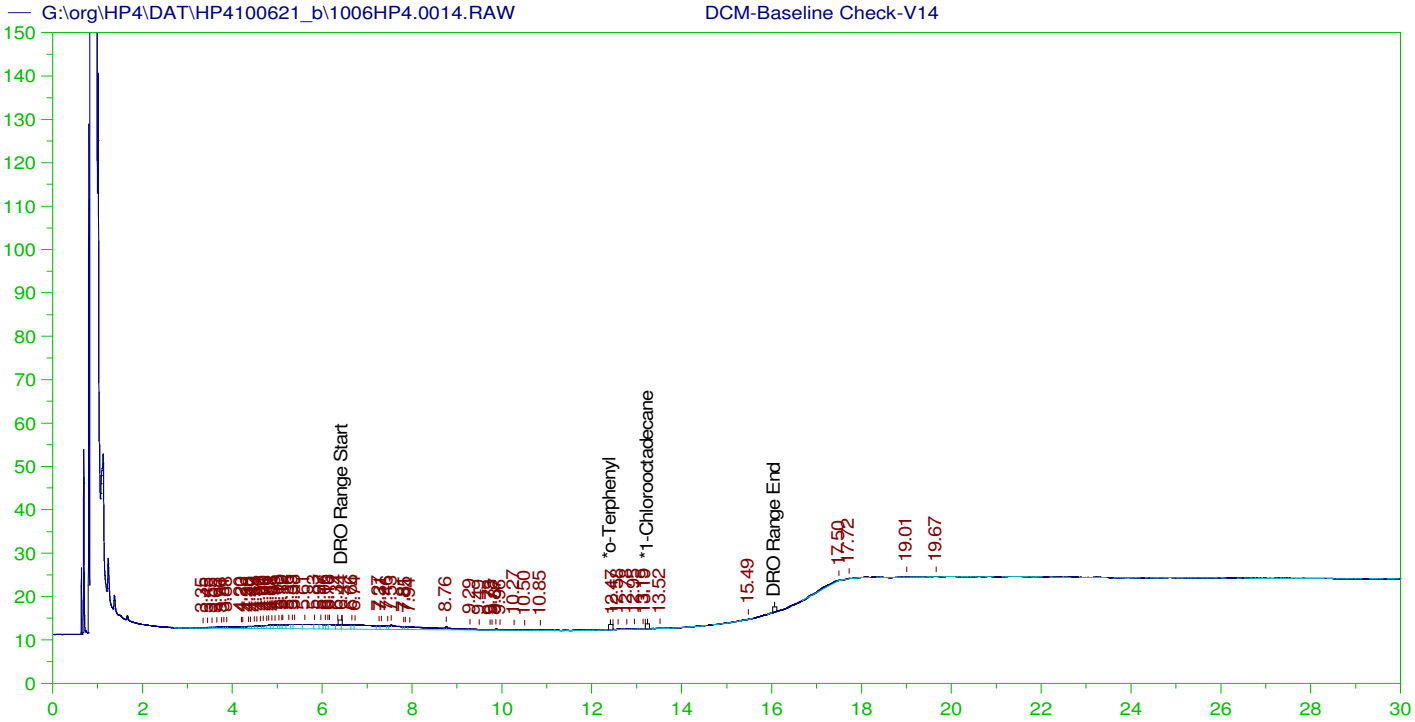
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 165.21 | 3.3 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.973 | 200. | . | . | 85-115 |
| *1-Chlorooctadecane | 12.946 | 200. | .024 | .01 | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\013_CCV_1006HP413r_DR_8015-13-OIL-AA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

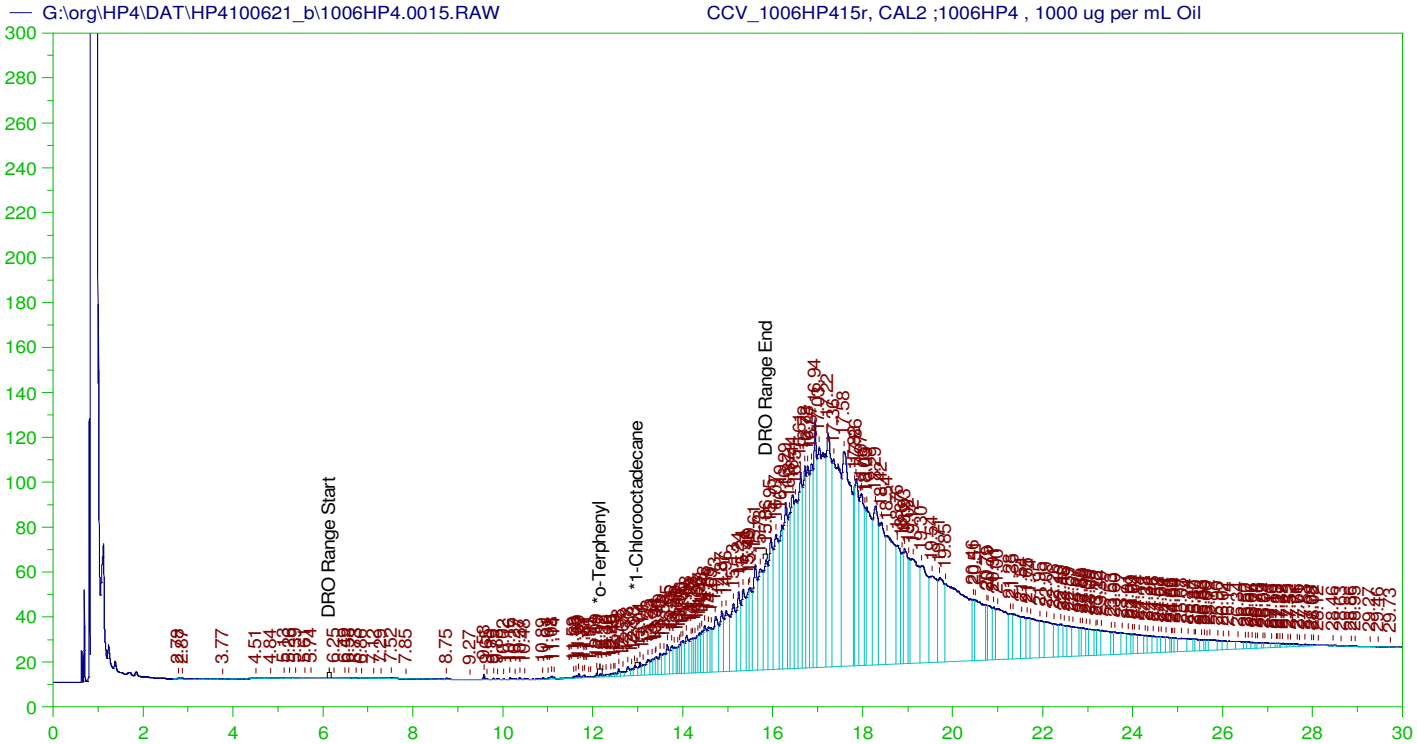
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0014.RAW
Date & Time Acquired: 10/7/2021 1:01:51 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.884 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.884 | 200. | . | . | - |

DRO Area:131624.4 DRO Amount: 5.056731
TEH Area:277425.9 TEH Amount: 10.65811

G:\org\HP4\dat\HP4100621_b\Review\014_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP415r, CAL2 ;1006HP4 , 1000 ug per mL Oil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0015.RAW
Date & Time Acquired: 10/7/2021 1:47:37 AM
Method File: G:\Org\HP4\methods\DR_8015-15-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | 200. | .147 | .07 | - |
| *1-Chlorooctadecane | 29.932 | 200. | . | . | - |

DRO Area:3765940 DRO Amount: 153.5266
TEH (Oil Range) Area:2.507288E+07 TEH (Oil Range)Amount: 1022.149

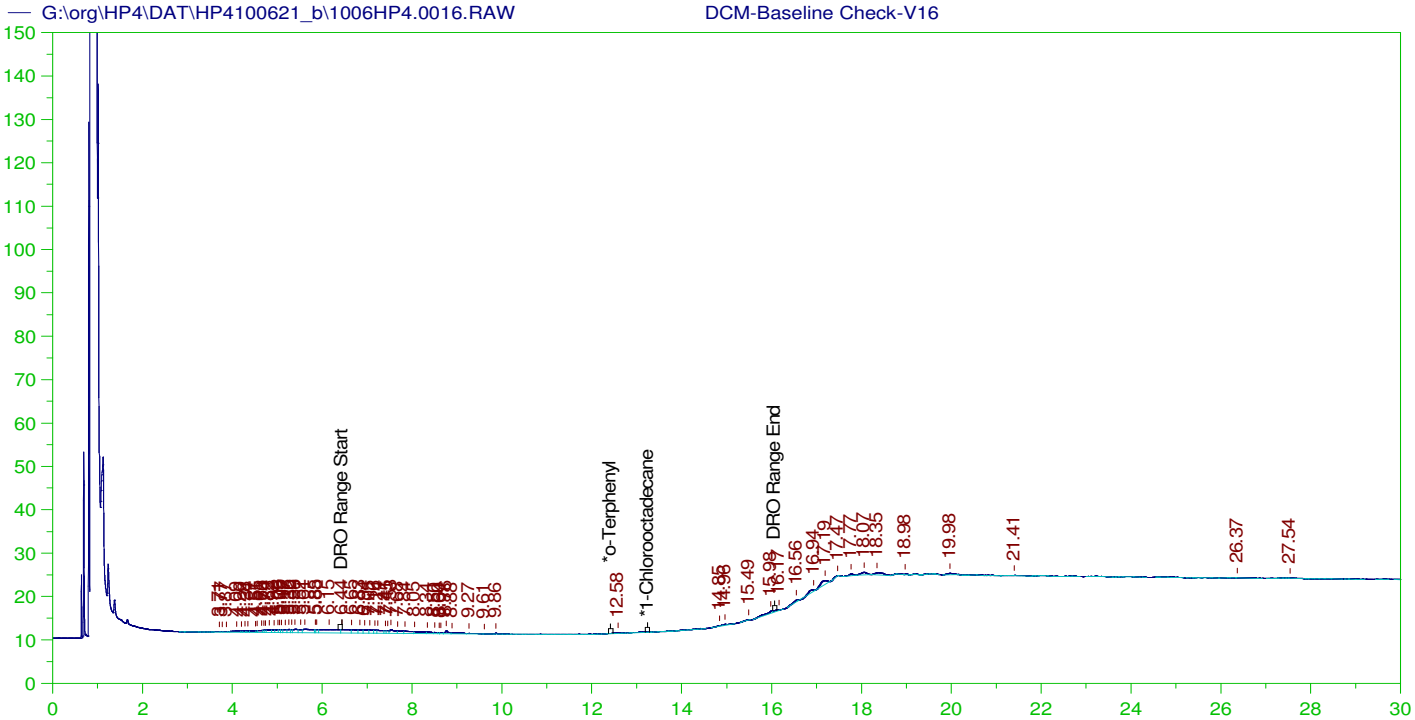
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1022.15 | 20.44 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | 200. | .147 | .07 | 85-115 |
| *1-Chlorooctadecane | 29.932 | 200. | . | . | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\015_CCV_1006HP415r_DR_8015-15-OIL-AA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

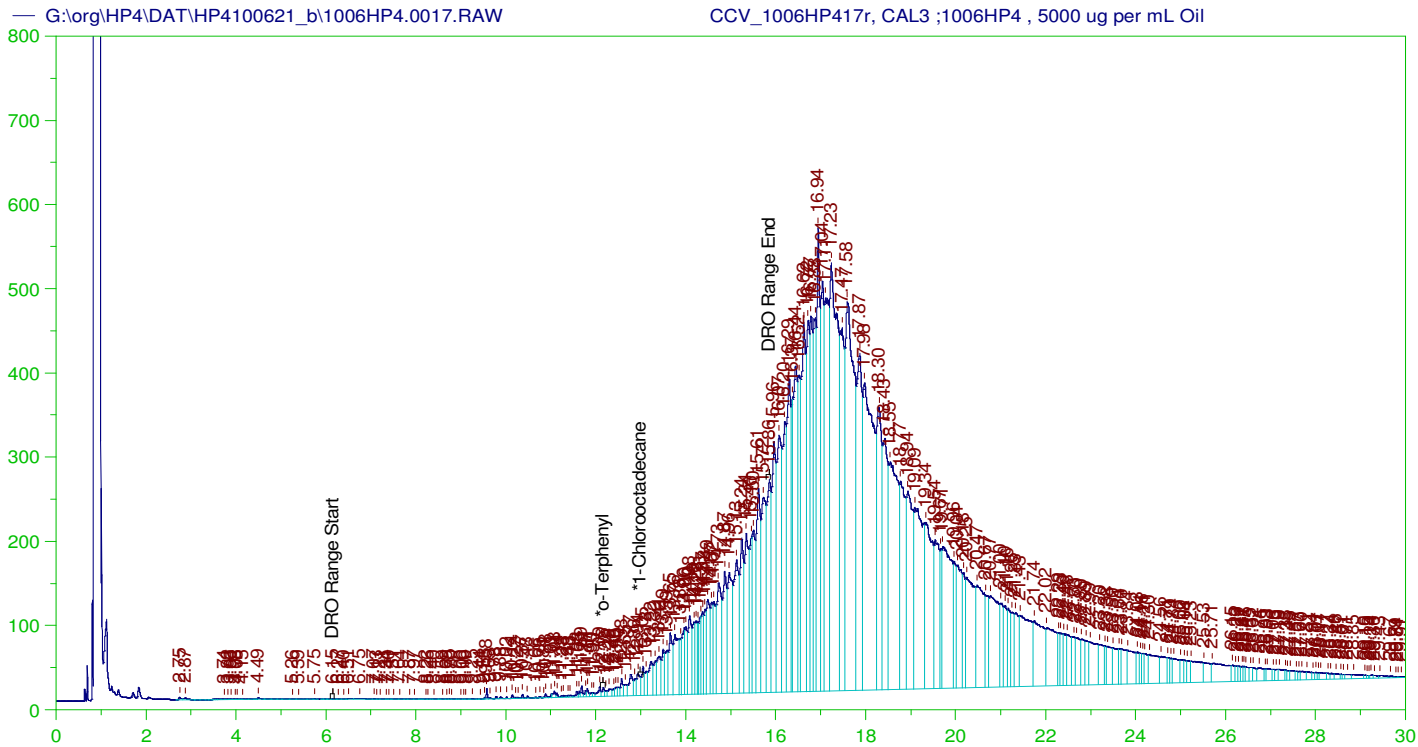
Sample Name: DCM-Baseline Check-V16
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0016.RAW
Date & Time Acquired: 10/7/2021 2:33:20 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.907 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.907 | 200. | . | . | - |

DRO Area:114216.7 DRO Amount: 4.387964
TEH Area:265335.9 TEH Amount: 10.19364

G:\org\HP4\dat\HP4100621_b\Review\016_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP417r, CAL3 ;1006HP4 , 5000 ug per mL Oil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0017.RAW
Date & Time Acquired: 10/7/2021 3:19:06 AM
Method File: G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.165 | 200. | 1.127 | .56 | - |
| *1-Chlorooctadecane | 29.907 | 200. | . | . | - |

DRO Area:2.051403E+07 DRO Amount: 836.2982
TEH (Oil Range) Area:1.215776E+08 TEH (Oil Range) Amount: 4956.371

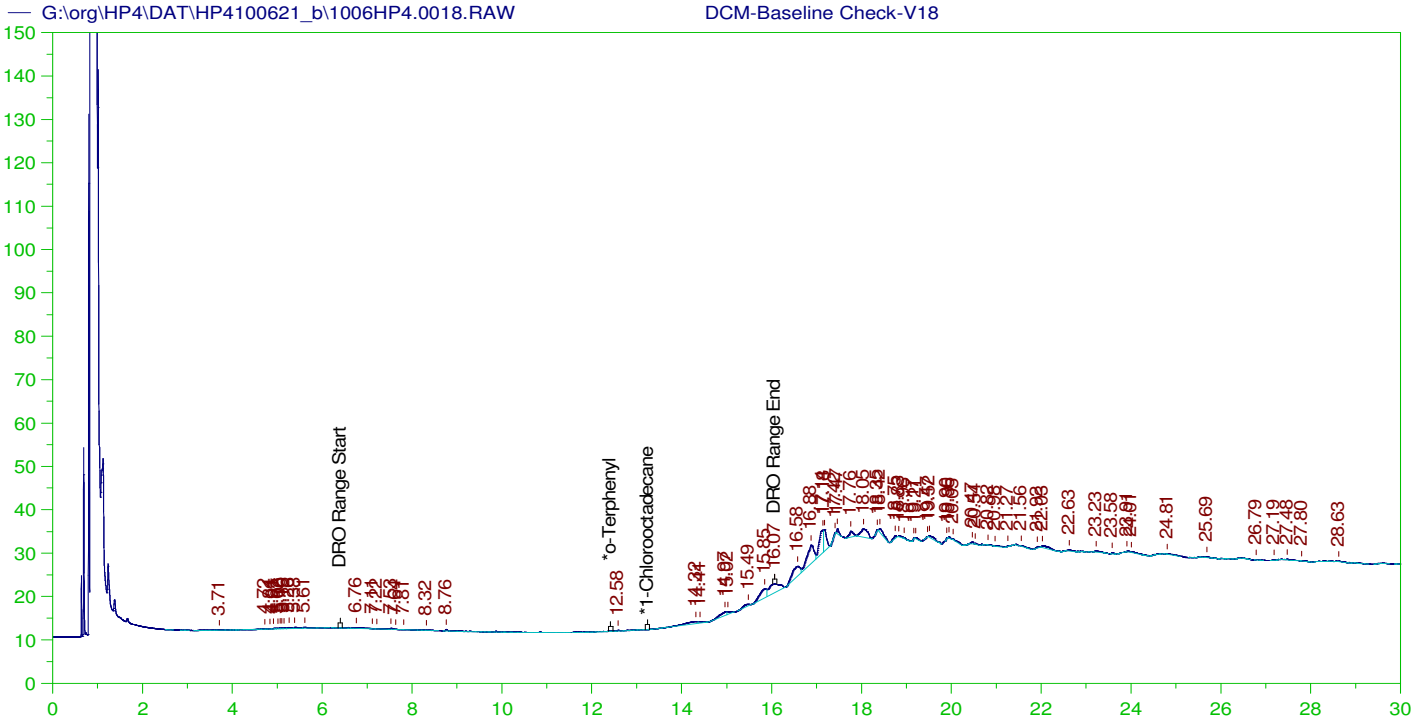
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0017.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4956.37 | 99.13 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.165 | 200. | 1.127 | .56 | 85-115 |
| *1-Chlorooctadecane | 29.907 | 200. | . | . | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\017_CCV_1006HP417r_DR_8015-17-OIL-AA-L%.xls



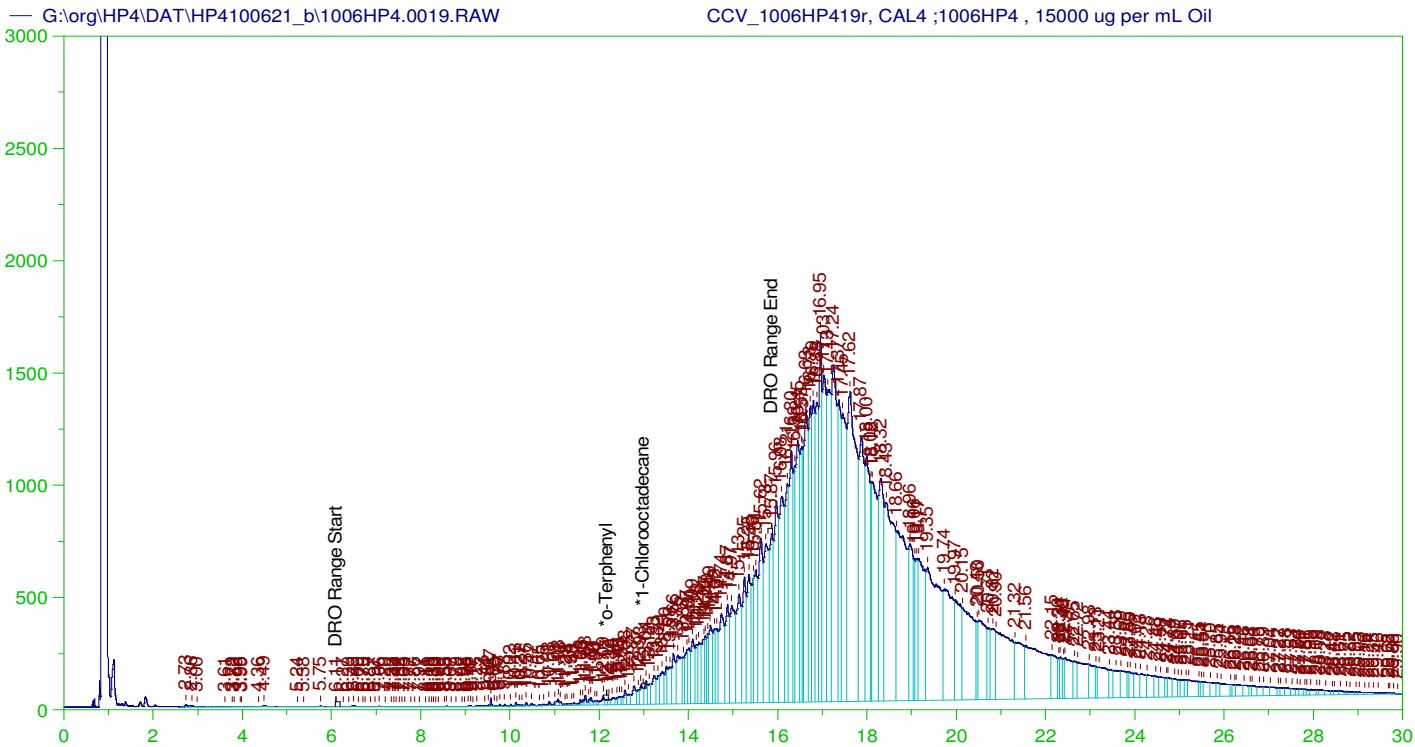

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V18
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0018.RAW
Date & Time Acquired: 10/7/2021 4:04:45 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.931 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.931 | 200. | . | . | - |

DRO Area:108588.8 DRO Amount: 4.171752
TEH Area:364372 TEH Amount: 13.9984




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP419r, CAL4 ;1006HP4 , 15000 ug per mL Oil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0019.RAW
Date & Time Acquired: 10/7/2021 4:50:17 AM
Method File: G:\Org\HP4\methods\DR_8015-19-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | 200. | 2.668 | 1.33 | - |
| *1-Chlorooctadecane | 29.898 | 200. | . | . | - |

DRO Area:6.321696E+07 DRO Amount: 2577.175
TEH (Oil Range) Area:3.629964E+08 TEH (Oil Range) Amount: 14798.33

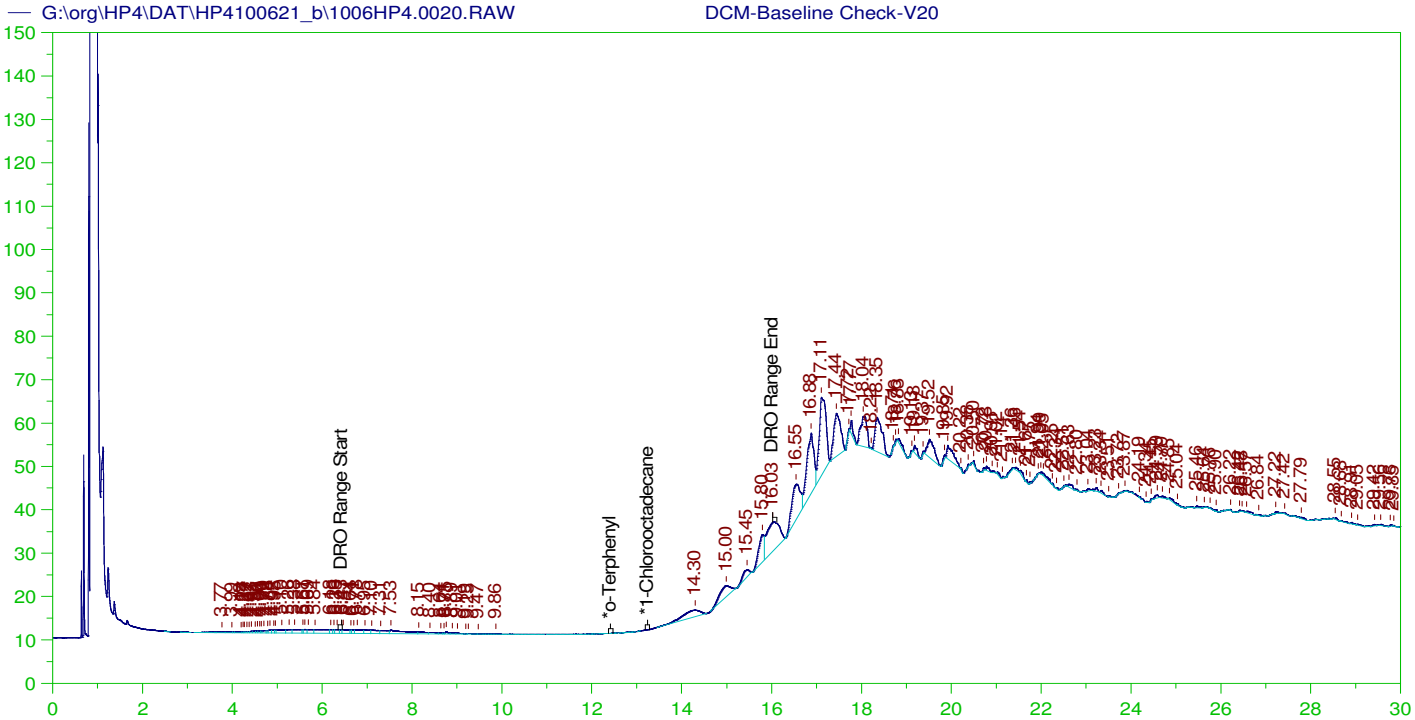
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14798.33 | 295.97 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | 200. | 2.668 | 1.33 | 85-115 |
| *1-Chlorooctadecane | 29.898 | 200. | . | . | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\019_CCV_1006HP419r_DR_8015-19-OIL-AA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

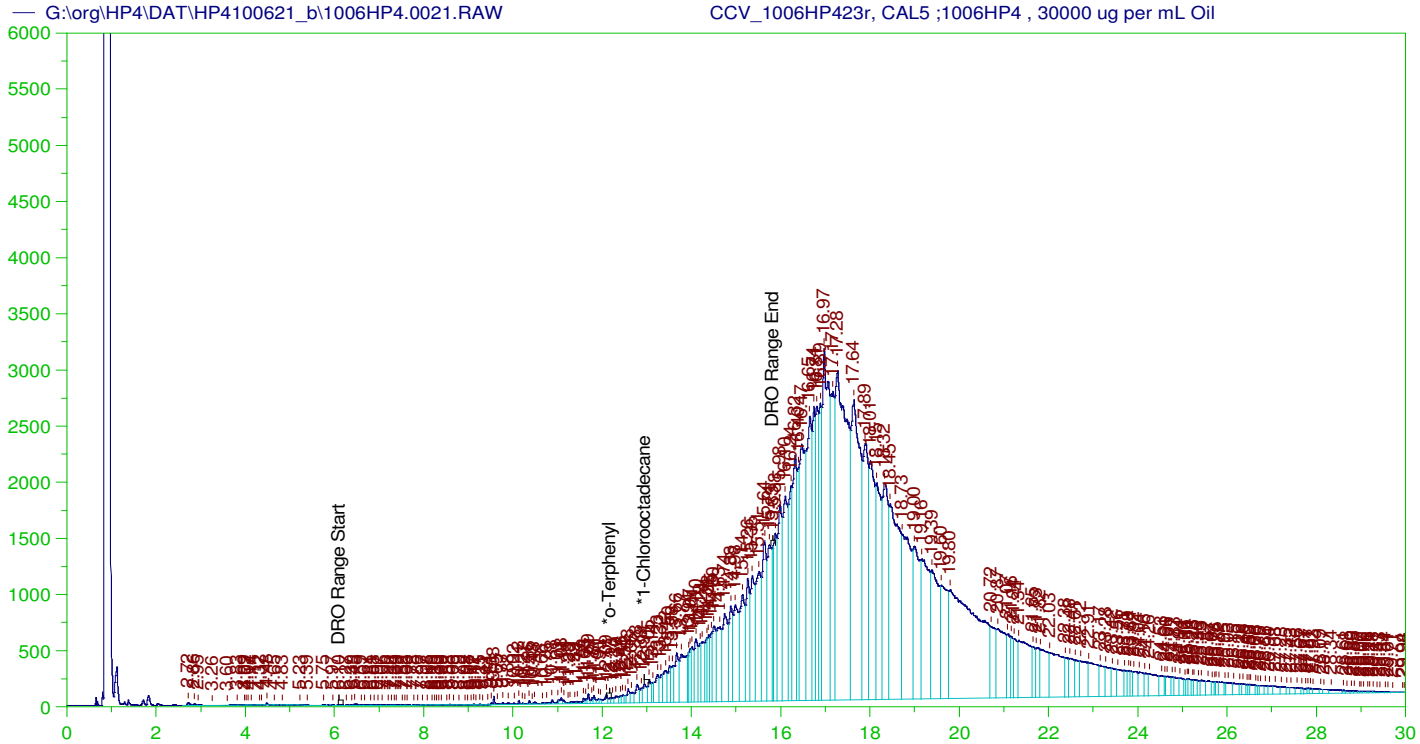
Sample Name: DCM-Baseline Check-V20
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0020.RAW
Date & Time Acquired: 10/7/2021 5:35:48 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.983 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.983 | 200. | . | . | - |

DRO Area:396511 DRO Amount: 15.23311
TEH Area:1438866 TEH Amount: 55.27819

G:\org\HP4\dat\HP4100621_b\Review\020_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP423r, CAL5 ;1006HP4 , 30000 ug per mL Oil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0021.RAW
Date & Time Acquired: 10/7/2021 6:21:29 AM
Method File: G:\Org\HP4\methods\DR_8015-21-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | 5.119 | 2.56 | - |
| *1-Chlorooctadecane | 12.944 | 200. | 32.459 | 16.23 | - |

DRO Area:1.18208E+08 DRO Amount: 4819.003
TEH (Oil Range) Area:7.187084E+08 TEH (Oil Range) Amount: 29299.68

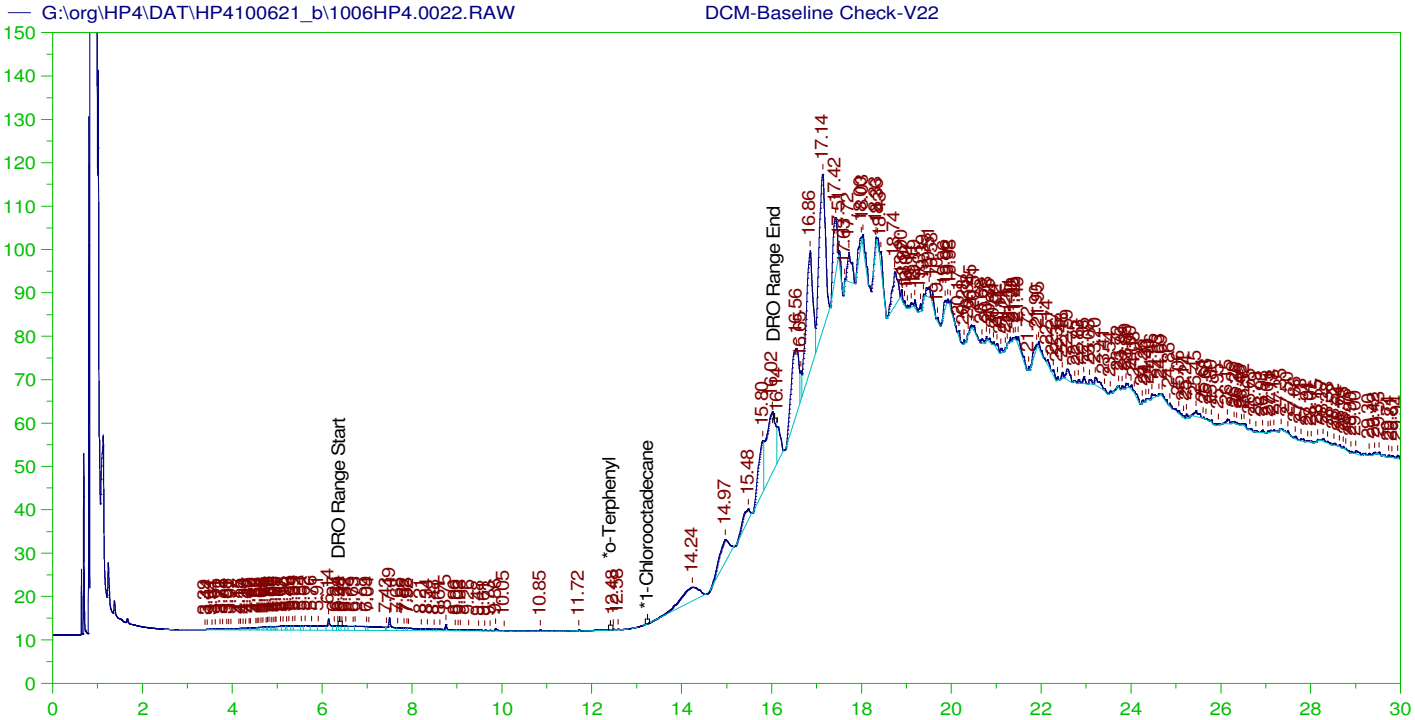
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0021.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 29299.68 | 585.99 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | 5.119 | 2.56 | 85-115 |
| *1-Chlorooctadecane | 12.944 | 200. | 32.459 | 16.23 | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\021_CCV_1006HP423r_DR_8015-21-OIL-AA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

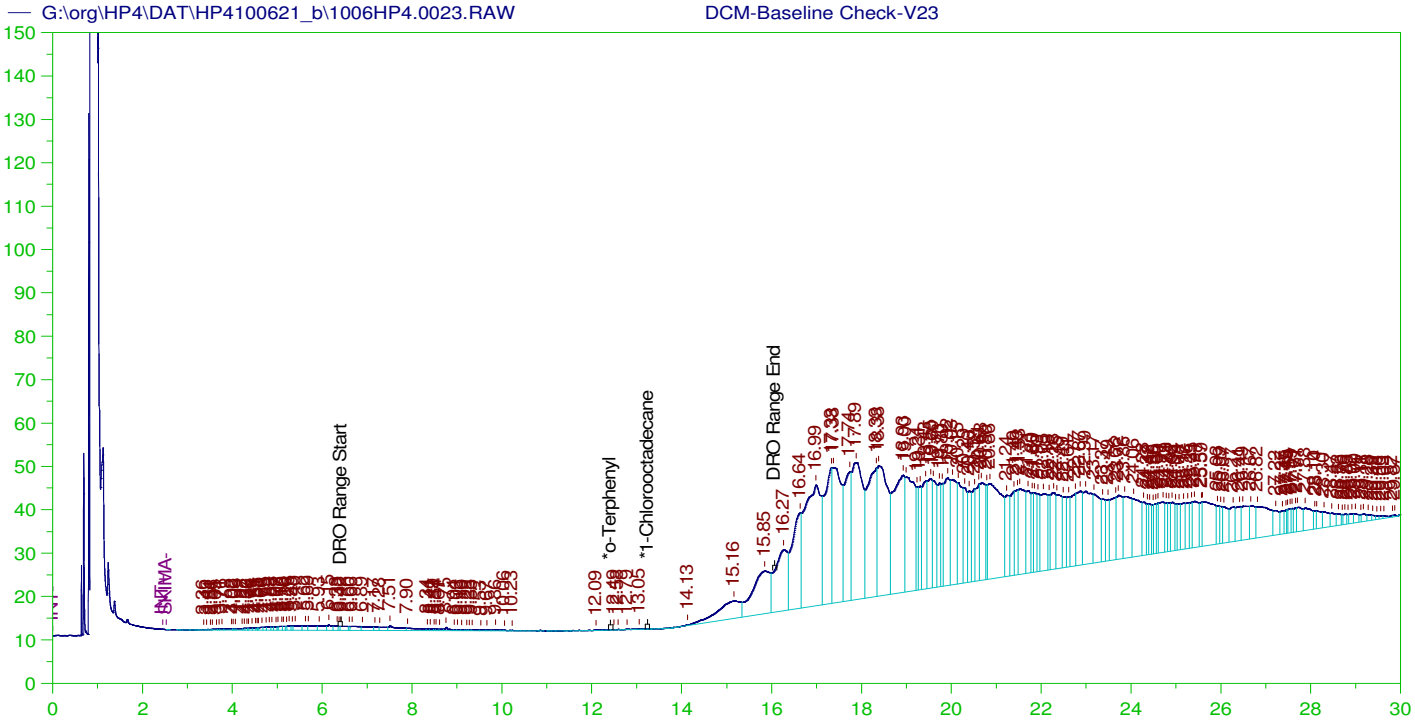
Sample Name: DCM-Baseline Check-V22
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0022.RAW
Date & Time Acquired: 10/7/2021 7:06:39 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.94 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.94 | 200. | . | . | - |

DRO Area:659389.9 DRO Amount: 25.33236
TEH Area:2246216 TEH Amount: 86.29485

G:\org\HP4\dat\HP4100621_b\Review\022_DCM-Baseline Chec_DR_8015-MX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V23
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0023.RAW
Date & Time Acquired: 10/7/2021 7:51:25 AM
Method File: G:\Org\HP4\methods\D3_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.979 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | - |

DRO Area:556661.1 DRO Amount: 21.38574
TEH Area:1.320998E+07 TEH Amount: 507.4994

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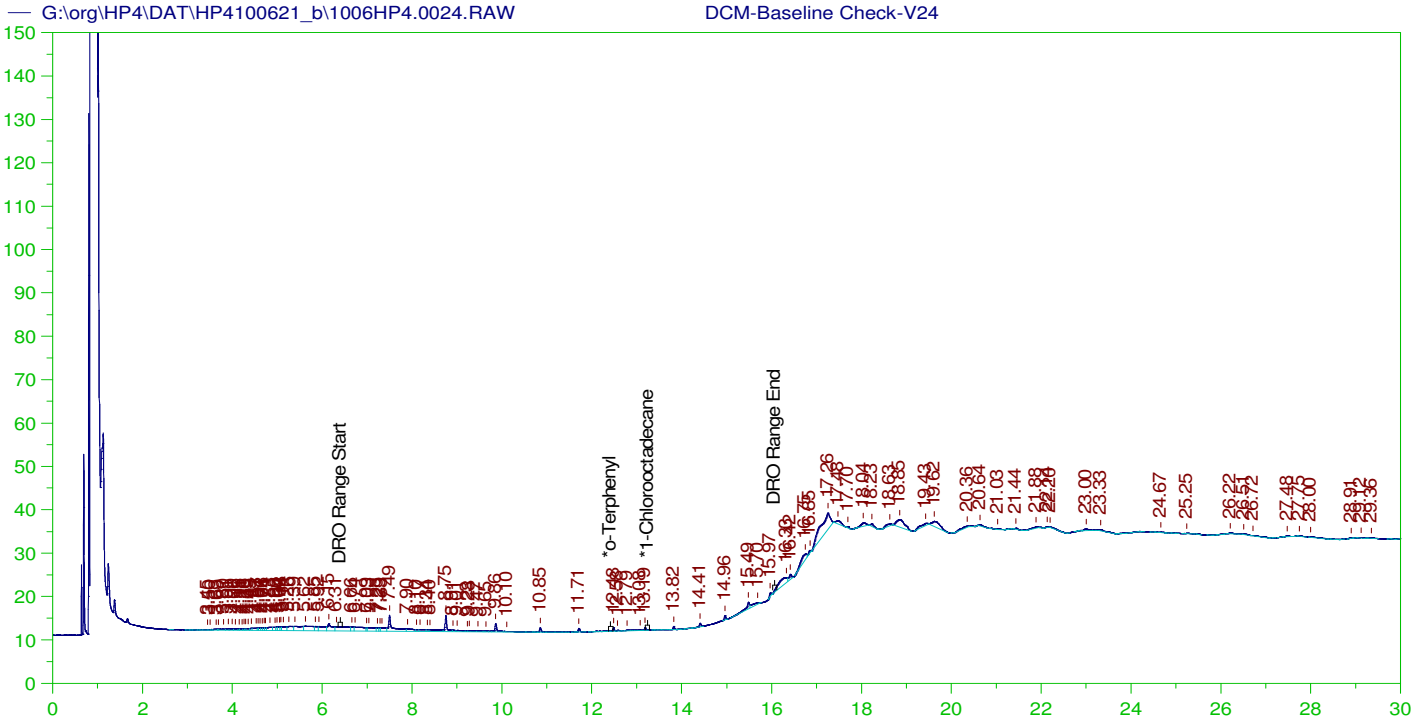


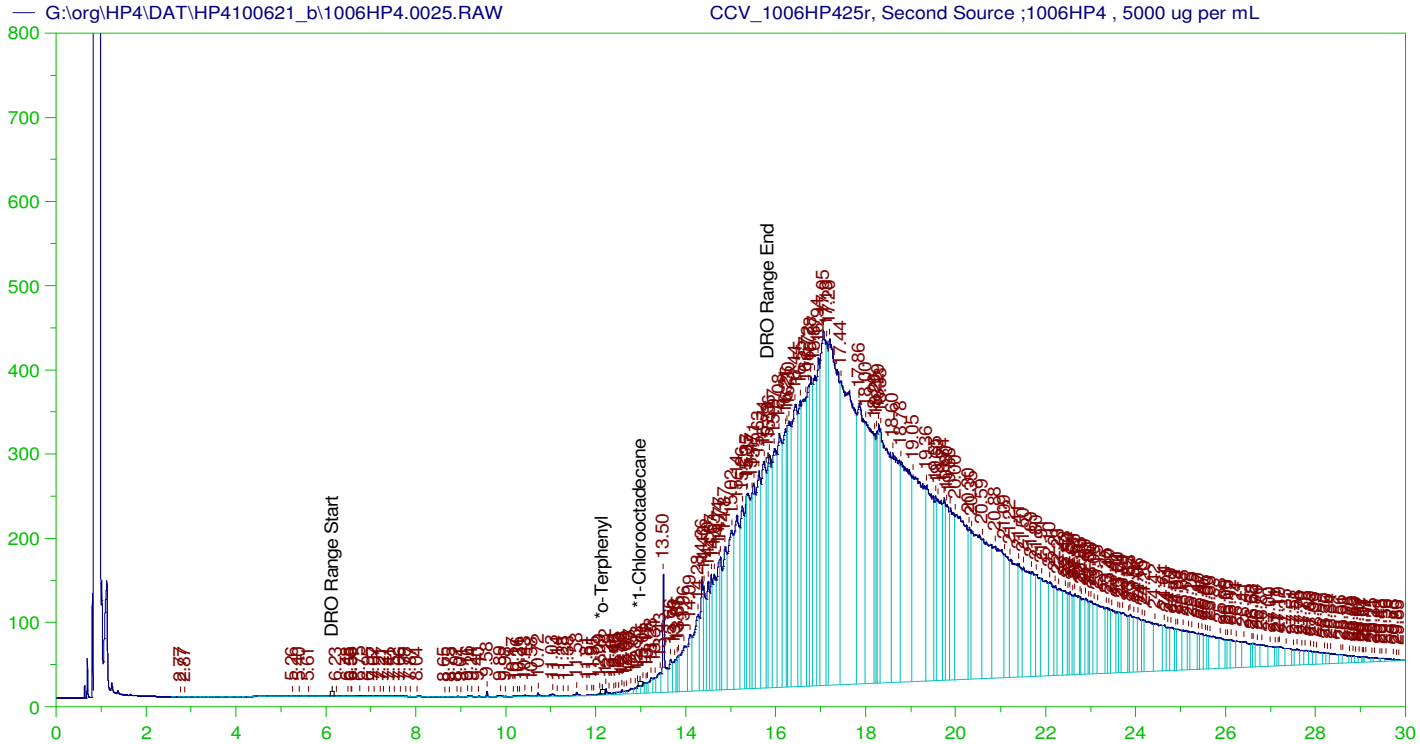

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V24
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0024.RAW
Date & Time Acquired: 10/7/2021 8:36:35 AM
Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.35 to 16.12

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.993 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.993 | 200. | . | . | - |

DRO Area:143991.1 DRO Amount: 5.531833
TEH Area:496648.4 TEH Amount: 19.08018




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1006HP425r, Second Source ;1006HP4 , 5000 ug per mL
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0025.RAW
Date & Time Acquired: 10/7/2021 9:21:40 AM
Method File: G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.09 to 15.88

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.852 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.852 | 200. | . | . | - |

DRO Area:2.19787E+07 DRO Amount: 896.0085
TEH (Oil Range) Area:1.322226E+08 TEH (Oil Range) Amount: 5390.338

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0025.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5390.34 | 107.81 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC | LIMITS |
|---|---|---|---|---|---|---|
| *o-Terphenyl | 29.852 | 200. | . | . | | 85-115 |
| *1-Chlorooctadecane | 29.852 | 200. | . | . | | 85-115 |

AMN 10/13/2021

G:\org\HP4\dat\HP4100621_b\Review\025_CCV_1006HP425r_DR_8015-17-OIL-AA-L%.xls

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | **Manual Integrations** |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP4\DAT\HP4100621_b\1006HP4.11r | CCV_1006HP411r, CSCAN ;1006HP4 , DRO210708A | g:\org\HP4\Methods\CSC211006.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.12r | DCM-Baseline Check-V12 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.13r | CCV_1006HP413r, CAL1 ;1006HP4 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-13-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Set Baseline Now at 23.18 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.14r | DCM-Baseline Check-V14 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.15r | CCV_1006HP415r, CAL2 ;1006HP4 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-15-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Set Baseline Now at 28 .22 |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.16r | DCM-Baseline Check-V16 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.17r | CCV_1006HP417r, CAL3 ;1006HP4 , 5000 ug per mL Oil (200 uL of Cal 4 + 400 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.18r | DCM-Baseline Check-V18 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.19r | CCV_1006HP419r, CAL4 ;1006HP4 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(14354) | G:\Org\HP4\methods\DR_8015-19-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.20r | DCM-Baseline Check-V20 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.21r | CCV_1006HP423r, CAL5 ;1006HP4 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM)(14354) | G:\Org\HP4\methods\DR_8015-21-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.22r | DCM-Baseline Check-V22 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.23r | DCM-Baseline Check-V23 | G:\Org\HP4\methods\D3_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.24r | DCM-Baseline Check-V24 | G:\Org\HP4\methods\DR_8015-MX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP4\DAT\HP4100621_b\1006HP4.25r | CCV_1006HP425r, Second Source ;1006HP4 , 5000 ug per mL Oil (100 uL of DRO210902A + 900 uL of DCM) | G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.19 15:43:56 -06:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/18/2021 4:05:33 P**

Prep Batch **160450** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/20/2021 10:01:00 A**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MB-160450 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/18/2021 | 10/19/2021 |
| Start time: 4:05 PM, 10/18/2021. End time: 10/19/2021 at 10:25 AM. SGT was carried out on the remaining 0.9 mL of sample by AMN on 10/20/2021 | | | | | | | | | | |
| LCS-160450 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/18/2021 | 10/19/2021 |
| SGT was carried out on the remaining 0.9 mL of sample by AMN on 10/20/2021 | | | | | | | | | | |
| LCS-160450-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/18/2021 | 10/19/2021 |
| All bottles were completely used and disposed of. SGT was carried out on the remaining 0.9 mL of sample by AMN on 10/20/2021 | | | | | | | | | | |
| B21101295-001A | Ground Water | 2 | 1030 | 0 | 0 | 1.00 | 0.000971 | | 10/18/2021 | 10/19/2021 |
| Bottle 1/4. Clear. SGT was carried out on the remaining 0.9 mL of sample by AMN on 10/20/2021 | | | | | | | | | | |
| B21101295-001AMS | Ground Water | 2 | 960 | 0 | 0 | 1.00 | 0.00104 | | 10/18/2021 | 10/19/2021 |
| Bottle 2/4. Clear. SGT was carried out on the remaining 0.9 mL of sample by AMN on 10/20/2021 | | | | | | | | | | |
| B21101295-001AMS-RRO | Ground Water | 2 | 1020 | 0 | 0 | 1.00 | 0.00098 | | 10/18/2021 | 10/19/2021 |
| Bottle 3/4. Clear. SGT was carried out on the remaining 0.9 mL of sample by AMN on 10/20/2021 | | | | | | | | | | |
| B21101279-001B | Ground Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000957 | | 10/18/2021 | 10/19/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21101291-001B | Ground Water | 2 | 990 | 0 | 0 | 1.00 | 0.00101 | | 10/18/2021 | 10/19/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21101297-001B | Ground Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/18/2021 | 10/19/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21101306-001Ax | Ground Water | 2 | 1000 | 0 | 0 | 1.00 | 0.000957 | | 10/18/2021 | 10/19/2021 |
| Bottle 1/2. Clear, light sediment. Did not cycle correctly. Need re-extract. | | | | | | | | | | |
| B21101306-002A | Ground Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/18/2021 | 10/19/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on the remaining 0.9 mL of sample by AMN on 10/20/2021 | | | | | | | | | | |
| B21101306-003A | Ground Water | 2 | 1030 | 0 | 0 | 1.00 | 0.000971 | | 10/18/2021 | 10/19/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on the remaining 0.9 mL of sample by AMN on 10/20/2021 | | | | | | | | | | |
| B21101306-004A | Ground Water | 2 | 1030 | 0 | 0 | 1.00 | 0.000971 | | 10/18/2021 | 10/19/2021 |
| Bottle 1/2. Clear, light sediment. SGT was carried out on the remaining 0.8 mL of sample by AMN on 10/21/2021 | | | | | | | | | | |
| LCSD-160450 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/18/2021 | 10/19/2021 |
| SGT was carried out on the remaining 0.9 mL of sample by AMN on 10/20/2021 | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14372 | Dichloromethane EC210 | 8/10/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO211012J | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211013 14051 | DCM RINSED FILTER PAPER | all | 1 | 4/6/2026 |
| Sulfate 10/17/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| DRO211012B | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |
| SG211004(13376) | Baked Silica Gel | SGT samples | 5 g | 2/28/2030 |

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/18/2021 4:05:33 P**

Prep Batch **160450** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/20/2021 10:01:00 A**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| LCSD-160450-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/18/2021 | 10/19/2021 |
| SGT was carried out on the remaining 0.9 mL of sample by AMN on 10/20/2021 | | | | | | | | | | |
| B21101306-001A | Ground Water | 2 | 1020 | 0 | 0 | 1.00 | 0.00098 | | 10/19/2021 | 10/20/2021 |
| Bottle 2/2. Clear, light sediment. Lines 16-19 Start time: 11:35 AM, 10/19/2021. End time: 10/20/2021 at 6:40 AM. SGT was carried out on the remaining 0.8 mL of sample by AMN on 10/21/2021 | | | | | | | | | | |
| B21101306-005A | Ground Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/19/2021 | 10/20/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21101306-006A | Drinking Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000943 | | 10/19/2021 | 10/20/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |
| B21101306-007A | Drinking Water | 2 | 1020 | 0 | 0 | 1.00 | 0.00098 | | 10/19/2021 | 10/20/2021 |
| Bottle 1/2. Clear. | | | | | | | | | | |

| Number | Reagent Name | Exp Date | A |
|---|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 | |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 | |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 | |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 | |
| 14372 | Dichloromethane EC210 | 8/10/2023 | |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| DRO211012J | OTP/COD SURR 2000 ug/mL | All | 100 uL | 9/30/2024 |
| FP211013 14051 | DCM RINSED FILTER PAPER | all | 1 | 4/6/2026 |
| Sulfate 10/17/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| DRO211012B | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |
| SG211004(13376) | Baked Silica Gel | SGT samples | 5 g | 2/28/2030 |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Oct-21*

**Run ID** GCFID-HP4-B_211019A

**Run Start Date:** 10/19/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015 CAL information is in Index GCFID-HP4-B_201204B.DRO-8015-Oil CAL information is in Index GCFID-HP4-B_211006B.

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | C40-MARK | 3/5/2028 |
| DRO211012C | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-RRO | 9/30/2024 |
| DRO211012I | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211019A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787683 | Marker_1019HP | HC-8015-DRO- | SAMP | | 10/19/2021 1:22: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.481874 | | 0 | 0 | 0 | 0.0358 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.08118 | | 0 | 0 | 0 | 0.0782 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2083369 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 104% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.481874 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787684 | CCV_1019HP40 | HC-8015-DRO- | CCV | | 10/19/2021 2:07: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.021669 | | 5 | 0 | 0 | 0.0513 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2190473 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787685 | CCV_1019HP40 | HC-8015-DRO- | CCV | | 10/19/2021 2:51: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.55855 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 110% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 17.15184 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 114% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2279395 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 114% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787686 | LCS-160450 | HC-8015-DRO- | LCS-DOD | | 10/19/2021 4:21: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 13.8628 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 92% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 14.84175 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 99% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1918353 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 96% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787687 | LCSD-160450 | HC-8015-DRO- | LCSD-DOD | | 10/19/2021 5:06: | 1 | 160450 | 10/18/2021 | 0 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.46769 | | 15 | 0 | 13.8628 | 0.0358 | 0.3 | 0 | 96% | 36 | 132 | 4% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.51682 | | 15 | 0 | 14.84175 | 0.0782 | 0.3 | 50 | 103% | 60 | 132 | 4% | |
| o-Terphenyl | S | mg/L | | 0.2035904 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787688 | MB-160450 | HC-8015-DRO- | MBLK | | 10/19/2021 5:52: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0358 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0513 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0782 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1898618 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 95% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787689 | B21101295-001 | HC-8015-DRO- | SAMP | | 10/19/2021 6:37: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787689 | B21101295-001 | HC-8015-DRO- | SAMP | | 10/19/2021 6:37: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0347618 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0498123 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0759322 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1764987 | | 0.1942 | 0 | 0 | 0.0005156 | 0.002 | 0 | 91% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787690 | B21101295-001 | HC-8015-DRO- | MS-DOD | | 10/19/2021 7:22: | 1 | 160450 | 10/18/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 13.42801 | | 15.6 | 0 | 0 | 0.037232 | 0.312 | 0 | 86% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 14.33497 | | 15.6 | 0 | 0 | 0.081328 | 0.312 | 50 | 92% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1919913 | | 0.208 | 0 | 0 | 0.0005522 | 0.00208 | 0 | 92% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787691 | B21101295-001 | HC-8015-DRO- | MS-DOD | | 10/19/2021 8:08: | 1 | 160450 | 10/18/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.822092 | | 4.9 | 0 | 0 | 0.050274 | 0.3 | 0 | 98% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1943922 | | 0.196 | 0 | 0 | 0.0005204 | 0.002 | 0 | 99% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787692 | LCS-160450-RR | HC-8015-DRO- | LCS-DOD | | 10/19/2021 9:38: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.502641 | | 5 | 0 | 0 | 0.0513 | 0.3 | 0 | 90% | 41 | 113 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1818164 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 91% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787693 | LCSD-160450-R | HC-8015-DRO- | LCSD-DOD | | 10/19/2021 11:0 | 1 | 160450 | 10/18/2021 | 0 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.699585 | | 5 | 0 | 4.502641 | 0.0513 | 0.3 | 0 | 94% | 41 | 113 | 4% | |
| o-Terphenyl | S | mg/L | | 0.190324 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 95% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787694 | Marker_1019HP | HC-8015-DRO- | SAMP | | 10/20/2021 12:4 | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.557085 | | 0 | 0 | 0 | 0.0358 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.194394 | | 0 | 0 | 0 | 0.0782 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2140781 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 107% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.557085 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787695 | CCV_1019HP41 | HC-8015-DRO- | CCV | | 10/20/2021 1:25: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.922119 | | 5 | 0 | 0 | 0.0513 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2144788 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787696 | CCV_1019HP42 | HC-8015-DRO- | CCV | | 10/20/2021 2:10: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.20064 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 108% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.76309 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 112% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.223356 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 112% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787697 | B21101279-001 | HC-8015-DRO- | SAMP | | 10/20/2021 3:40: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0342606 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0490941 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0748374 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.2064914 | | 0.1914 | 0 | 0 | 0.0005082 | 0.002 | 0 | 108% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787698 | B21101291-001 | HC-8015-DRO- | SAMP | | 10/20/2021 5:11: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787698 | B21101291-001 | HC-8015-DRO- | SAMP | | 10/20/2021 5:11: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.036158 | 0.303 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.051813 | 0.303 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.078982 | 0.303 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.2054521 | | 0.202 | 0 | 0 | 0.0005363 | 0.00202 | 0 | 102% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787699 | B21101297-001 | HC-8015-DRO- | SAMP | | 10/20/2021 6:41: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0344396 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0493506 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0752284 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1995286 | | 0.1924 | 0 | 0 | 0.0005108 | 0.002 | 0 | 104% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787700 | B21101306-002 | HC-8015-DRO- | SAMP | | 10/20/2021 7:26: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 3.509224 | | 0 | 0 | 0 | 0.0344396 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.42758235 | | 0 | 0 | 0 | 0.0493506 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.082652 | | 0 | 0 | 0 | 0.0752284 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1554921 | | 0.1924 | 0 | 0 | 0.0005108 | 0.002 | 0 | 81% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787701 | B21101306-003 | HC-8015-DRO- | SAMP | | 10/20/2021 8:55: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0347618 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.33088011 | | 0 | 0 | 0 | 0.0498123 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0.5652899 | | 0 | 0 | 0 | 0.0759322 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1688184 | | 0.1942 | 0 | 0 | 0.0005156 | 0.002 | 0 | 87% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787702 | Marker_1019HP | HC-8015-DRO- | SAMP | | 10/20/2021 11:5 | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.902411 | | 0 | 0 | 0 | 0.0358 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.756299 | | 0 | 0 | 0 | 0.0782 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2428594 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 121% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.902411 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787703 | CCV_1019HP43 | HC-8015-DRO- | CCV | | 10/20/2021 12:3 | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.01611 | | 5 | 0 | 0 | 0.0513 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2148278 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 107% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787704 | CCV_1019HP43 | HC-8015-DRO- | CCV | | 10/20/2021 1:24: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.33972 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 102% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.87936 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 106% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2114893 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788492 | Marker_1019HP | HC-8015-DRO- | SAMP | | 10/21/2021 3:46: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.573617 | | 0 | 0 | 0 | 0.0358 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.225852 | | 0 | 0 | 0 | 0.0782 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2159941 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 108% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.573617 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788493 | CCV_1019HP45 | HC-8015-DRO- | CCV | | 10/21/2021 4:31: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788493 | CCV_1019HP45 | HC-8015-DRO- | CCV | | 10/21/2021 4:31: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.057353 | | 5 | 0 | 0 | 0.0513 | 0.3 | 0 | 101% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2166654 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 108% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788494 | CCV_1019HP45 | HC-8015-DRO- | CCV | | 10/21/2021 5:16: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.43615 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 110% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 17.05642 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 114% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2251469 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 113% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788495 | B21101306-005 | HC-8015-DRO- | SAMP | | 10/21/2021 8:03: | 1 | 160450 | 10/19/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0344396 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0493506 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0752284 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.201842 | | 0.1924 | 0 | 0 | 0.0005108 | 0.002 | 0 | 105% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788496 | B21101306-006 | HC-8015-DRO- | SAMP | | 10/21/2021 8:48: | 1 | 160450 | 10/19/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0337594 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0483759 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0737426 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1738225 | | 0.1886 | 0 | 0 | 0.0005007 | 0.002 | 0 | 92% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788497 | B21101306-007 | HC-8015-DRO- | SAMP | | 10/21/2021 9:33: | 1 | 160450 | 10/19/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788497 | B21101306-007 | HC-8015-DRO- | SAMP | | 10/21/2021 9:33: | 1 | 160450 | 10/19/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.035084 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.050274 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.076636 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl | S | mg/L | | 0.1871491 | | 0.196 | 0 | 0 | 0.0005204 | 0.002 | 0 | 95% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788499 | B21101306-004 | HC-8015-DRO- | SAMP | | 10/21/2021 10:1 | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0347618 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0498123 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0.1890156 | | 0 | 0 | 0 | 0.0759322 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| o-Terphenyl | S | mg/L | | 0.1384544 | | 0.1942 | 0 | 0 | 0.0005156 | 0.002 | 0 | 71% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788500 | B21101306-001 | HC-8015-DRO- | SAMP | | 10/21/2021 11:0 | 1 | 160450 | 10/19/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.4233055 | | 0 | 0 | 0 | 0.035084 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.18703550 | | 0 | 0 | 0 | 0.050274 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.6824896 | | 0 | 0 | 0 | 0.076636 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1558876 | | 0.196 | 0 | 0 | 0.0005204 | 0.002 | 0 | 80% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788502 | Marker_1019HP | HC-8015-DRO- | SAMP | | 10/21/2021 12:3 | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.668323 | | 0 | 0 | 0 | 0.0358 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.378995 | | 0 | 0 | 0 | 0.0782 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2238524 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 112% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.668323 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

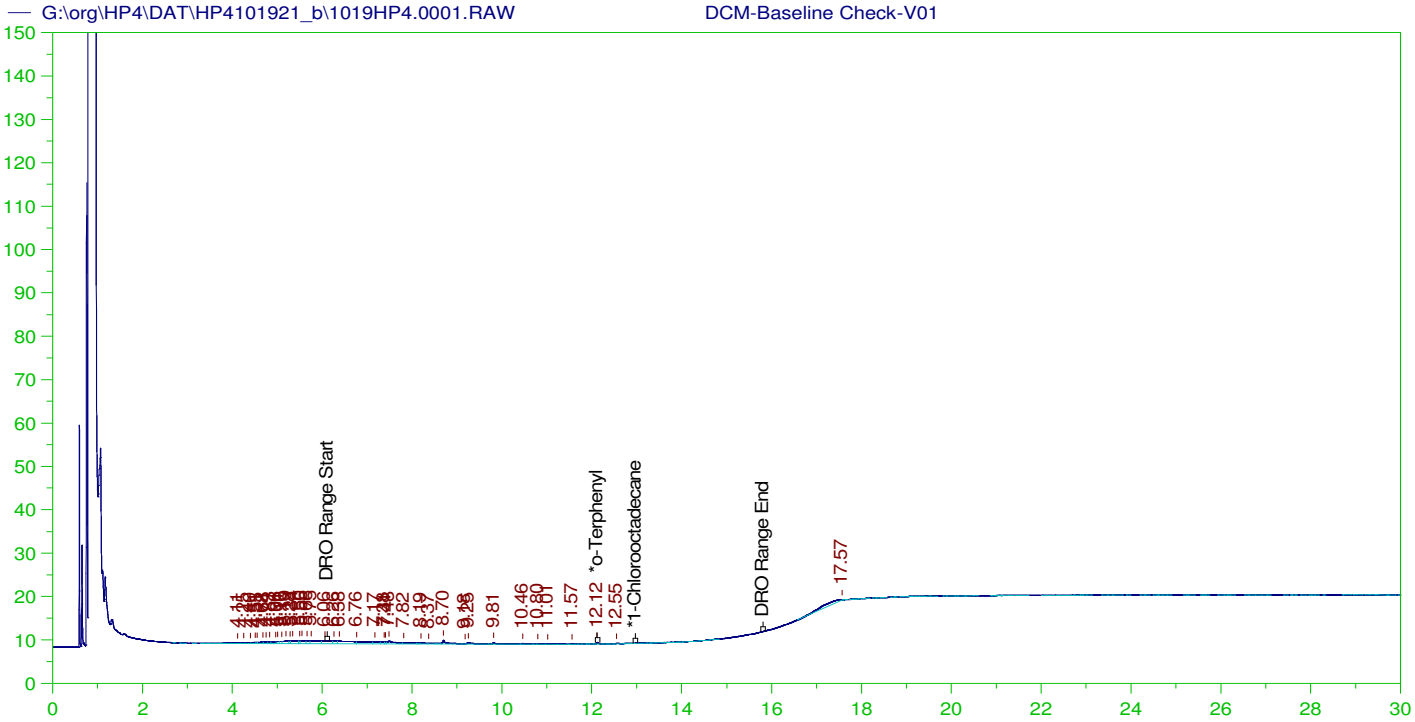
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788503 | CCV_1019HP46 | HC-8015-DRO- | CCV | | 10/21/2021 1:17: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.04431 | | 5 | 0 | 0 | 0.0513 | 0.3 | 0 | 101% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2151174 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 108% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14788504 | CCV_1019HP46 | HC-8015-DRO- | CCV | | 10/21/2021 2:03: | 1 | R369017 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.44208 | | 15 | 0 | 0 | 0.0358 | 0.3 | 0 | 103% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.99904 | | 15 | 0 | 0 | 0.0782 | 0.3 | 50 | 107% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2129305 | | 0.2 | 0 | 0 | 0.000531 | 0.002 | 0 | 106% | 80 | 120 | 0% | |

| Write Sequence | Insert Entries(Have the first cell for entries selecte | | | | | | |
|---|---|---|---|---|---|---|---|
| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.01r | DCM-Baseline Check-V01 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.02r | Marker_1019HP402r, DRO ;1019HP4 , DRO210708A | g:\org\HP4\Methods\CSC211019.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.03r | Marker_1019HP403r, DRO ak;1019HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-NA-L%.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.04r | CCV_1019HP404r, RRO ;1019HP4 , DRO211012C | G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.05r | CCV_1019HP405r, DRO 815;1019HP4 , DRO211019A | G:\Org\HP4\methods\DC_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.06r | DCM-Baseline Check-V06 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.07r | LCS-160450 ;1019HP4 , | G:\Org\HP4\methods\D3_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.08r | LCSD-160450 ;1019HP4 , | G:\Org\HP4\methods\D3_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.09r | MB-160450 ;1019HP4 , | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.10r | B21101295-001A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.11r | B21101295-001AMS ;1019HP4 , | G:\Org\HP4\methods\D3_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 960 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.12r | B21101295-001AMS-RRO ;1019HP4 , | G:\Org\HP4\methods\D3_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.13r | DCM-Baseline Check-V13 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.14r | LCS-160450-RRO ;1019HP4 , | G:\Org\HP4\methods\D3_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.15r | DCM-Baseline Check-V15 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.16r | LCSD-160450-RRO ;1019HP4 , | G:\Org\HP4\methods\D3_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.17r | Marker_1019HP417r, DRO ;1019HP4 , DRO210708A | g:\org\HP4\Methods\CSC211019.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.18r | Marker_1019HP418r, DRO ak;1019HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-NA-L%.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.19r | CCV_1019HP419r, RRO ;1019HP4 , DRO211012C | G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.20r | CCV_1019HP405r, DRO 815;1019HP4 , DRO211019A | G:\Org\HP4\methods\DC_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.21r | DCM-Baseline Check-V21 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.22r | B21101279-001B ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1045 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.23r | DCM-Baseline Check-V23 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.24r | B21101291-001B ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 990 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.25r | DCM-Baseline Check-V25 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.26r | B21101297-001B ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.27r | B21101306-002A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\D3_8015-24-101927-NA-L%.met<br>G:\Org\HP4\methods\D3_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.28r | DCM-Baseline Check-V28 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.29r | B21101306-003A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\D3_8015-24-NA-L%.met<br>G:\Org\HP4\methods\D3_8015-OILS-101929-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.30r | DCM-Baseline Check-V30 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.31r | B21101306-004A ;1019HP4 , $HC-8015-DRO-W, NEEDS RR DUE TO BASELINE | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.32r | Marker_1019HP432r, DRO ;1019HP4 , DRO210708A | g:\org\HP4\Methods\CSC211019.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.33r | Marker_1019HP433r, DRO ak;1019HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-NA-L%.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.34r | CCV_1019HP434r, RRO ;1019HP4 , DRO211012C | G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.35r | CCV_1019HP405r, DRO 815;1019HP4 , DRO211019A | G:\Org\HP4\methods\DC_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.52r | DCM-Baseline Check-V52 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.53r | Marker_1019HP453r, DRO ;1019HP4 , DRO210708A | g:\org\HP4\Methods\CSC211019.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.54r | Marker_1019HP454r, DRO ak;1019HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-NA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.55r | CCV_1019HP455r, RRO ;1019HP4 , DRO211012C | G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.56r | CCV_1019HP456r, DRO 815;1019HP4 , DRO211019A | G:\Org\HP4\methods\DC_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.57r | DCM-Baseline Check-V57 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.58r | DCM-Baseline Check-V58 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.59r | B21101306-005A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.60r | B21101306-006A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1060 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.61r | B21101306-007A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.62r | B21101306-004A ;1019HP4 , $HC-8015-DRO-W, RR | G:\Org\HP4\methods\DR_8015-101962-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-101962-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.63r | B21101306-001A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\D3_8015-24-NA-L%.met<br>G:\Org\HP4\methods\D3_8015-OILS-101929-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.64r | Marker_1019HP464r, DRO ;1019HP4 , DRO210708A | g:\org\HP4\Methods\CSC211019.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.65r | Marker_1019HP465r, DRO ak;1019HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-NA-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.66r | CCV_1019HP466r, RRO ;1019HP4 , DRO211012C | G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.67r | CCV_1019HP467r, DRO 815;1019HP4 , DRO211019A | G:\Org\HP4\methods\DC_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1 | 1 | 1 | 1 | 0 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

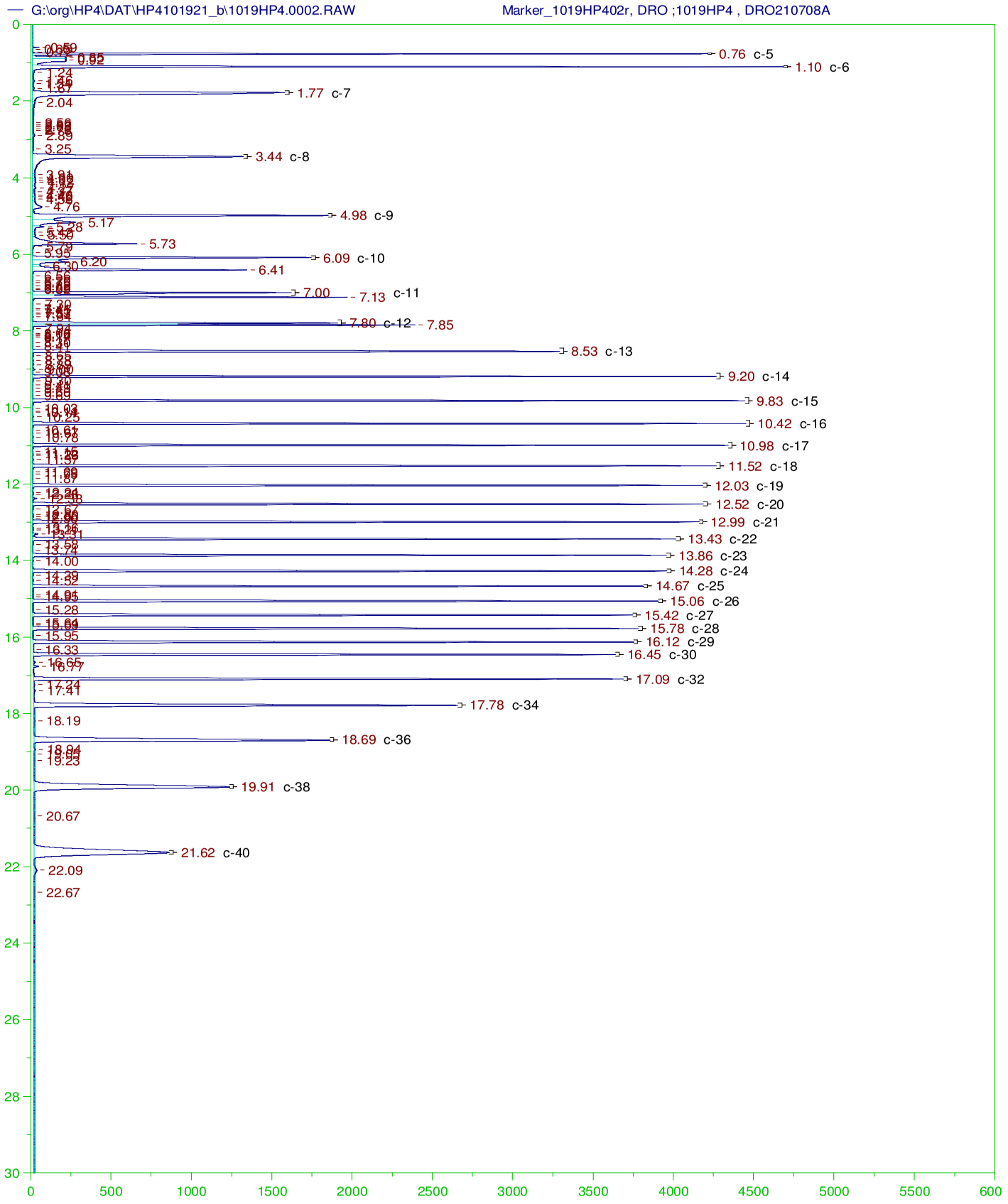
Sample Name: DCM-Baseline Check-V01
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0001.RAW
Date & Time Acquired: 10/19/2021 11:52:41 AM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

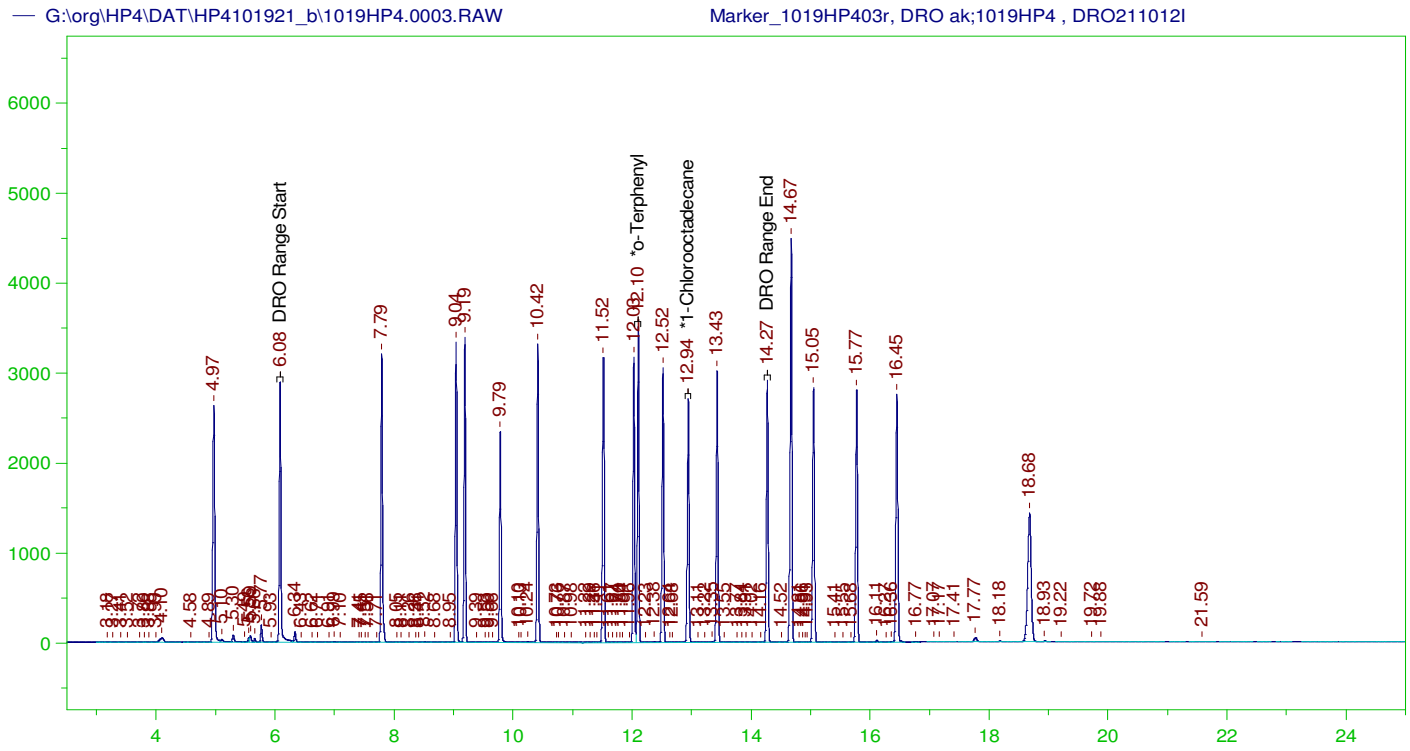
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.119 | 200. | .047 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:77660.19 DRO Amount: 2.98354
TEH Area:164571.4 TEH Amount: 6.322483

G:\org\HP4\dat\HP4101921_b\Review\001_DCM-Baseline Chec_DR_8015-MZ-LEXP.xls




G:\org\HP4\dat\HP4101921_b\Review\002_Marker_1019HP402r_CSC211019.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

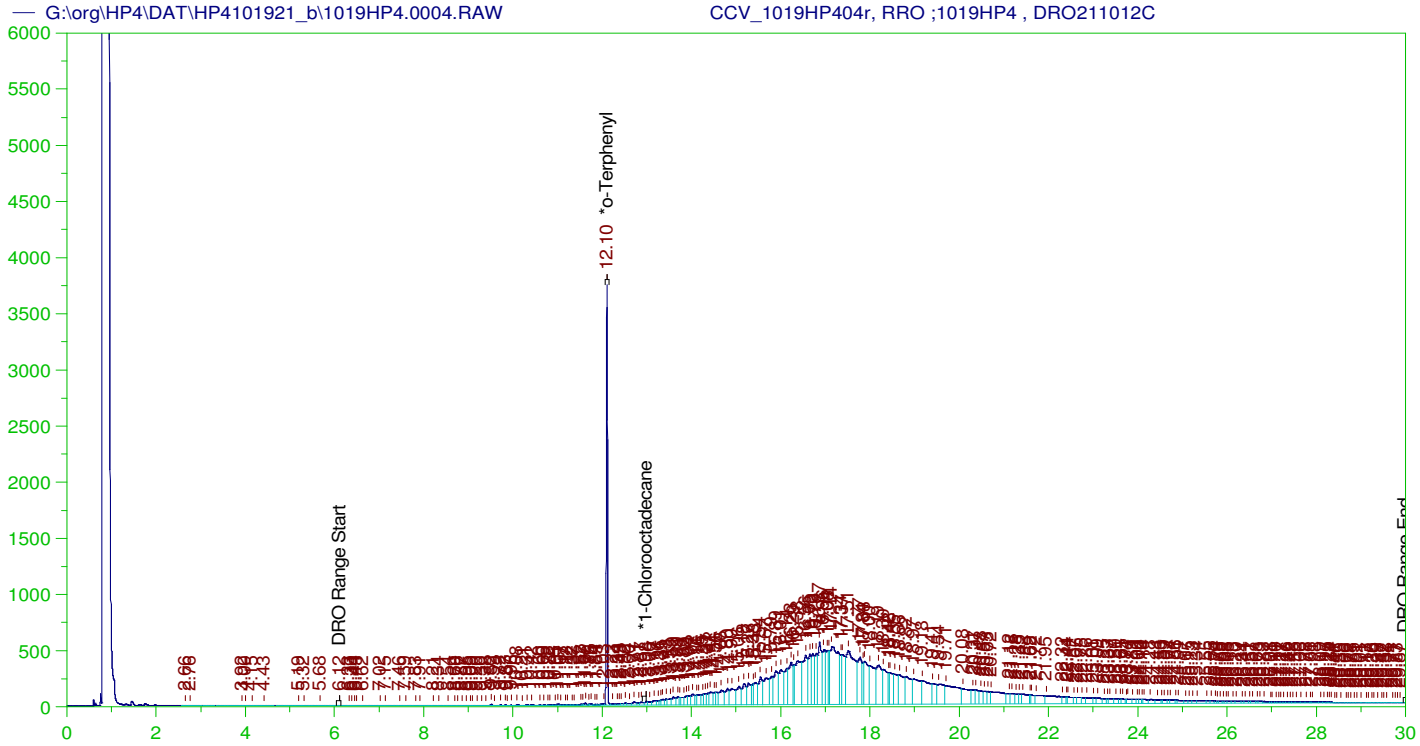
Sample Name: Marker_1019HP403r, DRO ak;1019HP4 , DRO211012I
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0003.RAW
Date & Time Acquired: 10/19/2021 1:22:08 PM
Method File: G:\Org\HP4\methods\DC_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.104 | .2 | .208 | 104.17 | - |
| *1-Chlorooctadecane | 12.943 | .2 | .171 | 85.67 | - |

DRO Area:6.460207E+07 DRO Amount: 2.481874
TEH Area:1.062313E+08 TEH Amount: 4.08118

G:\org\HP4\dat\HP4101921_b\Review\003_Marker_1019HP403r_DC_8015-24-NA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP404r, RRO ;1019HP4 , DRO211012C
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0004.RAW
Date & Time Acquired: 10/19/2021 2:07:00 PM
Method File: G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.104 | 200. | 221.089 | 110.54 | - |
| *1-Chlorooctadecane | 12.982 | 200. | 4.307 | 2.15 | - |

DRO Area:1.231433E+08 DRO Amount: 5020.201
TEH (Oil Range)Area:1.231794E+08 TEH (Oil Range)Amount: 5021.669

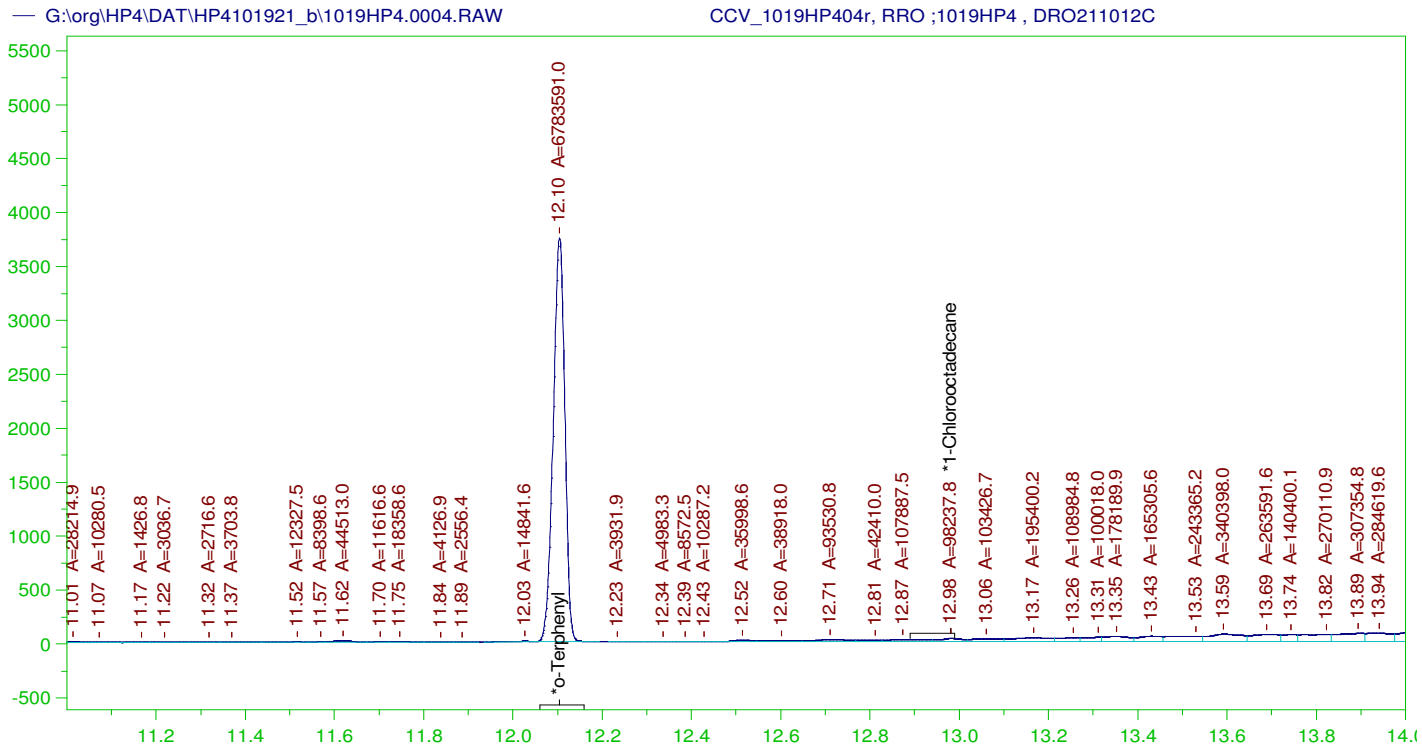
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5021.67 | 100.43 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.104 | 200. | 221.089 | 110.54 | 85-115 |
| *1-Chlorooctadecane | 12.982 | 200. | 4.307 | 2.15 | 85-115 |

AMN 10/25/2021

G:\org\HP4\dat\HP4101921_b\Review\004_CCV_1019HP404r_DC_8015-OIL-AC-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP404r, RRO ;1019HP4 , DRO211012C
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0004.RAW
Date & Time Acquired: 10/19/2021 2:07:00 PM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.104 | 200. | 219.047 | 109.52 | - |
| *1-Chlorooctadecane | 12.982 | 200. | 3.172 | 1.59 | - |

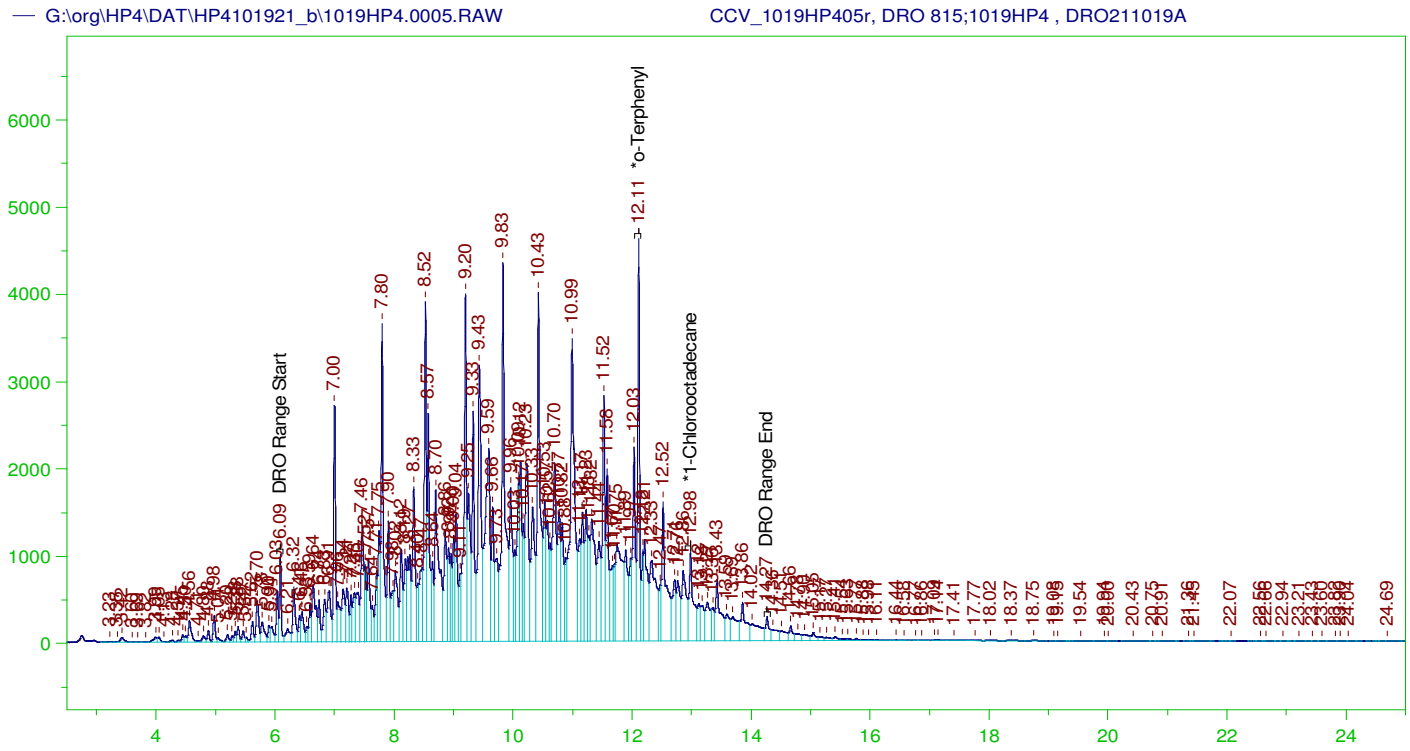
DRO Area:1.188347E+08 DRO Amount: 4844.551
TEH Area:1.188707E+08 TEH Amount: 4846.02

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4846.02 | 96.92 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.104 | 200. | 219.047 | 109.52 | 85-115 |
| *1-Chlorooctadecane | 12.982 | 200. | 3.172 | 1.59 | 85-115 |

G:\org\HP4\dat\HP4101921_b\Review\004_CCV_1019HP404r_DS_8015-OIL-AC-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP405r, DRO 815;1019HP4 , DRO211019A
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0005.RAW
Date & Time Acquired: 10/19/2021 2:51:48 PM
Method File: G:\Org\HP4\methods\DC_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.112 | 200. | 355.274 | 177.64 | - |
| *1-Chlorooctadecane | 12.982 | 200. | 166.394 | 83.2 | - |

DRO Area:4.310116E+08 DRO Amount: 16558.55
TEH Area:4.464546E+08 TEH Amount: 17151.84

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 17151.84 | 114.35 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.112 | 200. | 355.274 | 177.64 | 85-115 |
| *1-Chlorooctadecane | 12.982 | 200. | 166.394 | 83.2 | 85-115 |

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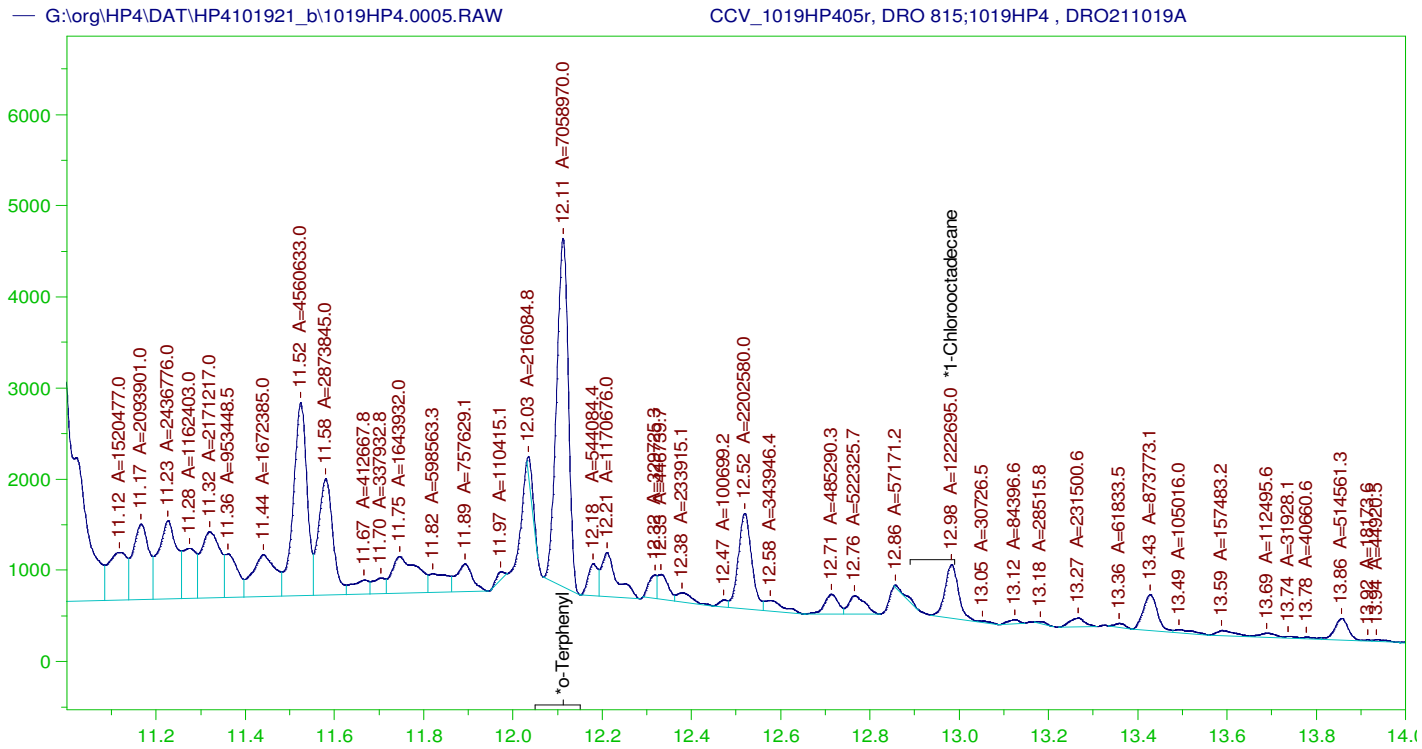



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP405r, DRO 815;1019HP4 , DRO211019A
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0005.RAW
Date & Time Acquired: 10/19/2021 2:51:48 PM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.112 | 200. | 227.94 | 113.97 | - |
| *1-Chlorooctadecane | 12.982 | 200. | 39.482 | 19.74 | - |

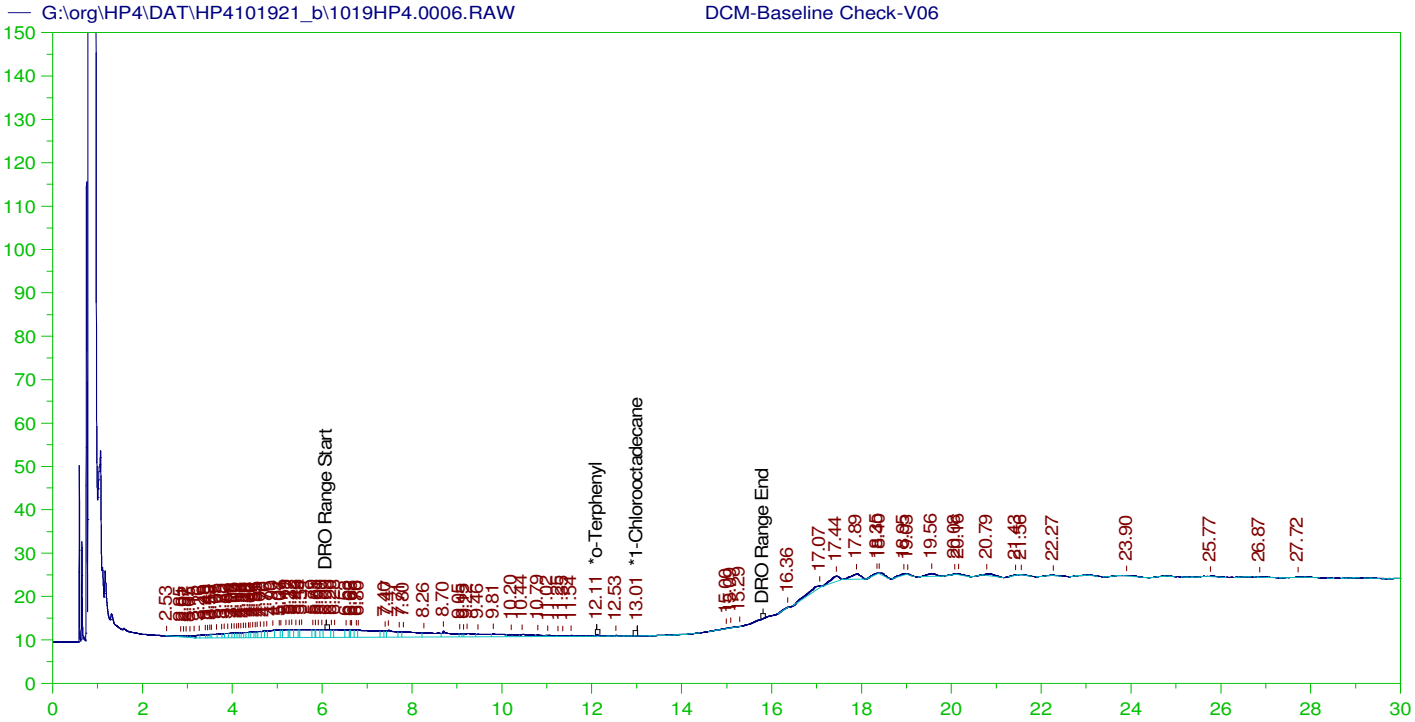
DRO Area:2.367384E+08 DRO Amount: 9094.989
TEH Area:2.459018E+08 TEH Amount: 9447.026

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9447.03 | 62.98 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.112 | 200. | 227.94 | 113.97 | 85-115 |
| *1-Chlorooctadecane | 12.982 | 200. | 39.482 | 19.74 | 85-115 |

G:\org\HP4\dat\HP4101921_b\Review\005_CCV_1019HP405r_DS_8015-24-NA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0006.RAW
Date & Time Acquired: 10/19/2021 3:36:57 PM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

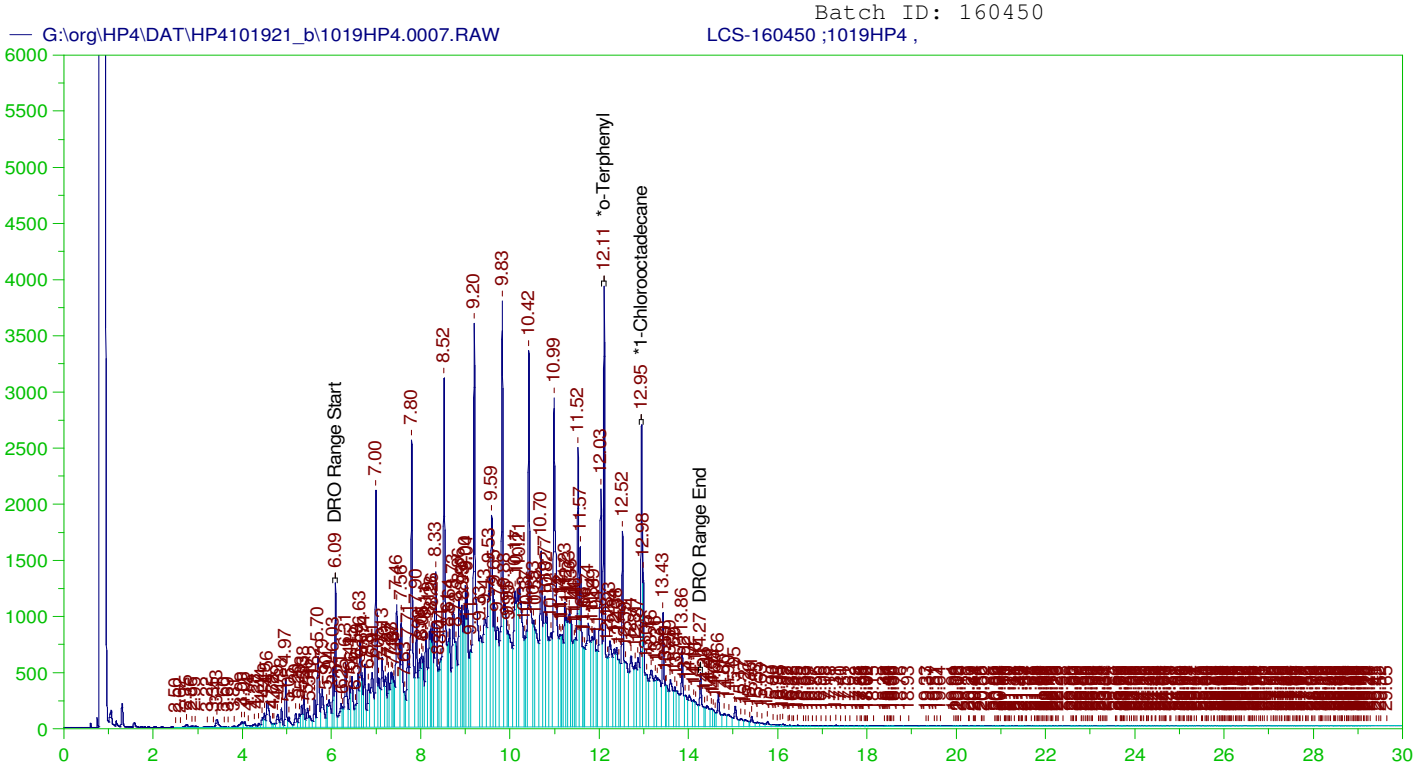
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.109 | 200. | .061 | .03 | - |
| *1-Chlorooctadecane | 13.007 | 200. | .023 | .01 | - |

DRO Area:286497 DRO Amount: 11.00661
TEH Area:622452 TEH Amount: 23.91329

G:\org\HP4\dat\HP4101921_b\Review\006_DCM-Baseline Chec_DR_8015-MZ-LEXP.xls

Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160450 ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0007.RAW
Date & Time Acquired: 10/19/2021 4:21:46 PM
Method File: G:\Org\HP4\methods\D3_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.108 | .2 | .328 | 163.81 | - |
| *1-Chlorooctadecane | 12.946 | .2 | .209 | 104.27 | - |

DRO Area:3.608423E+08 DRO Amount: 13.8628
TEH Area:3.863239E+08 TEH Amount: 14.84175

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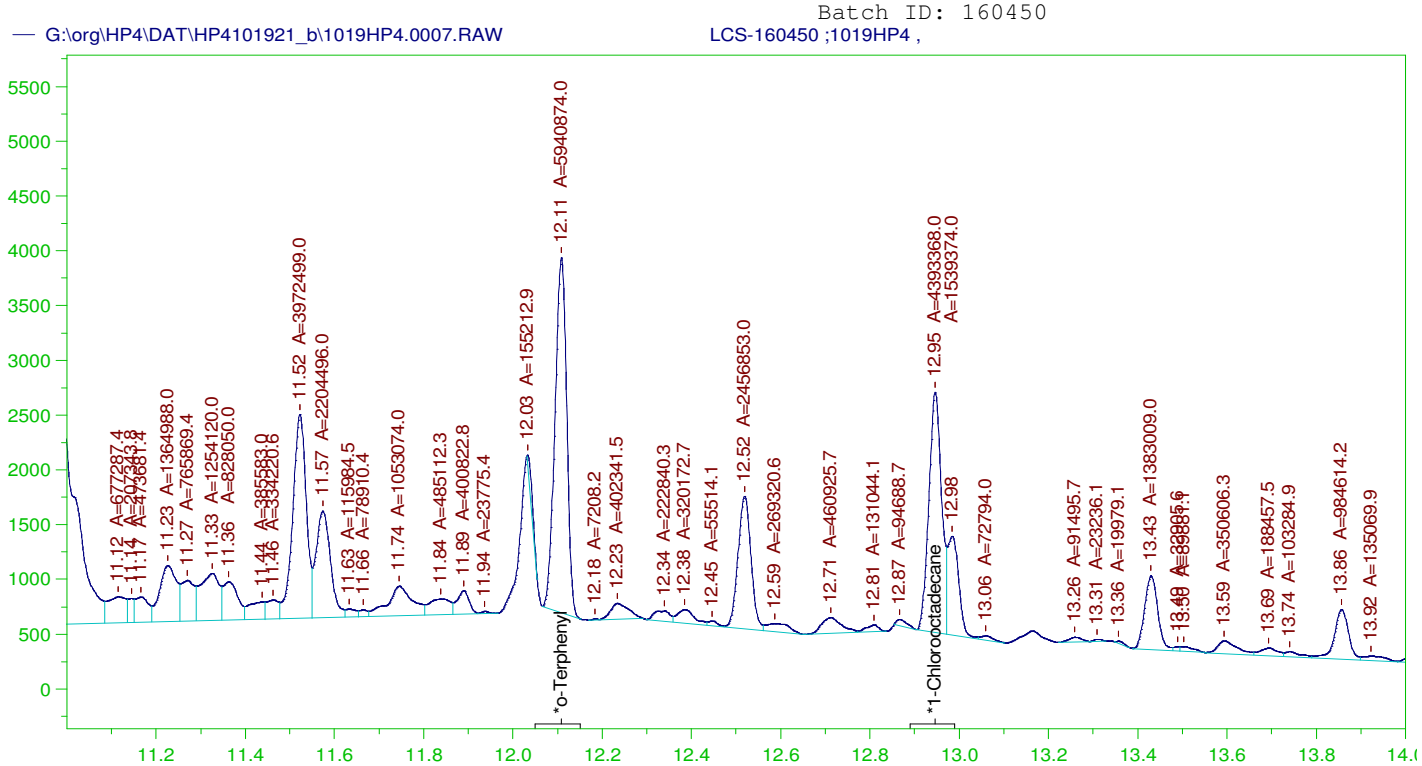


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160450 ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0007.RAW
Date & Time Acquired: 10/19/2021 4:21:46 PM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.108 | .2 | .192 | 95.92 | - |
| *1-Chlorooctadecane | 12.946 | .2 | .142 | 70.93 | - |

DRO Area:1.720563E+08 DRO Amount: 6.610039
TEH Area:1.842627E+08 TEH Amount: 7.078981

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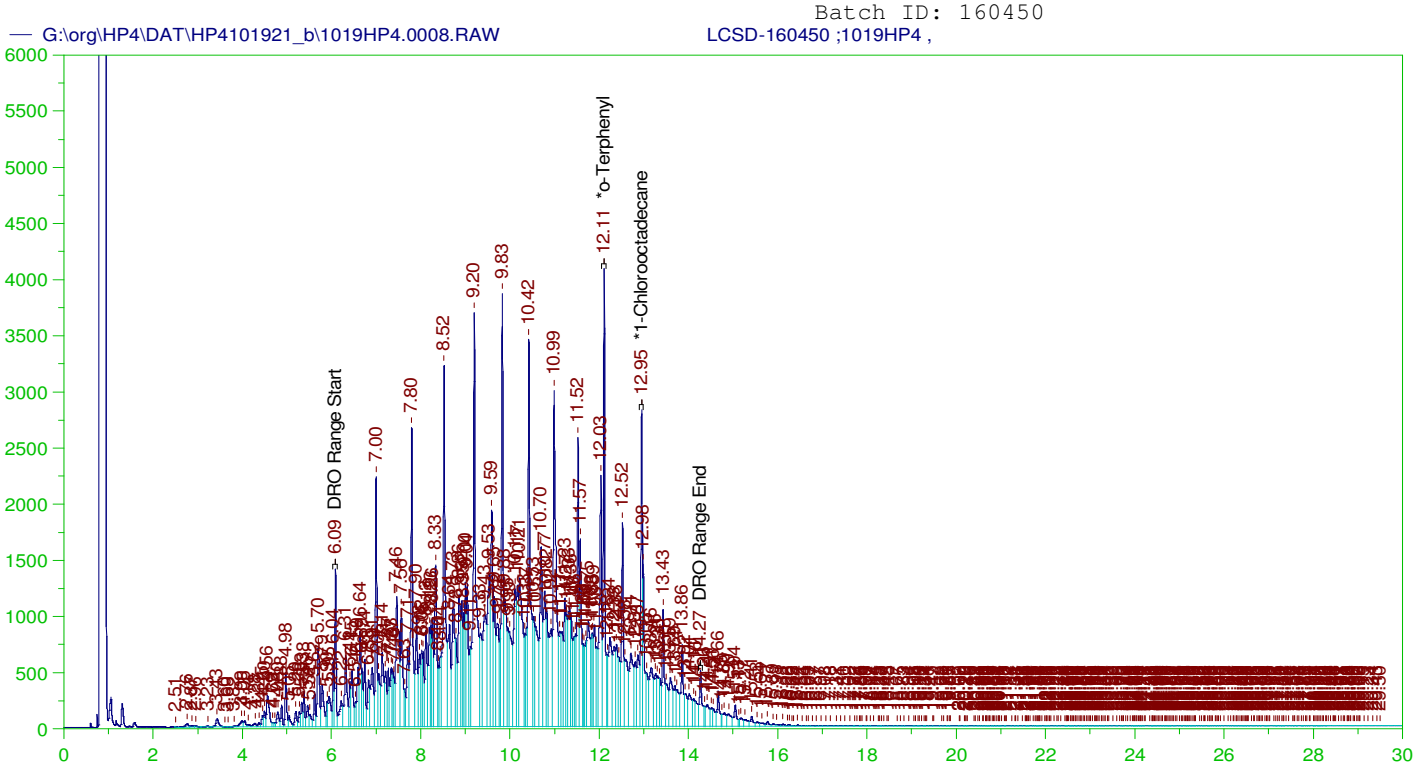
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCSD-160450 ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0008.RAW
Date & Time Acquired: 10/19/2021 5:06:47 PM
Method File: G:\Org\HP4\methods\D3_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.108 | .2 | .339 | 169.64 | - |
| *1-Chlorooctadecane | 12.947 | .2 | .217 | 108.27 | - |

DRO Area:3.765873E+08 DRO Amount: 14.46769
TEH Area:4.038957E+08 TEH Amount: 15.51682

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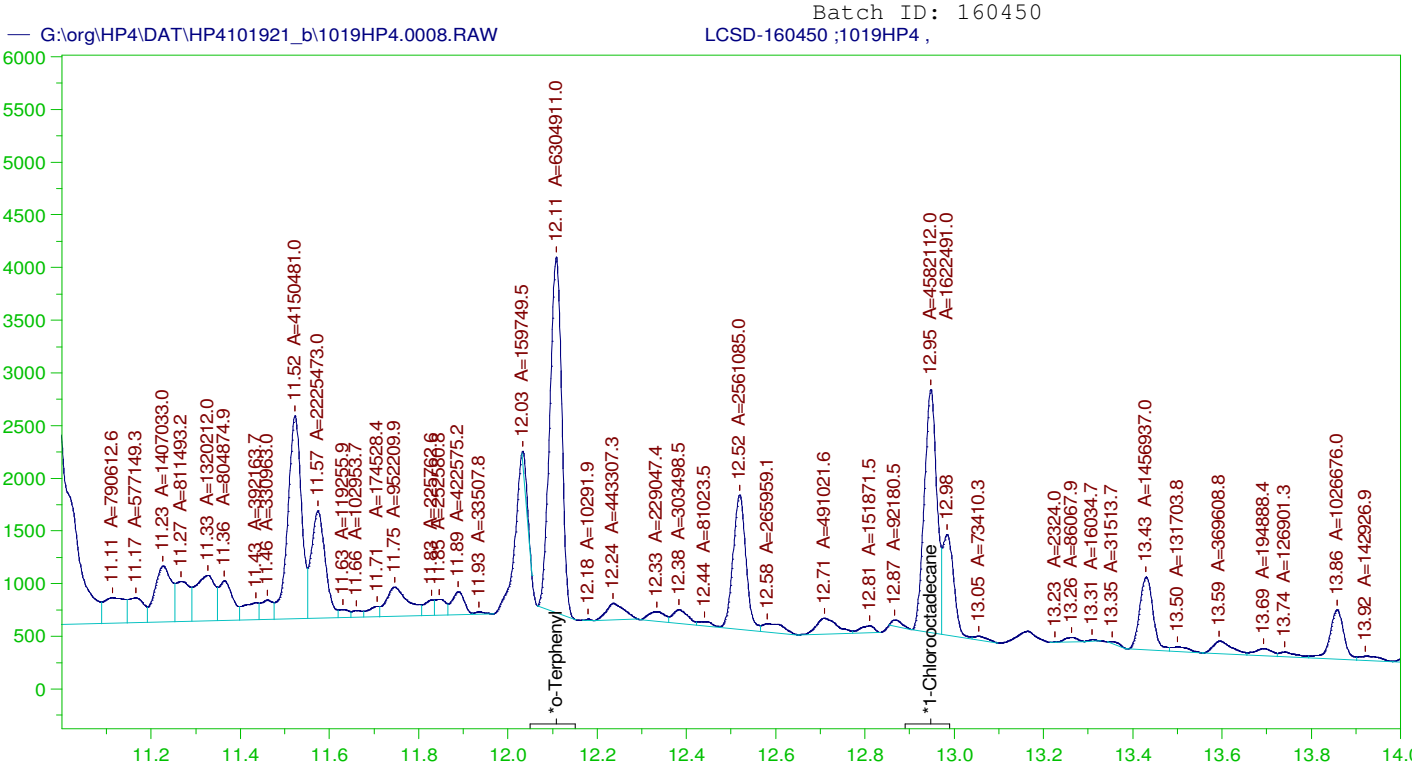


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCSD-160450 ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0008.RAW
Date & Time Acquired: 10/19/2021 5:06:47 PM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.108 | .2 | .204 | 101.8 | - |
| *1-Chlorooctadecane | 12.947 | .2 | .148 | 73.98 | - |

DRO Area:1.796382E+08 DRO Amount: 6.901318
TEH Area:1.933925E+08 TEH Amount: 7.429729

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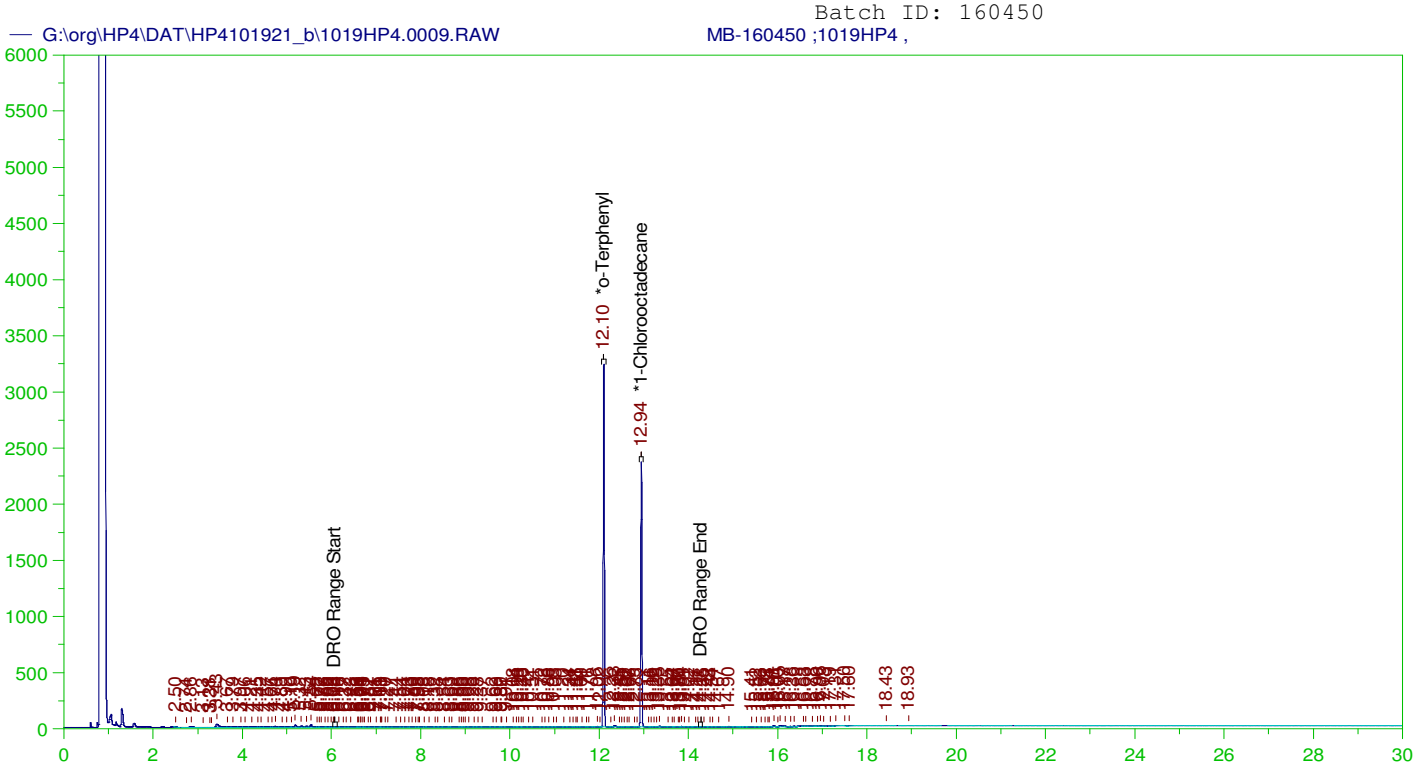
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160450 ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0009.RAW
Date & Time Acquired: 10/19/2021 5:52:13 PM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.1 | .2 | .19 | 95.08 | - |
| *1-Chlorooctadecane | 12.94 | .2 | .151 | 75.68 | - |

DRO Area:721610.3 DRO Amount: 2.772274E-02
TEH Area:1480284 TEH Amount: 5.686936E-02

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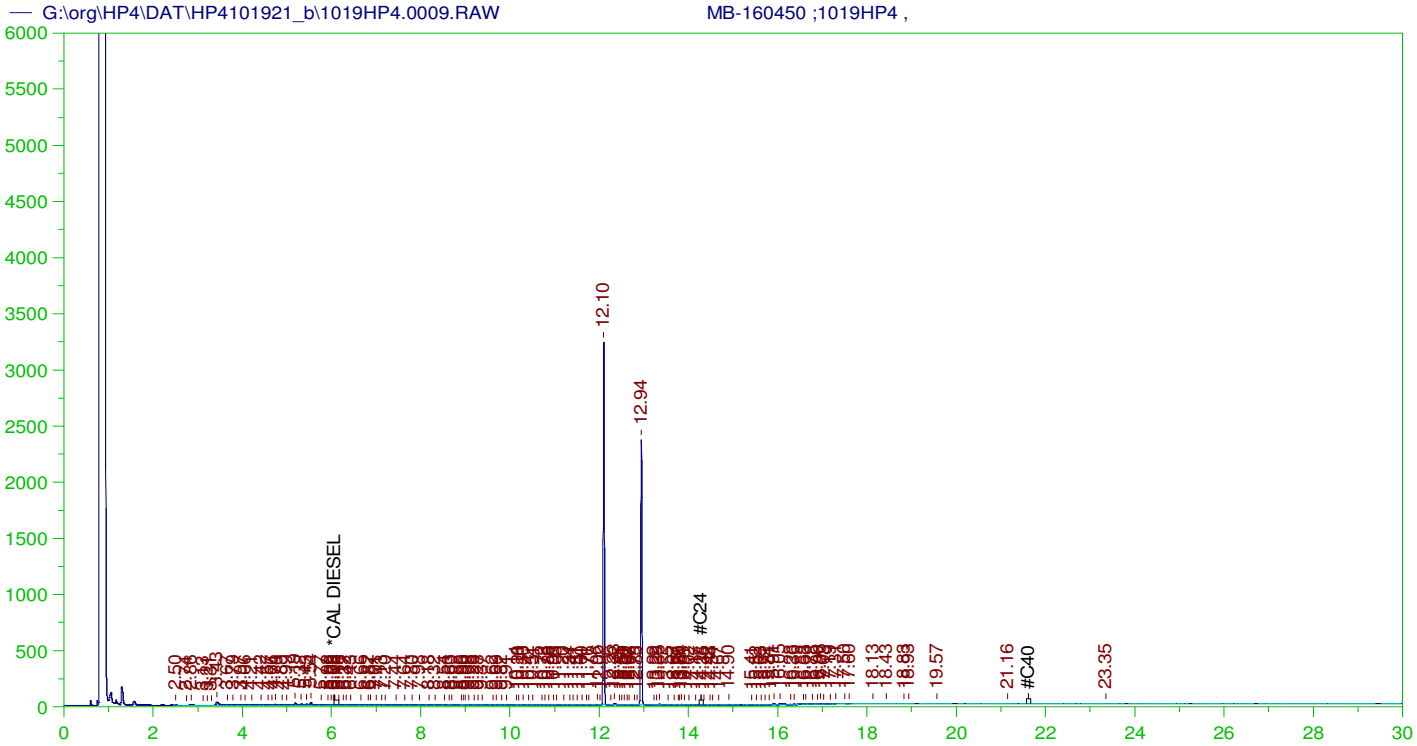


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160450 ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0009.RAW
Date & Time Acquired: 10/19/2021 5:52:13 PM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:154715.4 RRO AMOUNT: 6.307303E-03

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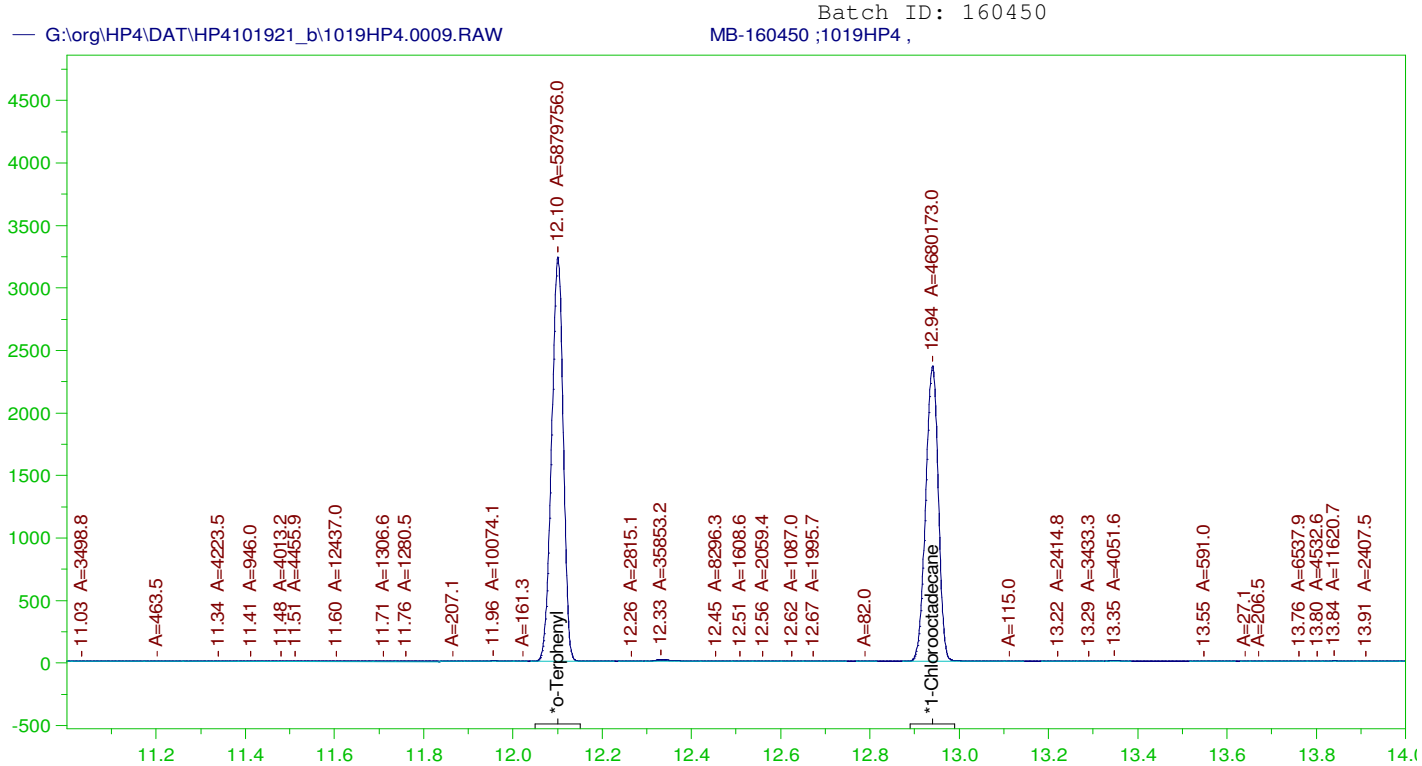
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160450 ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0009.RAW
Date & Time Acquired: 10/19/2021 5:52:13 PM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

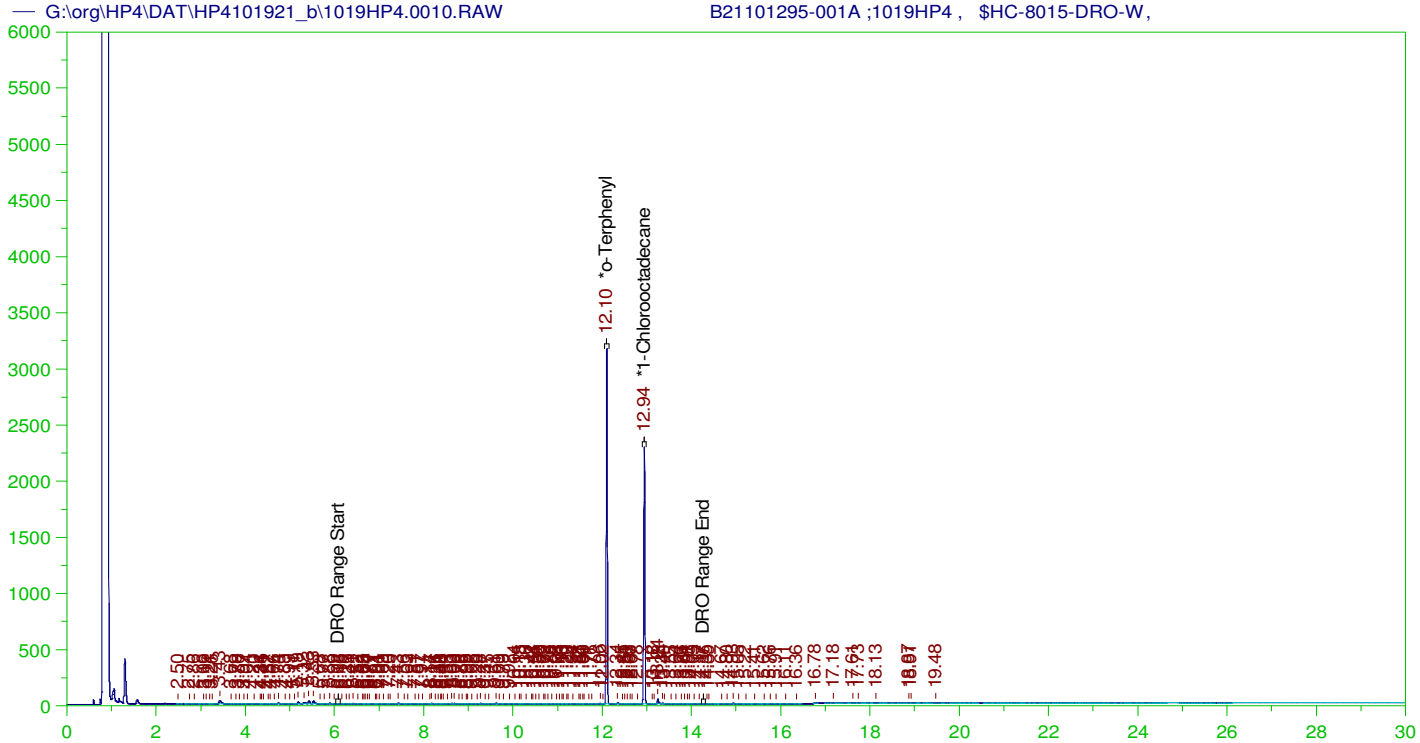
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.1 | .2 | .19 | 94.93 | - |
| *1-Chlorooctadecane | 12.94 | .2 | .151 | 75.56 | - |

DRO Area:340807 DRO Amount: 1.309308E-02
TEH Area:1018805 TEH Amount: 3.914032E-02

G:\org\HP4\dat\HP4101921_b\Review\009_MB-160450_DS_8015-24-NA-L#.xls

**ERH1723 (RHMW14 Zone 3)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0010.RAW B21101295-001A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101295-001A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0010.RAW
Date & Time Acquired: 10/19/2021 6:37:30 PM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

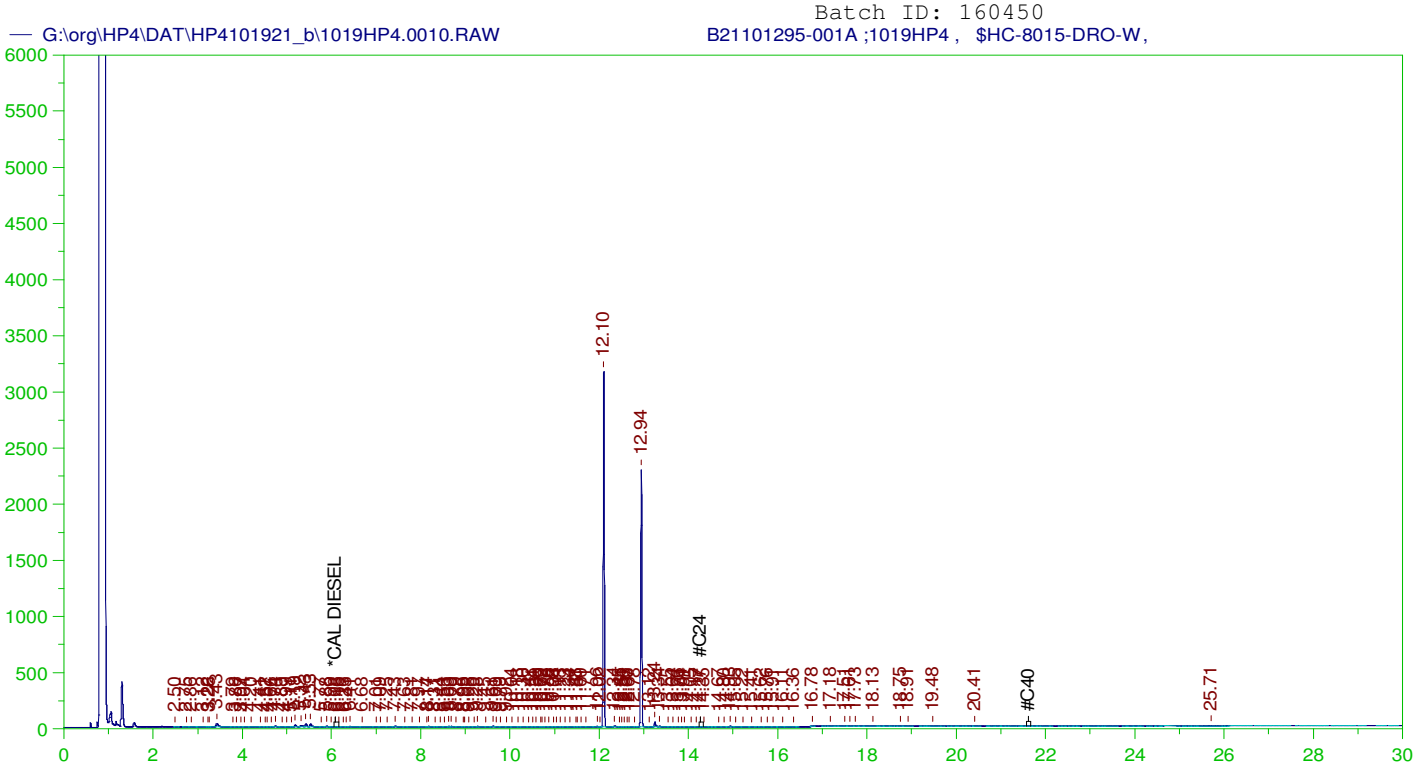
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.1 | .194 | .177 | 91.14 | - |
| *1-Chlorooctadecane | 12.939 | .194 | .141 | 72.8 | - |

DRO Area:1115636 DRO Amount: 4.161203E-02
TEH Area:2002602 TEH Amount: 7.469487E-02

G:\org\HP4\dat\HP4101921_b\Review\010_B21101295-001A_DR_8015-24-NA-L%.xls

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101295-001A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0010.RAW
Date & Time Acquired: 10/19/2021 6:37:30 PM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:76697.16 RRO AMOUNT: 3.035654E-03

G:\org\HP4\dat\HP4101921_b\Review\010_B21101295-001A_DR_8015-OILS-AC-L%.xls

**ERH1723 (RHMW14 Zone 3)** Batch ID: 160450

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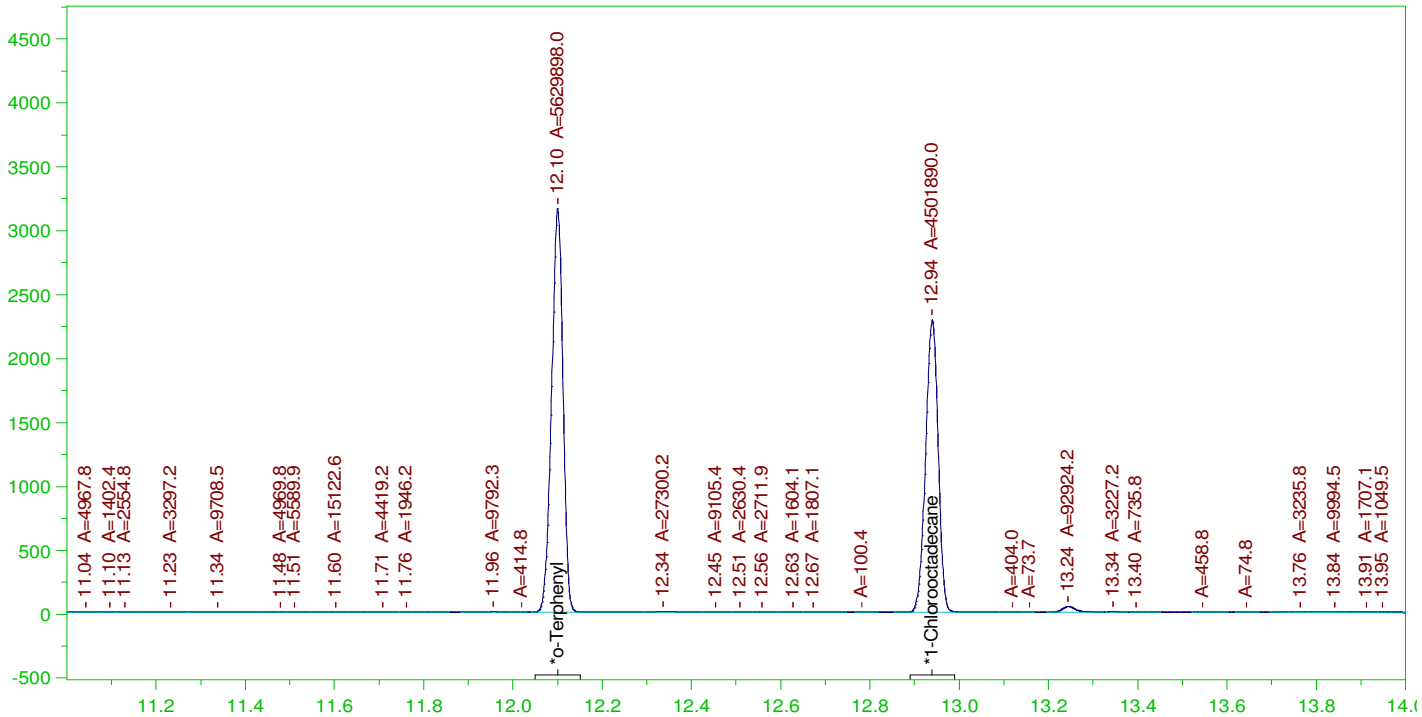


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101295-001A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0010.RAW
Date & Time Acquired: 10/19/2021 6:37:30 PM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.1 | .194 | .176 | 90.9 | - |
| *1-Chlorooctadecane | 12.939 | .194 | .141 | 72.68 | - |

DRO Area:995739.4 DRO Amount: 0.03714
TEH Area:1848503 TEH Amount: 6.894716E-02

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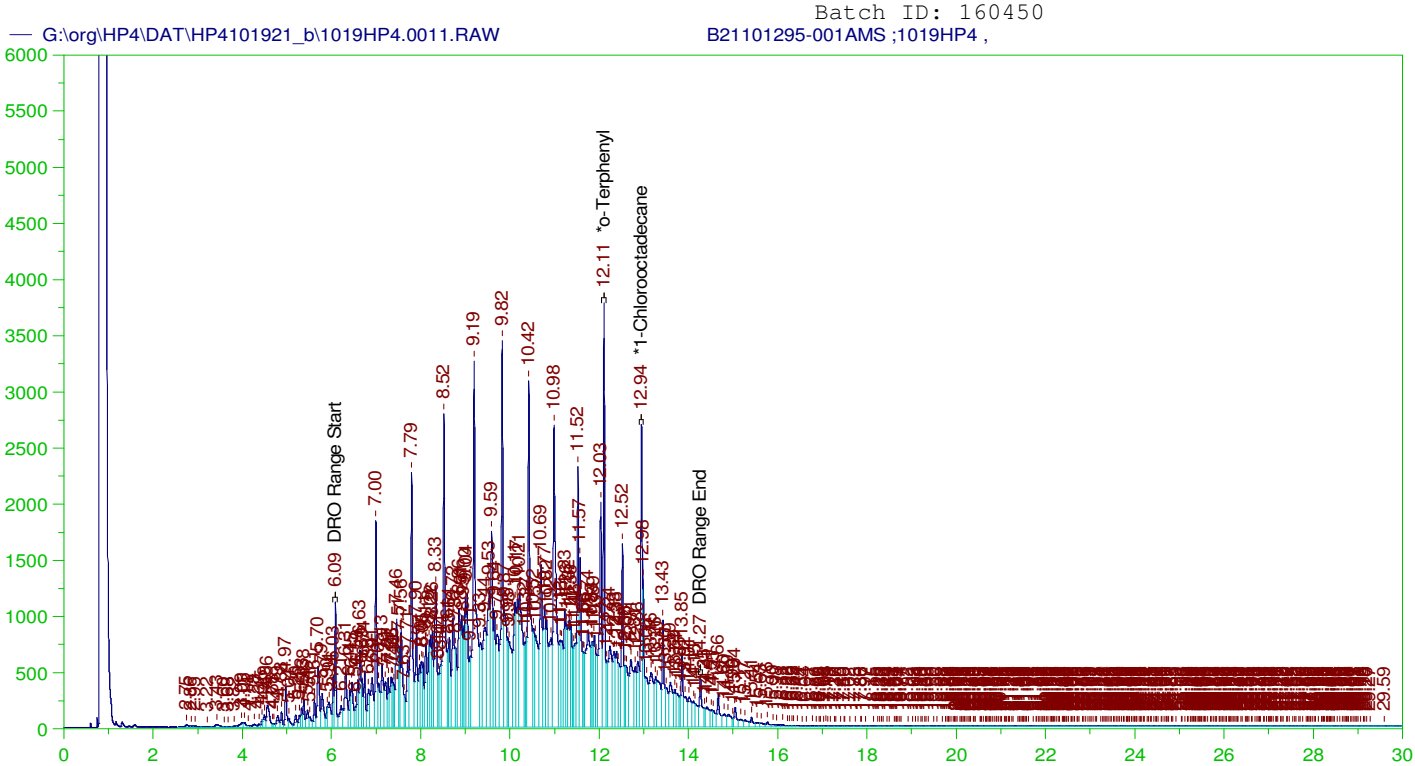


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101295-001AMS ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0011.RAW
Date & Time Acquired: 10/19/2021 7:22:49 PM
Method File: G:\Org\HP4\methods\D3_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 960 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.106 | .208 | .311 | 149.37 | - |
| *1-Chlorooctadecane | 12.943 | .208 | .222 | 106.51 | - |

DRO Area:3.35544E+08 DRO Amount: 13.42801
TEH Area:3.582074E+08 TEH Amount: 14.33497

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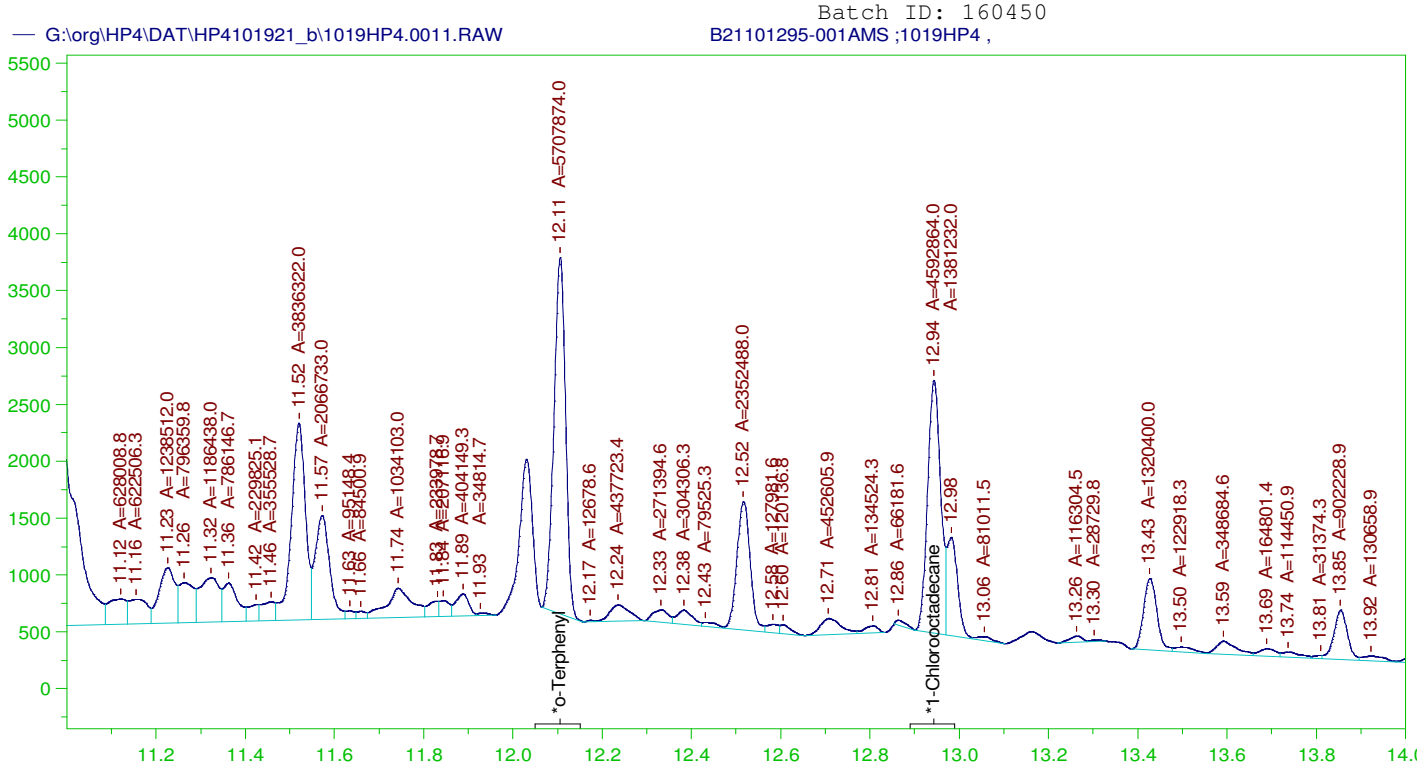


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101295-001AMS ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0011.RAW
Date & Time Acquired: 10/19/2021 7:22:49 PM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 960 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.106 | .208 | .192 | 92.16 | - |
| *1-Chlorooctadecane | 12.943 | .208 | .154 | 74.15 | - |

DRO Area:1.577734E+08 DRO Amount: 6.313875
TEH Area:1.681553E+08 TEH Amount: 6.729342

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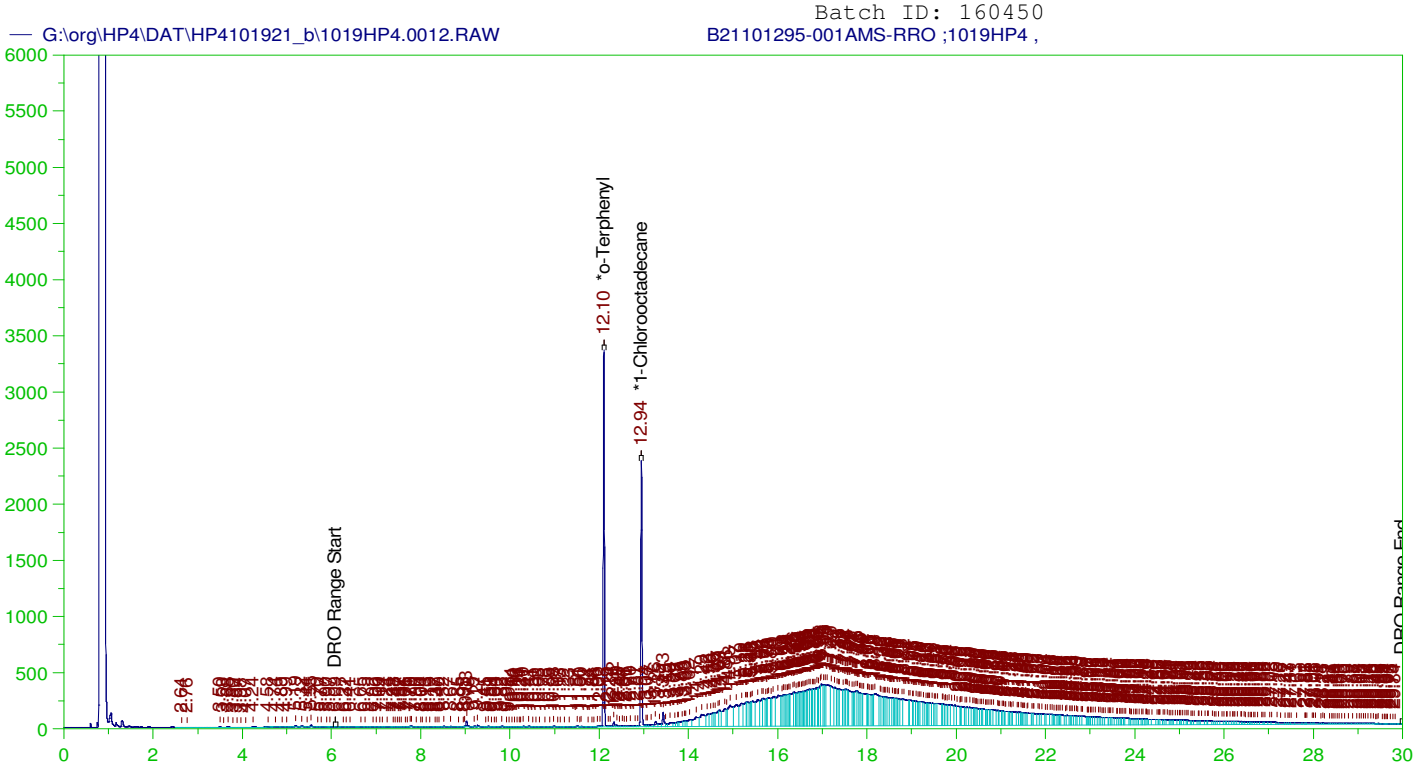
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101295-001AMS-RRO ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0012.RAW
Date & Time Acquired: 10/19/2021 8:08:10 PM
Method File: G:\Org\HP4\methods\D3_8015-OIL-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.101 | .196 | .195 | 99.46 | - |
| *1-Chlorooctadecane | 12.94 | .196 | .151 | 77.01 | - |

DRO Area:1.204168E+08 DRO Amount: 4.812794
TEH (Oil Range) Area:1.206495E+08 TEH (Oil Range) Amount: 4.822092

AMN 10/25/2021

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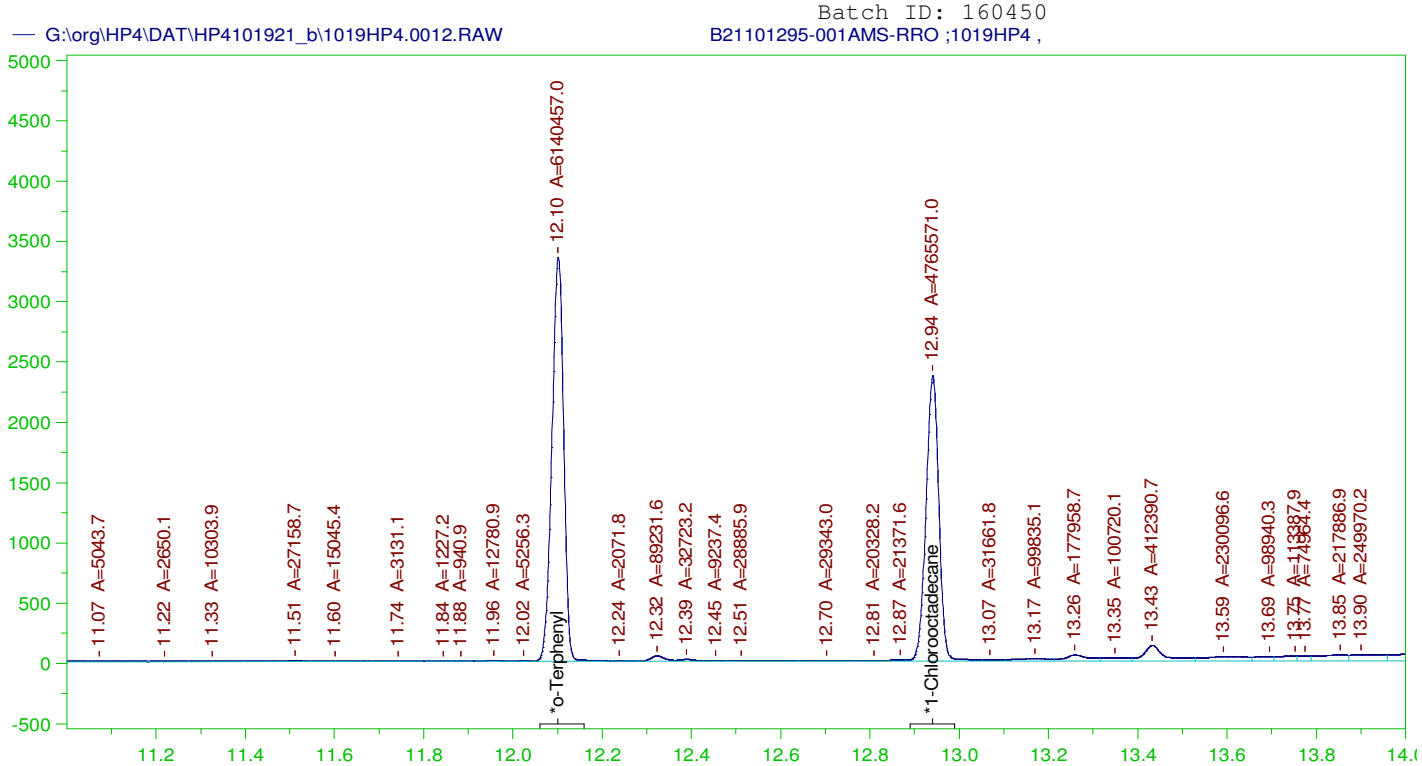
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

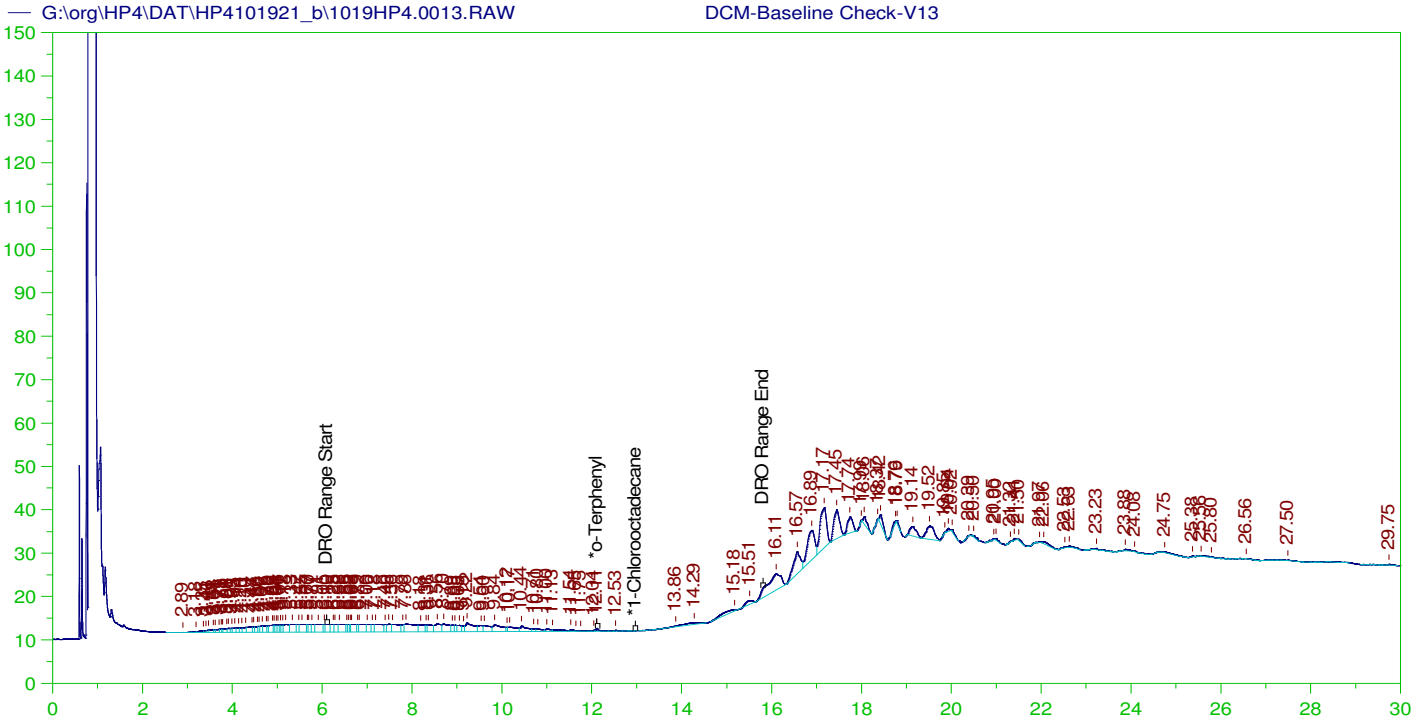
Sample Name: B21101295-001AMS-RRO ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0012.RAW
Date & Time Acquired: 10/19/2021 8:08:10 PM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.101 | .196 | .194 | 99.14 | - |
| *1-Chlorooctadecane | 12.94 | .196 | .151 | 76.94 | - |

DRO Area:1.193382E+08 DRO Amount: 4.769684
TEH Area:1.195709E+08 TEH Amount: 4.778985

G:\org\HP4\dat\HP4101921_b\Review\012_B21101295-001AMS-RRO_DS_8015-OIL-AC-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

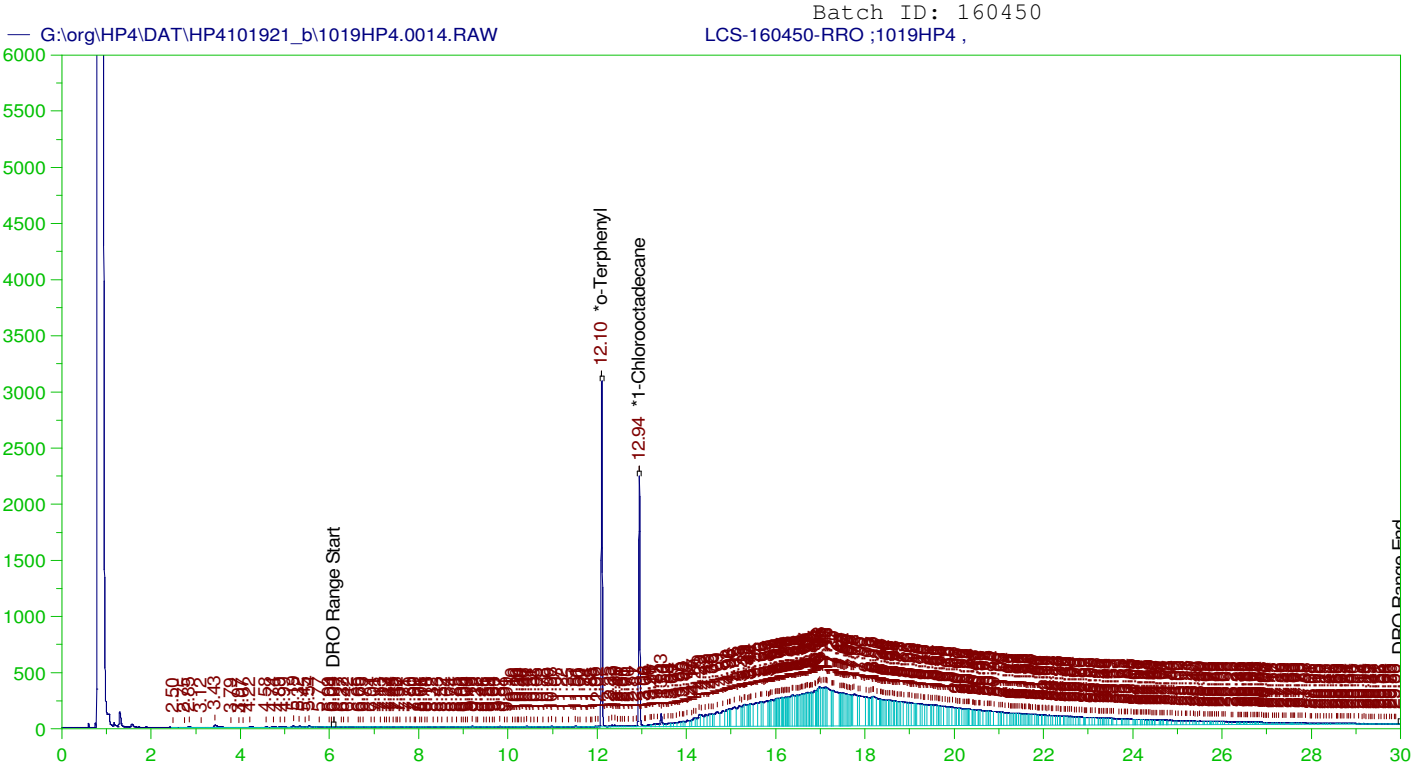
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0013.RAW
Date & Time Acquired: 10/19/2021 8:53:32 PM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.112 | 200. | .086 | .04 | - |
| *1-Chlorooctadecane | 29.746 | 200. | . | . | - |

DRO Area:471618.9 DRO Amount: 18.1186
TEH Area:1248602 TEH Amount: 47.96865

Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160450-RRO ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0014.RAW
Date & Time Acquired: 10/19/2021 9:38:55 PM
Method File: G:\Org\HP4\methods\D3_8015-OIL-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.1 | .2 | .183 | 91.32 | - |
| *1-Chlorooctadecane | 12.94 | .2 | .147 | 73.59 | - |

DRO Area:1.101684E+08 DRO Amount: 4.491251
TEH (Oil Range)Area:1.104478E+08 TEH (Oil Range) Amount: 4.502641

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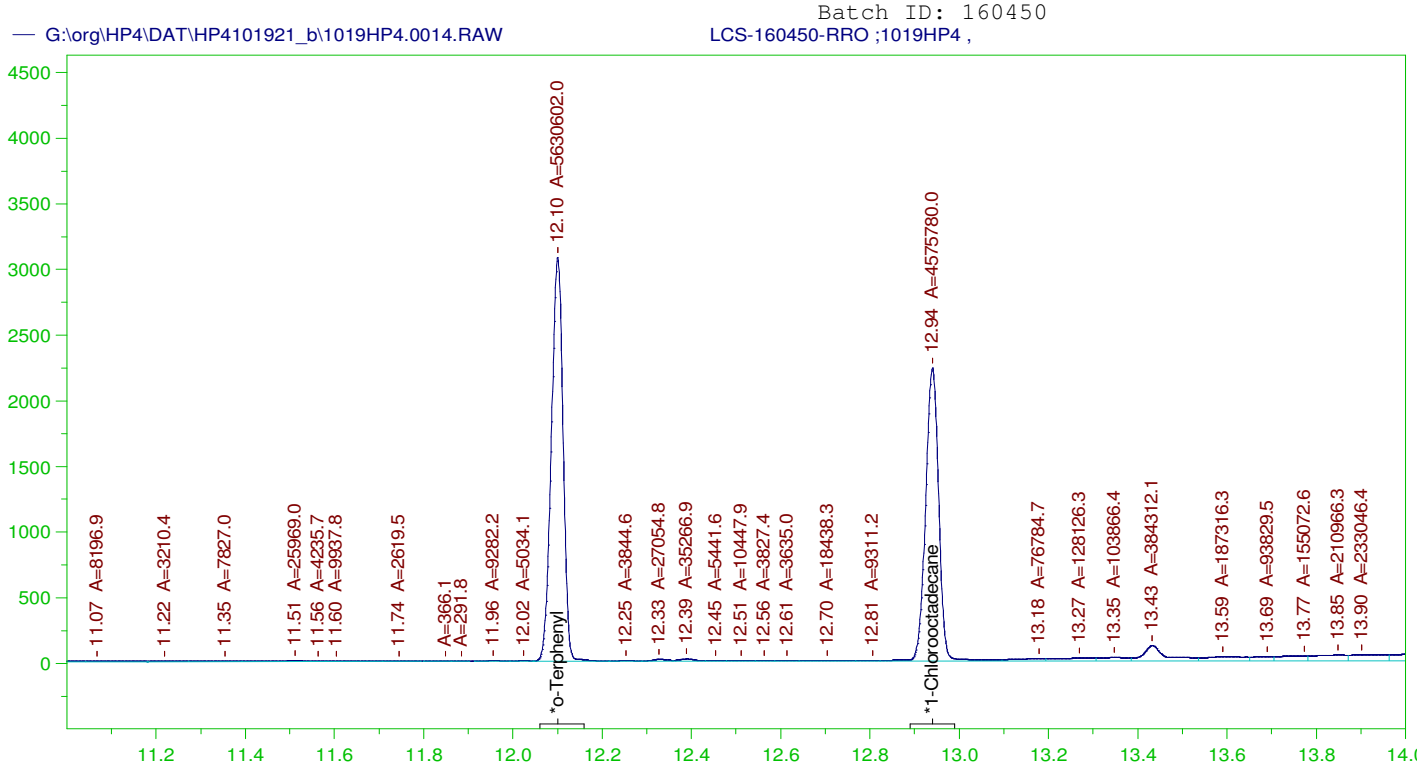
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

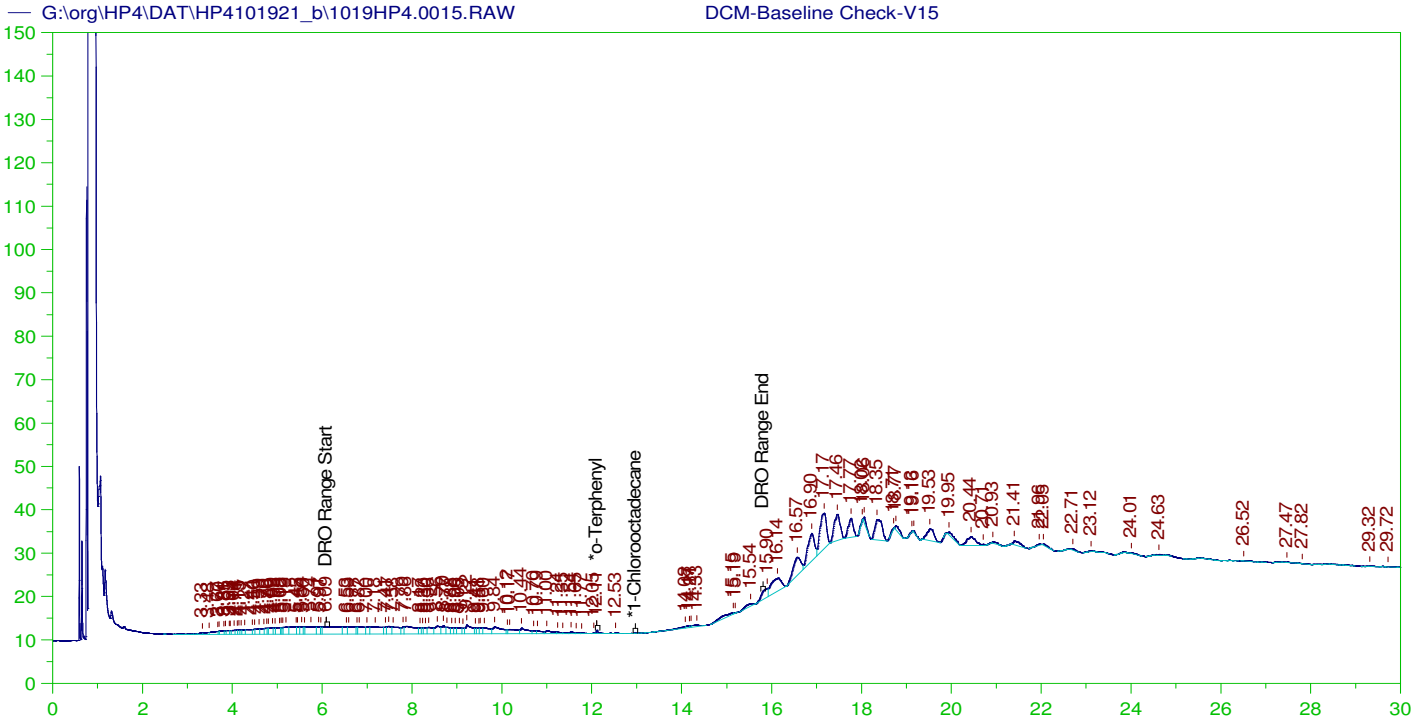
Sample Name: LCS-160450-RRO ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0014.RAW
Date & Time Acquired: 10/19/2021 9:38:55 PM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.1 | .2 | .182 | 90.91 | - |
| *1-Chlorooctadecane | 12.94 | .2 | .148 | 73.88 | - |

DRO Area:1.087642E+08 DRO Amount: 4.434007
TEH Area:1.090437E+08 TEH Amount: 4.445399

G:\org\HP4\dat\HP4101921_b\Review\014_LCS-160450-RRO_DS_8015-OIL-AC-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V15
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0015.RAW
Date & Time Acquired: 10/19/2021 10:24:13 PM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.112 | 200. | .089 | .04 | - |
| *1-Chlorooctadecane | 29.951 | 200. | . | . | - |

DRO Area:452304.8 DRO Amount: 17.37659
TEH Area:1192243 TEH Amount: 45.80344

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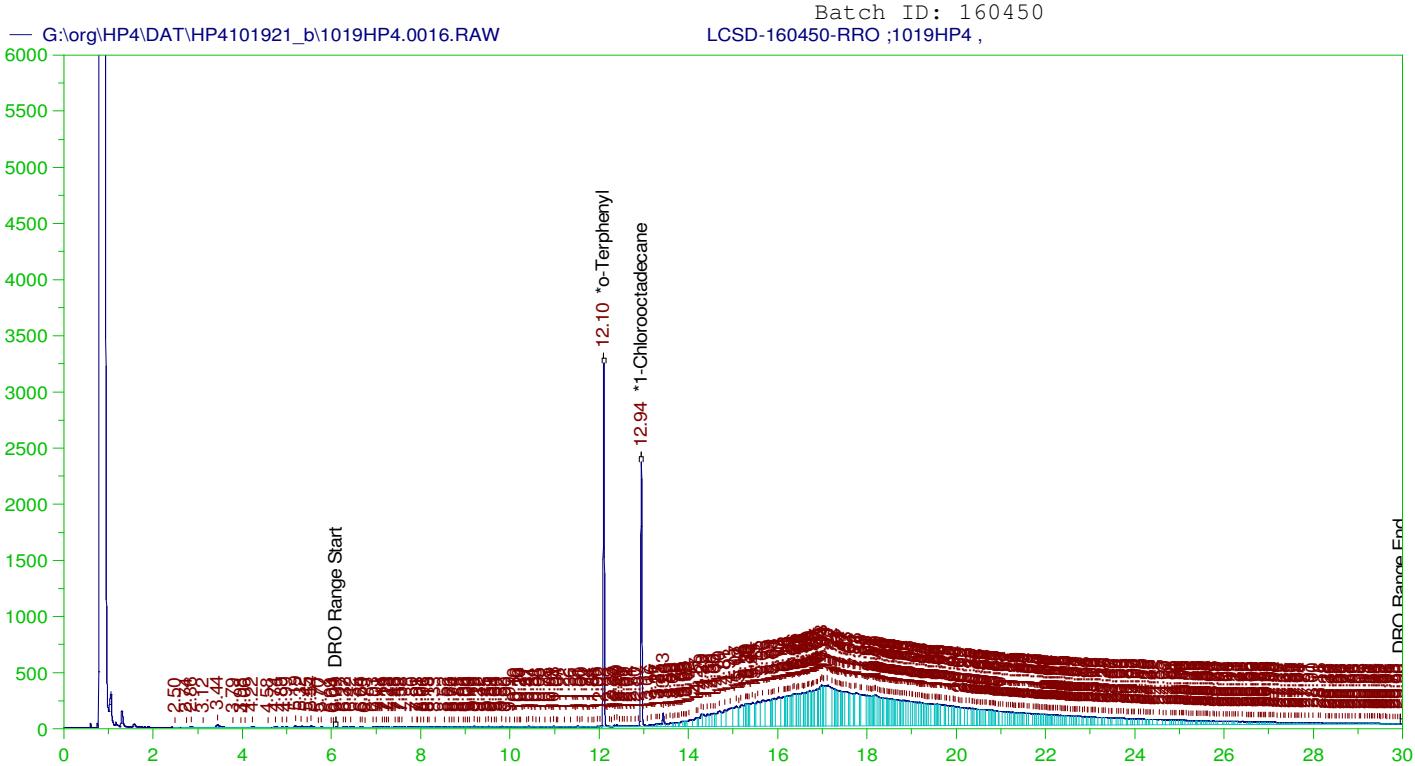
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCSD-160450-RRO ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0016.RAW
Date & Time Acquired: 10/19/2021 11:09:30 PM
Method File: G:\Org\HP4\methods\D3_8015-OIL-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.1 | .2 | .191 | 95.62 | - |
| *1-Chlorooctadecane | 12.94 | .2 | .155 | 77.39 | - |

DRO Area:1.149915E+08 DRO Amount: 4.687874
TEH (Oil Range)Area:1.152788E+08 TEH (Oil Range)Amount: 4.699585

AMN 10/25/2021

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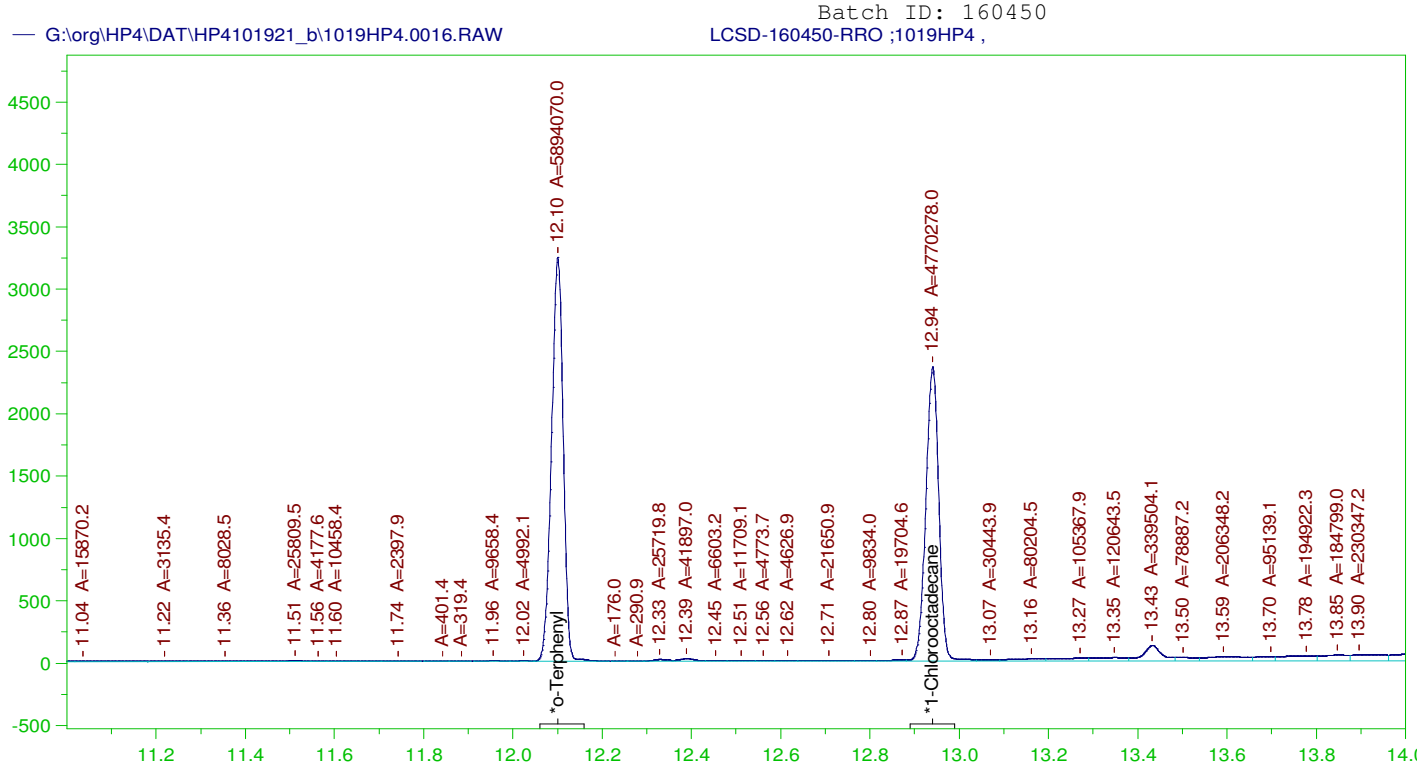
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCSD-160450-RRO ;1019HP4 ,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0016.RAW
Date & Time Acquired: 10/19/2021 11:09:30 PM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.1 | .2 | .19 | 95.16 | - |
| *1-Chlorooctadecane | 12.94 | .2 | .154 | 77.02 | - |

DRO Area:1.136548E+08 DRO Amount: 4.63338
TEH Area:1.139423E+08 TEH Amount: 4.6451

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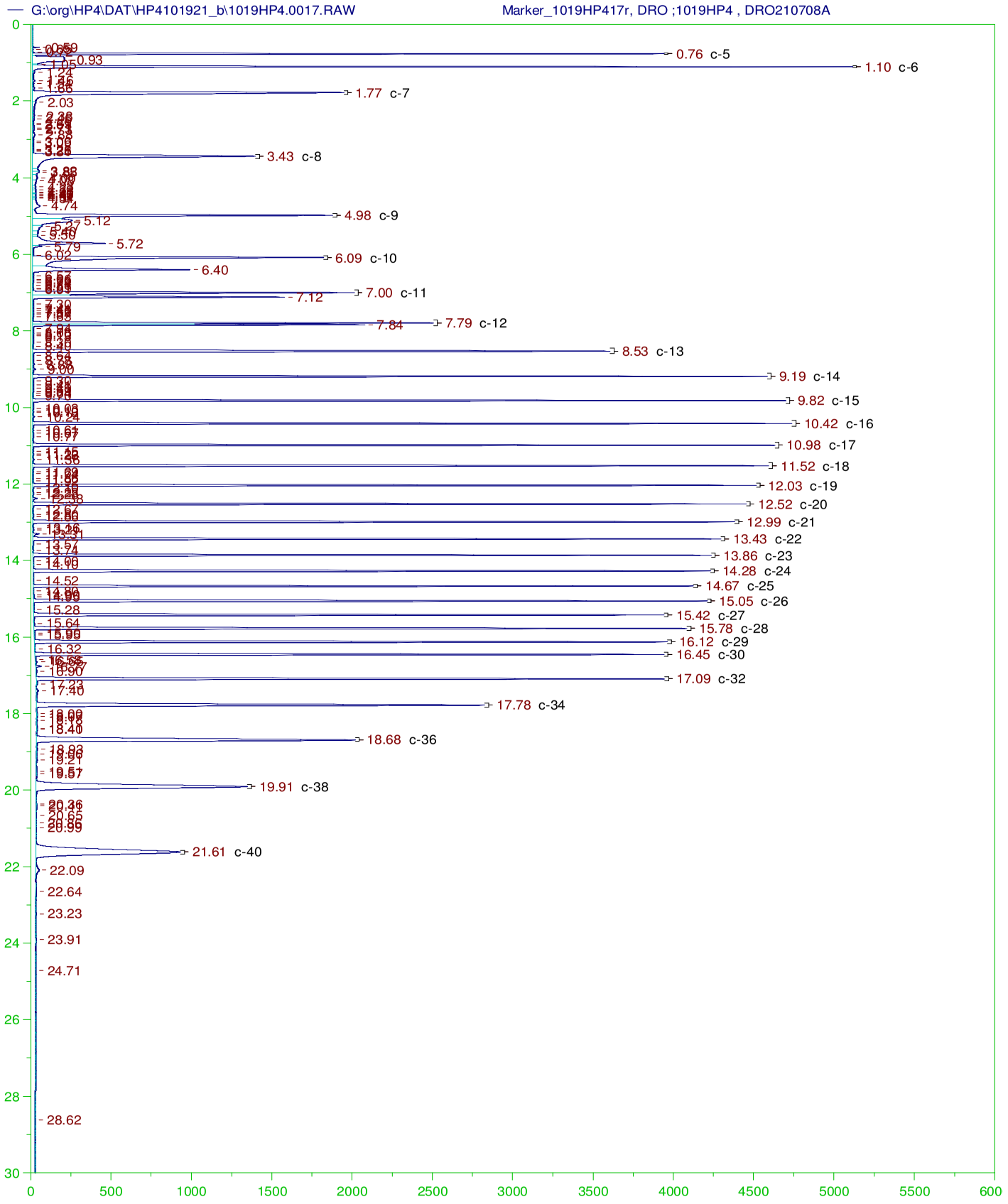
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1.10 c-6
1.77 c-7
3.43 c-8
4.98 c-9
6.09 c-10
7.00 c-11
7.79 c-12
8.53 c-13
9.19 c-14
9.82 c-15
10.42 c-16
10.98 c-17
11.52 c-18
12.03 c-19
12.52 c-20
12.99 c-21
13.43 c-22
13.86 c-23
14.28 c-24
14.67 c-25
15.05 c-26
15.42 c-27
15.78 c-28
16.12 c-29
16.45 c-30
17.09 c-32
17.78 c-34
18.68 c-36
19.91 c-38
21.61 c-40
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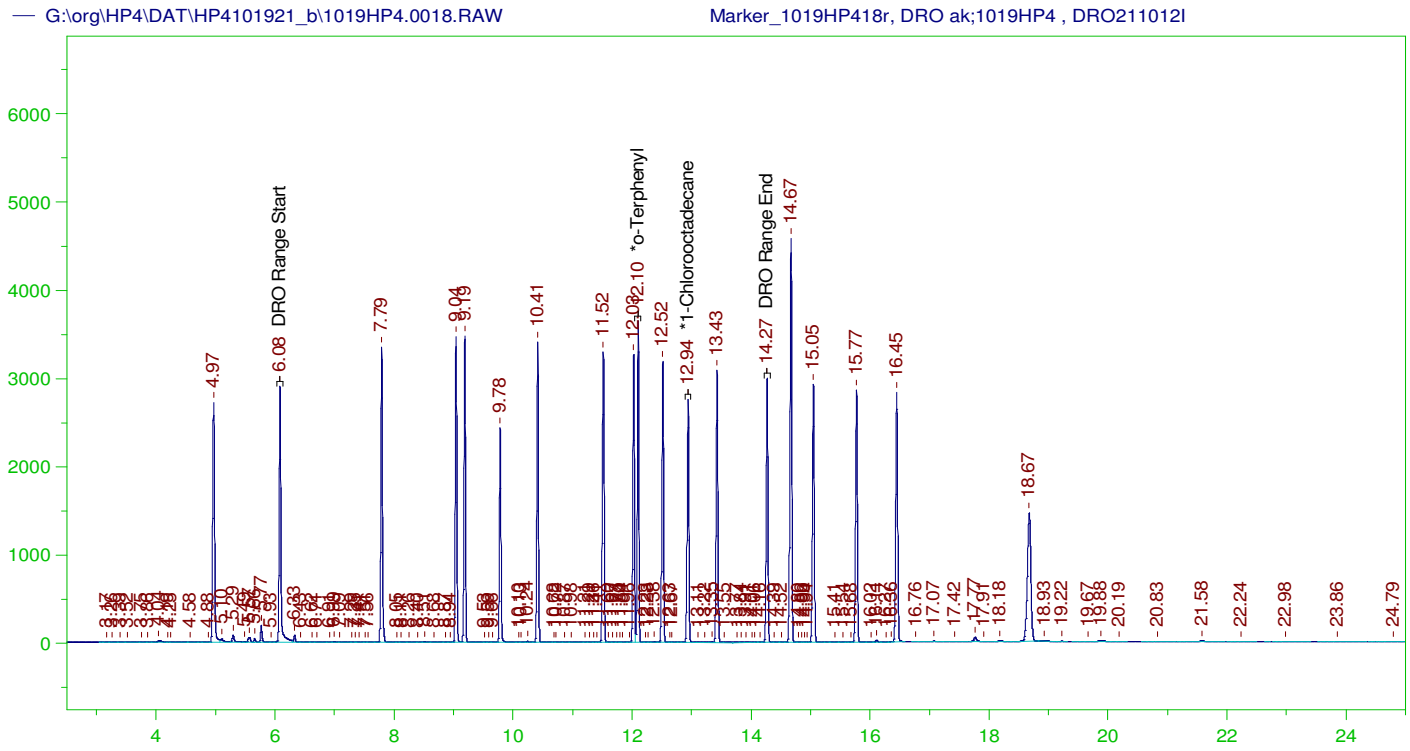


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: Marker_1019HP418r, DRO ak;1019HP4 , DRO211012I
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0018.RAW
Date & Time Acquired: 10/20/2021 12:40:08 AM
Method File: G:\Org\HP4\methods\DC_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.101 | .2 | .214 | 107.04 | - |
| *1-Chlorooctadecane | 12.94 | .2 | .176 | 88.08 | - |

DRO Area:6.655976E+07 DRO Amount: 2.557085
TEH Area:1.091782E+08 TEH Amount: 4.194394

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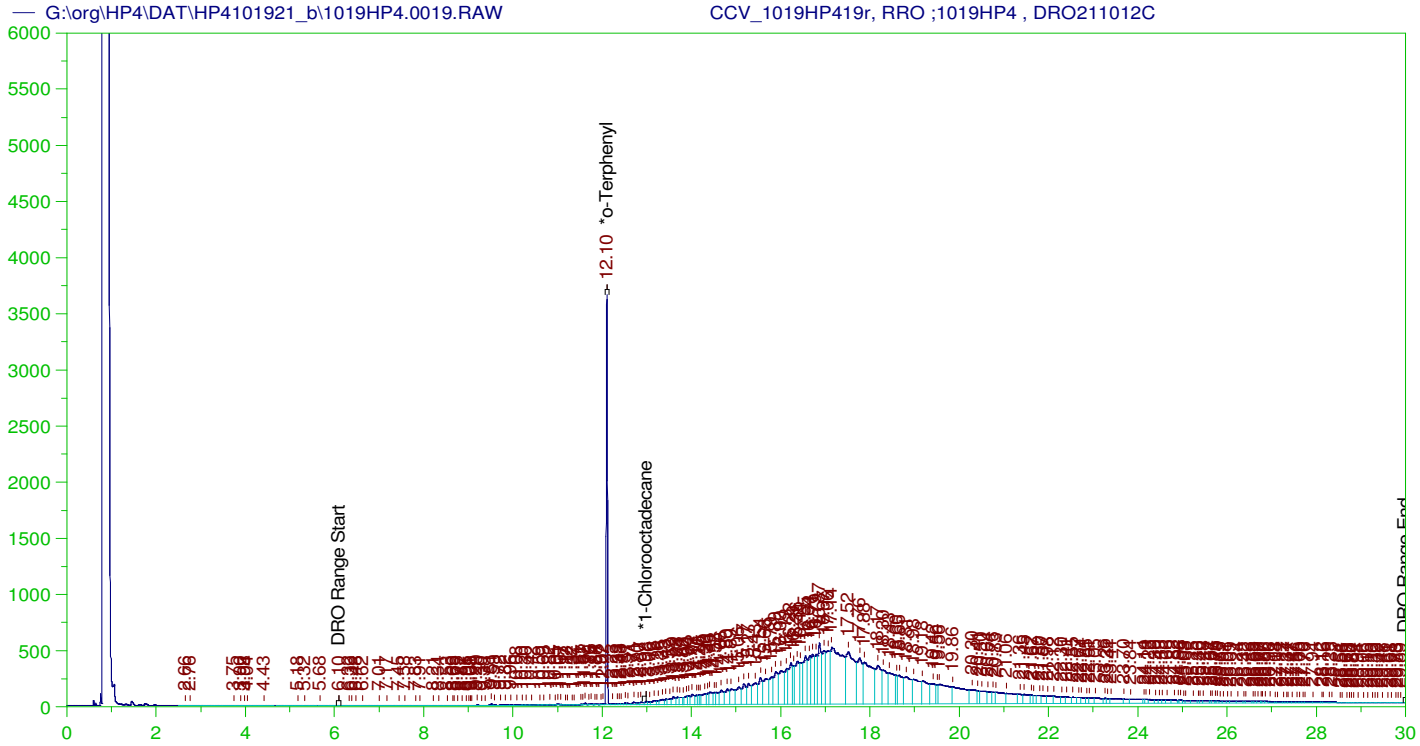


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP419r, RRO ;1019HP4 , DRO211012C
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0019.RAW
Date & Time Acquired: 10/20/2021 1:25:19 AM
Method File: G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.102 | 200. | 216.291 | 108.15 | - |
| *1-Chlorooctadecane | 12.98 | 200. | 4.103 | 2.05 | - |

DRO Area:1.206984E+08 DRO Amount: 4920.528
TEH (Oil Range) Area:1.207374E+08 TEH (Oil Range) Amount: 4922.119

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4922.12 | 98.44 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.102 | 200. | 216.291 | 108.15 | 85-115 |
| *1-Chlorooctadecane | 12.98 | 200. | 4.103 | 2.05 | 85-115 |

AMN 10/25/2021

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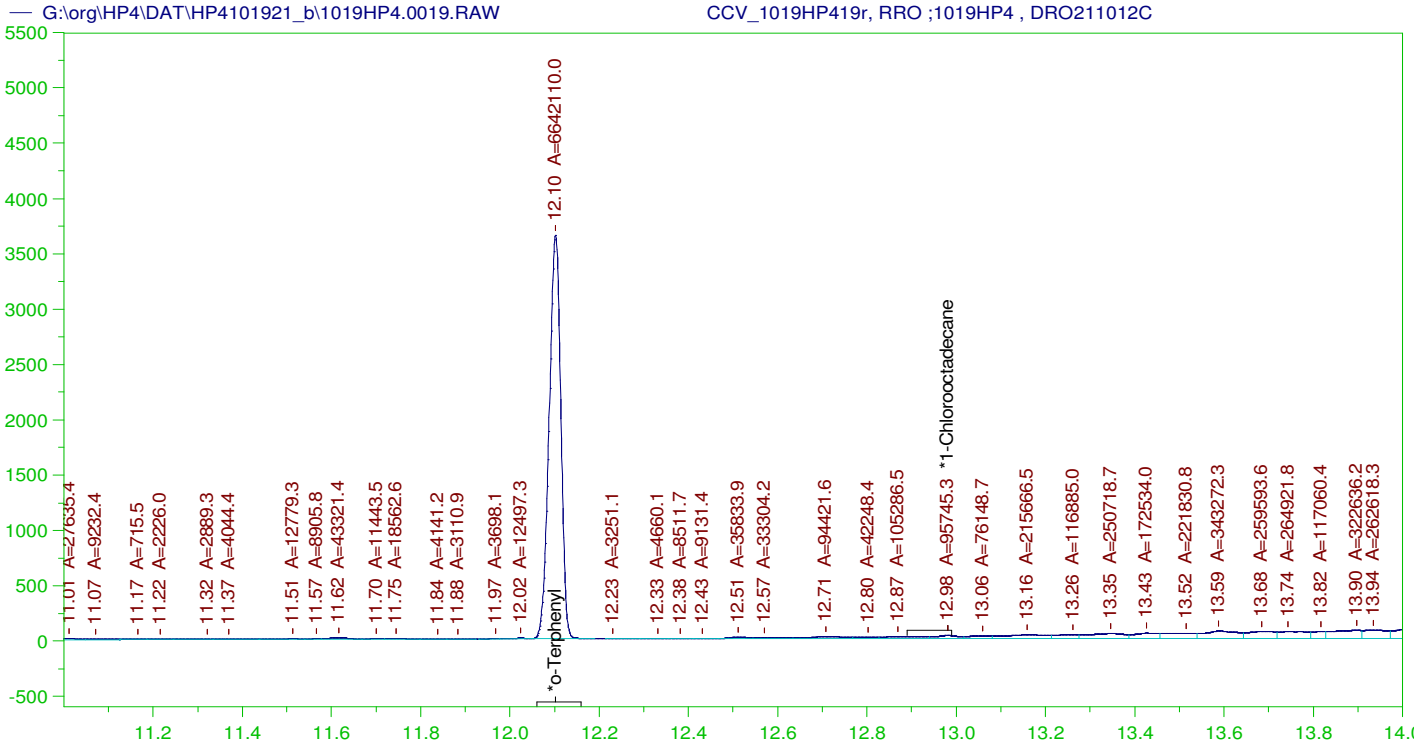


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP419r, RRO ;1019HP4 , DRO211012C
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0019.RAW
Date & Time Acquired: 10/20/2021 1:25:19 AM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.102 | 200. | 214.479 | 107.24 | - |
| *1-Chlorooctadecane | 12.98 | 200. | 3.092 | 1.55 | - |

DRO Area:1.168503E+08 DRO Amount: 4763.653
TEH Area:1.168893E+08 TEH Amount: 4765.243

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0019.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4765.24 | 95.3 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.102 | 200. | 214.479 | 107.24 | 85-115 |
| *1-Chlorooctadecane | 12.98 | 200. | 3.092 | 1.55 | 85-115 |

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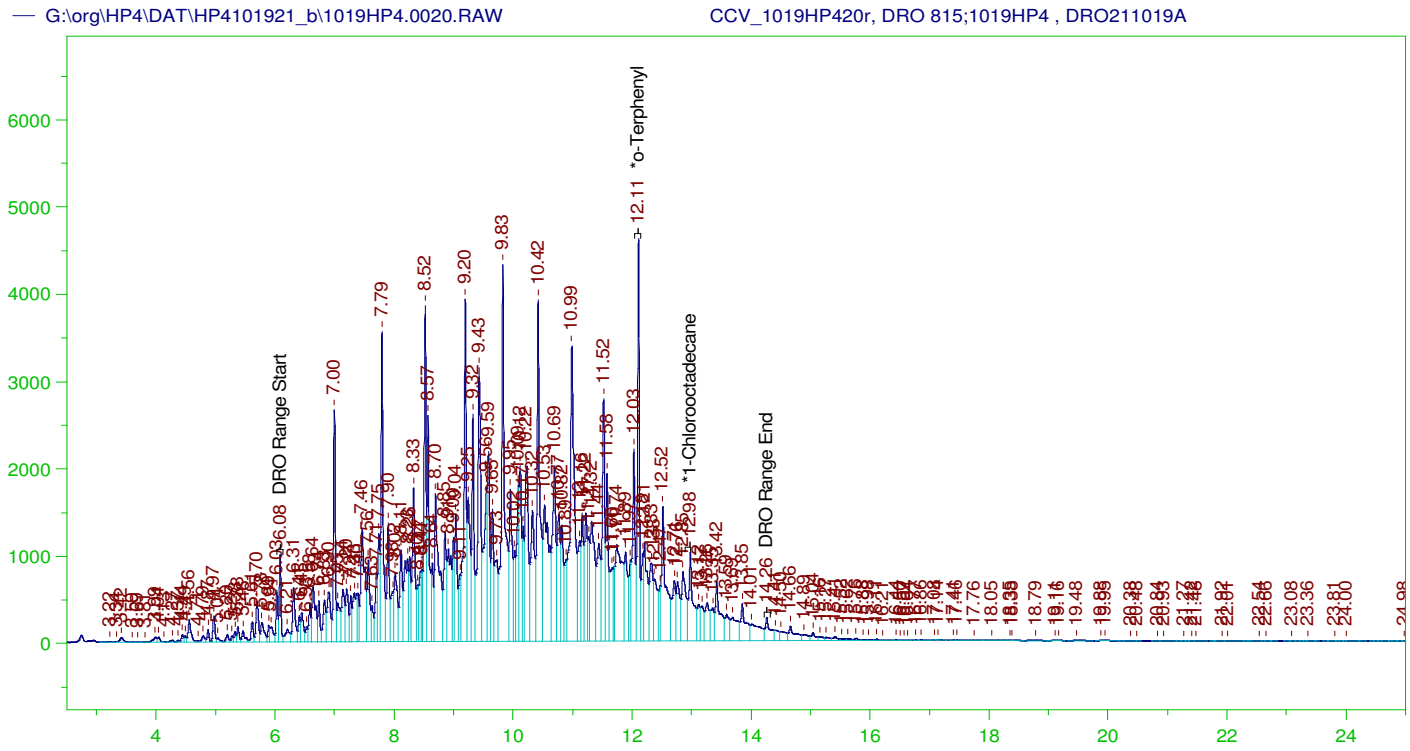


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP420r, DRO 815;1019HP4 , DRO211019A
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0020.RAW
Date & Time Acquired: 10/20/2021 2:10:29 AM
Method File: G:\Org\HP4\methods\DC_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.108 | 200. | 347.301 | 173.65 | - |
| *1-Chlorooctadecane | 12.979 | 200. | 163.919 | 81.96 | - |

DRO Area:4.216953E+08 DRO Amount: 16200.64
TEH Area:4.363356E+08 TEH Amount: 16763.09

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 16763.09 | 111.75 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.108 | 200. | 347.301 | 173.65 | 85-115 |
| *1-Chlorooctadecane | 12.979 | 200. | 163.919 | 81.96 | 85-115 |

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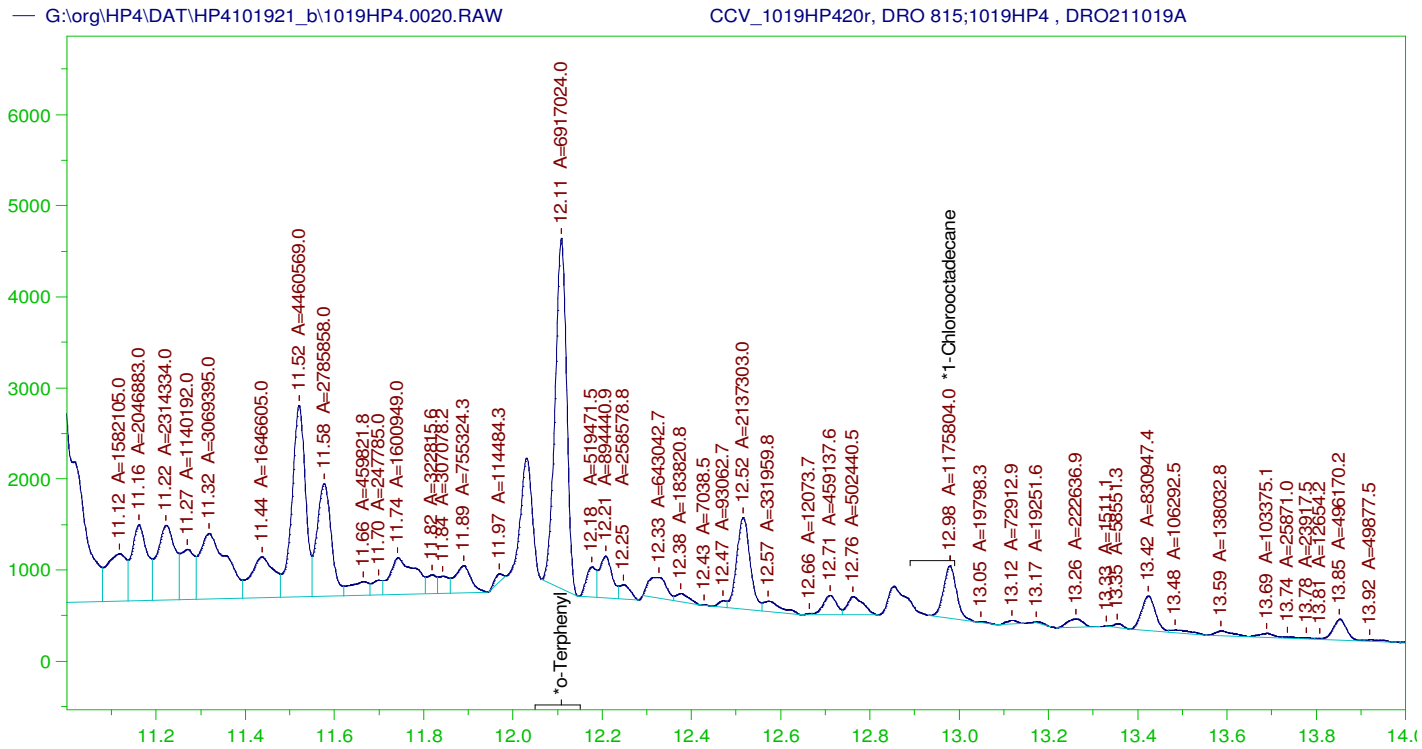


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP420r, DRO 815;1019HP4 , DRO211019A
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0020.RAW
Date & Time Acquired: 10/20/2021 2:10:29 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.108 | 200. | 223.356 | 111.68 | - |
| *1-Chlorooctadecane | 12.979 | 200. | 37.968 | 18.98 | - |

DRO Area:2.312356E+08 DRO Amount: 8883.582
TEH Area:2.402081E+08 TEH Amount: 9228.287

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9228.29 | 61.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.108 | 200. | 223.356 | 111.68 | 85-115 |
| *1-Chlorooctadecane | 12.979 | 200. | 37.968 | 18.98 | 85-115 |

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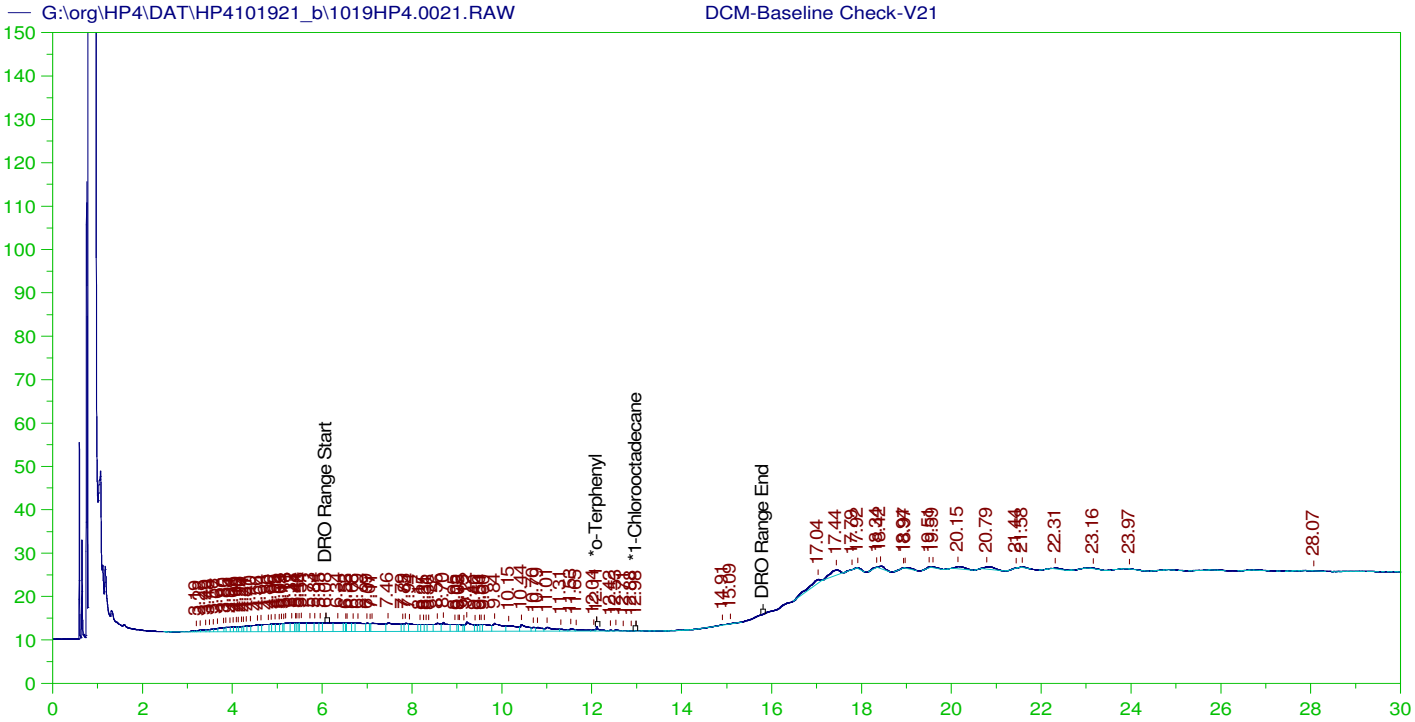


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V21
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0021.RAW
Date & Time Acquired: 10/20/2021 2:55:43 AM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.11 | 200. | .158 | .08 | - |
| *1-Chlorooctadecane | 12.985 | 200. | .029 | .01 | - |

DRO Area:501381.7 DRO Amount: 19.26202
TEH Area:829412.1 TEH Amount: 31.86425

G:\org\HP4\dat\HP4101921_b\Review\021_DCM-Baseline Chec_DR_8015-MZ-LEXP.xls

**ERH1710 (RHMW16A)** Batch ID: 160450

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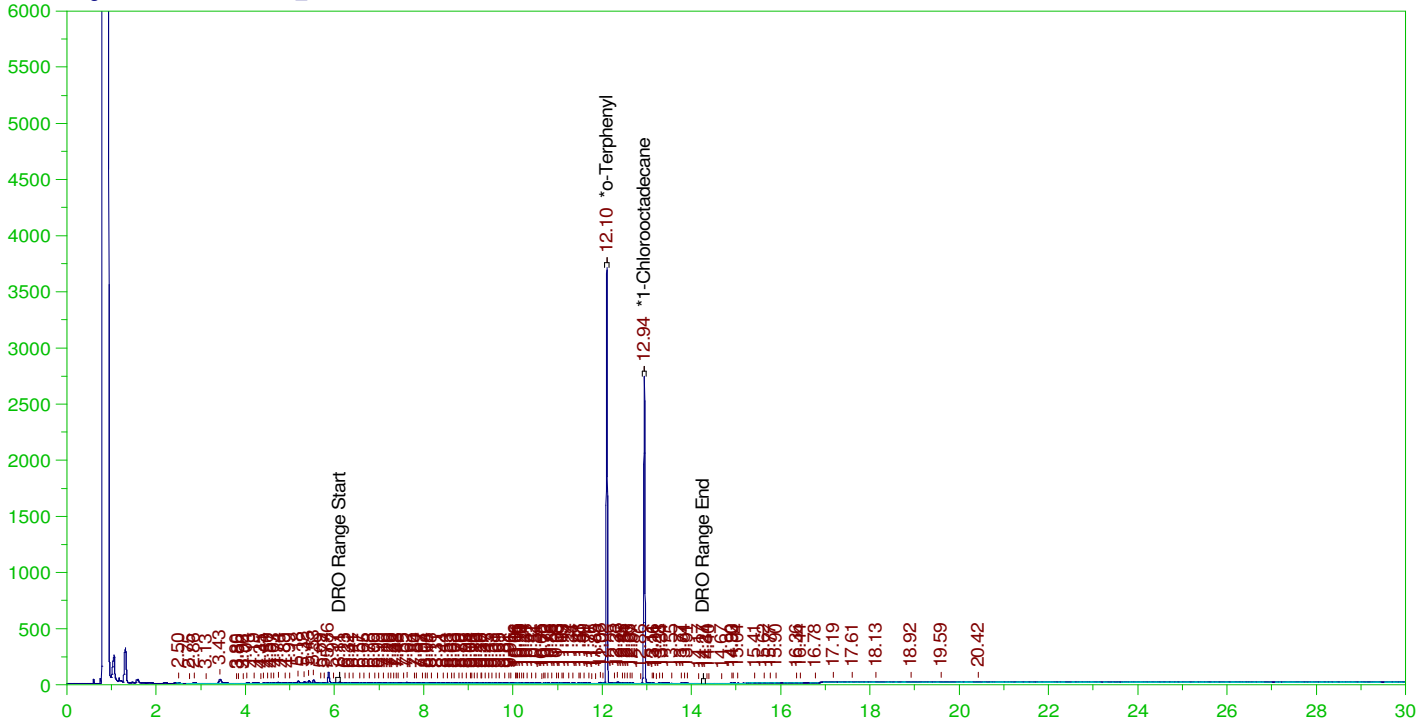


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101279-001B ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0022.RAW
Date & Time Acquired: 10/20/2021 3:40:51 AM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.101 | .191 | .207 | 108.18 | - |
| *1-Chlorooctadecane | 12.94 | .191 | .165 | 86.37 | - |

DRO Area:960205.2 DRO Amount: 3.530052E-02
TEH Area:1970778 TEH Amount: 7.245273E-02

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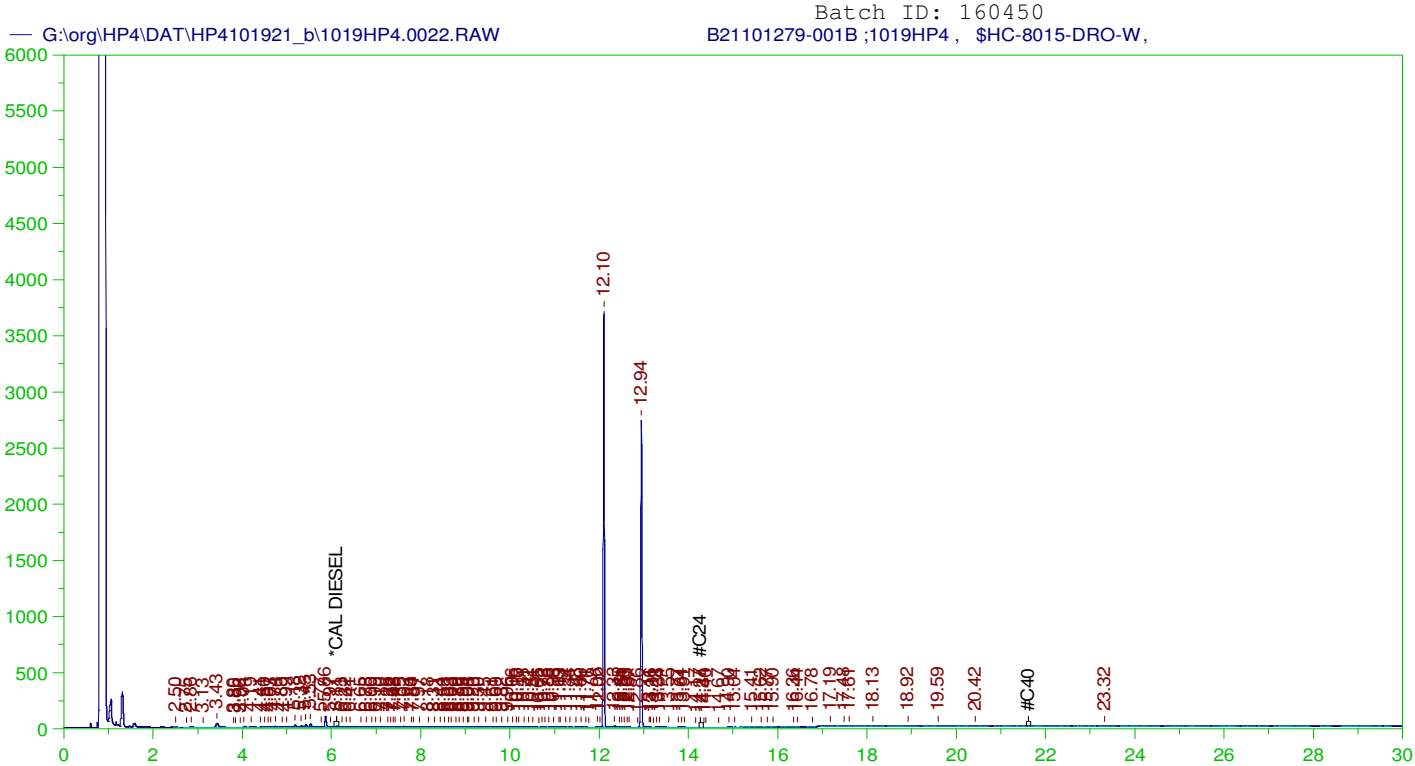
Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101279-001B ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0022.RAW
Date & Time Acquired: 10/20/2021 3:40:51 AM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:54518.55 RRO AMOUNT: 2.126857E-03

**ERH1710 (RHMW16A)** Batch ID: 160450

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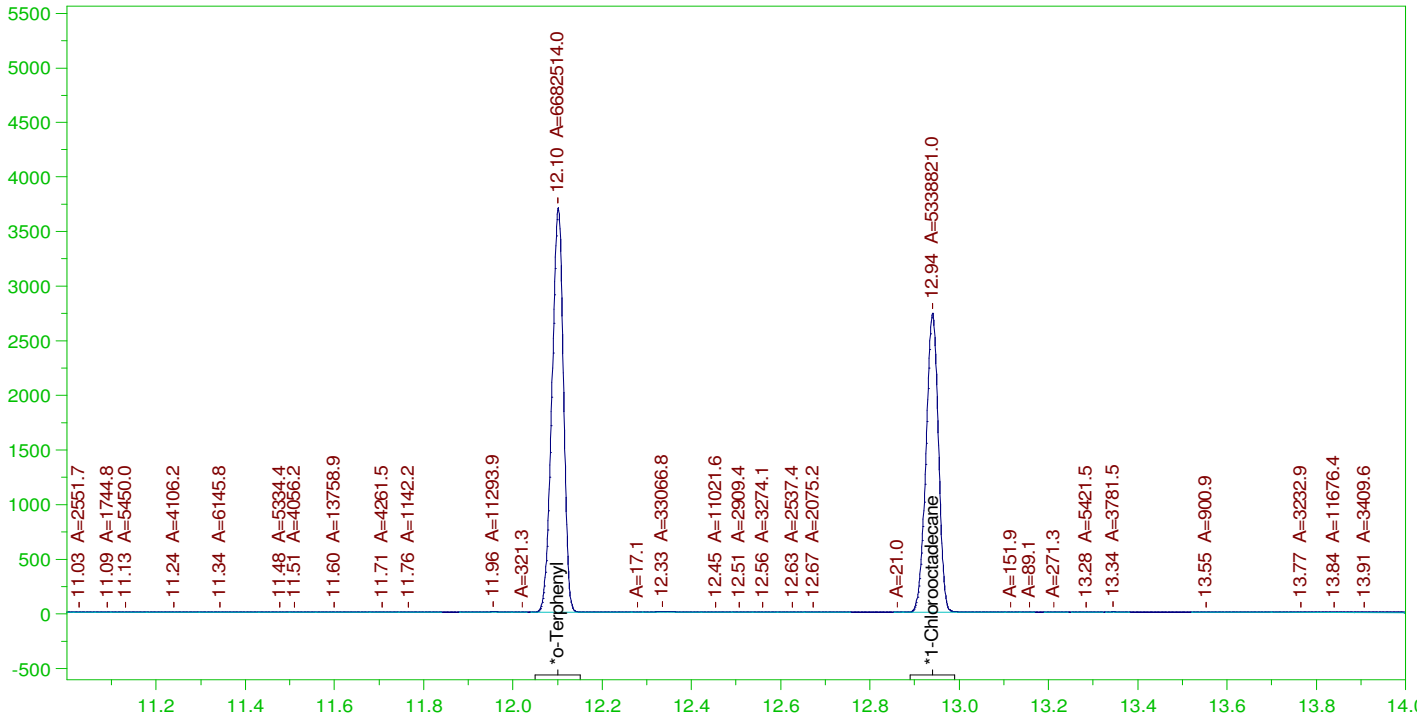



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

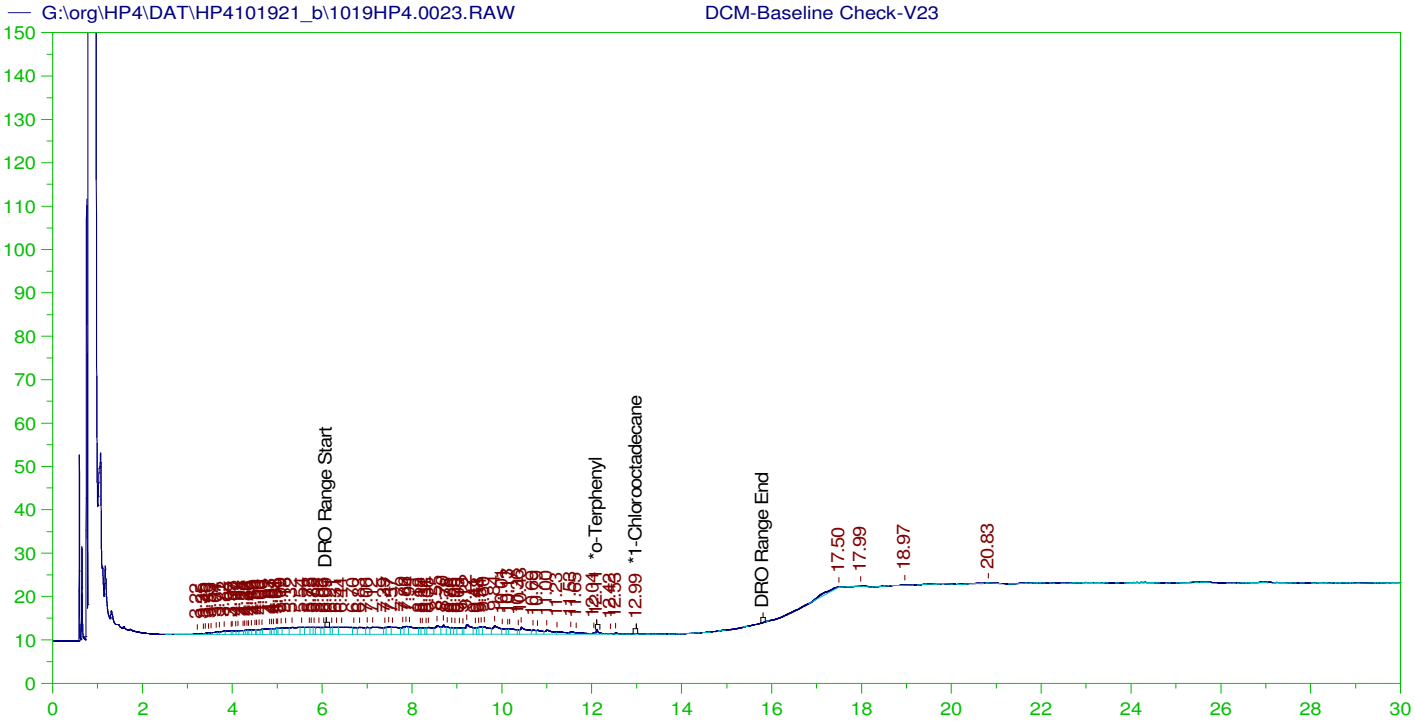
Sample Name: B21101279-001B ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0022.RAW
Date & Time Acquired: 10/20/2021 3:40:51 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.101 | .191 | .206 | 107.89 | - |
| *1-Chlorooctadecane | 12.94 | .191 | .165 | 86.2 | - |

DRO Area:728399.6 DRO Amount: 2.677853E-02
TEH Area:1689073 TEH Amount: 6.209626E-02

G:\org\HP4\dat\HP4101921_b\Review\022_B21101279-001B_DS_8015-24-NA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V23
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0023.RAW
Date & Time Acquired: 10/20/2021 4:26:00 AM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

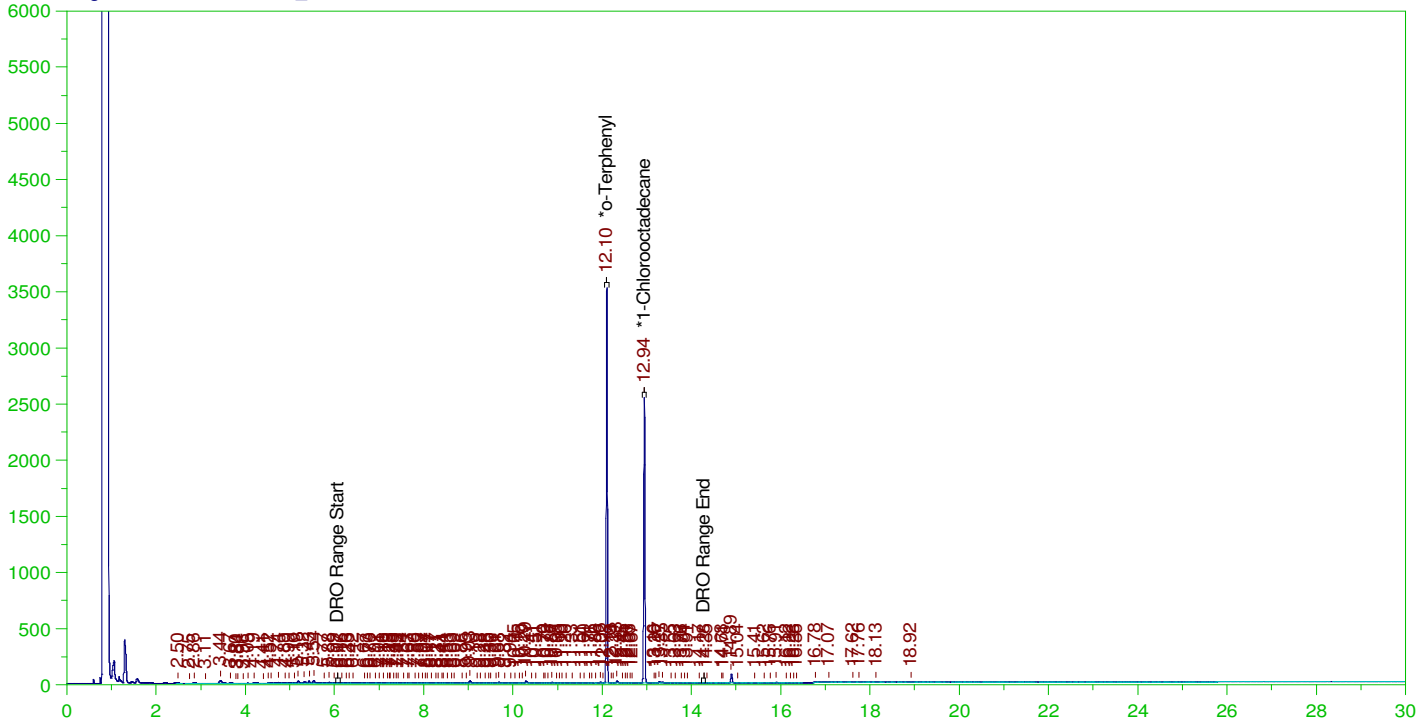
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.111 | 200. | .128 | .06 | - |
| *1-Chlorooctadecane | 12.993 | 200. | .041 | .02 | - |

DRO Area:466437.8 DRO Amount: 17.91955
TEH Area:681281.9 TEH Amount: 26.17341

G:\org\HP4\dat\HP4101921_b\Review\023_DCM-Baseline Chec_DR_8015-MZ-LEXP.xls

**ERH1698 (RHMW07)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0024.RAW B21101291-001B ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101291-001B ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0024.RAW
Date & Time Acquired: 10/20/2021 5:11:06 AM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 990 Dilution: 1 S.A.: 1

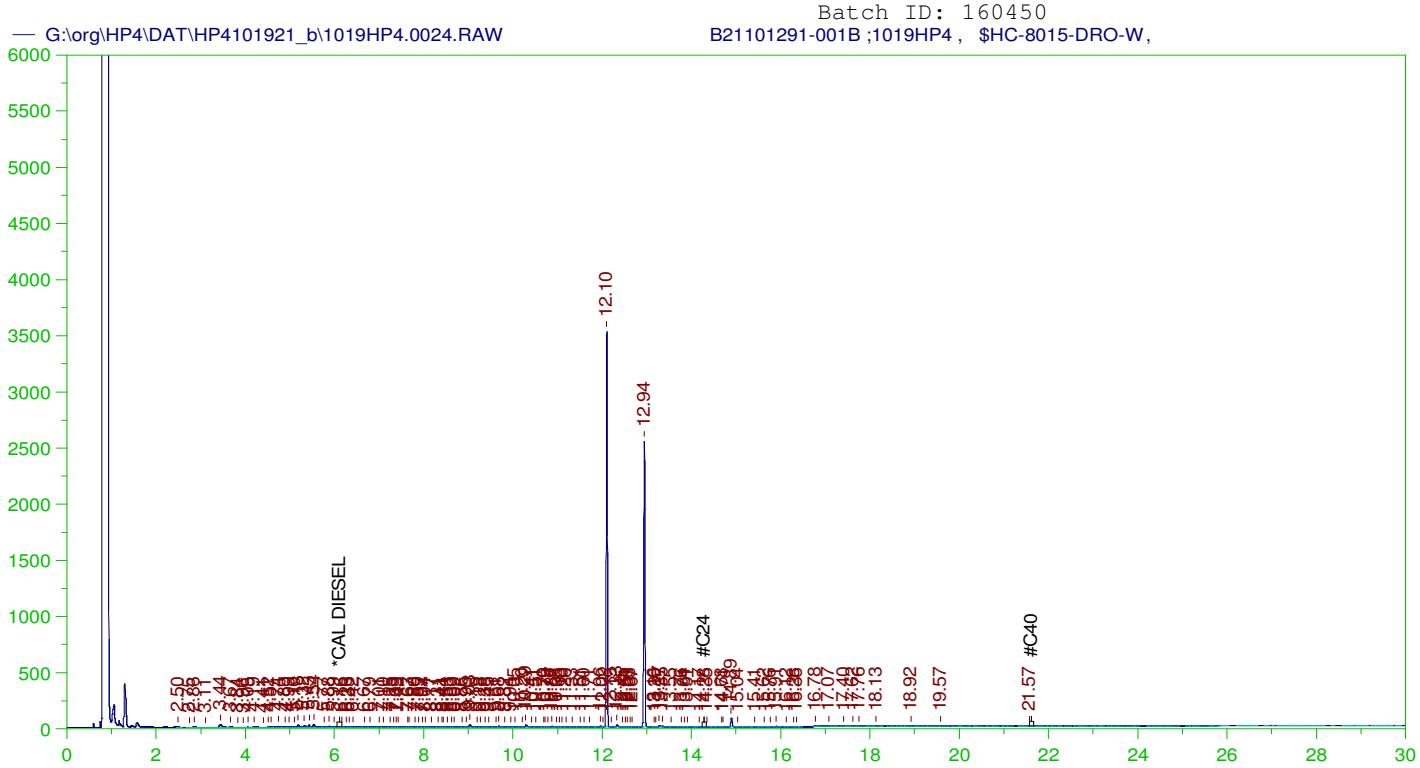
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.101 | .202 | .206 | 101.85 | - |
| *1-Chlorooctadecane | 12.94 | .202 | .165 | 81.46 | - |

DRO Area:1075369 DRO Amount: 4.173068E-02
TEH Area:1939534 TEH Amount: 7.526545E-02

G:\org\HP4\dat\HP4101921_b\Review\024_B21101291-001B_DR_8015-24-NA-L%.xls

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101291-001B ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0024.RAW
Date & Time Acquired: 10/20/2021 5:11:06 AM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:209329.3 RRO AMOUNT: 8.619956E-03

G:\org\HP4\dat\HP4101921_b\Review\024_B21101291-001B_DR_8015-OILS-AC-L%.xls

**ERH1698 (RHMW07)** Batch ID: 160450

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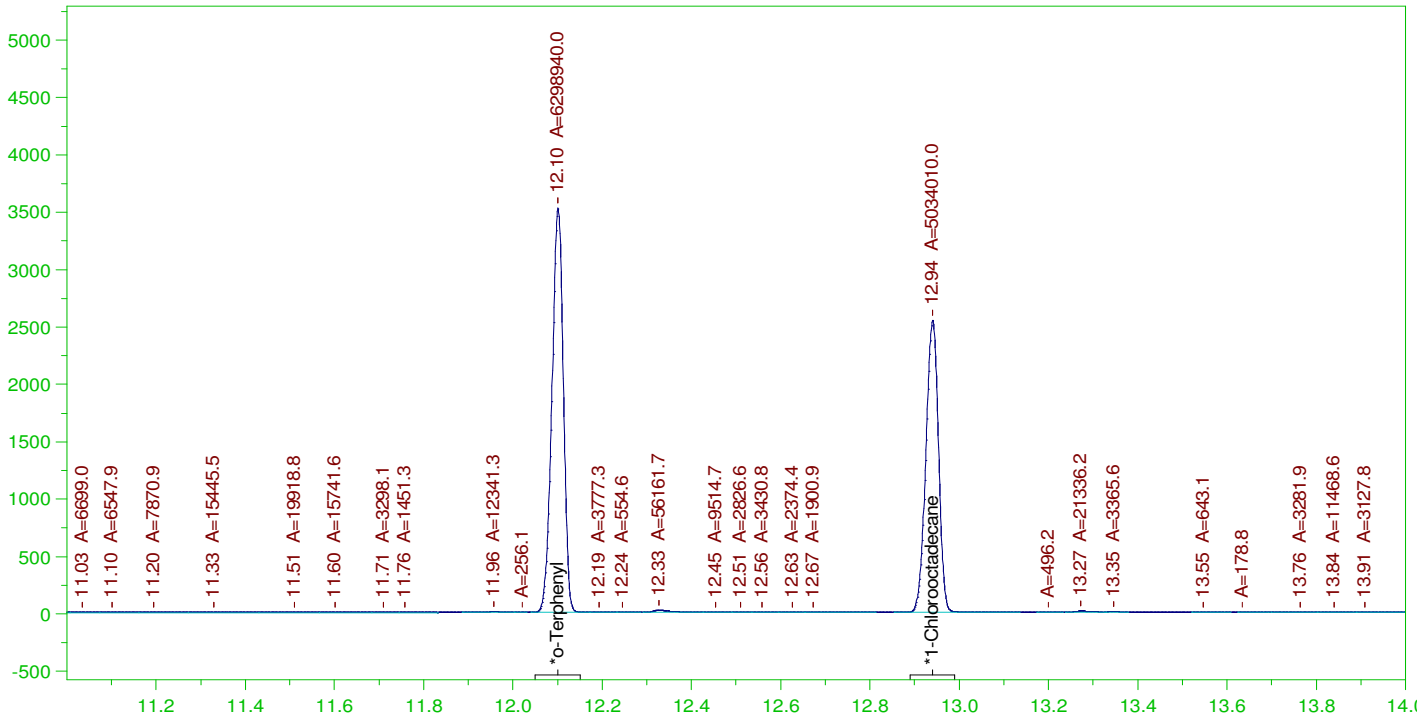


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101291-001B ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0024.RAW
Date & Time Acquired: 10/20/2021 5:11:06 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.101 | .202 | .205 | 101.7 | - |
| *1-Chlorooctadecane | 12.94 | .202 | .164 | 81.28 | - |

DRO Area:913903.3 DRO Amount: 3.546488E-02
TEH Area:1752426 TEH Amount: 6.800455E-02

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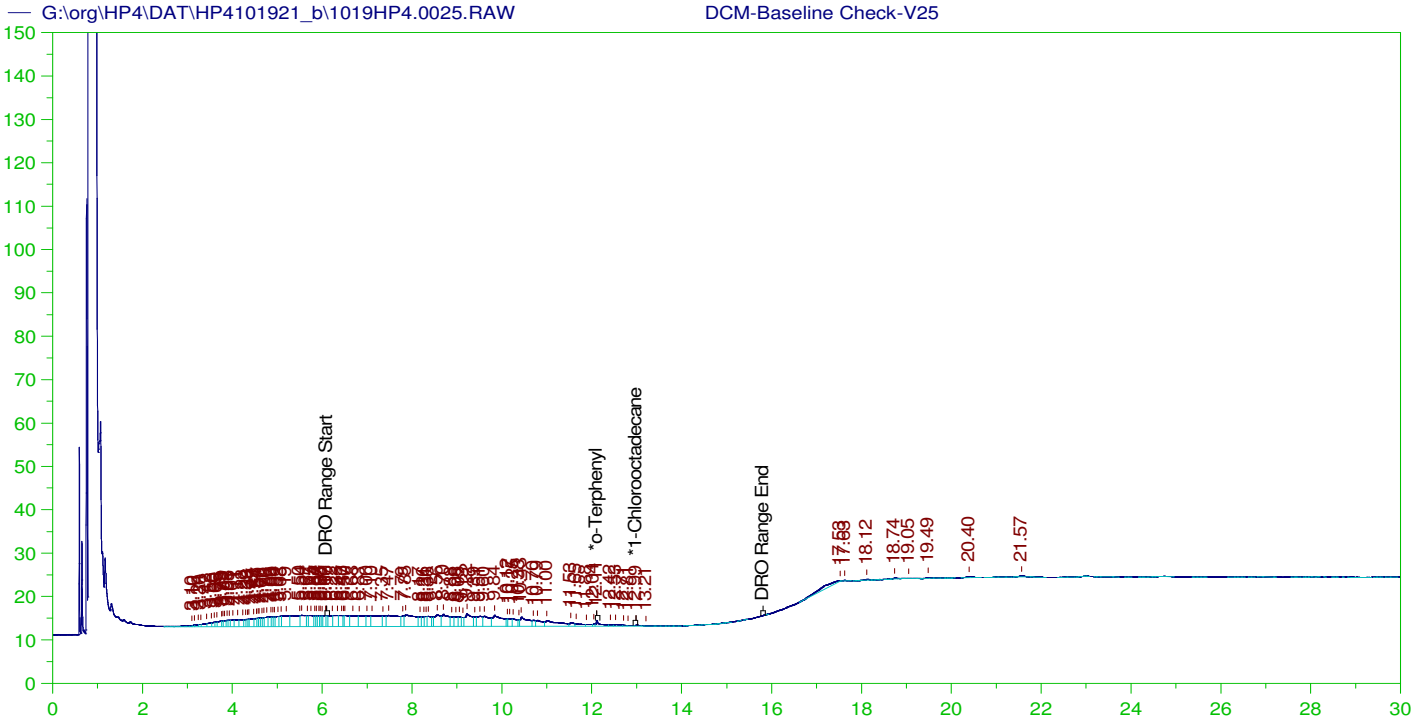



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V25
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0025.RAW
Date & Time Acquired: 10/20/2021 5:56:15 AM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

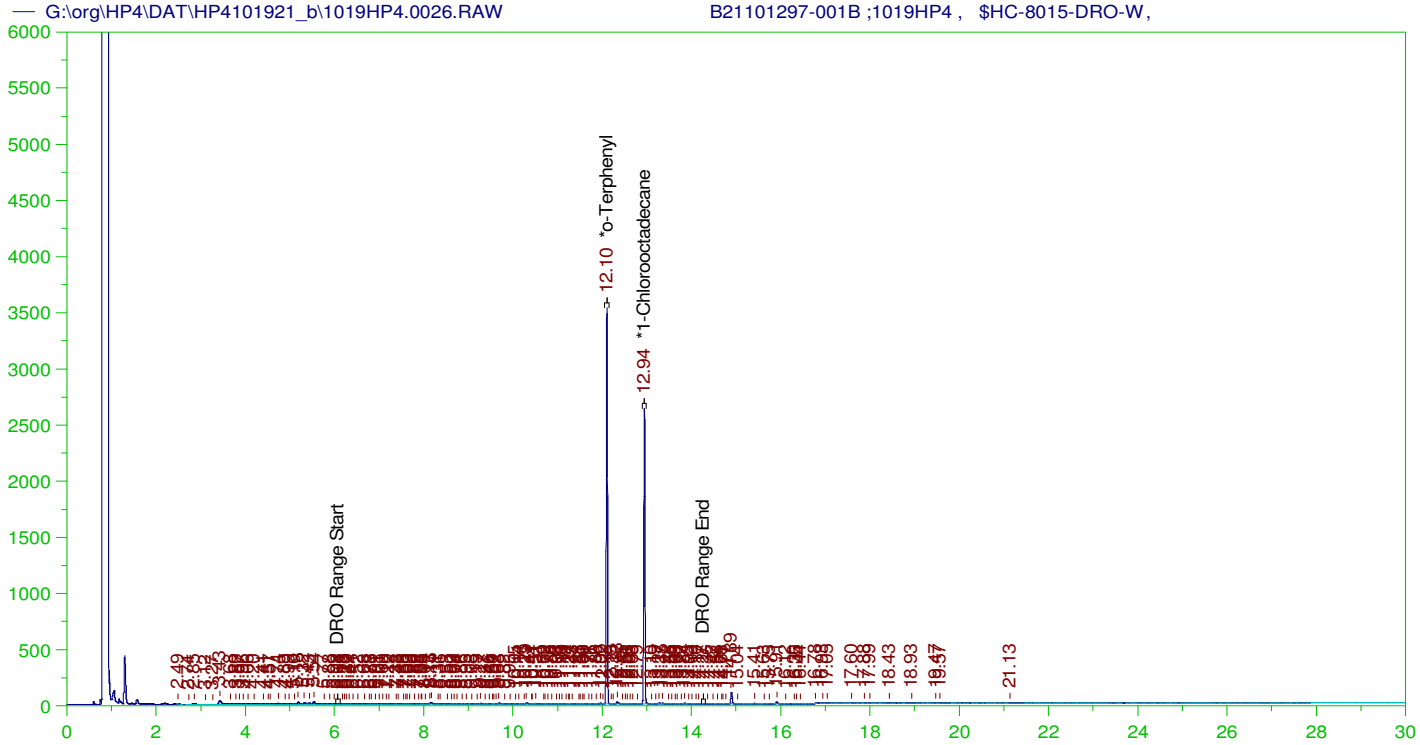
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.113 | 200. | .29 | .14 | - |
| *1-Chlorooctadecane | 12.99 | 200. | .053 | .03 | - |

DRO Area:697207.3 DRO Amount: 26.78522
TEH Area:1046558 TEH Amount: 40.20654

G:\org\HP4\dat\HP4101921_b\Review\025_DCM-Baseline Chec_DR_8015-MZ-LEXP.xls

**ERH1708 (RHMW16)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0026.RAW B21101297-001B ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101297-001B ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0026.RAW
Date & Time Acquired: 10/20/2021 6:41:30 AM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

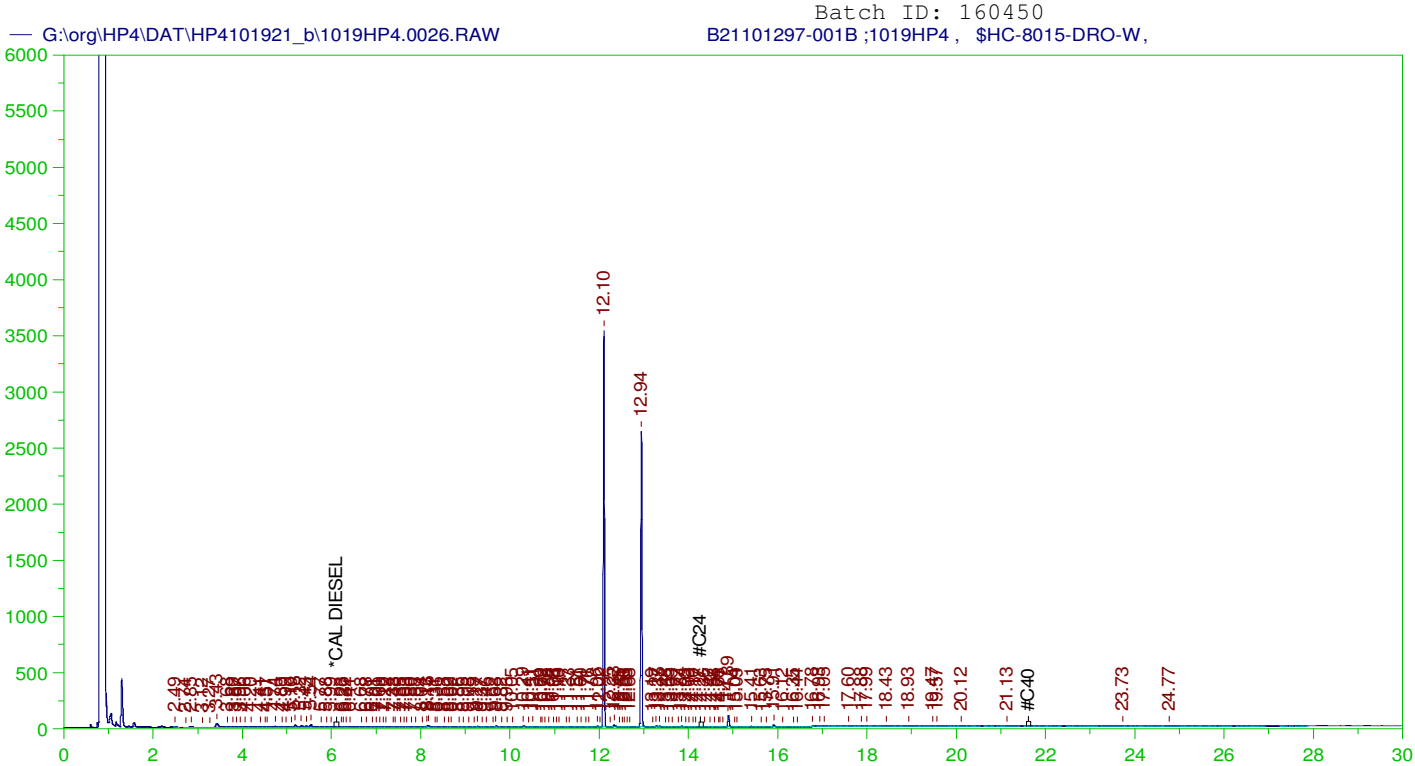
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.102 | .192 | .2 | 104. | - |
| *1-Chlorooctadecane | 12.941 | .192 | .16 | 83.31 | - |

DRO Area:1067708 DRO Amount: 3.944141E-02
TEH Area:2020786 TEH Amount: 7.464838E-02

G:\org\HP4\dat\HP4101921_b\Review\026_B21101297-001B_DR_8015-24-NA-L%.xls

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101297-001B ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0026.RAW
Date & Time Acquired: 10/20/2021 6:41:30 AM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:323608.8 RRO AMOUNT: 1.268519E-02

G:\org\HP4\dat\HP4101921_b\Review\026_B21101297-001B_DR_8015-OILS-AC-L%.xls

**ERH1708 (RHMW16)** Batch ID: 160450

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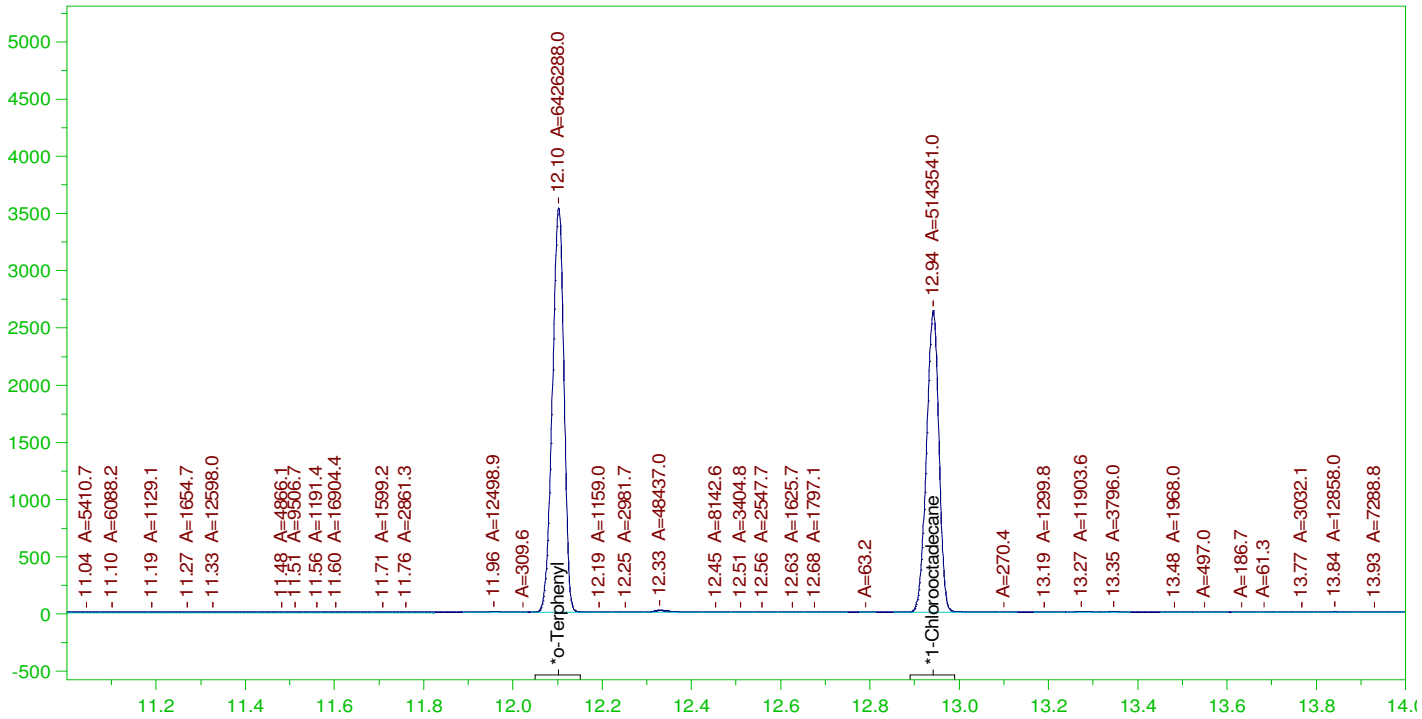



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101297-001B ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0026.RAW
Date & Time Acquired: 10/20/2021 6:41:30 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

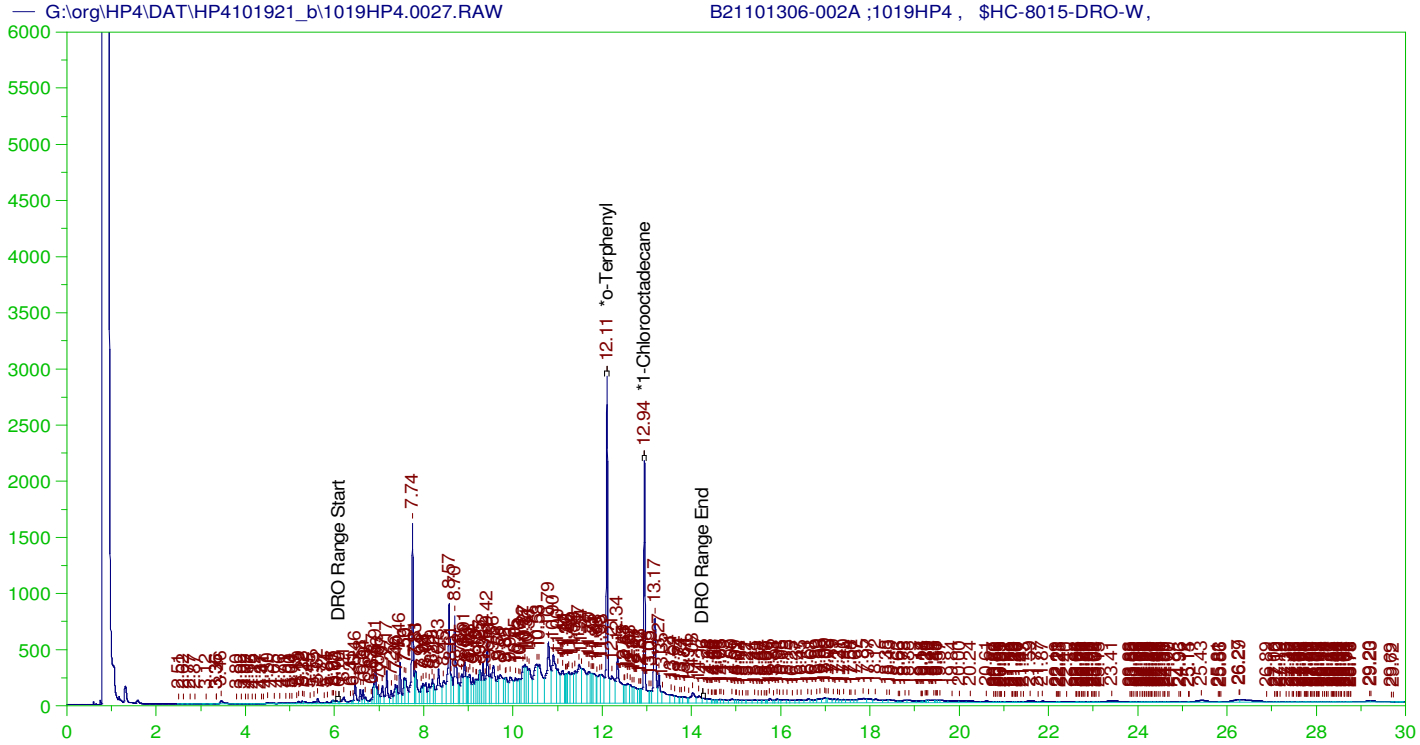
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.102 | .192 | .2 | 103.75 | - |
| *1-Chlorooctadecane | 12.941 | .192 | .16 | 83.04 | - |

DRO Area:862706.7 DRO Amount: 3.186861E-02
TEH Area:1786378 TEH Amount: 6.598927E-02

G:\org\HP4\dat\HP4101921_b\Review\026_B21101297-001B_DS_8015-24-NA-L#.xls

**ERH1807 (RHMW02)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0027.RAW B21101306-002A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-002A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0027.RAW
Date & Time Acquired: 10/20/2021 7:26:05 AM
Method File: G:\Org\HP4\methods\D3_8015-24-101927-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.106 | .192 | .211 | 109.52 | - |
| *1-Chlorooctadecane | 12.943 | .192 | .158 | 82.29 | - |

DRO Area:9.499726E+07 DRO Amount: 3.509224
TEH Area:1.105204E+08 TEH Amount: 4.082652

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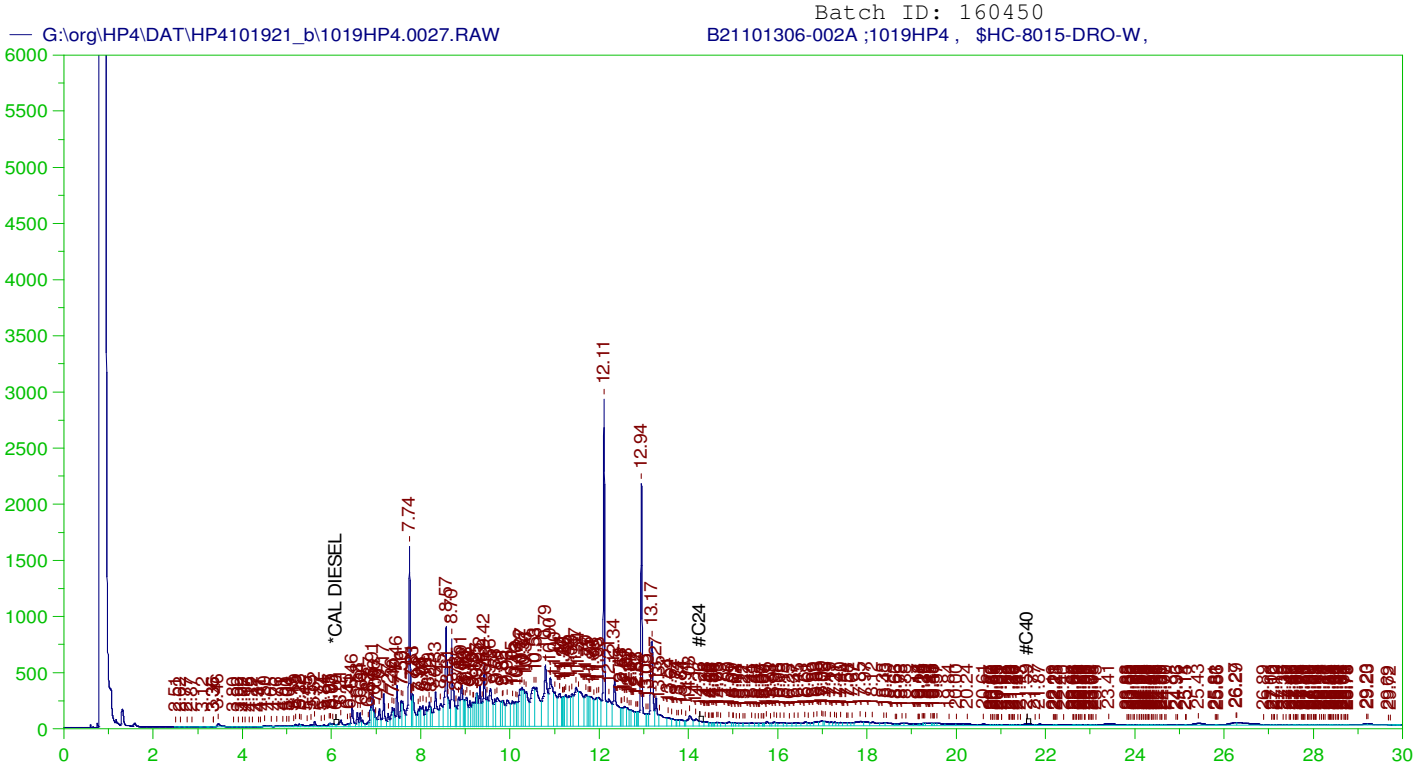
Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-002A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0027.RAW
Date & Time Acquired: 10/20/2021 7:26:05 AM
Method File: G:\Org\HP4\methods\D3_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:1.090794E+07 RRO AMOUNT: 0.4275824

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**ERH1807 (RHMW02)** Batch ID: 160450

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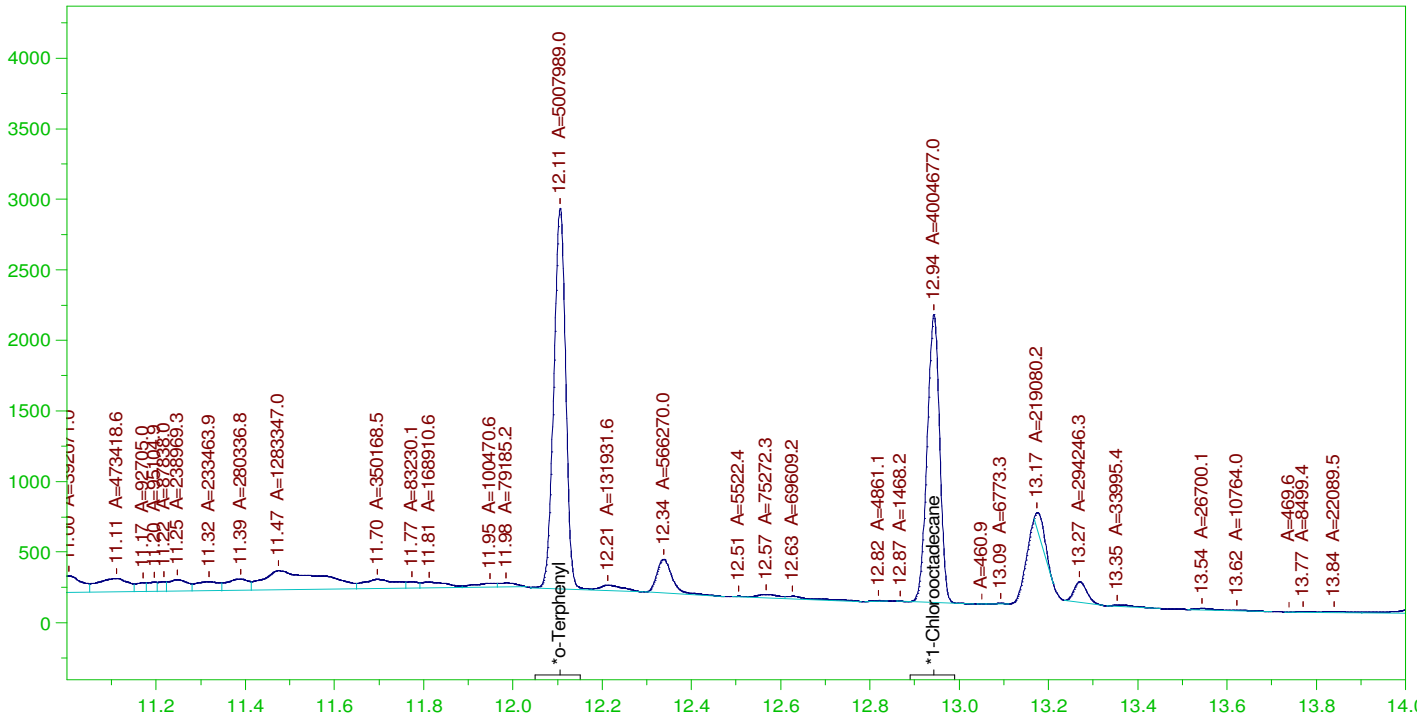



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

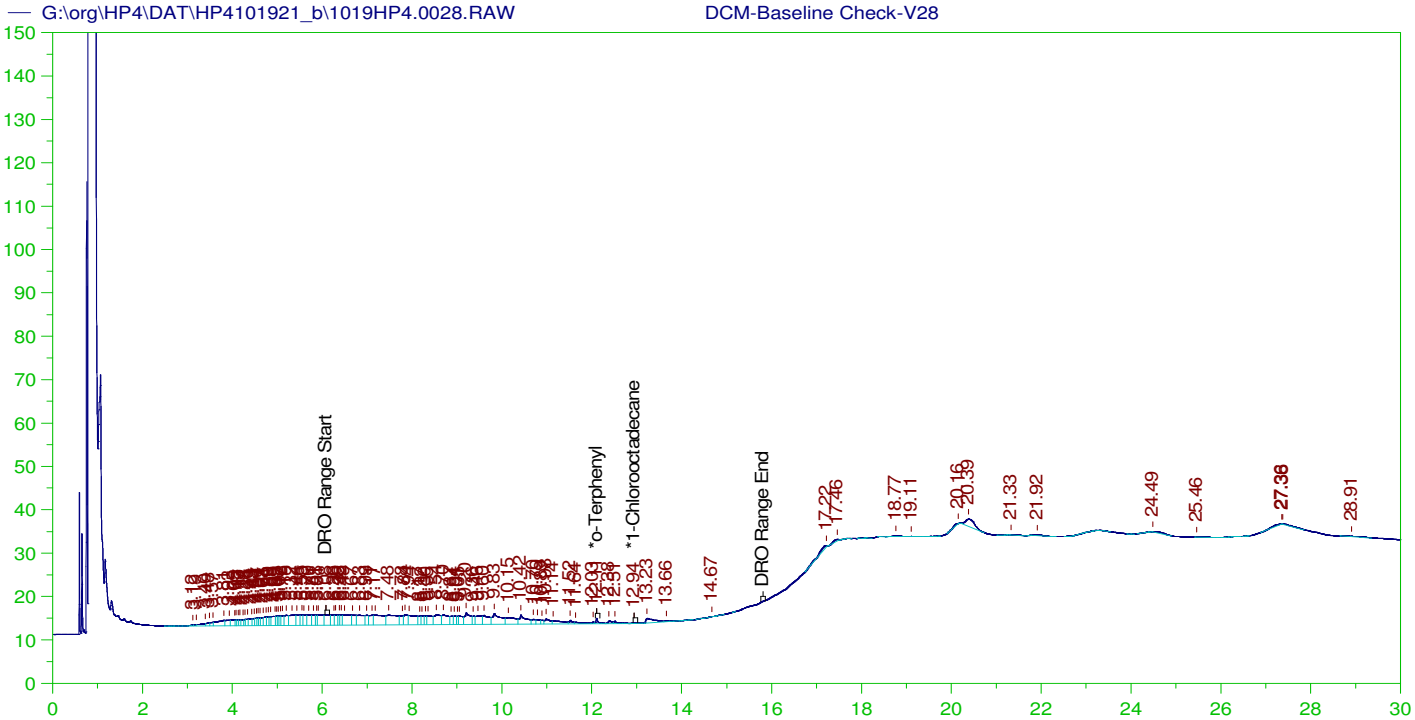
Sample Name: B21101306-002A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0027.RAW
Date & Time Acquired: 10/20/2021 7:26:05 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.106 | .192 | .155 | 80.86 | - |
| *1-Chlorooctadecane | 12.943 | .192 | .124 | 64.66 | - |

DRO Area:3.938078E+07 DRO Amount: 1.454737
TEH Area:4.19695E+07 TEH Amount: 1.550364

G:\org\HP4\dat\HP4101921_b\Review\027_B21101306-002A_DS_8015-24-NA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V28
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0028.RAW
Date & Time Acquired: 10/20/2021 8:10:38 AM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.107 | 200. | .125 | .06 | - |
| *1-Chlorooctadecane | 12.938 | 200. | .033 | .02 | - |

DRO Area:605041.8 DRO Amount: 23.24442
TEH Area:958700.1 TEH Amount: 36.83123

G:\org\HP4\dat\HP4101921_b\Review\028_DCM-Baseline Chec_DR_8015-MZ-LEXP.xls

**ERH1810 (RHMW03)** Batch ID: 160450

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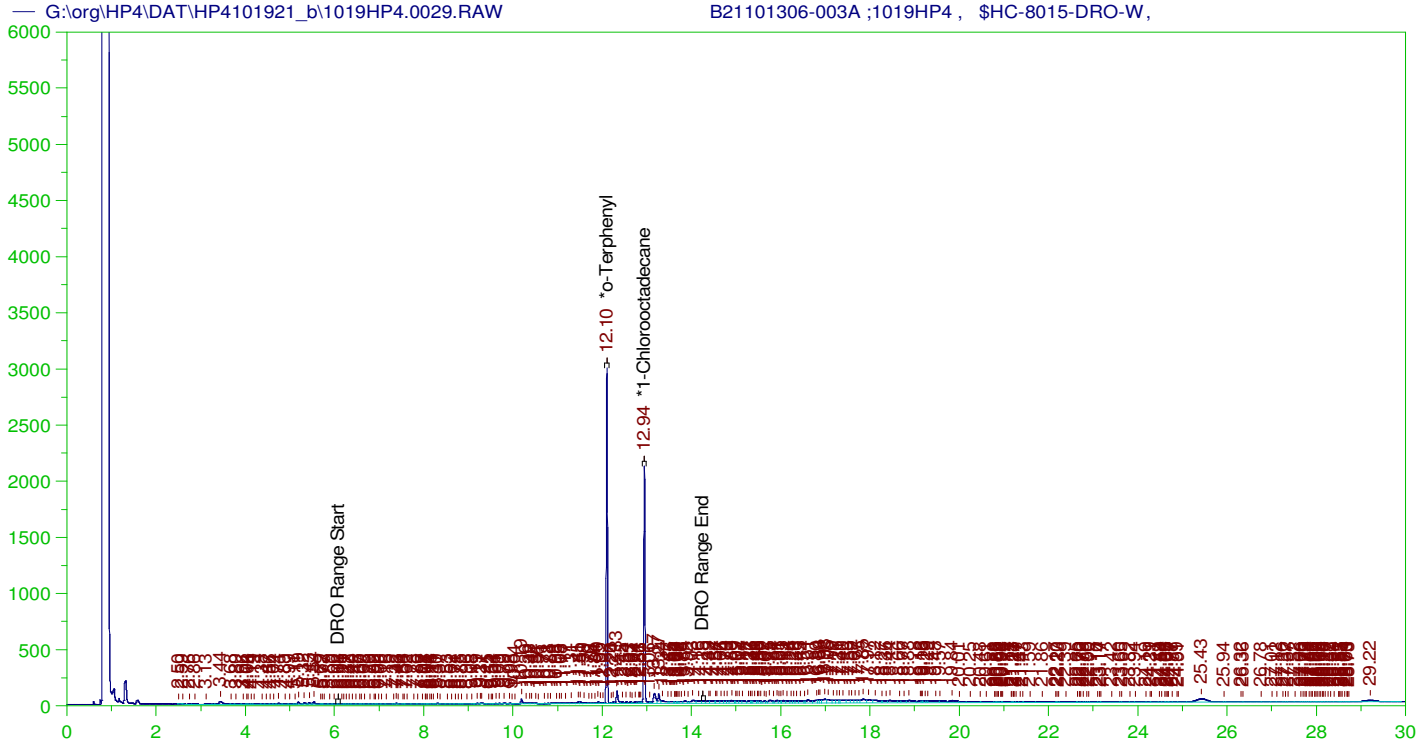



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-003A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0029.RAW
Date & Time Acquired: 10/20/2021 8:55:20 AM
Method File: G:\Org\HP4\methods\D3_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

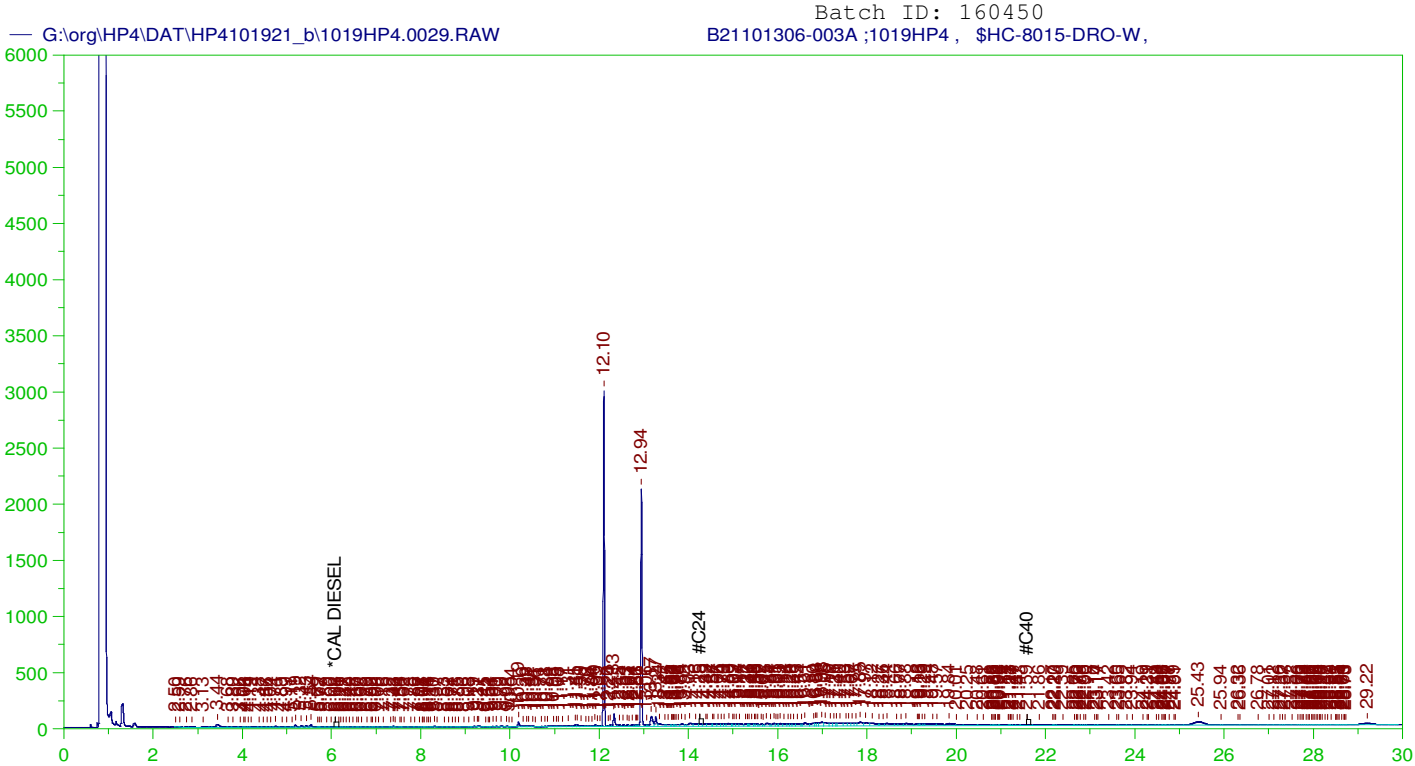
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.102 | .194 | .17 | 87.71 | - |
| *1-Chlorooctadecane | 12.941 | .194 | .133 | 68.52 | - |

DRO Area:3287381 DRO Amount: 0.1226157
TEH Area:1.515567E+07 TEH Amount: 0.5652899

G:\org\HP4\dat\HP4101921_b\Review\029_B21101306-003A_D3_8015-24-NA-L%.xls

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-003A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0029.RAW
Date & Time Acquired: 10/20/2021 8:55:20 AM
Method File: G:\Org\HP4\methods\D3_8015-OILS-101929-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:8359835 RRO AMOUNT: 0.3308801

G:\org\HP4\dat\HP4101921_b\Review\029_B21101306-003A_D3_8015-OILS-101929-AC-L%.xls

**ERH1810 (RHMW03)** Batch ID: 160450

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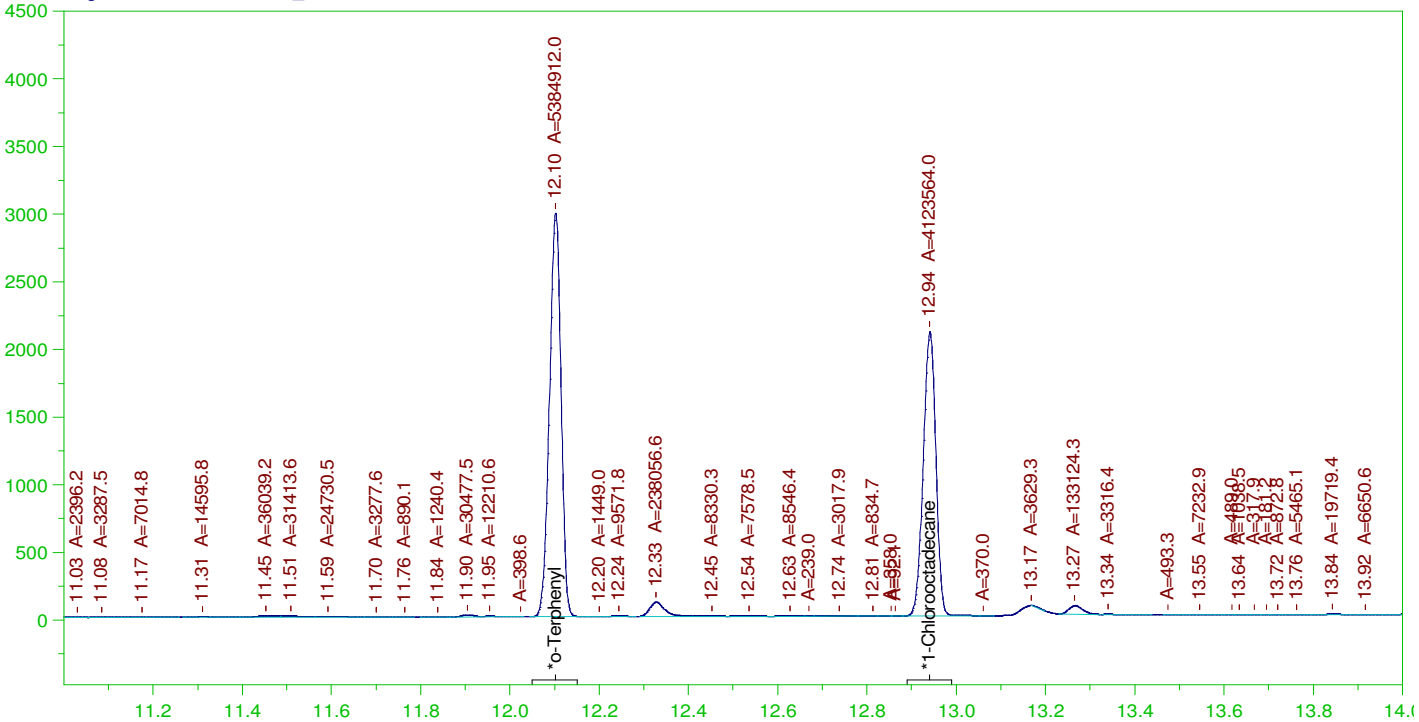



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

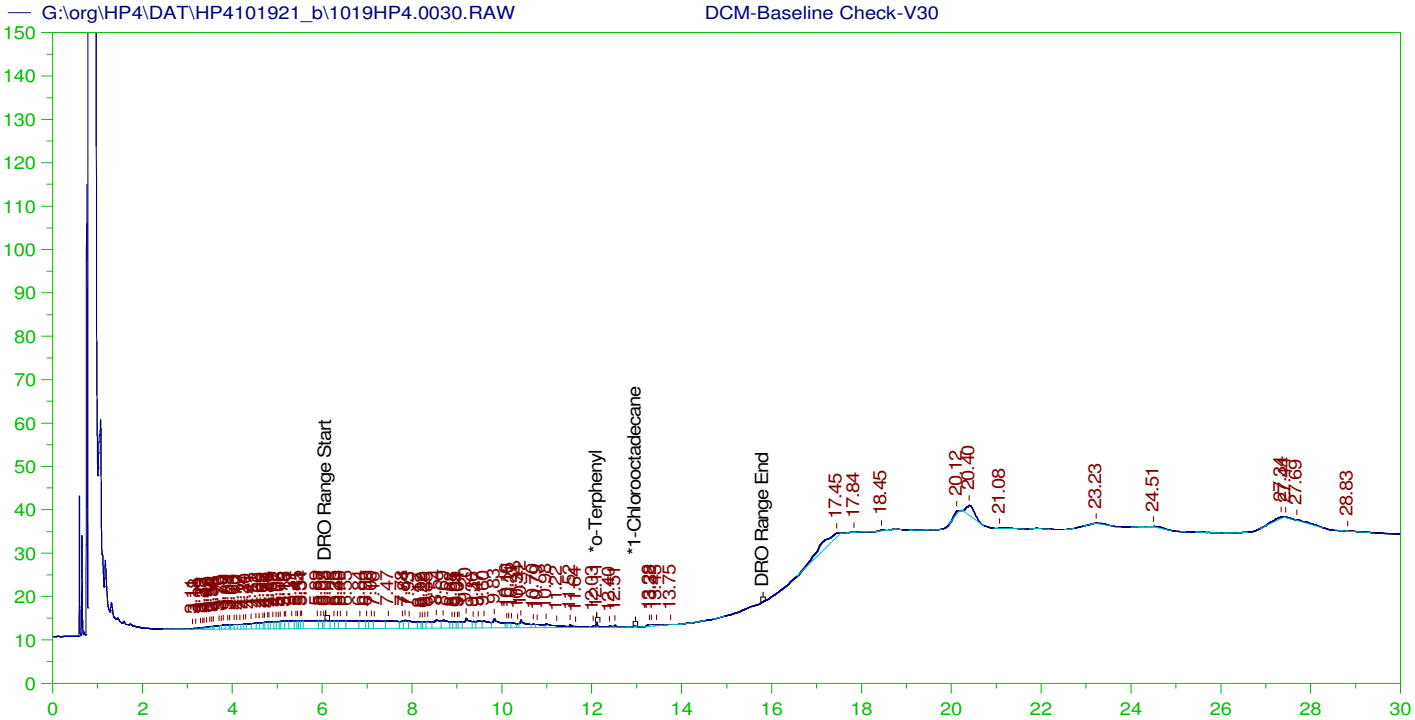
Sample Name: B21101306-003A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0029.RAW
Date & Time Acquired: 10/20/2021 8:55:20 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.102 | .194 | .169 | 86.94 | - |
| *1-Chlorooctadecane | 12.941 | .194 | .129 | 66.58 | - |

DRO Area:1207225 DRO Amount: 4.502819E-02
TEH Area:3287649 TEH Amount: 0.1226257

G:\org\HP4\dat\HP4101921_b\Review\029_B21101306-003A_DS_8015-24-NA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V30
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0030.RAW
Date & Time Acquired: 10/20/2021 9:40:19 AM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

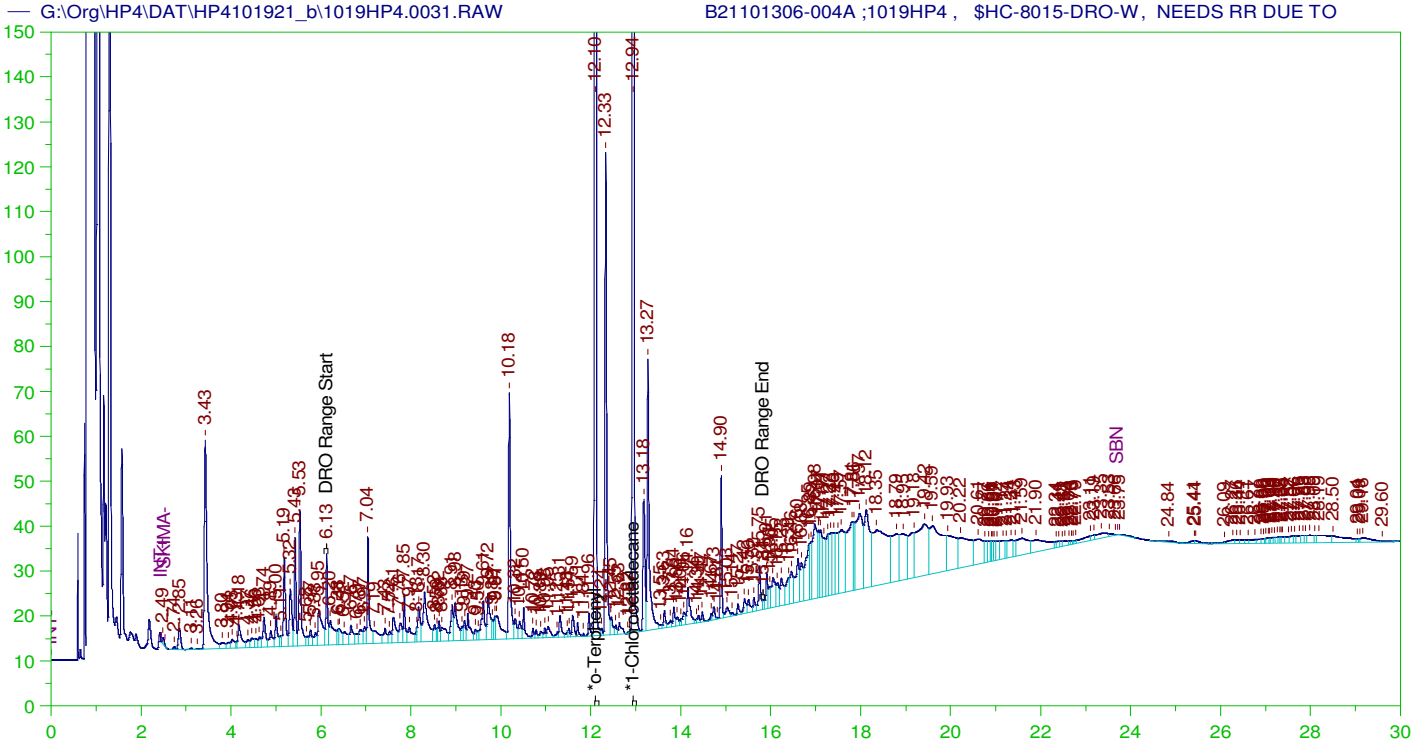
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.107 | 200. | .119 | .06 | - |
| *1-Chlorooctadecane | 28.826 | 200. | . | . | - |

DRO Area:463806.5 DRO Amount: 17.81846
TEH Area:814032.3 TEH Amount: 31.2734

**ERH1813 (RHMW05)** Batch ID: 160450

— G:\Org\HP4\DAT\HP4101921_b\1019HP4.0031.RAW B21101306-004A ;1019HP4 , $HC-8015-DRO-W, NEEDS RR DUE TO




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-004A ;1019HP4 , $HC-8015-DRO-W, NEEDS RR DUE TO
Raw File: G:\Org\HP4\DAT\HP4101921_b\1019HP4.0031.RAW
Date & Time Acquired: 10/20/2021 10:25:27 AM
Method File: G:\Org\HP4\methods\DR_8015-31-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.102 | .194 | .143 | 73.54 | - |
| *1-Chlorooctadecane | 12.941 | .194 | .104 | 53.77 | - |

DRO Area:2095934 DRO Amount: 7.817604E-02
TEH Area:6387288 TEH Amount: 0.2382389

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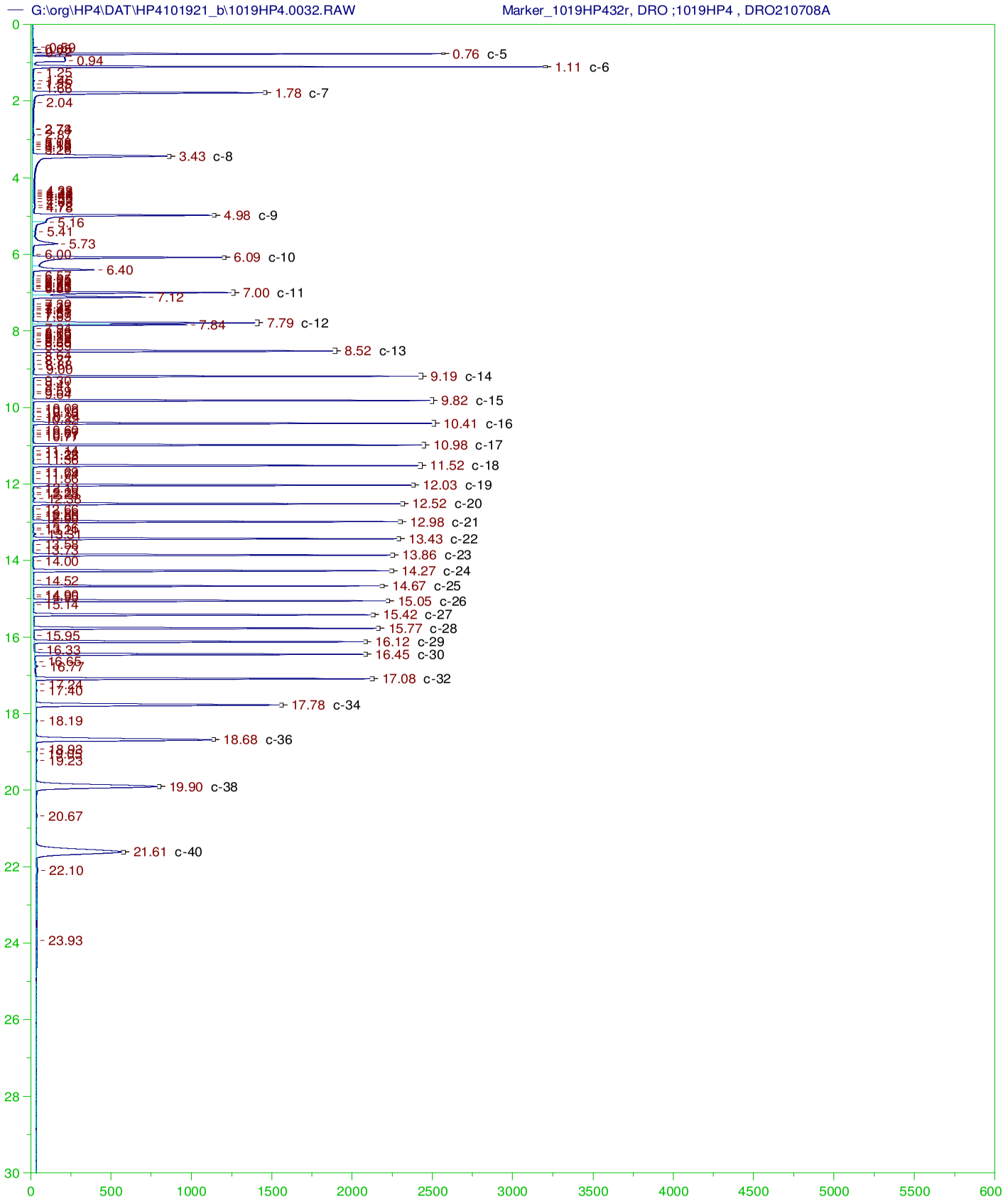


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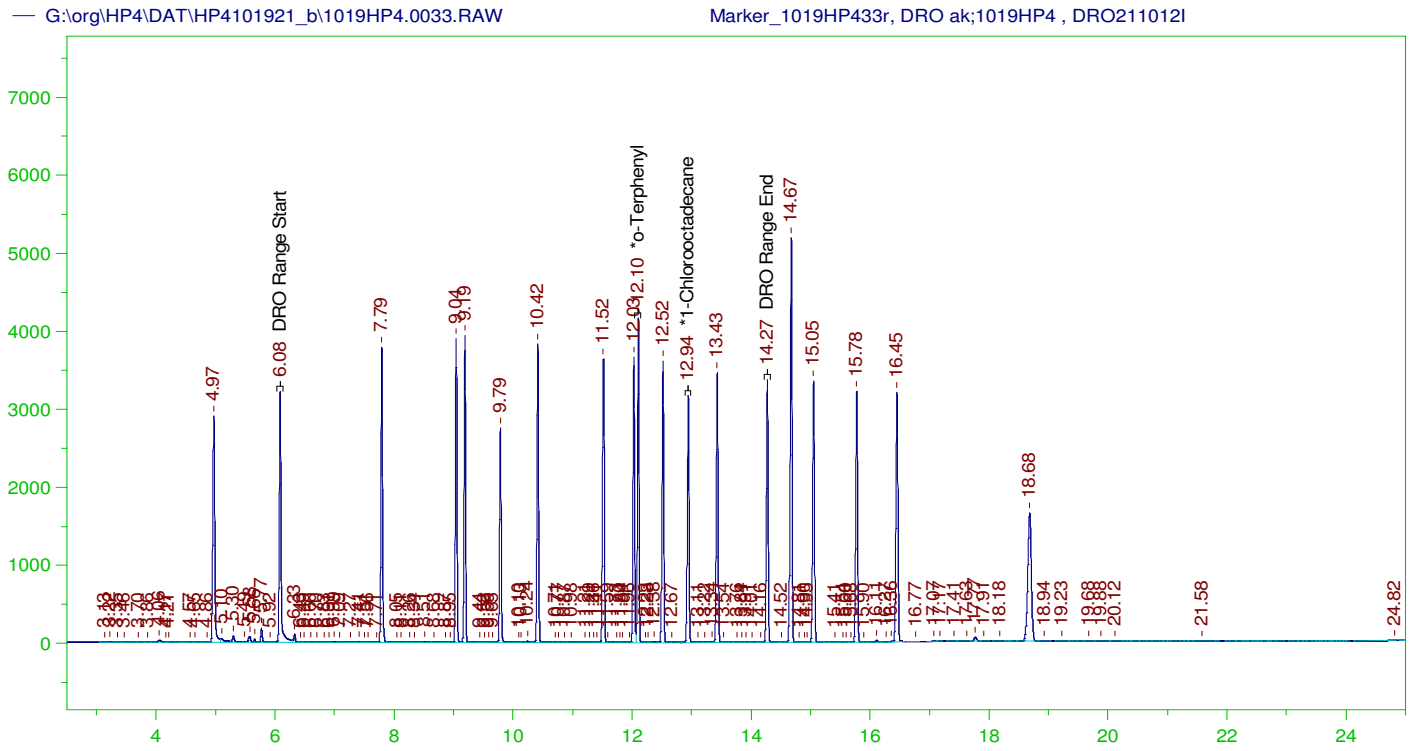



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

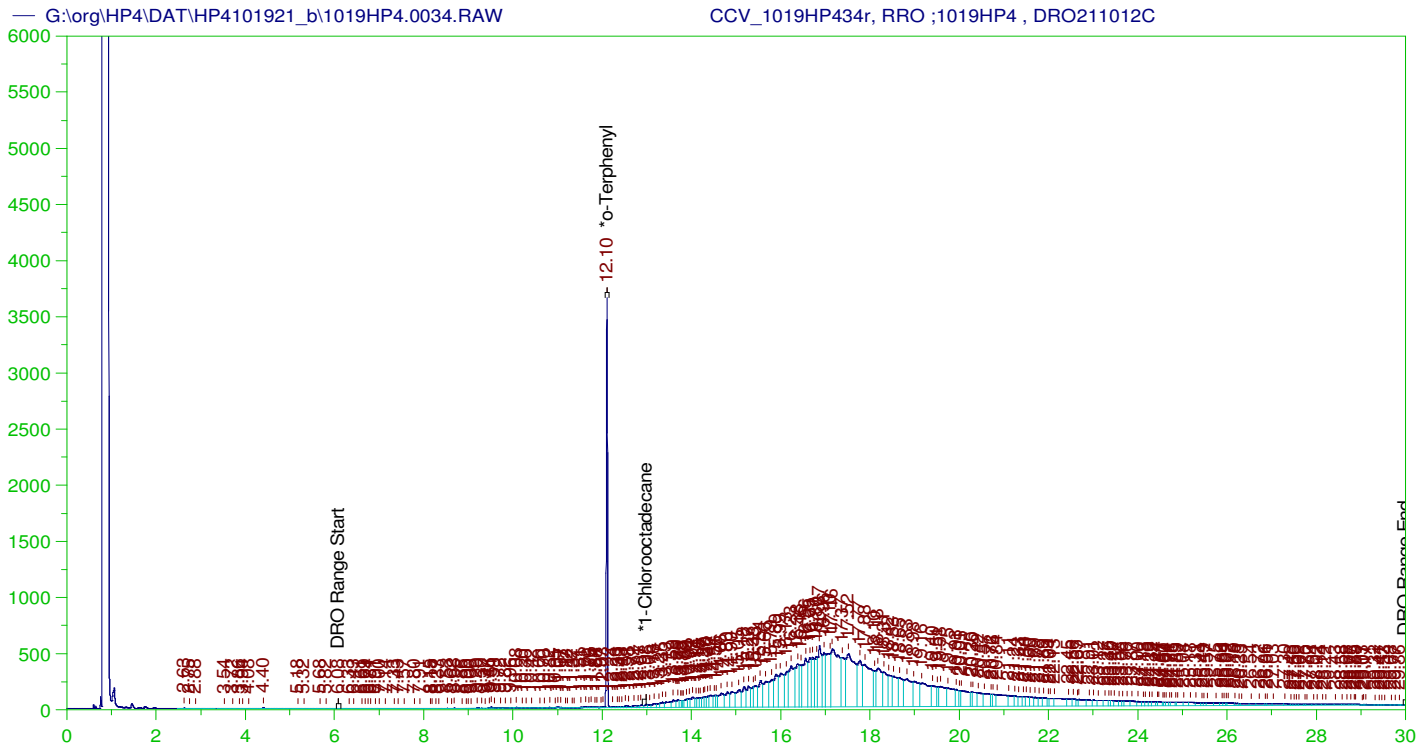
Sample Name: Marker_1019HP433r, DRO ak;1019HP4 , DRO211012I
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0033.RAW
Date & Time Acquired: 10/20/2021 11:55:00 AM
Method File: G:\Org\HP4\methods\DC_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.105 | .2 | .243 | 121.43 | - |
| *1-Chlorooctadecane | 12.943 | .2 | .2 | 100.01 | - |

DRO Area:7.554844E+07 DRO Amount: 2.902411
TEH Area:1.238043E+08 TEH Amount: 4.756299

G:\org\HP4\dat\HP4101921_b\Review\033_Marker_1019HP433r_DC_8015-24-NA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP434r, RRO ;1019HP4 , DRO211012C
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0034.RAW
Date & Time Acquired: 10/20/2021 12:39:57 PM
Method File: G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.104 | 200. | 216.598 | 108.3 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.148 | 2.07 | - |

DRO Area:1.230022E+08 DRO Amount: 5014.448
TEH (Oil Range) Area:1.23043E+08 TEH (Oil Range) Amount: 5016.11

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0034.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5016.11 | 100.32 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.104 | 200. | 216.598 | 108.3 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.148 | 2.07 | 85-115 |

AMN 10/25/2021

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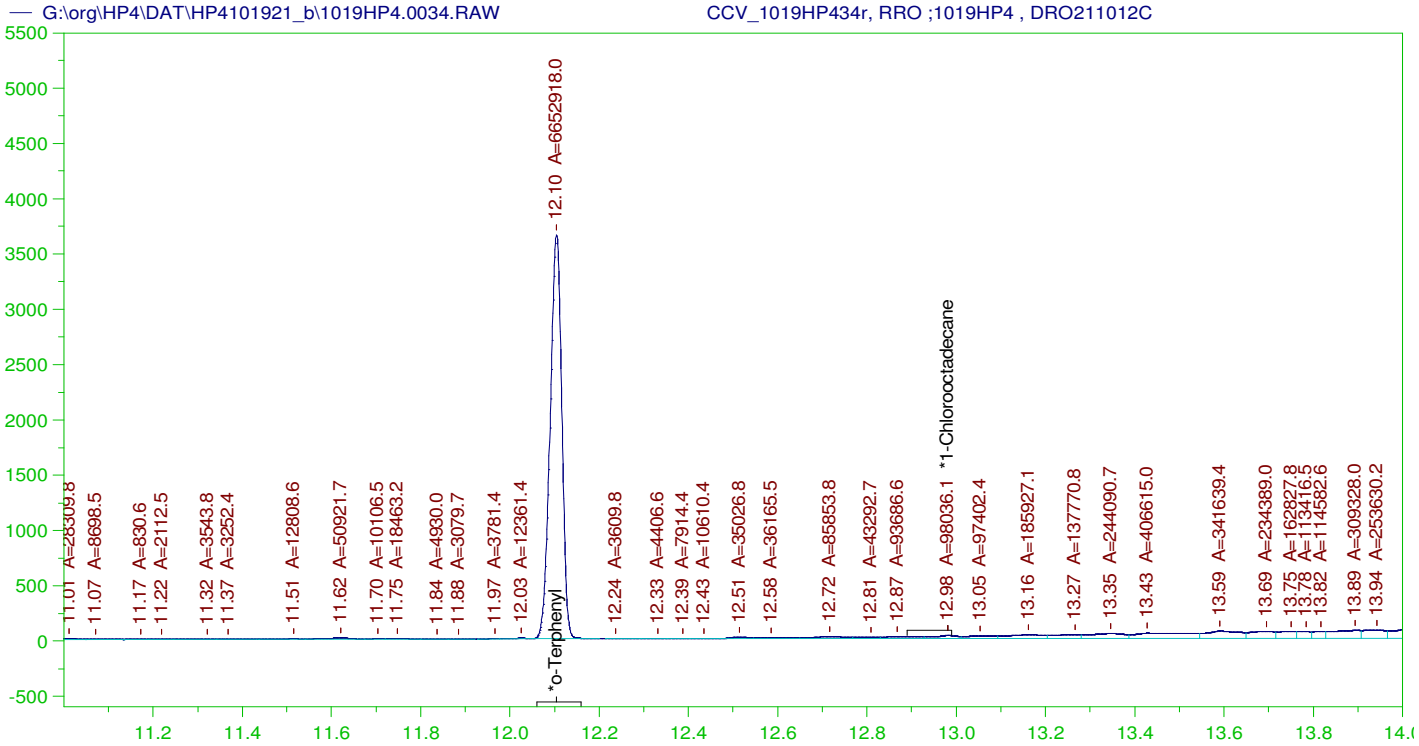


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP434r, RRO ;1019HP4 , DRO211012C
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0034.RAW
Date & Time Acquired: 10/20/2021 12:39:57 PM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.104 | 200. | 214.828 | 107.41 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 3.166 | 1.58 | - |

DRO Area:1.195632E+08 DRO Amount: 4874.25
TEH Area:1.19604E+08 TEH Amount: 4875.912

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0034.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4875.91 | 97.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.104 | 200. | 214.828 | 107.41 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 3.166 | 1.58 | 85-115 |

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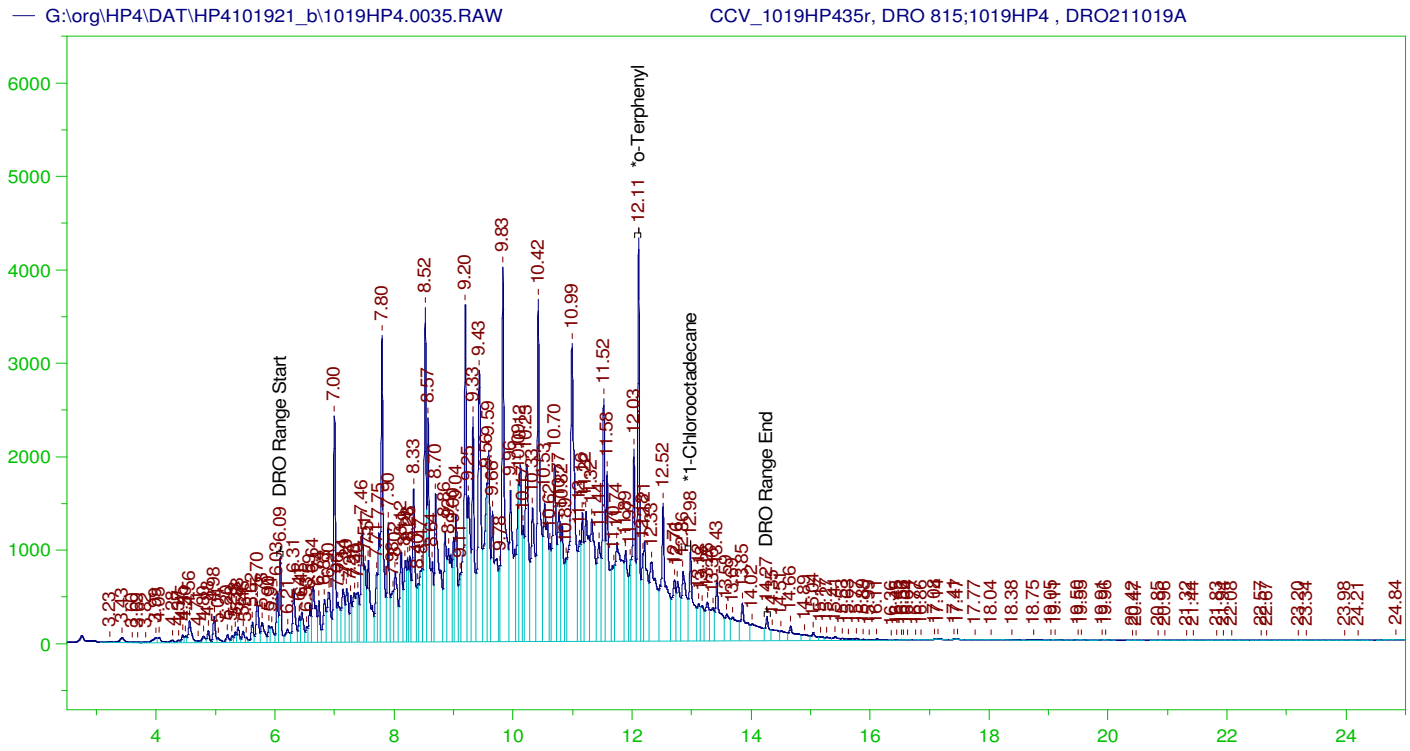



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP435r, DRO 815;1019HP4 , DRO211019A
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0035.RAW
Date & Time Acquired: 10/20/2021 1:24:54 PM
Method File: G:\Org\HP4\methods\DC_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.11 | 200. | 329.032 | 164.52 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 152.338 | 76.17 | - |

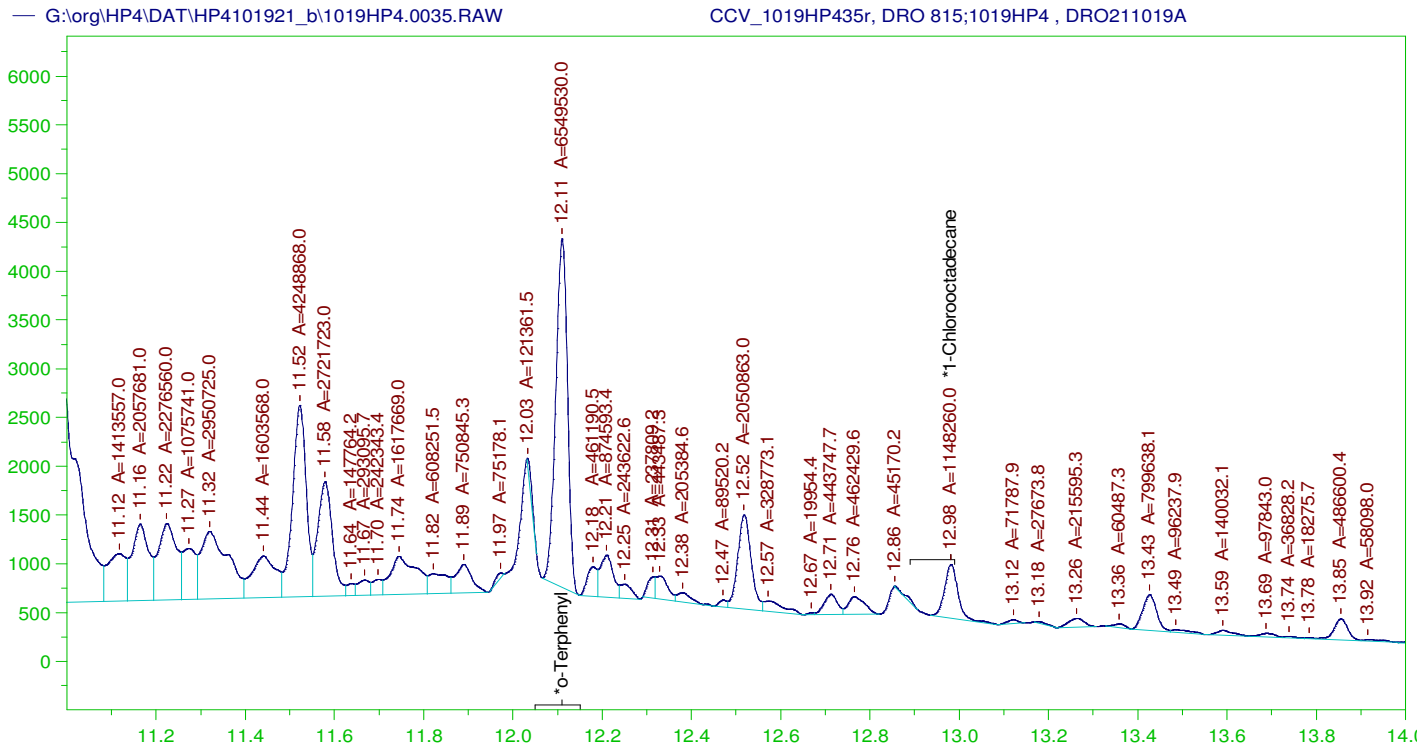
DRO Area:3.99286E+08 DRO Amount: 15339.72
TEH Area:4.133325E+08 TEH Amount: 15879.36

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0035.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15879.36 | 105.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.11 | 200. | 329.032 | 164.52 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 152.338 | 76.17 | 85-115 |

G:\org\HP4\dat\HP4101921_b\Review\035_CCV_1019HP435r_DC_8015-24-NA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP435r, DRO 815;1019HP4 , DRO211019A
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0035.RAW
Date & Time Acquired: 10/20/2021 1:24:54 PM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.11 | 200. | 211.489 | 105.74 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 37.078 | 18.54 | - |

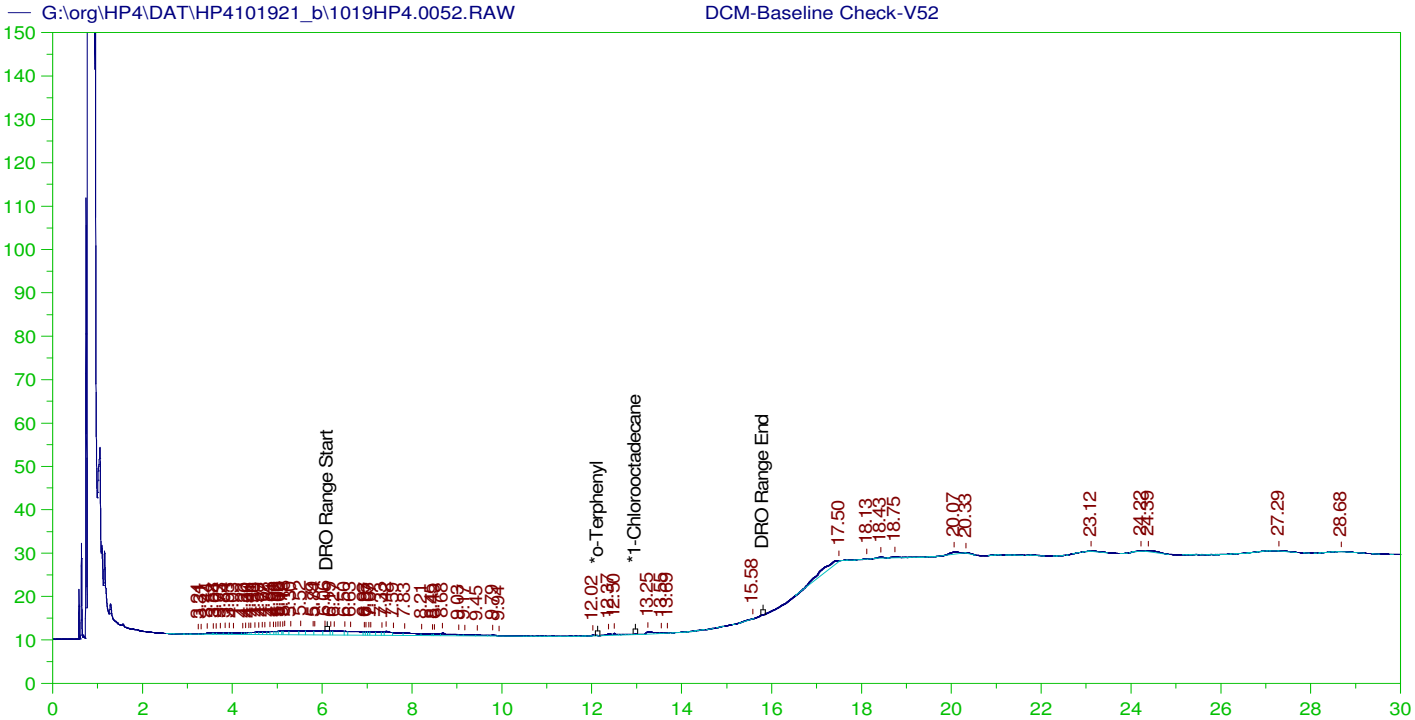
DRO Area:2.208519E+08 DRO Amount: 8484.663
TEH Area:2.293706E+08 TEH Amount: 8811.934

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0035.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8811.93 | 58.75 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.11 | 200. | 211.489 | 105.74 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 37.078 | 18.54 | 85-115 |

G:\org\HP4\dat\HP4101921_b\Review\035_CCV_1019HP435r_DS_8015-24-NA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

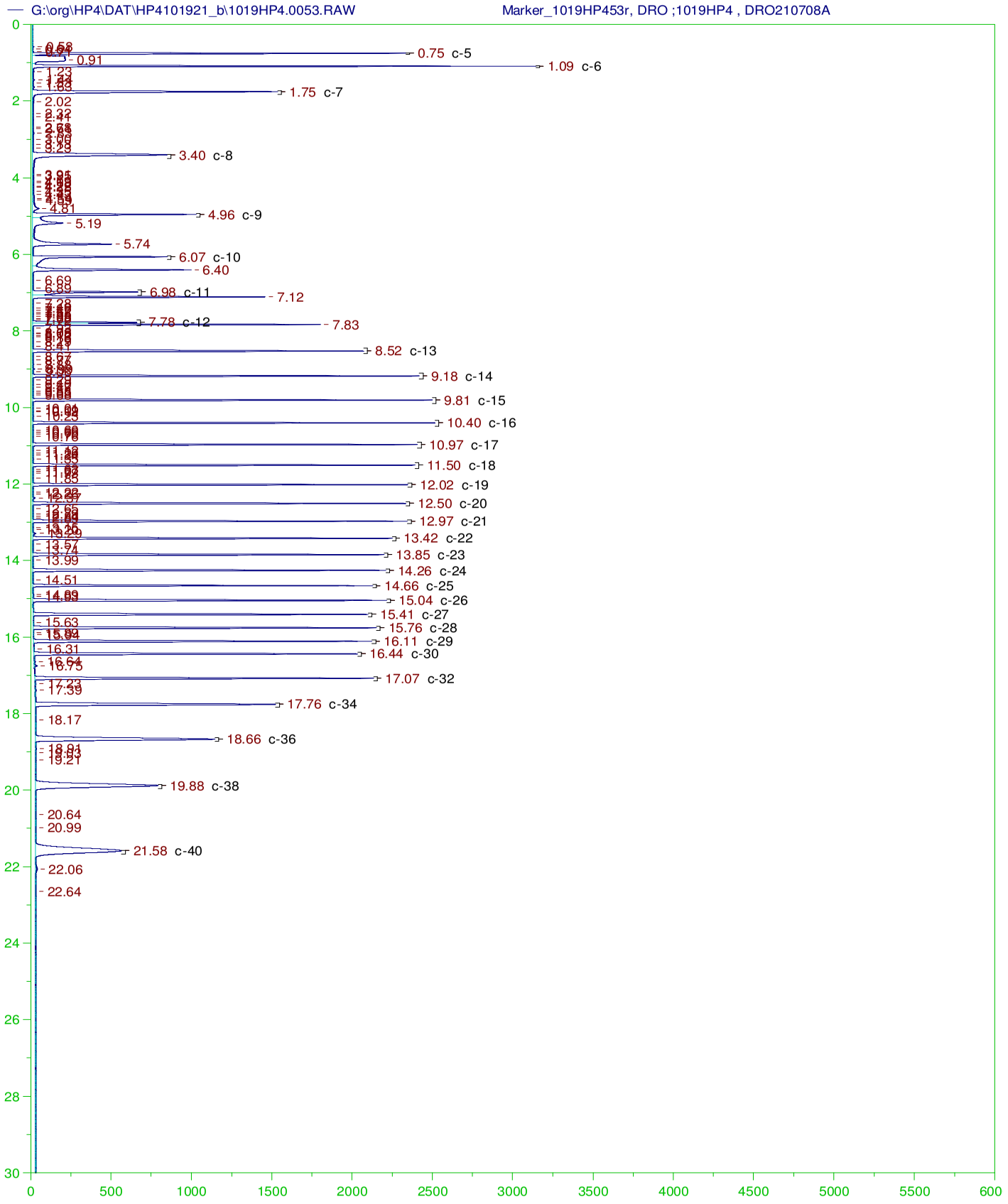
Sample Name: DCM-Baseline Check-V52
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0052.RAW
Date & Time Acquired: 10/21/2021 2:16:53 AM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.798 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.798 | 200. | . | . | - |

DRO Area:130930.8 DRO Amount: 5.030082
TEH Area:304975.9 TEH Amount: 11.71653

G:\org\HP4\dat\HP4101921_b\Review\052_DCM-Baseline Chec_DR_8015-MZ-LEXP.xls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Marker_1019HP453r, DRO ;1019HP4 , DRO210708A
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0.91
1.09 c-6
1.75 c-7
3.40 c-8
4.96 c-9
5.19
5.74
6.07 c-10
6.40
6.98 c-11
7.12
7.78 c-12
7.83
8.52 c-13
9.18 c-14
9.81 c-15
10.40 c-16
10.97 c-17
11.50 c-18
12.02 c-19
12.50 c-20
12.97 c-21
13.42 c-22
13.85 c-23
14.26 c-24
14.66 c-25
15.04 c-26
15.41 c-27
15.76 c-28
16.11 c-29
16.44 c-30
17.07 c-32
17.76 c-34
18.66 c-36
19.88 c-38
21.58 c-40
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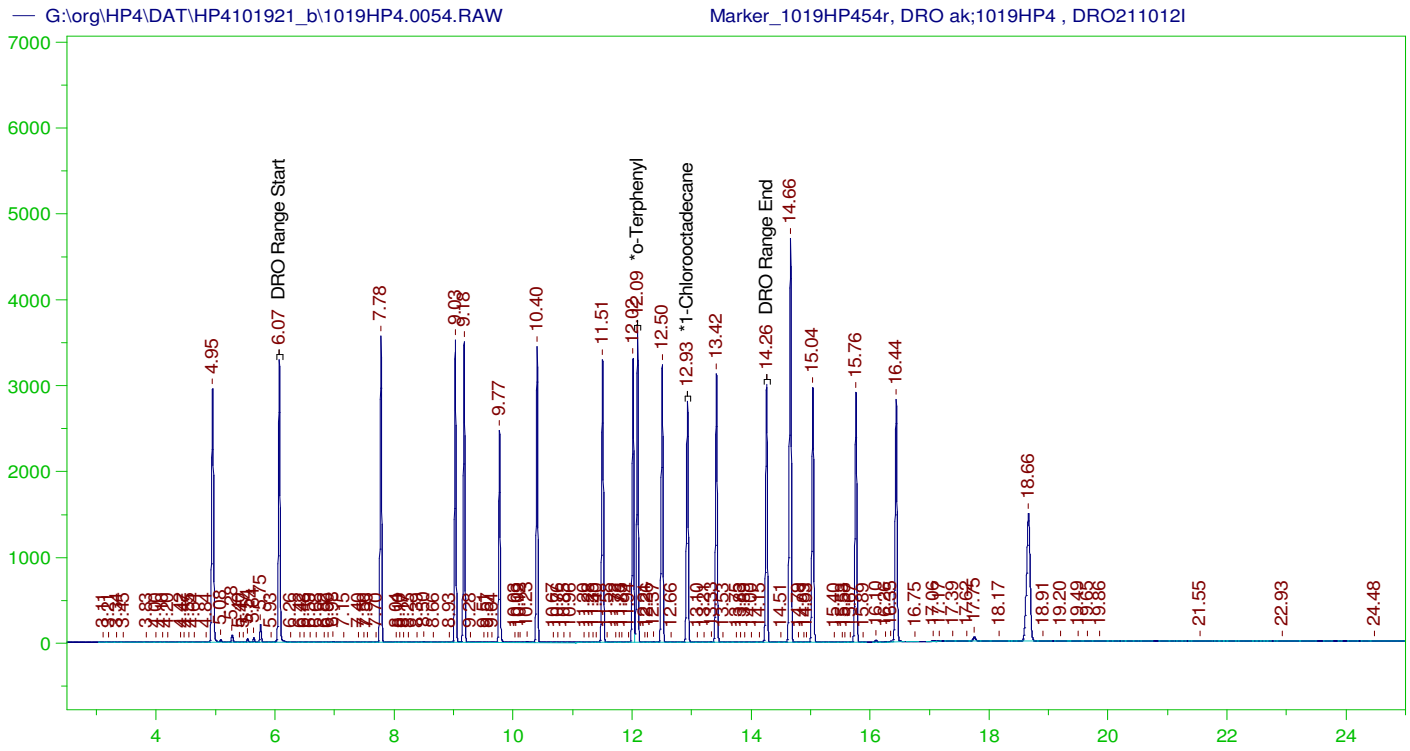



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

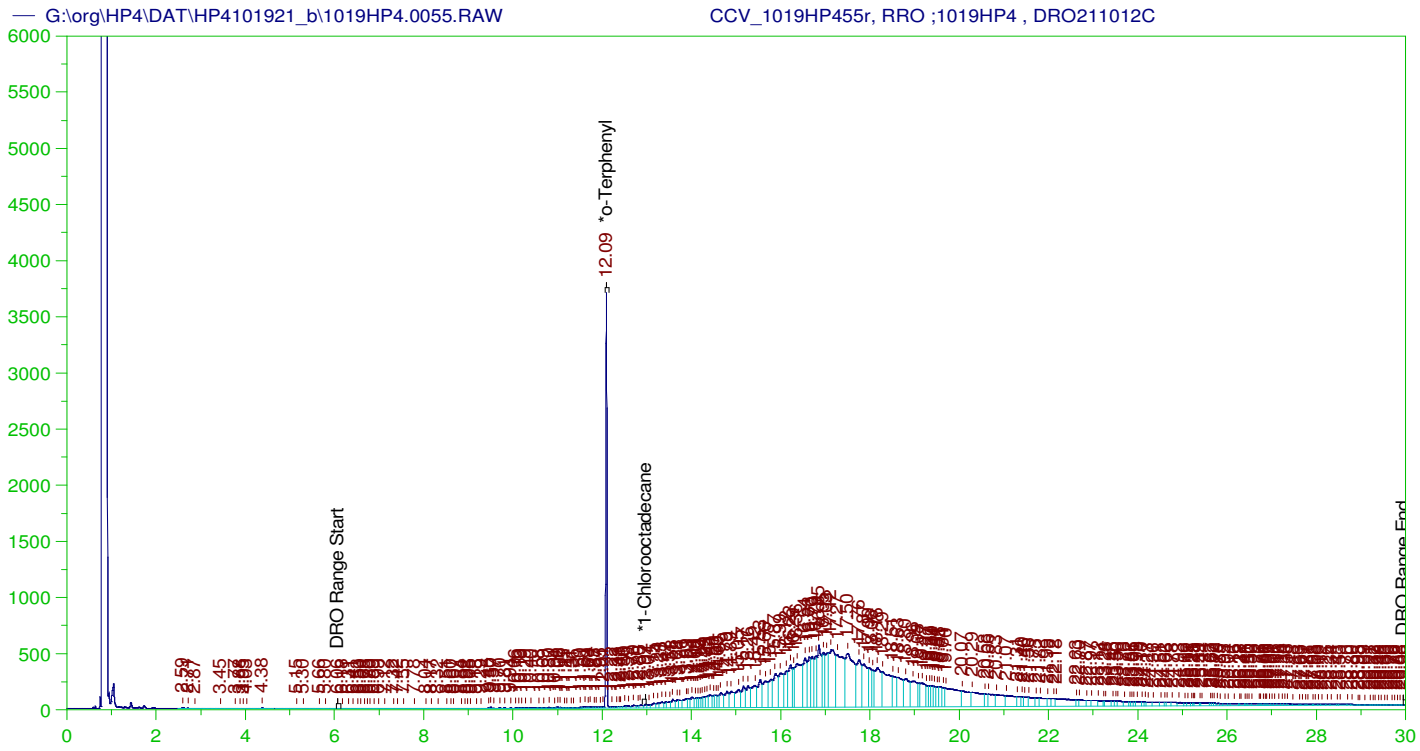
Sample Name: Marker_1019HP454r, DRO ak;1019HP4 , DRO211012I
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0054.RAW
Date & Time Acquired: 10/21/2021 3:46:58 AM
Method File: G:\Org\HP4\methods\DC_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.091 | .2 | .216 | 108. | - |
| *1-Chlorooctadecane | 12.929 | .2 | .178 | 89.09 | - |

DRO Area:6.699007E+07 DRO Amount: 2.573617
TEH Area:1.09997E+08 TEH Amount: 4.225852

G:\org\HP4\dat\HP4101921_b\Review\054_Marker_1019HP454r_DC_8015-24-NA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP455r, RRO ;1019HP4 , DRO211012C
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0055.RAW
Date & Time Acquired: 10/21/2021 4:31:55 AM
Method File: G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.091 | 200. | 220.002 | 110. | - |
| *1-Chlorooctadecane | 12.969 | 200. | 4.26 | 2.13 | - |

DRO Area:1.240121E+08 DRO Amount: 5055.617
TEH (Oil Range) Area:1.240546E+08 TEH (Oil Range)Amount: 5057.353

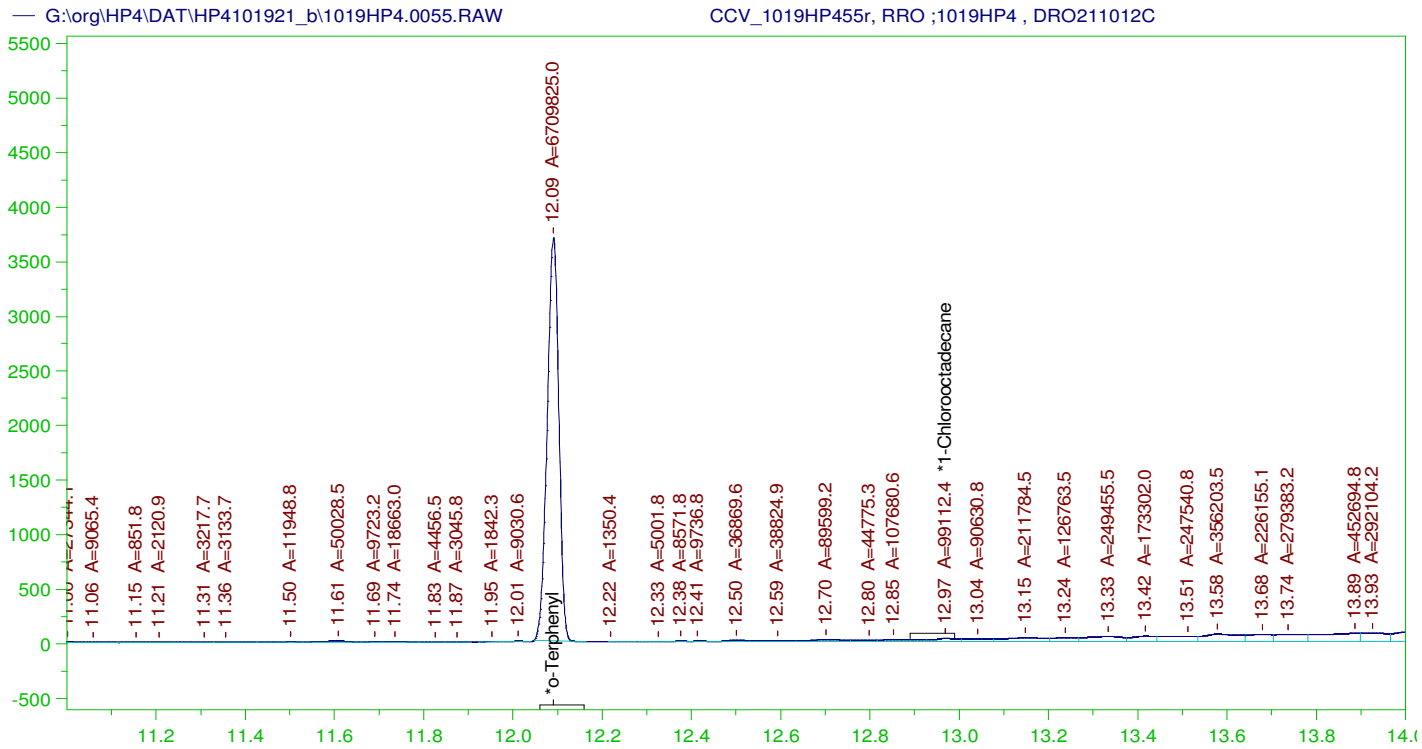
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5057.35 | 101.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.091 | 200. | 220.002 | 110. | 85-115 |
| *1-Chlorooctadecane | 12.969 | 200. | 4.26 | 2.13 | 85-115 |

AMN 10/25/2021

G:\org\HP4\dat\HP4101921_b\Review\055_CCV_1019HP455r_DC_8015-OIL-AC-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP455r, RRO ;1019HP4 , DRO211012C
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0055.RAW
Date & Time Acquired: 10/21/2021 4:31:55 AM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.091 | 200. | 216.665 | 108.33 | - |
| *1-Chlorooctadecane | 12.969 | 200. | 3.2 | 1.6 | - |

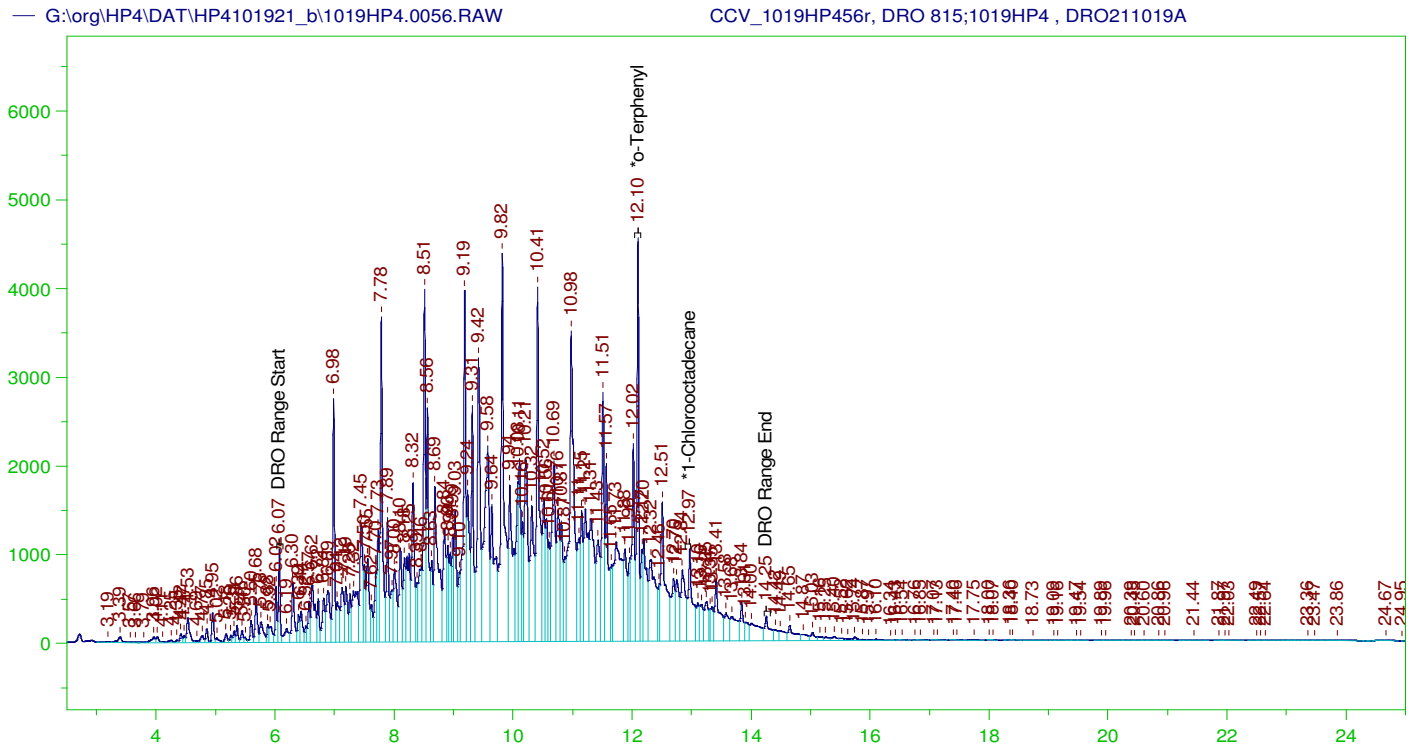
DRO Area:1.199953E+08 DRO Amount: 4891.866
TEH Area:1.200379E+08 TEH Amount: 4893.601

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0055.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4893.6 | 97.87 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.091 | 200. | 216.665 | 108.33 | 85-115 |
| *1-Chlorooctadecane | 12.969 | 200. | 3.2 | 1.6 | 85-115 |

G:\org\HP4\dat\HP4101921_b\Review\055_CCV_1019HP455r_DS_8015-OIL-AC-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP456r, DRO 815;1019HP4 , DRO211019A
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0056.RAW
Date & Time Acquired: 10/21/2021 5:16:51 AM
Method File: G:\Org\HP4\methods\DC_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.098 | 200. | 353.071 | 176.54 | - |
| *1-Chlorooctadecane | 12.968 | 200. | 159.929 | 79.96 | - |

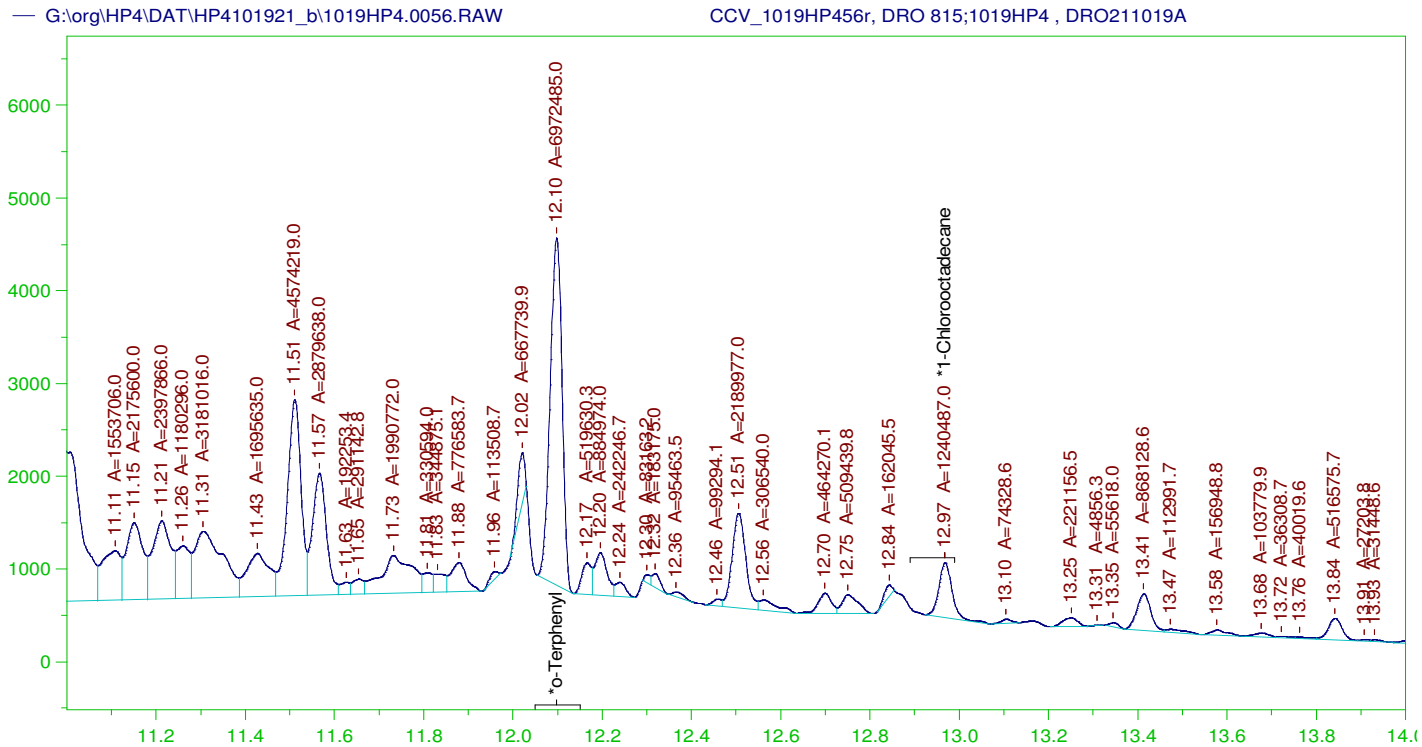
DRO Area:4.278256E+08 DRO Amount: 16436.15
TEH Area:4.439708E+08 TEH Amount: 17056.42

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0056.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 17056.42 | 113.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.098 | 200. | 353.071 | 176.54 | 85-115 |
| *1-Chlorooctadecane | 12.968 | 200. | 159.929 | 79.96 | 85-115 |

G:\org\HP4\dat\HP4101921_b\Review\056_CCV_1019HP456r_DC_8015-24-NA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP456r, DRO 815;1019HP4 , DRO211019A
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0056.RAW
Date & Time Acquired: 10/21/2021 5:16:51 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.098 | 200. | 225.147 | 112.57 | - |
| *1-Chlorooctadecane | 12.968 | 200. | 40.056 | 20.03 | - |

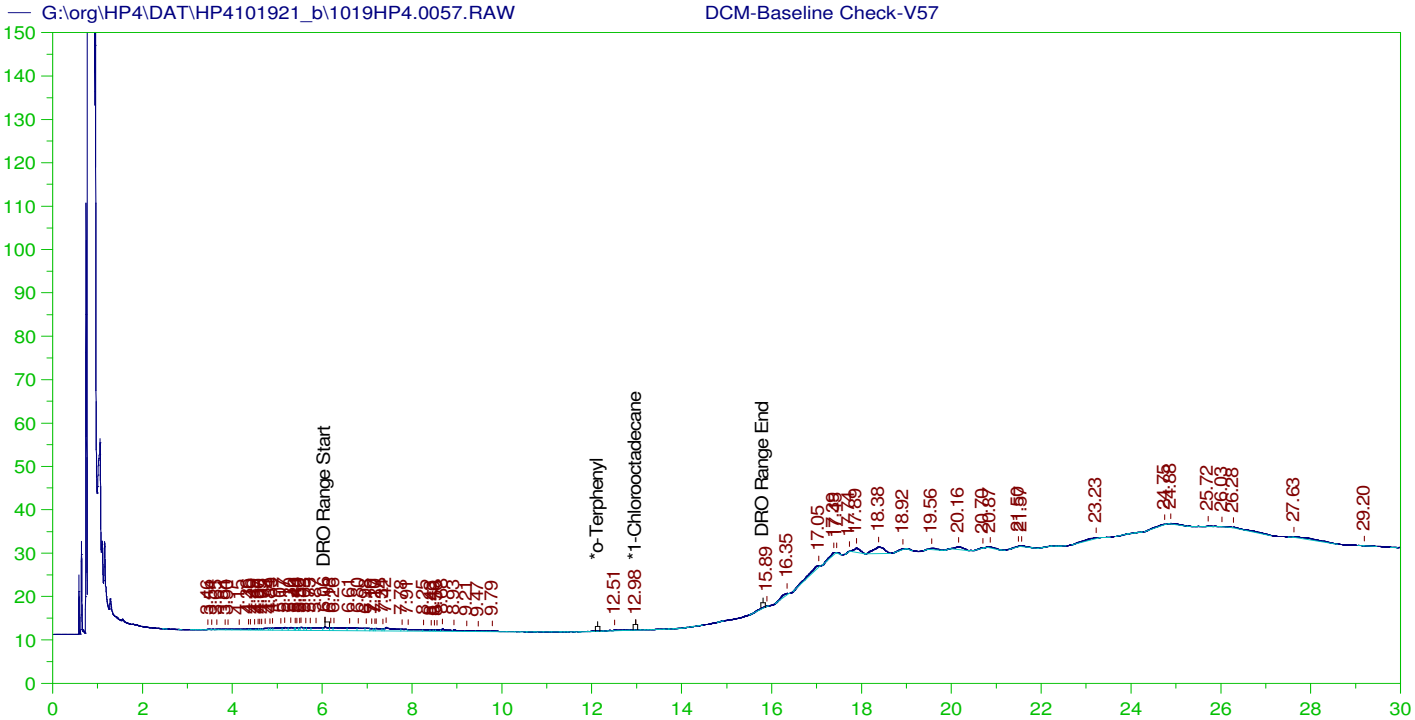
DRO Area:2.36396E+08 DRO Amount: 9081.832
TEH Area:2.467821E+08 TEH Amount: 9480.844

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0056.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 9480.84 | 63.21 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.098 | 200. | 225.147 | 112.57 | 85-115 |
| *1-Chlorooctadecane | 12.968 | 200. | 40.056 | 20.03 | 85-115 |

G:\org\HP4\dat\HP4101921_b\Review\056_CCV_1019HP456r_DS_8015-24-NA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

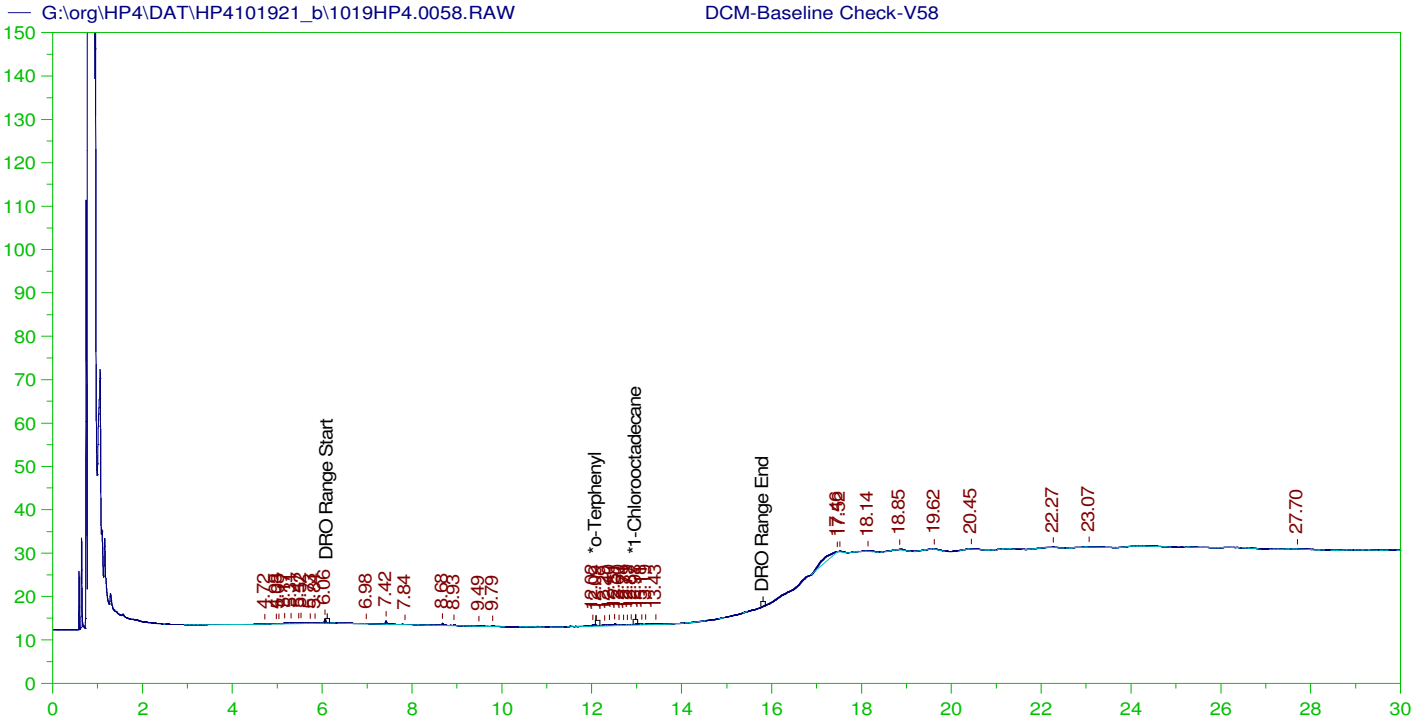
Sample Name: DCM-Baseline Check-V57
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0057.RAW
Date & Time Acquired: 10/21/2021 6:01:52 AM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 29.828 | 200. | . | . - |
| *1-Chlorooctadecane | 12.977 | 200. | .022 | .01 - |

DRO Area:98179.45 DRO Amount: 3.771847
TEH Area:282464.3 TEH Amount: 10.85168

G:\org\HP4\dat\HP4101921_b\Review\057_DCM-Baseline Chec_DR_8015-MZ-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V58
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0058.RAW
Date & Time Acquired: 10/21/2021 7:18:45 AM
Method File: G:\Org\HP4\methods\DR_8015-MZ-LEXP.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204Mz.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.06 to 15.86

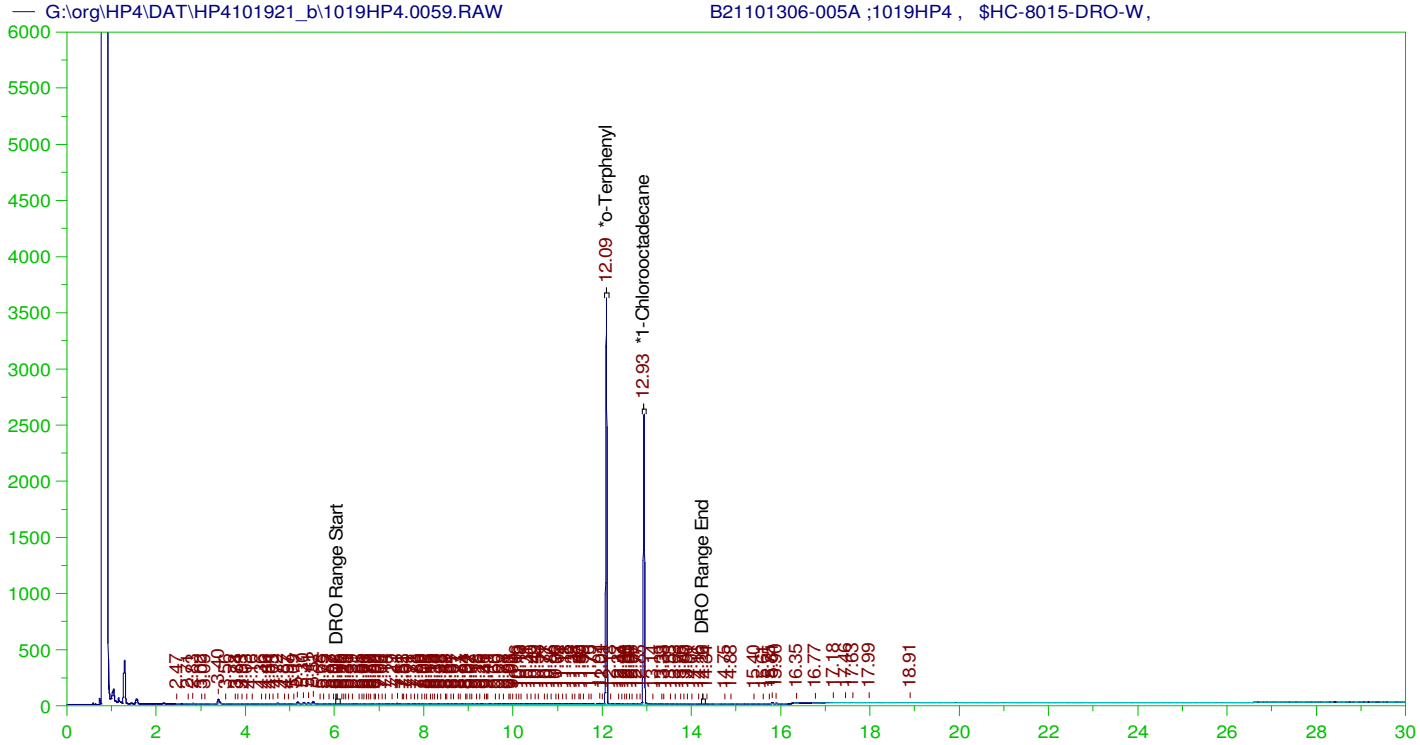
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.094 | 200. | .019 | .01 | - |
| *1-Chlorooctadecane | 12.979 | 200. | .049 | .02 | - |

DRO Area:28324.25 DRO Amount: 1.088158
TEH Area:84020.52 TEH Amount: 3.22789

G:\org\HP4\dat\HP4101921_b\Review\058_DCM-Baseline Chec_DR_8015-MZ-LEXP.xls

**ERH1816 (RHMW2254-01)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0059.RAW B21101306-005A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-005A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0059.RAW
Date & Time Acquired: 10/21/2021 8:03:31 AM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.09 | .192 | .202 | 105.04 | - |
| *1-Chlorooctadecane | 12.931 | .192 | .157 | 81.87 | - |

DRO Area:420803.2 DRO Amount: 1.554458E-02
TEH Area:1008427 TEH Amount: 3.725155E-02

G:\org\HP4\dat\HP4101921_b\Review\059_B21101306-005A_DR_8015-24-NA-L%.xls

Batch ID: 160450

**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-005A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0059.RAW
Date & Time Acquired: 10/21/2021 8:03:31 AM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

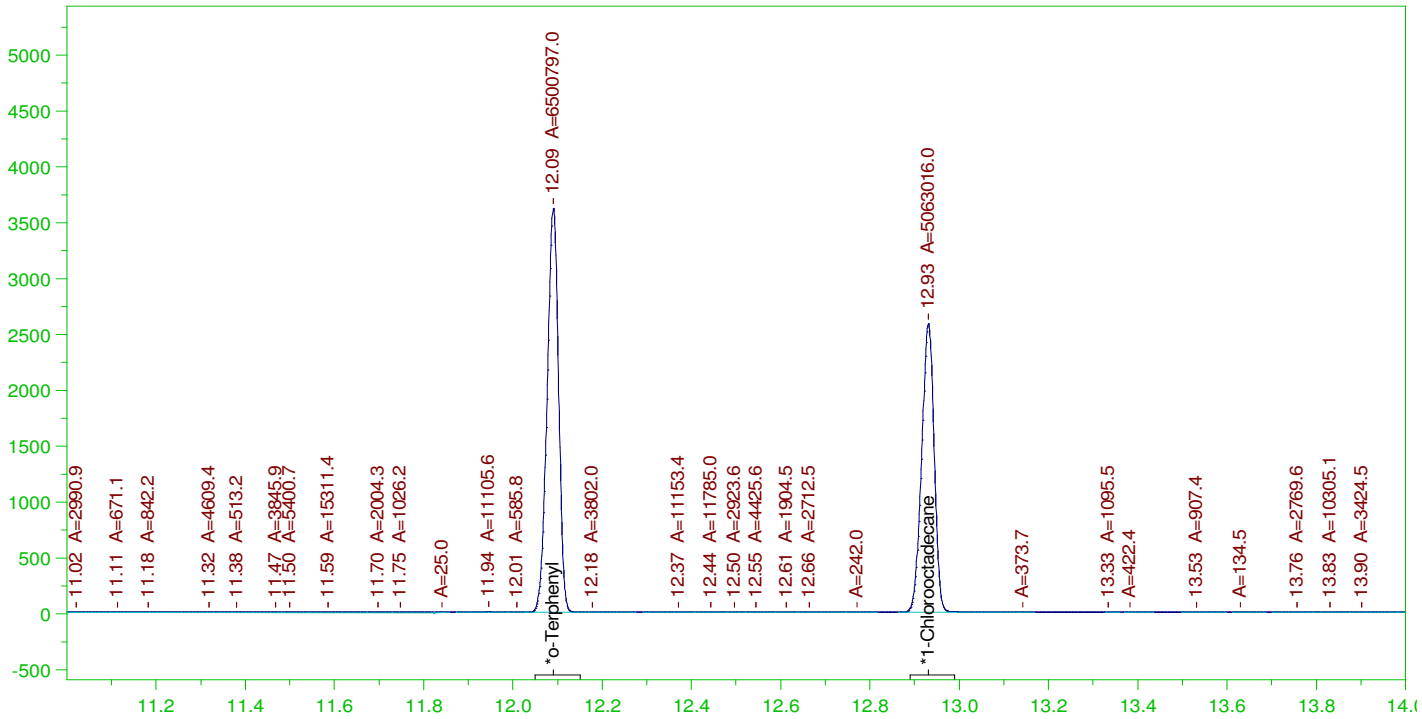
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:69190.7 RRO AMOUNT: 2.712218E-03

G:\org\HP4\dat\HP4101921_b\Review\059_B21101306-005A_DR_8015-OILS-AC-L%.xls

**ERH1816 (RHMW2254-01)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0059.RAW B21101306-005A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-005A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0059.RAW
Date & Time Acquired: 10/21/2021 8:03:31 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

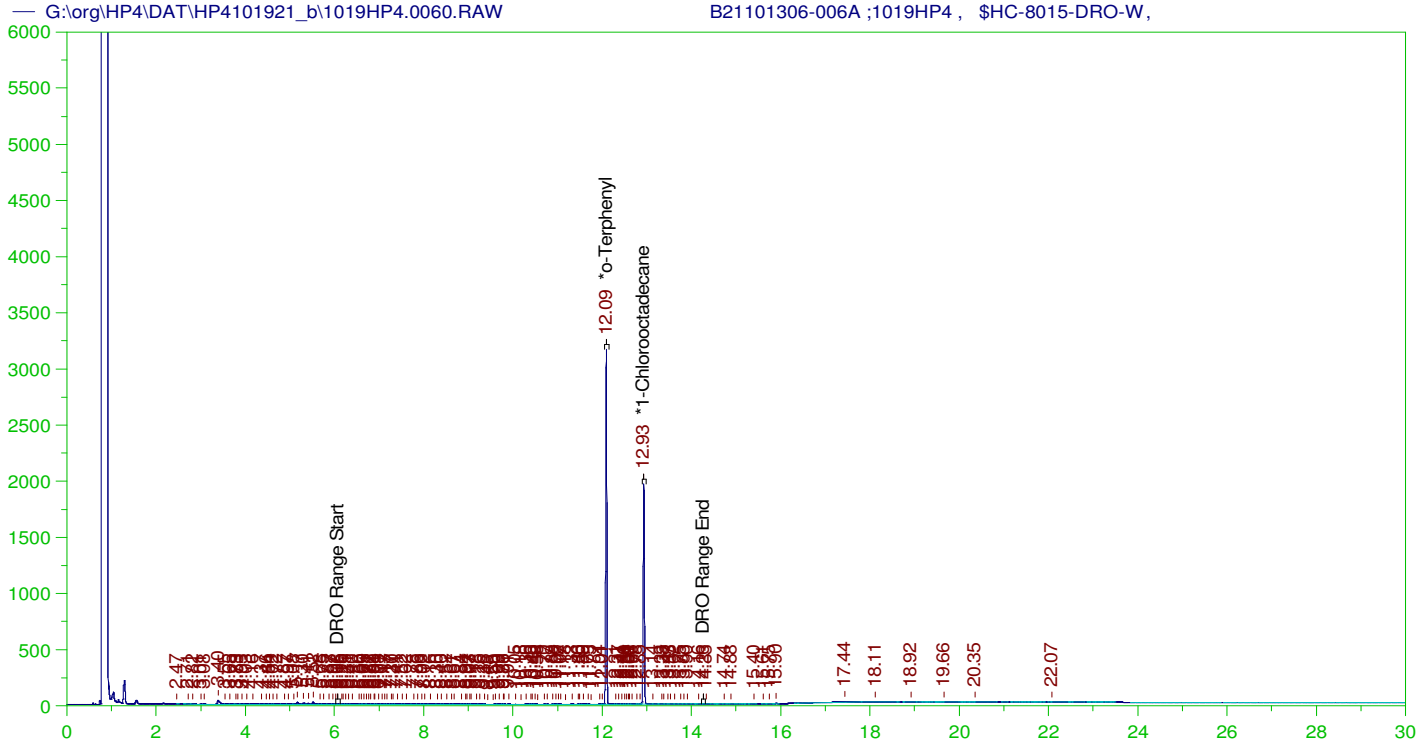
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.09 | .192 | .202 | 104.96 | - |
| *1-Chlorooctadecane | 12.931 | .192 | .157 | 81.74 | - |

DRO Area:259351.1 DRO Amount: 9.580499E-03
TEH Area:794720.3 TEH Amount: 2.935718E-02

G:\org\HP4\dat\HP4101921_b\Review\059_B21101306-005A_DS_8015-24-NA-L#.xls

**ERH1819 (RHSF)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0060.RAW B21101306-006A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-006A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0060.RAW
Date & Time Acquired: 10/21/2021 8:48:20 AM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.088 | .189 | .174 | 92.27 | - |
| *1-Chlorooctadecane | 12.927 | .189 | .117 | 62.16 | - |

DRO Area:336783.1 DRO Amount: 1.220612E-02
TEH Area:1024167 TEH Amount: 3.711918E-02

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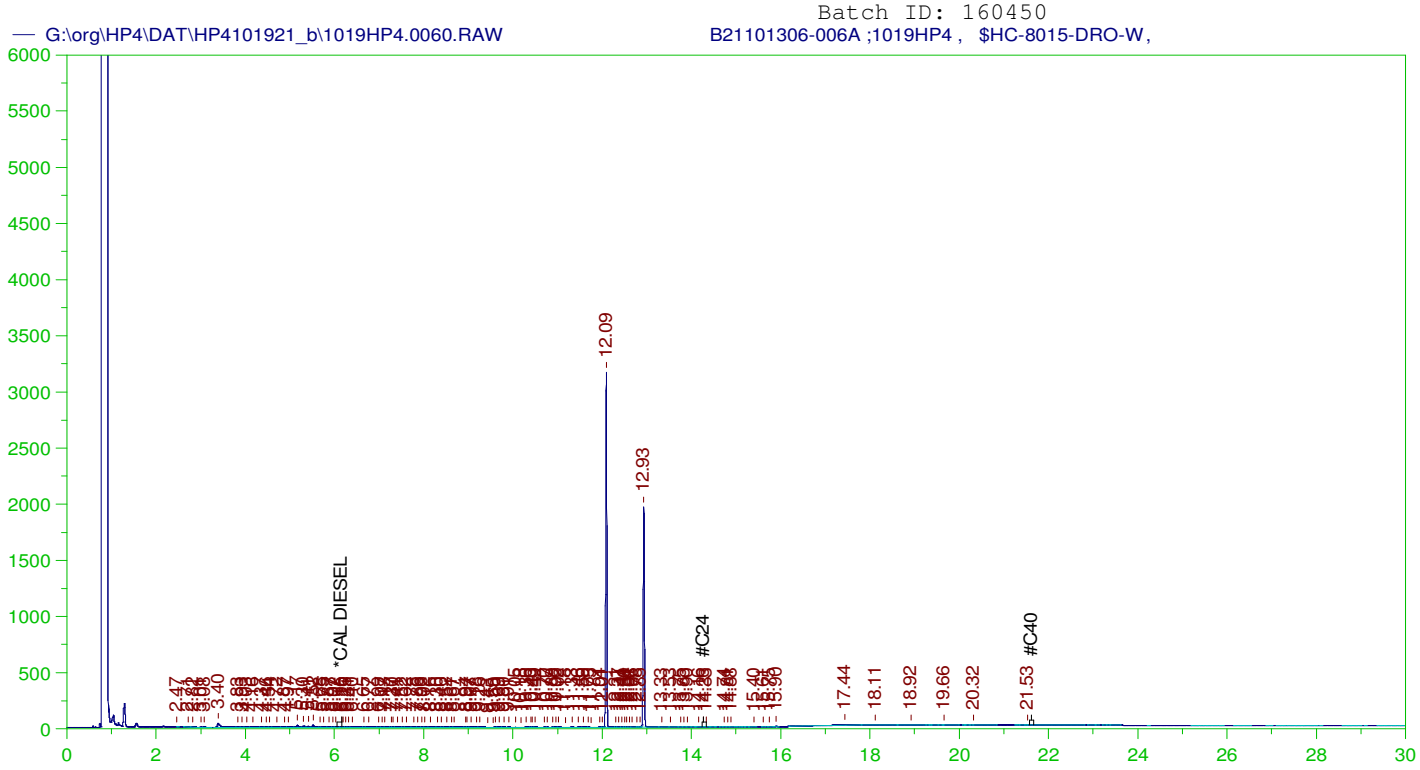
Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-006A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0060.RAW
Date & Time Acquired: 10/21/2021 8:48:20 AM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

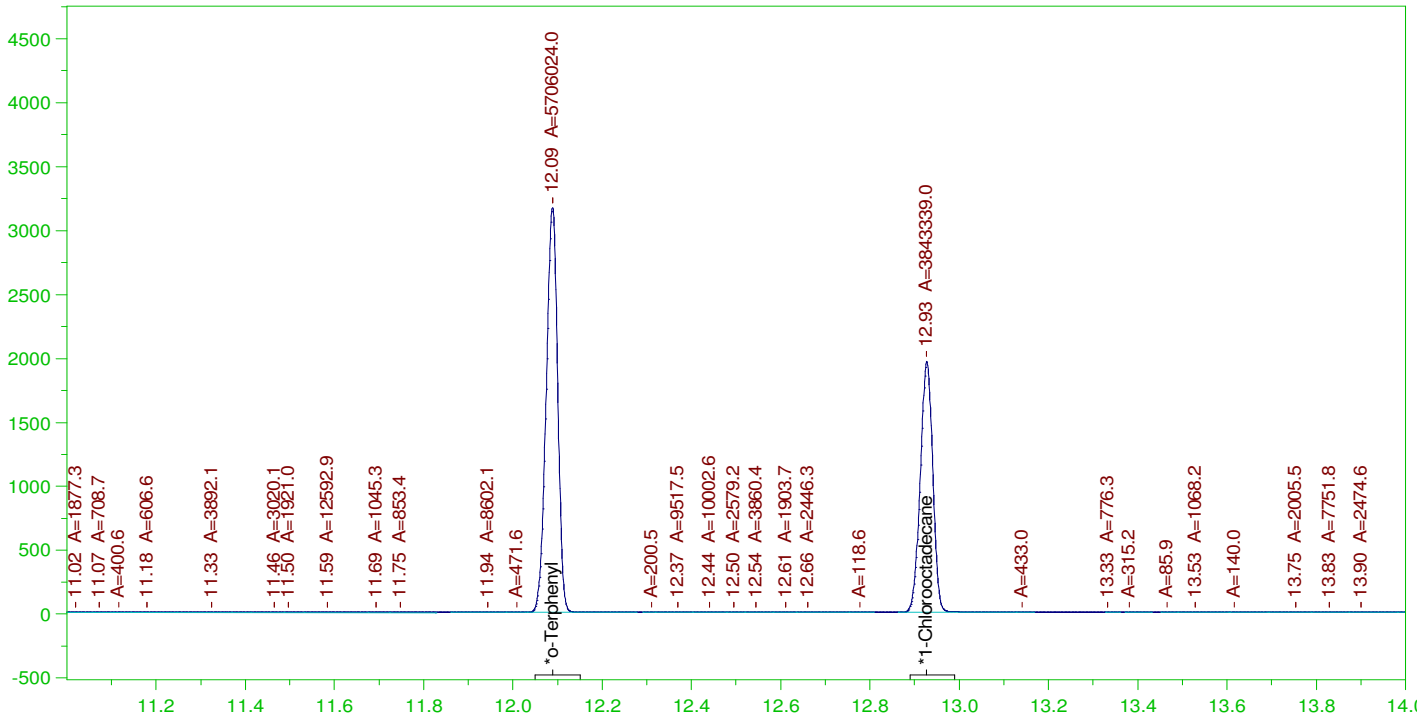
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:298234 RRO AMOUNT: 1.146995E-02

G:\org\HP4\dat\HP4101921_b\Review\060_B21101306-006A_DR_8015-OILS-AC-L%.xls

**ERH1819 (RHSF)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0060.RAW B21101306-006A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-006A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0060.RAW
Date & Time Acquired: 10/21/2021 8:48:20 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

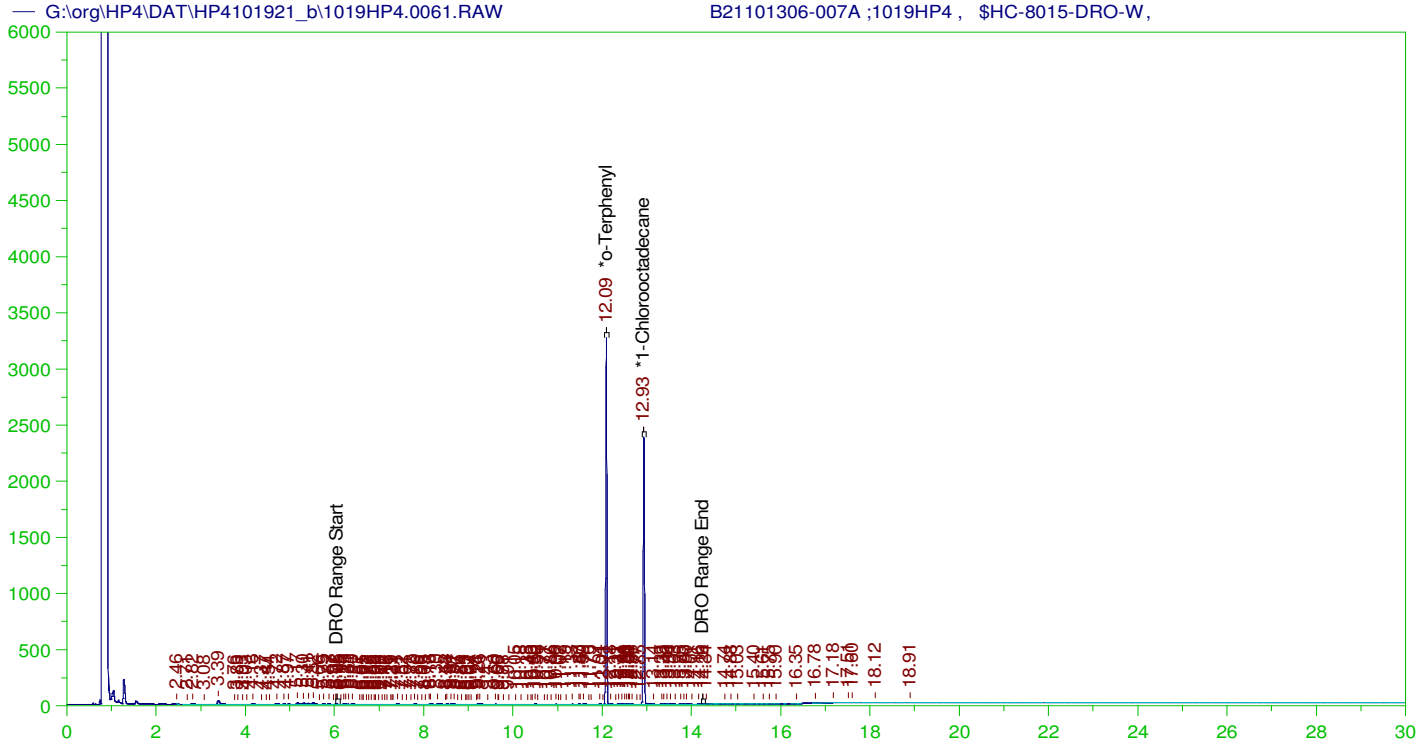
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.088 | .189 | .174 | 92.13 | - |
| *1-Chlorooctadecane | 12.927 | .189 | .117 | 62.05 | - |

DRO Area:266362.5 DRO Amount: 9.65385E-03
TEH Area:904279.8 TEH Amount: 3.277407E-02

G:\org\HP4\dat\HP4101921_b\Review\060_B21101306-006A_DS_8015-24-NA-L#.xls

**ERH1821 (RHSF)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0061.RAW B21101306-007A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-007A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0061.RAW
Date & Time Acquired: 10/21/2021 9:33:10 AM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

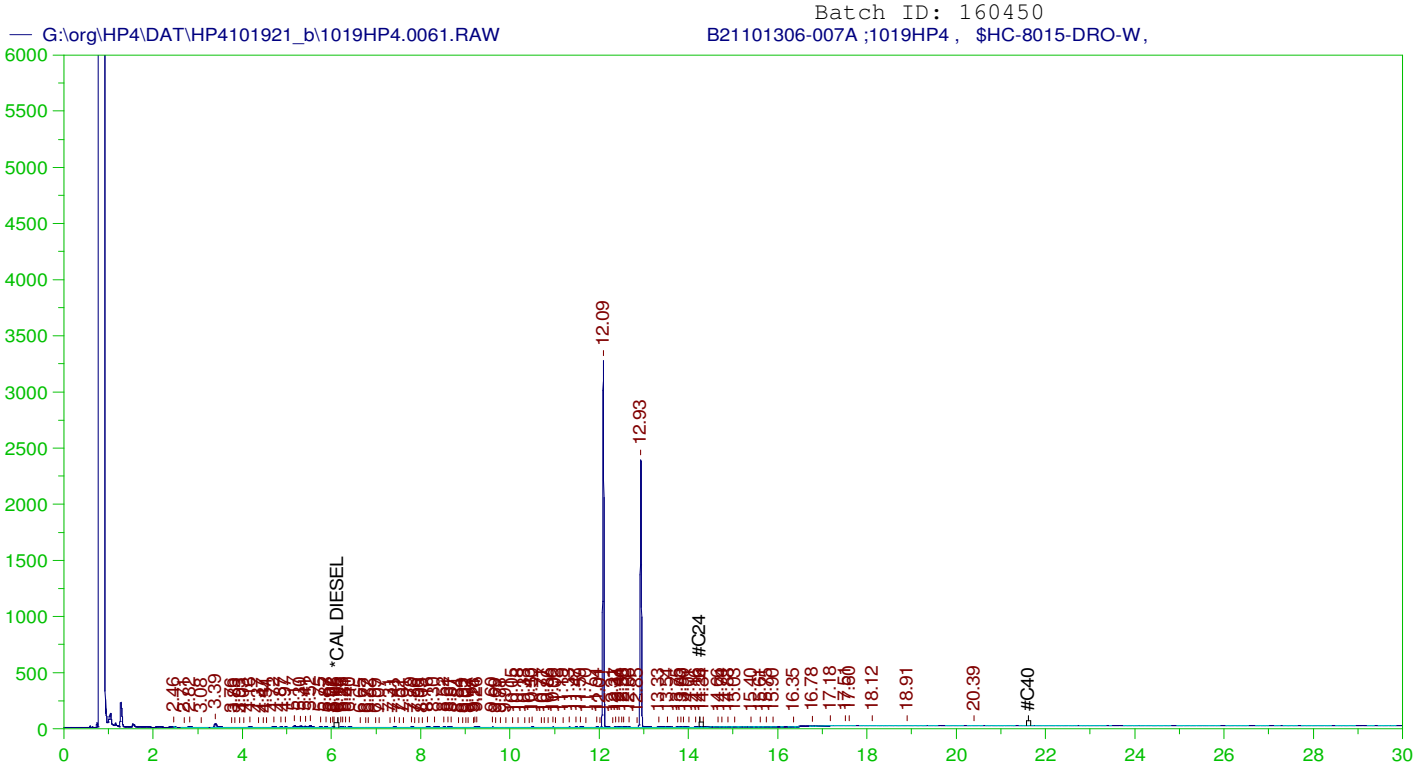
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.089 | .196 | .187 | 95.53 | - |
| *1-Chlorooctadecane | 12.929 | .196 | .149 | 75.84 | - |

DRO Area:375696.2 DRO Amount: 1.415044E-02
TEH Area:823018.4 TEH Amount: 3.099865E-02

G:\org\HP4\dat\HP4101921_b\Review\061_B21101306-007A_DR_8015-24-NA-L%.xls

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-007A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0061.RAW
Date & Time Acquired: 10/21/2021 9:33:10 AM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

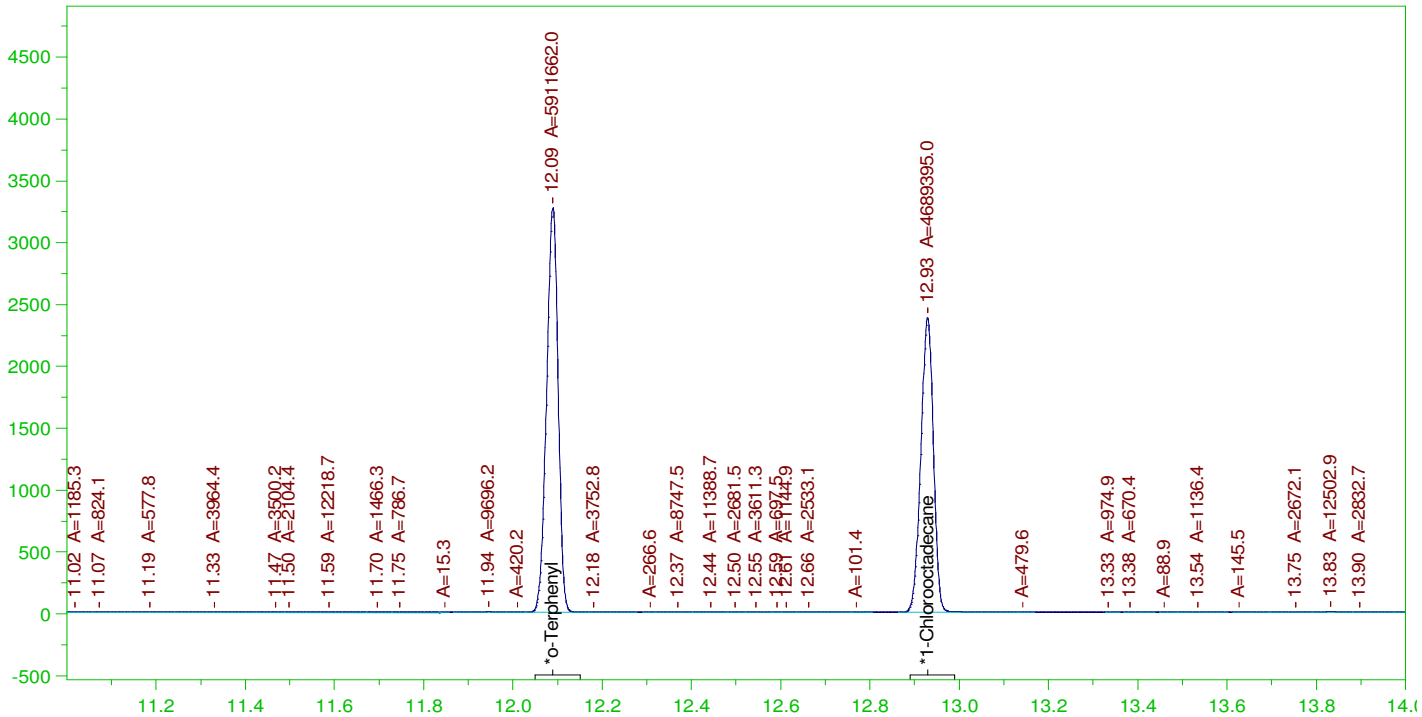
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:44420.41 RRO AMOUNT: 1.775385E-03

G:\org\HP4\dat\HP4101921_b\Review\061_B21101306-007A_DR_8015-OILS-AC-L%.xls

**ERH1821 (RHSF)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0061.RAW B21101306-007A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-007A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0061.RAW
Date & Time Acquired: 10/21/2021 9:33:10 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

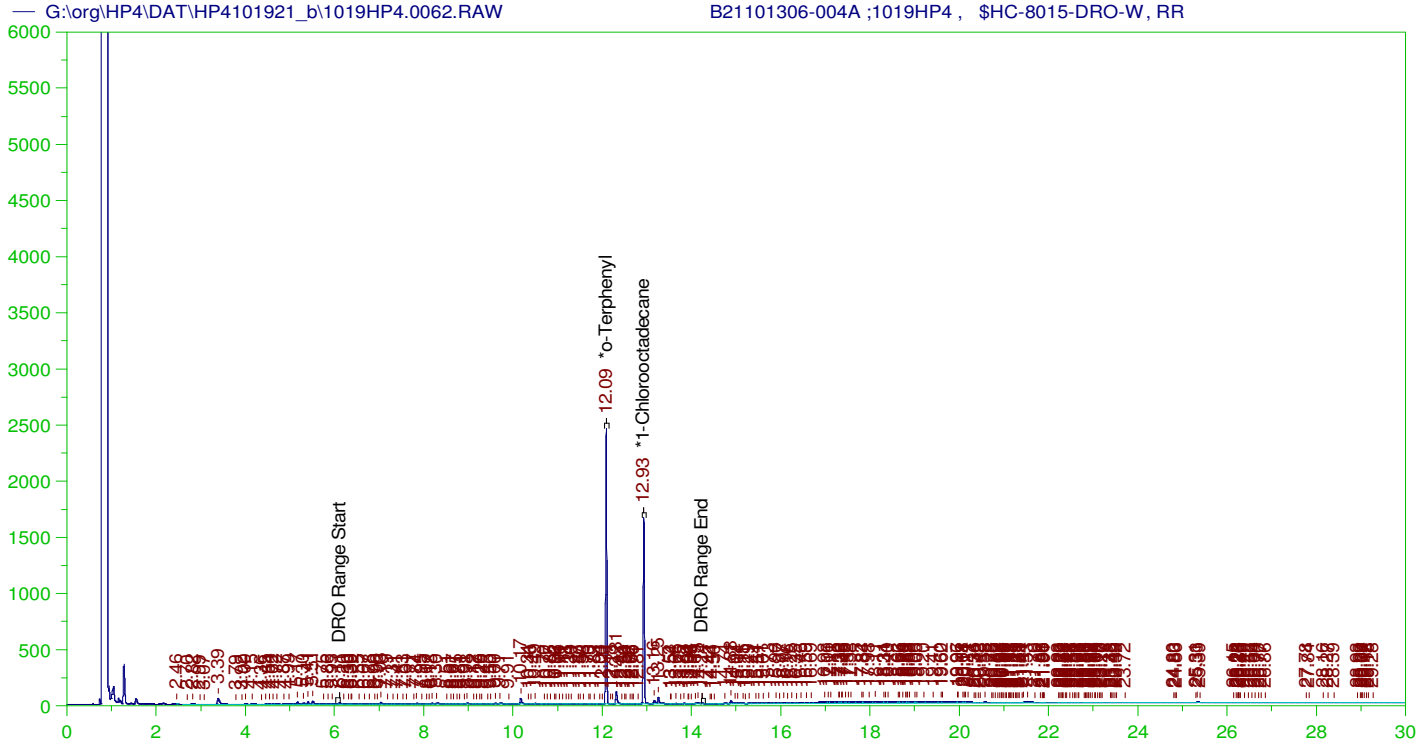
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.089 | .196 | .187 | 95.45 | - |
| *1-Chlorooctadecane | 12.929 | .196 | .148 | 75.71 | - |

DRO Area:211718.5 DRO Amount: 7.974291E-03
TEH Area:596721.2 TEH Amount: 2.247526E-02

G:\org\HP4\dat\HP4101921_b\Review\061_B21101306-007A_DS_8015-24-NA-L#.xls

**ERH1813 (RHMW05)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0062.RAW B21101306-004A ;1019HP4 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-004A ;1019HP4 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0062.RAW
Date & Time Acquired: 10/21/2021 10:18:00 AM
Method File: G:\Org\HP4\methods\DR_8015-101962-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

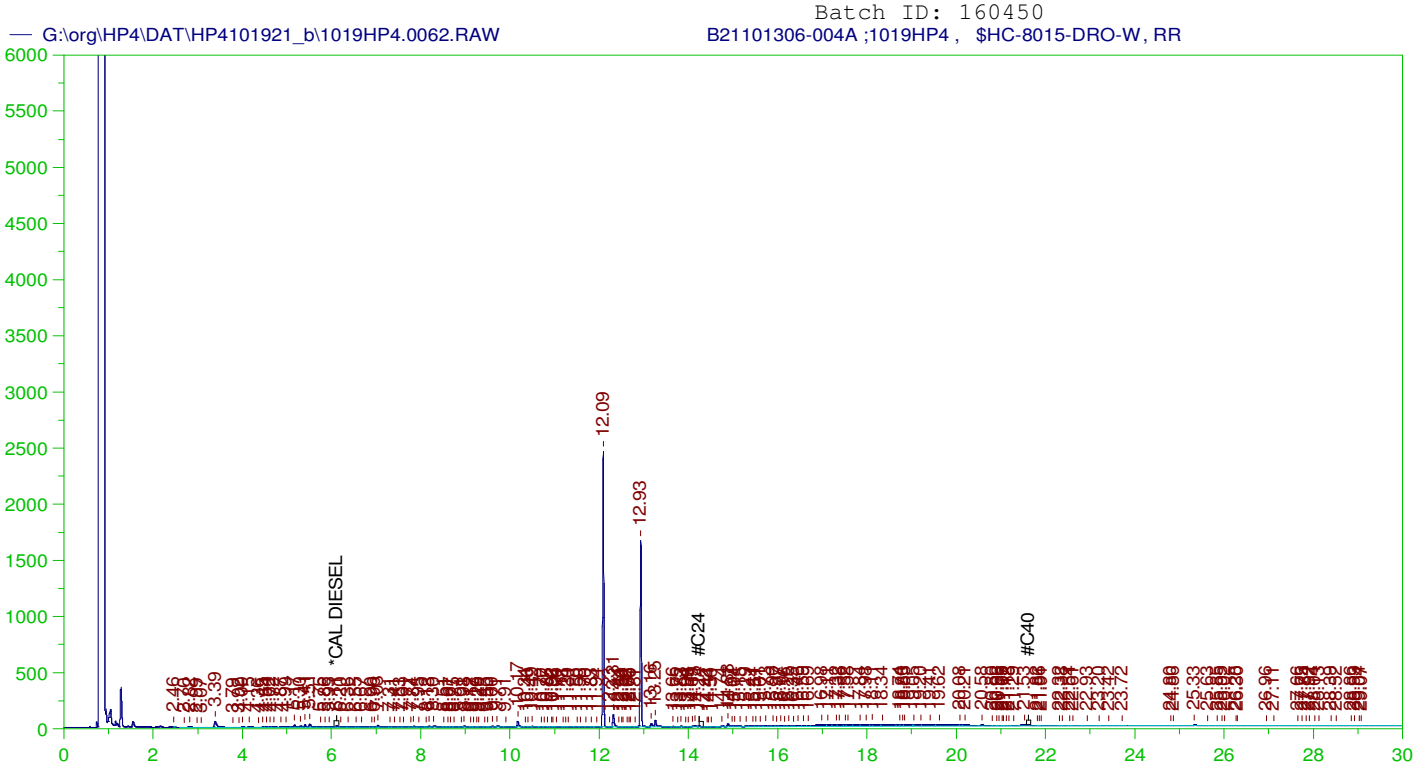
Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.087 | .194 | .139 | 71.39 | - |
| *1-Chlorooctadecane | 12.927 | .194 | .101 | 52.21 | - |

DRO Area:1583107 DRO Amount: 5.904817E-02
TEH Area:5067591 TEH Amount: 0.1890156

G:\org\HP4\dat\HP4101921_b\Review\062_B21101306-004A_DR_8015-101962-24-NA-L%.xls

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-004A ;1019HP4 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0062.RAW
Date & Time Acquired: 10/21/2021 10:18:00 AM
Method File: G:\Org\HP4\methods\DR_8015-101962-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:2655942 RRO AMOUNT: 0.1051215

**ERH1813 (RHMW05)** Batch ID: 160450

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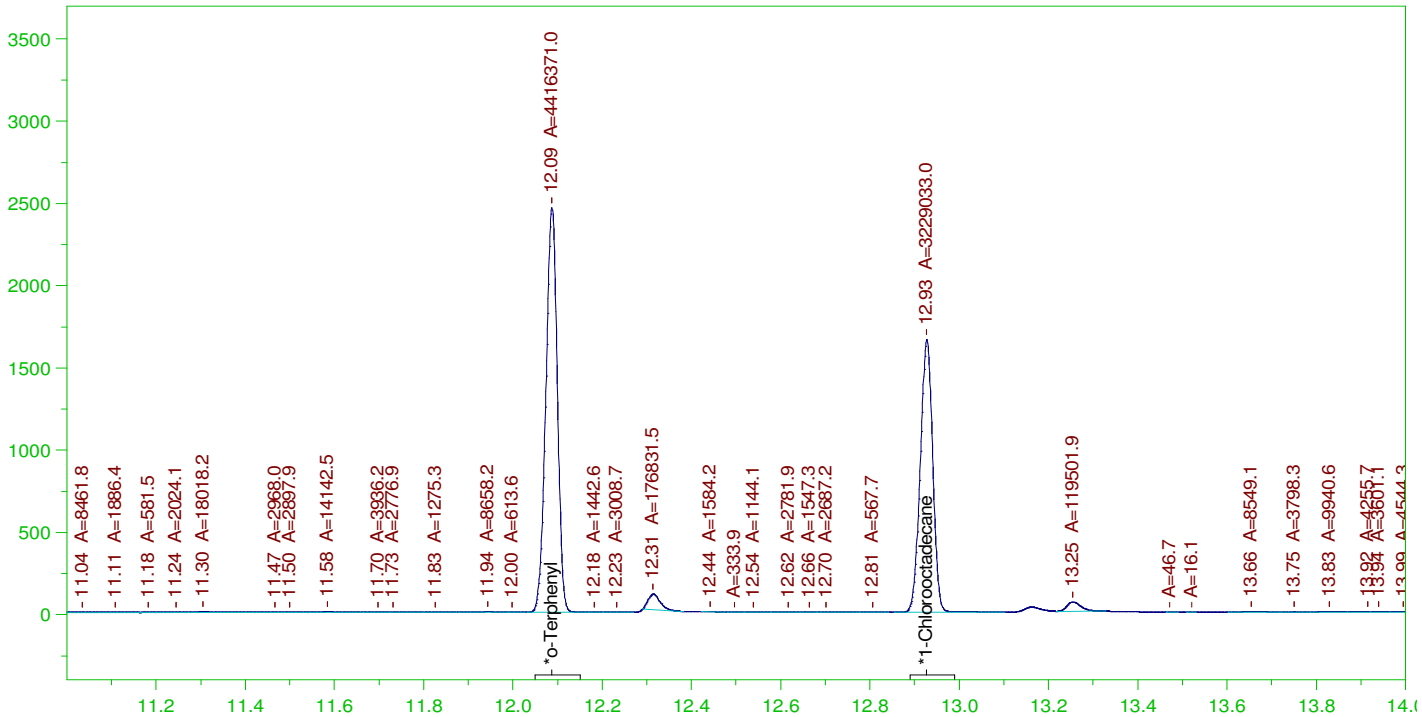


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-004A ;1019HP4 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0062.RAW
Date & Time Acquired: 10/21/2021 10:18:00 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.087 | .194 | .138 | 71.3 | - |
| *1-Chlorooctadecane | 12.927 | .194 | .101 | 52.13 | - |

DRO Area:1300716 DRO Amount: 4.851528E-02
TEH Area:2254777 TEH Amount: 8.410073E-02

G:\org\HP4\dat\HP4101921_b\Review\062_B21101306-004A_DS_8015-24-NA-L#.xls

**ERH1804 (RHMW01R)** Batch ID: 160450

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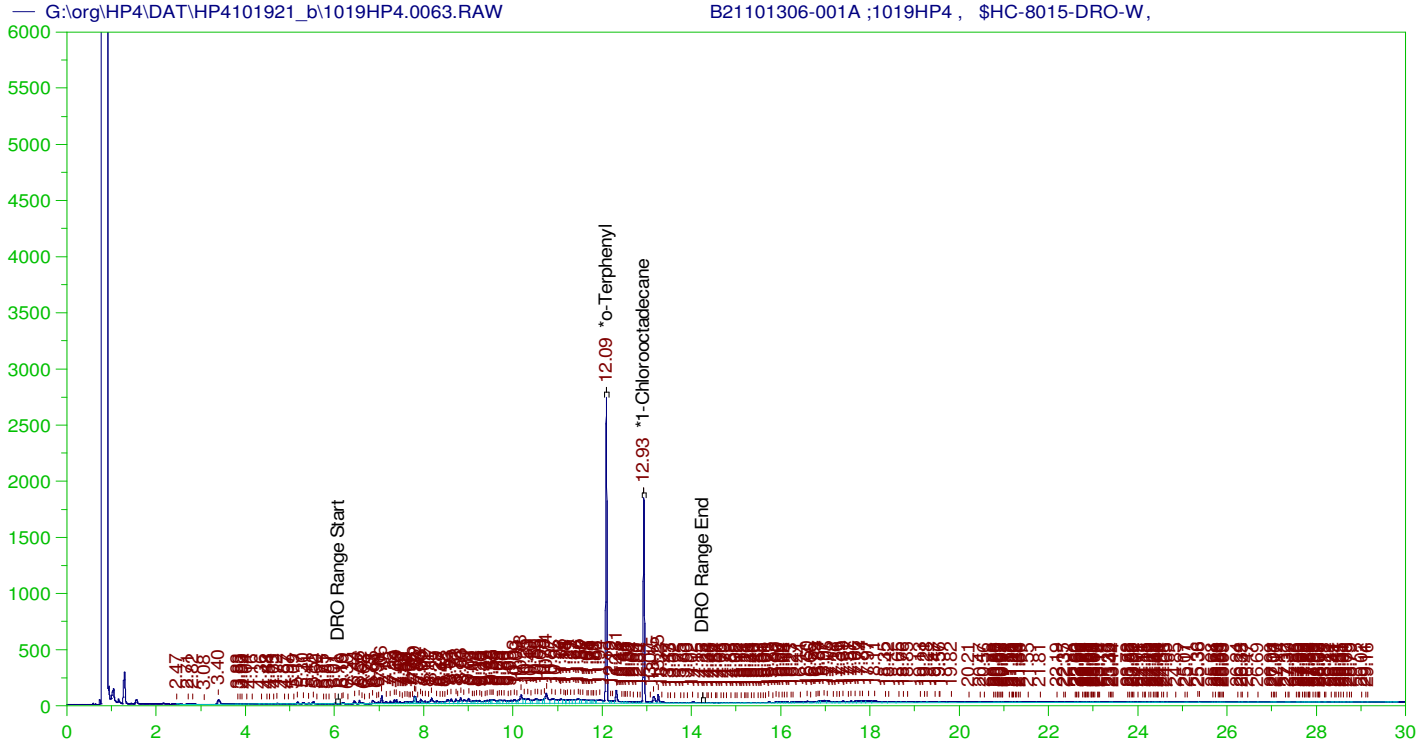


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-001A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0063.RAW
Date & Time Acquired: 10/21/2021 11:02:41 AM
Method File: G:\Org\HP4\methods\D3_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.089 | .196 | .163 | 83.28 | - |
| *1-Chlorooctadecane | 12.928 | .196 | .117 | 59.52 | - |

DRO Area:1.123882E+07 DRO Amount: 0.4233055
TEH Area:1.812019E+07 TEH Amount: 0.6824896

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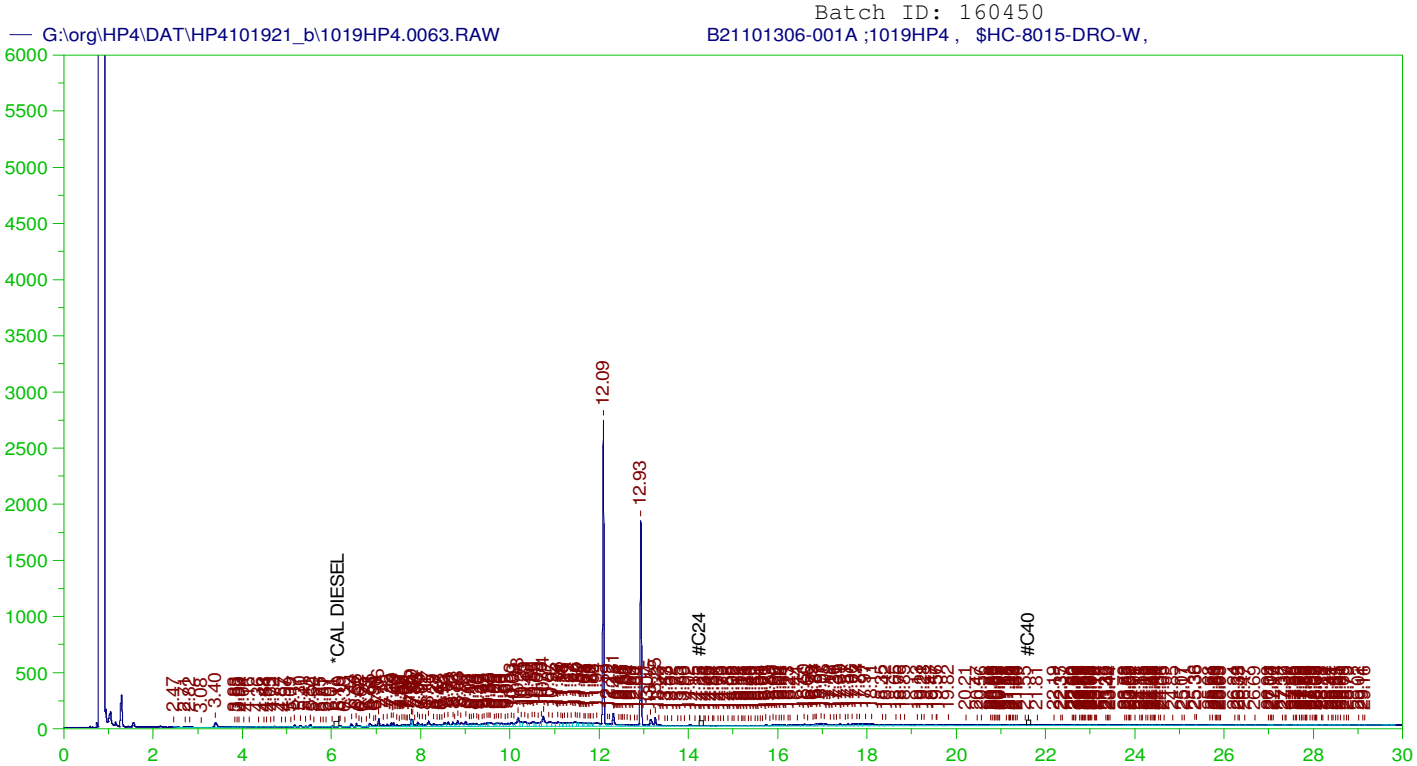
Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-001A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0063.RAW
Date & Time Acquired: 10/21/2021 11:02:41 AM
Method File: G:\Org\HP4\methods\D3_8015-OILS-101929-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:4679657 RRO AMOUNT: 0.1870355

**ERH1804 (RHMW01R)** Batch ID: 160450

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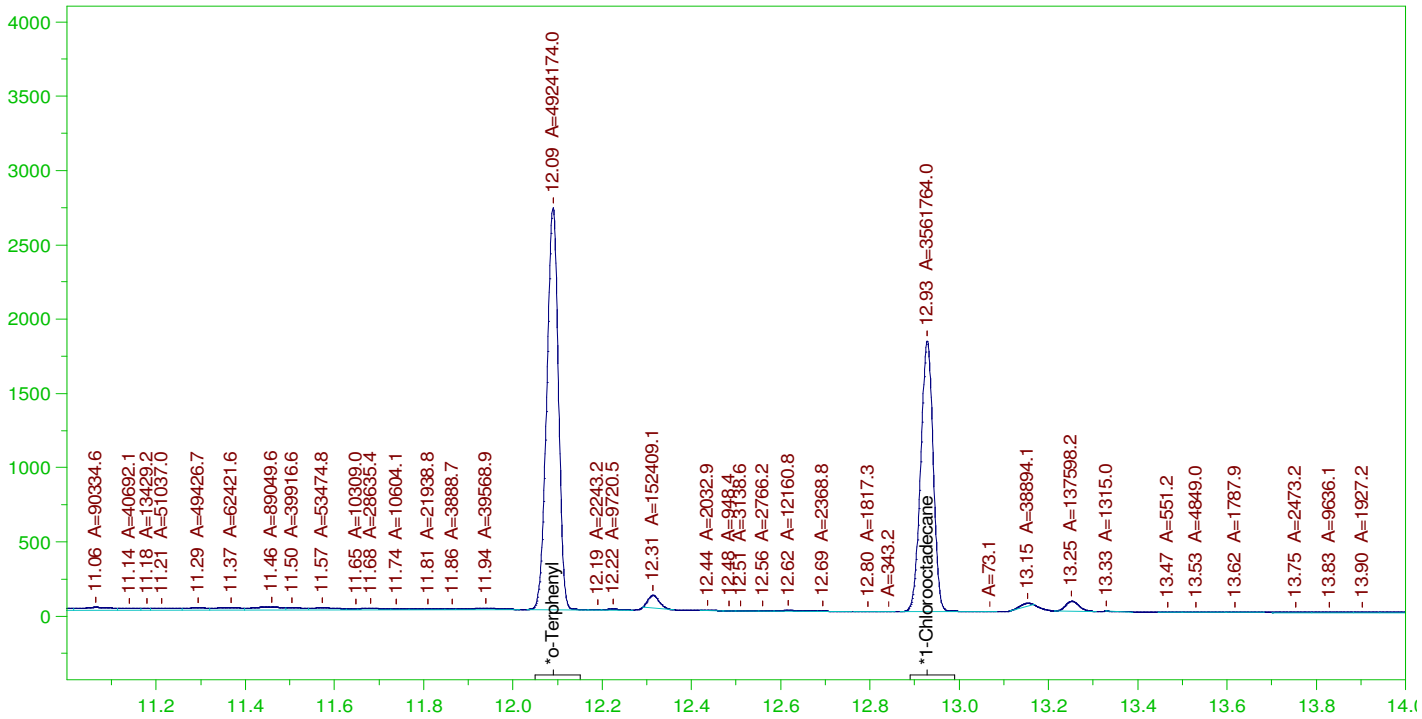



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

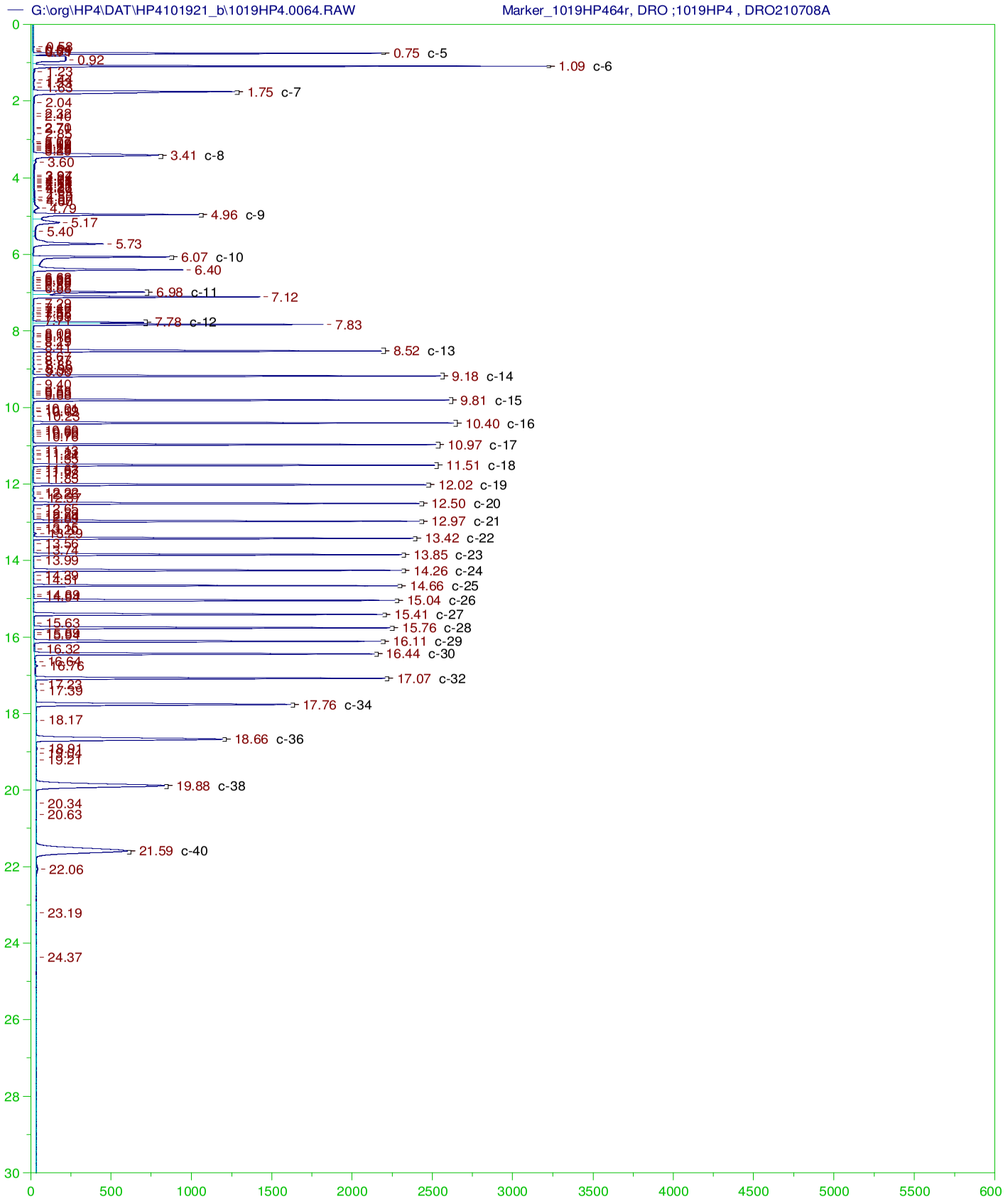
Sample Name: B21101306-001A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0063.RAW
Date & Time Acquired: 10/21/2021 11:02:41 AM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.089 | .196 | .156 | 79.5 | - |
| *1-Chlorooctadecane | 12.928 | .196 | .113 | 57.51 | - |

DRO Area:5550255 DRO Amount: 0.2090481
TEH Area:6591330 TEH Amount: 0.2482597

G:\org\HP4\dat\HP4101921_b\Review\063_B21101306-001A_DS_8015-24-NA-L#.xls


G:\org\HP4\DAT\HP4101921_b\1019HP4.0064.RAW
Marker_1019HP464r, DRO ;1019HP4 , DRO210708A
0.75 c-5
0.92
1.09 c-6
1.75 c-7
3.41 c-8
4.96 c-9
5.17
5.40
5.73
6.07 c-10
6.40
6.98 c-11
7.12
7.78 c-12
7.83
8.52 c-13
9.18 c-14
9.81 c-15
10.40 c-16
10.97 c-17
11.51 c-18
12.02 c-19
12.50 c-20
12.97 c-21
13.42 c-22
13.85 c-23
14.26 c-24
14.66 c-25
15.04 c-26
15.41 c-27
15.76 c-28
16.11 c-29
16.44 c-30
17.07 c-32
17.76 c-34
18.66 c-36
19.88 c-38
21.59 c-40
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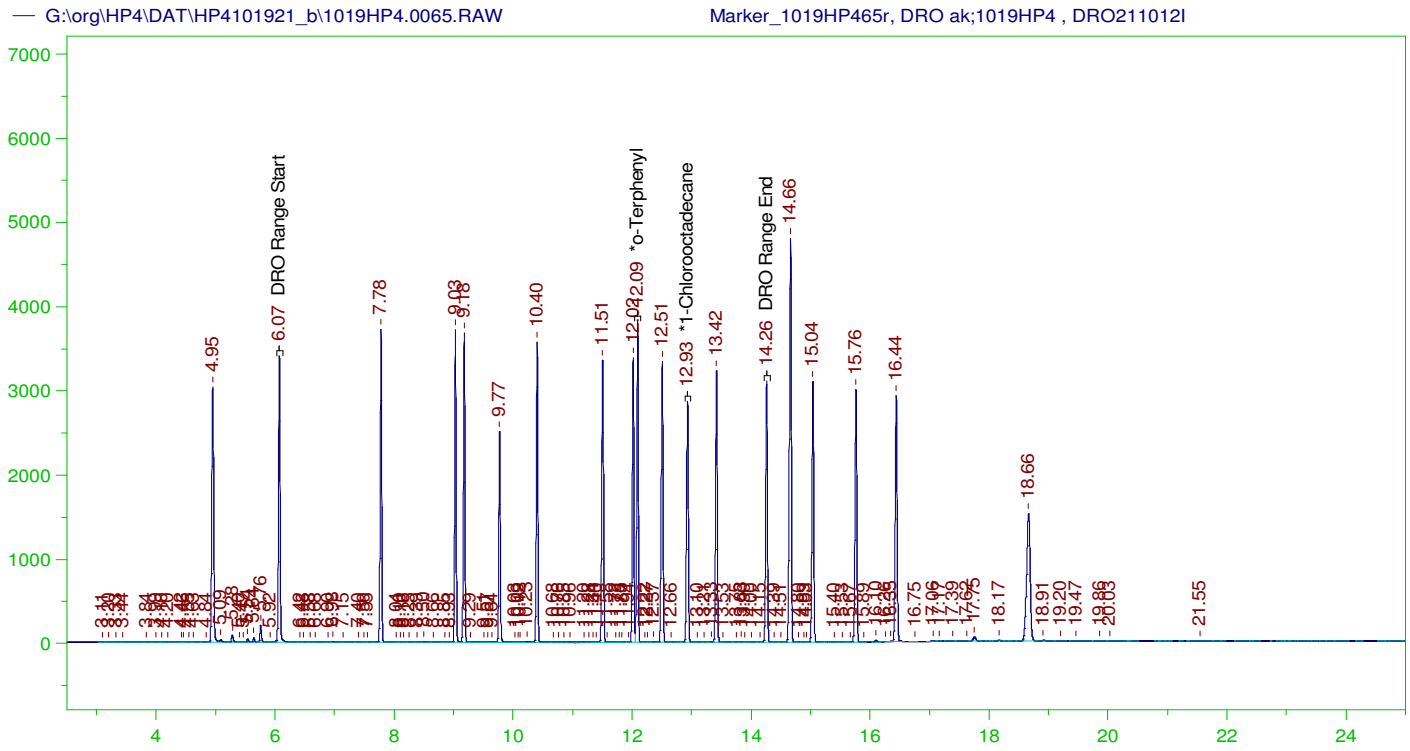



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

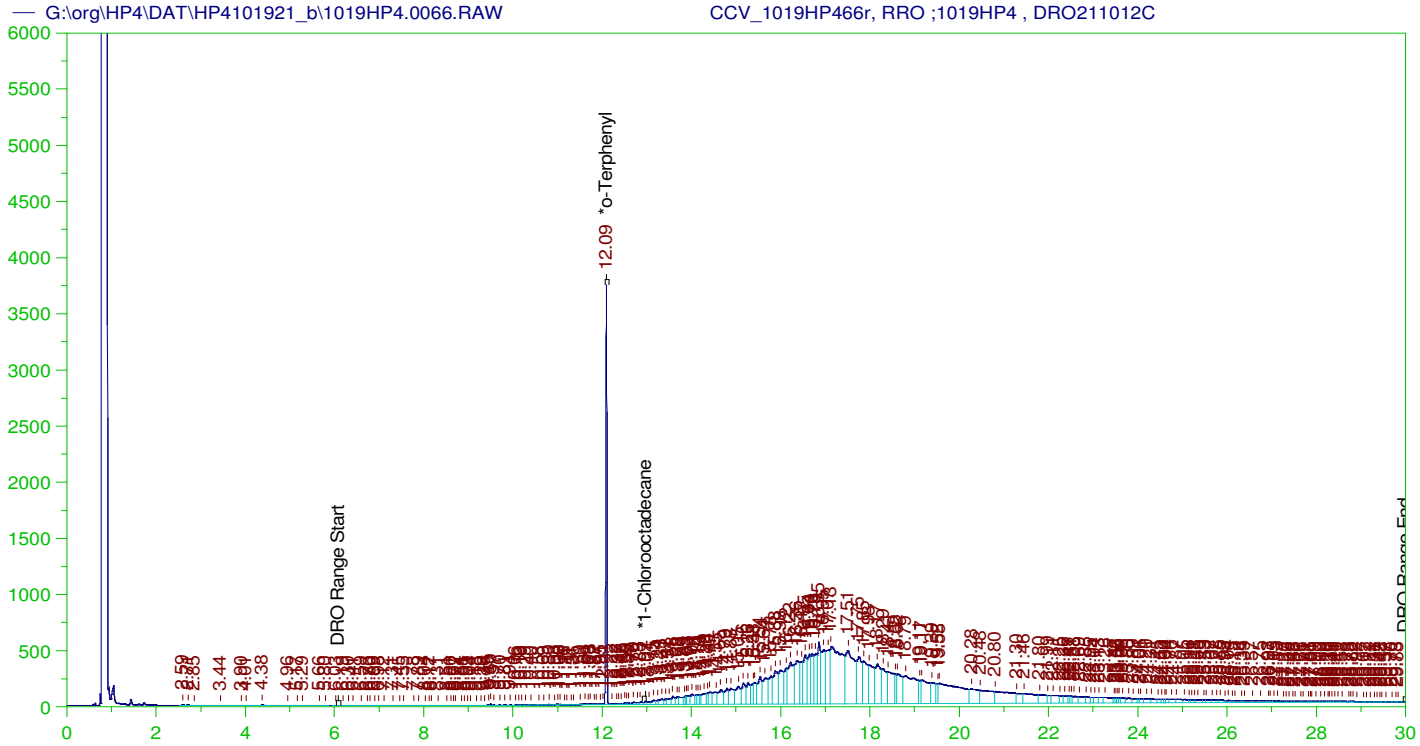
Sample Name: Marker_1019HP465r, DRO ak;1019HP4 , DRO211012I
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0065.RAW
Date & Time Acquired: 10/21/2021 12:32:25 PM
Method File: G:\Org\HP4\methods\DC_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.092 | .2 | .224 | 111.93 | - |
| *1-Chlorooctadecane | 12.931 | .2 | .185 | 92.36 | - |

DRO Area:6.945524E+07 DRO Amount: 2.668323
TEH Area:1.139833E+08 TEH Amount: 4.378995

G:\org\HP4\dat\HP4101921_b\Review\065_Marker_1019HP465r_DC_8015-24-NA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP466r, RRO ;1019HP4 , DRO211012C
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0066.RAW
Date & Time Acquired: 10/21/2021 1:17:45 PM
Method File: G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.091 | 200. | 218.551 | 109.28 | - |
| *1-Chlorooctadecane | 12.968 | 200. | 3.924 | 1.96 | - |

DRO Area:1.236897E+08 DRO Amount: 5042.473
TEH (Oil Range) Area:1.237347E+08 TEH (Oil Range) Amount: 5044.31

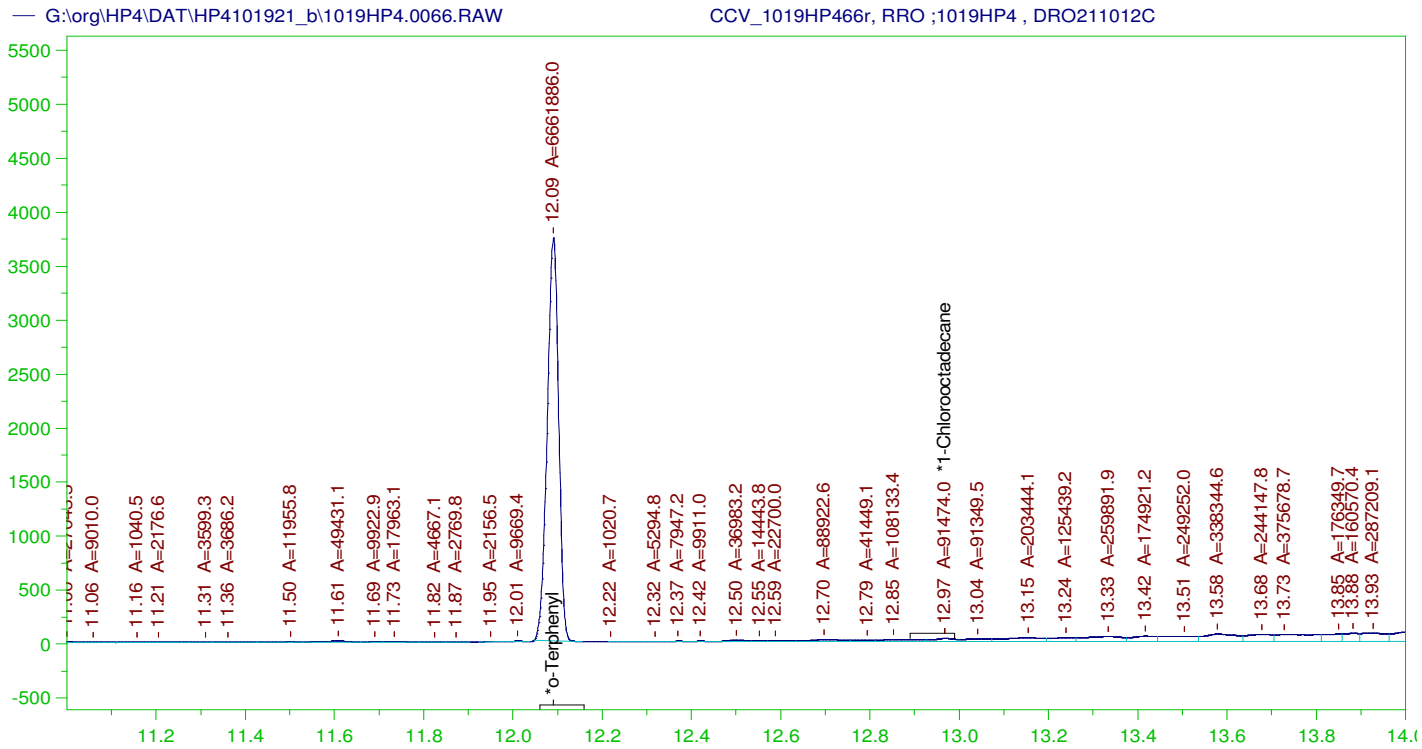
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0066.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5044.31 | 100.89 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.091 | 200. | 218.551 | 109.28 | 85-115 |
| *1-Chlorooctadecane | 12.968 | 200. | 3.924 | 1.96 | 85-115 |

AMN 10/25/2021

G:\org\HP4\dat\HP4101921_b\Review\066_CCV_1019HP466r_DC_8015-OIL-AC-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP466r, RRO ;1019HP4 , DRO211012C
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0066.RAW
Date & Time Acquired: 10/21/2021 1:17:45 PM
Method File: G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
Rt range for Diesel Range Organics: 6.04 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.091 | 200. | 215.117 | 107.56 | - |
| *1-Chlorooctadecane | 12.968 | 200. | 2.954 | 1.48 | - |

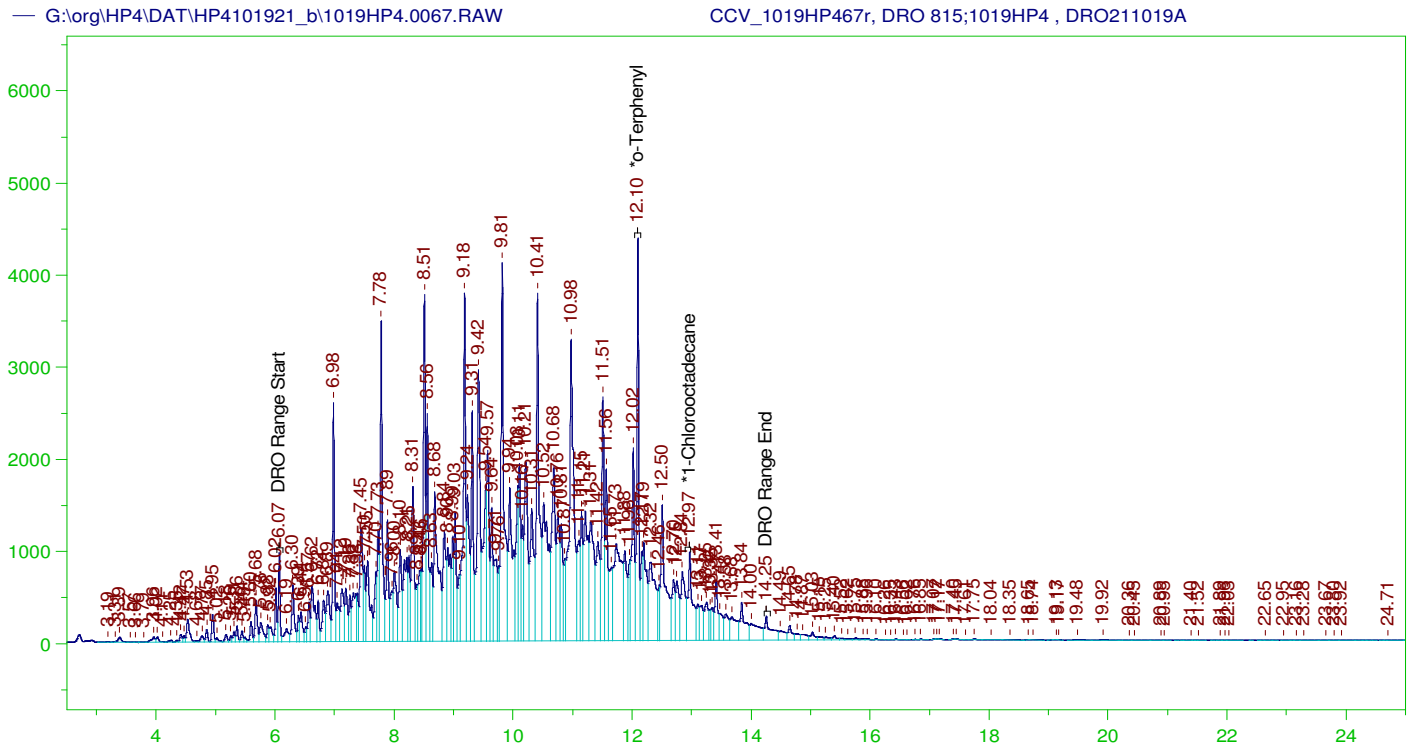
DRO Area:1.197238E+08 DRO Amount: 4880.797
TEH Area:1.197689E+08 TEH Amount: 4882.634

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0066.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4882.63 | 97.65 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.091 | 200. | 215.117 | 107.56 | 85-115 |
| *1-Chlorooctadecane | 12.968 | 200. | 2.954 | 1.48 | 85-115 |

G:\org\HP4\dat\HP4101921_b\Review\066_CCV_1019HP466r_DS_8015-OIL-AC-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP467r, DRO 815;1019HP4 , DRO211019A
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0067.RAW
Date & Time Acquired: 10/21/2021 2:03:11 PM
Method File: G:\Org\HP4\methods\DC_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.096 | 200. | 331.333 | 165.67 | - |
| *1-Chlorooctadecane | 12.968 | 200. | 154.984 | 77.49 | - |

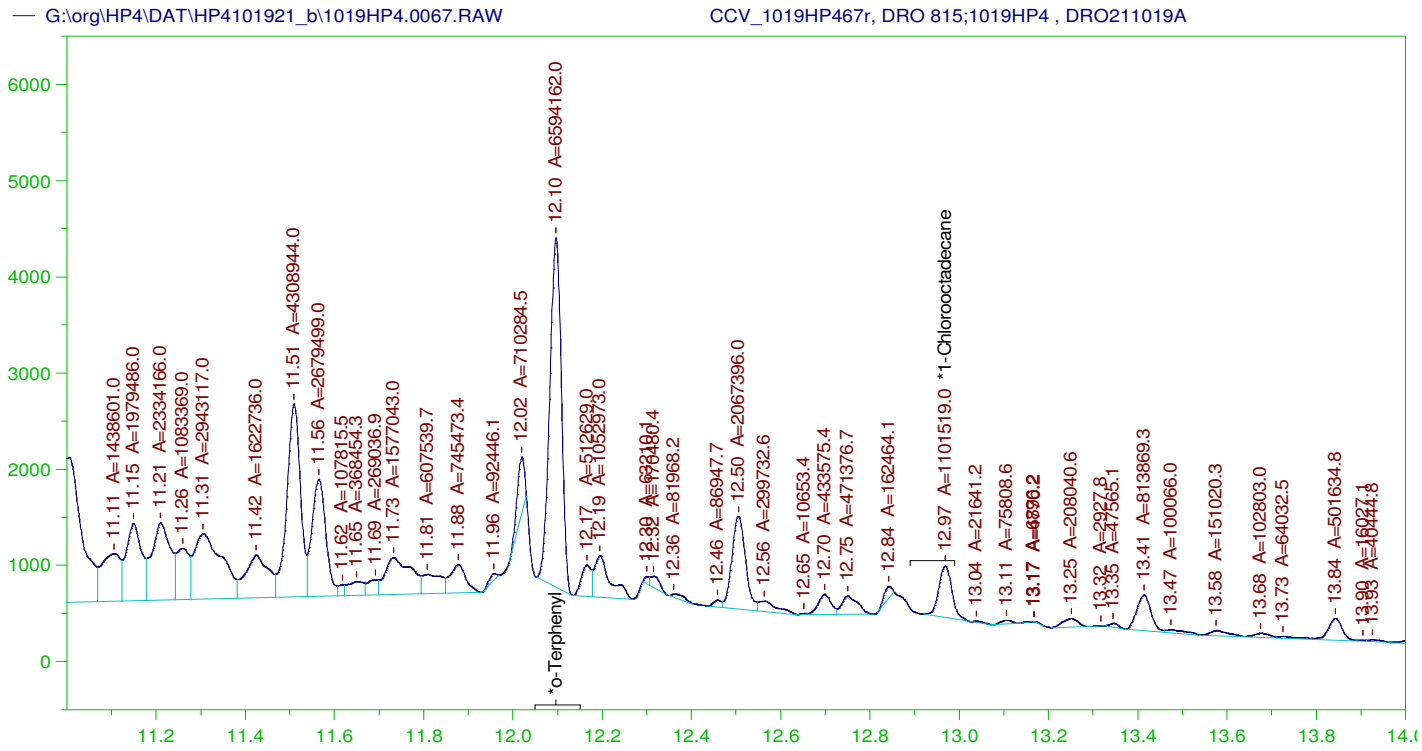
DRO Area:4.019502E+08 DRO Amount: 15442.08
TEH Area:4.164477E+08 TEH Amount: 15999.04

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0067.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15999.04 | 106.66 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.096 | 200. | 331.333 | 165.67 | 85-115 |
| *1-Chlorooctadecane | 12.968 | 200. | 154.984 | 77.49 | 85-115 |

G:\org\HP4\dat\HP4101921_b\Review\067_CCV_1019HP467r_DC_8015-24-NA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1019HP467r, DRO 815;1019HP4 , DRO211019A
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0067.RAW
Date & Time Acquired: 10/21/2021 2:03:11 PM
Method File: G:\Org\HP4\methods\DS_8015-24-NA-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.096 | 200. | 212.931 | 106.47 | - |
| *1-Chlorooctadecane | 12.968 | 200. | 35.569 | 17.78 | - |

DRO Area:2.222828E+08 DRO Amount: 8539.633
TEH Area:2.31982E+08 TEH Amount: 8912.258

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4101921_b\1019HP4.0067.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8912.26 | 59.42 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.096 | 200. | 212.931 | 106.47 | 85-115 |
| *1-Chlorooctadecane | 12.968 | 200. | 35.569 | 17.78 | 85-115 |

Write Sequence | Insert Entries|Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP4\DAT\HP4101921_b\1019HP4.01r | DCM-Baseline Check-V01 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.02r | Marker_1019HP402r, DRO ;1019HP4 , DRO210708A | g:\org\HP4\Methods\CSC211019.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.03r | Marker_1019HP403r, DRO ak;1019HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-NA-L%.met | 1000 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.04r | CCV_1019HP404r, RRO ;1019HP4 , DRO211012C | G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.05r | CCV_1019HP405r, DRO 815;1019HP4 , DRO211019A | G:\Org\HP4\methods\DC_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.06r | DCM-Baseline Check-V06 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.07r | LCS-160450 ;1019HP4 , | G:\Org\HP4\methods\D3_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.08r | LCSD-160450 ;1019HP4 , | G:\Org\HP4\methods\D3_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.09r | MB-160450 ;1019HP4 , | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.17.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.10r | B21101295-001A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.17.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.11r | B21101295-001AMS ;1019HP4 , | G:\Org\HP4\methods\D3_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 960 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.12r | B21101295-001AMS-RRO ;1019HP4 , | G:\Org\HP4\methods\D3_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.13r | DCM-Baseline Check-V13 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.14r | LCS-160450-RRO ;1019HP4 , | G:\Org\HP4\methods\D3_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.15r | DCM-Baseline Check-V15 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.16r | LCSD-160450-RRO ;1019HP4 , | G:\Org\HP4\methods\D3_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.17r | Marker_1019HP417r, DRO ;1019HP4 , DRO210708A | g:\org\HP4\Methods\CSC211019.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.18r | Marker_1019HP418r, DRO ak;1019HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-NA-L%.met | 1000 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.19r | CCV_1019HP419r, RRO ;1019HP4 , DRO211012C | G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.20r | CCV_1019HP405r, DRO 815;1019HP4 , DRO211019A | G:\Org\HP4\methods\DC_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.21r | DCM-Baseline Check-V21 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.22r | B21101279-001B ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1045 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.17.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.23r | DCM-Baseline Check-V23 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.24r | B21101291-001B ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 990 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.17.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.25r | DCM-Baseline Check-V25 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.26r | B21101297-001B ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.17.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.27r | B21101306-002A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\D3_8015-24-101927-NA-L%.met<br>G:\Org\HP4\methods\D3_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline Peak width adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.28r | DCM-Baseline Check-V28 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.29r | B21101306-003A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\D3_8015-24-NA-L%.met<br>G:\Org\HP4\methods\D3_8015-OILS-101929-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline Peak width adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.30r | DCM-Baseline Check-V30 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP4\DAT\HP4101921_b\1019HP4.31r | B21101306-004A ;1019HP4 , $HC-8015-DRO-W, NEEDS RR DUE TO BASELINE | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1030 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.32r | Marker_1019HP432r, DRO ;1019HP4 , DRO210708A | g:\org\HP4\Methods\CSC211019.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.33r | Marker_1019HP433r, DRO ak;1019HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-NA-L%.met | 1000 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.34r | CCV_1019HP434r, RRO ;1019HP4 , DRO211012C | G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.35r | CCV_1019HP405r, DRO 815;1019HP4 , DRO211019A | G:\Org\HP4\methods\DC_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.52r | DCM-Baseline Check-V52 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.53r | Marker_1019HP453r, DRO ;1019HP4 , DRO210708A | g:\org\HP4\Methods\CSC211019.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.54r | Marker_1019HP454r, DRO ak;1019HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-NA-L%.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.55r | CCV_1019HP455r, RRO ;1019HP4 , DRO211012C | G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.56r | CCV_1019HP456r, DRO 815;1019HP4 , DRO211019A | G:\Org\HP4\methods\DC_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.57r | DCM-Baseline Check-V57 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.58r | DCM-Baseline Check-V58 | G:\Org\HP4\methods\DR_8015-MZ-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.59r | B21101306-005A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.17.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.60r | B21101306-006A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1060 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.17.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.61r | B21101306-007A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\DR_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.17.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.62r | B21101306-004A ;1019HP4 , $HC-8015-DRO-W, RR | G:\Org\HP4\methods\DR_8015-101962-24-NA-L%.met<br>G:\Org\HP4\methods\DR_8015-101962-OILS-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline now at 23.79.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.63r | B21101306-001A ;1019HP4 , $HC-8015-DRO-W, | G:\Org\HP4\methods\D3_8015-24-NA-L%.met<br>G:\Org\HP4\methods\D3_8015-OILS-101929-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width adjusted<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.64r | Marker_1019HP464r, DRO ;1019HP4 , DRO210708A | g:\org\HP4\Methods\CSC211019.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.65r | Marker_1019HP465r, DRO ak;1019HP4 , DRO211012I | G:\Org\HP4\methods\DC_8015-24-NA-L%.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.66r | CCV_1019HP466r, RRO ;1019HP4 , DRO211012C | G:\Org\HP4\methods\DC_8015-OIL-AC-L%.met<br>G:\Org\HP4\methods\DS_8015-OIL-AC-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.04 and slightly after the surrogate peak at 12.21 and scaling showing surrogate peak from 11.0-14.0. |
| G:\org\HP4\DAT\HP4101921_b\1019HP4.67r | CCV_1019HP467r, DRO 815;1019HP4 , DRO211019A | G:\Org\HP4\methods\DC_8015-24-NA-L%.met<br>G:\Org\HP4\methods\DS_8015-24-NA-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.71.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.03 and slightly after the surrogate peak at 12.29 and scaling showing surrogate peak from 11.0-14.0 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.25 17:14:23 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*21-Oct-21*

**Run ID** GCFID-HP5-B_211020A

**Run Start Date:** 10/20/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | C40 MARKE | 3/5/2028 |
| DRO211012C | 5,000 ug/mL RRO CCV 200 ug/mL OTP | | | | | CCV-RRO | 9/30/2024 |
| DRO211012I | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |
| DRO211019A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787963 | MARKER_1020 | HC-8015-DRO- | SAMP | | 10/20/2021 3:33: | 1 | R369031 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.755523 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.538354 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2384871 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 119% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.755523 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787964 | CCV_1020HP50 | HC-8015-DRO- | CCV | | 10/20/2021 4:16: | 1 | R369031 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.709902 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 94% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2070353 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787965 | CCV_1020HP50 | HC-8015-DRO- | CCV | | 10/20/2021 5:01: | 1 | R369031 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.97035 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 100% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.51173 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 103% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2050955 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787966 | LCS-160450 | HC-8015-DRO- | LCS-DOD | | 10/20/2021 6:27: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 11.54559 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 77% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 12.2566 | | 15 | 0 | 0 | 0.0329 | 0.3 | 0 | 82% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1765464 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 88% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787967 | LCSD-160450 | HC-8015-DRO- | LCSD-DOD | | 10/20/2021 7:10: | 1 | 160450 | 10/18/2021 | 0 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 12.21001 | | 15 | 0 | 11.54559 | 0.0389 | 0.3 | 0 | 81% | 36 | 132 | 6% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 13.01321 | | 15 | 0 | 12.2566 | 0.0329 | 0.3 | 0 | 87% | 60 | 132 | 6% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1844825 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 92% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787968 | MB-160450 | HC-8015-DRO- | MBLK | | 10/20/2021 7:53: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0329 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1629633 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 81% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787969 | B21101295-001 | HC-8015-DRO- | SAMP | | 10/20/2021 8:36: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787969 | B21101295-001 | HC-8015-DRO- | SAMP | | 10/20/2021 8:36: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0377719 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0853509 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0319459 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1586959 | | 0.1942 | 0 | 0 | 0.0004166 | 0.001942 | 0 | 82% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787970 | B21101295-001 | HC-8015-DRO- | MS-DOD | | 10/20/2021 9:19: | 1 | 160450 | 10/18/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 10.26011 | | 15.6 | 0 | 0 | 0.040456 | 0.312 | 0 | 66% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 10.88203 | | 15.6 | 0 | 0 | 0.034216 | 0.312 | 0 | 70% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1678899 | | 0.208 | 0 | 0 | 0.0004462 | 0.00208 | 0 | 81% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787971 | B21101295-001 | HC-8015-DRO- | MS-DOD | | 10/20/2021 10:0 | 1 | 160450 | 10/18/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 4.600149 | | 4.9 | 0 | 0 | 0.086142 | 0.3 | 0 | 94% | 41 | 113 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1782212 | | 0.196 | 0 | 0 | 0.0004204 | 0.002 | 0 | 91% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787972 | LCS-160450-RR | HC-8015-DRO- | LCS-DOD | | 10/20/2021 11:2 | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 3.888814 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 78% | 41 | 113 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1531043 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 77% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787973 | LCSD-160450-R | HC-8015-DRO- | LCSD-DOD | | 10/21/2021 12:5 | 1 | 160450 | 10/18/2021 | 0 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 4.304814 | | 5 | 0 | 3.888814 | 0.0879 | 0.3 | 0 | 86% | 41 | 113 | 10% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1670316 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 84% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787974 | MARKER_1020 | HC-8015-DRO- | SAMP | | 10/21/2021 2:19: | 1 | R369031 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.369852 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.910371 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2057659 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.369852 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787975 | CCV_1020HP52 | HC-8015-DRO- | CCV | | 10/21/2021 3:02: | 1 | R369031 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.6331 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 93% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2036013 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787976 | CCV_1020HP52 | HC-8015-DRO- | CCV | | 10/21/2021 3:45: | 1 | R369031 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.15407 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 101% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.70223 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 105% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2069418 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787977 | B21101306-002 | HC-8015-DRO- | SAMP | | 10/21/2021 5:11: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0.583558 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0.606052 | | 0 | 0 | 0 | 0.0316498 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1163814 | | 0.1924 | 0 | 0 | 0.0004127 | 0.001924 | 0 | 60% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787978 | B21101306-003 | HC-8015-DRO- | SAMP | | 10/21/2021 6:36: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787978 | B21101306-003 | HC-8015-DRO- | SAMP | | 10/21/2021 6:36: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0377719 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0853509 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0319459 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1204552 | | 0.1942 | 0 | 0 | 0.0004166 | 0.001942 | 0 | 62% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787979 | B21101306-001 | HC-8015-DRO- | SAMP | | 10/21/2021 8:45: | 1 | 160450 | 10/19/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.086142 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.032242 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1153885 | | 0.196 | 0 | 0 | 0.0004204 | 0.00196 | 0 | 59% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787980 | B21101306-004 | HC-8015-DRO- | SAMP | | 10/21/2021 9:27: | 1 | 160450 | 10/18/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0377719 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0853509 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0319459 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| o-Terphenyl (SGT) | S | mg/L | | 0.1193311 | | 0.1942 | 0 | 0 | 0.0004166 | 0.001942 | 0 | 61% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787981 | MARKER_1020 | HC-8015-DRO- | SAMP | | 10/21/2021 10:5 | 1 | R369031 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | A | mg/L | | 2.509583 | | 0 | 0 | 0 | 0.0389 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 4.137056 | | 0 | 0 | 0 | 0.0749 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2175133 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 109% | 50 | 150 | 0% | |
| Diesel Range Organics (C10 to C24) | X | mg/L | | 2.509583 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |

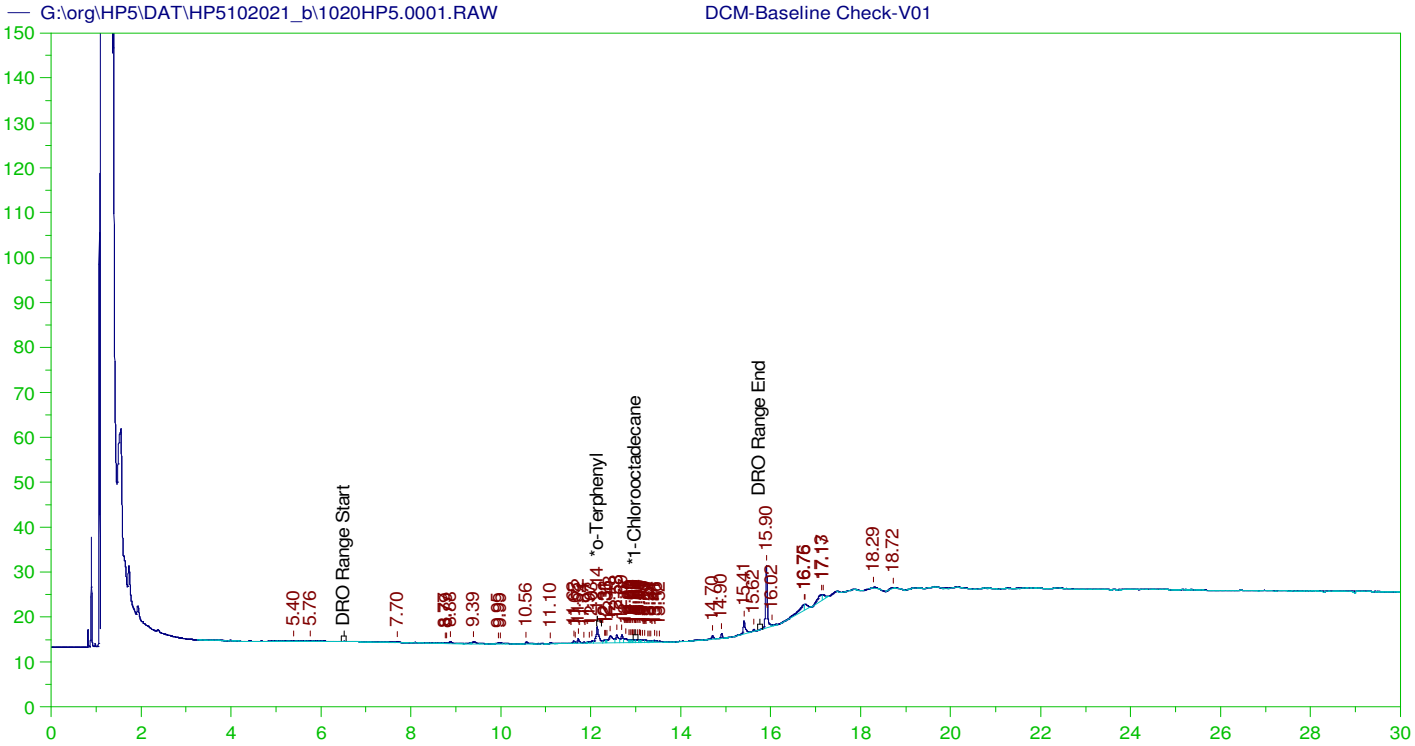
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787982 | CCV_1020HP53 | HC-8015-DRO- | CCV | | 10/21/2021 11:3 | 1 | R369031 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.704738 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 94% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2068726 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14787983 | CCV_1020HP53 | HC-8015-DRO- | CCV | | 10/21/2021 12:1 | 1 | R369031 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.84339 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 99% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.3817 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 103% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2034899 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5102021_b\1020HP5.01r | DCM-Baseline Check-V01 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.03r | MARKER_1020HP503r, C40 ;1020HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211020.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.04r | MARKER_1020HP504r, DRO ;1020HP5 , DRO211012I | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.05r | CCV_1020HP505r, RRO ;1020HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.06r | CCV_1020HP506r, DRO ;1020HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.07r | DCM-Baseline Check-V07 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.08r | LCS-160450 ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.09r | LCSD-160450 ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_8015-102009-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.10r | MB-160450 ;1020HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.11r | B21101295-001A ;1020HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.12r | B21101295-001AMS ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_8015-102009-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 960 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.13r | B21101295-001AMS-RRO ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.15r | LCS-160450-RRO ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.16r | DCM-Baseline Check-V16 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.17r | LCSD-160450-RRO ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.18r | MARKER_1020HP518r, C40 ;1020HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211020.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.19r | MARKER_1020HP519r, DRO ;1020HP5 , DRO211012I | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.20r | CCV_1020HP520r, RRO ;1020HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.21r | CCV_1020HP521r, DRO ;1020HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.22r | DCM-Baseline Check-V22 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.23r | B21101306-002A ;1020HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.24r | DCM-Baseline Check-V24 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.25r | B21101306-003A ;1020HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.26r | DCM-Baseline Check-V26 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.27r | B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-NEEDS RR DUE VERIFY | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.28r | B21101306-001A ;1020HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.29r | B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-RR | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.30r | MARKER_1020HP530r, C40 ;1020HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211020.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.31r | MARKER_1020HP531r, DRO ;1020HP5 , DRO211012I | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.32r | CCV_1020HP532r, RRO ;1020HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.33r | CCV_1020HP533r, DRO ;1020HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1 | 1 | 1 | 1 | 0 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

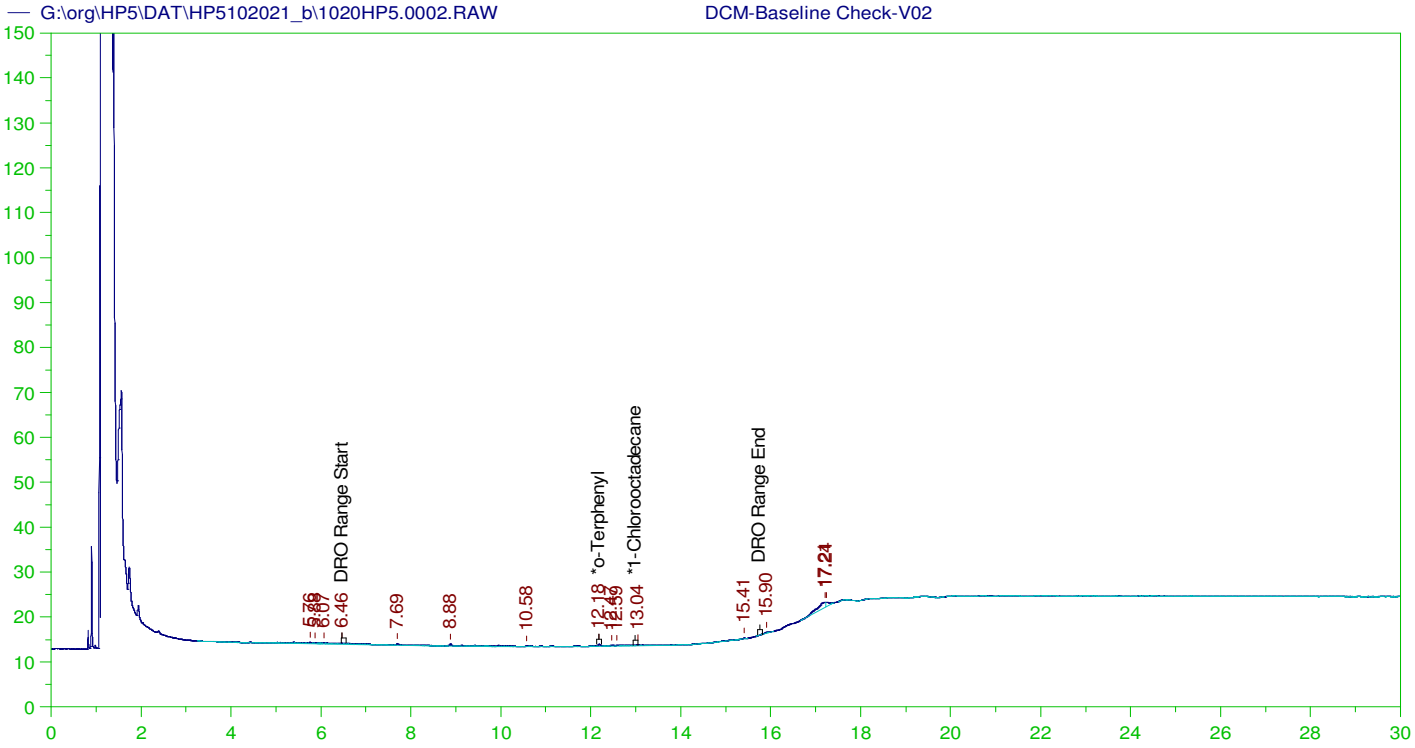
Sample Name: DCM-Baseline Check-V01
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0001.RAW
Date & Time Acquired: 10/20/2021 1:26:56 PM
Method File: G:\Org\HP5\Methods\DR_8015-HT-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 15.81

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.144 | 200. | .476 | .24 | - |
| *1-Chlorooctadecane | 12.991 | 200. | .025 | .01 | - |

DRO Area:107736.7 DRO Amount: 3.657381
TEH Area:211688.5 TEH Amount: 7.186276

G:\org\HP5\dat\HP5102021_b\Review\001_DCM-Baseline Chec_DR_8015-HT-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

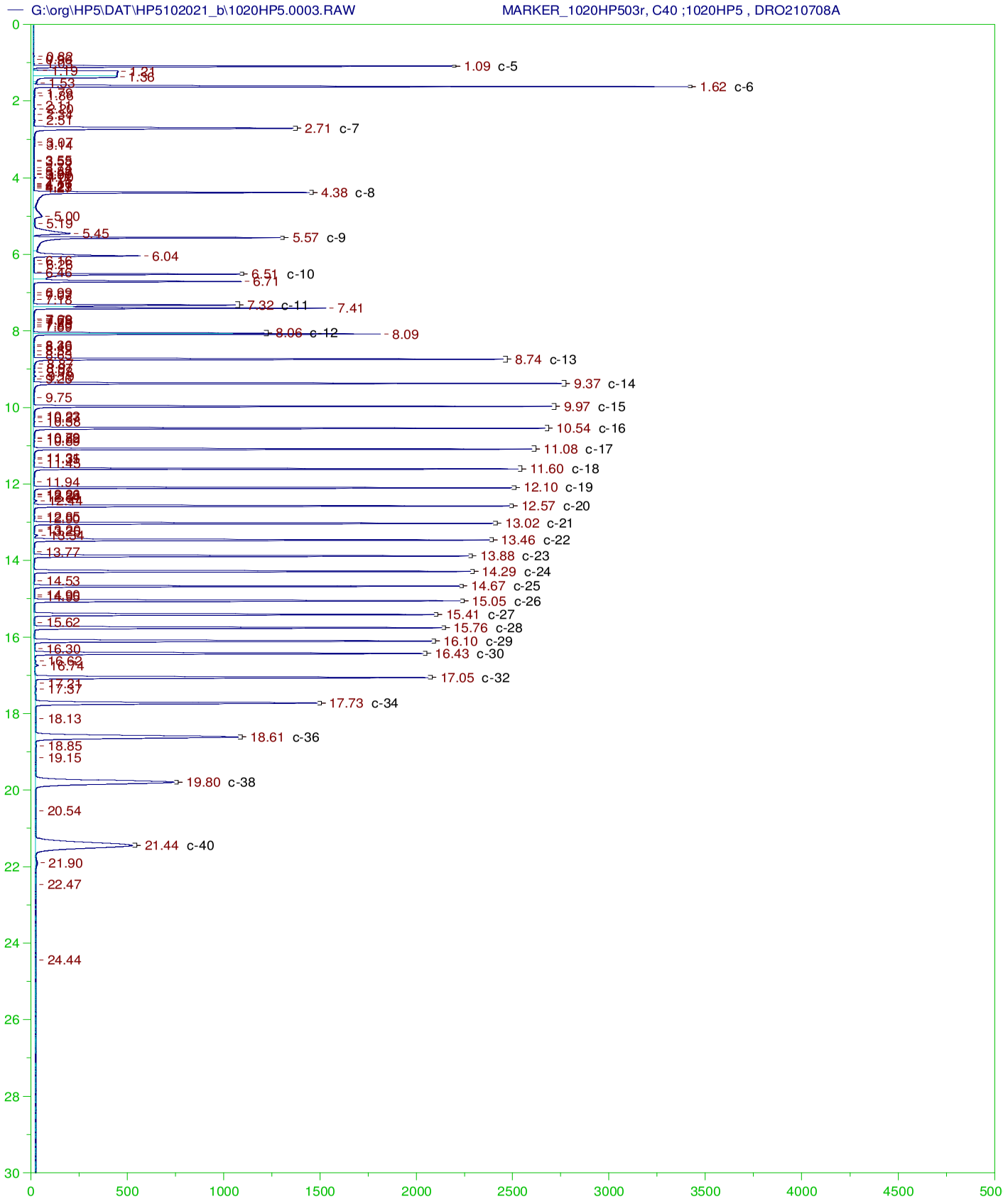
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0002.RAW
Date & Time Acquired: 10/20/2021 2:09:15 PM
Method File: G:\Org\HP5\Methods\DR_8015-HT-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 15.81

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.182 | 200. | .047 | .02 | - |
| *1-Chlorooctadecane | 29.989 | 200. | . | . | - |

DRO Area:27934.81 DRO Amount: 0.9483144
TEH Area:78702.4 TEH Amount: 2.671742

G:\org\HP5\dat\HP5102021_b\Review\002_DCM-Baseline Chec_DR_8015-HT-LEXP.xls


G:\org\HP5\DAT\HP5102021_b\1020HP5.0003.RAW
MARKER_1020HP503r, C40 ;1020HP5 , DRO210708A
1.09 c-5
1.62 c-6
2.71 c-7
4.38 c-8
5.57 c-9
6.51 c-10
7.32 c-11
8.06 c-12
8.74 c-13
9.37 c-14
9.97 c-15
10.54 c-16
11.08 c-17
11.60 c-18
12.10 c-19
12.57 c-20
13.02 c-21
13.46 c-22
13.88 c-23
14.29 c-24
14.67 c-25
15.05 c-26
15.41 c-27
15.76 c-28
16.10 c-29
16.43 c-30
17.05 c-32
17.73 c-34
18.61 c-36
19.80 c-38
21.44 c-40
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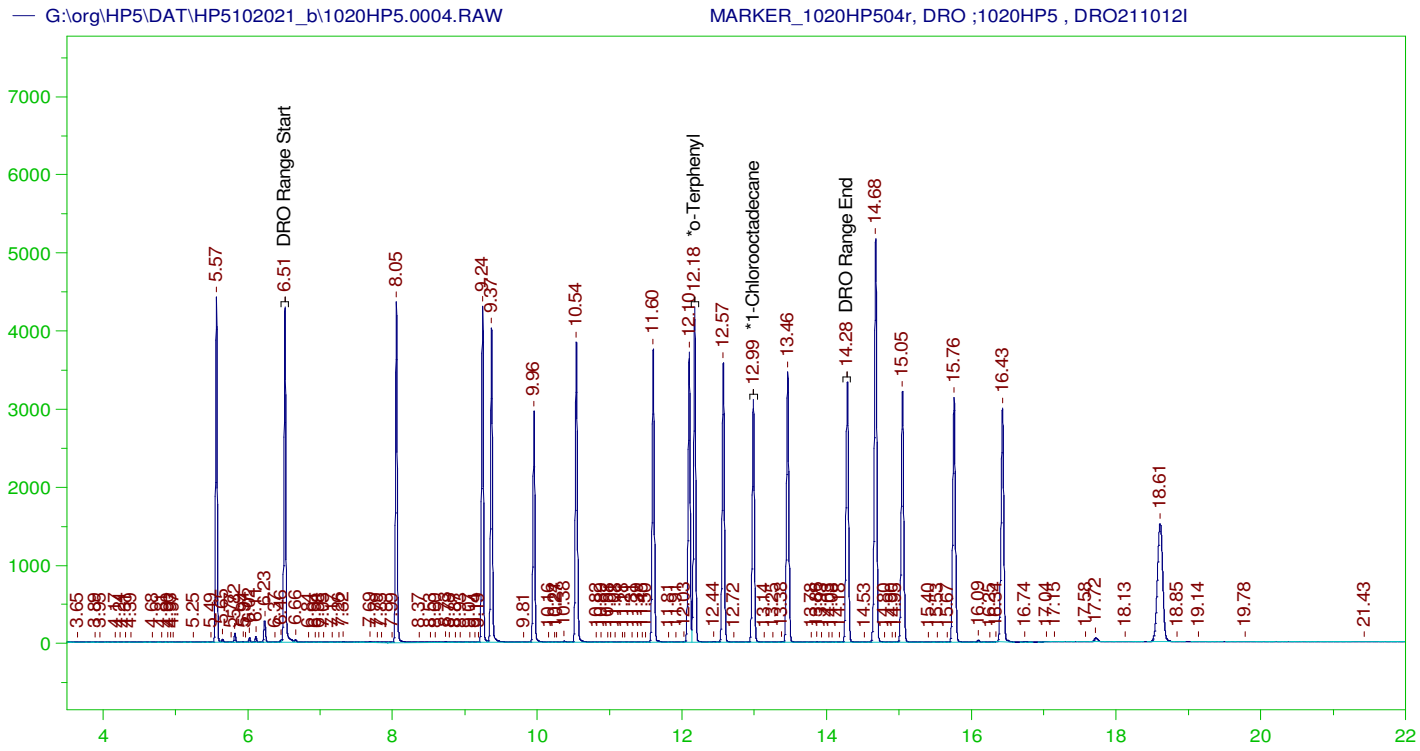


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1020HP504r, DRO ;1020HP5 , DRO211012I
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0004.RAW
Date & Time Acquired: 10/20/2021 3:33:56 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.175 | .2 | .238 | 119.24 | - |
| *1-Chlorooctadecane | 12.986 | .2 | .193 | 96.56 | - |

DRO Area:8.117034E+07 DRO Amount: 2.755523
TEH Area:1.336878E+08 TEH Amount: 4.538354

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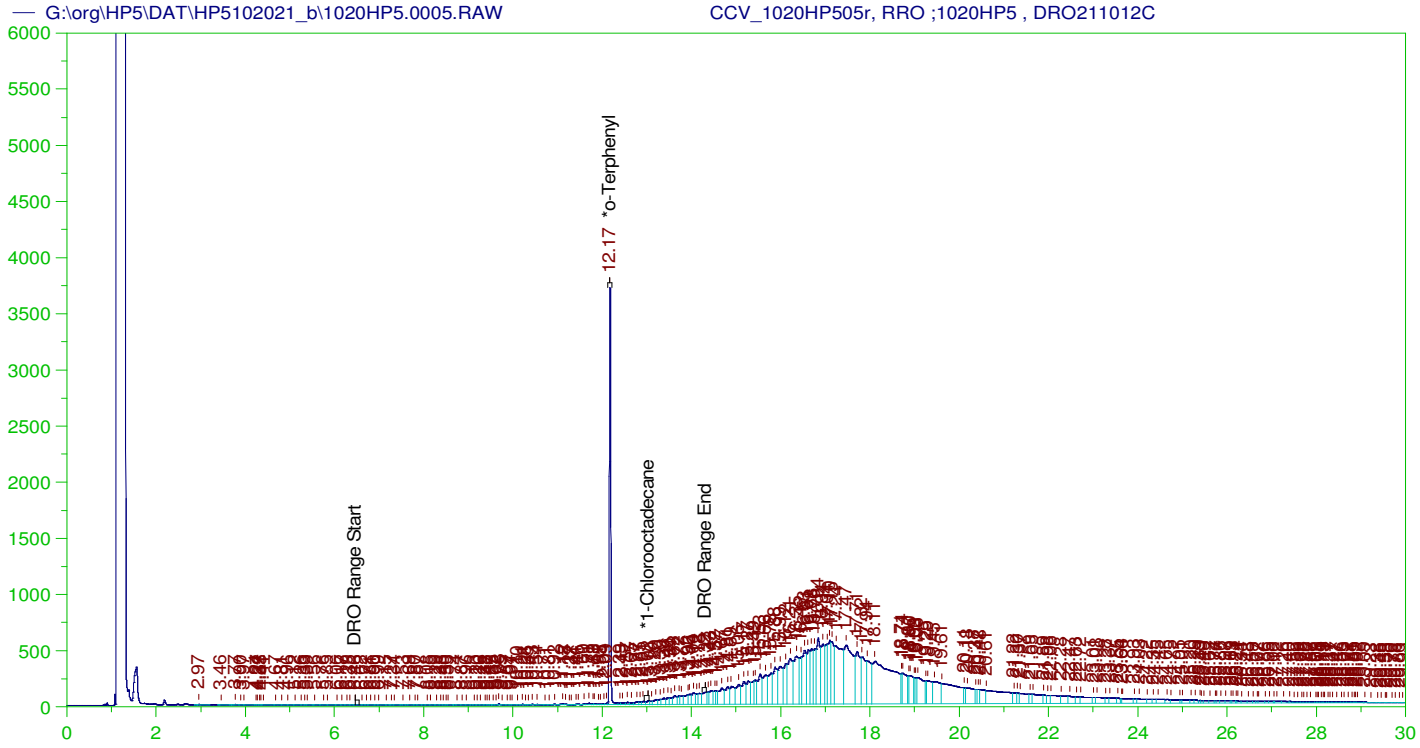


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP505r, RRO ;1020HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0005.RAW
Date & Time Acquired: 10/20/2021 4:16:27 PM
Method File: G:\Org\HP5\Methods\DC_OIL-AK-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.174 | 200. | 211.602 | 105.8 | - |
| *1-Chlorooctadecane | 13.023 | 200. | 4.866 | 2.43 | - |

DRO Area:6778759 DRO Amount: 237.4978
TEH (Oil Range) Area:1.34432E+08 TEH (Oil Range) Amount: 4709.902

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4709.9 | 94.2 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.174 | 200. | 211.602 | 105.8 | 85-115 |
| *1-Chlorooctadecane | 13.023 | 200. | 4.866 | 2.43 | 85-115 |

AMN 10/25/2021

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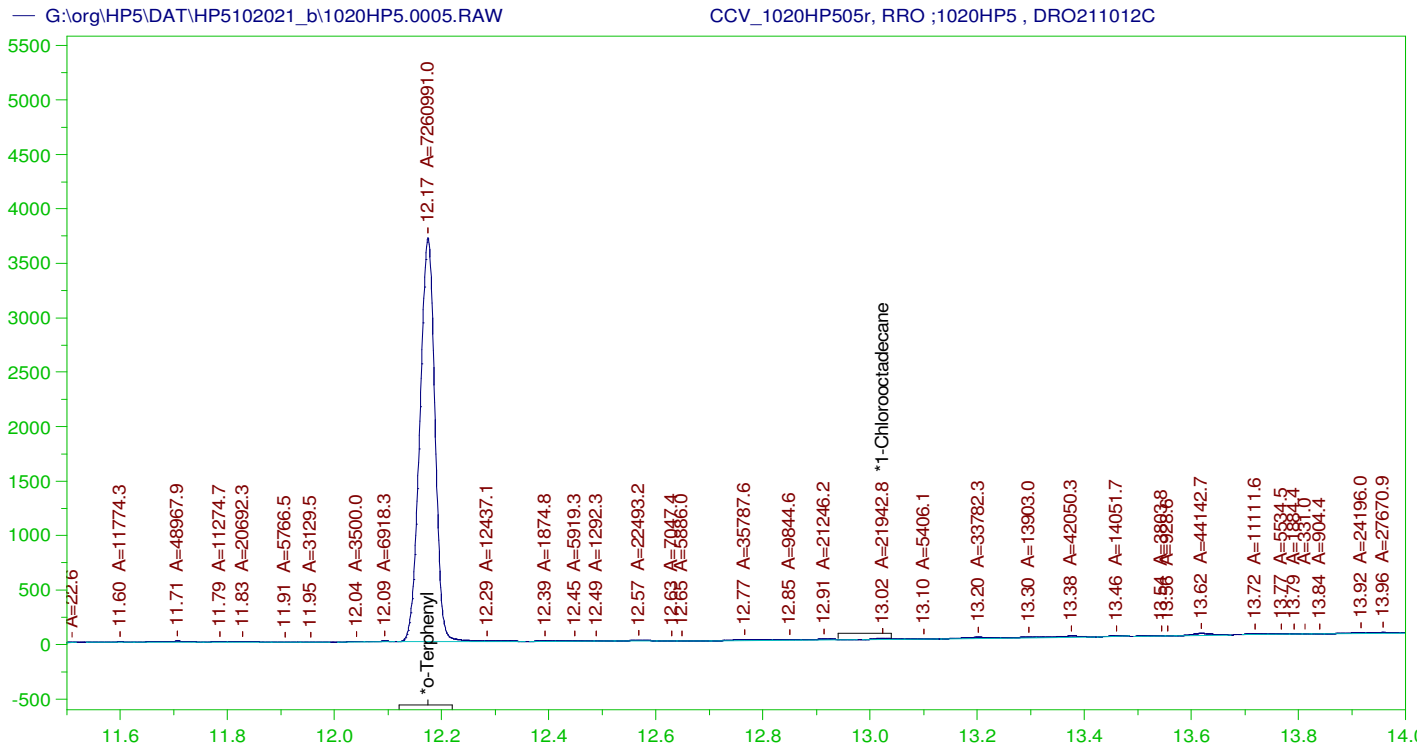


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP505r, RRO ;1020HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0005.RAW
Date & Time Acquired: 10/20/2021 4:16:27 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.174 | 200. | 207.035 | 103.52 | - |
| *1-Chlorooctadecane | 13.023 | 200. | .626 | .31 | - |

DRO Area:842390.4 DRO Amount: 29.51364
TEH Area:2099815 TEH Amount: 73.56825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 73.57 | 1.47 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.174 | 200. | 207.035 | 103.52 | 85-115 |
| *1-Chlorooctadecane | 13.023 | 200. | .626 | .31 | 85-115 |

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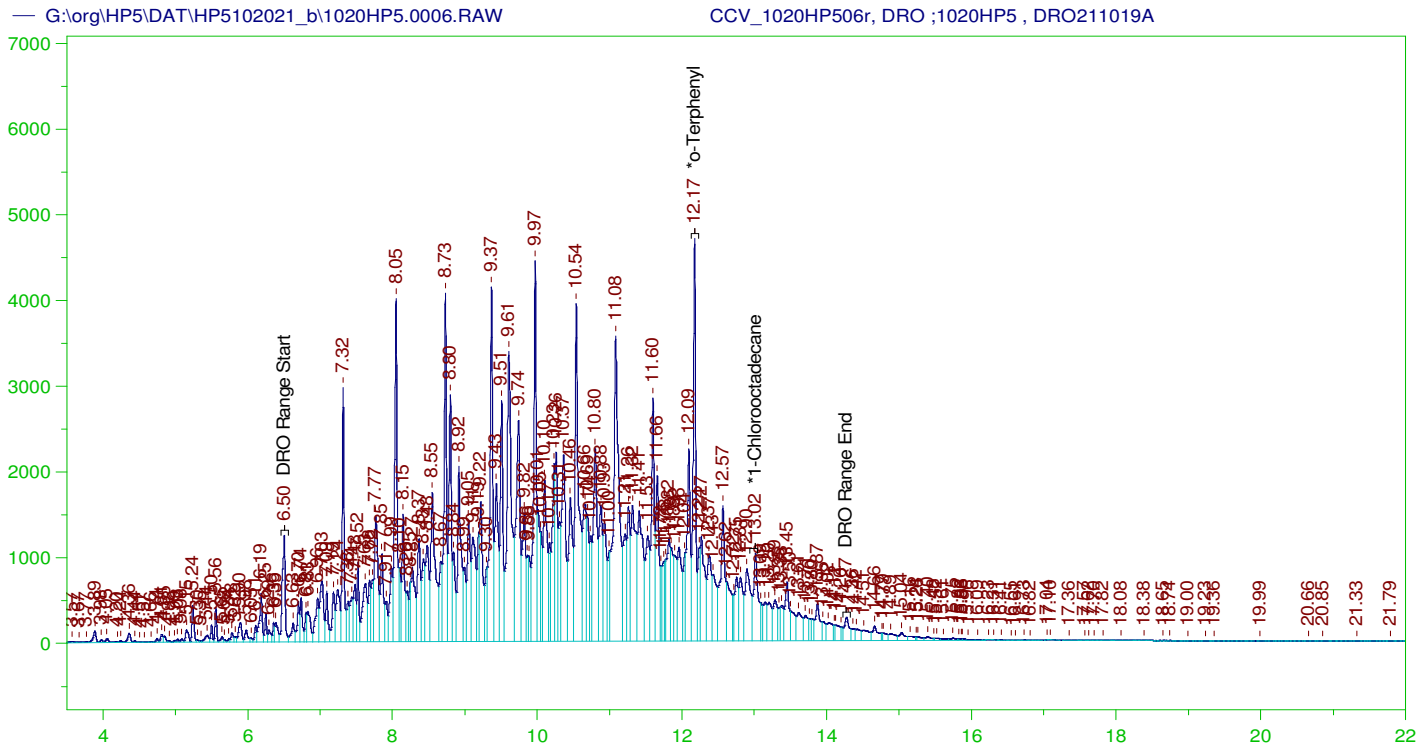


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP506r, DRO ;1020HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0006.RAW
Date & Time Acquired: 10/20/2021 5:01:36 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.174 | 200. | 329.157 | 164.58 | - |
| *1-Chlorooctadecane | 13.018 | 200. | 128.509 | 64.25 | - |

DRO Area:4.409865E+08 DRO Amount: 14970.35
TEH Area:4.569342E+08 TEH Amount: 15511.73

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15511.73 | 103.41 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.174 | 200. | 329.157 | 164.58 | 85-115 |
| *1-Chlorooctadecane | 13.018 | 200. | 128.509 | 64.25 | 85-115 |

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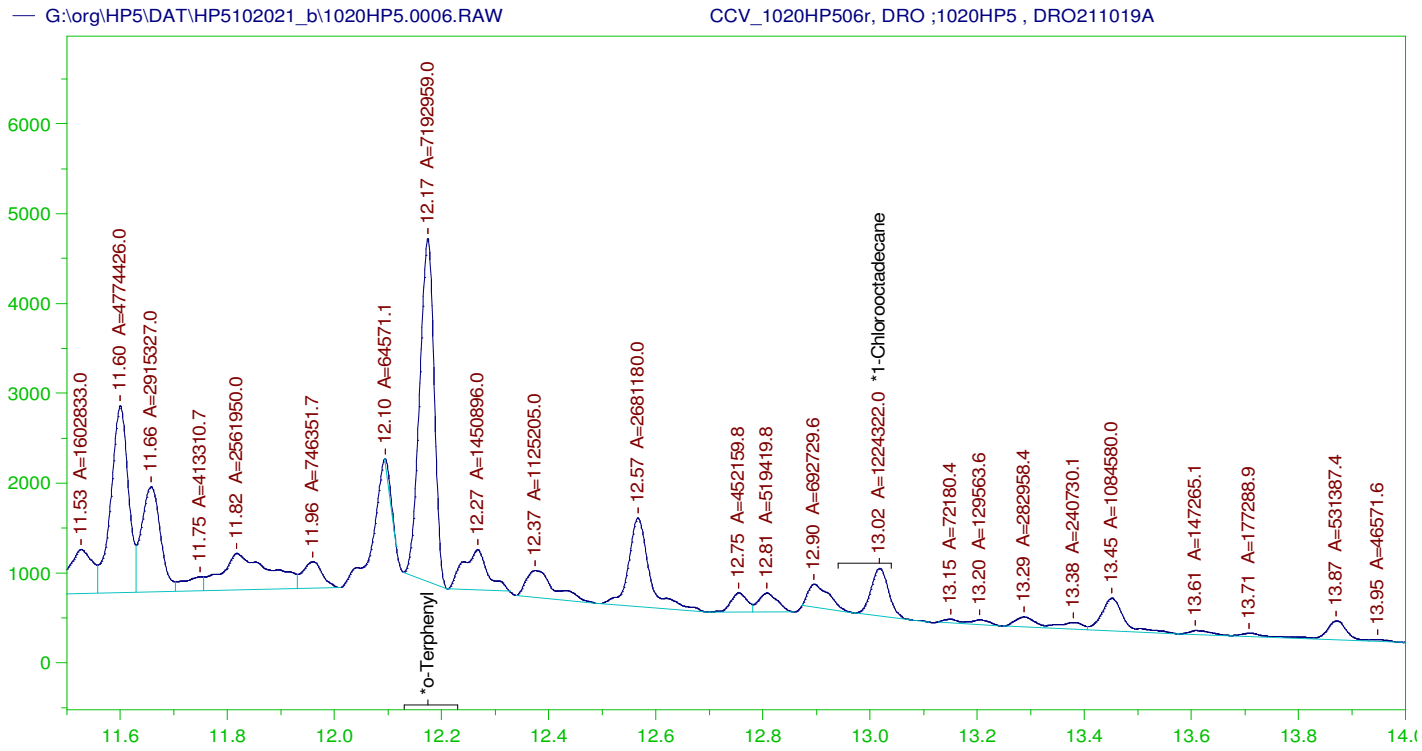


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP506r, DRO ;1020HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0006.RAW
Date & Time Acquired: 10/20/2021 5:01:36 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.174 | 200. | 205.096 | 102.55 | - |
| *1-Chlorooctadecane | 13.018 | 200. | 34.91 | 17.45 | - |

DRO Area:2.43655E+08 DRO Amount: 8271.454
TEH Area:2.536216E+08 TEH Amount: 8609.794

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8609.79 | 57.4 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.174 | 200. | 205.096 | 102.55 | 85-115 |
| *1-Chlorooctadecane | 13.018 | 200. | 34.91 | 17.45 | 85-115 |

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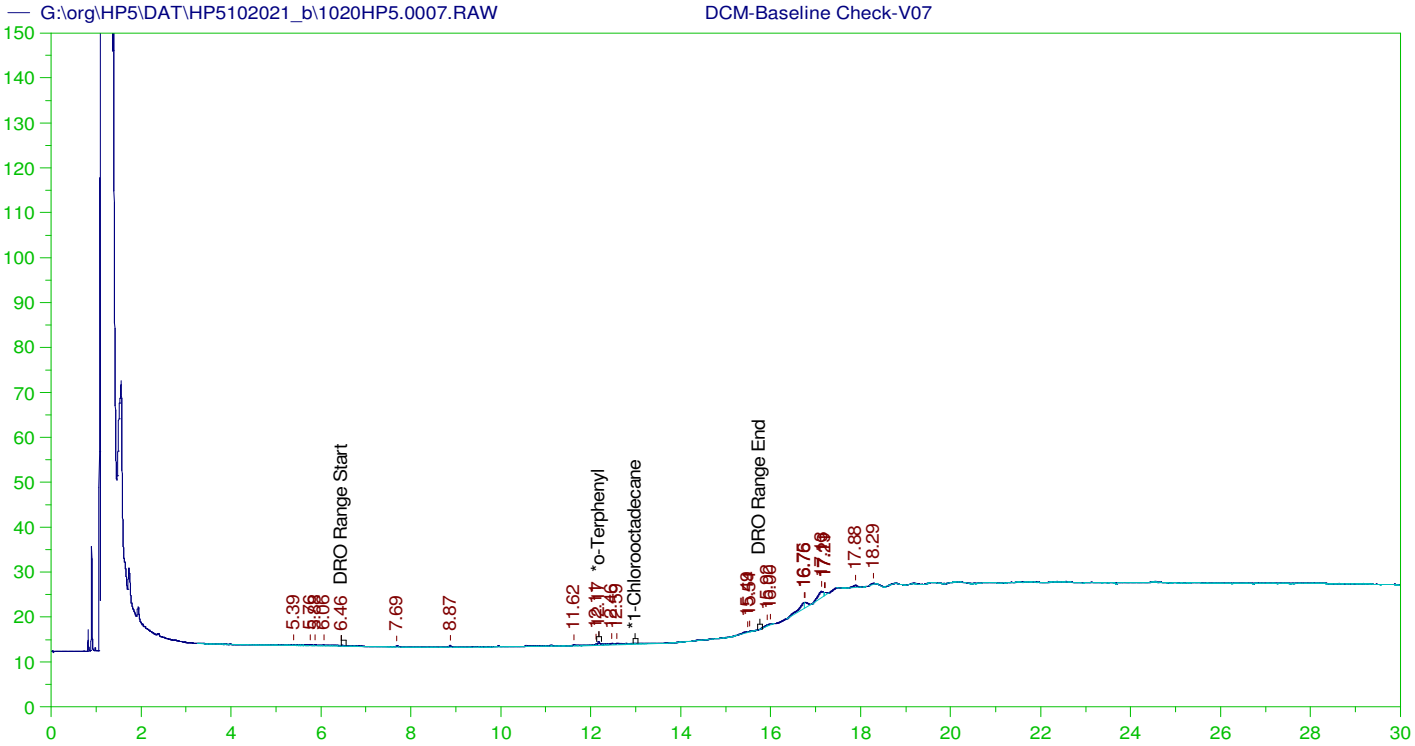


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V07
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0007.RAW
Date & Time Acquired: 10/20/2021 5:44:32 PM
Method File: G:\Org\HP5\Methods\DR_8015-HT-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 15.81

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.173 | 200. | .084 | .04 | - |
| *1-Chlorooctadecane | 29.992 | 200. | . | . | - |

DRO Area:35042.3 DRO Amount: 1.189595
TEH Area:105987.6 TEH Amount: 3.598005

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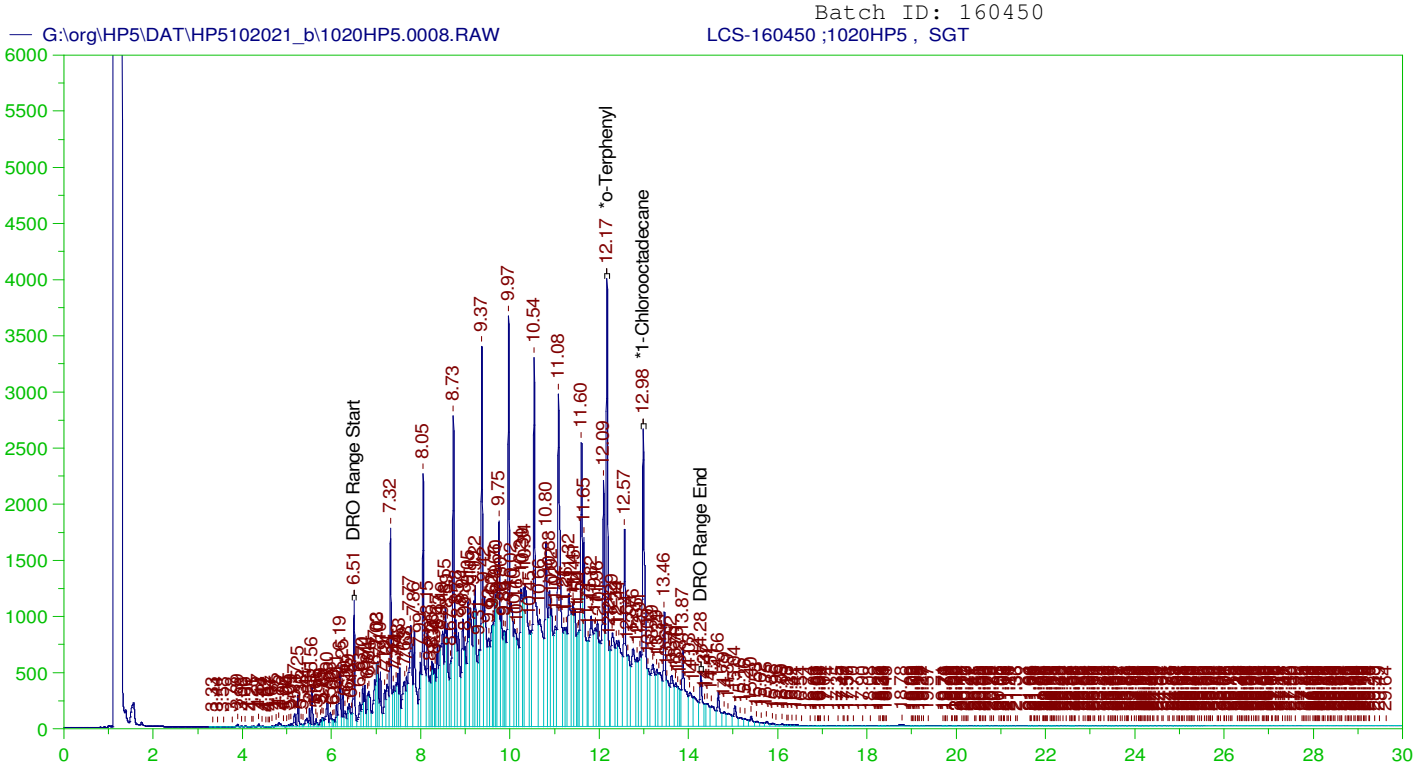
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160450 ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0008.RAW
Date & Time Acquired: 10/20/2021 6:27:34 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.172 | .2 | .299 | 149.7 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .304 | 152.1 | - |

DRO Area:3.401022E+08 DRO Amount: 11.54559
TEH Area:3.610468E+08 TEH Amount: 12.2566

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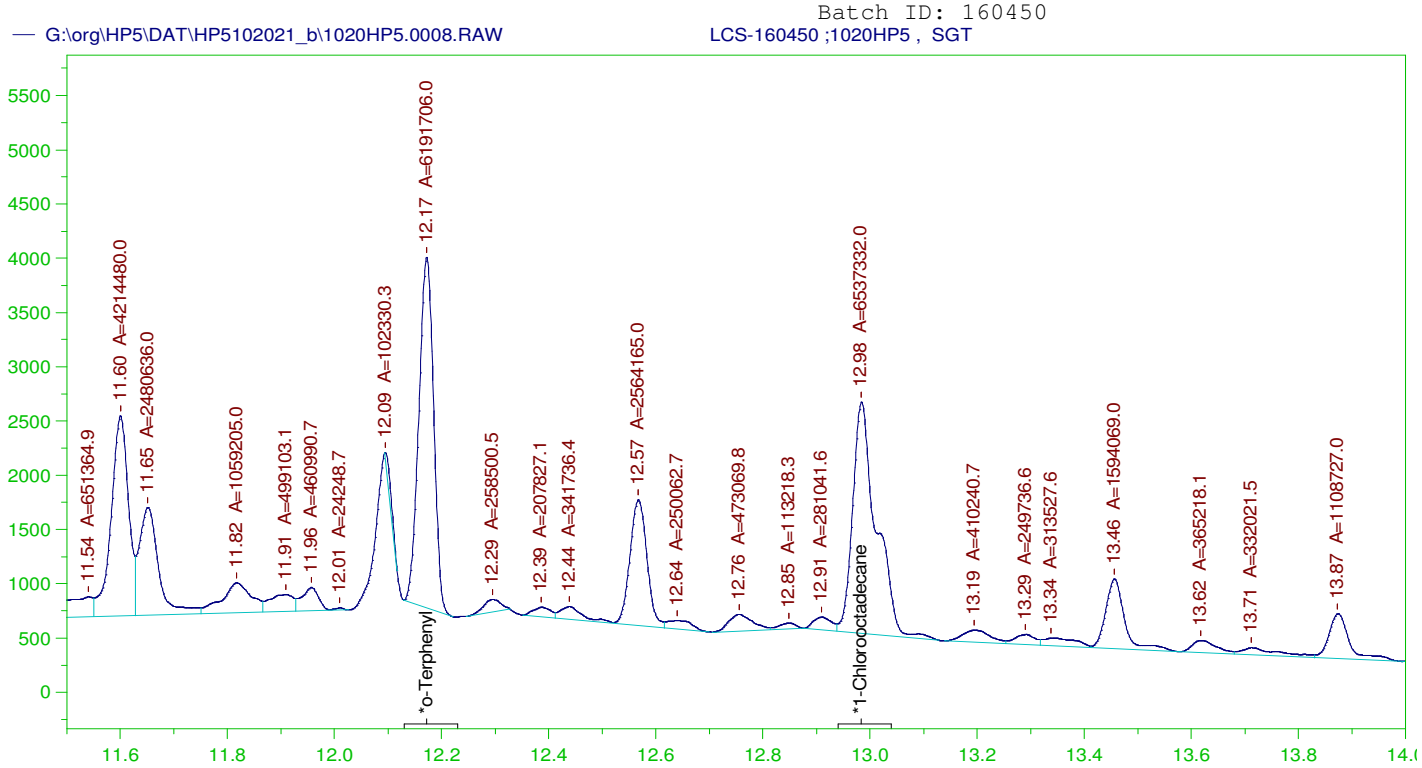
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160450 ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0008.RAW
Date & Time Acquired: 10/20/2021 6:27:34 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.172 | .2 | .177 | 88.27 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .186 | 93.2 | - |

DRO Area:1.560445E+08 DRO Amount: 5.297306
TEH Area:1.646184E+08 TEH Amount: 5.588367

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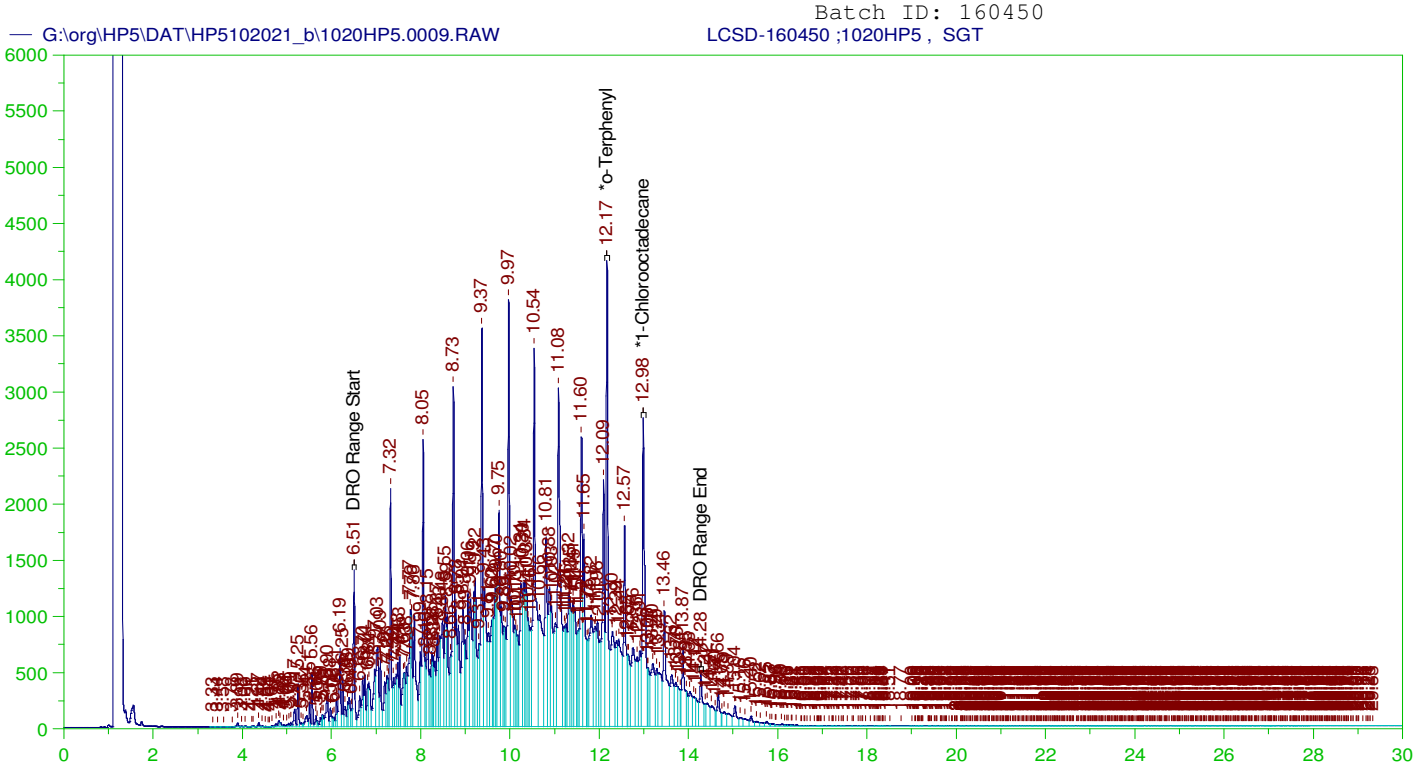
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCSD-160450 ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0009.RAW
Date & Time Acquired: 10/20/2021 7:10:24 PM
Method File: G:\Org\HP5\Methods\D3_8015-102009-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.172 | .2 | .317 | 158.36 | - |
| *1-Chlorooctadecane | 12.983 | .2 | .306 | 153.03 | - |

DRO Area:3.596743E+08 DRO Amount: 12.21001
TEH Area:3.833343E+08 TEH Amount: 13.01321

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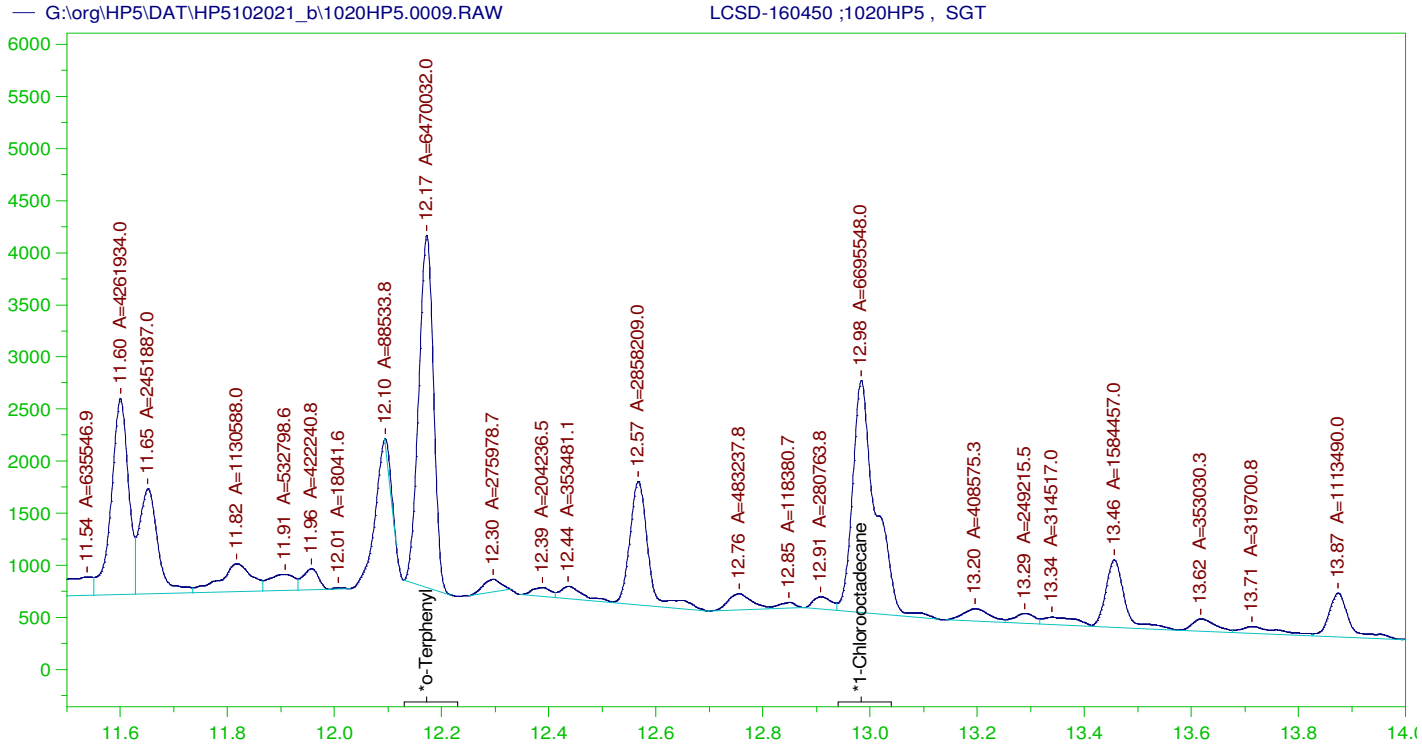
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCSD-160450 ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0009.RAW
Date & Time Acquired: 10/20/2021 7:10:24 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.172 | .2 | .184 | 92.24 | - |
| *1-Chlorooctadecane | 12.983 | .2 | .191 | 95.46 | - |

DRO Area:1.678838E+08 DRO Amount: 5.699219
TEH Area:1.788162E+08 TEH Amount: 6.070345

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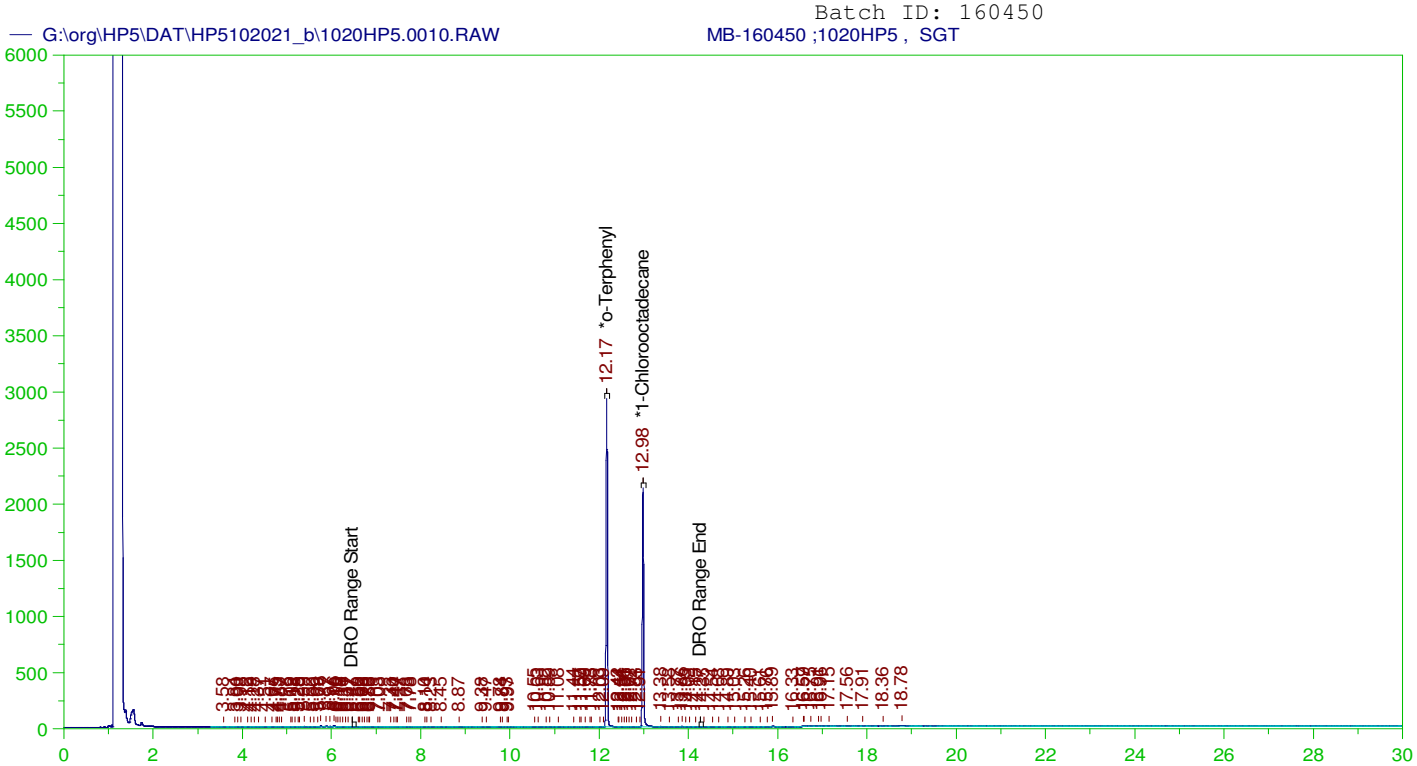
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160450 ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0010.RAW
Date & Time Acquired: 10/20/2021 7:53:19 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .2 | .164 | 81.98 | - |
| *1-Chlorooctadecane | 12.979 | .2 | .138 | 68.94 | - |

DRO Area:201301.3 DRO Amount: 6.833657E-03
TEH Area:449531.5 TEH Amount: 1.526043E-02

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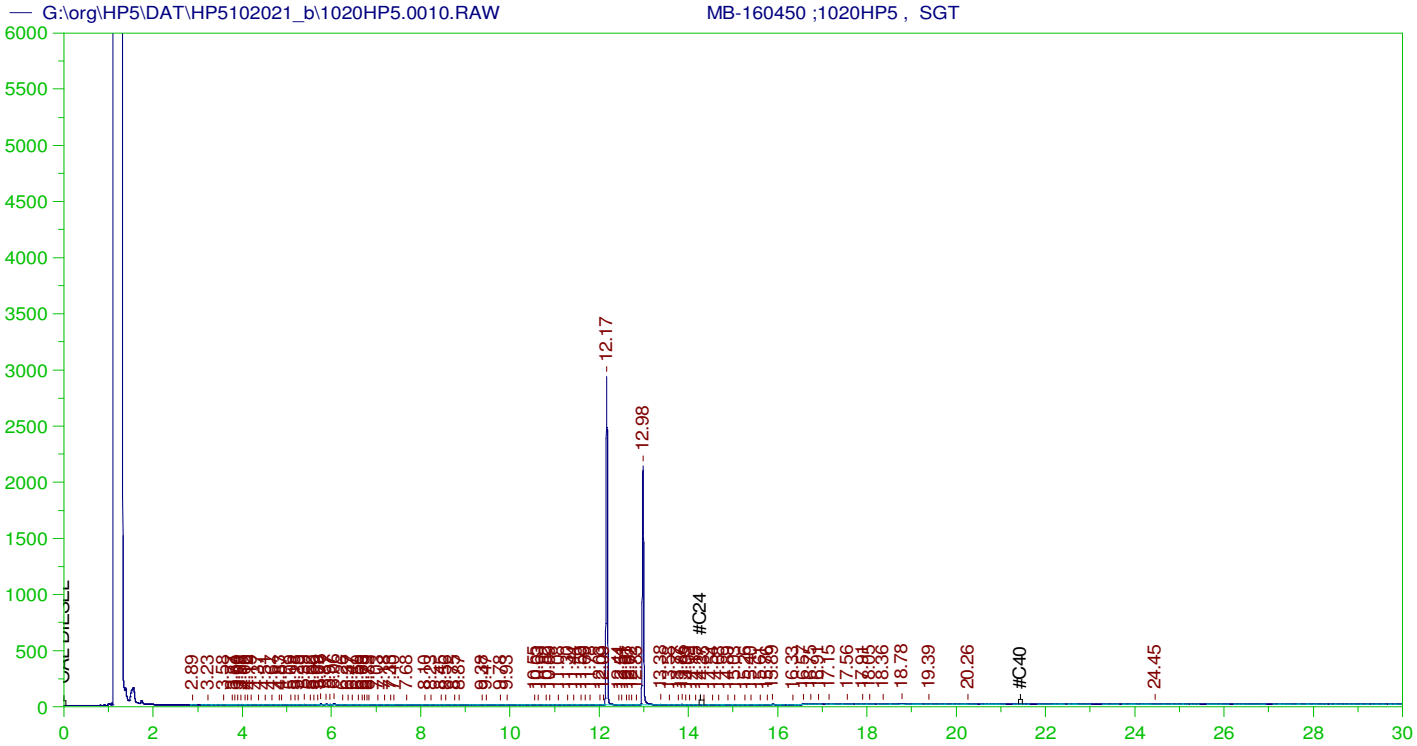


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160450 ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0010.RAW
Date & Time Acquired: 10/20/2021 7:53:19 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.24 to 21.49

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:74606.75 RRO AMOUNT: 2.613891E-03

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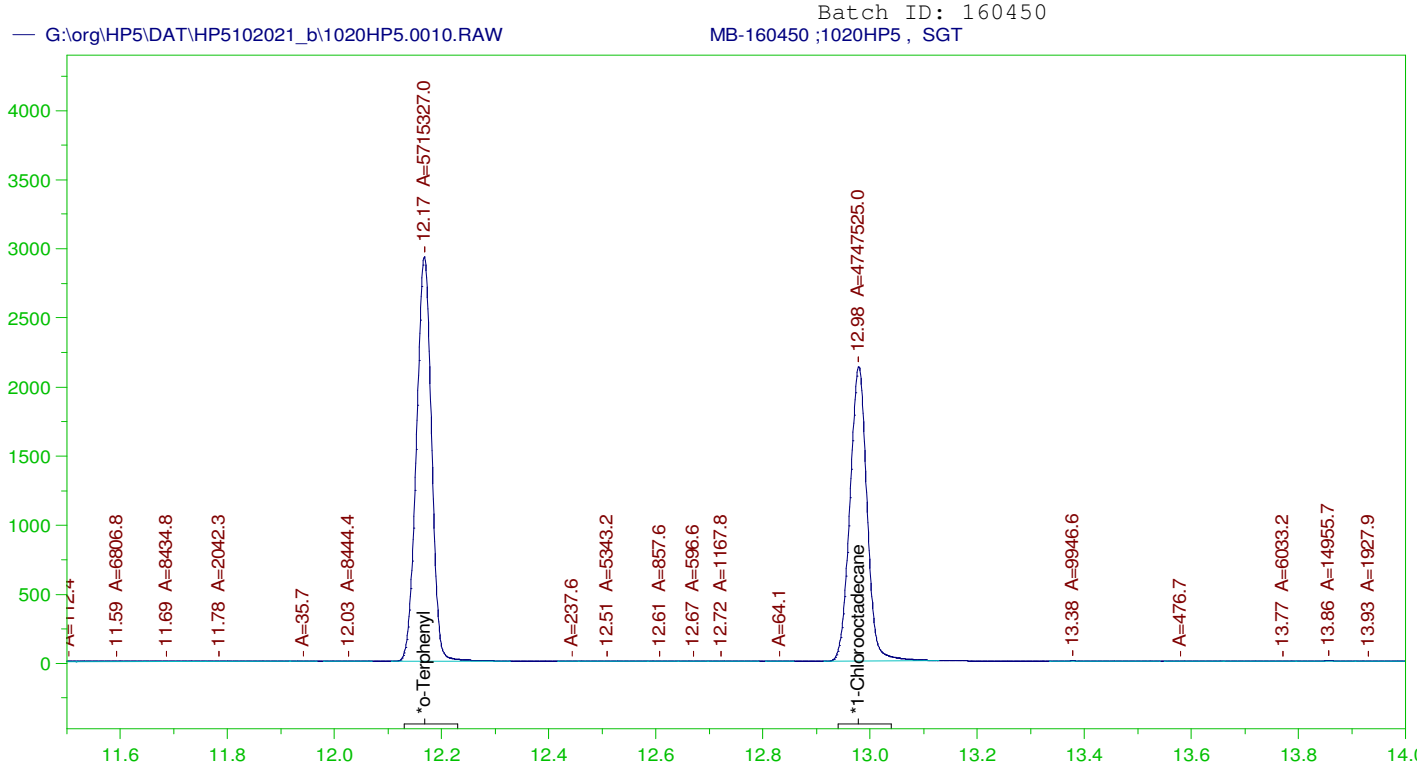
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160450 ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0010.RAW
Date & Time Acquired: 10/20/2021 7:53:19 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .2 | .163 | 81.48 | - |
| *1-Chlorooctadecane | 12.979 | .2 | .135 | 67.68 | - |

DRO Area:147170.2 DRO Amount: 4.996047E-03
TEH Area:352867.6 TEH Amount: 1.197894E-02

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**ERH1723 (RHMW14 Zone 3)** Batch ID: 160450

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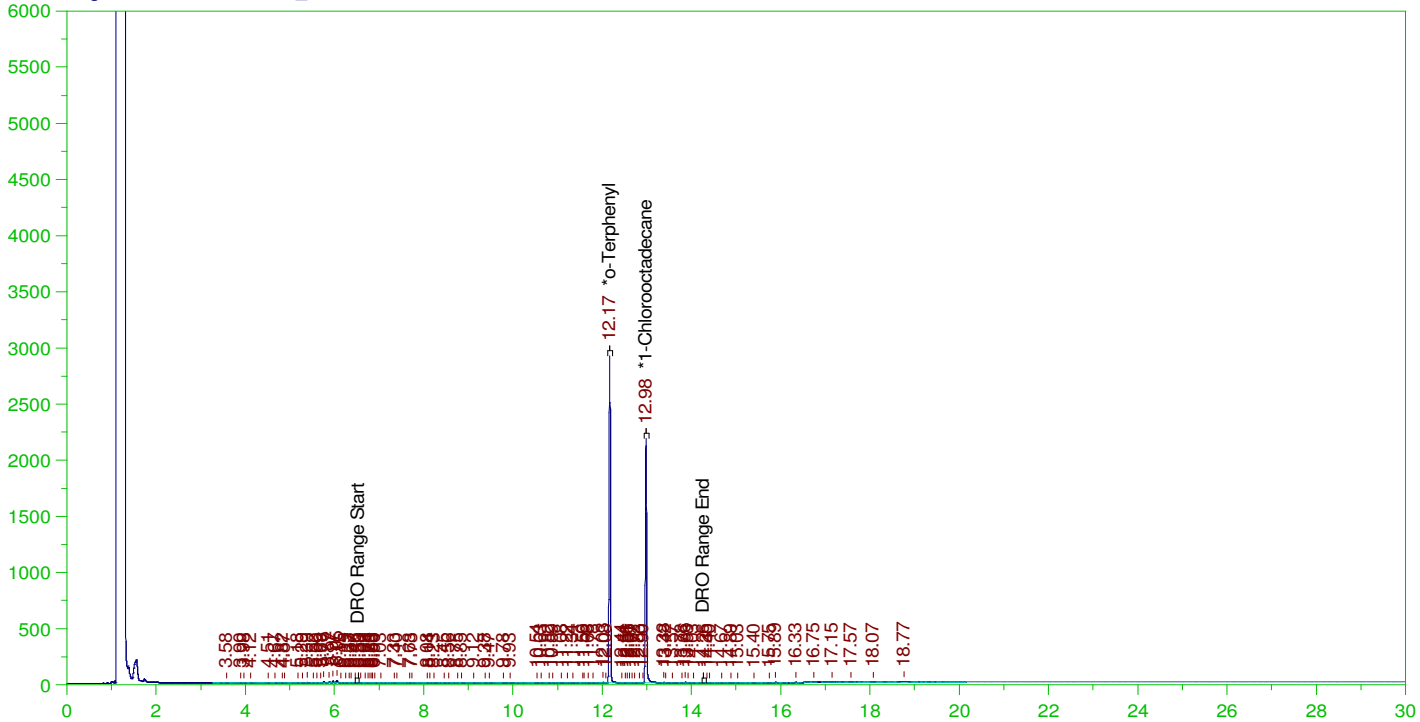


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101295-001A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0011.RAW
Date & Time Acquired: 10/20/2021 8:36:10 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.168 | .194 | .16 | 82.25 | - |
| *1-Chlorooctadecane | 12.979 | .194 | .135 | 69.5 | - |

DRO Area:200803.5 DRO Amount: 6.618211E-03
TEH Area:482346.1 TEH Amount: 1.589748E-02

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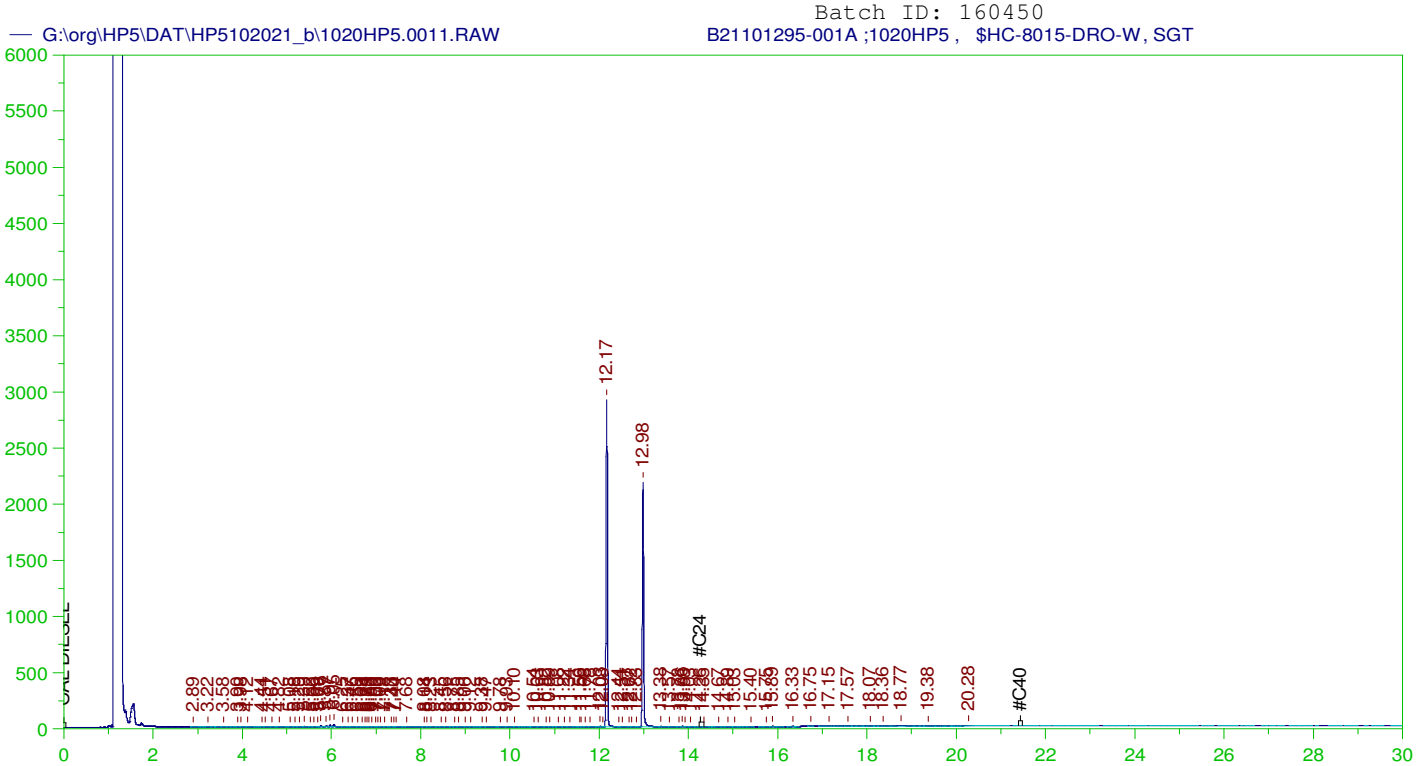
Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101295-001A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0011.RAW
Date & Time Acquired: 10/20/2021 8:36:10 PM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.24 to 21.49

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:74943.13 RRO AMOUNT: 0.0025492

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**ERH1723 (RHMW14 Zone 3)** Batch ID: 160450

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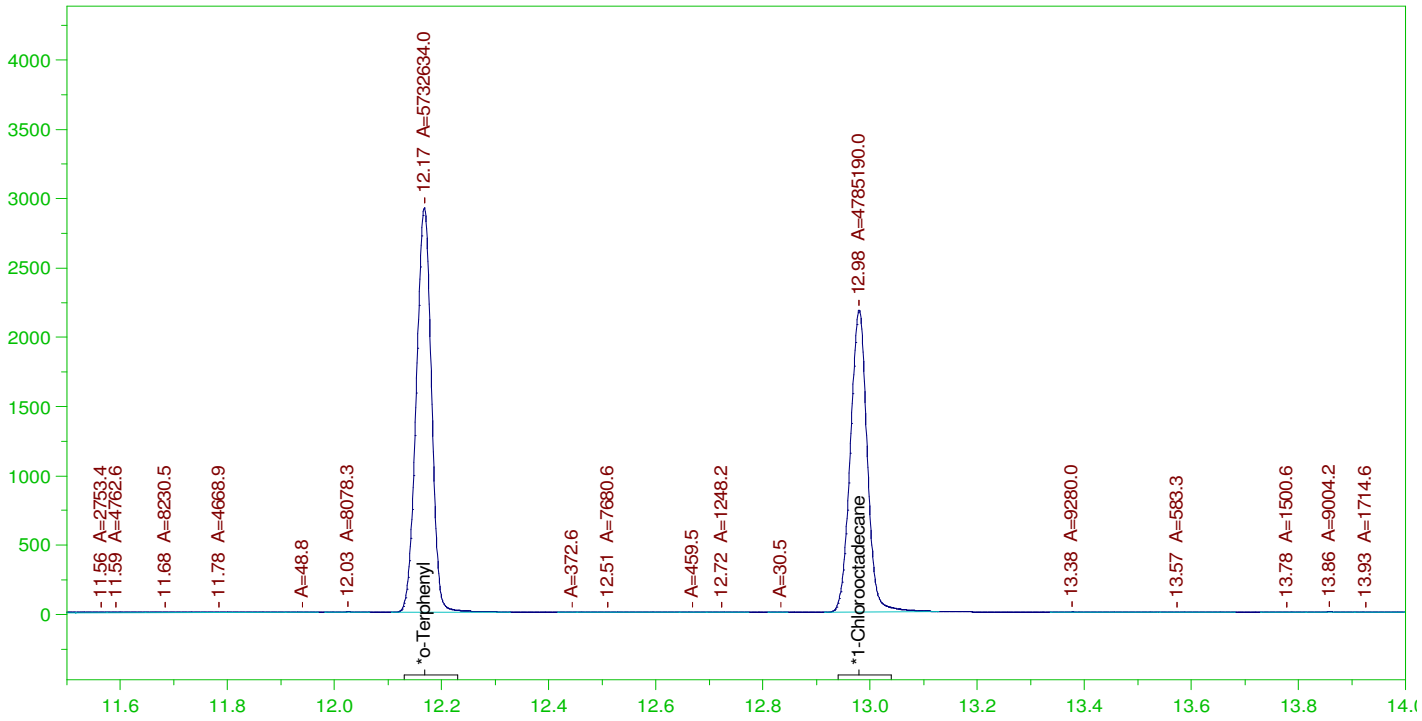


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101295-001A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0011.RAW
Date & Time Acquired: 10/20/2021 8:36:10 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.168 | .194 | .159 | 81.73 | - |
| *1-Chlorooctadecane | 12.979 | .194 | .132 | 68.22 | - |

DRO Area:147019.6 DRO Amount: 4.845568E-03
TEH Area:381852.3 TEH Amount: 1.258533E-02

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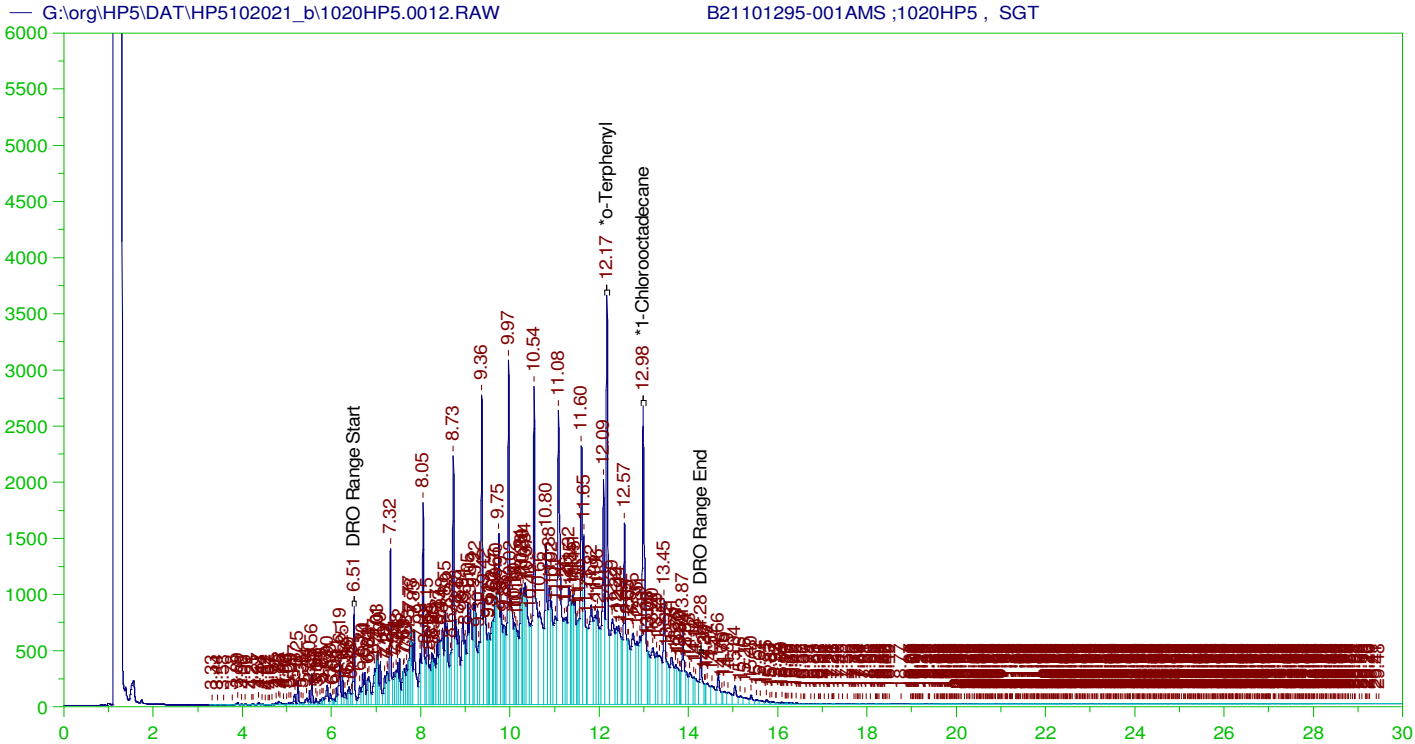
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101295-001AMS ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0012.RAW
Date & Time Acquired: 10/20/2021 9:19:08 PM
Method File: G:\Org\HP5\Methods\D3_8015-102009-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 960 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | .208 | .285 | 136.7 | - |
| *1-Chlorooctadecane | 12.982 | .208 | .3 | 143.79 | - |

DRO Area:2.901461E+08 DRO Amount: 10.26011
TEH Area:3.077332E+08 TEH Amount: 10.88203

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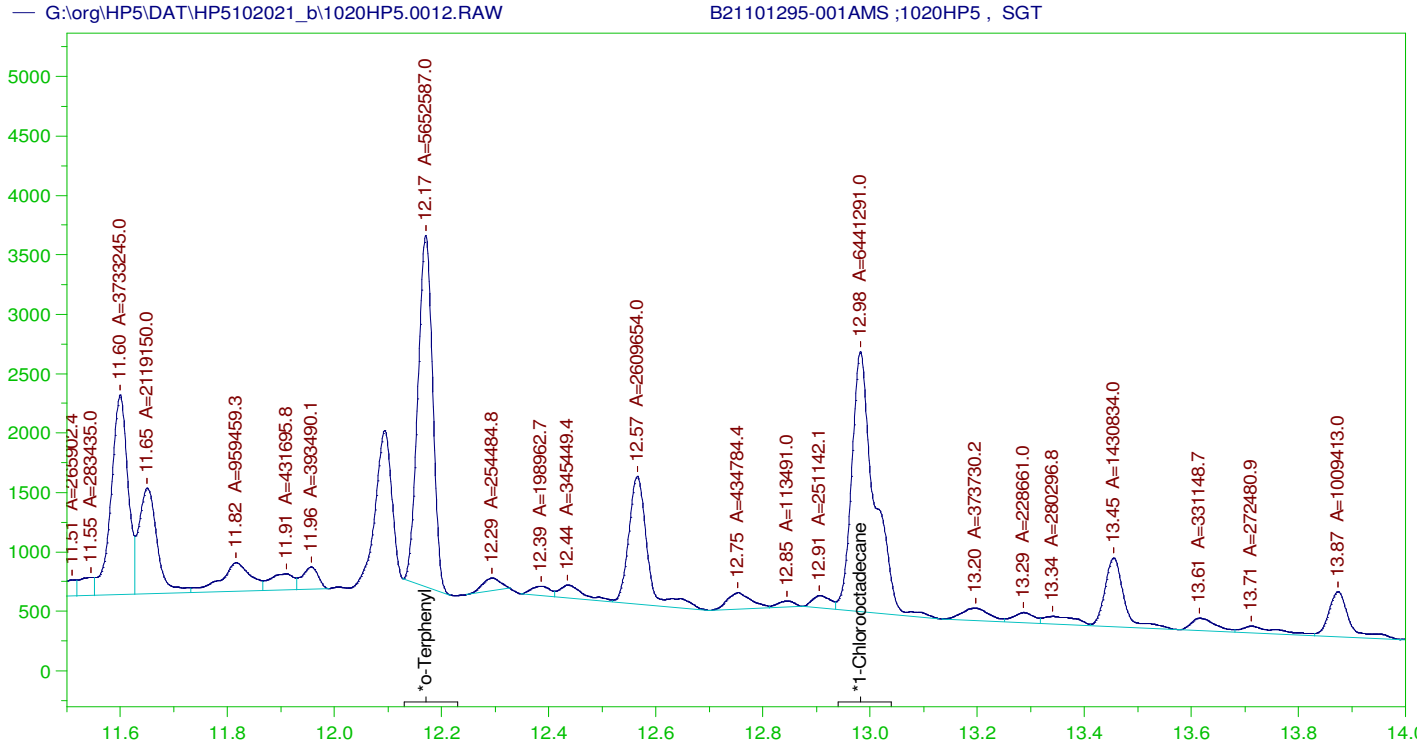
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

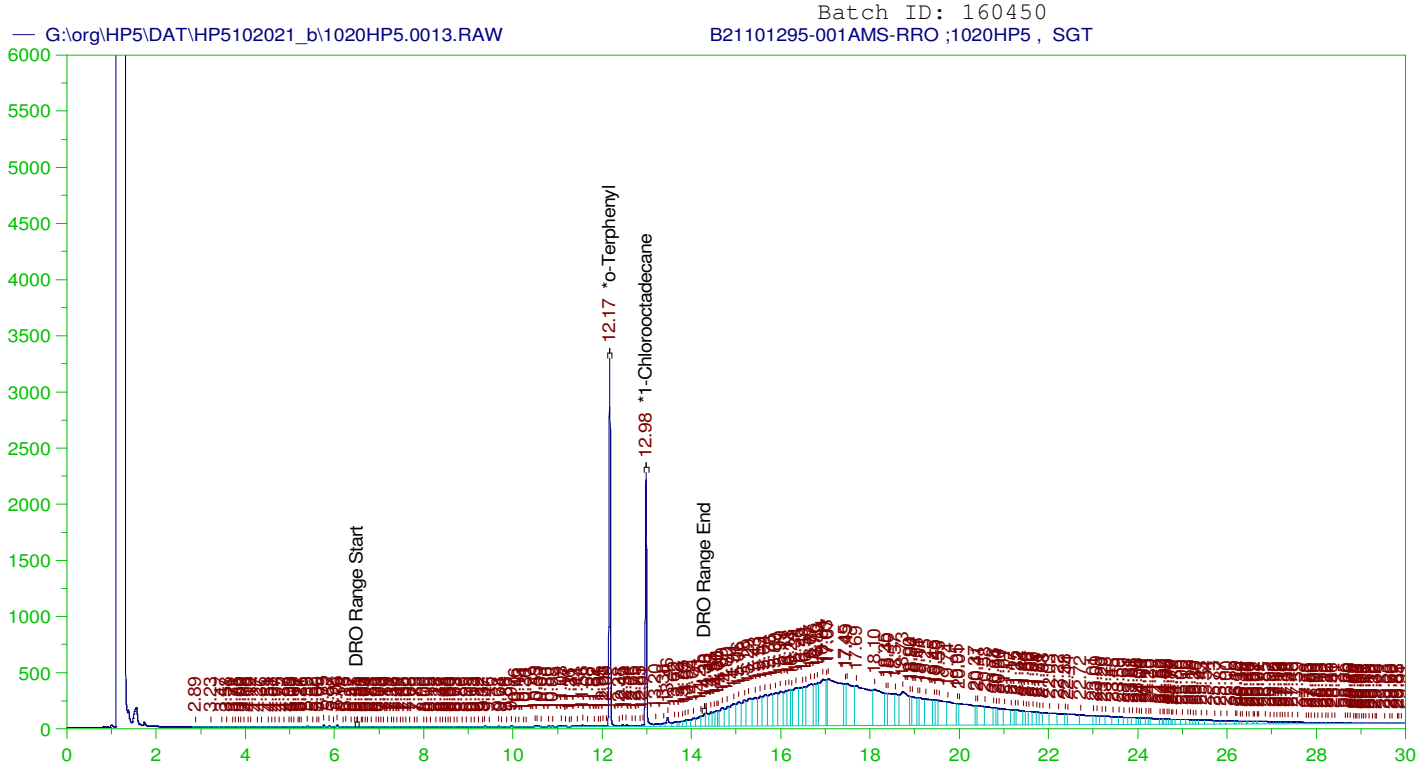
Sample Name: B21101295-001AMS ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0012.RAW
Date & Time Acquired: 10/20/2021 9:19:08 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 960 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | .208 | .168 | 80.59 | - |
| *1-Chlorooctadecane | 12.982 | .208 | .191 | 91.83 | - |

DRO Area:1.260979E+08 DRO Amount: 4.459058
TEH Area:1.329416E+08 TEH Amount: 4.701066

Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101295-001AMS-RRO ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0013.RAW
Date & Time Acquired: 10/20/2021 10:02:04 PM
Method File: G:\Org\HP5\Methods\D3_OIL-AK-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .196 | .18 | 91.55 | - |
| *1-Chlorooctadecane | 12.979 | .196 | .143 | 72.99 | - |

DRO Area:4060501 DRO Amount: 0.1394726
TEH (Oil Range) Area:1.339253E+08 TEH (Oil Range) Amount: 4.600149

AMN 10/25/2021

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Batch ID: 160450

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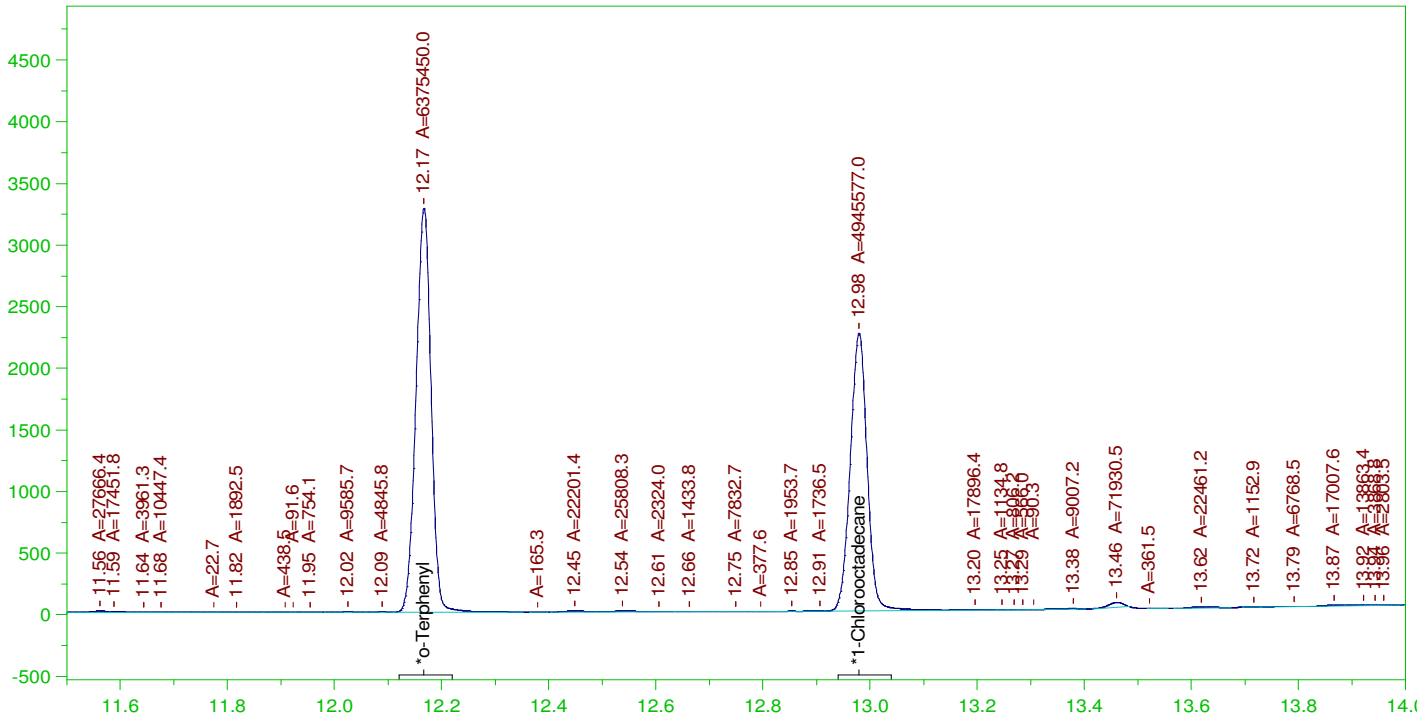


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101295-001AMS-RRO ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0013.RAW
Date & Time Acquired: 10/20/2021 10:02:04 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .196 | .178 | 90.89 | - |
| *1-Chlorooctadecane | 12.979 | .196 | .138 | 70.51 | - |

DRO Area:708628.2 DRO Amount: 2.434039E-02
TEH Area:2502869 TEH Amount: 8.597006E-02

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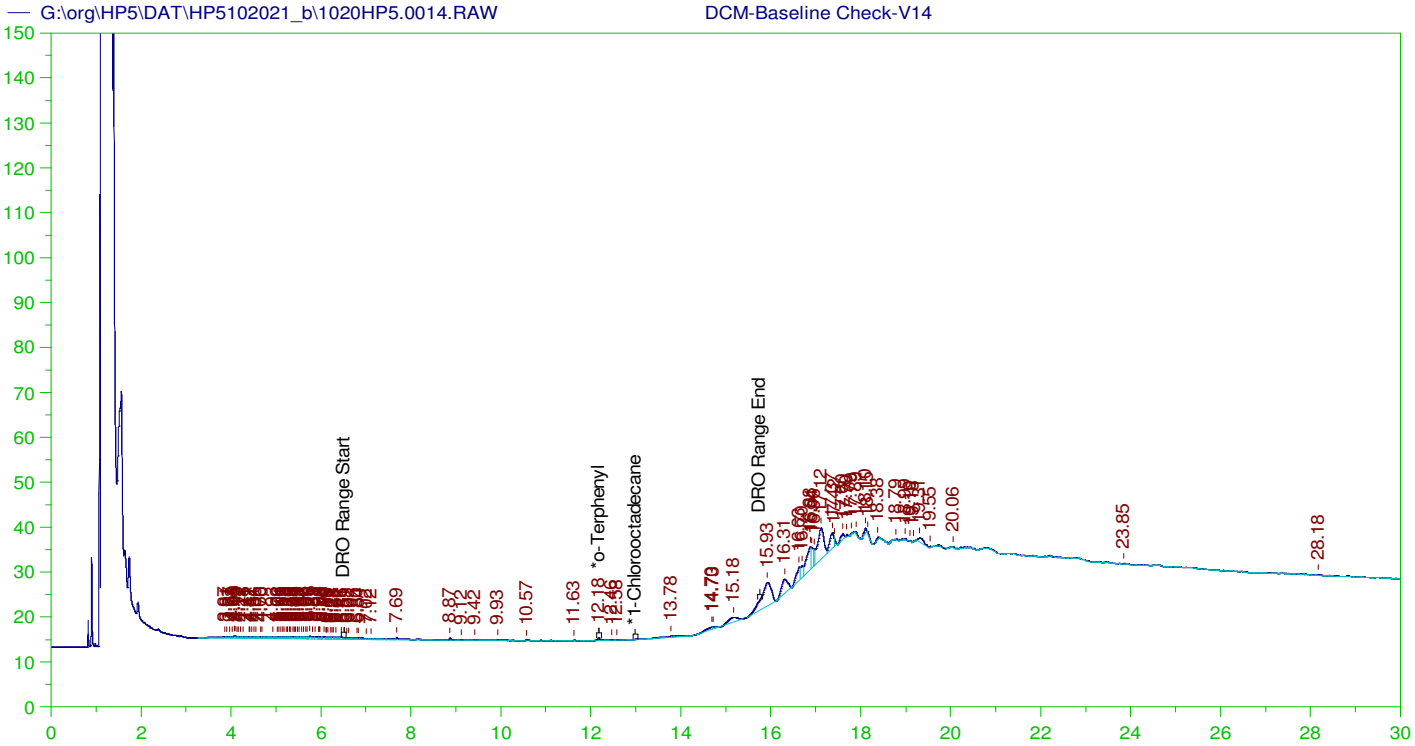


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0014.RAW
Date & Time Acquired: 10/20/2021 10:45:00 PM
Method File: G:\Org\HP5\Methods\DR_8015-HT-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 15.81

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.175 | 200. | .08 | .04 | - |
| *1-Chlorooctadecane | 29.965 | 200. | . | . | - |

DRO Area:66969.25 DRO Amount: 2.273432
TEH Area:488948.6 TEH Amount: 16.59854

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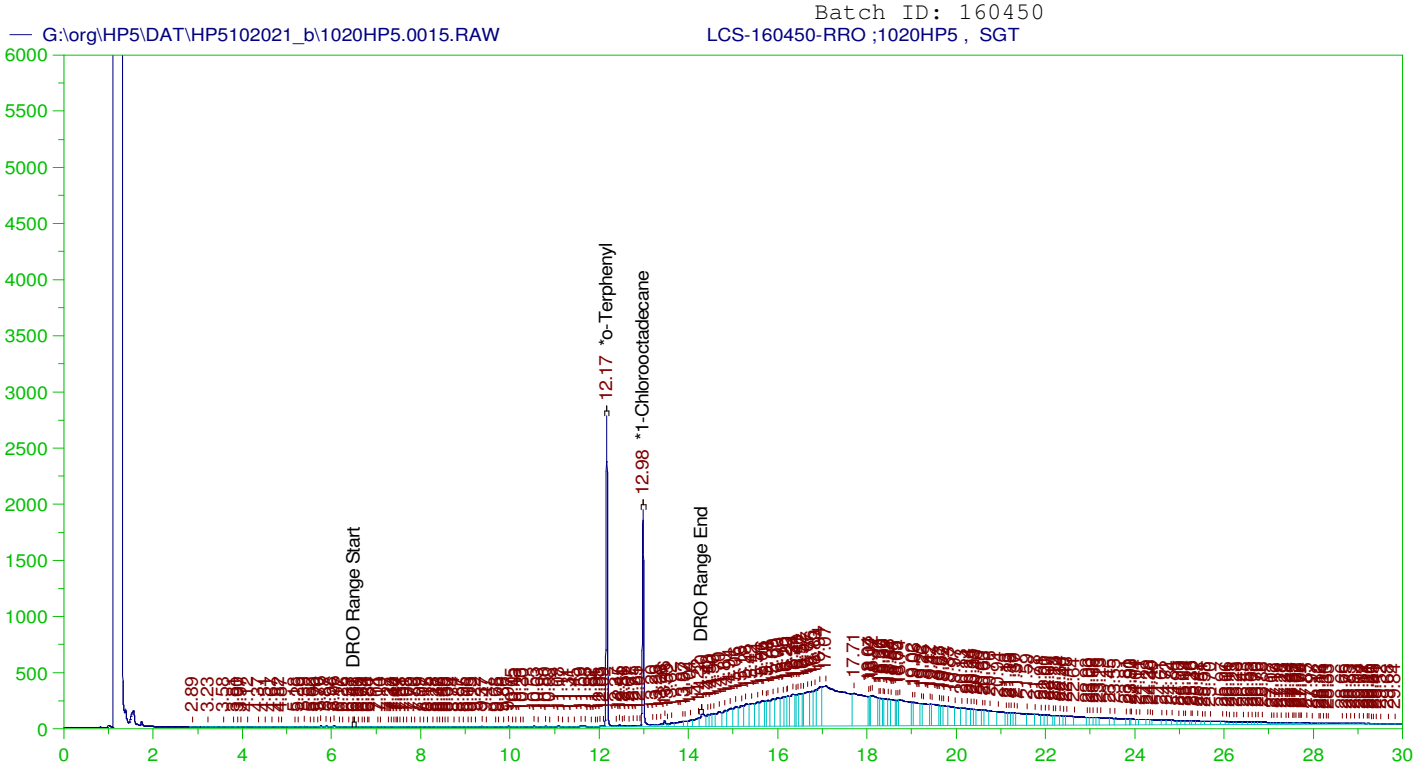
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160450-RRO ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0015.RAW
Date & Time Acquired: 10/20/2021 11:28:03 PM
Method File: G:\Org\HP5\Methods\D3_OIL-AK-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .2 | .154 | 77.09 | - |
| *1-Chlorooctadecane | 12.98 | .2 | .125 | 62.62 | - |

DRO Area:3751617 DRO Amount: 0.1314401
TEH (Oil Range) Area:1.109961E+08 TEH (Oil Range) Amount: 3.888814

AMN 10/25/2021

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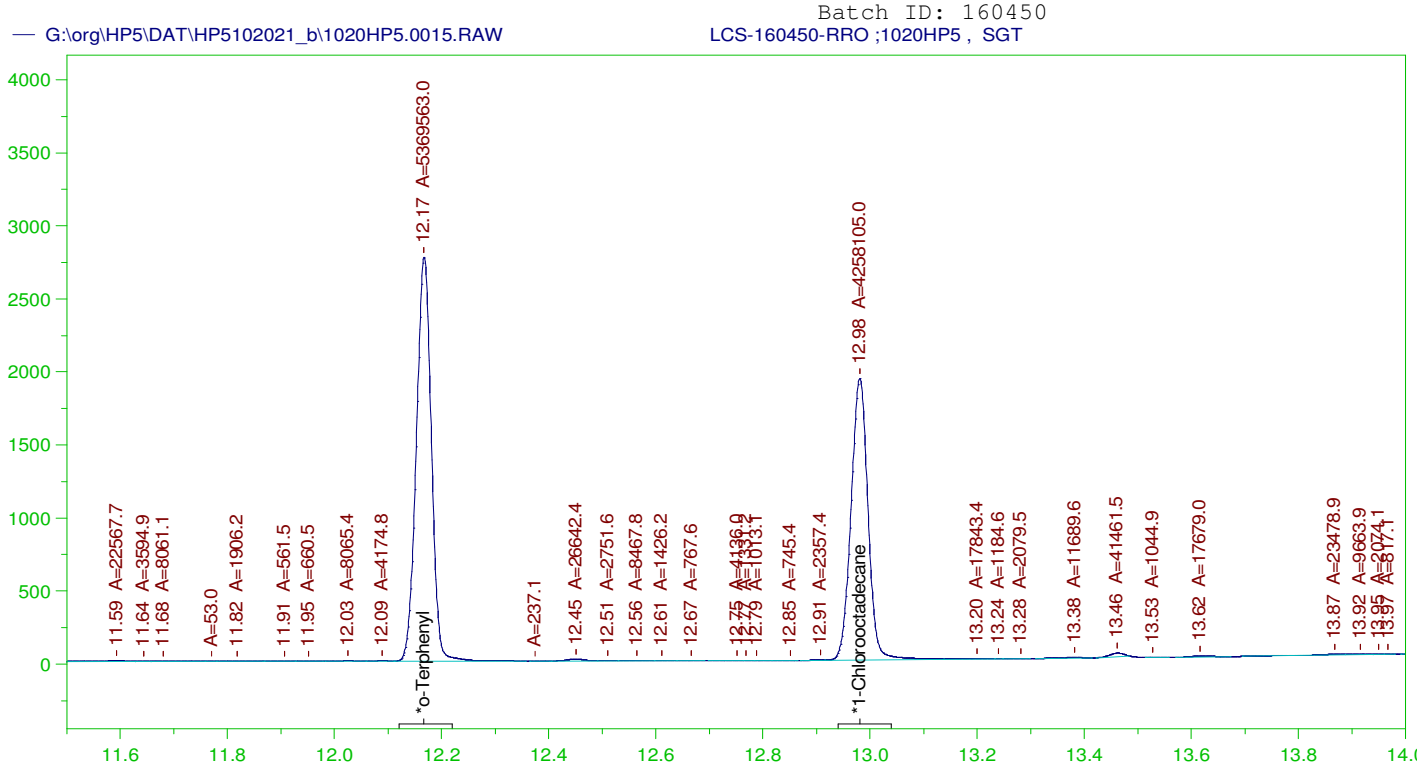
Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160450-RRO ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0015.RAW
Date & Time Acquired: 10/20/2021 11:28:03 PM
Method File: G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .2 | .153 | 76.55 | - |
| *1-Chlorooctadecane | 12.98 | .2 | .121 | 60.71 | - |

DRO Area:582713.3 DRO Amount: 0.0204157
TEH Area:1945039 TEH Amount: 6.814557E-02

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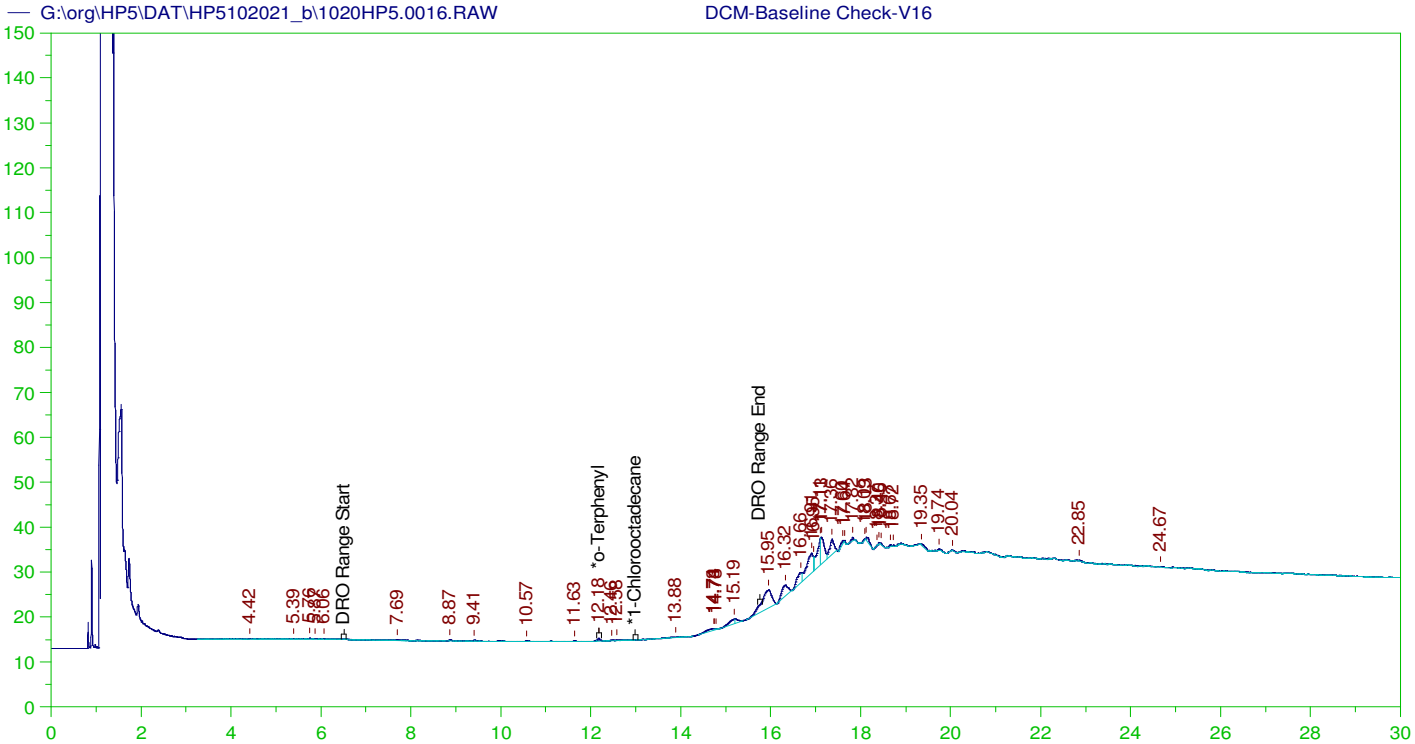



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V16
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0016.RAW
Date & Time Acquired: 10/21/2021 12:11:01 AM
Method File: G:\Org\HP5\Methods\DR_8015-HT-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

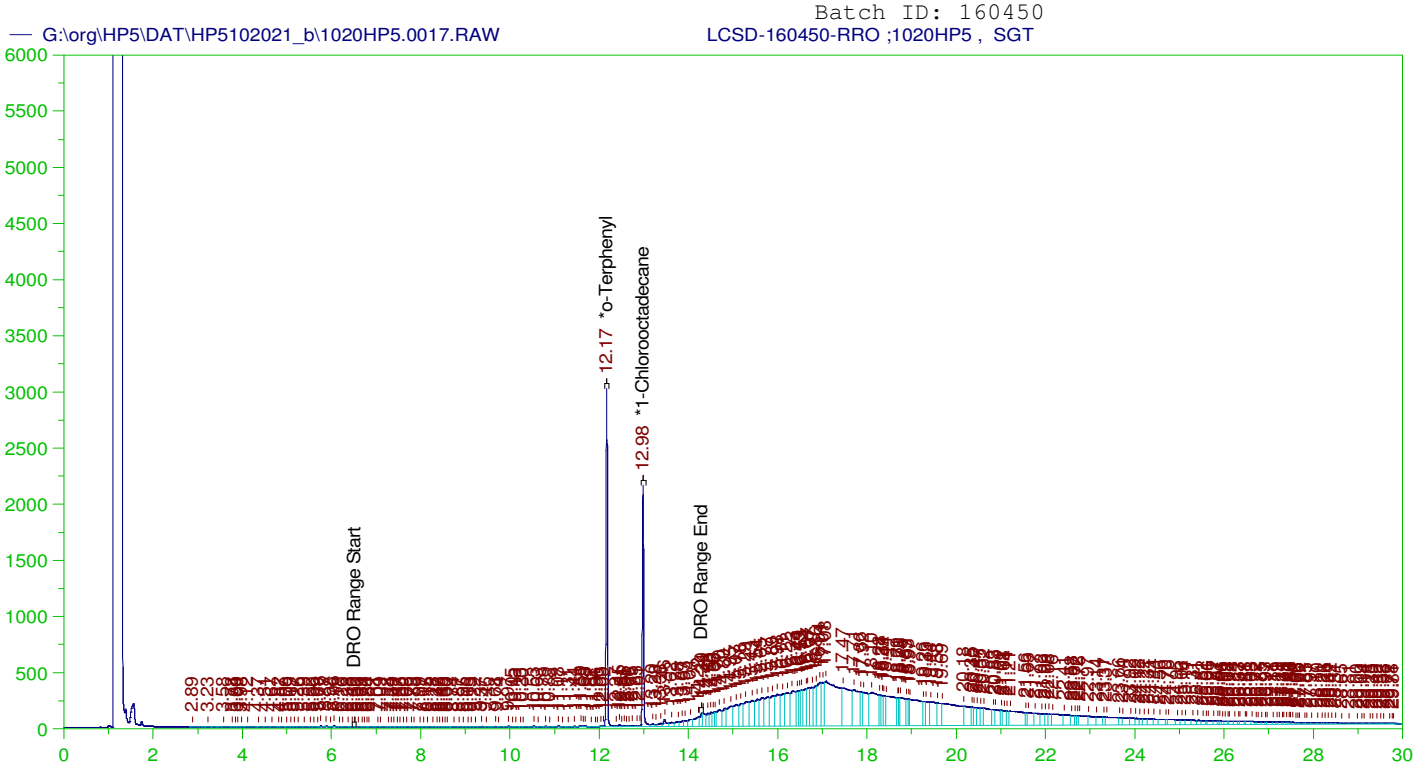
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 15.81

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .069 | .03 | - |
| *1-Chlorooctadecane | 29.99 | 200. | . | . | - |

DRO Area:38657.27 DRO Amount: 1.312314
TEH Area:356562.9 TEH Amount: 12.10438

G:\org\HP5\dat\HP5102021_b\Review\016_DCM-Baseline Chec_DR_8015-HT-LEXP.xls

Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCSD-160450-RRO ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0017.RAW
Date & Time Acquired: 10/21/2021 12:54:03 AM
Method File: G:\Org\HP5\Methods\D3_OIL-AK-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

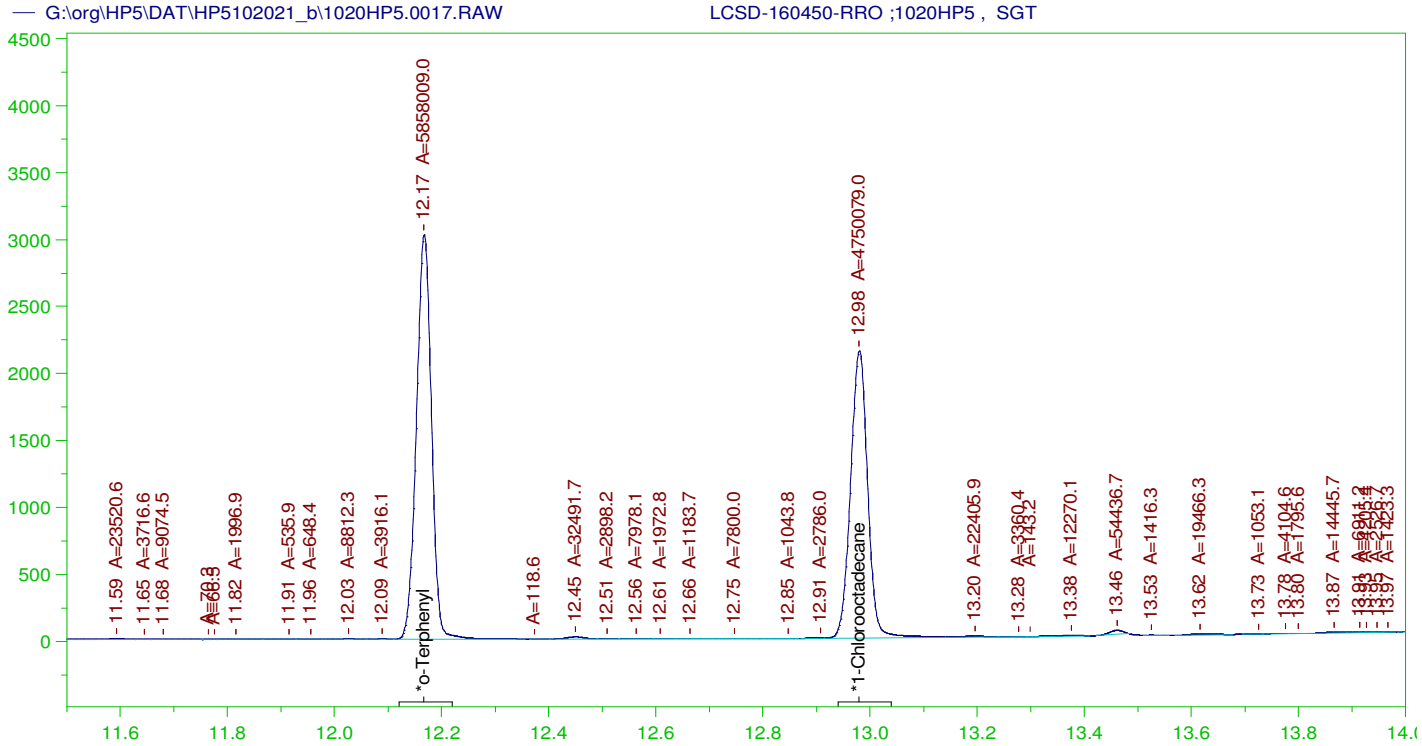
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .2 | .168 | 84.15 | - |
| *1-Chlorooctadecane | 12.98 | .2 | .14 | 70.01 | - |

DRO Area:3747802 DRO Amount: 0.1313064
TEH (Oil Range) Area:1.228698E+08 TEH (Oil Range) Amount: 4.304814

AMN 10/25/2021

G:\org\HP5\dat\HP5102021_b\Review\017_LCSD-160450-RRO_D3_OIL-AK-L%.xls

Batch ID: 160450




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

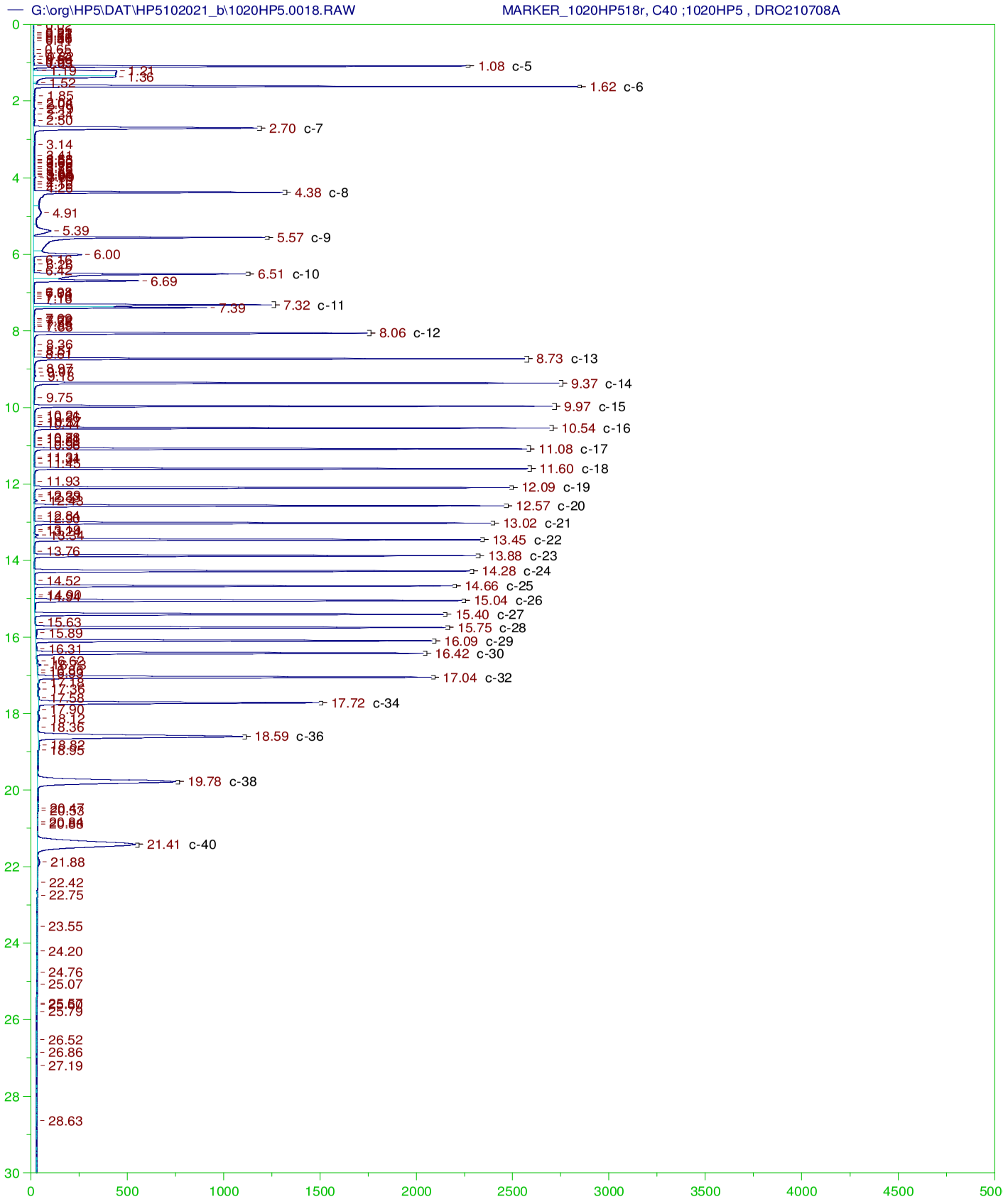
Sample Name: LCSD-160450-RRO ;1020HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0017.RAW
Date & Time Acquired: 10/21/2021 12:54:03 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

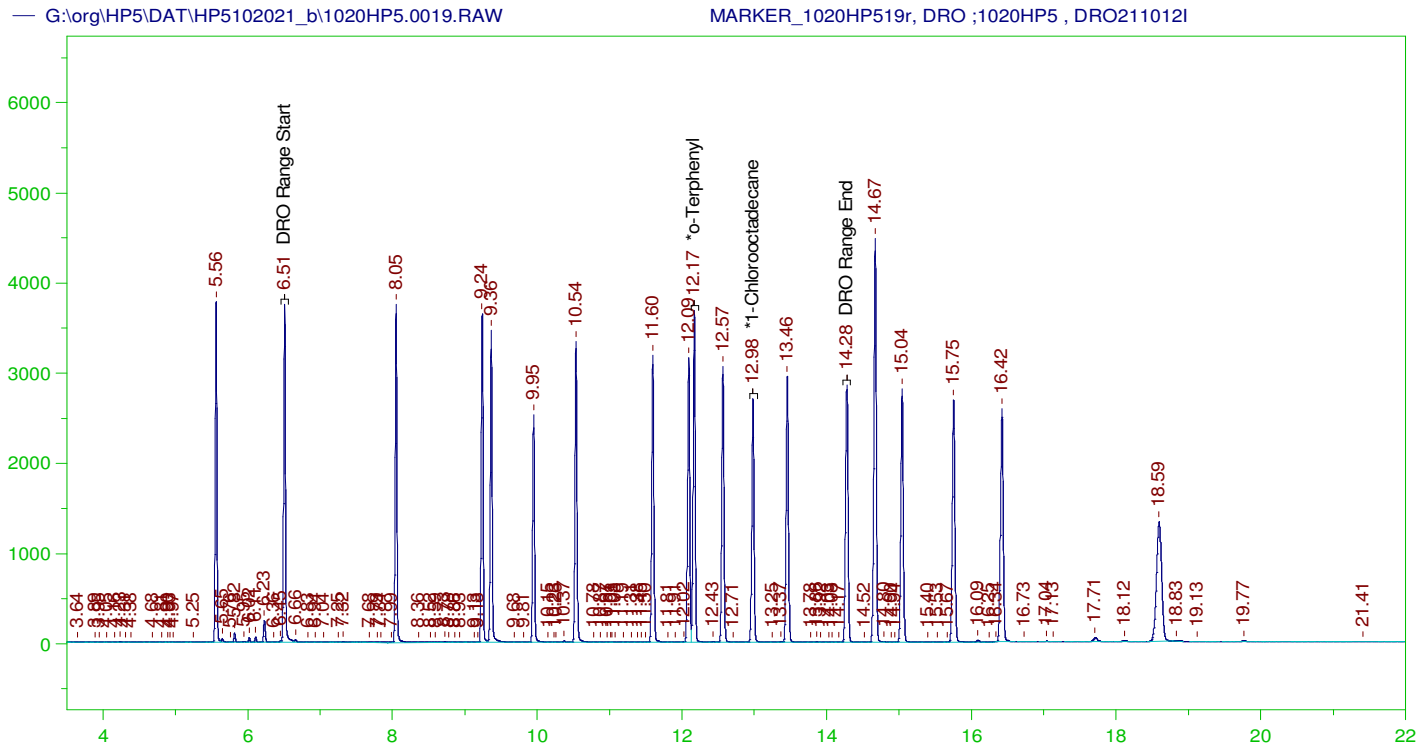
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .2 | .167 | 83.52 | - |
| *1-Chlorooctadecane | 12.98 | .2 | .135 | 67.72 | - |

DRO Area:628209.6 DRO Amount: 2.200969E-02
TEH Area:2116124 TEH Amount: 7.413964E-02

G:\org\HP5\dat\HP5102021_b\Review\017_LCSD-160450-RRO_DS_OIL-AREA-AK-L#.xls




G:\org\HP5\dat\HP5102021_b\Review\018_MARKER_1020HP518r_CSC211020.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

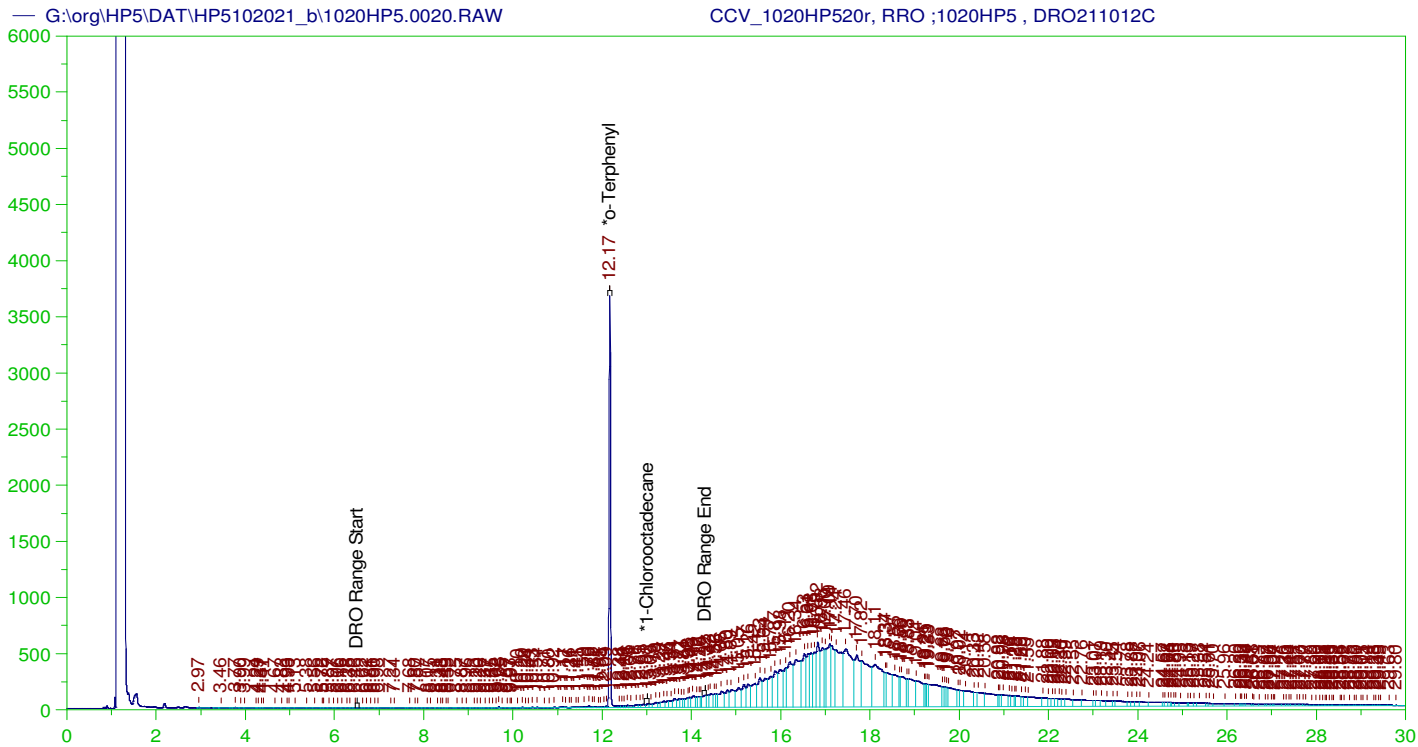
Sample Name: MARKER_1020HP519r, DRO ;1020HP5 , DRO211012I
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0019.RAW
Date & Time Acquired: 10/21/2021 2:19:56 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.169 | .2 | .206 | 102.88 | - |
| *1-Chlorooctadecane | 12.98 | .2 | .167 | 83.29 | - |

DRO Area:6.980952E+07 DRO Amount: 2.369852
TEH Area:1.151891E+08 TEH Amount: 3.910371

G:\org\HP5\dat\HP5102021_b\Review\019_MARKER_1020HP519r_DC_8015-C24-HT-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP520r, RRO ;1020HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0020.RAW
Date & Time Acquired: 10/21/2021 3:02:48 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AK-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.168 | 200. | 208.051 | 104.03 | - |
| *1-Chlorooctadecane | 13.017 | 200. | 4.417 | 2.21 | - |

DRO Area:6562415 DRO Amount: 229.918
TEH (Oil Range) Area:1.322398E+08 TEH (Oil Range) Amount: 4633.1

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4633.1 | 92.66 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.168 | 200. | 208.051 | 104.03 | 85-115 |
| *1-Chlorooctadecane | 13.017 | 200. | 4.417 | 2.21 | 85-115 |

AMN 10/25/2021

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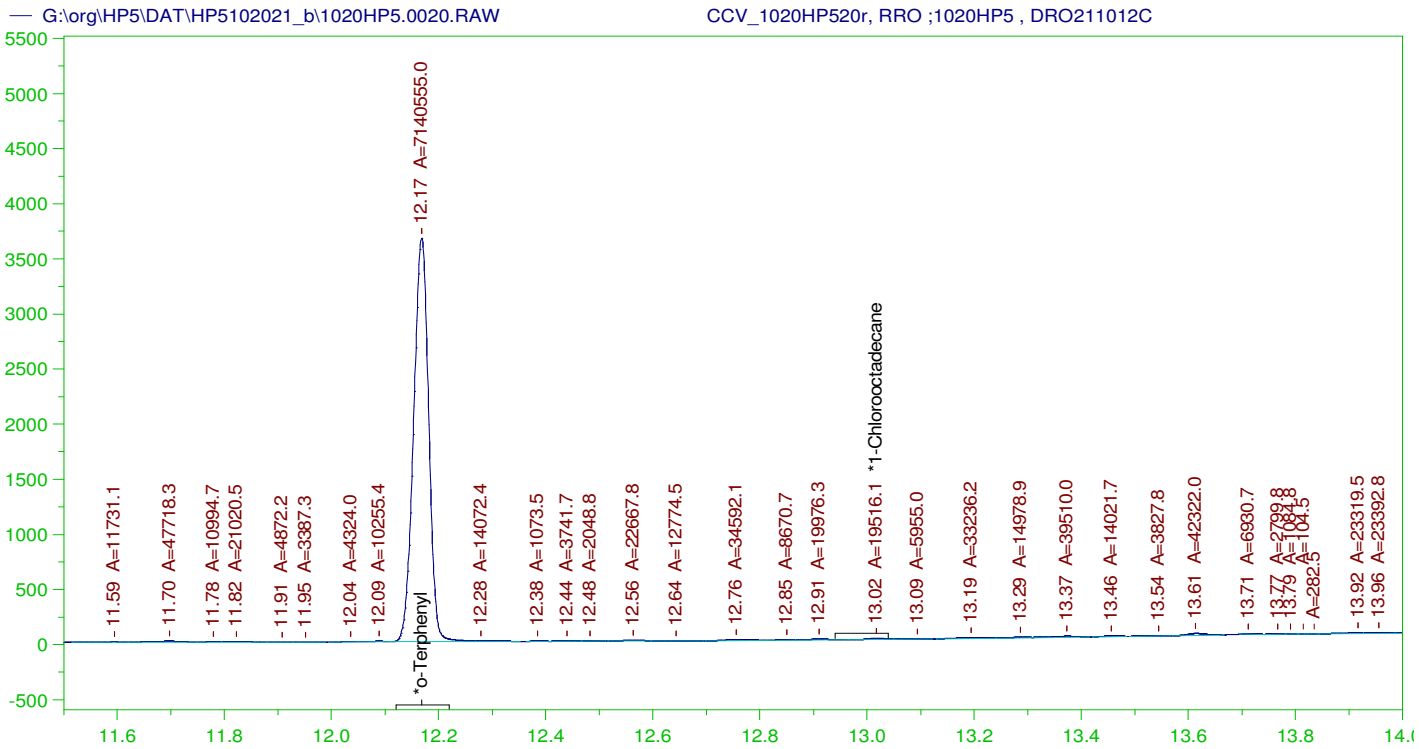


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP520r, RRO ;1020HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0020.RAW
Date & Time Acquired: 10/21/2021 3:02:48 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.168 | 200. | 203.601 | 101.8 | - |
| *1-Chlorooctadecane | 13.017 | 200. | .556 | .28 | - |

DRO Area:782163.2 DRO Amount: 27.40354
TEH Area:2028258 TEH Amount: 71.0612

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0020.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 71.06 | 1.42 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.168 | 200. | 203.601 | 101.8 | 85-115 |
| *1-Chlorooctadecane | 13.017 | 200. | .556 | .28 | 85-115 |

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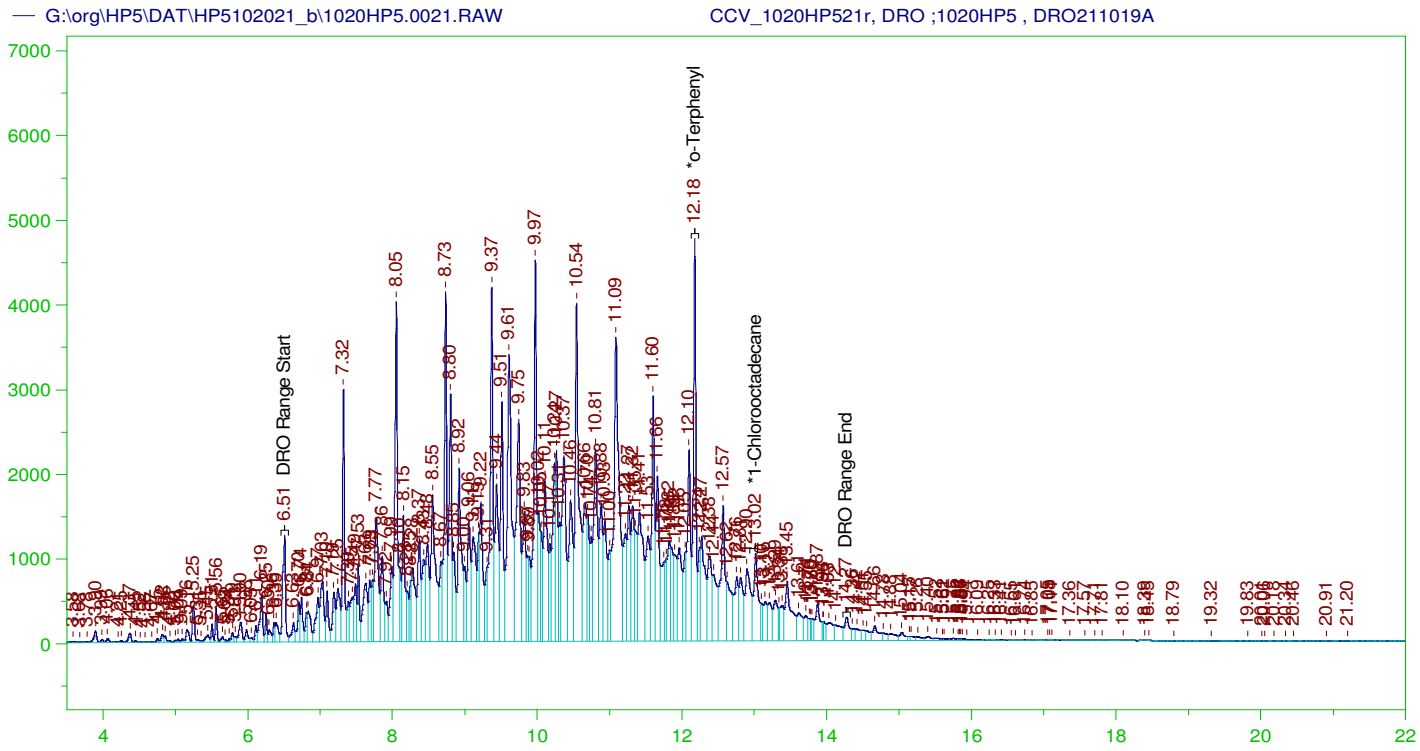


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP521r, DRO ;1020HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0021.RAW
Date & Time Acquired: 10/21/2021 3:45:40 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | 333.748 | 166.87 | - |
| *1-Chlorooctadecane | 13.02 | 200. | 132.9 | 66.45 | - |

DRO Area:4.463985E+08 DRO Amount: 15154.07
TEH Area:4.625457E+08 TEH Amount: 15702.23

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0021.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15702.23 | 104.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | 333.748 | 166.87 | 85-115 |
| *1-Chlorooctadecane | 13.02 | 200. | 132.9 | 66.45 | 85-115 |

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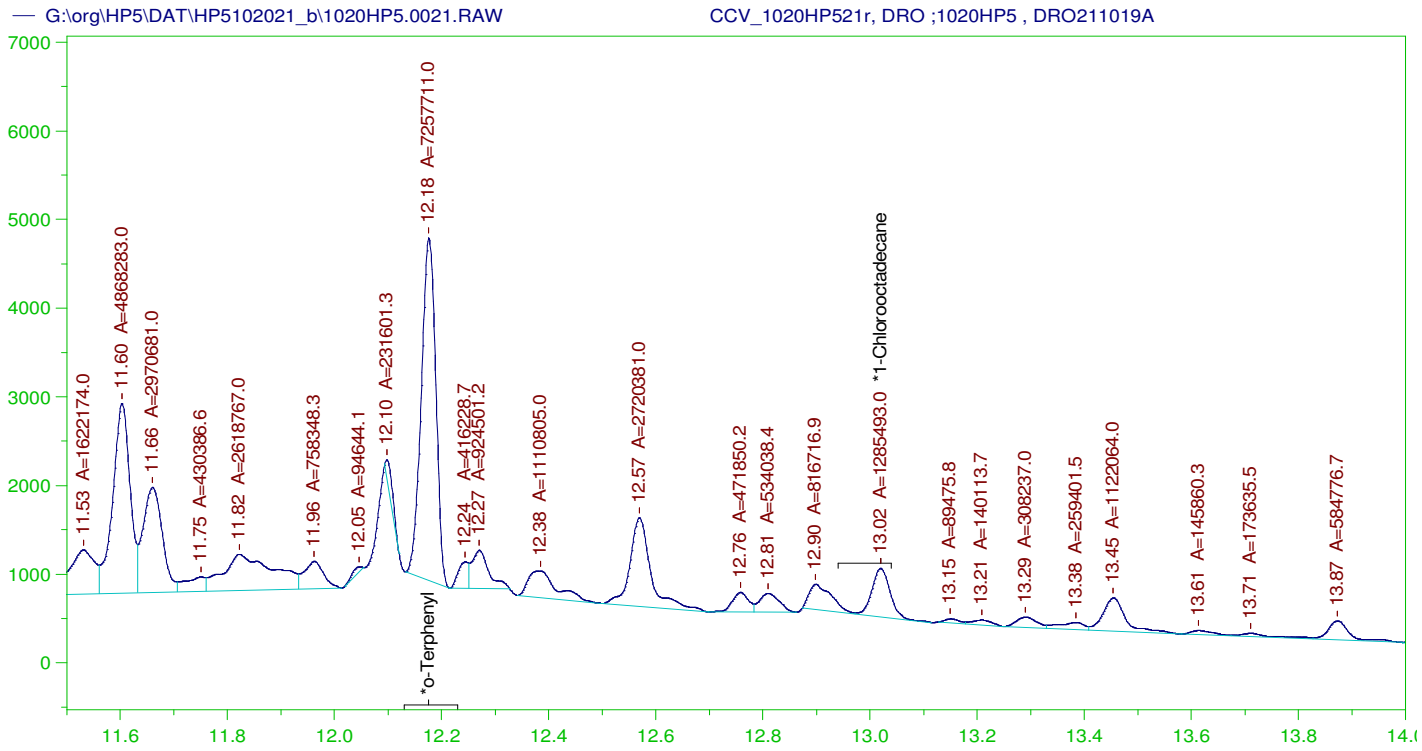



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP521r, DRO ;1020HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0021.RAW
Date & Time Acquired: 10/21/2021 3:45:40 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | 206.942 | 103.47 | - |
| *1-Chlorooctadecane | 13.02 | 200. | 36.654 | 18.33 | - |

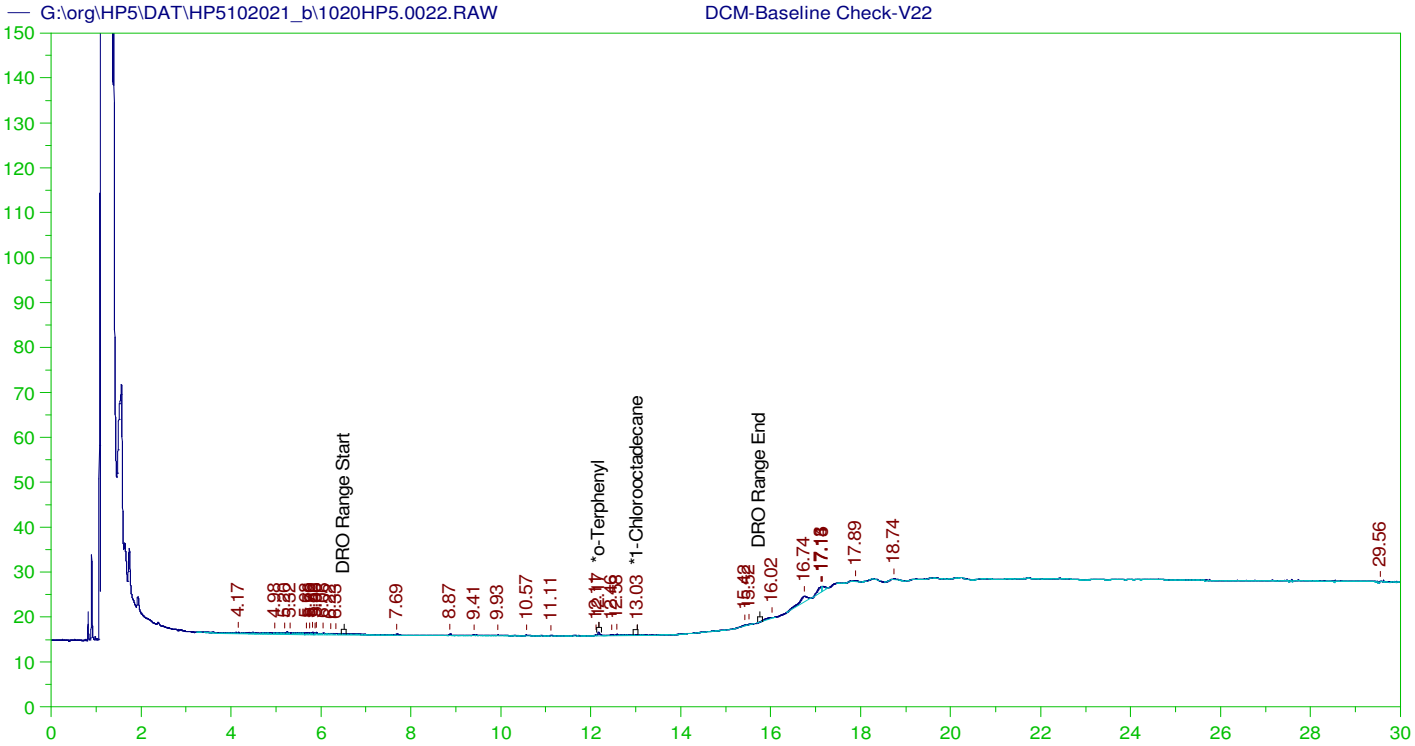
DRO Area:2.472896E+08 DRO Amount: 8394.842
TEH Area:2.573575E+08 TEH Amount: 8736.619

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0021.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8736.62 | 58.24 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | 206.942 | 103.47 | 85-115 |
| *1-Chlorooctadecane | 13.02 | 200. | 36.654 | 18.33 | 85-115 |

G:\org\HP5\dat\HP5102021_b\Review\021_CCV_1020HP521r_DS_8015-area-HT-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V22
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0022.RAW
Date & Time Acquired: 10/21/2021 4:28:31 AM
Method File: G:\Org\HP5\Methods\DR_8015-HT-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 15.81

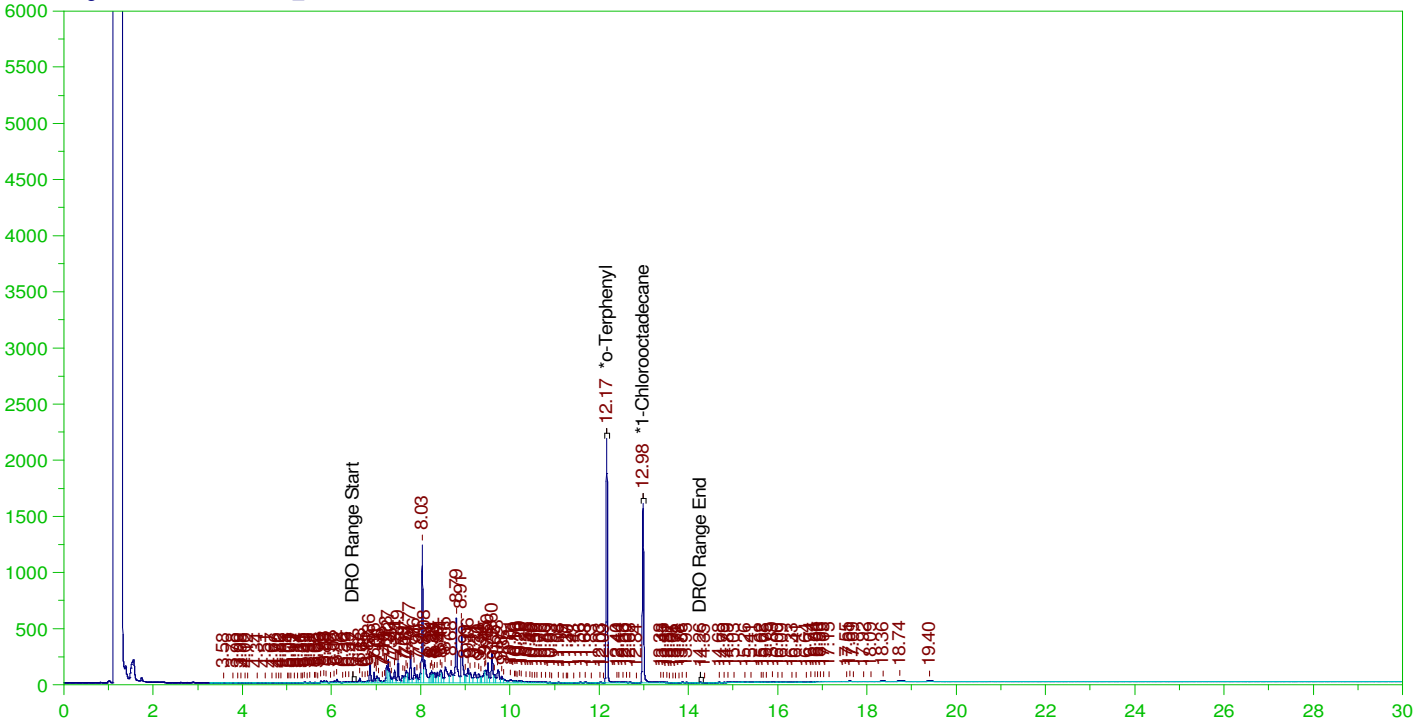
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.173 | 200. | .075 | .04 | - |
| *1-Chlorooctadecane | 13.031 | 200. | .017 | .01 | - |

DRO Area:36522.5 DRO Amount: 1.239844
TEH Area:127112.1 TEH Amount: 4.315125

G:\org\HP5\dat\HP5102021_b\Review\022_DCM-Baseline Chec_DR_8015-HT-LEXP.xls

**ERH1807 (RHMW02)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0023.RAW B21101306-002A ;1020HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-002A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0023.RAW
Date & Time Acquired: 10/21/2021 5:11:12 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

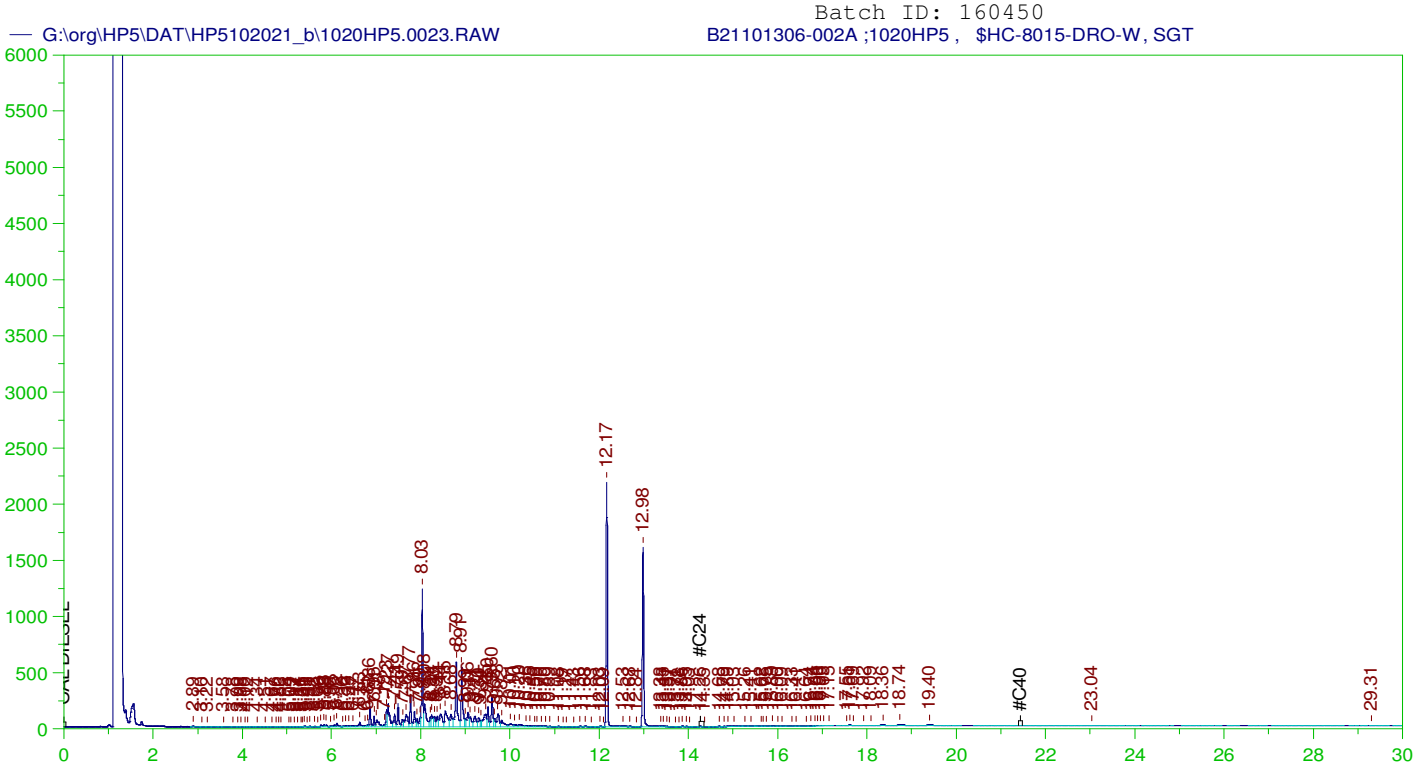
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .192 | .117 | 60.89 | - |
| *1-Chlorooctadecane | 12.979 | .192 | .099 | 51.64 | - |

DRO Area:1.787766E+07 DRO Amount: 0.583558
TEH Area:1.856678E+07 TEH Amount: 0.606052

G:\org\HP5\dat\HP5102021_b\Review\023_B21101306-002A_DR_8015-C24-HT-L%.xls

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-002A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0023.RAW
Date & Time Acquired: 10/21/2021 5:11:12 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.24 to 21.49

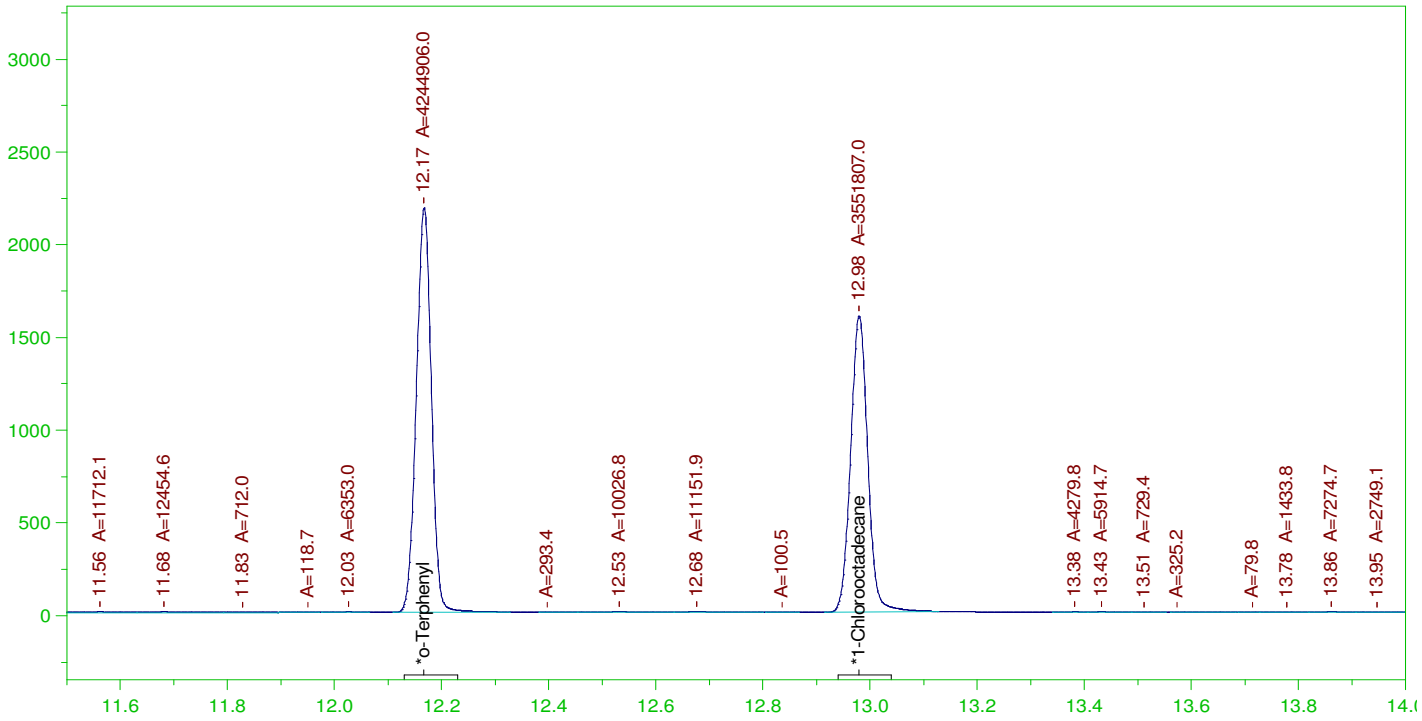
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:291324.2 RRO AMOUNT: 9.814148E-03

G:\org\HP5\dat\HP5102021_b\Review\023_B21101306-002A_DR_OIL-S-AK-L%.xls

**ERH1807 (RHMW02)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0023.RAW B21101306-002A ;1020HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

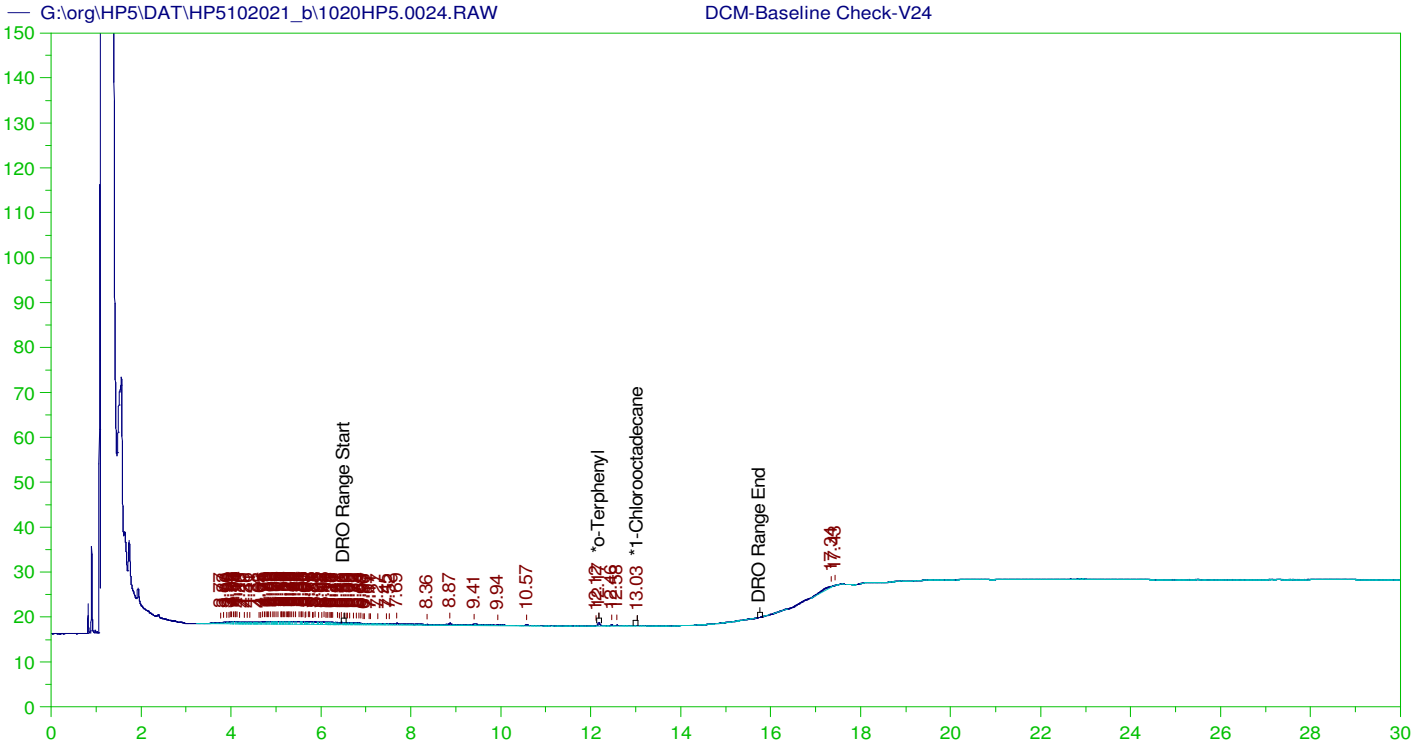
Sample Name: B21101306-002A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0023.RAW
Date & Time Acquired: 10/21/2021 5:11:12 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .192 | .116 | 60.52 | - |
| *1-Chlorooctadecane | 12.979 | .192 | .097 | 50.64 | - |

DRO Area:1.783025E+07 DRO Amount: 0.5820102
TEH Area:1.82732E+07 TEH Amount: 0.5964689

G:\org\HP5\dat\HP5102021_b\Review\023_B21101306-002A_DS_8015-area-HT-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V24
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0024.RAW
Date & Time Acquired: 10/21/2021 5:54:02 AM
Method File: G:\Org\HP5\Methods\DR_8015-HT-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 15.81

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.175 | 200. | .081 | .04 | - |
| *1-Chlorooctadecane | 13.03 | 200. | .021 | .01 | - |

DRO Area:58958.73 DRO Amount: 2.001496
TEH Area:151482.2 TEH Amount: 5.142427

G:\org\HP5\dat\HP5102021_b\Review\024_DCM-Baseline Chec_DR_8015-HT-LEXP.xls

**ERH1810 (RHMW03)** Batch ID: 160450

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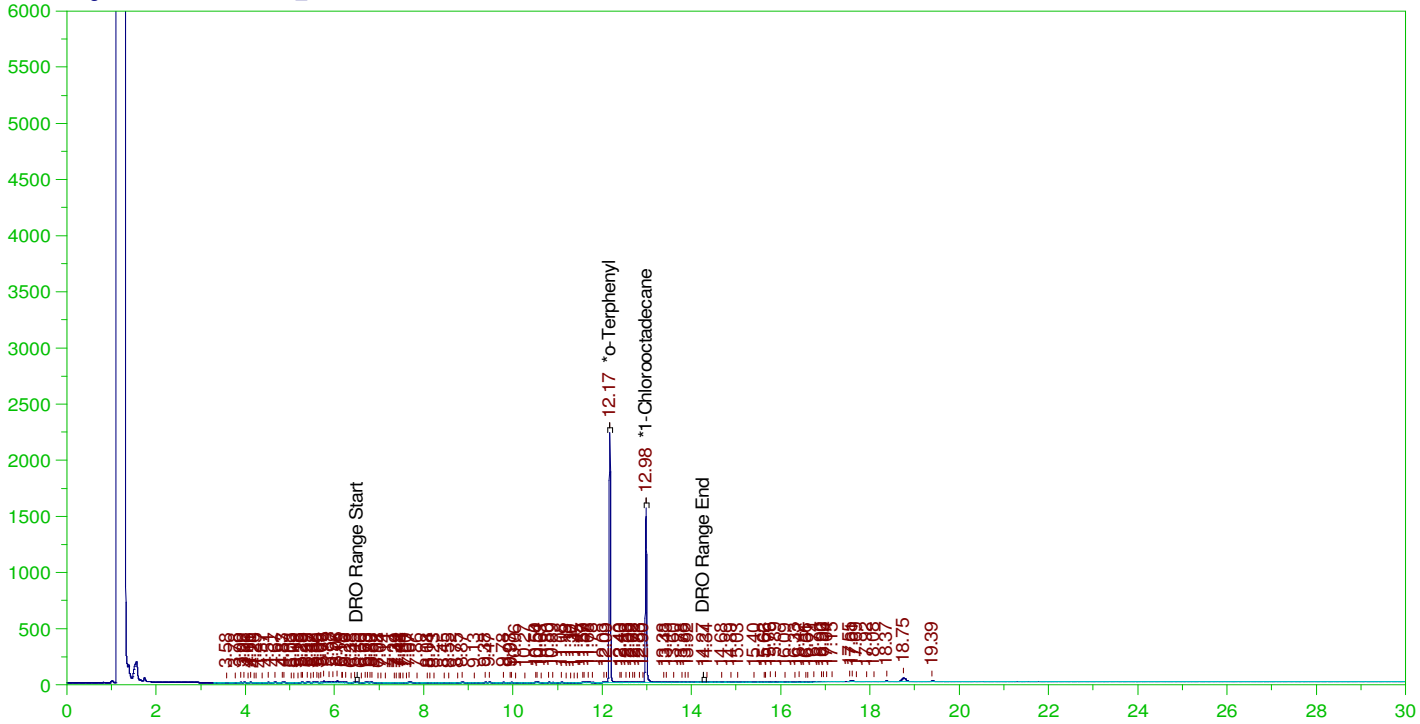



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-003A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0025.RAW
Date & Time Acquired: 10/21/2021 6:36:46 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

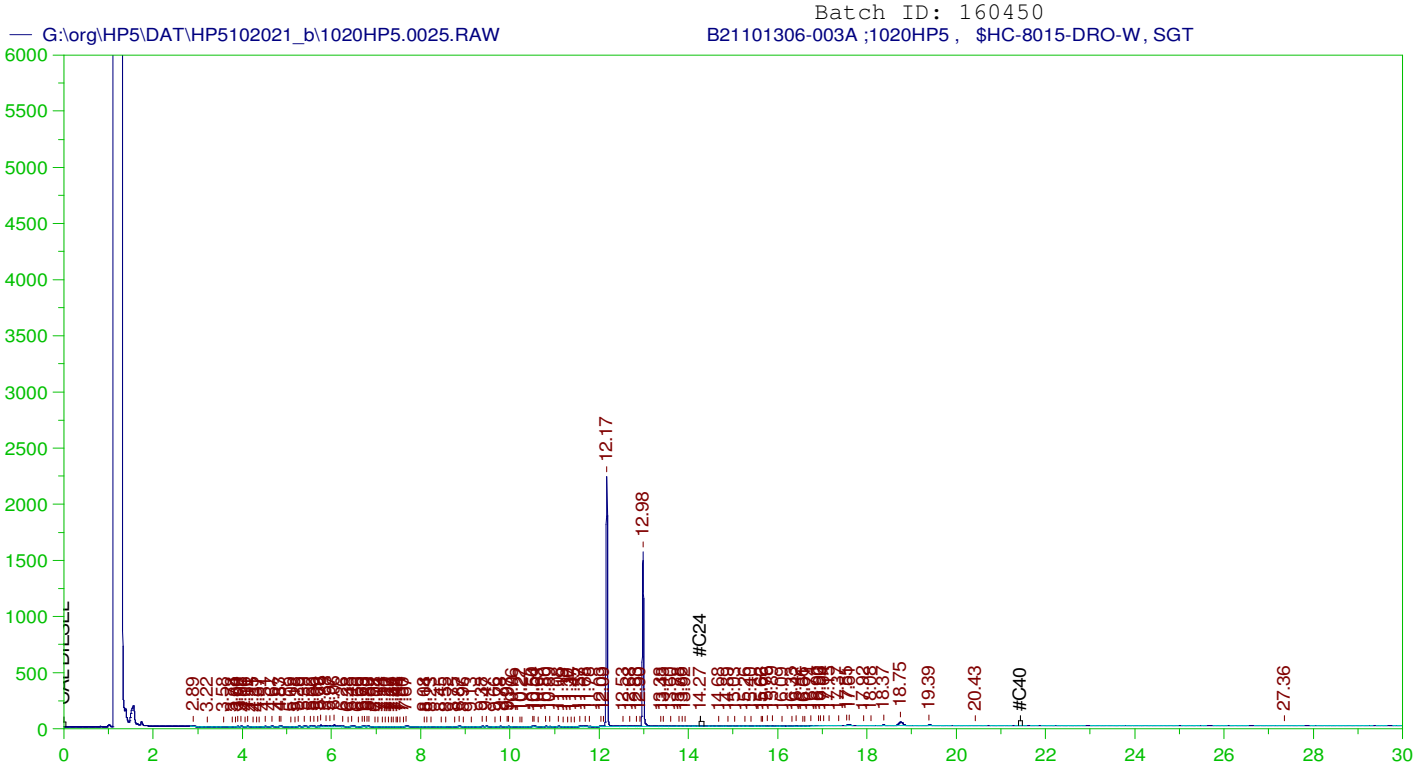
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.168 | .194 | .121 | 62.44 | - |
| *1-Chlorooctadecane | 12.98 | .194 | .097 | 50.01 | - |

DRO Area:235232.1 DRO Amount: 7.752932E-03
TEH Area:816811.9 TEH Amount: 2.692102E-02

G:\org\HP5\dat\HP5102021_b\Review\025_B21101306-003A_DR_8015-C24-HT-L%.xls

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-003A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0025.RAW
Date & Time Acquired: 10/21/2021 6:36:46 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.24 to 21.49

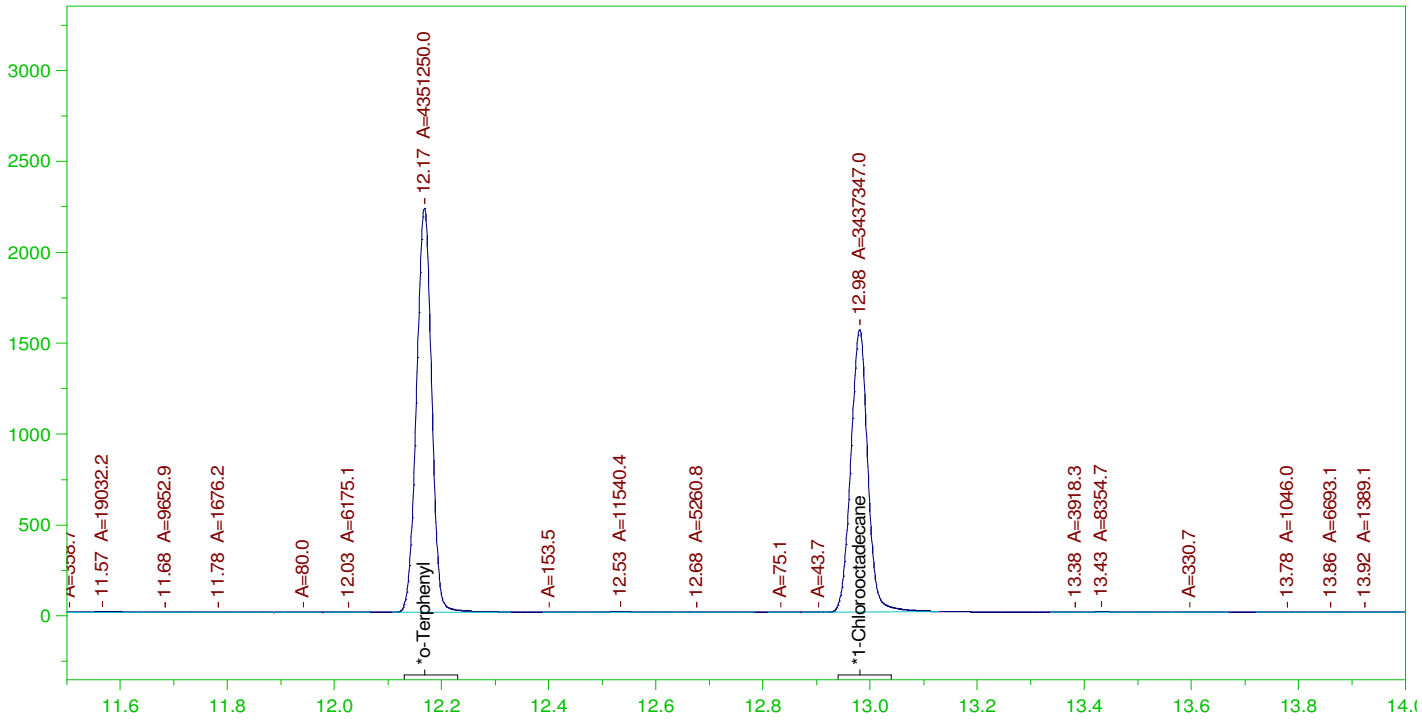
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:381929.2 RRO AMOUNT: 1.299137E-02

G:\org\HP5\dat\HP5102021_b\Review\025_B21101306-003A_DR_OIL-S-AK-L%.xls

**ERH1810 (RHMW03)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0025.RAW B21101306-003A ;1020HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

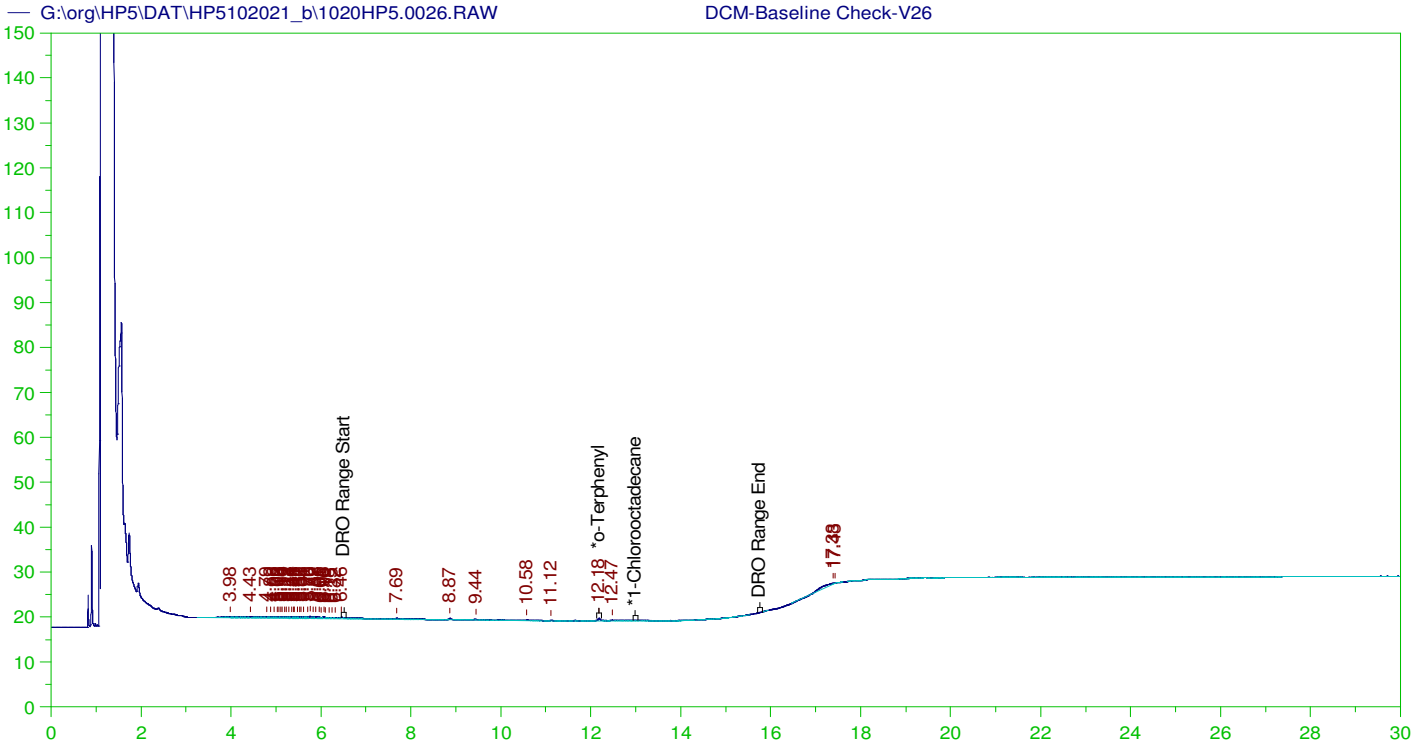
Sample Name: B21101306-003A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0025.RAW
Date & Time Acquired: 10/21/2021 6:36:46 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.168 | .194 | .12 | 62.03 | - |
| *1-Chlorooctadecane | 12.98 | .194 | .095 | 49.01 | - |

DRO Area:186791.9 DRO Amount: 6.156408E-03
TEH Area:441060 TEH Amount: 1.453674E-02

G:\org\HP5\dat\HP5102021_b\Review\025_B21101306-003A_DS_8015-area-HT-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V26
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0026.RAW
Date & Time Acquired: 10/21/2021 7:19:19 AM
Method File: G:\Org\HP5\Methods\DR_8015-HT-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 15.81

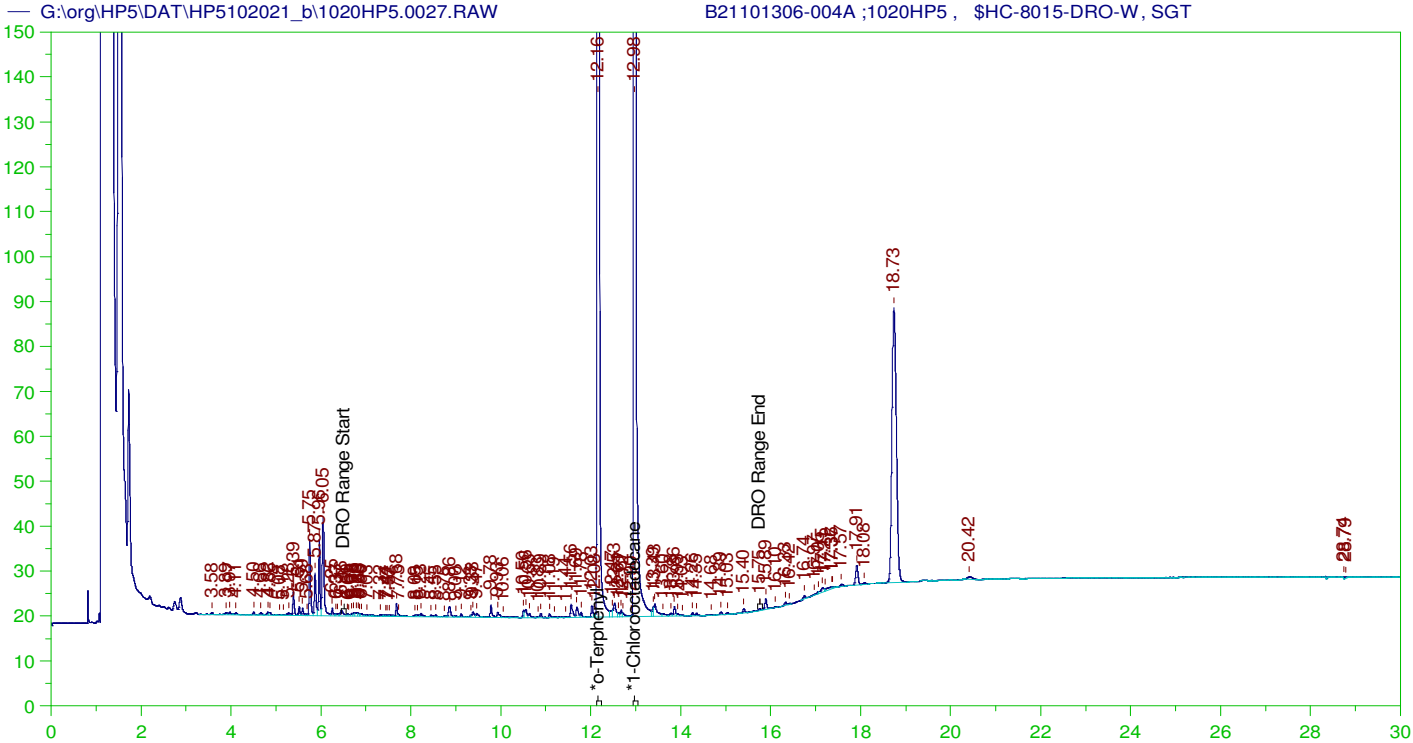
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.178 | 200. | .081 | .04 | - |
| *1-Chlorooctadecane | 29.987 | 200. | . | . | - |

DRO Area:34955.88 DRO Amount: 1.186661
TEH Area:104746.5 TEH Amount: 3.555872

G:\org\HP5\dat\HP5102021_b\Review\026_DCM-Baseline Chec_DR_8015-HT-LEXP.xls

**ERH1813 (RHMW05)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0027.RAW B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0027.RAW
Date & Time Acquired: 10/21/2021 8:02:26 AM
Method File: G:\Org\HP5\Methods\DR_8015-HT-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 15.81

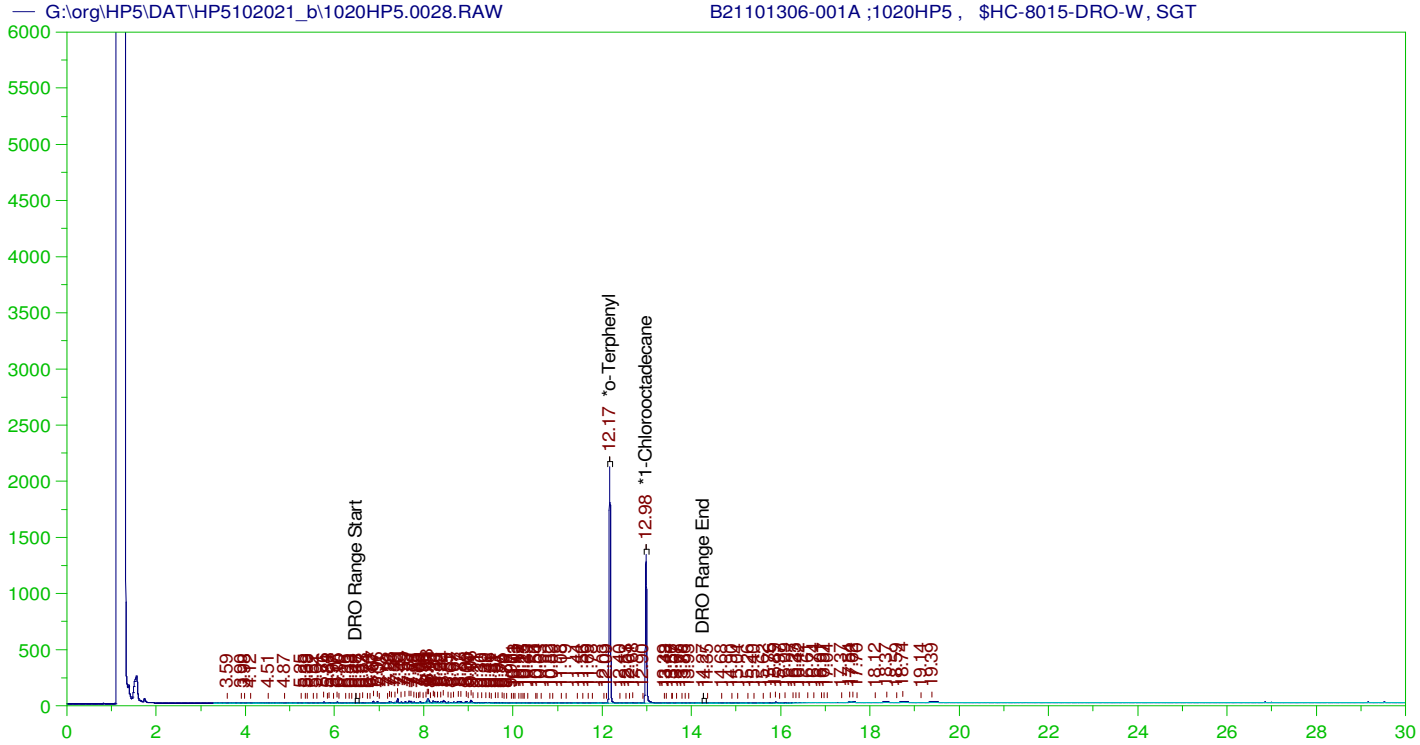
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.164 | .194 | .102 | 52.77 | - |
| *1-Chlorooctadecane | 12.976 | .194 | .077 | 39.48 | - |

DRO Area:197874 DRO Amount: 6.52166E-03
TEH Area:889151.9 TEH Amount: 2.930524E-02

G:\org\HP5\dat\HP5102021_b\Review\027_B21101306-004A_DR_8015-HT-LEXP.xls

**ERH1804 (RHMW01R)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0028.RAW B21101306-001A ;1020HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-001A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0028.RAW
Date & Time Acquired: 10/21/2021 8:45:08 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

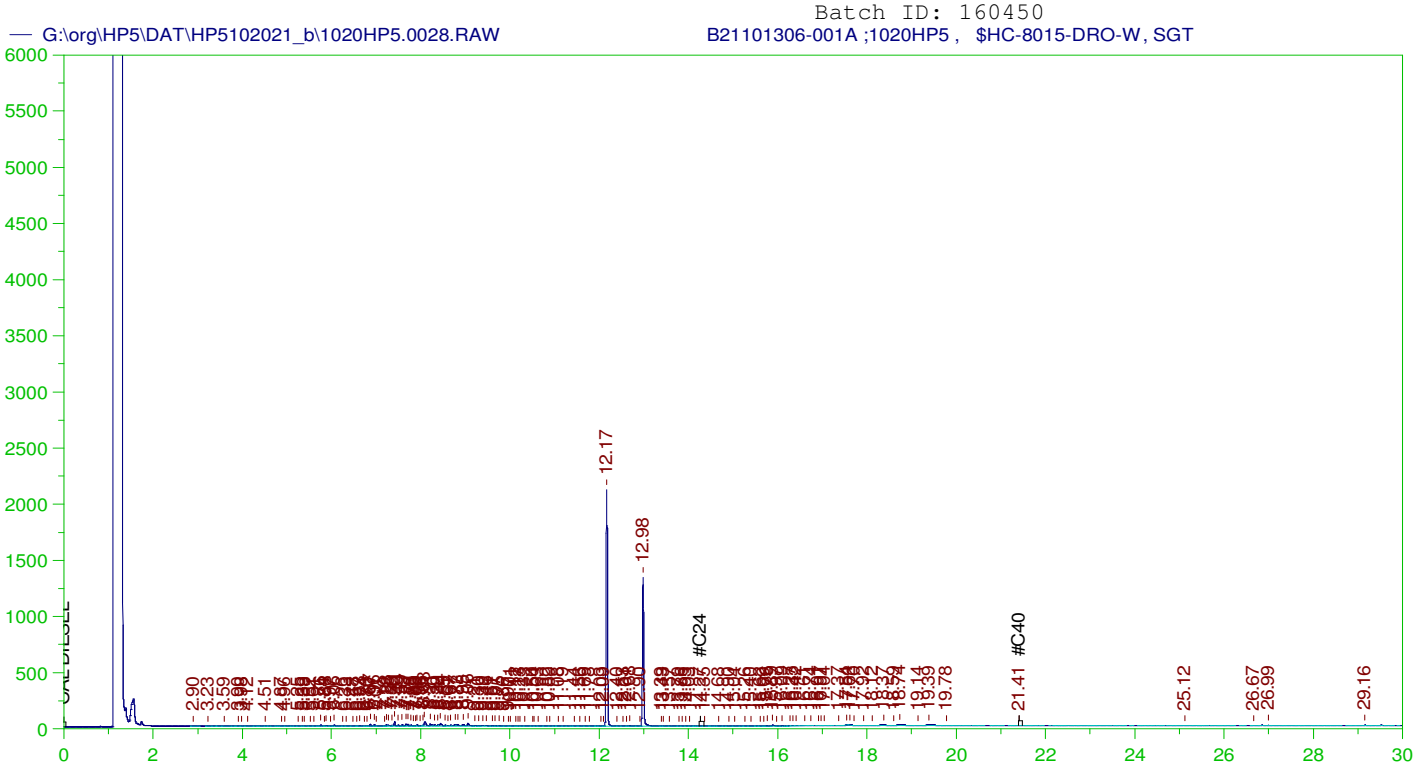
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .196 | .116 | 59.22 | - |
| *1-Chlorooctadecane | 12.98 | .196 | .085 | 43.4 | - |

DRO Area:1890710 DRO Amount: 6.292618E-02
TEH Area:2219638 TEH Amount: 7.387348E-02

G:\org\HP5\dat\HP5102021_b\Review\028_B21101306-001A_DR_8015-C24-HT-L%.xls

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-001A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0028.RAW
Date & Time Acquired: 10/21/2021 8:45:08 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.24 to 21.49

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:177223.6 RRO AMOUNT: 6.087386E-03

G:\org\HP5\dat\HP5102021_b\Review\028_B21101306-001A_DR_OIL-S-AK-L%.xls

**ERH1804 (RHMW01R)** Batch ID: 160450

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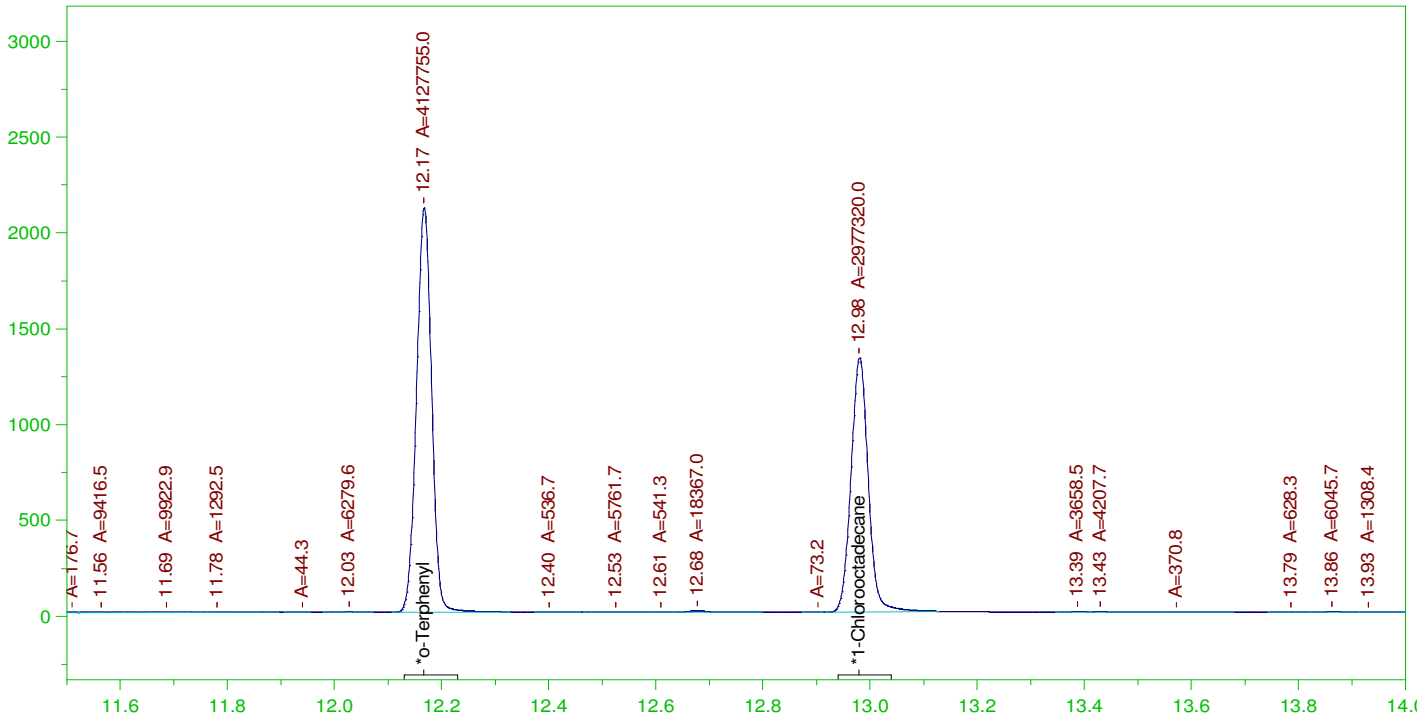



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-001A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0028.RAW
Date & Time Acquired: 10/21/2021 8:45:08 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

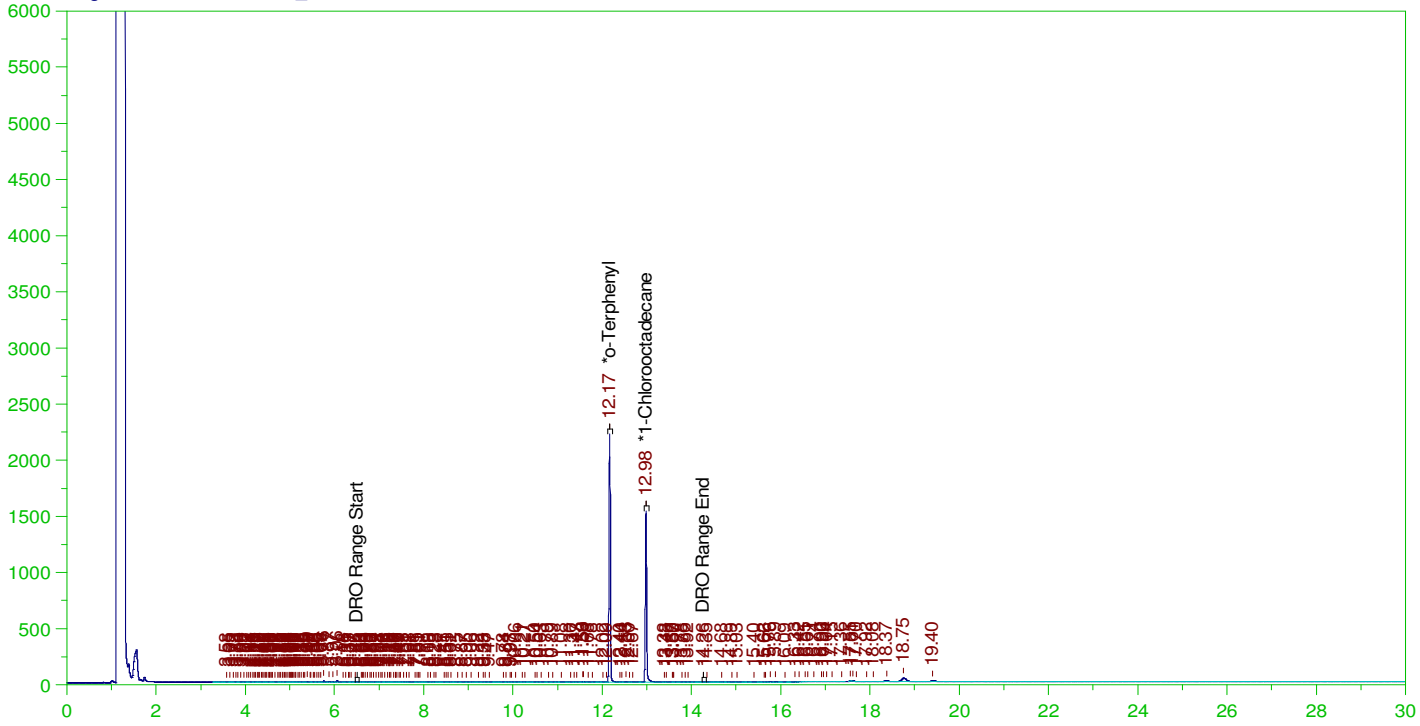
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .196 | .115 | 58.85 | - |
| *1-Chlorooctadecane | 12.98 | .196 | .083 | 42.45 | - |

DRO Area:1848993 DRO Amount: 6.153776E-02
TEH Area:2041657 TEH Amount: 6.794996E-02

G:\org\HP5\dat\HP5102021_b\Review\028_B21101306-001A_DS_8015-area-HT-L#.xls

**ERH1813 (RHMW05)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0029.RAW B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-RR
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0029.RAW
Date & Time Acquired: 10/21/2021 9:27:46 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

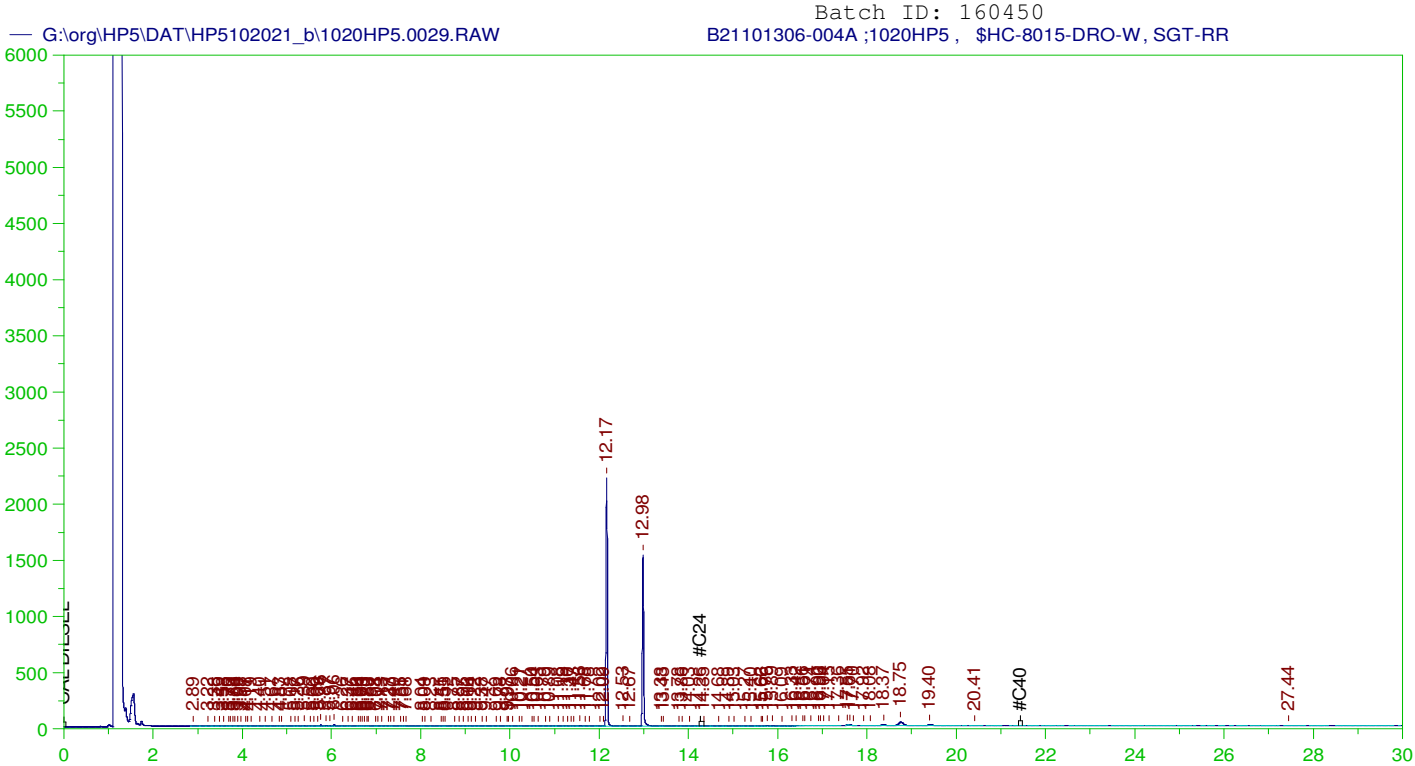
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | .194 | .12 | 61.82 | - |
| *1-Chlorooctadecane | 12.978 | .194 | .096 | 49.46 | - |

DRO Area:255436.6 DRO Amount: 8.418845E-03
TEH Area:888625.1 TEH Amount: 2.928788E-02

G:\org\HP5\dat\HP5102021_b\Review\029_B21101306-004A_DR_8015-C24-HT-L%.xls

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-RR
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0029.RAW
Date & Time Acquired: 10/21/2021 9:27:46 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.24 to 21.49

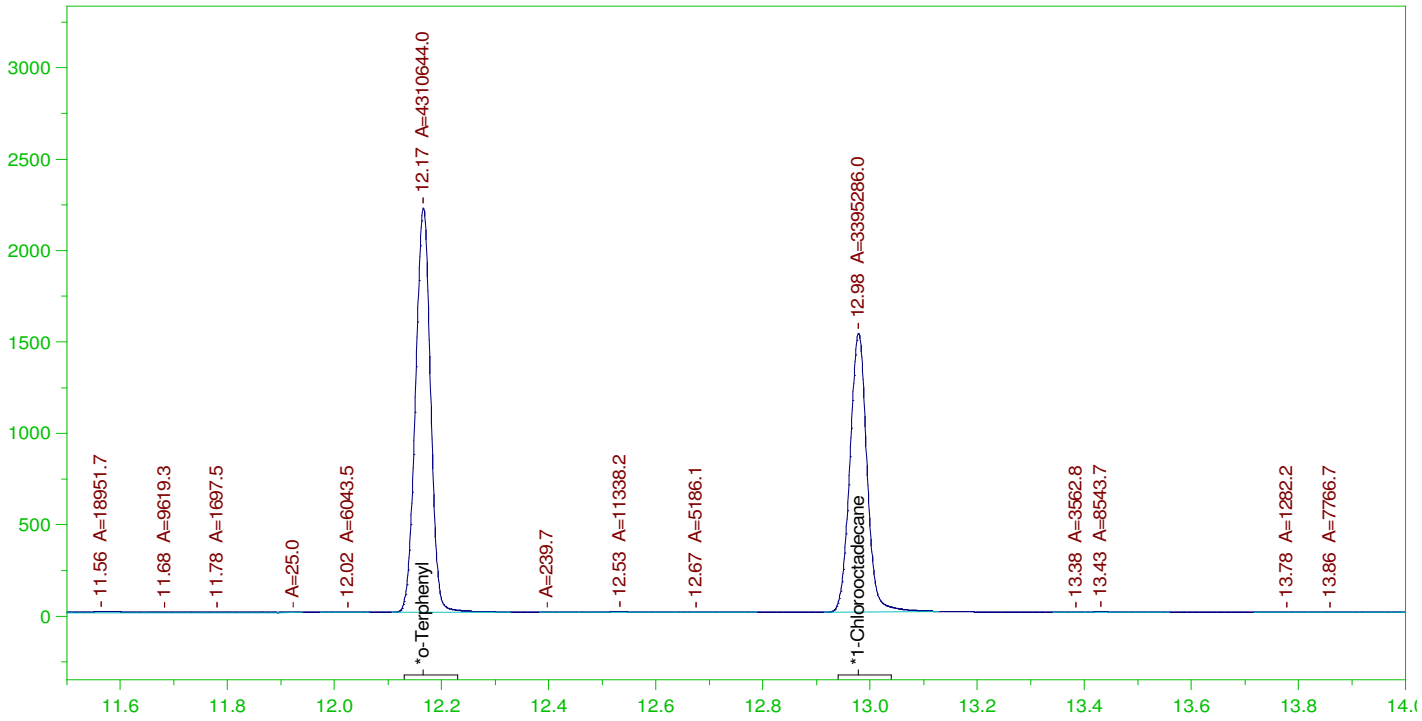
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:380308.3 RRO AMOUNT: 1.293624E-02

G:\org\HP5\dat\HP5102021_b\Review\029_B21101306-004A_DR_OIL-S-AK-L%.xls

**ERH1813 (RHMW05)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0029.RAW B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-RR
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0029.RAW
Date & Time Acquired: 10/21/2021 9:27:46 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | .194 | .119 | 61.46 | - |
| *1-Chlorooctadecane | 12.978 | .194 | .094 | 48.41 | - |

DRO Area:215625.8 DRO Amount: 7.106734E-03
TEH Area:547140.3 TEH Amount: 0.018033

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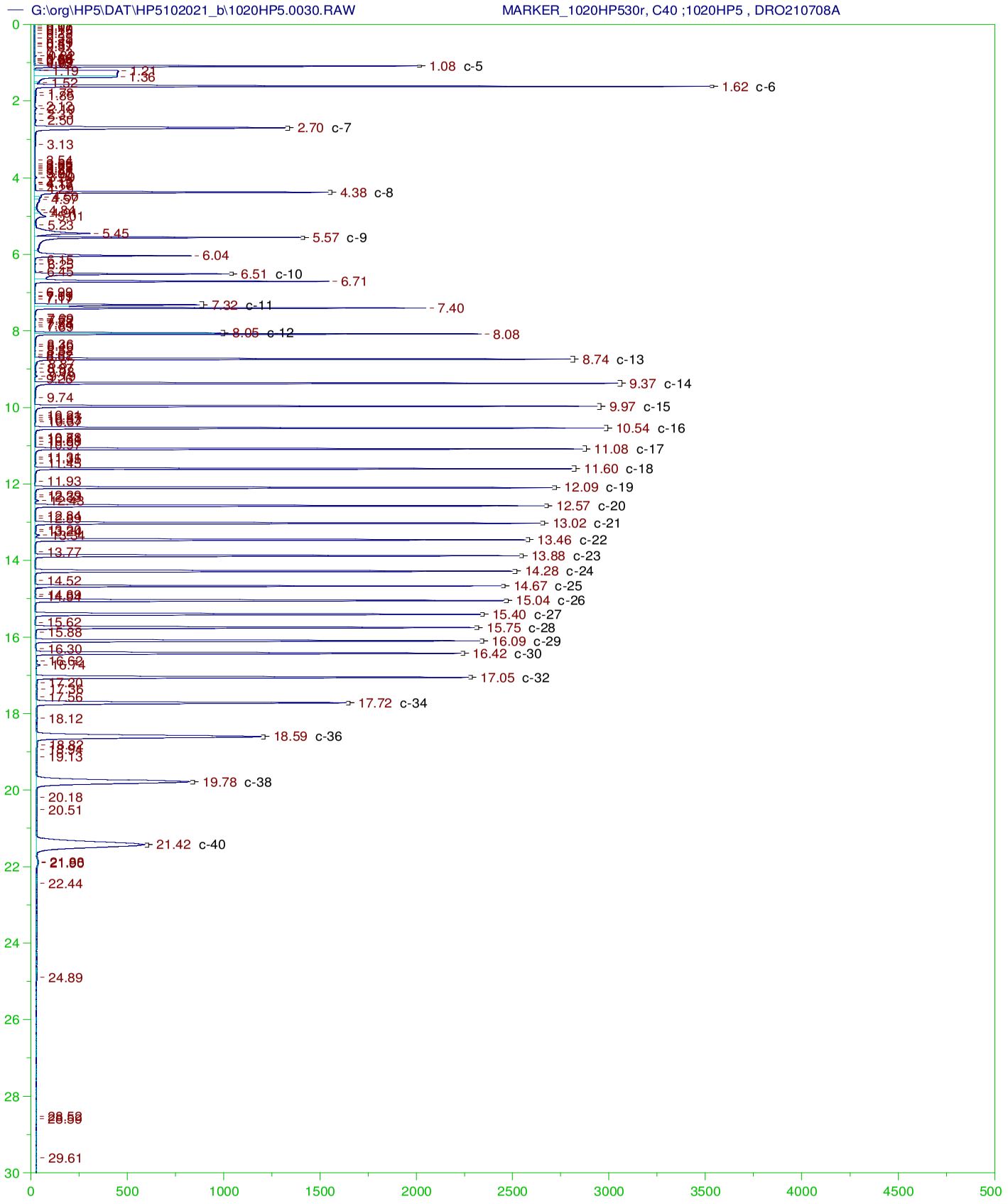
G:\org\HP5\DAT\HP5102021_b\1020HP5.0030.RAW
MARKER_1020HP530r, C40 ;1020HP5 , DRO210708A
1.08 c-5
1.62 c-6
2.70 c-7
4.38 c-8
5.57 c-9
6.51 c-10
7.32 c-11
8.05 c-12
8.74 c-13
9.37 c-14
9.97 c-15
10.54 c-16
11.08 c-17
11.60 c-18
12.09 c-19
12.57 c-20
13.02 c-21
13.46 c-22
13.88 c-23
14.28 c-24
14.67 c-25
15.04 c-26
15.40 c-27
15.75 c-28
16.09 c-29
16.42 c-30
17.05 c-32
17.72 c-34
18.59 c-36
19.78 c-38
21.42 c-40
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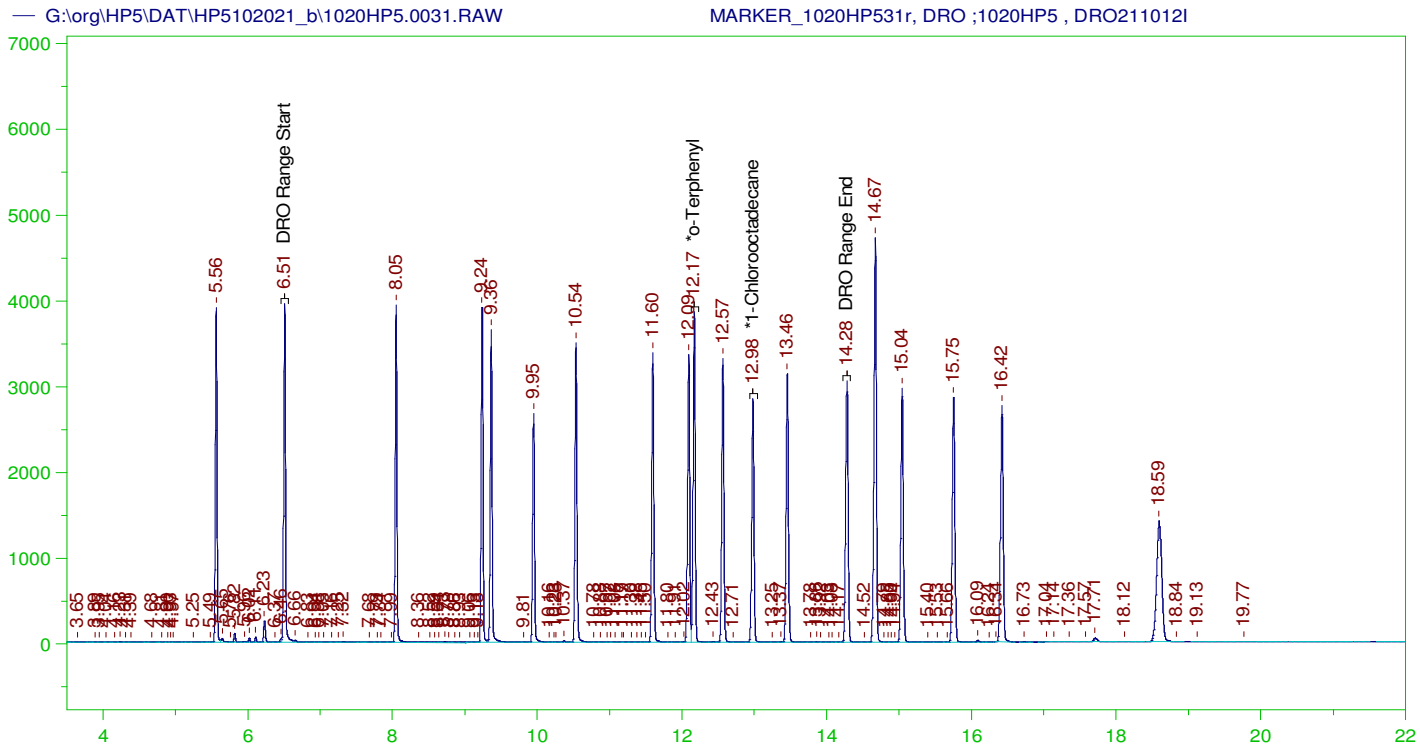


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER_1020HP531r, DRO ;1020HP5 , DRO211012I
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0031.RAW
Date & Time Acquired: 10/21/2021 10:53:01 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.169 | .2 | .218 | 108.76 | - |
| *1-Chlorooctadecane | 12.979 | .2 | .176 | 88.06 | - |

DRO Area:7.392562E+07 DRO Amount: 2.509583
TEH Area:1.218666E+08 TEH Amount: 4.137056

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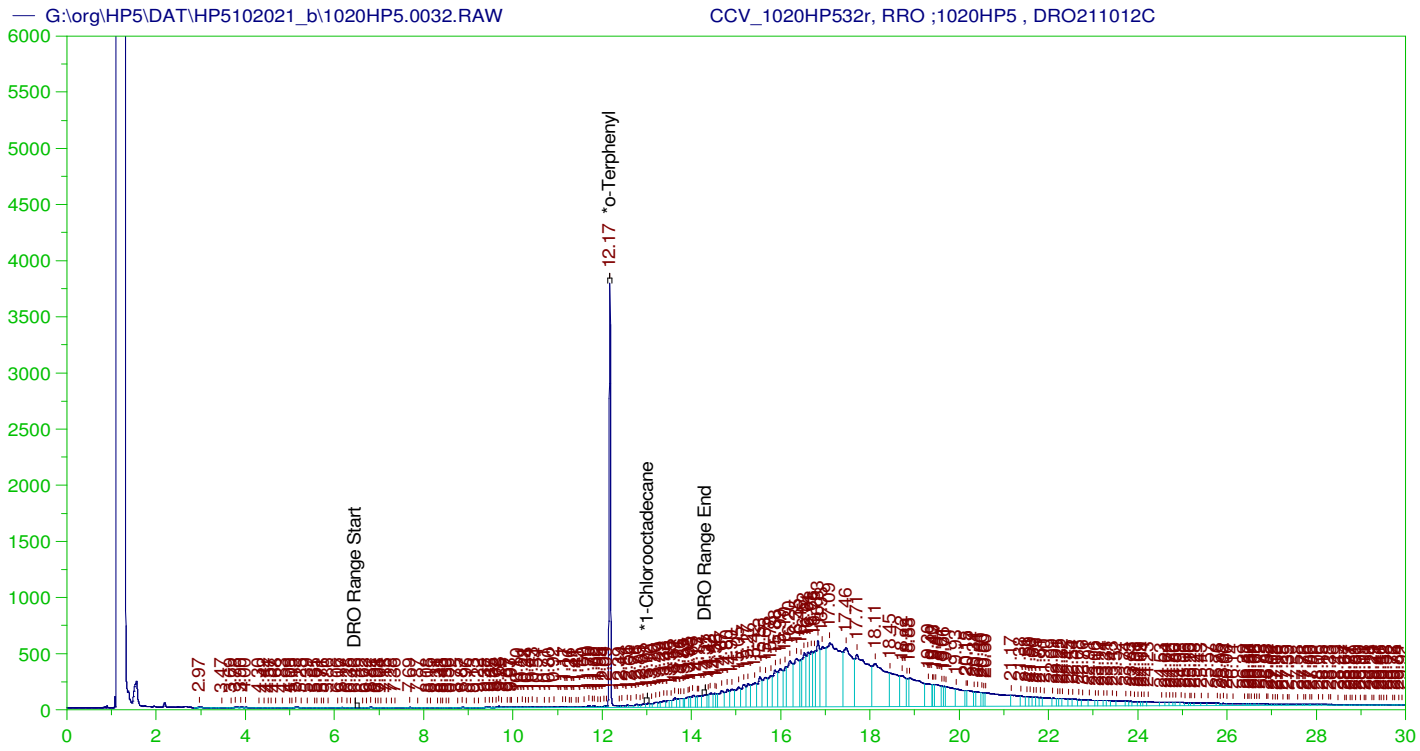



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP532r, RRO ;1020HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0032.RAW
Date & Time Acquired: 10/21/2021 11:35:27 AM
Method File: G:\Org\HP5\Methods\DC_OIL-AK-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | 211.461 | 105.73 | - |
| *1-Chlorooctadecane | 13.019 | 200. | 4.456 | 2.23 | - |

DRO Area:6760950 DRO Amount: 236.8738
TEH (Oil Range) Area:1.342846E+08 TEH (Oil Range) Amount: 4704.738

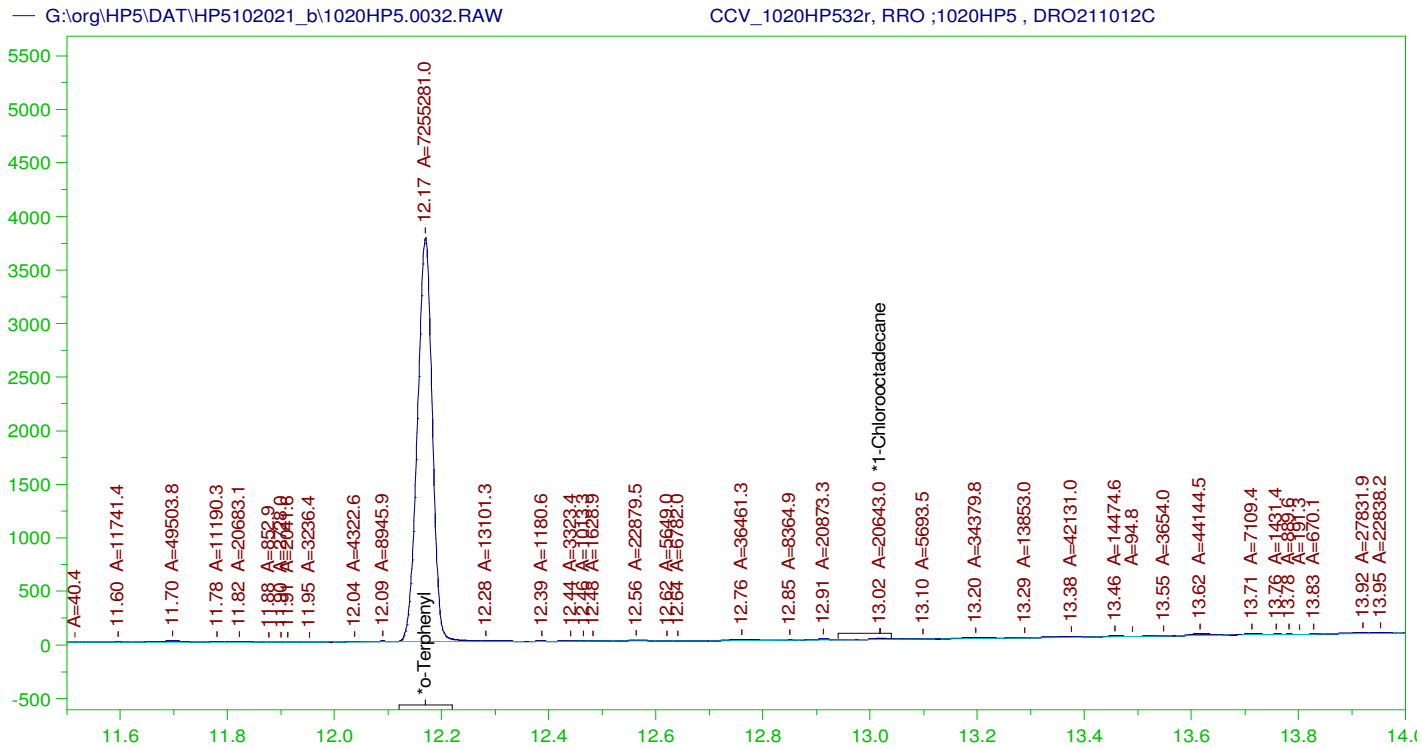
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0032.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 4704.74 | 94.09 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | 211.461 | 105.73 | 85-115 |
| *1-Chlorooctadecane | 13.019 | 200. | 4.456 | 2.23 | 85-115 |

AMN 10/25/2021

G:\org\HP5\dat\HP5102021_b\Review\032_CCV_1020HP532r_DC_OIL-AK-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP532r, RRO ;1020HP5 , DRO211012C
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0032.RAW
Date & Time Acquired: 10/21/2021 11:35:27 AM
Method File: G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | 206.873 | 103.44 | - |
| *1-Chlorooctadecane | 13.019 | 200. | .589 | .29 | - |

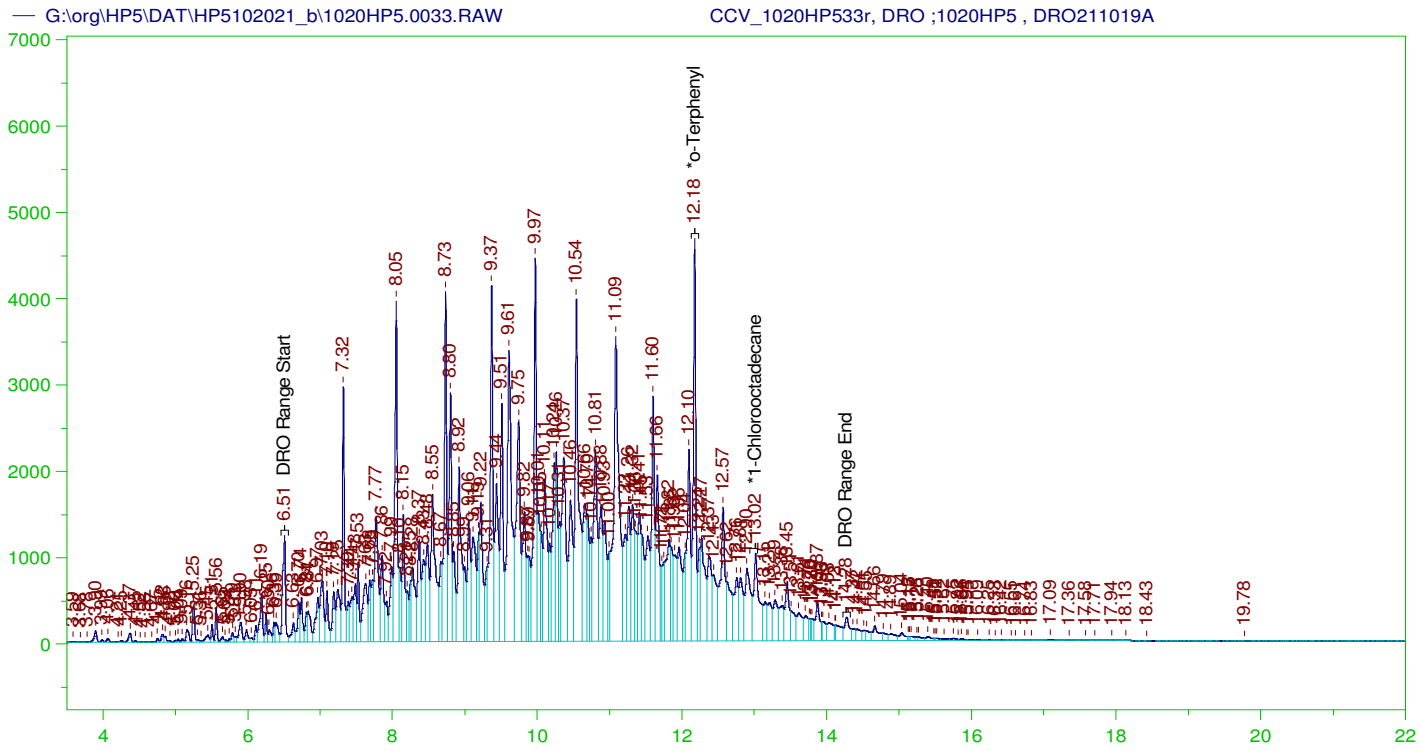
DRO Area:797893 DRO Amount: 27.95465
TEH Area:2058638 TEH Amount: 72.12559

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0032.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 72.13 | 1.44 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | 206.873 | 103.44 | 85-115 |
| *1-Chlorooctadecane | 13.019 | 200. | .589 | .29 | 85-115 |

G:\org\HP5\dat\HP5102021_b\Review\032_CCV_1020HP532r_DS_OIL-AREA-AK-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP533r, DRO ;1020HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0033.RAW
Date & Time Acquired: 10/21/2021 12:17:51 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.175 | 200. | 329.382 | 164.69 | - |
| *1-Chlorooctadecane | 13.019 | 200. | 150.027 | 75.01 | - |

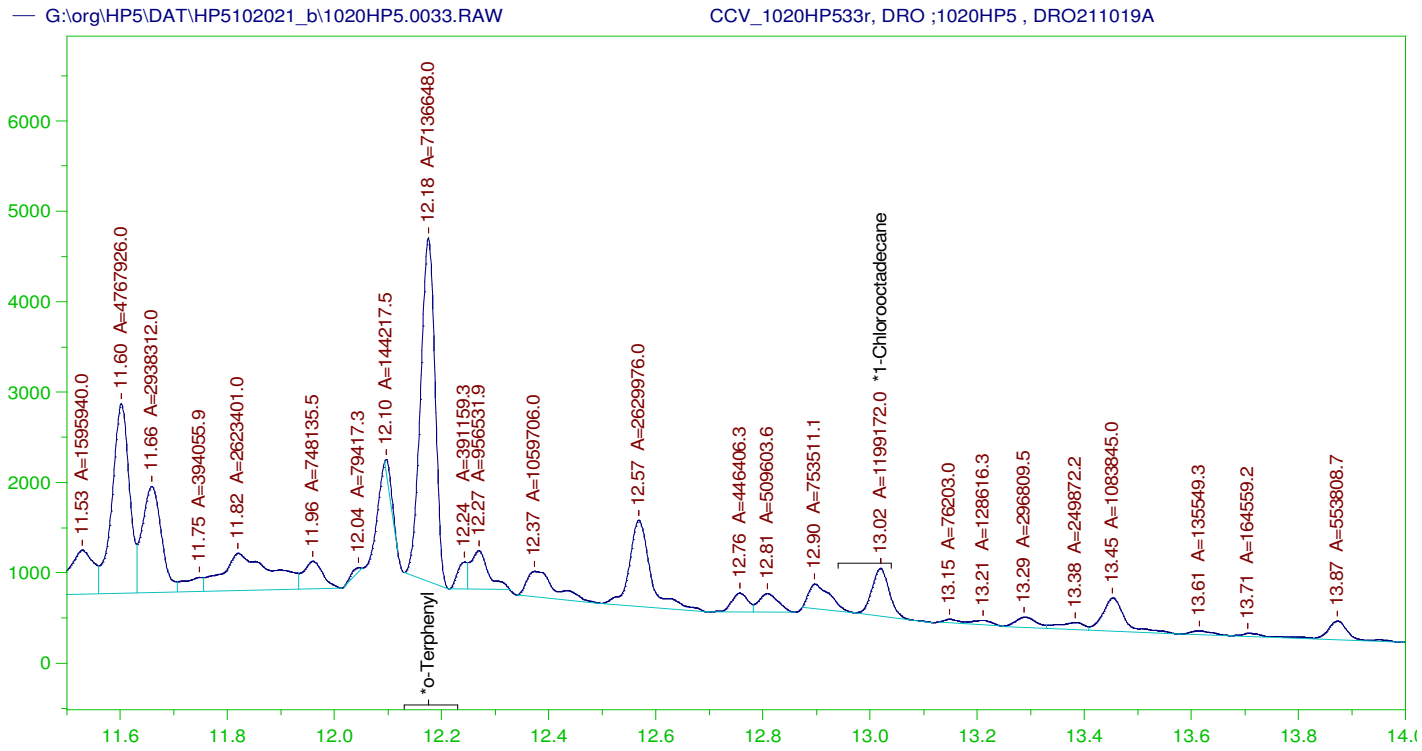
DRO Area:4.372467E+08 DRO Amount: 14843.39
TEH Area:4.531039E+08 TEH Amount: 15381.7

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0033.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15381.7 | 102.54 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.175 | 200. | 329.382 | 164.69 | 85-115 |
| *1-Chlorooctadecane | 13.019 | 200. | 150.027 | 75.01 | 85-115 |

G:\org\HP5\dat\HP5102021_b\Review\033_CCV_1020HP533r_DC_8015-C24-HT-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1020HP533r, DRO ;1020HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0033.RAW
Date & Time Acquired: 10/21/2021 12:17:51 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HT-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.175 | 200. | 203.49 | 101.75 | - |
| *1-Chlorooctadecane | 13.019 | 200. | 34.192 | 17.1 | - |

DRO Area:2.426698E+08 DRO Amount: 8238.01
TEH Area:2.525647E+08 TEH Amount: 8573.915

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102021_b\1020HP5.0033.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8573.92 | 57.16 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.175 | 200. | 203.49 | 101.75 | 85-115 |
| *1-Chlorooctadecane | 13.019 | 200. | 34.192 | 17.1 | 85-115 |

G:\org\HP5\dat\HP5102021_b\Review\033_CCV_1020HP533r_DS_8015-area-HT-L#.xls

| Write Sequence | Insert Entries(Have the first cell for entries selecte | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.01r | DCM-Baseline Check-V01 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.03r | MARKER_1020HP503r, C40 ;1020HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211020.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.04r | MARKER_1020HP504r, DRO ;1020HP5 , DRO211012I | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.05r | CCV_1020HP505r, RRO ;1020HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.06r | CCV_1020HP506r, DRO ;1020HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.07r | DCM-Baseline Check-V07 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.08r | LCS-160450 ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.09r | LCSD-160450 ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_8015-102009-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak Width Adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.10r | MB-160450 ;1020HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.11r | B21101295-001A ;1020HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.12r | B21101295-001AMS ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_8015-102009-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 960 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak Width Adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.13r | B21101295-001AMS-RRO ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.15r | LCS-160450-RRO ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.16r | DCM-Baseline Check-V16 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.17r | LCSD-160450-RRO ;1020HP5 , SGT | G:\Org\HP5\Methods\D3_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.18r | MARKER_1020HP518r, C40 ;1020HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211020.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.19r | MARKER_1020HP519r, DRO ;1020HP5 , DRO211012I | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.20r | CCV_1020HP520r, RRO ;1020HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.21r | CCV_1020HP521r, DRO ;1020HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.22r | DCM-Baseline Check-V22 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.23r | B21101306-002A ;1020HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.24r | DCM-Baseline Check-V24 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.25r | B21101306-003A ;1020HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.26r | DCM-Baseline Check-V26 | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.27r | B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-NEEDS RR DUE VERIFY | G:\Org\HP5\Methods\DR_8015-HT-LEXP.met | 1030 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.28r | B21101306-001A ;1020HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.29r | B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-RR | G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.30r | MARKER_1020HP530r, C40 ;1020HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211020.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.31r | MARKER_1020HP531r, DRO ;1020HP5 , DRO211012I | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.32r | CCV_1020HP532r, RRO ;1020HP5 , DRO211012C | G:\Org\HP5\Methods\DC_OIL-AK-L%.met<br>G:\Org\HP5\Methods\DS_OIL-AREA-AK-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.11 and slightly after the surrogate peak at 12.36 and scaling showing surrogate peak from 11.5-14.0. |
| G:\org\HP5\DAT\HP5102021_b\1020HP5.33r | CCV_1020HP533r, DRO ;1020HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HT-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HT-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.09 and slightly after the surrogate peak at 12.33 and scaling showing surrogate peak from 11.5-14. |

# ANALYTICAL SUMMARY REPORT

November 09, 2021

AECOM - Honolulu
1001 Bishop Street, Suite 1600
Honolulu HI, 96813-3698

Work Order: B21101306 Quote ID: 5912

Project Name: CV_18F0126/60571032.02.20.01

Energy Laboratories Inc Billings MT received the following 7 samples from AECOM - Honolulu on 10/16/2021 for analysis.

| Lab ID | Client Sample ID | Collect Date | Received Date | Matrix | Test |
|---|---|---|---|---|---|
| B21101306-001 | ERH1804 (RHMW01R) | 10/13/21 14:48 | 10/16/2021 | Ground Water | DRO-Liquid-Liquid Extraction SW3520C<br>Diesel Range Organics SW8015C |
| B21101306-002 | ERH1807 (RHMW02) | 10/13/21 15:57 | 10/16/2021 | Ground Water | Same As Above |
| B21101306-003 | ERH1810 (RHMW03) | 10/13/21 16:55 | 10/16/2021 | Ground Water | Same As Above |
| B21101306-004 | ERH1813 (RHMW05) | 10/13/21 13:25 | 10/16/2021 | Ground Water | Same As Above |
| B21101306-005 | ERH1816 (RHMW2254-01) | 10/13/21 13:30 | 10/16/2021 | Ground Water | Same As Above |
| B21101306-006 | ERH1819 (RHSF) | 10/13/21 13:15 | 10/16/2021 | Drinking Water | Same As Above |
| B21101306-007 | ERH1821 (RHSF) | 10/13/21 13:15 | 10/16/2021 | Drinking Water | Same As Above |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

**CLIENT:** AECOM - Honolulu
**Project:** CV_18F0126/60571032.02.20.01
**Work Order:** B21101306

**Revised Date:** 11/9/2021
**Report Date:** 10/26/2021

# CASE NARRATIVE

Revised Date: 11/09/2021

On 11/05/2021 an email was received from Alethea Ramos at AECOM requesting the laboratory to revise this work order to report all J flagged detected values above the detection limit for EPA Method 8015C range analytes. The report has been revised and replaces the previously issued report dated 10/26/2021 in its entirety.

General Comments:

For any question please contact your Project Manager at (406) 252-6325 or billingspm@energylab.com.

All analyses have been performed in accordance with DOD QSM Version 5.3 unless otherwise noted below. The specific methodologies used in obtaining the enclosed analytical results are indicated on the Analytical Summary Report and the Laboratory Analytical Report. The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted in the Work Order Receipt Checklist.

The tests listed below are accredited and meet the requirements of DoD QSM Version 5.3 as verified by ANSI-ASQ National Accreditation Board (ANAB) certificate number ADE-2588. Exceptions to this require client authorization and records documenting this approval are attached in the Sample Management Records. Accreditation may not be offered or required for all methods and analytes reported in this package. Refer to the certificate and scope of accreditation located at https://www.energylab.com/whyus/certifications-quality-control/ or contact your project manager.

Project specific matrix quality control samples may not be reported if site specific samples were not submitted. Matrix quality control samples were performed on project samples where adequate volume was available. All quality control measures met criteria unless otherwise noted in the Analytical QC Exceptions report and in the Analysis Specific Comments below. Where available, sample management records are attached.

The Level IV Validation Package includes data reports for all analyses associated with the instrument calibration, quality control (QC) sample analysis, and sample analysis. All analytical data is within method specifications except as noted in the Analytical QC Exceptions report or the Analysis Specific Comments below. The analytical report identifies preparation batch and analytical run IDs associated with each result for a sample. Only the raw data associated with the parameters listed on this report should be validated.

Analysis Specific Comments:

An Analytical QC Exceptions Report has been attached, summarizing all qualified QC results. All quality control measures met criteria; therefore there were no analytical QC exceptions on this report.

ENERGY LABORATORIES
Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record 202110-12

DoD Samples

www.energylab.com

COC# NOI Page 1 of 3

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |

Special Report/Formats: ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 10 working days.
4. Note: NOI log in separate from other COCs

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name GM, NL, MM | Sampler Phone 808-987-3201 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI CAS ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1804 (RHMW01R) | 10/13/2021 | 10:48 am | 2 | GW | ✔ | ✔ | | | | | | | | | X | B21101306 |
| 2 | ERH1807 (RHMW02) | 10/13/2021 | 11:57 am | 2 | GW | ✔ | ✔ | | | | | | | | | X | |
| 3 | ERH1810 (RHMW03) | 10/13/2021 | 12:55 pm | 2 | GW | ✔ | ✔ | | | | | | | | | X | |
| 4 | ERH1813 (RHMW05) | 10/13/2021 | 9:25 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 5 | ERH1816 (RHMW2254-01) | 10/13/2021 | 9:30 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 6 | ERH1819 (RHSF) | 10/13/2021 | 9:15 am | 0 | DW | ✔ | ✔ | | | | | | | | | X | |
| 7 | ERH1821 (RHSF) | 10/13/2021 | 9:15 am | 0 | DW | ✔ | ✔ | | | | | | | | | X | |
| 8 | TR 10/14/21 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/14/21 13:00 | [signature] | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | [illegible] | 10/16/21 1125 | [signature] |

**LABORATORY USE ONLY**

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | On Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | 20 °C | Y N | Y N | CC Cash Check_____ | $ | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ENERGY LABORATORIES
Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record 202110-13

DoD Samples

www.energylab.com

COC# NOI

Page 2 of 3

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |
| Special Report/Formats | ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____ |

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 10 working days.
4. Note: NOI log in separate from other COCs

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name GM, NL MM | Sampler Phone 808-987-3201 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

**Analysis Requested**

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1804 (RHMW01R) | 10/13/2021 | 10:48 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | B21101306 |
| 2 | ERH1807 (RHMW02) | 10/13/2021 | 11:57 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 3 | ERH1810 (RHMW03) | 10/13/2021 | 12:55 pm | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 4 | ERH1813 (RHMW05) | 10/13/2021 | 9:25 am | 2 | GW | ✔ | ✔ | | | | | | | | | X | |
| 5 | ERH1816 (RHMW2254-01) | 10/13/2021 | 9:30 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 6 | ERH1819 (RHSF) | 10/13/2021 | 9:15 am | 0 | DW | ✔ | ✔ | | | | | | | | | X | |
| 7 | ERH1821 (RHSF) | 10/13/2021 | 9:15 am | 0 | DW | ✔ | ✔ | | | | | | | | | X | |
| 8 | ~~Jn 10/14/21~~ | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/14/21 13:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | | 10/14/21 1125 | |

**LABORATORY USE ONLY**

| Shipped By | Cooler ID(s) | Custody Seals Y N C B | Intact Y N | Receipt Temp 14 °C | Temp Blank Y N | On Ice Y N | Payment Type CC Cash Check_____ | Amount $ | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

In certain circumstances, samples submitted to Energy Laboratories, Inc may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ENERGY LABORATORIES
Trust our People. Trust our Data

# Chain of Custody & Analytical Request Record 202110-14

DoD Samples

www.energylab.com

COC# NOI

Page 3 of 3

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |
| Special Report/Formats | ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____ |

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 10 working days.
4. Note "non-PO" on invoice.
5. Note: NOI log in separate from other COCs

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032 02.20.01 |
| Sampler Name DM, AM | Sampler Phone 310-625-1283 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**

| | |
|---|---|
| A - | Air |
| W- | Water |
| S - | Soils/ Solids |
| V | Vegetation |
| B - | Bioassay |
| O - | Oil |
| DW - | Drinking Water |

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

**Analysis Requested**

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/ RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1804 (RHMW01R) | 10/13/2021 | 10:48 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | B2110 1306 |
| 2 | ERH1807 (RHMW02) | 10/13/2021 | 11:57 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 3 | ERH1810 (RHMW03) | 10/13/2021 | 12:55 pm | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 4 | ERH1813 (RHMW05) | 10/13/2021 | 9:25 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 5 | ERH1816 (RHMW2254-01) | 10/13/2021 | 9:30 am | 2 | GW | ✔ | ✔ | | | | | | | | | X | |
| 6 | ERH1819 (RHSF) | 10/13/2021 | 9:15 am | 2 | DW | ✔ | ✔ | | | | | | | | | X | |
| 7 | ERH1821 (RHSF) | 10/13/2021 | 9:15 am | 2 | DW | ✔ | ✔ | | | | | | | | | X | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

**ELI is REQUIRED to provide preservative traceability** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/14/21 13:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received at Laboratory (print) | Date/Time | Signature |
| | | | | | 10/6/21 1125 | |

**LABORATORY USE ONLY**

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | On Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | 1.6 °C | Y N | Y N | CC Cash Check_____ | $ | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

# Work Order Receipt Checklist

AECOM - Honolulu

B21101306

Login completed by: Taylor K. Burris

Date Received: 10/16/2021

Reviewed by: BL2000\gmccartney

Received by: leb

Reviewed Date: 10/20/2021

Carrier name: FedEx

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all sample bottles? | Yes ☑ | No ☐ | Not Present ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes ☑ | No ☐ | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Applicable ☐ |
| Container/Temp Blank temperature: | °C On Ice | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | Not Applicable ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | Not Applicable ☐ |

## Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## Contact and Corrective Action Comments:

The Temperature Blank temperature for shipping container 1 was 2.0°C (Chain of Custody 1 of 3), shipping container 2 was 1.4°C (Chain of Custody 2 of 3) and shipping container 3 was 1.6°C (Chain of Custody 3 of 3).

The collection time indicated on the Chain of Custody for all samples is in Hawaii-Aleutian Standard Time. The collection time has been converted (+4 Hours) to Mountain Daylight Time.

# Qualifiers and Abbreviations

| Qualifier | Qualifier Description |
|---|---|
| ## | Limit of Quantitation (LOQ) for this analyte exceeds the Maximum Contaminant Level (MCL) |
| * | Result exceeds the Maximum Contaminant Level (MCL) |
| A | The analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated |
| B | Analyte detected in the method blank |
| C | Continuing calibration verification was outside of the quality control advisory limits |
| D | Limit of Quantitation (LOQ) increased due to sample matrix |
| E | Estimated value - result exceeds the instrument upper quantitation limit |
| H | Analysis performed past the method holding time |
| J | The reported result is an estimated value |
| L | Lowest Limit of Quantitation (LOQ) available for the analytical method used |
| N | Analyte concentration was not sufficiently high to calculate a Relative Percent Difference (RPD) for the serial dilution test |
| O | Diluted out |
| P | Poor method performance - method validations have shown no recoveries at low concentrations or method performance was erratic |
| Q | Values reported below the Limit of Quantitation (LOQ) are statistically invalid |
| R | Relative Percent Difference (RPD) exceeds advisory limit |
| S | Spike recovery outside of advisory limits |
| T | Analyte detected in the associated trip blank |
| U | Not detected at the Limit of Detection (LOD) |
| V | The RPD value for this duplicate represents the RER value and the RPDLimit of 2 is the RER upper limit. |

# Qualifiers and Abbreviations

## Abbreviation

| Reporting | Explanation of Abbreviation |
|---|---|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MCL | Maximum Contaminant Level |
| MDC | Minimum Detectable Concentration |
| ND | Not detected at the Limit of Quantitaton (LOQ) |
| RBSL | Risk-Based Screening Levels |
| REC | Recovery |
| RER | Relative Error Ratio |
| RPD | Relative Percent Difference |
| SPK | Spike |

| Sample Types | Explanation of Abbreviation |
|---|---|
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification Standard |
| DUP | Sample Duplicate |
| ICSA | Interference Check Sample A |
| ICSAB | Interference Check Sample AB |
| ICV | Initial Calibration Verification Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LFB | Laboratory Fortified Blank |
| LRB | Laboratory Reagent Blank |
| MBLK | Method Blank |
| MS | Sample Matrix Spike |
| MSD | Sample Matrix Spike Duplicate |
| PDS | Post Digestion/Distillation Spike |
| QCS | Quality Control Sample |
| SD | Serial Dilution |
| SRM | Standard Reference Material |

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1804 (RHMW01R)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21101306-001
**Collection Date:** 10/13/2021 14:48
**Date Received:** 10/16/2021
**Report Date:** 10/26/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.42 | mg/L | 1 | | 0.30 | 0.15 | 0.035 | | SW8015C | 10/21/2021 11:02/amn | GCFID-HP4-B_211019A : 30 | 160450 |
| Diesel Range Organics (SGT-C10 to C24) | 0.063 | mg/L | 1 | J | 0.30 | 0.12 | 0.038 | | SW8015C | 10/21/2021 08:45/amn | GCFID-HP5-B_211020A : 17 | 160450 |
| Oil Range Hydrocarbons (C24 to C40) | 0.19 | mg/L | 1 | J | 0.30 | 0.15 | 0.050 | | SW8015C | 10/21/2021 11:02/amn | GCFID-HP4-B_211019A : 30 | 160450 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.086 | | SW8015C | 10/21/2021 08:45/amn | GCFID-HP5-B_211020A : 17 | 160450 |
| Total Extractable Hydrocarbons | 0.68 | mg/L | 1 | | 0.30 | 0.15 | 0.077 | | SW8015C | 10/21/2021 11:02/amn | GCFID-HP4-B_211019A : 30 | 160450 |
| Total Extractable Hydrocarbons (SGT) | 0.074 | mg/L | 1 | J | 0.30 | 0.12 | 0.032 | | SW8015C | 10/21/2021 08:45/amn | GCFID-HP5-B_211020A : 17 | 160450 |
| Surr: o-Terphenyl | 80.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/21/2021 11:02/amn | GCFID-HP4-B_211019A : 30 | 160450 |
| Surr: o-Terphenyl (SGT) | 59.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/21/2021 08:45/amn | GCFID-HP5-B_211020A : 17 | 160450 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1807 (RHMW02)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21101306-002
**Collection Date:** 10/13/2021 15:57
**Date Received:** 10/16/2021
**Report Date:** 10/26/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 3.5 | mg/L | 1 | | 0.30 | 0.14 | 0.034 | | SW8015C | 10/20/2021 07:26/amn | GCFID-HP4-B_211019A : 18 | 160450 |
| Diesel Range Organics (SGT-C10 to C24) | 0.58 | mg/L | 1 | | 0.30 | 0.12 | 0.037 | | SW8015C | 10/21/2021 05:11/amn | GCFID-HP5-B_211020A : 15 | 160450 |
| Oil Range Hydrocarbons (C24 to C40) | 0.43 | mg/L | 1 | | 0.30 | 0.14 | 0.049 | | SW8015C | 10/20/2021 07:26/amn | GCFID-HP4-B_211019A : 18 | 160450 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.085 | | SW8015C | 10/21/2021 05:11/amn | GCFID-HP5-B_211020A : 15 | 160450 |
| Total Extractable Hydrocarbons | 4.1 | mg/L | 1 | | 0.30 | 0.14 | 0.075 | | SW8015C | 10/20/2021 07:26/amn | GCFID-HP4-B_211019A : 18 | 160450 |
| Total Extractable Hydrocarbons (SGT) | 0.61 | mg/L | 1 | | 0.30 | 0.12 | 0.032 | | SW8015C | 10/21/2021 05:11/amn | GCFID-HP5-B_211020A : 15 | 160450 |
| Surr: o-Terphenyl | 81.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/20/2021 07:26/amn | GCFID-HP4-B_211019A : 18 | 160450 |
| Surr: o-Terphenyl (SGT) | 60.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/21/2021 05:11/amn | GCFID-HP5-B_211020A : 15 | 160450 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1810 (RHMW03)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21101306-003
**Collection Date:** 10/13/2021 16:55
**Date Received:** 10/16/2021
**Report Date:** 10/26/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.12 | mg/L | 1 | J | 0.30 | 0.15 | 0.035 | | SW8015C | 10/20/2021 08:55/amn | GCFID-HP4-B_211019A : 19 | 160450 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.038 | | SW8015C | 10/21/2021 06:36/amn | GCFID-HP5-B_211020A : 16 | 160450 |
| Oil Range Hydrocarbons (C24 to C40) | 0.33 | mg/L | 1 | | 0.30 | 0.15 | 0.050 | | SW8015C | 10/20/2021 08:55/amn | GCFID-HP4-B_211019A : 19 | 160450 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.085 | | SW8015C | 10/21/2021 06:36/amn | GCFID-HP5-B_211020A : 16 | 160450 |
| Total Extractable Hydrocarbons | 0.57 | mg/L | 1 | | 0.30 | 0.15 | 0.076 | | SW8015C | 10/20/2021 08:55/amn | GCFID-HP4-B_211019A : 19 | 160450 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.032 | | SW8015C | 10/21/2021 06:36/amn | GCFID-HP5-B_211020A : 16 | 160450 |
| Surr: o-Terphenyl | 87.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/20/2021 08:55/amn | GCFID-HP4-B_211019A : 19 | 160450 |
| Surr: o-Terphenyl (SGT) | 62.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/21/2021 06:36/amn | GCFID-HP5-B_211020A : 16 | 160450 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1813 (RHMW05)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21101306-004
**Collection Date:** 10/13/2021 13:25
**Date Received:** 10/16/2021
**Report Date:** 10/26/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.059 | mg/L | 1 | J | 0.30 | 0.15 | 0.035 | | SW8015C | 10/21/2021 10:18/amn | GCFID-HP4-B_211019A : 29 | 160450 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.038 | | SW8015C | 10/21/2021 09:27/amn | GCFID-HP5-B_211020A : 18 | 160450 |
| Oil Range Hydrocarbons (C24 to C40) | 0.11 | mg/L | 1 | J | 0.30 | 0.15 | 0.050 | | SW8015C | 10/21/2021 10:18/amn | GCFID-HP4-B_211019A : 29 | 160450 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.085 | | SW8015C | 10/21/2021 09:27/amn | GCFID-HP5-B_211020A : 18 | 160450 |
| Total Extractable Hydrocarbons | 0.19 | mg/L | 1 | J | 0.30 | 0.15 | 0.076 | | SW8015C | 10/21/2021 10:18/amn | GCFID-HP4-B_211019A : 29 | 160450 |
| Total Extractable Hydrocarbons (SGT) | ND | mg/L | 1 | U | 0.30 | 0.12 | 0.032 | | SW8015C | 10/21/2021 09:27/amn | GCFID-HP5-B_211020A : 18 | 160450 |
| Surr: o-Terphenyl | 71.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/21/2021 10:18/amn | GCFID-HP4-B_211019A : 29 | 160450 |
| Surr: o-Terphenyl (SGT) | 61.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/21/2021 09:27/amn | GCFID-HP5-B_211020A : 18 | 160450 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1816 (RHMW2254-01)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21101306-005
**Collection Date:** 10/13/2021 13:30
**Date Received:** 10/16/2021
**Report Date:** 10/26/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.034 | | SW8015C | 10/21/2021 08:03/amn | GCFID-HP4-B_211019A : 26 | 160450 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.049 | | SW8015C | 10/21/2021 08:03/amn | GCFID-HP4-B_211019A : 26 | 160450 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.075 | | SW8015C | 10/21/2021 08:03/amn | GCFID-HP4-B_211019A : 26 | 160450 |
| Surr: o-Terphenyl | 105.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/21/2021 08:03/amn | GCFID-HP4-B_211019A : 26 | 160450 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1819 (RHSF)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21101306-006
**Collection Date:** 10/13/2021 13:15
**Date Received:** 10/16/2021
**Report Date:** 10/26/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.034 | | SW8015C | 10/21/2021 08:48/amn | GCFID-HP4-B_211019A : 27 | 160450 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.048 | | SW8015C | 10/21/2021 08:48/amn | GCFID-HP4-B_211019A : 27 | 160450 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.074 | | SW8015C | 10/21/2021 08:48/amn | GCFID-HP4-B_211019A : 27 | 160450 |
| Surr: o-Terphenyl | 92.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/21/2021 08:48/amn | GCFID-HP4-B_211019A : 27 | 160450 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1821 (RHSF)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21101306-007
**Collection Date:** 10/13/2021 13:15
**Date Received:** 10/16/2021
**Report Date:** 10/26/2021
**Revised Date:** 11/09/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.035 | | SW8015C | 10/21/2021 09:33/amn | GCFID-HP4-B_211019A : 28 | 160450 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.050 | | SW8015C | 10/21/2021 09:33/amn | GCFID-HP4-B_211019A : 28 | 160450 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.077 | | SW8015C | 10/21/2021 09:33/amn | GCFID-HP4-B_211019A : 28 | 160450 |
| Surr: o-Terphenyl | 95.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/21/2021 09:33/amn | GCFID-HP4-B_211019A : 28 | 160450 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/26/2021

**Run ID: Run Order:** GCFID-HP4-B_211019A: 6 **SampType:** Method Blank **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/19/2021 17:52 **Prep Date:** 10/18/2021 16:05
**Lab ID:** MB-160450 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl | 0.19 | 0.0020 | 0.20 | | 95.0 | 56 | 125 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP5-B_211020A: 6 **SampType:** Method Blank **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/20/2021 19:53 **Prep Date:** 10/18/2021 16:05
**Lab ID:** MB-160450 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons (SGT) | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl (SGT) | 0.16 | 0.0020 | 0.20 | | 81.0 | 56 | 125 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/26/2021

**Run ID: Run Order:** GCFID-HP4-B_211019A: 4 **SampType:** Laboratory Control Sample **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/19/2021 16:21 **Prep Date:** 10/18/2021 16:05
**Lab ID:** LCS-160450 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 14 | 0.30 | 15 | | 92.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 99.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.19 | 0.0020 | 0.20 | | 96.0 | 56 | 125 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP4-B_211019A: 5 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/19/2021 17:06 **Prep Date:** 10/18/2021 16:20
**Lab ID:** LCSD-160450 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 14 | 0.30 | 15 | | 96.0 | 36 | 132 | 14 | 4.3 | 20.0 | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 103.0 | 60 | 132 | 15 | 4.4 | 20.0 | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 102.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP4-B_211019A: 10 **SampType:** Laboratory Control Sample **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/19/2021 21:38 **Prep Date:** 10/18/2021 16:05
**Lab ID:** LCS-160450-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.5 | 0.30 | 5.0 | | 90.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.18 | 0.0020 | 0.20 | | 91.0 | 56 | 125 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/26/2021

**Run ID: Run Order:** GCFID-HP4-B_211019A: 11 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/19/2021 23:09 **Prep Date:** 10/18/2021 16:20
**Lab ID:** LCSD-160450-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 94.0 | 41 | 113 | 4.5 | 4.3 | 20.0 | |
| Surr: o-Terphenyl | 0.19 | 0.0020 | 0.20 | | 95.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP5-B_211020A: 4 **SampType:** Laboratory Control Sample **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/20/2021 18:27 **Prep Date:** 10/18/2021 16:05
**Lab ID:** LCS-160450 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 12 | 0.30 | 15 | | 77.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons (SGT) | 12 | 0.30 | 15 | | 82.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl (SGT) | 0.18 | 0.0020 | 0.20 | | 88.0 | 56 | 125 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP5-B_211020A: 5 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/20/2021 19:10 **Prep Date:** 10/18/2021 16:20
**Lab ID:** LCSD-160450 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 12 | 0.30 | 15 | | 81.0 | 36 | 132 | 12 | 5.6 | 20.0 | |
| Total Extractable Hydrocarbons (SGT) | 13 | 0.30 | 15 | | 87.0 | 60 | 132 | 12 | 6.0 | 20.0 | |
| Surr: o-Terphenyl (SGT) | 0.18 | 0.0020 | 0.20 | | 92.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/26/2021

**Run ID: Run Order:** GCFID-HP5-B_211020A: 10 **SampType:** Laboratory Control Sample **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/20/2021 23:28 **Prep Date:** 10/18/2021 16:05
**Lab ID:** LCS-160450-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 3.9 | 0.30 | 5.0 | | 78.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl (SGT) | 0.15 | 0.0020 | 0.20 | | 77.0 | 56 | 125 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP5-B_211020A: 11 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/21/2021 00:54 **Prep Date:** 10/18/2021 16:20
**Lab ID:** LCSD-160450-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 4.3 | 0.30 | 5.0 | | 86.0 | 41 | 113 | 3.9 | 10.0 | 20.0 | |
| Surr: o-Terphenyl (SGT) | 0.17 | 0.0020 | 0.20 | | 84.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP4-B_211019A: 8 **SampType:** Sample Matrix Spike **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/19/2021 19:22 **Prep Date:** 10/18/2021 16:05
**Lab ID:** B21101295-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 13 | 0.31 | 16 | 0.0 | 86.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 14 | 0.31 | 16 | 0.0 | 92.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.19 | 0.0021 | 0.21 | 0.0 | 92.0 | 56 | 125 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/26/2021

**Run ID: Run Order:** GCFID-HP4-B_211019A: 9 **SampType:** Sample Matrix Spike **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/19/2021 20:08 **Prep Date:** 10/18/2021 16:05
**Lab ID:** B21101295-001AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.8 | 0.30 | 4.9 | 0.0 | 98.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl | 0.19 | 0.0020 | 0.20 | 0.0 | 99.0 | 56 | 125 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP5-B_211020A: 8 **SampType:** Sample Matrix Spike **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/20/2021 21:19 **Prep Date:** 10/18/2021 16:05
**Lab ID:** B21101295-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 10 | 0.31 | 16 | 0.0 | 66.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons (SGT) | 11 | 0.31 | 16 | 0.0 | 70.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl (SGT) | 0.17 | 0.0021 | 0.21 | 0.0 | 81.0 | 56 | 125 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP5-B_211020A: 9 **SampType:** Sample Matrix Spike **Batch ID:** 160450
**Method:** SW8015C **Analysis Date:** 10/20/2021 22:02 **Prep Date:** 10/18/2021 16:05
**Lab ID:** B21101295-001AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 4.6 | 0.30 | 4.9 | 0.0 | 94.0 | 41 | 113 | | | | |
| Surr: o-Terphenyl (SGT) | 0.18 | 0.0020 | 0.20 | 0.0 | 91.0 | 56 | 125 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/26/2021

**Run ID: Run Order:** GCFID-HP4-B_211019A: 13 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369017
**Method:** SW8015C **Analysis Date:** 10/20/2021 01:25 **Prep Date:**
**Lab ID:** CCV_1019HP419r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.9 | 0.30 | 5.0 | | 98.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 107.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP4-B_211019A: 14 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369017
**Method:** SW8015C **Analysis Date:** 10/20/2021 02:10 **Prep Date:**
**Lab ID:** CCV_1019HP420r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 108.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 17 | 0.30 | 15 | | 112.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 112.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP4-B_211019A: 21 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369017
**Method:** SW8015C **Analysis Date:** 10/20/2021 12:39 **Prep Date:**
**Lab ID:** CCV_1019HP434r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.0 | 0.30 | 5.0 | | 100.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 107.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/26/2021

**Run ID: Run Order:** GCFID-HP4-B_211019A: 22 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369017
**Method:** SW8015C **Analysis Date:** 10/20/2021 13:24 **Prep Date:**
**Lab ID:** CCV_1019HP435r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 102.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 106.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 106.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP4-B_211019A: 24 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369017
**Method:** SW8015C **Analysis Date:** 10/21/2021 04:31 **Prep Date:**
**Lab ID:** CCV_1019HP455r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.1 | 0.30 | 5.0 | | 101.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 108.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP4-B_211019A: 25 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369017
**Method:** SW8015C **Analysis Date:** 10/21/2021 05:16 **Prep Date:**
**Lab ID:** CCV_1019HP456r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 16 | 0.30 | 15 | | 110.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 17 | 0.30 | 15 | | 114.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.23 | 0.0020 | 0.20 | | 113.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/26/2021

**Run ID: Run Order:** GCFID-HP4-B_211019A: 32 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369017
**Method:** SW8015C **Analysis Date:** 10/21/2021 13:17 **Prep Date:**
**Lab ID:** CCV_1019HP466r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 5.0 | 0.30 | 5.0 | | 101.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 108.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP4-B_211019A: 33 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369017
**Method:** SW8015C **Analysis Date:** 10/21/2021 14:03 **Prep Date:**
**Lab ID:** CCV_1019HP467r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 103.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 107.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 106.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A, B21101306-005A, B21101306-006A, B21101306-007A**

**Run ID: Run Order:** GCFID-HP5-B_211020A: 13 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369031
**Method:** SW8015C **Analysis Date:** 10/21/2021 03:02 **Prep Date:**
**Lab ID:** CCV_1020HP520r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.6 | 0.30 | 5.0 | | 93.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 102.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/26/2021

**Run ID: Run Order:** GCFID-HP5-B_211020A: 14 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369031
**Method:** SW8015C **Analysis Date:** 10/21/2021 03:45 **Prep Date:**
**Lab ID:** CCV_1020HP521r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 101.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 105.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 103.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A**

**Run ID: Run Order:** GCFID-HP5-B_211020A: 20 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369031
**Method:** SW8015C **Analysis Date:** 10/21/2021 11:35 **Prep Date:**
**Lab ID:** CCV_1020HP532r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 94.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 103.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A**

**Run ID: Run Order:** GCFID-HP5-B_211020A: 21 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369031
**Method:** SW8015C **Analysis Date:** 10/21/2021 12:17 **Prep Date:**
**Lab ID:** CCV_1020HP533r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 99.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 103.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.20 | 0.0020 | 0.20 | | 102.0 | 80 | 120 | | | | |

Associated Samples: **B21101306-001A, B21101306-002A, B21101306-003A, B21101306-004A**

# Analytical QC Exceptions Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306
**Project:** CV_18F0126/60571032.02.20.01

**Revised Date:** 11/09/2021
**Report Date:** 10/26/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.

# Preparation and Analysis Dates Report

**Work Order:** B21101306
**Client:** AECOM - Honolulu
**Project Name:** CV_18F0126/60571032.02.20.01

**Date Revised:** 11/09/2021
**Report Date:** 10/26/2021

| Lab ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Method | Prep Date | Prep Batch | Analysis Method | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | ERH1804 (RHMW01R) | 10/13/2021 14:48 | Ground Water | Diesel Range Organics | | SW3520C | 10/19/2021 11:43 | 160450 | SW8015C | 10/21/2021 08:45 |
| | | | | | | SW3520C | 10/19/2021 11:43 | 160450 | SW8015C | 10/21/2021 11:02 |
| 002A | ERH1807 (RHMW02) | 10/13/2021 15:57 | Ground Water | Diesel Range Organics | | SW3520C | 10/18/2021 16:20 | 160450 | SW8015C | 10/20/2021 07:26 |
| | | | | | | SW3520C | 10/18/2021 16:20 | 160450 | SW8015C | 10/21/2021 05:11 |
| 003A | ERH1810 (RHMW03) | 10/13/2021 16:55 | Ground Water | Diesel Range Organics | | SW3520C | 10/18/2021 16:20 | 160450 | SW8015C | 10/20/2021 08:55 |
| | | | | | | SW3520C | 10/18/2021 16:20 | 160450 | SW8015C | 10/21/2021 06:36 |
| 004A | ERH1813 (RHMW05) | 10/13/2021 13:25 | Ground Water | Diesel Range Organics | | SW3520C | 10/18/2021 16:20 | 160450 | SW8015C | 10/21/2021 09:27 |
| | | | | | | SW3520C | 10/18/2021 16:20 | 160450 | SW8015C | 10/21/2021 10:18 |
| 005A | ERH1816 (RHMW2254-01) | 10/13/2021 13:30 | Ground Water | Diesel Range Organics | | SW3520C | 10/19/2021 11:43 | 160450 | SW8015C | 10/21/2021 08:03 |
| 006A | ERH1819 (RHSF) | 10/13/2021 13:15 | Drinking Water | Diesel Range Organics | | SW3520C | 10/19/2021 11:43 | 160450 | SW8015C | 10/21/2021 08:48 |
| 007A | ERH1821 (RHSF) | 10/13/2021 13:15 | Drinking Water | Diesel Range Organics | | SW3520C | 10/19/2021 11:43 | 160450 | SW8015C | 10/21/2021 09:33 |

# Chemical Abstracts Service (CAS) Registry Numbers

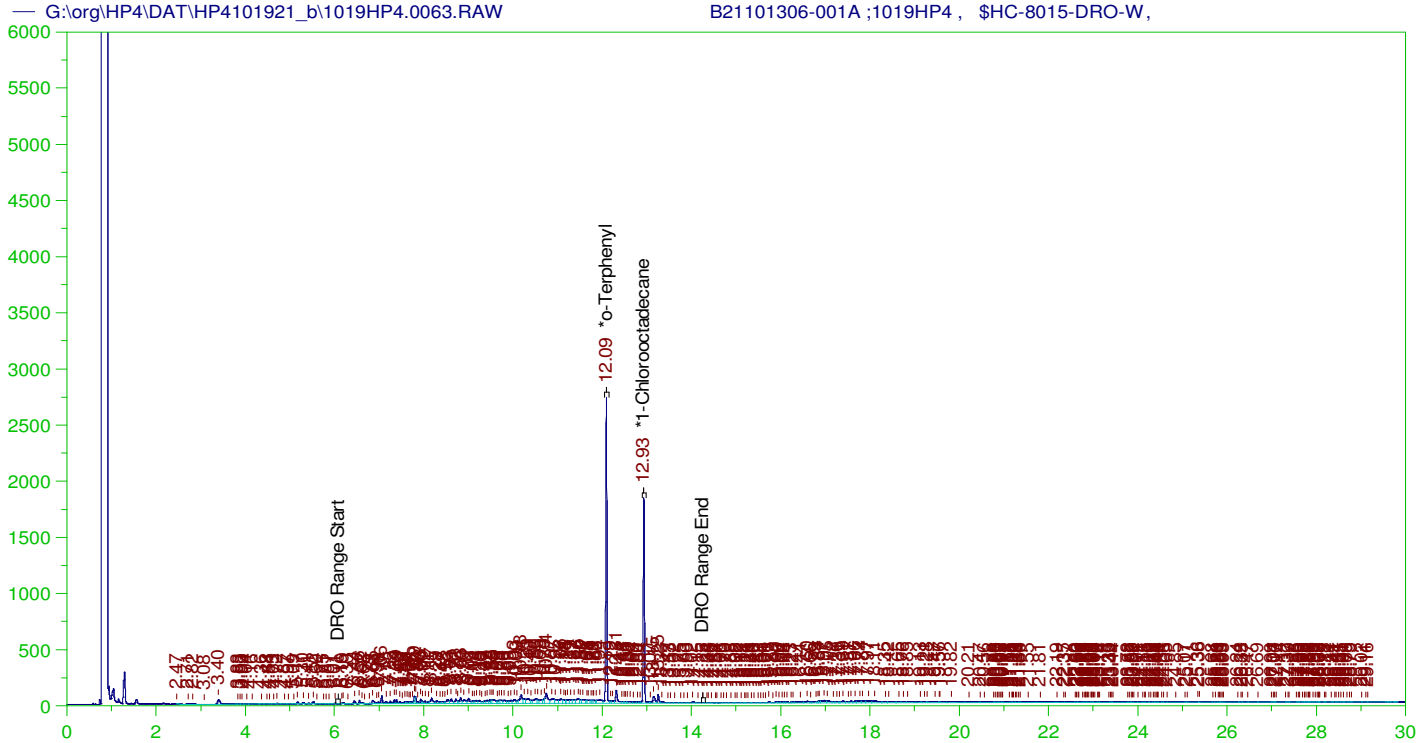
Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101306 **Revised Date:** 11/09/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 10/26/2021

| Analyses | CAS No |
|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | |
| Diesel Range Organics (C10 to C24) | |
| Diesel Range Organics (SGT-C10 to C24) | |
| Oil Range Hydrocarbons (C24 to C40) | |
| Oil Range Hydrocarbons (SGT-C24 to C40) | |
| Total Extractable Hydrocarbons | |
| Total Extractable Hydrocarbons (SGT) | |

**ERH1804 (RHMW01R)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0063.RAW B21101306-001A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

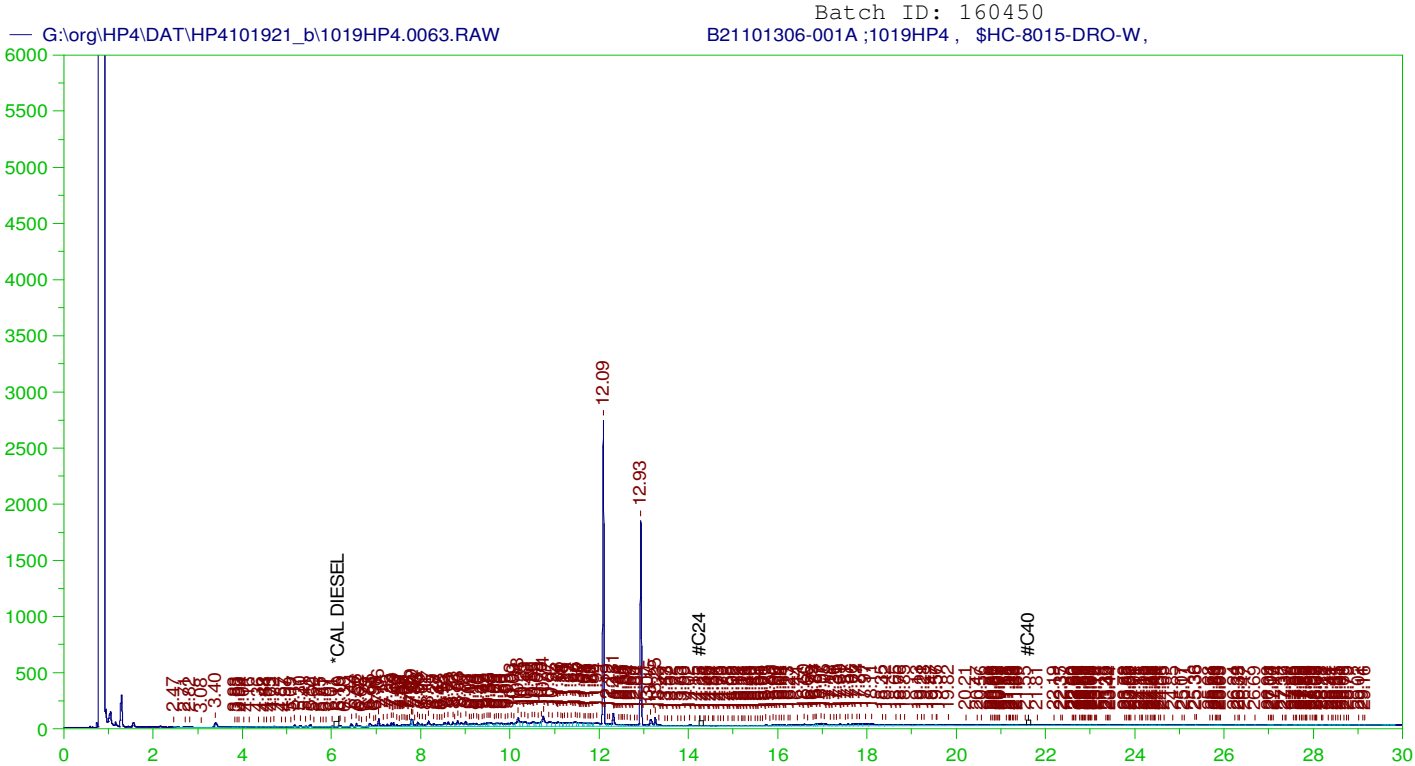
Sample Name: B21101306-001A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0063.RAW
Date & Time Acquired: 10/21/2021 11:02:41 AM
Method File: G:\Org\HP4\methods\D3_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.089 | .196 | .163 | 83.28 | - |
| *1-Chlorooctadecane | 12.928 | .196 | .117 | 59.52 | - |

DRO Area:1.123882E+07 DRO Amount: 0.4233055
TEH Area:1.812019E+07 TEH Amount: 0.6824896

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-001A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0063.RAW
Date & Time Acquired: 10/21/2021 11:02:41 AM
Method File: G:\Org\HP4\methods\D3_8015-OILS-101929-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

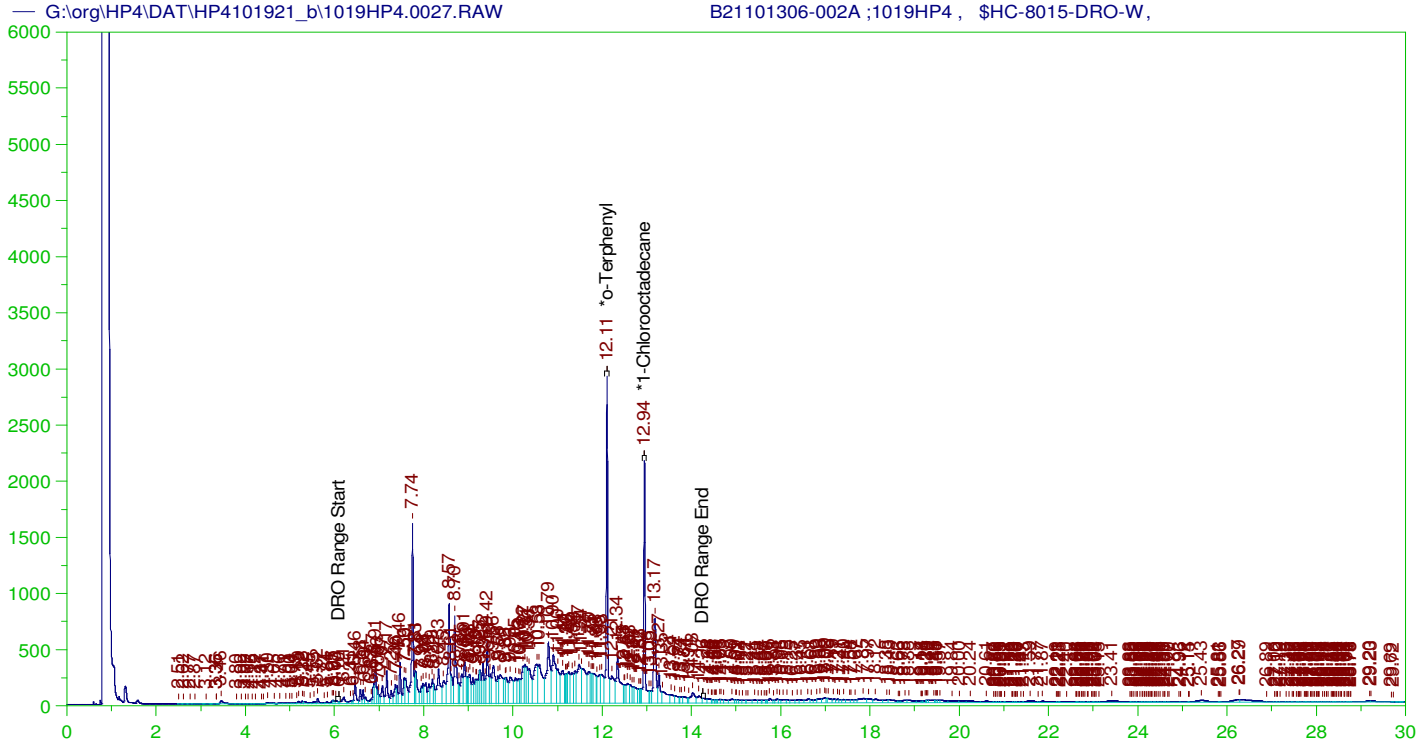
Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:4679657 RRO AMOUNT: 0.1870355

**ERH1807 (RHMW02)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0027.RAW B21101306-002A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

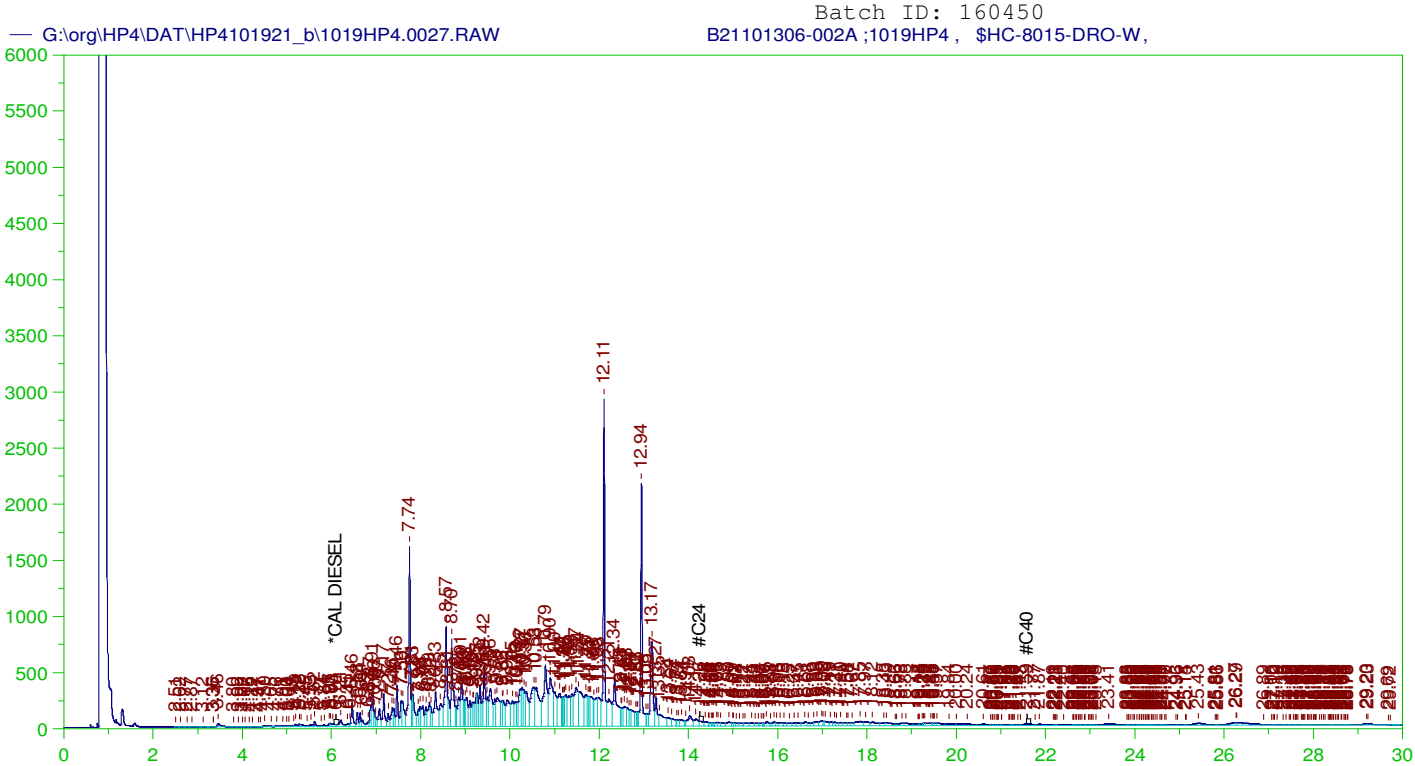
Sample Name: B21101306-002A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0027.RAW
Date & Time Acquired: 10/20/2021 7:26:05 AM
Method File: G:\Org\HP4\methods\D3_8015-24-101927-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.106 | .192 | .211 | 109.52 | - |
| *1-Chlorooctadecane | 12.943 | .192 | .158 | 82.29 | - |

DRO Area:9.499726E+07 DRO Amount: 3.509224
TEH Area:1.105204E+08 TEH Amount: 4.082652

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-002A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0027.RAW
Date & Time Acquired: 10/20/2021 7:26:05 AM
Method File: G:\Org\HP4\methods\D3_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

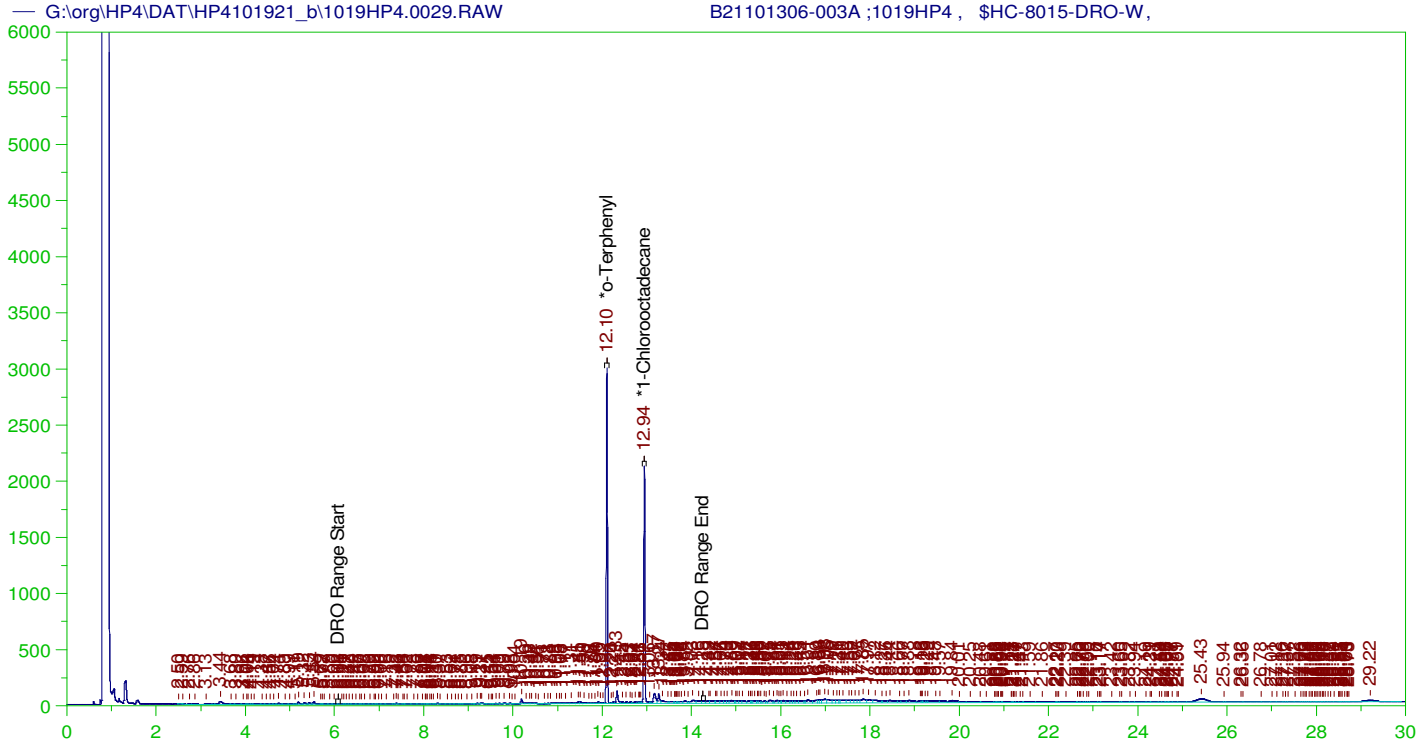
Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:1.090794E+07 RRO AMOUNT: 0.4275824

**ERH1810 (RHMW03)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0029.RAW B21101306-003A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

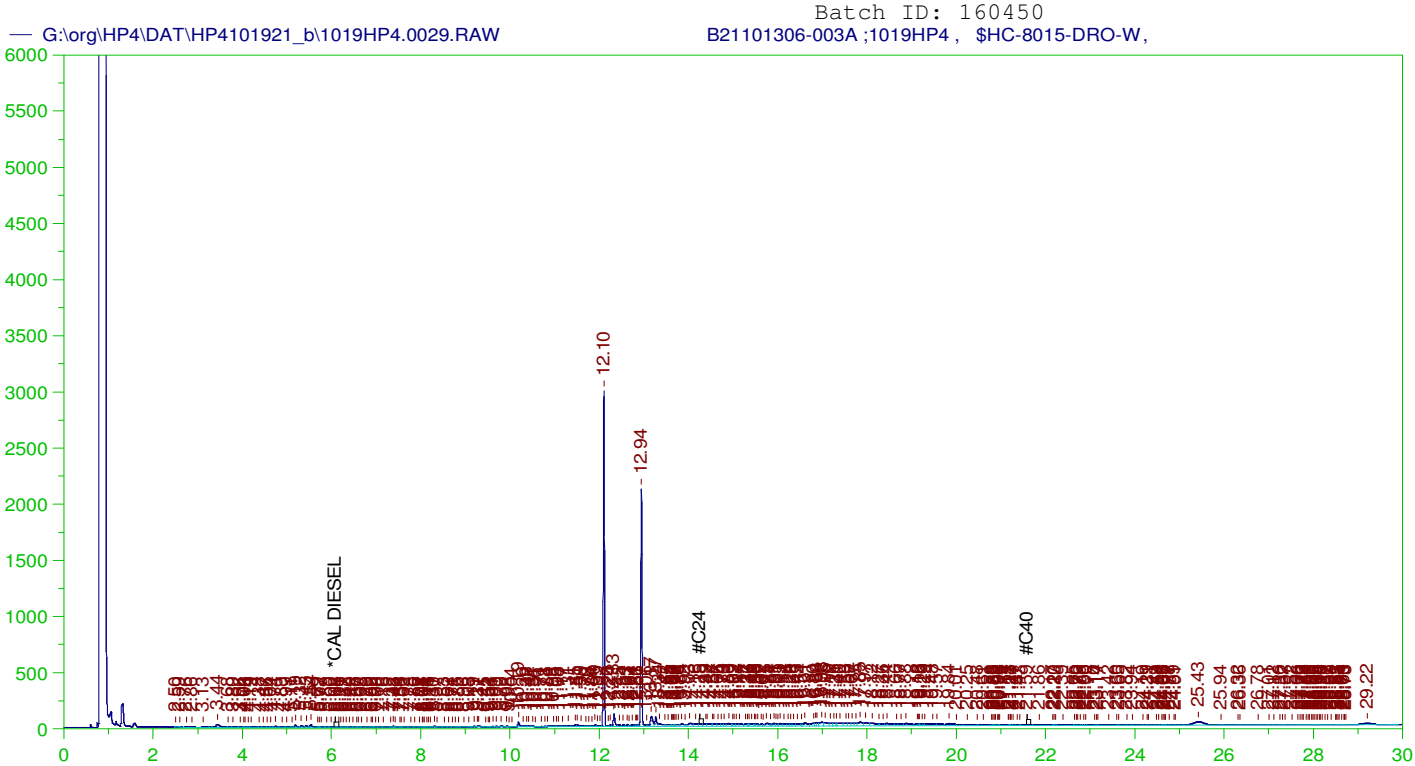
Sample Name: B21101306-003A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0029.RAW
Date & Time Acquired: 10/20/2021 8:55:20 AM
Method File: G:\Org\HP4\methods\D3_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.102 | .194 | .17 | 87.71 | - |
| *1-Chlorooctadecane | 12.941 | .194 | .133 | 68.52 | - |

DRO Area:3287381 DRO Amount: 0.1226157
TEH Area:1.515567E+07 TEH Amount: 0.5652899

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-003A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0029.RAW
Date & Time Acquired: 10/20/2021 8:55:20 AM
Method File: G:\Org\HP4\methods\D3_8015-OILS-101929-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

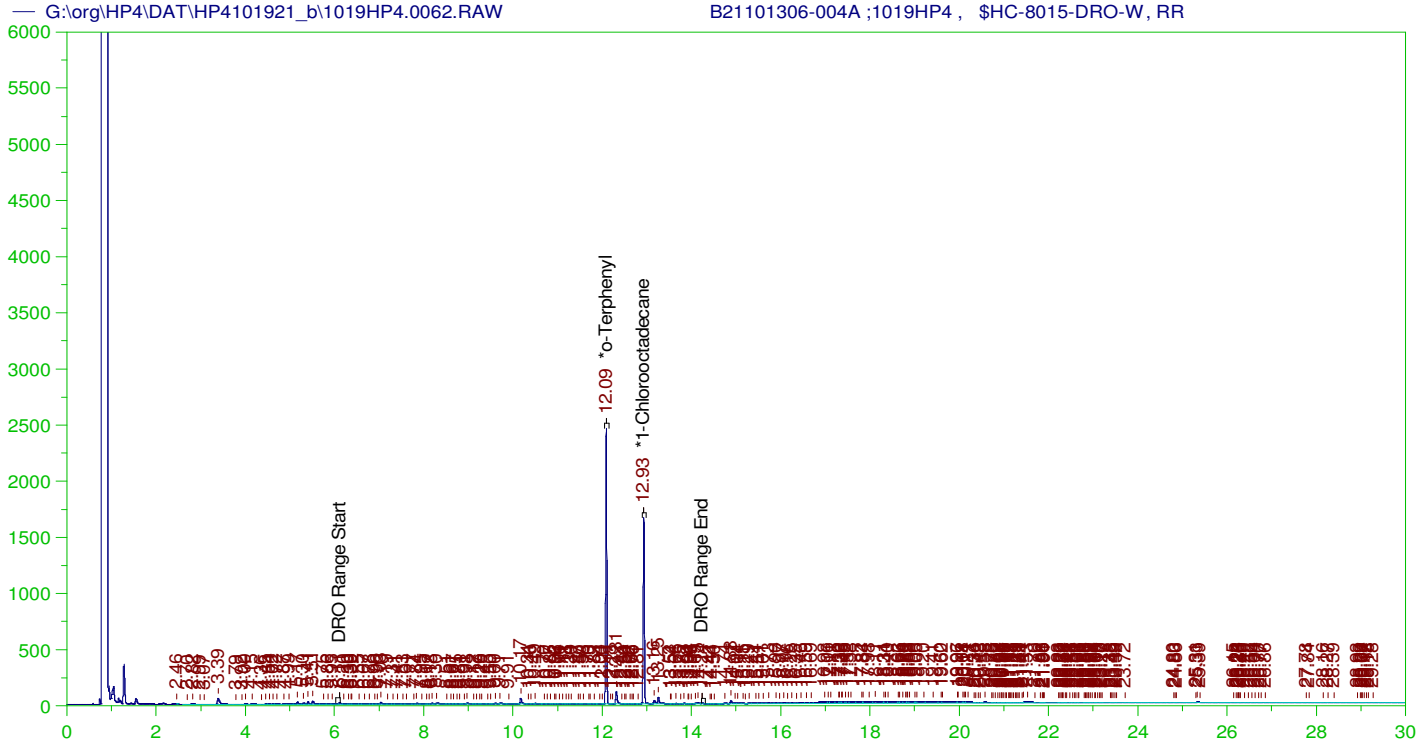
Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:8359835 RRO AMOUNT: 0.3308801

**ERH1813 (RHMW05)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0062.RAW B21101306-004A ;1019HP4 , $HC-8015-DRO-W, RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

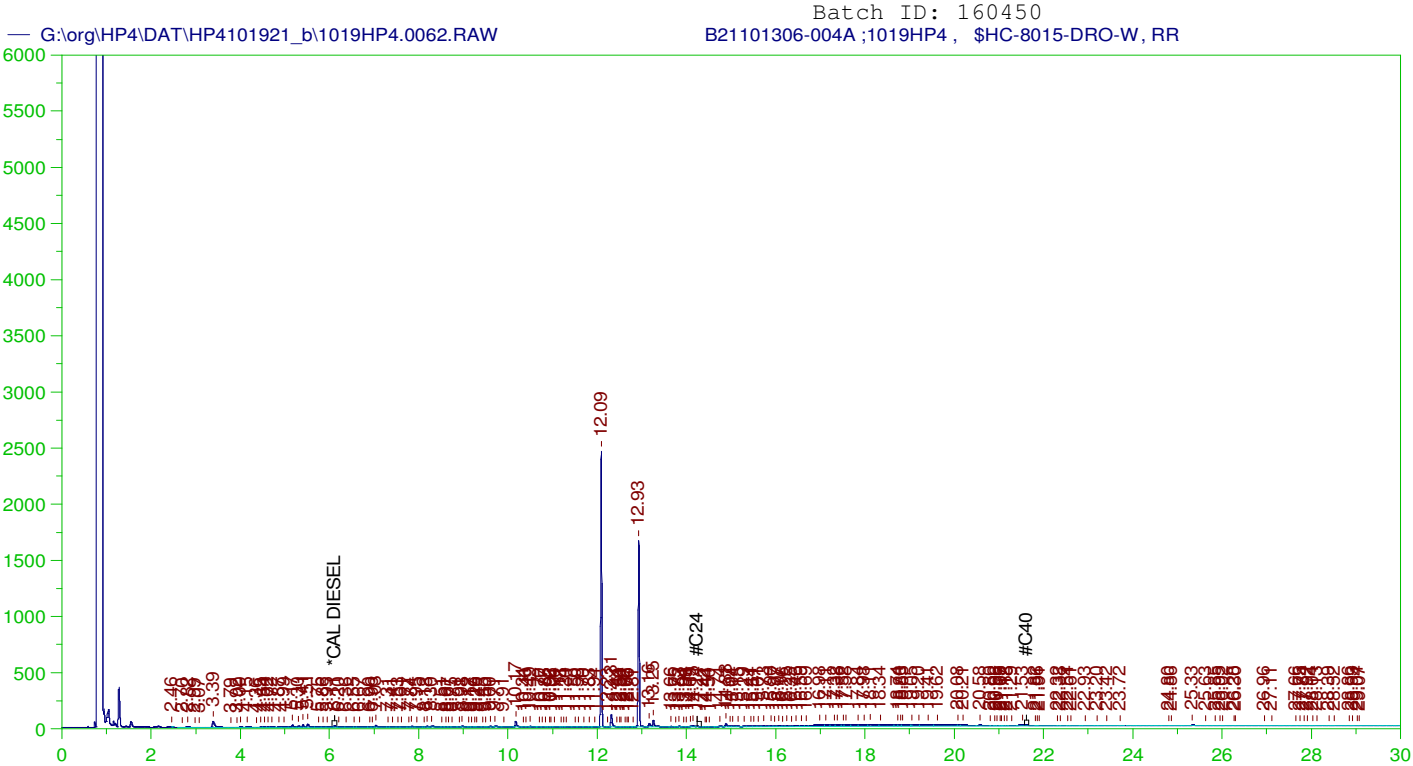
Sample Name: B21101306-004A ;1019HP4 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0062.RAW
Date & Time Acquired: 10/21/2021 10:18:00 AM
Method File: G:\Org\HP4\methods\DR_8015-101962-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.087 | .194 | .139 | 71.39 | - |
| *1-Chlorooctadecane | 12.927 | .194 | .101 | 52.21 | - |

DRO Area:1583107 DRO Amount: 5.904817E-02
TEH Area:5067591 TEH Amount: 0.1890156

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-004A ;1019HP4 , $HC-8015-DRO-W, RR
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0062.RAW
Date & Time Acquired: 10/21/2021 10:18:00 AM
Method File: G:\Org\HP4\methods\DR_8015-101962-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

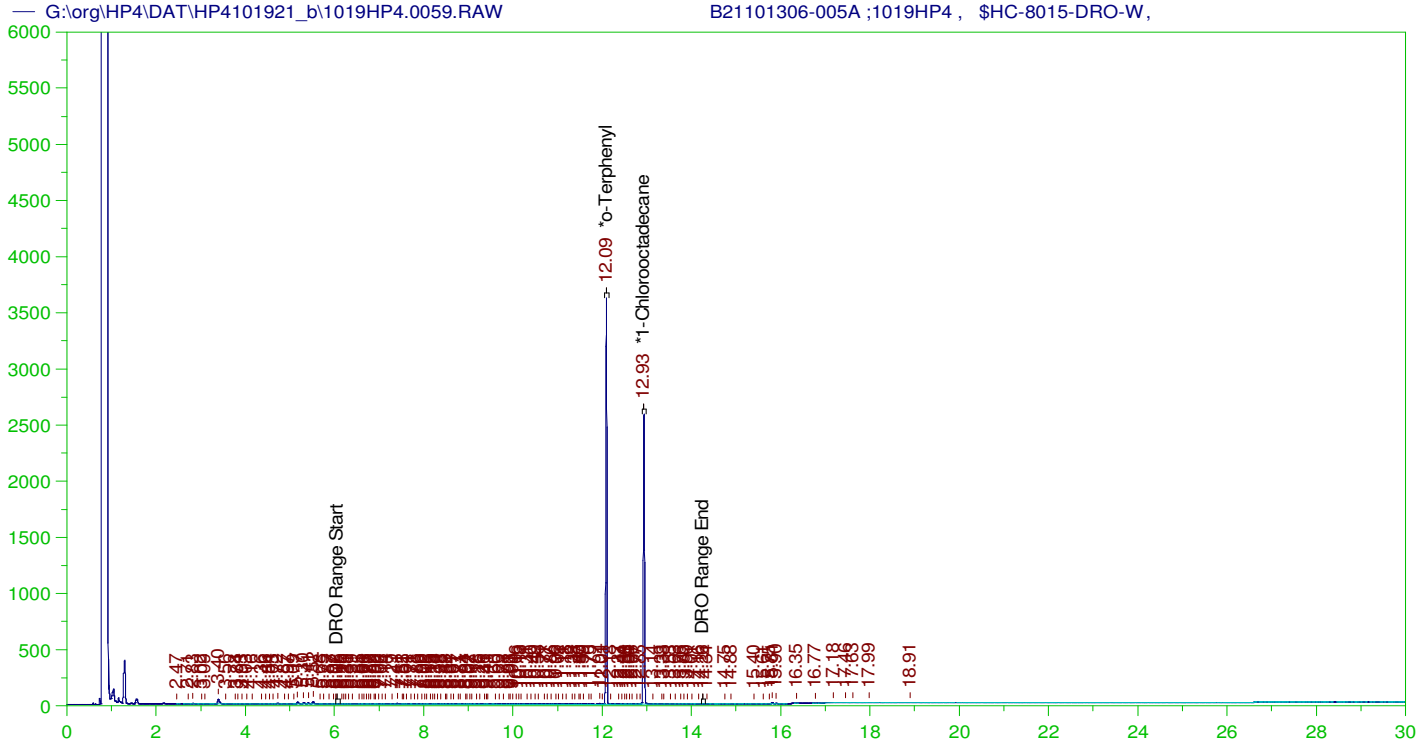
Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:2655942 RRO AMOUNT: 0.1051215

**ERH1816 (RHMW2254-01)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0059.RAW B21101306-005A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

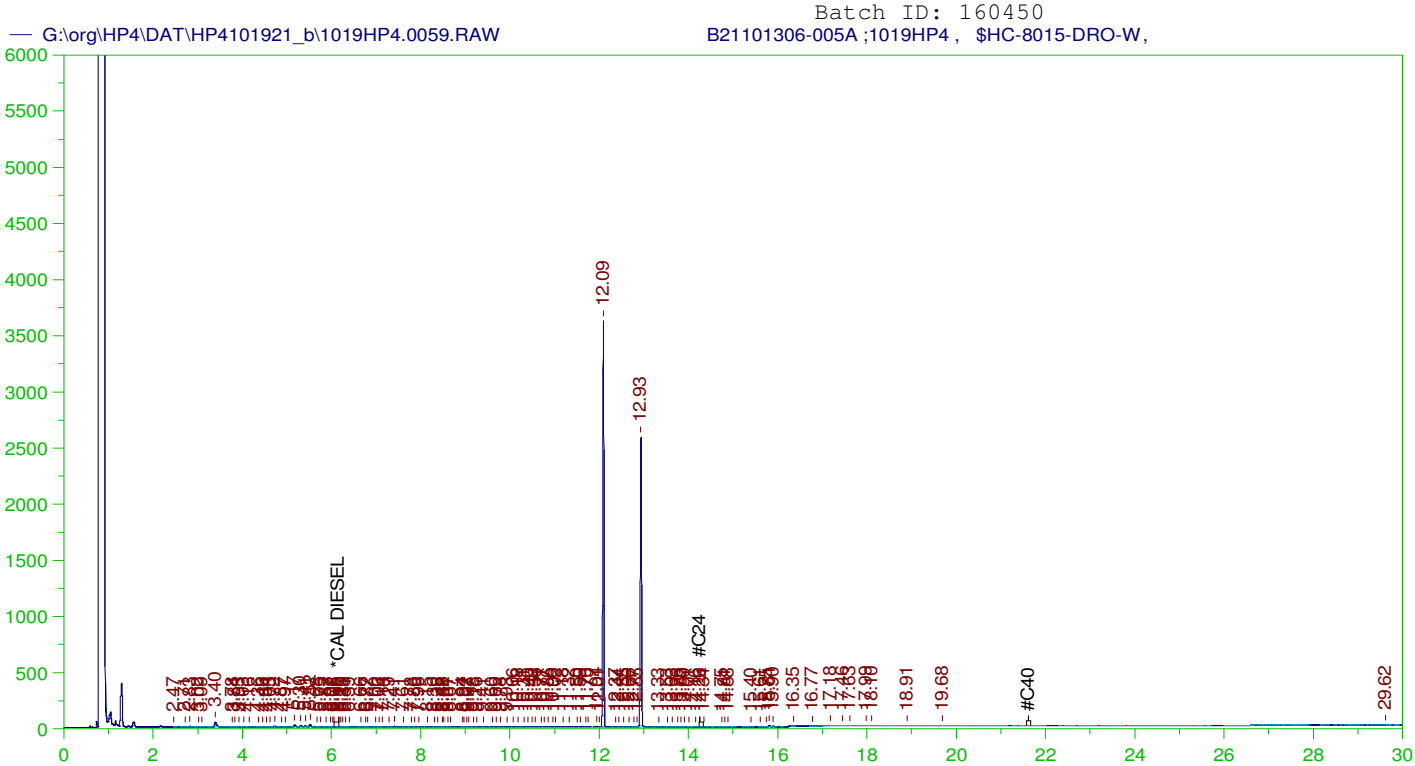
Sample Name: B21101306-005A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0059.RAW
Date & Time Acquired: 10/21/2021 8:03:31 AM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.09 | .192 | .202 | 105.04 | - |
| *1-Chlorooctadecane | 12.931 | .192 | .157 | 81.87 | - |

DRO Area:420803.2 DRO Amount: 1.554458E-02
TEH Area:1008427 TEH Amount: 3.725155E-02

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-005A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0059.RAW
Date & Time Acquired: 10/21/2021 8:03:31 AM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

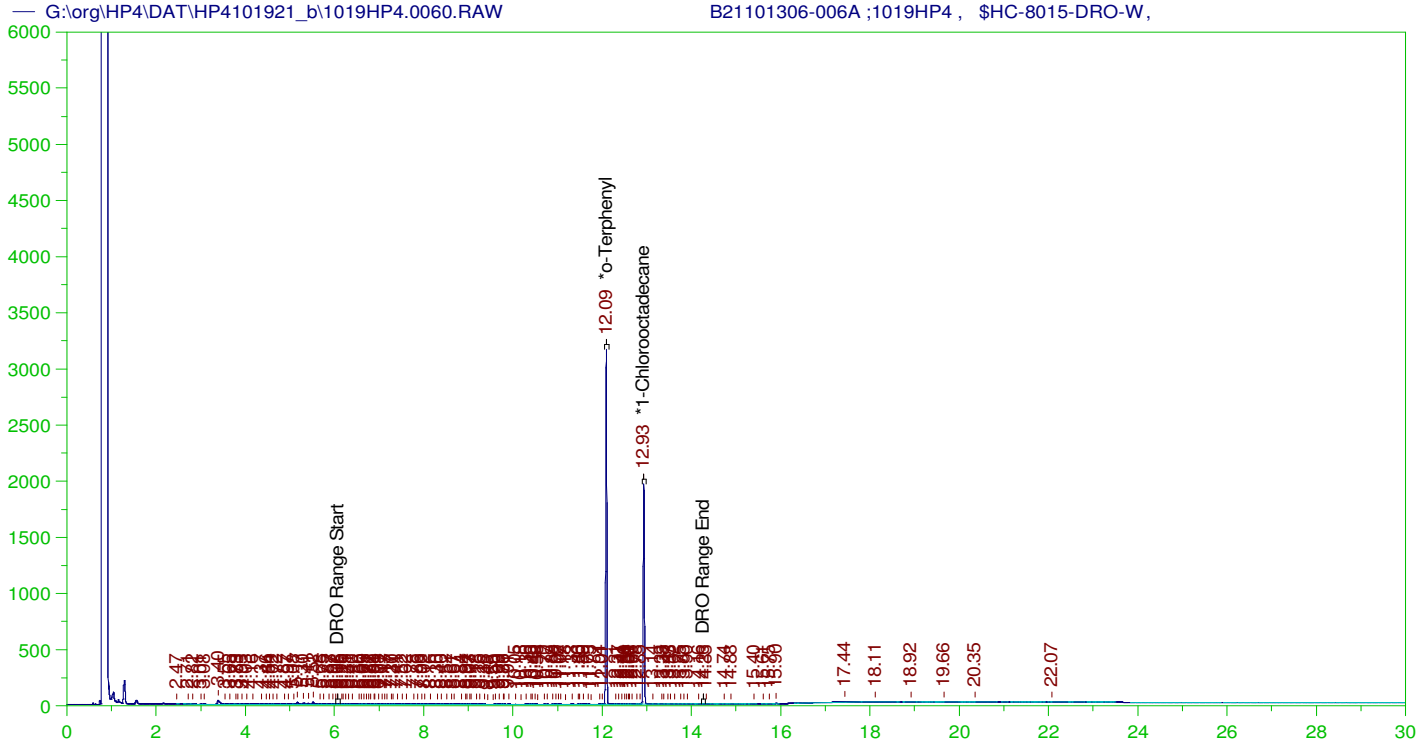
Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:69190.7 RRO AMOUNT: 2.712218E-03

**ERH1819 (RHSF)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0060.RAW B21101306-006A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

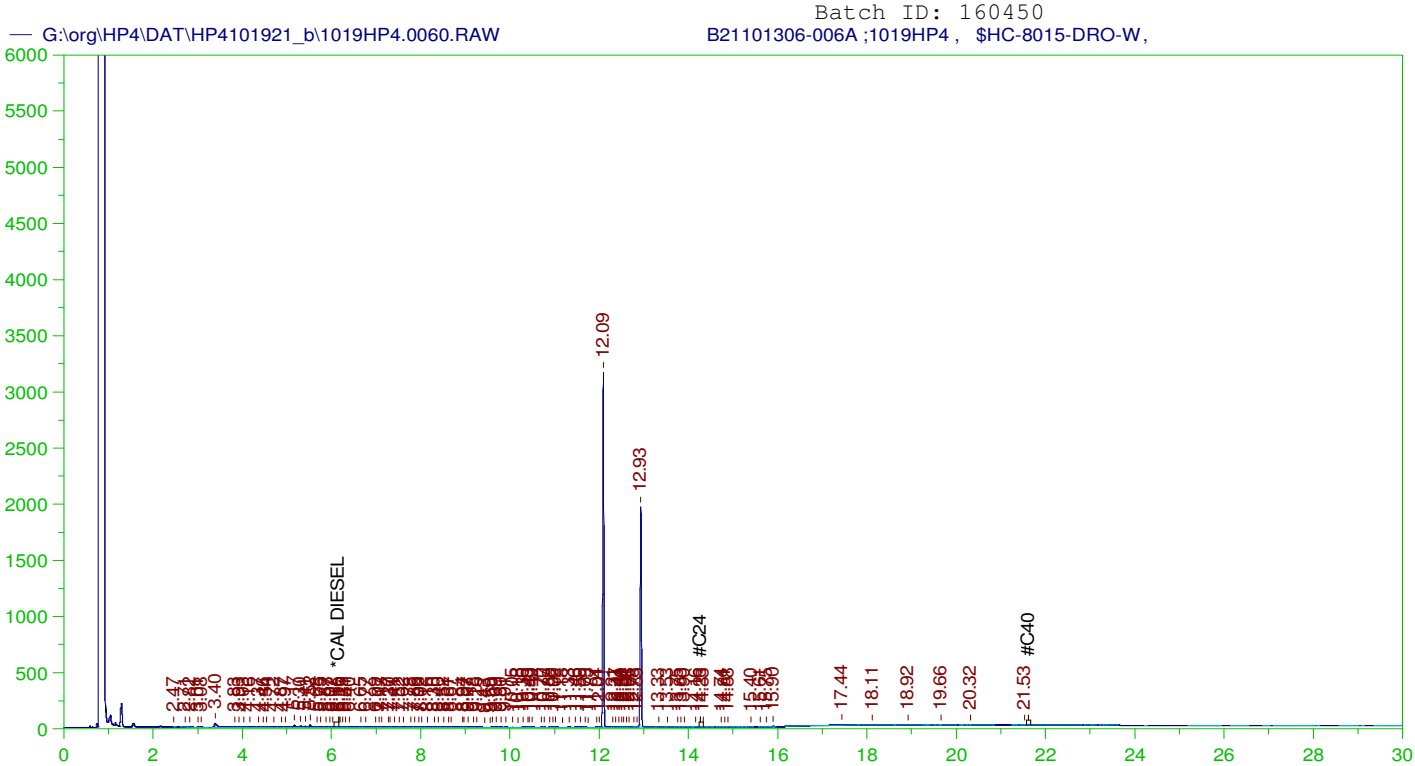
Sample Name: B21101306-006A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0060.RAW
Date & Time Acquired: 10/21/2021 8:48:20 AM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.088 | .189 | .174 | 92.27 | - |
| *1-Chlorooctadecane | 12.927 | .189 | .117 | 62.16 | - |

DRO Area:336783.1 DRO Amount: 1.220612E-02
TEH Area:1024167 TEH Amount: 3.711918E-02

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-006A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0060.RAW
Date & Time Acquired: 10/21/2021 8:48:20 AM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

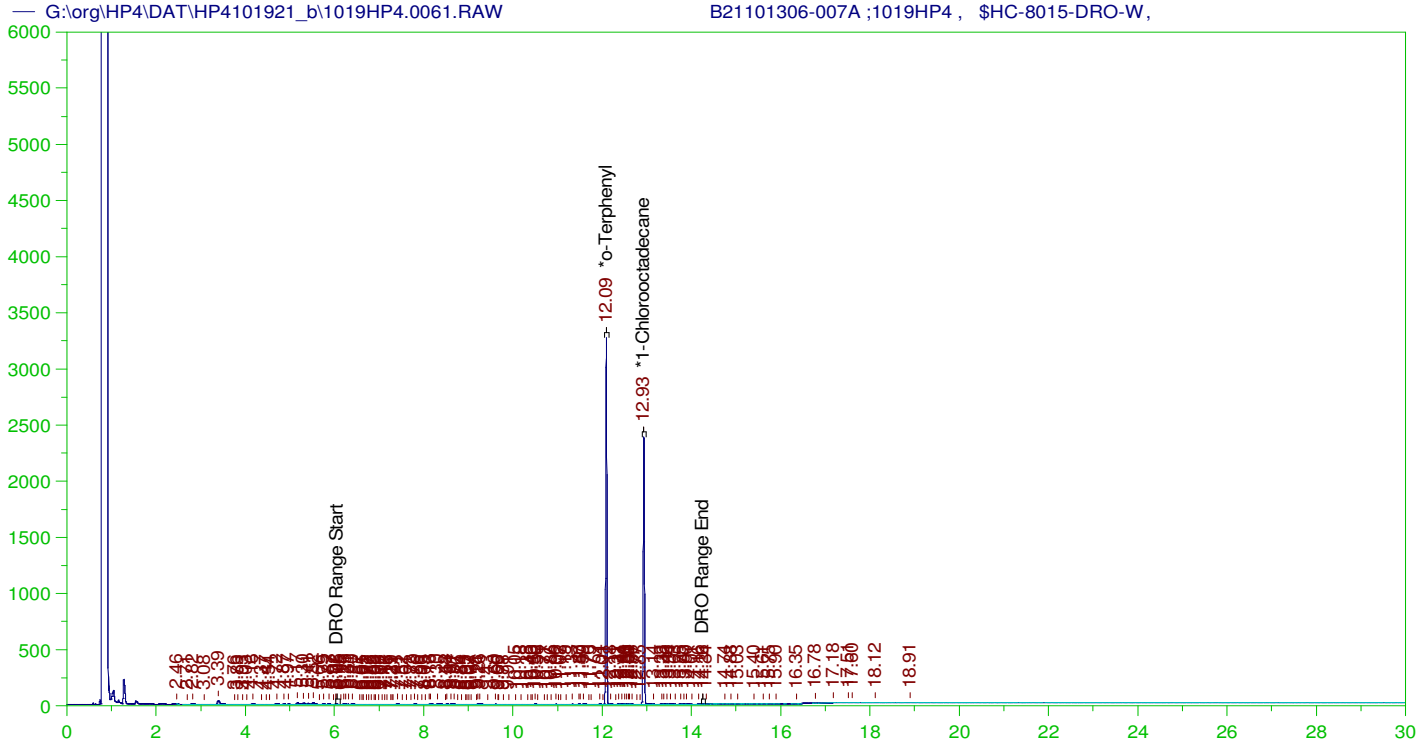
Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:298234 RRO AMOUNT: 1.146995E-02

**ERH1821 (RHSF)** Batch ID: 160450

— G:\org\HP4\DAT\HP4101921_b\1019HP4.0061.RAW B21101306-007A ;1019HP4 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

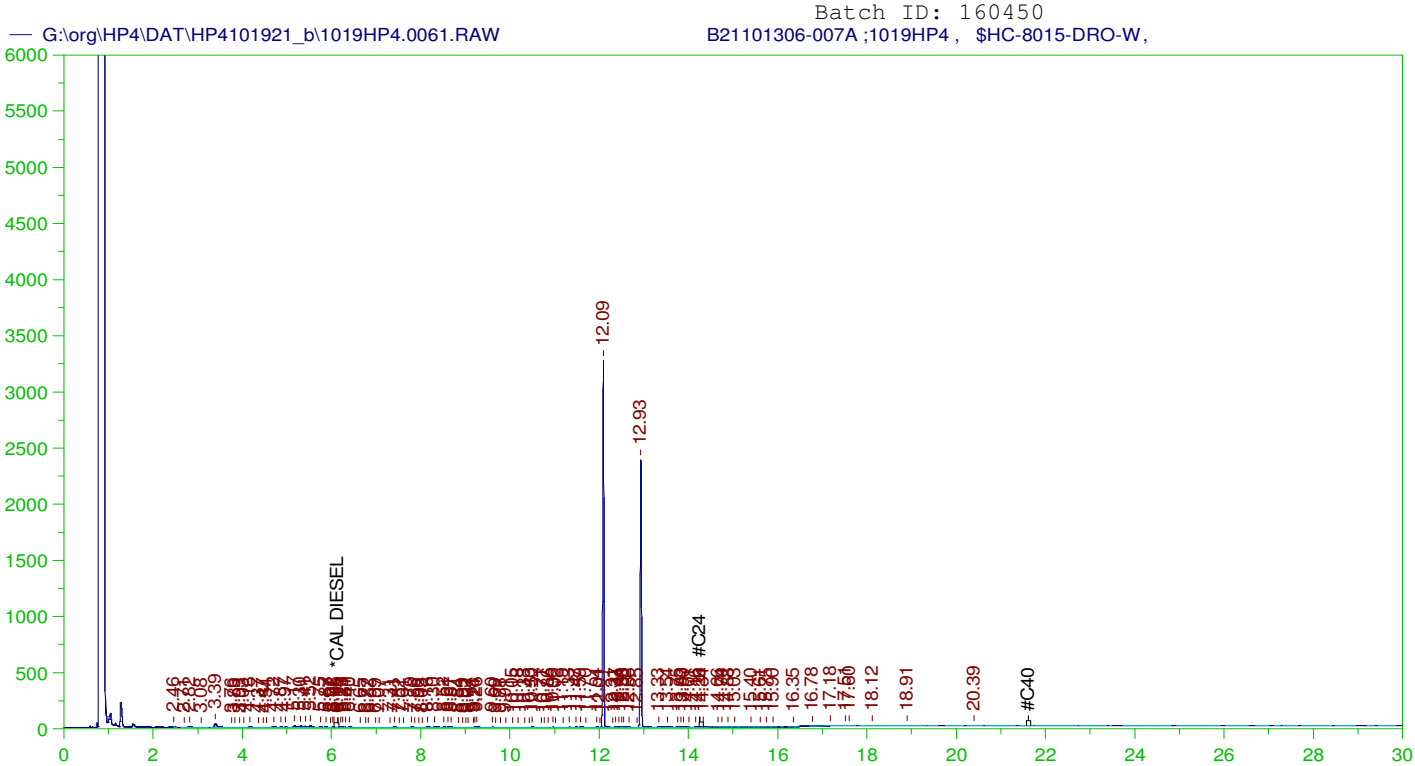
Sample Name: B21101306-007A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0061.RAW
Date & Time Acquired: 10/21/2021 9:33:10 AM
Method File: G:\Org\HP4\methods\DR_8015-24-NA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204NA-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
Rt range for Diesel Range Organics: 6.03 to 14.32

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.089 | .196 | .187 | 95.53 | - |
| *1-Chlorooctadecane | 12.929 | .196 | .149 | 75.84 | - |

DRO Area:375696.2 DRO Amount: 1.415044E-02
TEH Area:823018.4 TEH Amount: 3.099865E-02

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-007A ;1019HP4 , $HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4101921_b\1019HP4.0061.RAW
Date & Time Acquired: 10/21/2021 9:33:10 AM
Method File: G:\Org\HP4\methods\DR_8015-OILS-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AC-SAMPLE.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

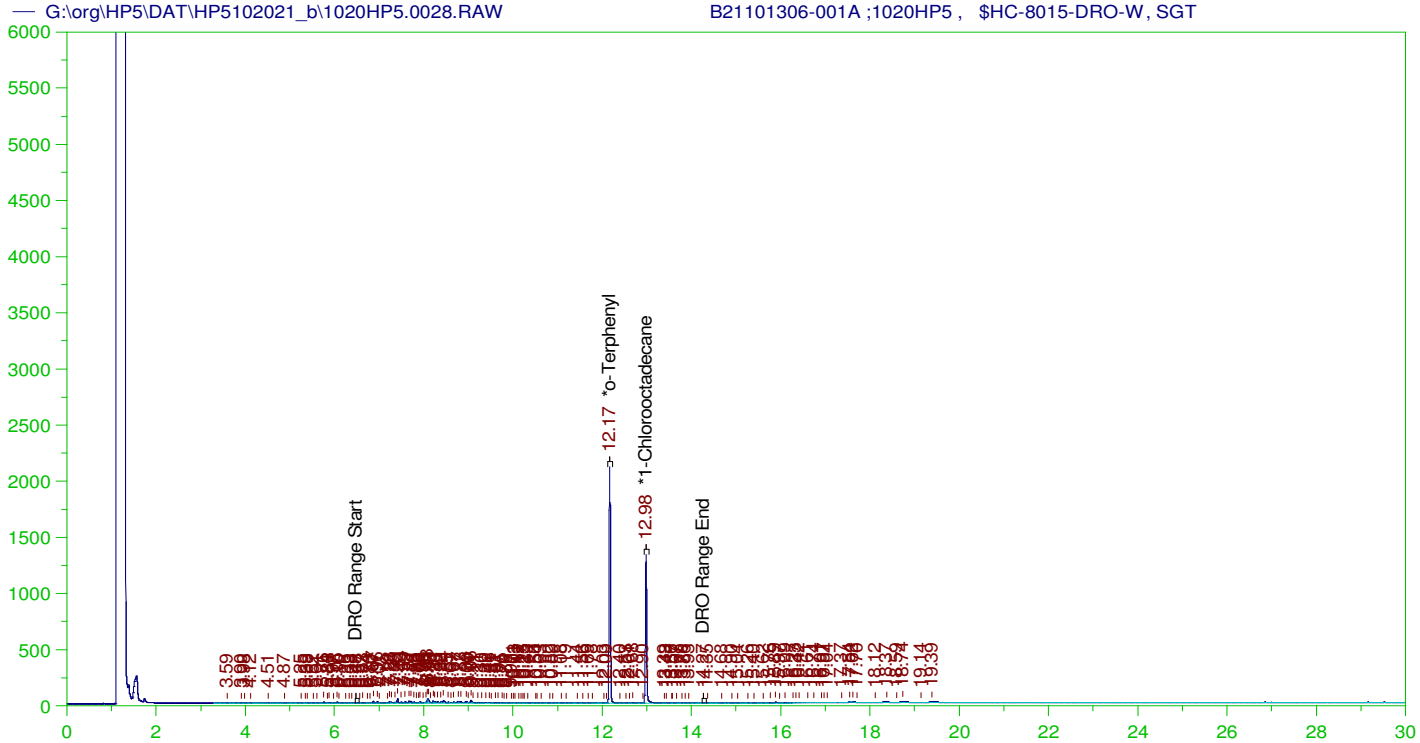
Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.23 to 21.67

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:44420.41 RRO AMOUNT: 1.775385E-03

**ERH1804 (RHMW01R)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0028.RAW B21101306-001A ;1020HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

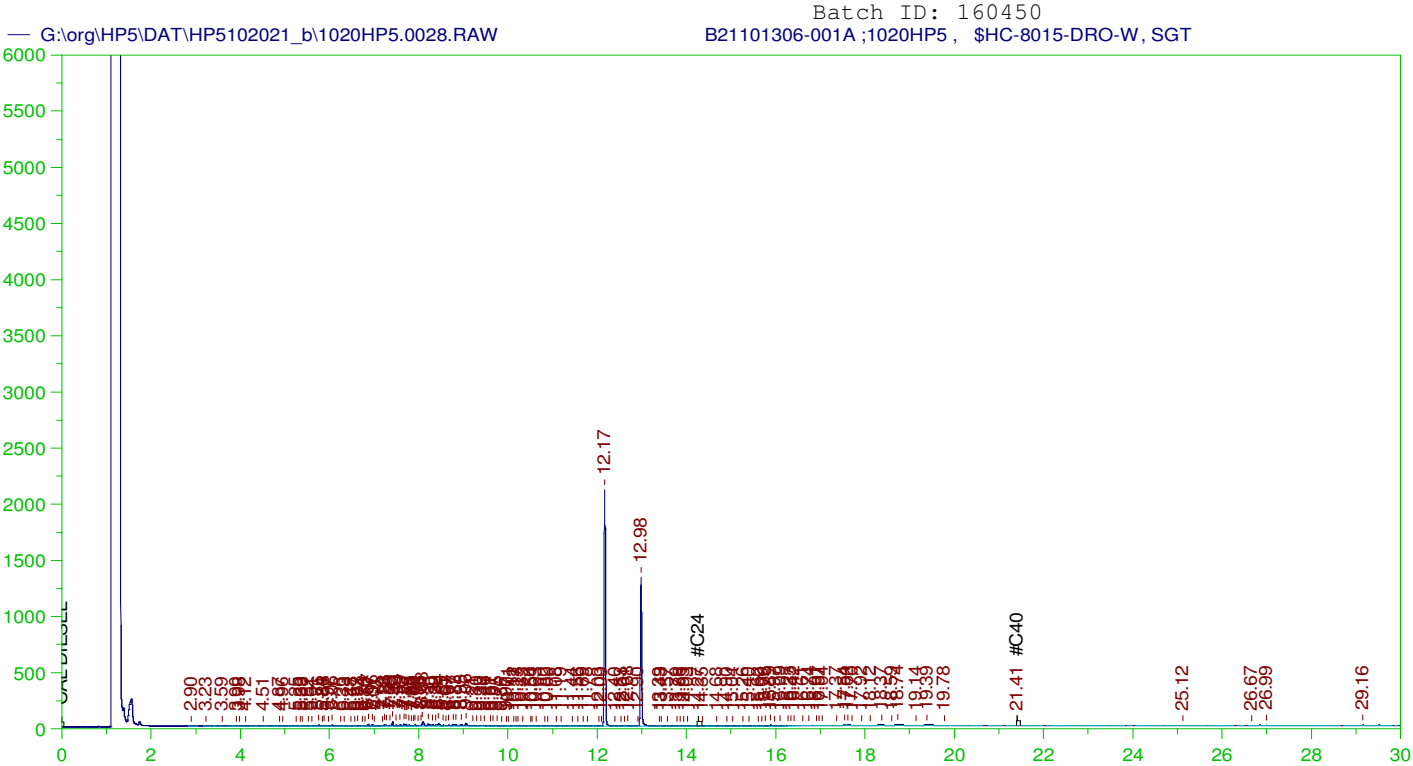
Sample Name: B21101306-001A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0028.RAW
Date & Time Acquired: 10/21/2021 8:45:08 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .196 | .116 | 59.22 | - |
| *1-Chlorooctadecane | 12.98 | .196 | .085 | 43.4 | - |

DRO Area:1890710 DRO Amount: 6.292618E-02
TEH Area:2219638 TEH Amount: 7.387348E-02

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-001A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0028.RAW
Date & Time Acquired: 10/21/2021 8:45:08 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

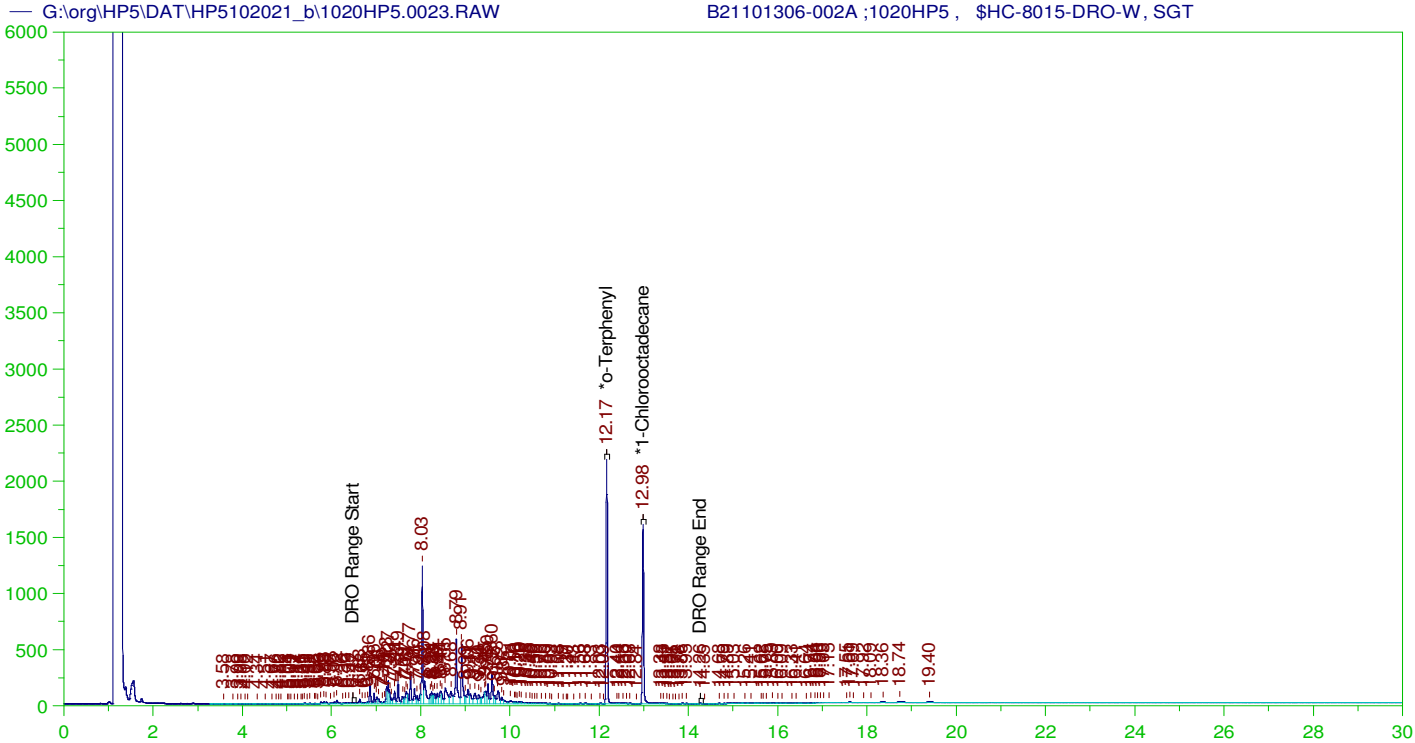
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.24 to 21.49

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:177223.6 RRO AMOUNT: 6.087386E-03

**ERH1807 (RHMW02)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0023.RAW B21101306-002A ;1020HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

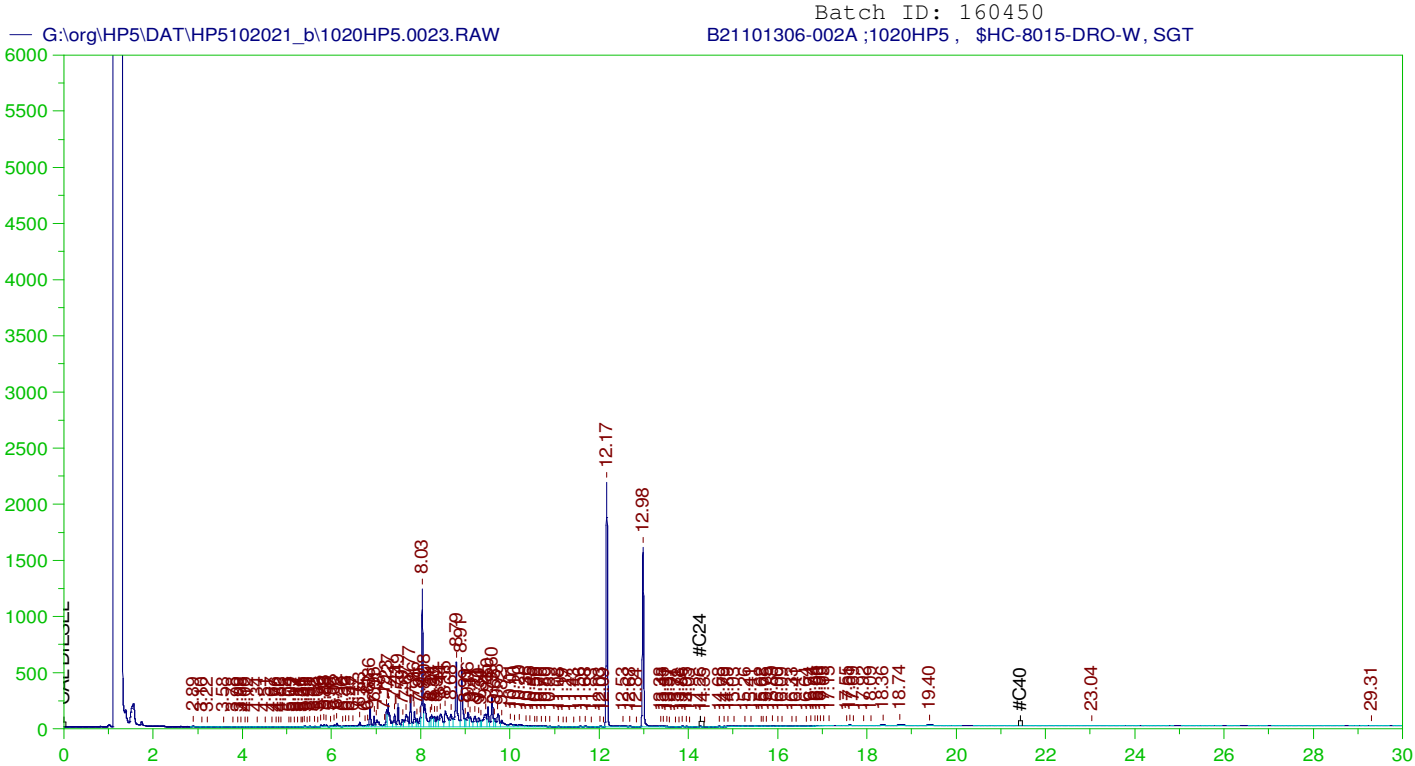
Sample Name: B21101306-002A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0023.RAW
Date & Time Acquired: 10/21/2021 5:11:12 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.167 | .192 | .117 | 60.89 | - |
| *1-Chlorooctadecane | 12.979 | .192 | .099 | 51.64 | - |

DRO Area:1.787766E+07 DRO Amount: 0.583558
TEH Area:1.856678E+07 TEH Amount: 0.606052

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-002A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0023.RAW
Date & Time Acquired: 10/21/2021 5:11:12 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

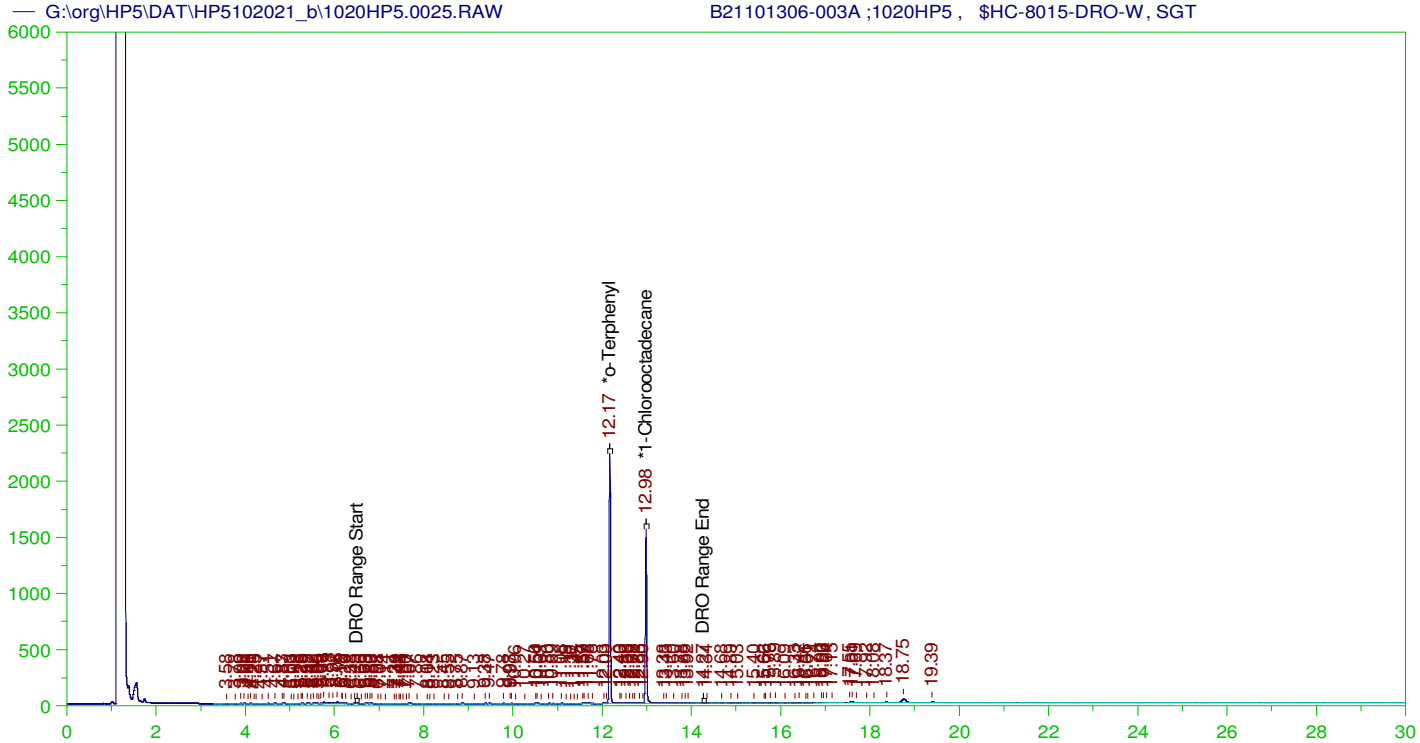
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.24 to 21.49

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:291324.2 RRO AMOUNT: 9.814148E-03

**ERH1810 (RHMW03)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0025.RAW B21101306-003A ;1020HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

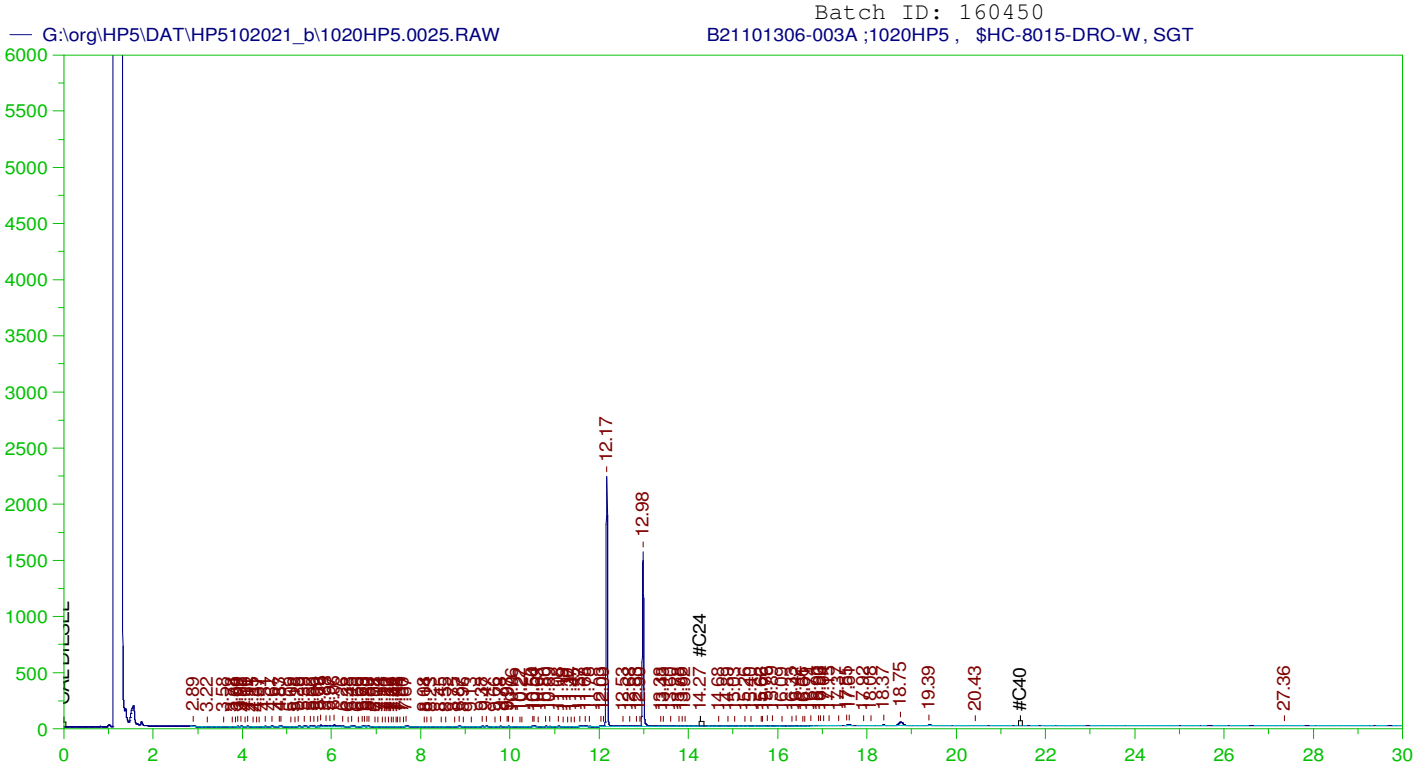
Sample Name: B21101306-003A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0025.RAW
Date & Time Acquired: 10/21/2021 6:36:46 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.168 | .194 | .121 | 62.44 | - |
| *1-Chlorooctadecane | 12.98 | .194 | .097 | 50.01 | - |

DRO Area:235232.1 DRO Amount: 7.752932E-03
TEH Area:816811.9 TEH Amount: 2.692102E-02

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-003A ;1020HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0025.RAW
Date & Time Acquired: 10/21/2021 6:36:46 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

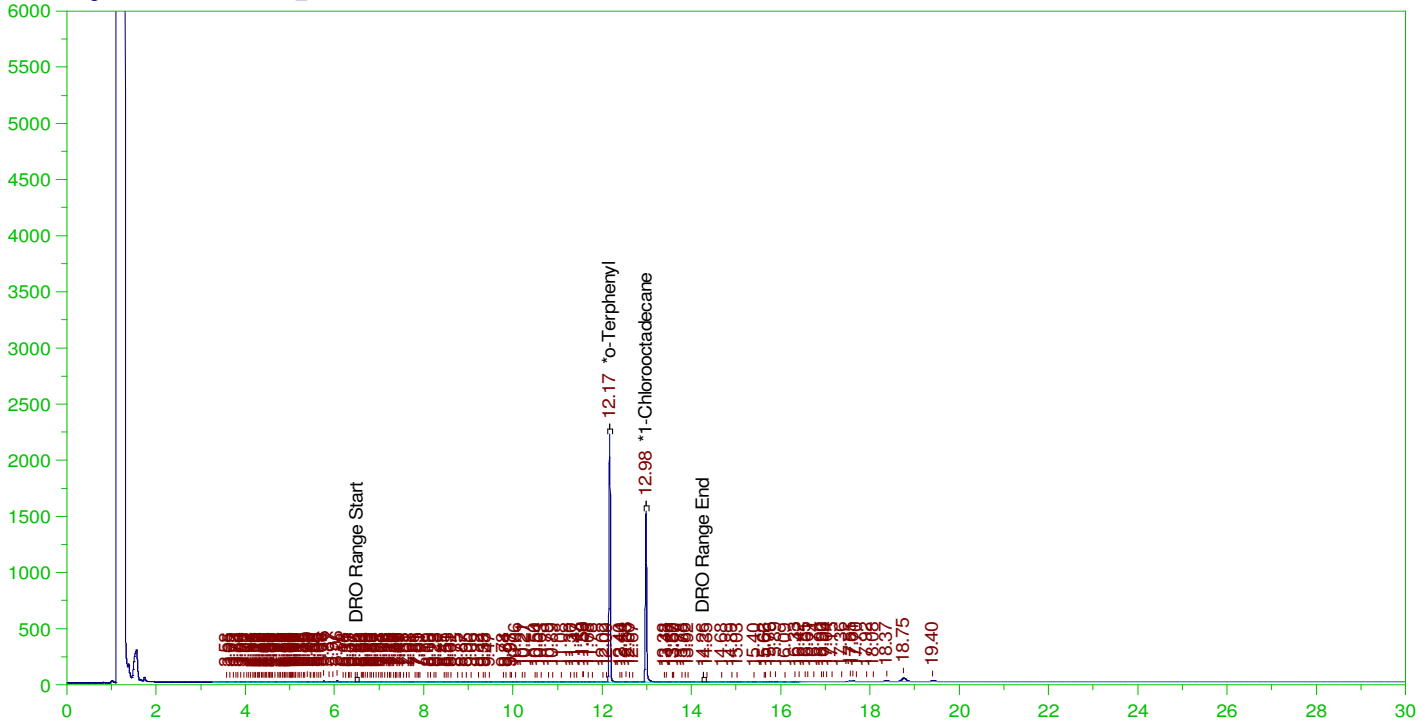
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.24 to 21.49

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:381929.2 RRO AMOUNT: 1.299137E-02

**ERH1813 (RHMW05)** Batch ID: 160450

— G:\org\HP5\DAT\HP5102021_b\1020HP5.0029.RAW B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-RR




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

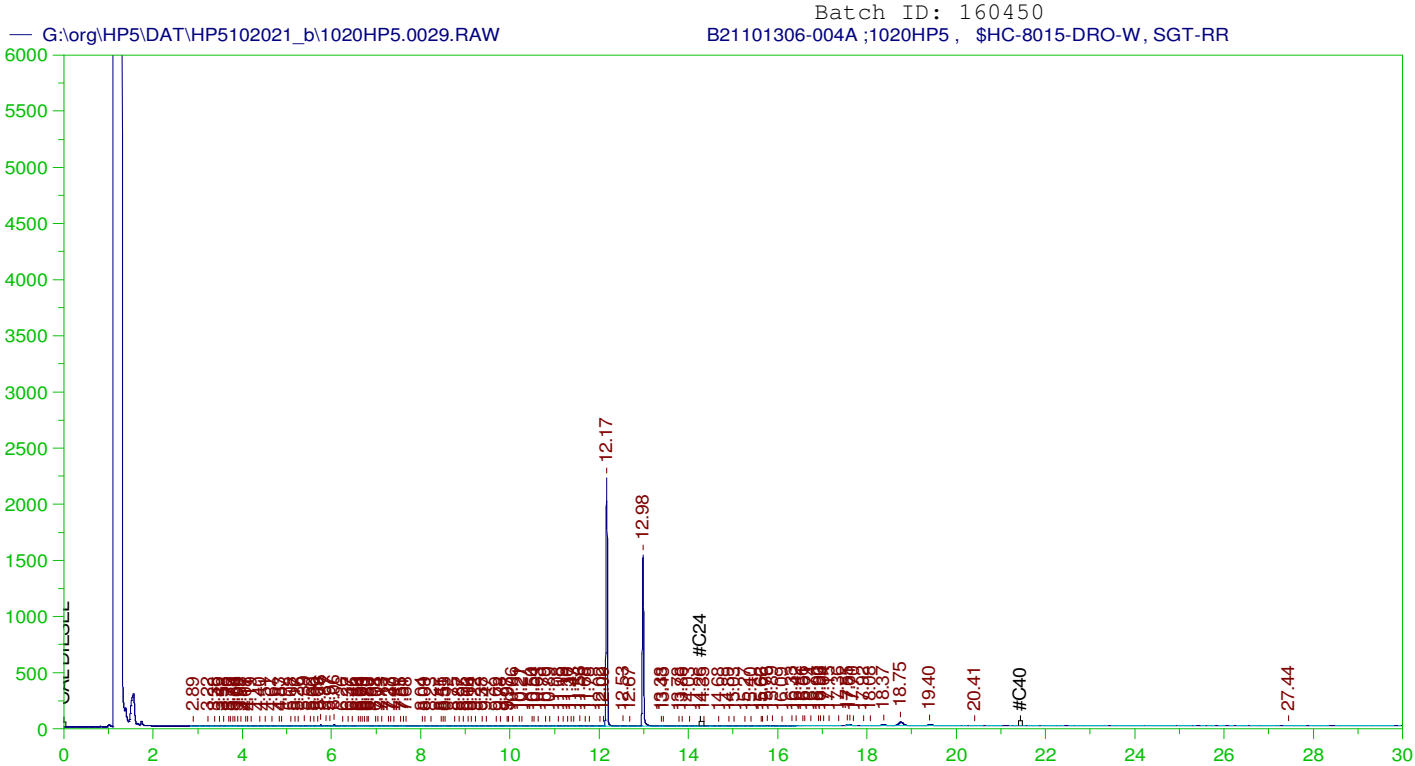
Sample Name: B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-RR
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0029.RAW
Date & Time Acquired: 10/21/2021 9:27:46 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-HT-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HT-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.46 to 14.33

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.166 | .194 | .12 | 61.82 | - |
| *1-Chlorooctadecane | 12.978 | .194 | .096 | 49.46 | - |

DRO Area:255436.6 DRO Amount: 8.418845E-03
TEH Area:888625.1 TEH Amount: 2.928788E-02

Batch ID: 160450




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101306-004A ;1020HP5 , $HC-8015-DRO-W, SGT-RR
Raw File: G:\org\HP5\DAT\HP5102021_b\1020HP5.0029.RAW
Date & Time Acquired: 10/21/2021 9:27:46 AM
Method File: G:\Org\HP5\Methods\DR_OIL-S-AK-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AK-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.24 to 21.49

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|

RRO Area:380308.3 RRO AMOUNT: 1.293624E-02

**From:** Ramos, Alethea <alethea.ramos@aecom.com>
**Sent:** Friday, November 05, 2021 10:37 PM
**To:** Shari Endy
**Cc:** Pascua, Margie; Hart, Jeff
**Subject:** CV18F0126: CUI_SDGs Requiring Revisions by 11/10

CUI

Hi Shari,

The only revision needed for SDGs indicated in both "Revisions Needed by 11/10" and "Additional Revisions" list is to revise Level 2 Reports to reflect J-flagged detects above the DL. For SDG B21100834, if you could also provide the Level 4 and Level 2 report, that would be greatly appreciated. In "GOOD NO REVISIONS NEEDED" list, those reports are complete. Revised Level 2 reports for SDGs listed under the "Revisions Needed By 11/10" list will be provided to Navy in the RRR Quarterly Report that is due on 11/10 to go through internal review. It was good talking to you and the Energy team today!

**Revisions/Reports Needed By 11/10**
B21092272
B21100125
B21100166
B21100828
B21100834 (missing L4)
B21100806

**Additional Revisions**
B21101306
B21101919

**GOOD NO REVISIONS NEEDED**
B21092273
B21092370
B21100022
B21092660
B21100147
B21100126
B21100171
B21100756
B21100824
B21100827

Have a good weekend,

**Alethea Ramos, CIH**
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# ANALYTICAL SUMMARY REPORT

November 19, 2021

AECOM - Honolulu
1001 Bishop Street, Suite 1600
Honolulu HI, 96813-3698

Work Order: B21101919 Quote ID: 5912

Project Name: CV_18F0126/60571032.02.20.01

Energy Laboratories Inc Billings MT received the following 7 samples from AECOM - Honolulu on 10/23/2021 for analysis.

| Lab ID | Client Sample ID | Collect Date | Received Date | Matrix | Test |
|---|---|---|---|---|---|
| B21101919-001 | ERH1834 (RHMW01R) | 10/20/21 15:30 | 10/23/2021 | Ground Water | DRO-Liquid-Liquid Extraction SW3520C<br>Diesel Range Organics SW8015C |
| B21101919-002 | ERH1828 (RHMW02) | 10/20/21 16:43 | 10/23/2021 | Ground Water | Same As Above |
| B21101919-003 | ERH1831 (RHMW03) | 10/20/21 18:20 | 10/23/2021 | Ground Water | Same As Above |
| B21101919-004 | ERH1825 (RHMW05) | 10/20/21 13:25 | 10/23/2021 | Ground Water | Same As Above |
| B21101919-005 | ERH1837 (RHMW2254-01) | 10/20/21 13:15 | 10/23/2021 | Ground Water | Same As Above |
| B21101919-006 | ERH1840 (RHSF) | 10/20/21 12:50 | 10/23/2021 | Drinking Water | Same As Above |
| B21101919-007 | ERH1842 (RHSF) | 10/20/21 12:50 | 10/23/2021 | Drinking Water | Same As Above |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

**CLIENT:** AECOM - Honolulu
**Project:** CV_18F0126/60571032.02.20.01
**Work Order:** B21101919

**Revised Date:** 11/19/2021
**Report Date:** 11/9/2021

# CASE NARRATIVE

Revised Date: 11/19/2021

On 11/16/2021 an email was received from Margie Pascua at AECOM requesting the laboratory to revise this work order to report the J flagged oil range analyte by EPA Method 8015C on sample ERH1825 (RHMW05), B21101919-004, which was inadvertently missed in the original report. The report has been revised and replaces the previously issued report dated 11/09/2021 in its entirety.

General Comments:

For any question please contact your Project Manager at (406) 252-6325 or billingspm@energylab.com.

All analyses have been performed in accordance with DOD QSM Version 5.3 unless otherwise noted below. The specific methodologies used in obtaining the enclosed analytical results are indicated on the Analytical Summary Report and the Laboratory Analytical Report. The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted in the Work Order Receipt Checklist.

The tests listed below are accredited and meet the requirements of DoD QSM Version 5.3 as verified by ANSI-ASQ National Accreditation Board (ANAB) certificate number ADE-2588. Exceptions to this require client authorization and records documenting this approval are attached in the Sample Management Records. Accreditation may not be offered or required for all methods and analytes reported in this package. Refer to the certificate and scope of accreditation located at https://www.energylab.com/whyus/certifications-quality-control/ or contact your project manager.

Project specific matrix quality control samples may not be reported if site specific samples were not submitted. Matrix quality control samples were performed on project samples where adequate volume was available. All quality control measures met criteria unless otherwise noted in the Analytical QC Exceptions report and in the Analysis Specific Comments below. Where available, sample management records are attached.

The Level IV Validation Package includes data reports for all analyses associated with the instrument calibration, quality control (QC) sample analysis, and sample analysis. All analytical data is within method specifications except as noted in the Analytical QC Exceptions report or the Analysis Specific Comments below. The analytical report identifies preparation batch and analytical run IDs associated with each result for a sample. Only the raw data associated with the parameters listed on this report should be validated.

Analysis Specific Comments:

An Analytical QC Exceptions Report has been attached, summarizing all qualified QC results. All quality control measures met criteria; therefore there were no analytical QC exceptions on this report.

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# Chain of Custody & Analytical Request Record 202110-15

DoD Samples

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COC# NOI

Page 1 of 3

## Account Information (Billing Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |

Special Report/Formats: ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 10 working days.
4. Note "non-PO" on invoice.
5. Note: NOI log in separate from other COCs

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name GM, NL, CF | Sampler Phone 808-987-3201 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1834 (RHMW01R) | 10/20/2021 | 11:30 am | 2 | GW | ✔ | ✔ | | | | | | | | | X | B2110919 |
| 2 | ERH1828 (RHMW02) | 10/20/2021 | 12:43 pm | 2 | GW | ✔ | ✔ | | | | | | | | | X | |
| 3 | ERH1831 (RHMW03) | 10/20/2021 | 2:20 pm | 2 | GW | ✔ | ✔ | | | | | | | | | X | |
| 4 | ERH1825 (RHMW05) | 10/20/2021 | 9:25 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 5 | ERH1837 (RHMW2254-01) | 10/20/2021 | 9:15 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 6 | ERH1840 (RHSF) | 10/20/2021 | 8:50 am | 0 | DW | ✔ | ✔ | | | | | | | | | X | |
| 7 | ERH1842 (RHSF) | 10/20/2021 | 8:50 am | 0 | DW | ✔ | ✔ | | | | | | | | | X | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

JM 10/21/21

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/21/21 12:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | Not Given | 10/23/21 1125 | |

LABORATORY USE ONLY

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | On Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | 0.6 °C | Y N | Y N | CC Cash Check_____ | $ | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

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# Chain of Custody & Analytical Request Record 202110-16

DoD Samples

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COC# NOI Page 2 of 3

## Account Information (Billing Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☒Email |

Special Report/Formats: ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 10 working days.
4. ~~Note "non-PO" on invoice.~~ JR 10/21/21
5. Note: NOI log in separate from other COCs

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name GM, NL, CF | Sampler Phone 808-987-3201 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/-SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1834 (RHMW01R) | 10/20/2021 | 11:30 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | B2110919 |
| 2 | ERH1828 (RHMW02) | 10/20/2021 | 12:43 pm | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 3 | ERH1831 (RHMW03) | 10/20/2021 | 2:20 pm | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 4 | ERH1825 (RHMW05) | 10/20/2021 | 9:25 am | 2 | GW | ✔ | ✔ | | | | | | | | | X | |
| 5 | ERH1837 (RHMW2254-01) | 10/20/2021 | 9:15 am | 0 | GW | ✔ | ✔ | | | | | | | | | X | |
| 6 | ERH1840 (RHSF) | 10/20/2021 | 8:50 am | 0 | DW | ✔ | ✔ | | | | | | | | | X | |
| 7 | ERH1842 (RHSF) | 10/20/2021 | 8:50 am | 0 | DW | ✔ | ✔ | | | | | | | | | X | |
| 8 | JR 10/21/21 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/21/21 12:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | Kacy Vuezie | 10/22/21 1120 | |

LABORATORY USE ONLY

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | On Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | 0.0 °C | Y N | Y N | CC Cash Check_____ | $ | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

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# Chain of Custody & Analytical Request Record 202110-17

DoD Samples

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COC# NOI Page 3 of 3

## Account Information (Billing information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | Alethea Ramos / Margie Pascua |
| Phone | 808-529-7283 / 808-356-5373 |
| Mailing Address | 1001 Bishop St., Suite 1600 |
| City, State, Zip | Honolulu, Hawaii 96813 |
| Email | alethea.ramos@aecom.com / margie.pascua@aecom.com |
| Receive Invoice | ☐Hard Copy ☒Email |
| Receive Report | ☐Hard Copy ☒Email |
| Purchase Order | N/A |
| Quote | N/A |
| Bottle Order | N/A |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AECOM |
| Contact | see Account Information |
| Phone | |
| Mailing Address | |
| City, State, Zip | |
| Email | USAPImaging@aecom.com |
| Receive Report | ☐Hard Copy ☐Email |
| Special Report/Formats: | ☒ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____ |

## Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 10 working days.
4. ~~Note "non-PO" on invoice.~~ MY 10/21/21
5. Note: NOI log in separate from other COCs

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | CV18F0126/60571032.02.20.01 |
| Sampler Name KL, MM | Sampler Phone 808-636-3319 |
| Sample Origin State Hawaii | EPA/State Compliance ☐ Yes ☒ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
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| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 8015 TPH-DRO/RRO w/ SGC | EPA 8015 TPH-DRO/RRO | | | | | | | | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERH1834 (RHMW01R) | 10/20/2021 | 11:30 am | 0 | GW | ✓ | ✓ | | | | | | | | | X | 32110191 9 |
| 2 | ERH1828 (RHMW02) | 10/20/2021 | 12:43 pm | 0 | GW | ✓ | ✓ | | | | | | | | | X | |
| 3 | ERH1831 (RHMW03) | 10/20/2021 | 2:20 pm | 0 | GW | ✓ | ✓ | | | | | | | | | X | |
| 4 | ERH1825 (RHMW05) | 10/20/2021 | 9:25 am | 0 | GW | ✓ | ✓ | | | | | | | | | X | |
| 5 | ERH1837 (RHMW2254-01) | 10/20/2021 | 9:15 am | 2 | GW | ✓ | ✓ | | | | | | | | | X | |
| 6 | ERH1840 (RHSF) | 10/20/2021 | 8:50 am | 2 | DW | ✓ | ✓ | | | | | | | | | X | |
| 7 | ERH1842 (RHSF) | 10/20/2021 | 8:50 am | 2 | DW | ✓ | ✓ | | | | | | | | | X | |
| 8 | | | MY 10/21/21 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Tianzhen Nie | 10/21/21 12:00 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | Michael Ogata | 10/22/21 1120 | |

**LABORATORY USE ONLY**

| Shipped By | Cooler ID(s) | Custody Seals | Intact | Receipt Temp | Temp Blank | On Ice | Payment Type | Amount | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | Y N C B | Y N | 1.6 °C | Y N | Y N | CC Cash Check_____ | $ | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

# Work Order Receipt Checklist

AECOM - Honolulu

B21101919

Login completed by: Leslie S. Cadreau

Date Received: 10/23/2021

Reviewed by: BL2000\gmccartney

Received by: kmt

Reviewed Date: 10/27/2021

Carrier name: FedEx

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all sample bottles? | Yes ☑ | No ☐ | Not Present ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes ☑ | No ☐ | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Applicable ☐ |
| Container/Temp Blank temperature: | °C On Ice | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | Not Applicable ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | Not Applicable ☐ |

## Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## Contact and Corrective Action Comments:

The Temperature Blank temperature for shipping container 1 was 0.6°C (Chain of Custody 1 of 3), shipping container 2 was 0.0°C (Chain of Custody 2 of 3) and shipping container 2 was 1.6°C (Chain of Custody 3 of 3).

The collection time indicated on the Chain of Custody for all samples is in Hawaii-Aleutian Standard Time. The collection time has been converted (+4 Hours) to Mountain Daylight Time.

All Diesel Range Organic containers were received with preservative traceability with bottle order 156775.

# Qualifiers and Abbreviations

| Qualifier | Qualifier Description |
|---|---|
| ## | Limit of Quantitation (LOQ) for this analyte exceeds the Maximum Contaminant Level (MCL) |
| * | Result exceeds the Maximum Contaminant Level (MCL) |
| A | The analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated |
| B | Analyte detected in the method blank |
| C | Continuing calibration verification was outside of the quality control advisory limits |
| D | Limit of Quantitation (LOQ) increased due to sample matrix |
| E | Estimated value - result exceeds the instrument upper quantitation limit |
| H | Analysis performed past the method holding time |
| J | The reported result is an estimated value |
| L | Lowest Limit of Quantitation (LOQ) available for the analytical method used |
| N | Analyte concentration was not sufficiently high to calculate a Relative Percent Difference (RPD) for the serial dilution test |
| O | Diluted out |
| P | Poor method performance - method validations have shown no recoveries at low concentrations or method performance was erratic |
| Q | Values reported below the Limit of Quantitation (LOQ) are statistically invalid |
| R | Relative Percent Difference (RPD) exceeds advisory limit |
| S | Spike recovery outside of advisory limits |
| T | Analyte detected in the associated trip blank |
| U | Not detected at the Limit of Detection (LOD) |
| V | The RPD value for this duplicate represents the RER value and the RPDLimit of 2 is the RER upper limit. |

# Qualifiers and Abbreviations

## Abbreviation

| Reporting | Explanation of Abbreviation |
|---|---|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MCL | Maximum Contaminant Level |
| MDC | Minimum Detectable Concentration |
| ND | Not detected at the Limit of Quantitaton (LOQ) |
| RBSL | Risk-Based Screening Levels |
| REC | Recovery |
| RER | Relative Error Ratio |
| RPD | Relative Percent Difference |
| SPK | Spike |

| Sample Types | Explanation of Abbreviation |
|---|---|
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification Standard |
| DUP | Sample Duplicate |
| ICSA | Interference Check Sample A |
| ICSAB | Interference Check Sample AB |
| ICV | Initial Calibration Verification Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LFB | Laboratory Fortified Blank |
| LRB | Laboratory Reagent Blank |
| MBLK | Method Blank |
| MS | Sample Matrix Spike |
| MSD | Sample Matrix Spike Duplicate |
| PDS | Post Digestion/Distillation Spike |
| QCS | Quality Control Sample |
| SD | Serial Dilution |
| SRM | Standard Reference Material |

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1834 (RHMW01R)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21101919-001
**Collection Date:** 10/20/2021 15:30
**Date Received:** 10/23/2021
**Report Date:** 11/09/2021
**Revised Date:** 11/19/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.67 | mg/L | 1 | | 0.30 | 0.14 | 0.037 | | SW8015C | 10/27/2021 08:22/amn | GCFID-HP5-B_211026A : 18 | 160655 |
| Diesel Range Organics (SGT-C10 to C24) | 0.14 | mg/L | 1 | J | 0.30 | 0.12 | 0.037 | | SW8015C | 10/28/2021 02:15/amn | GCFID-HP5-B_211026B : 9 | 160655 |
| Oil Range Hydrocarbons (C24 to C40) | 0.25 | mg/L | 1 | J | 0.30 | 0.14 | 0.085 | | SW8015C | 10/27/2021 08:22/amn | GCFID-HP5-B_211026A : 18 | 160655 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.085 | | SW8015C | 10/28/2021 02:15/amn | GCFID-HP5-B_211026B : 9 | 160655 |
| Total Extractable Hydrocarbons | 1.2 | mg/L | 1 | | 0.30 | 0.14 | 0.072 | | SW8015C | 10/27/2021 08:22/amn | GCFID-HP5-B_211026A : 18 | 160655 |
| Total Extractable Hydrocarbons (SGT) | 0.16 | mg/L | 1 | J | 0.30 | 0.12 | 0.032 | | SW8015C | 10/28/2021 02:15/amn | GCFID-HP5-B_211026B : 9 | 160655 |
| Surr: o-Terphenyl | 91.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/27/2021 08:22/amn | GCFID-HP5-B_211026A : 18 | 160655 |
| Surr: o-Terphenyl (SGT) | 90.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/28/2021 02:15/amn | GCFID-HP5-B_211026B : 9 | 160655 |
| Surr: n-Triacontane | 84.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/27/2021 08:22/amn | GCFID-HP5-B_211026A : 18 | 160655 |
| Surr: n-Triacontane (SGT) | 80.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/28/2021 02:15/amn | GCFID-HP5-B_211026B : 9 | 160655 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1828 (RHMW02)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21101919-002
**Collection Date:** 10/20/2021 16:43
**Date Received:** 10/23/2021
**Report Date:** 11/09/2021
**Revised Date:** 11/19/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 3.0 | mg/L | 1 | | 0.30 | 0.14 | 0.037 | | SW8015C | 10/27/2021 07:38/amn | GCFID-HP5-B_211026A : 17 | 160655 |
| Diesel Range Organics (SGT-C10 to C24) | 0.79 | mg/L | 1 | | 0.30 | 0.11 | 0.037 | | SW8015C | 10/28/2021 01:32/amn | GCFID-HP5-B_211026B : 8 | 160655 |
| Oil Range Hydrocarbons (C24 to C40) | 0.30 | mg/L | 1 | | 0.30 | 0.14 | 0.084 | | SW8015C | 10/27/2021 07:38/amn | GCFID-HP5-B_211026A : 17 | 160655 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.084 | | SW8015C | 10/28/2021 01:32/amn | GCFID-HP5-B_211026B : 8 | 160655 |
| Total Extractable Hydrocarbons | 3.4 | mg/L | 1 | | 0.30 | 0.14 | 0.071 | | SW8015C | 10/27/2021 07:38/amn | GCFID-HP5-B_211026A : 17 | 160655 |
| Total Extractable Hydrocarbons (SGT) | 0.82 | mg/L | 1 | | 0.30 | 0.11 | 0.031 | | SW8015C | 10/28/2021 01:32/amn | GCFID-HP5-B_211026B : 8 | 160655 |
| Surr: o-Terphenyl | 66.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/27/2021 07:38/amn | GCFID-HP5-B_211026A : 17 | 160655 |
| Surr: o-Terphenyl (SGT) | 69.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/28/2021 01:32/amn | GCFID-HP5-B_211026B : 8 | 160655 |
| Surr: n-Triacontane | 87.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/27/2021 07:38/amn | GCFID-HP5-B_211026A : 17 | 160655 |
| Surr: n-Triacontane (SGT) | 88.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/28/2021 01:32/amn | GCFID-HP5-B_211026B : 8 | 160655 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1831 (RHMW03)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21101919-003
**Collection Date:** 10/20/2021 18:20
**Date Received:** 10/23/2021
**Report Date:** 11/09/2021
**Revised Date:** 11/19/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.15 | mg/L | 1 | J | 0.30 | 0.14 | 0.037 | | SW8015C | 10/27/2021 06:56/amn | GCFID-HP5-B_211026A : 16 | 160655 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.11 | 0.037 | | SW8015C | 10/27/2021 23:23/amn | GCFID-HP5-B_211026B : 6 | 160655 |
| Oil Range Hydrocarbons (C24 to C40) | 0.28 | mg/L | 1 | J | 0.30 | 0.14 | 0.083 | | SW8015C | 10/27/2021 06:56/amn | GCFID-HP5-B_211026A : 16 | 160655 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.083 | | SW8015C | 10/27/2021 23:23/amn | GCFID-HP5-B_211026B : 6 | 160655 |
| Total Extractable Hydrocarbons | 0.50 | mg/L | 1 | | 0.30 | 0.14 | 0.071 | | SW8015C | 10/27/2021 06:56/amn | GCFID-HP5-B_211026A : 16 | 160655 |
| Total Extractable Hydrocarbons (SGT) | 0.035 | mg/L | 1 | J | 0.30 | 0.11 | 0.031 | | SW8015C | 10/27/2021 23:23/amn | GCFID-HP5-B_211026B : 6 | 160655 |
| Surr: o-Terphenyl | 73.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/27/2021 06:56/amn | GCFID-HP5-B_211026A : 16 | 160655 |
| Surr: o-Terphenyl (SGT) | 74.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/27/2021 23:23/amn | GCFID-HP5-B_211026B : 6 | 160655 |
| Surr: n-Triacontane | 86.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/27/2021 06:56/amn | GCFID-HP5-B_211026A : 16 | 160655 |
| Surr: n-Triacontane (SGT) | 84.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/27/2021 23:23/amn | GCFID-HP5-B_211026B : 6 | 160655 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1825 (RHMW05)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21101919-004
**Collection Date:** 10/20/2021 13:25
**Date Received:** 10/23/2021
**Report Date:** 11/09/2021
**Revised Date:** 11/19/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | 0.091 | mg/L | 1 | J | 0.30 | 0.14 | 0.037 | | SW8015C | 10/27/2021 05:29/amn | GCFID-HP5-B_211026A : 15 | 160655 |
| Diesel Range Organics (SGT-C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.11 | 0.037 | | SW8015C | 10/27/2021 22:40/amn | GCFID-HP5-B_211026B : 5 | 160655 |
| Oil Range Hydrocarbons (C24 to C40) | 0.13 | mg/L | 1 | J | 0.30 | 0.14 | 0.083 | | SW8015C | 10/27/2021 05:29/amn | GCFID-HP5-B_211026A : 15 | 160655 |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.083 | | SW8015C | 10/27/2021 22:40/amn | GCFID-HP5-B_211026B : 5 | 160655 |
| Total Extractable Hydrocarbons | 0.29 | mg/L | 1 | J | 0.30 | 0.14 | 0.071 | | SW8015C | 10/27/2021 05:29/amn | GCFID-HP5-B_211026A : 15 | 160655 |
| Total Extractable Hydrocarbons (SGT) | 0.033 | mg/L | 1 | J | 0.30 | 0.11 | 0.031 | | SW8015C | 10/27/2021 22:40/amn | GCFID-HP5-B_211026B : 5 | 160655 |
| Surr: o-Terphenyl | 85.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/27/2021 05:29/amn | GCFID-HP5-B_211026A : 15 | 160655 |
| Surr: o-Terphenyl (SGT) | 80.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/27/2021 22:40/amn | GCFID-HP5-B_211026B : 5 | 160655 |
| Surr: n-Triacontane | 89.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/27/2021 05:29/amn | GCFID-HP5-B_211026A : 15 | 160655 |
| Surr: n-Triacontane (SGT) | 80.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/27/2021 22:40/amn | GCFID-HP5-B_211026B : 5 | 160655 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1837 (RHMW2254-01)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Ground Water

**Lab ID:** B21101919-005
**Collection Date:** 10/20/2021 13:15
**Date Received:** 10/23/2021
**Report Date:** 11/09/2021
**Revised Date:** 11/19/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.037 | | SW8015C | 10/27/2021 04:46/amn | GCFID-HP5-B_211026A : 14 | 160655 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.084 | | SW8015C | 10/27/2021 04:46/amn | GCFID-HP5-B_211026A : 14 | 160655 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.14 | 0.071 | | SW8015C | 10/27/2021 04:46/amn | GCFID-HP5-B_211026A : 14 | 160655 |
| Surr: o-Terphenyl | 87.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/27/2021 04:46/amn | GCFID-HP5-B_211026A : 14 | 160655 |
| Surr: n-Triacontane | 79.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/27/2021 04:46/amn | GCFID-HP5-B_211026A : 14 | 160655 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1840 (RHSF)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21101919-006
**Collection Date:** 10/20/2021 12:50
**Date Received:** 10/23/2021
**Report Date:** 11/09/2021
**Revised Date:** 11/19/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.038 | | SW8015C | 10/27/2021 03:19/amn | GCFID-HP5-B_211026A : 13 | 160655 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.086 | | SW8015C | 10/27/2021 03:19/amn | GCFID-HP5-B_211026A : 13 | 160655 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.073 | | SW8015C | 10/27/2021 03:19/amn | GCFID-HP5-B_211026A : 13 | 160655 |
| Surr: o-Terphenyl | 87.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/27/2021 03:19/amn | GCFID-HP5-B_211026A : 13 | 160655 |
| Surr: n-Triacontane | 78.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/27/2021 03:19/amn | GCFID-HP5-B_211026A : 13 | 160655 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Client Sample ID:** ERH1842 (RHSF)
**Project:** CV_18F0126/60571032.02.20.01
**Matrix:** Drinking Water

**Lab ID:** B21101919-007
**Collection Date:** 10/20/2021 12:50
**Date Received:** 10/23/2021
**Report Date:** 11/09/2021
**Revised Date:** 11/19/2021

| Analyses | Result | Units | DF | Qual | LOQ | LOD | DL | MCL | Method | Analysis Date / By | RunID : Run Order | BatchID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | | | | | | | | | | | | |
| Diesel Range Organics (C10 to C24) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.038 | | SW8015C | 10/27/2021 02:36/amn | GCFID-HP5-B_211026A : 12 | 160655 |
| Oil Range Hydrocarbons (C24 to C40) | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.086 | | SW8015C | 10/27/2021 02:36/amn | GCFID-HP5-B_211026A : 12 | 160655 |
| Total Extractable Hydrocarbons | ND | mg/L | 1 | U | 0.30 | 0.15 | 0.073 | | SW8015C | 10/27/2021 02:36/amn | GCFID-HP5-B_211026A : 12 | 160655 |
| Surr: o-Terphenyl | 95.0 | %REC | 1 | | 56-125 | | | | SW8015C | 10/27/2021 02:36/amn | GCFID-HP5-B_211026A : 12 | 160655 |
| Surr: n-Triacontane | 86.0 | %REC | 1 | | 50-150 | | | | SW8015C | 10/27/2021 02:36/amn | GCFID-HP5-B_211026A : 12 | 160655 |

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101919 **Revised Date:** 11/19/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211026A: 4 **SampType:** Method Blank **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/26/2021 13:37 **Prep Date:** 10/25/2021 09:28
**Lab ID:** MB-160655 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl | 0.19 | 0.0020 | 0.20 | | 93.0 | 56 | 125 | | | | |
| Surr: n-Triacontane | 0.082 | 0.0020 | 0.10 | | 82.0 | 50 | 150 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026B: 4 **SampType:** Method Blank **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/27/2021 21:57 **Prep Date:** 10/25/2021 09:28
**Lab ID:** MB-160655 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | ND | 0.15 | | | | | | | | | |
| Oil Range Hydrocarbons (SGT-C24 to C40) | ND | 0.15 | | | | | | | | | |
| Total Extractable Hydrocarbons (SGT) | ND | 0.15 | | | | | | | | | |
| Surr: o-Terphenyl (SGT) | 0.18 | 0.0020 | 0.20 | | 91.0 | 56 | 125 | | | | |
| Surr: n-Triacontane (SGT) | 0.080 | 0.0020 | 0.10 | | 79.0 | 50 | 150 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101919 **Revised Date:** 11/19/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211026A: 3 **SampType:** Laboratory Control Sample **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/26/2021 12:54 **Prep Date:** 10/25/2021 09:28
**Lab ID:** LCS-160655 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 13 | 0.30 | 15 | | 87.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 14 | 0.30 | 15 | | 94.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.19 | 0.0020 | 0.20 | | 96.0 | 56 | 125 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026A: 21 **SampType:** Laboratory Control Sample **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/27/2021 11:56 **Prep Date:** 10/25/2021 09:31
**Lab ID:** LCS-160655-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 94.0 | 41 | 113 | | | | |
| Surr: n-Triacontane | 0.085 | 0.0020 | 0.10 | | 85.0 | 50 | 150 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026B: 3 **SampType:** Laboratory Control Sample **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/27/2021 21:14 **Prep Date:** 10/25/2021 09:28
**Lab ID:** LCS-160655 **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 13 | 0.30 | 15 | | 85.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons (SGT) | 14 | 0.30 | 15 | | 92.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl (SGT) | 0.19 | 0.0020 | 0.20 | | 97.0 | 56 | 125 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101919 **Revised Date:** 11/19/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211026B: 12 **SampType:** Laboratory Control Sample **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/28/2021 05:07 **Prep Date:** 10/25/2021 09:31
**Lab ID:** LCS-160655-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 4.2 | 0.30 | 5.0 | | 83.0 | 41 | 113 | | | | |
| Surr: n-Triacontane (SGT) | 0.073 | 0.0020 | 0.10 | | 73.0 | 50 | 150 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026A: 22 **SampType:** Sample Matrix Spike **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/27/2021 13:22 **Prep Date:** 10/25/2021 14:08
**Lab ID:** B21101919-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 8.9 | 0.60 | 10 | 0.37 | 86.0 | 41 | 113 | | | | |
| Surr: n-Triacontane | 0.16 | 0.0040 | 0.20 | 0.0 | 80.0 | 50 | 150 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026A: 23 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/27/2021 14:47 **Prep Date:** 10/25/2021 14:08
**Lab ID:** B21101919-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 9.5 | 0.60 | 10 | 0.37 | 91.0 | 41 | 113 | 8.9 | 6.1 | 20.0 | |
| Surr: n-Triacontane | 0.16 | 0.0040 | 0.20 | 0.0 | 82.0 | 50 | 150 | 0.0 | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101919 **Revised Date:** 11/19/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211026A: 24 **SampType:** Sample Matrix Spike **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/27/2021 16:12 **Prep Date:** 10/25/2021 14:08
**Lab ID:** B21101919-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 26 | 0.57 | 28 | 0.67 | 89.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons | 28 | 0.57 | 28 | 1.2 | 95.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl | 0.34 | 0.0038 | 0.38 | 0.0 | 91.0 | 56 | 125 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026A: 25 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/27/2021 17:39 **Prep Date:** 10/25/2021 14:08
**Lab ID:** B21101919-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 25 | 0.57 | 28 | 0.67 | 86.0 | 36 | 132 | 26 | 2.8 | 20.0 | |
| Total Extractable Hydrocarbons | 27 | 0.57 | 28 | 1.2 | 92.0 | 60 | 132 | 28 | 3.1 | 20.0 | |
| Surr: o-Terphenyl | 0.36 | 0.0038 | 0.38 | 0.0 | 94.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026B: 10 **SampType:** Sample Matrix Spike **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/28/2021 02:58 **Prep Date:** 10/25/2021 14:08
**Lab ID:** B21101919-001AMS **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 23 | 0.57 | 28 | 0.0 | 80.0 | 36 | 132 | | | | |
| Total Extractable Hydrocarbons (SGT) | 24 | 0.57 | 28 | 0.16 | 85.0 | 60 | 132 | | | | |
| Surr: o-Terphenyl (SGT) | 0.32 | 0.0038 | 0.38 | 0.0 | 84.0 | 56 | 125 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101919 **Revised Date:** 11/19/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211026B: 11 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/28/2021 03:41 **Prep Date:** 10/25/2021 14:08
**Lab ID:** B21101919-001AMSD **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to C24) | 20 | 0.57 | 28 | 0.0 | 70.0 | 36 | 132 | 23 | 14.0 | 20.0 | |
| Total Extractable Hydrocarbons (SGT) | 21 | 0.57 | 28 | 0.16 | 74.0 | 60 | 132 | 24 | 14.0 | 20.0 | |
| Surr: o-Terphenyl (SGT) | 0.30 | 0.0038 | 0.38 | 0.0 | 79.0 | 56 | 125 | 0.0 | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026B: 15 **SampType:** Sample Matrix Spike **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/28/2021 08:41 **Prep Date:** 10/25/2021 14:08
**Lab ID:** B21101919-002AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 7.2 | 0.60 | 10 | 0.0 | 72.0 | 41 | 113 | | | | |
| Surr: n-Triacontane (SGT) | 0.13 | 0.0040 | 0.20 | 0.0 | 63.0 | 50 | 150 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026B: 16 **SampType:** Sample Matrix Spike Duplicate **Batch ID:** 160655
**Method:** SW8015C **Analysis Date:** 10/28/2021 10:51 **Prep Date:** 10/25/2021 14:08
**Lab ID:** B21101919-002AMSD-RRO **Units:** mg/L **Prep Method:** SW3520C

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | 8.0 | 0.60 | 10 | 0.0 | 80.0 | 41 | 113 | 7.2 | 11.0 | 20.0 | |
| Surr: n-Triacontane (SGT) | 0.14 | 0.0040 | 0.20 | 0.0 | 71.0 | 50 | 150 | 0.0 | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101919 **Revised Date:** 11/19/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211026A: 9 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369302
**Method:** SW8015C **Analysis Date:** 10/26/2021 22:17 **Prep Date:**
**Lab ID:** CCV_1026HP521r-W **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.7 | 0.30 | 5.0 | | 94.0 | 80 | 120 | | | | |
| Surr: n-Triacontane | 0.19 | 0.0020 | 0.20 | | 97.0 | 80 | 120 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026A: 10 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369302
**Method:** SW8015C **Analysis Date:** 10/26/2021 23:00 **Prep Date:**
**Lab ID:** CCV_1026HP522r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 98.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 102.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 108.0 | 80 | 120 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026A: 19 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369302
**Method:** SW8015C **Analysis Date:** 10/27/2021 09:48 **Prep Date:**
**Lab ID:** CCV_1026HP537r-W **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.8 | 0.30 | 5.0 | | 96.0 | 80 | 120 | | | | |
| Surr: n-Triacontane | 0.19 | 0.0020 | 0.20 | | 97.0 | 80 | 120 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101919 **Revised Date:** 11/19/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211026A: 20 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369302
**Method:** SW8015C **Analysis Date:** 10/27/2021 10:31 **Prep Date:**
**Lab ID:** CCV_1026HP538r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 98.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 101.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 106.0 | 80 | 120 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A, B21101919-005A, B21101919-006A, B21101919-007A**

**Run ID: Run Order:** GCFID-HP5-B_211026B: 1 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369371
**Method:** SW8015C **Analysis Date:** 10/27/2021 19:05 **Prep Date:**
**Lab ID:** CCV_1026HP550r-W **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.6 | 0.30 | 5.0 | | 92.0 | 80 | 120 | | | | |
| Surr: n-Triacontane | 0.19 | 0.0020 | 0.20 | | 97.0 | 80 | 120 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A**

**Run ID: Run Order:** GCFID-HP5-B_211026B: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369371
**Method:** SW8015C **Analysis Date:** 10/27/2021 19:48 **Prep Date:**
**Lab ID:** CCV_1026HP551r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 97.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 15 | 0.30 | 15 | | 100.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.21 | 0.0020 | 0.20 | | 106.0 | 80 | 120 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A**

# Analytical QC Summary Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101919 **Revised Date:** 11/19/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 11/09/2021

**Run ID: Run Order:** GCFID-HP5-B_211026B: 13 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369371
**Method:** SW8015C **Analysis Date:** 10/28/2021 06:32 **Prep Date:**
**Lab ID:** CCV_1026HP566r-W **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | 4.9 | 0.30 | 5.0 | | 97.0 | 80 | 120 | | | | |
| Surr: n-Triacontane | 0.20 | 0.0020 | 0.20 | | 99.0 | 80 | 120 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A**

**Run ID: Run Order:** GCFID-HP5-B_211026B: 14 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R369371
**Method:** SW8015C **Analysis Date:** 10/28/2021 07:15 **Prep Date:**
**Lab ID:** CCV_1026HP567r **Units:** mg/L **Prep Method:**

| Analytes | Result | LOQ | Spk value | Spk RefVal | %REC | LowLimit | HighLimit | RPD RefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | 15 | 0.30 | 15 | | 101.0 | 80 | 120 | | | | |
| Total Extractable Hydrocarbons | 16 | 0.30 | 15 | | 105.0 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 0.22 | 0.0020 | 0.20 | | 109.0 | 80 | 120 | | | | |

Associated Samples: **B21101919-001A, B21101919-002A, B21101919-003A, B21101919-004A**

# Analytical QC Exceptions Report

Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101919
**Project:** CV_18F0126/60571032.02.20.01

**Revised Date:** 11/19/2021
**Report Date:** 11/09/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.

# Preparation and Analysis Dates Report

**Work Order:** B21101919
**Client:** AECOM - Honolulu
**Project Name:** CV_18F0126/60571032.02.20.01

**Date Revised:** 11/19/2021
**Report Date:** 11/09/2021

| Lab ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Method | Prep Date | Prep Batch | Analysis Method | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | ERH1834 (RHMW01R) | 10/20/2021 15:30 | Ground Water | Diesel Range Organics | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/27/2021 08:22 |
| | | | | | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/28/2021 02:15 |
| 002A | ERH1828 (RHMW02) | 10/20/2021 16:43 | Ground Water | Diesel Range Organics | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/27/2021 07:38 |
| | | | | | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/28/2021 01:32 |
| 003A | ERH1831 (RHMW03) | 10/20/2021 18:20 | Ground Water | Diesel Range Organics | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/27/2021 06:56 |
| | | | | | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/27/2021 23:23 |
| 004A | ERH1825 (RHMW05) | 10/20/2021 13:25 | Ground Water | Diesel Range Organics | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/27/2021 05:29 |
| | | | | | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/27/2021 22:40 |
| 005A | ERH1837 (RHMW2254-01) | 10/20/2021 13:15 | Ground Water | Diesel Range Organics | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/27/2021 04:46 |
| 006A | ERH1840 (RHSF) | 10/20/2021 12:50 | Drinking Water | Diesel Range Organics | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/27/2021 03:19 |
| 007A | ERH1842 (RHSF) | 10/20/2021 12:50 | Drinking Water | Diesel Range Organics | | SW3520C | 10/25/2021 14:08 | 160655 | SW8015C | 10/27/2021 02:36 |

# Chemical Abstracts Service (CAS) Registry Numbers

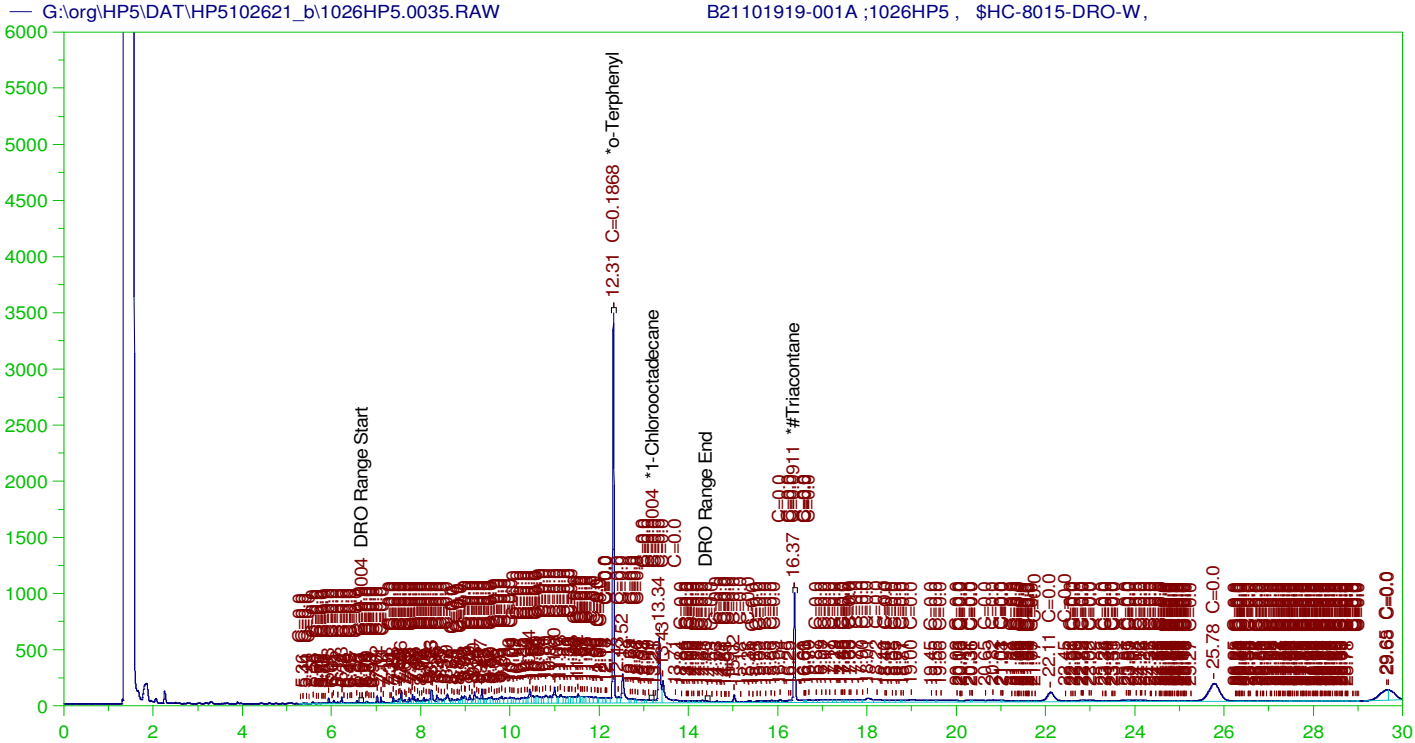
Prepared by Billings, MT Branch

**Client:** AECOM - Honolulu
**Workorder:** B21101919 **Revised Date:** 11/19/2021
**Project:** CV_18F0126/60571032.02.20.01 **Report Date:** 11/09/2021

| Analyses | CAS No |
|---|---|
| **PETROLEUM HYDROCARBONS-SEMI-VOLATILE** | |
| Diesel Range Organics (C10 to C24) | |
| Diesel Range Organics (SGT-C10 to C24) | |
| Oil Range Hydrocarbons (C24 to C40) | |
| Oil Range Hydrocarbons (SGT-C24 to C40) | |
| Total Extractable Hydrocarbons | |
| Total Extractable Hydrocarbons (SGT) | |

**ERH1834 (RHMW01R)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0035.RAW B21101919-001A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0035.RAW
Date & Time Acquired: 10/27/2021 8:22:06 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

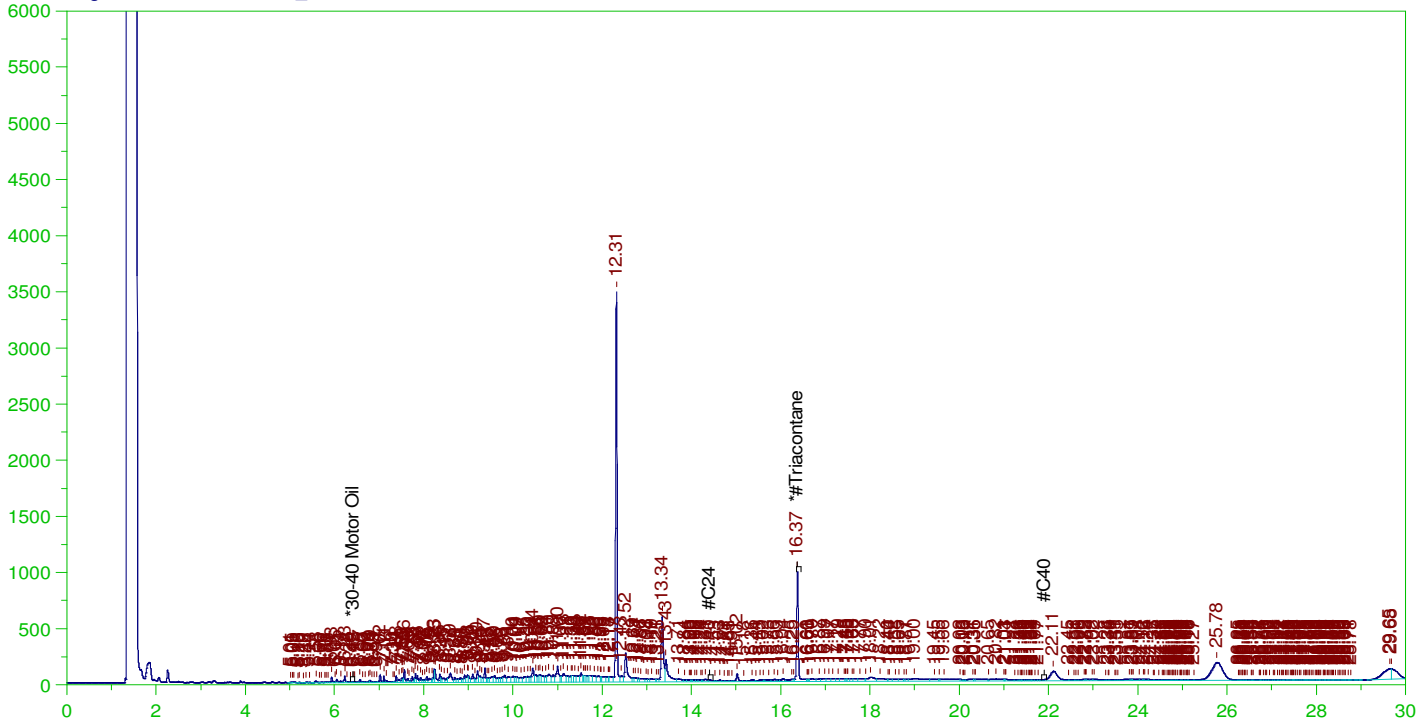
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.314 | .192 | .187 | 97.12 | - |
| *1-Chlorooctadecane | 13.208 | .192 | . | .19 | - |
| *#Triacontane | 16.372 | .192 | .091 | 47.39 | - |

DRO Area:2.062467E+07 DRO Amount: 0.6732249
TEH Area:3.6535E+07 TEH Amount: 1.192566

**ERH1834 (RHMW01R)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0035.RAW B21101919-001A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0035.RAW
Date & Time Acquired: 10/27/2021 8:22:06 AM
Method File: G:\Org\HP5\Methods\D3_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

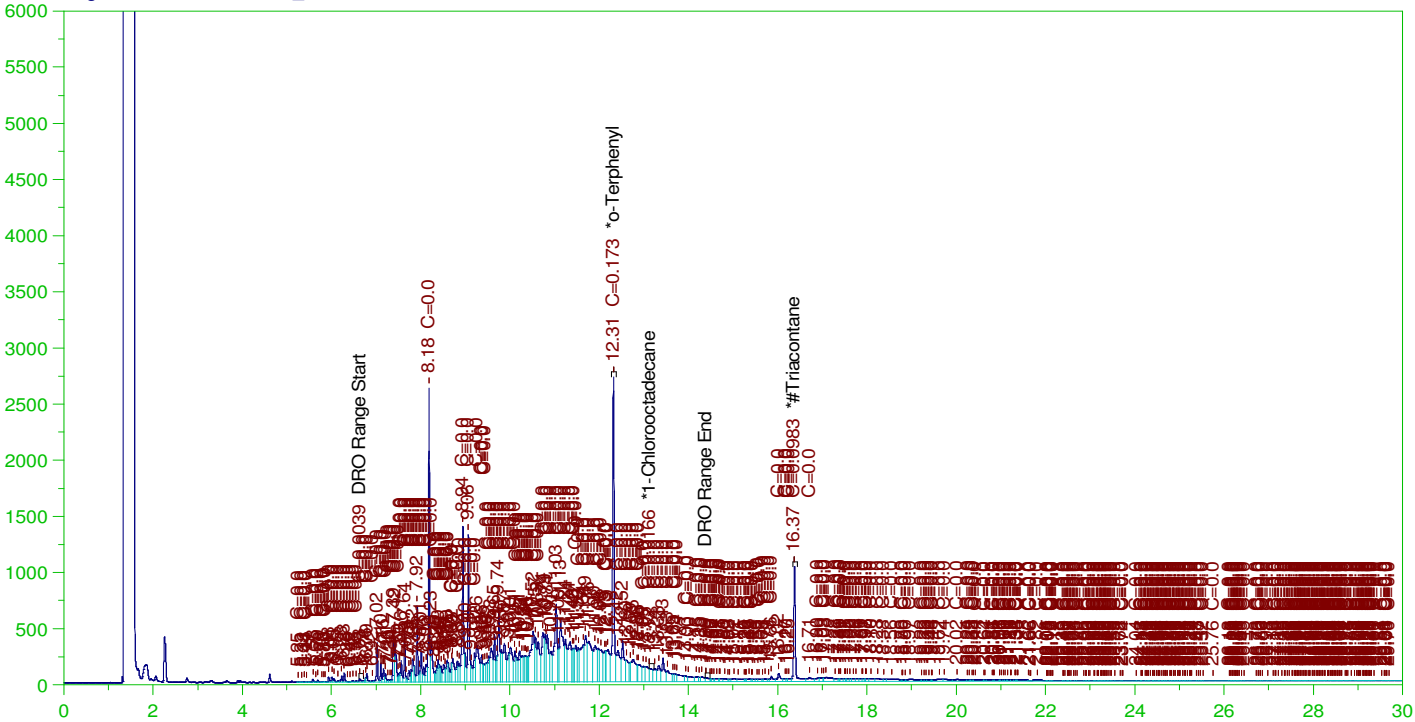
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | .481 | .091 | 18.95 | - |

RRO Area:7397329 RRO AMOUNT: 0.2492017

**ERH1828 (RHMW02)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0034.RAW B21101919-002A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-002A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0034.RAW
Date & Time Acquired: 10/27/2021 7:38:56 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

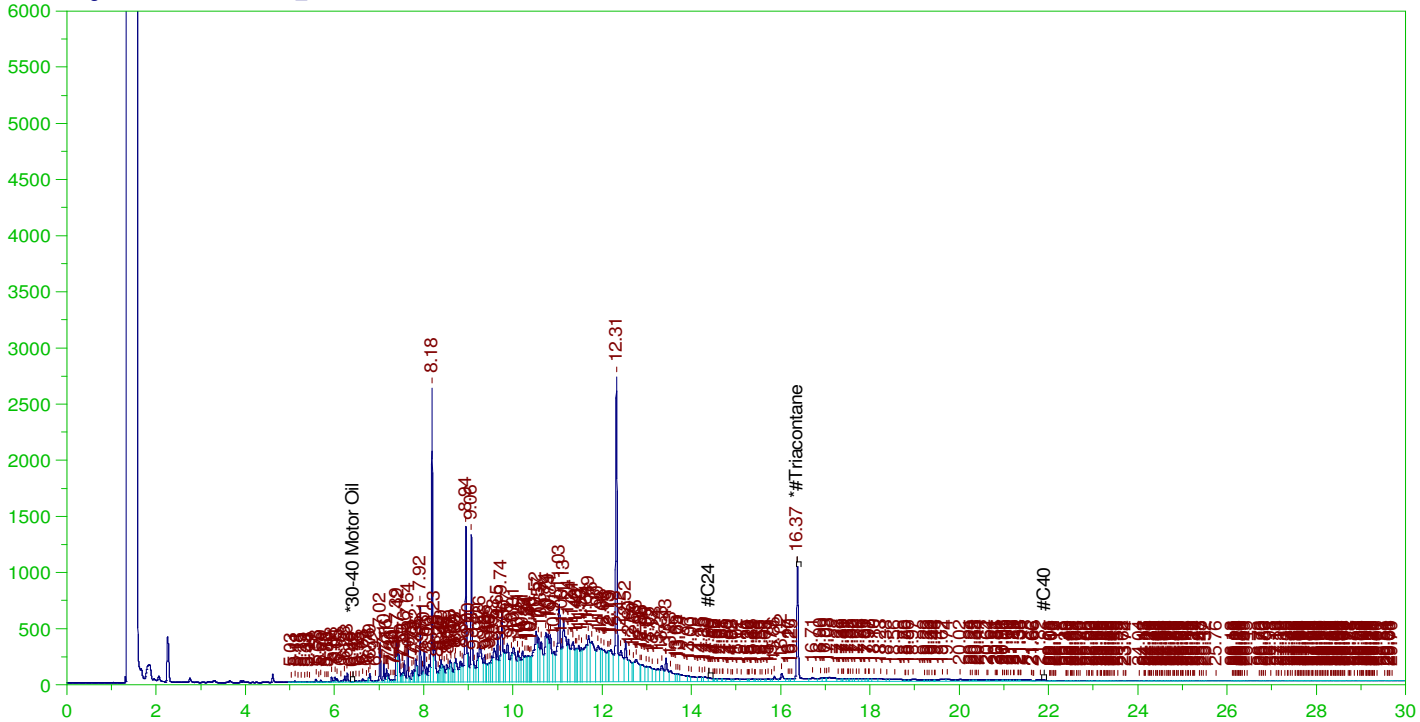
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | .19 | .173 | 90.84 | - |
| *1-Chlorooctadecane | 13.12 | .19 | .017 | 8.72 | - |
| *#Triacontane | 16.372 | .19 | .098 | 51.61 | - |

DRO Area:9.397706E+07 DRO Amount: 3.038359
TEH Area:1.057764E+08 TEH Amount: 3.419842

**ERH1828 (RHMW02)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0034.RAW B21101919-002A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0034.RAW
Date & Time Acquired: 10/27/2021 7:38:56 AM
Method File: G:\Org\HP5\Methods\D3_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

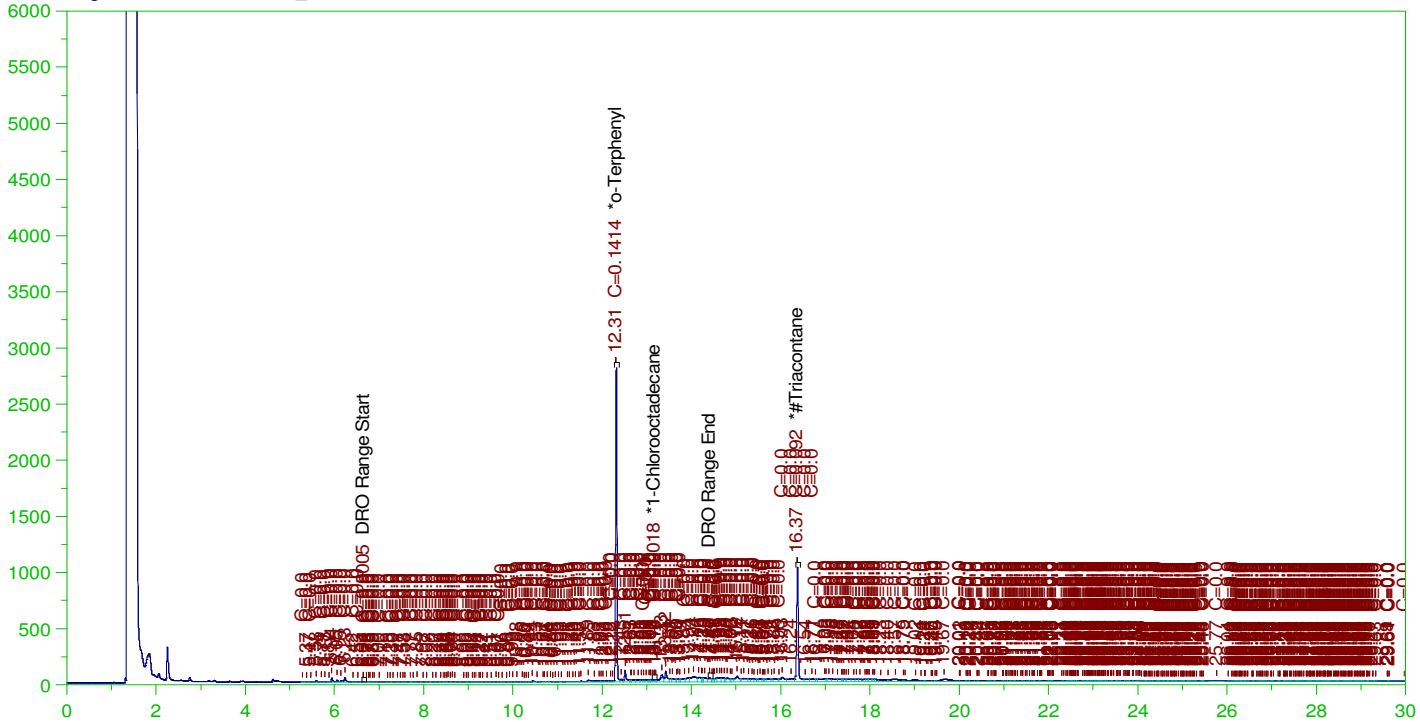
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | .476 | .098 | 20.65 | - |

RRO Area:8995917 RRO AMOUNT: 0.3001688

**ERH1831 (RHMW03)** Batch ID: 160655

G:\org\HP5\DAT\HP5102621_b\1026HP5.0033.RAW B21101919-003A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-003A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0033.RAW
Date & Time Acquired: 10/27/2021 6:56:06 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

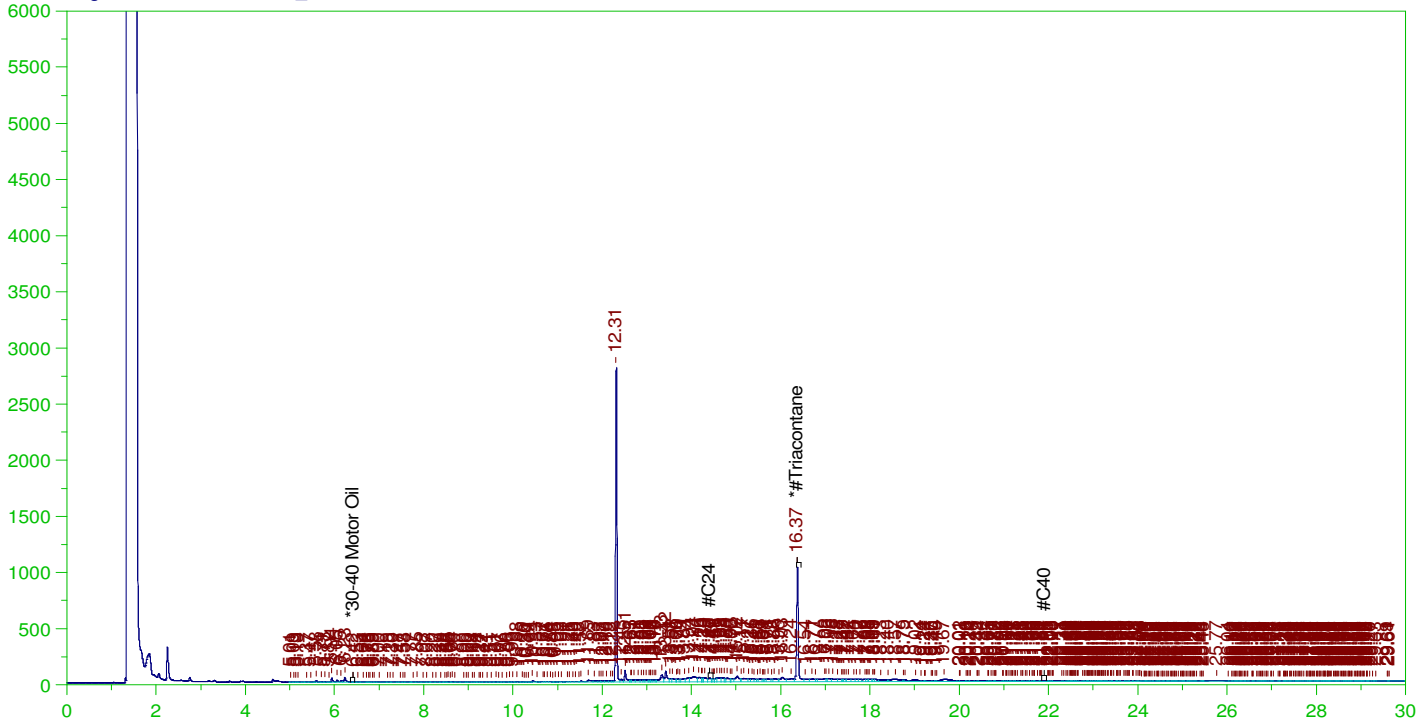
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.312 | .19 | .141 | 74.6 | - |
| *1-Chlorooctadecane | 13.164 | .19 | .002 | .95 | - |
| *#Triacontane | 16.371 | .19 | .092 | 48.51 | - |

DRO Area:4785067 DRO Amount: 0.1539721
TEH Area:1.542876E+07 TEH Amount: 0.4964609

**ERH1831 (RHMW03)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0033.RAW B21101919-003A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

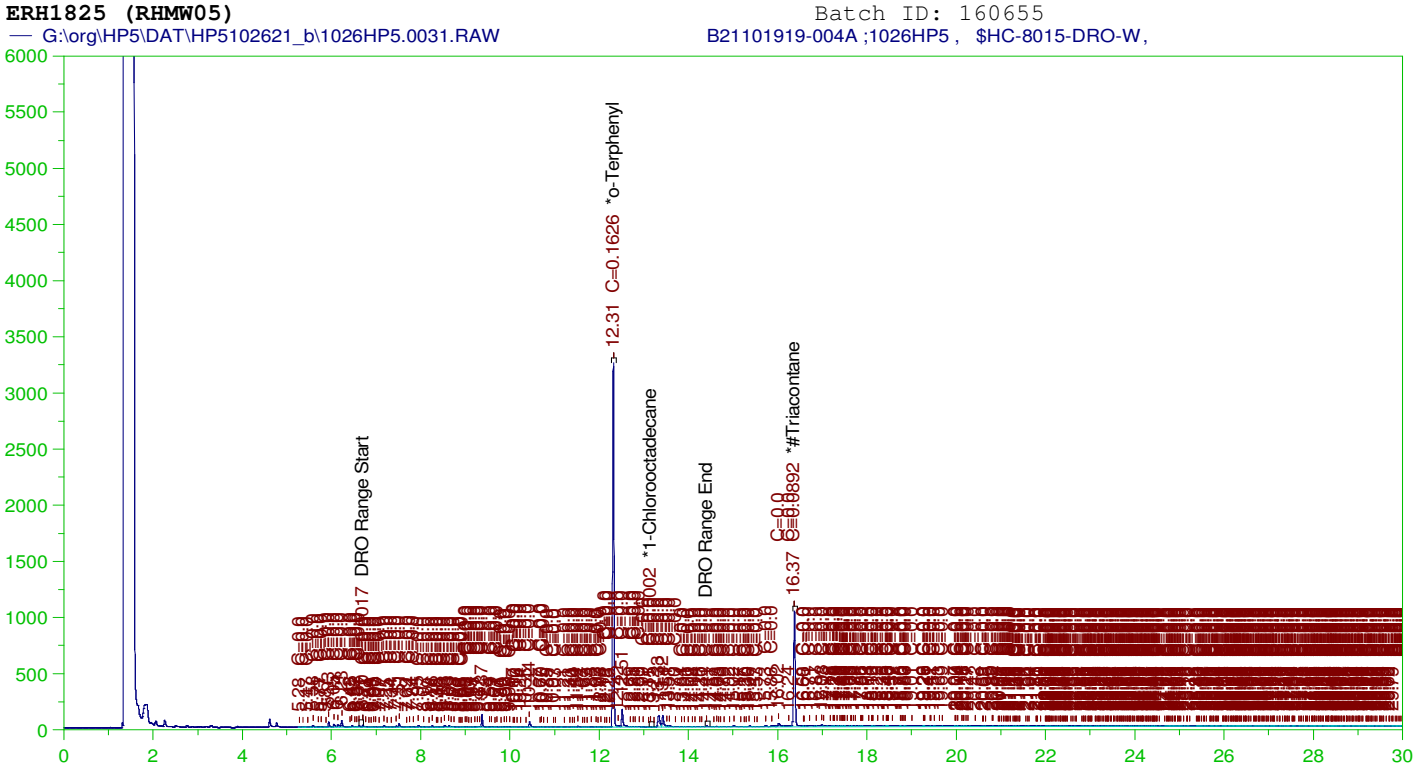
Sample Name: B21101919-003A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0033.RAW
Date & Time Acquired: 10/27/2021 6:56:06 AM
Method File: G:\Org\HP5\Methods\D3_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.371 | .474 | .092 | 19.4 | - |

RRO Area:8567023 RRO AMOUNT: 0.284503

**ERH1825 (RHMW05)** Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-004A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0031.RAW
Date & Time Acquired: 10/27/2021 5:29:36 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

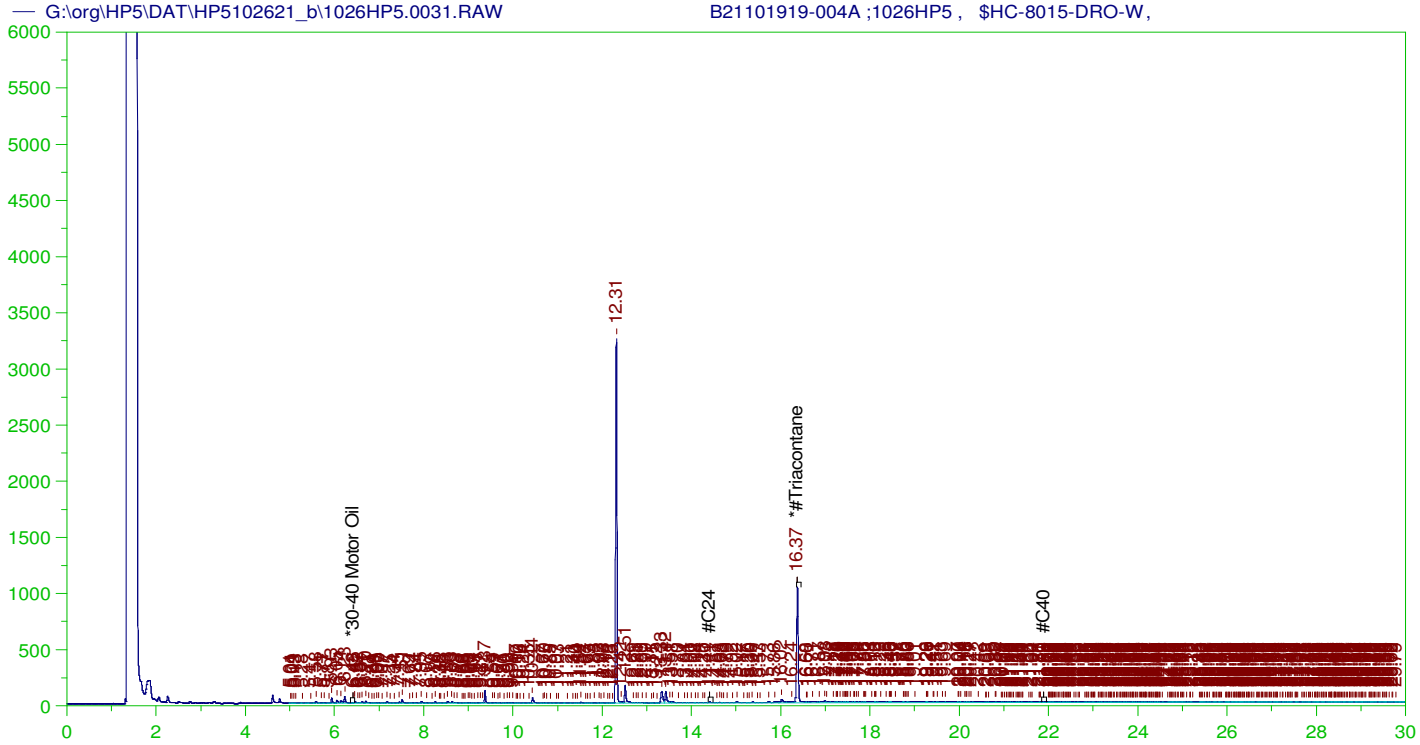
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .19 | .163 | 85.8 | - |
| *1-Chlorooctadecane | 13.152 | .19 | . | .11 | - |
| *#Triacontane | 16.369 | .19 | .089 | 47.07 | - |

DRO Area:2815652 DRO Amount: 9.060103E-02
TEH Area:9045457 TEH Amount: 0.2910614

**ERH1825 (RHMW05)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0031.RAW B21101919-004A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-004A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0031.RAW
Date & Time Acquired: 10/27/2021 5:29:36 AM
Method File: G:\Org\HP5\Methods\D3_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

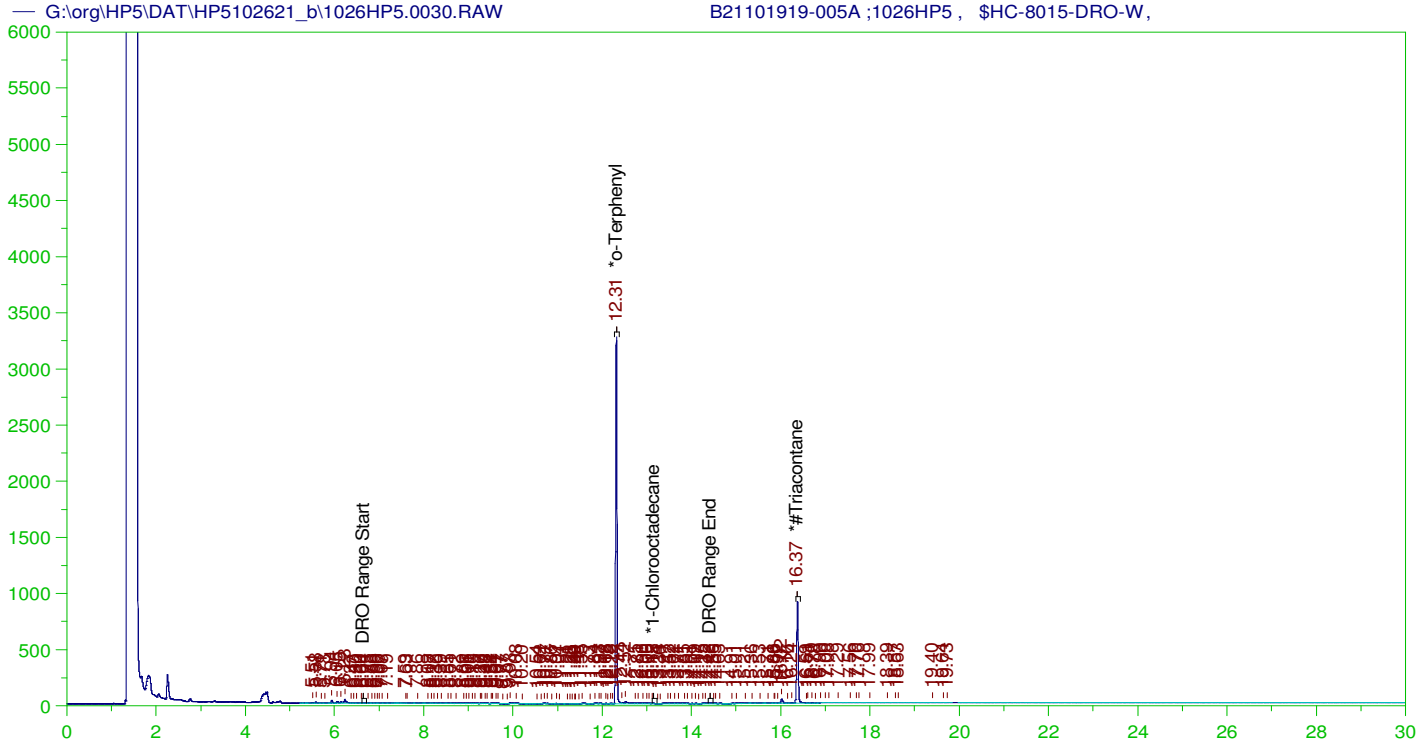
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.369 | .474 | .089 | 18.83 | - |

RRO Area:4014951 RRO AMOUNT: 0.1333328

**ERH1837 (RHMW2254-01)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0030.RAW B21101919-005A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-005A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0030.RAW
Date & Time Acquired: 10/27/2021 4:46:20 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

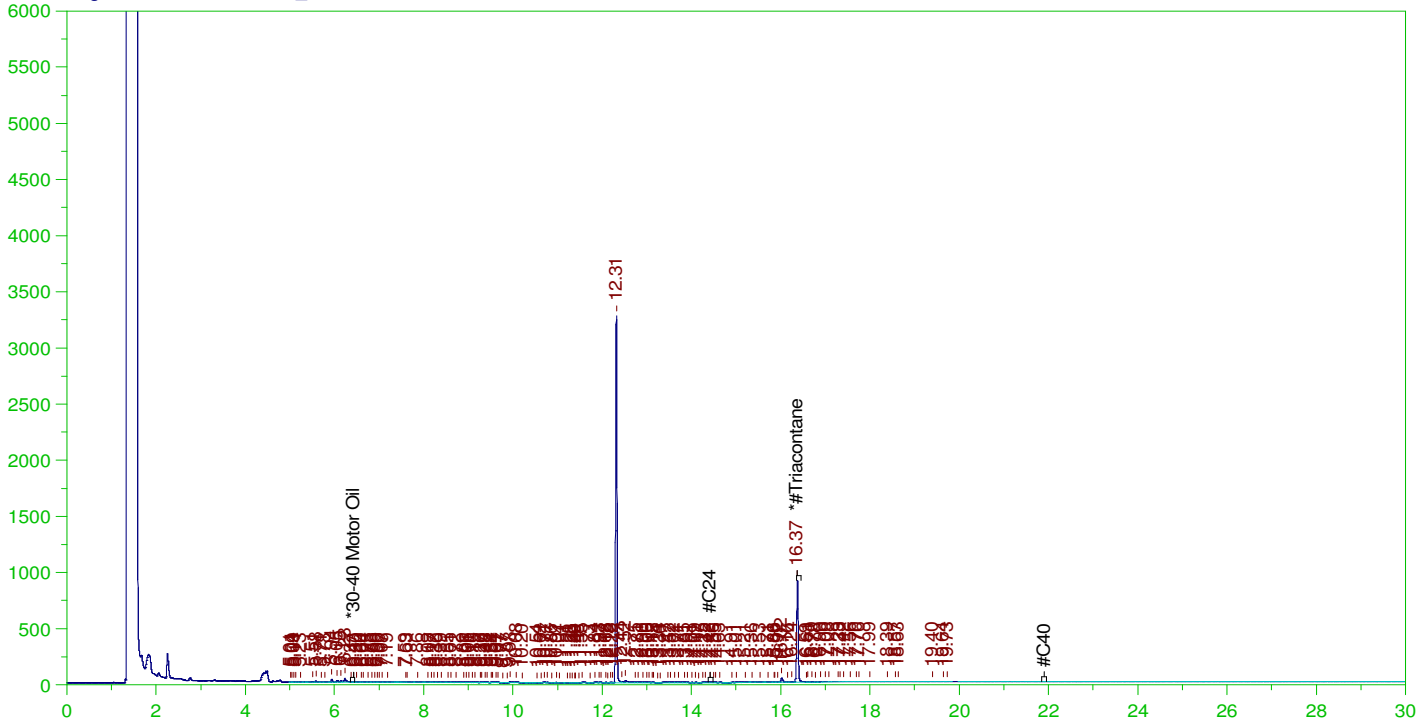
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .19 | .166 | 86.95 | - |
| *1-Chlorooctadecane | 13.154 | .19 | . | .03 | - |
| *#Triacontane | 16.37 | .19 | .076 | 39.92 | - |

DRO Area:514204.3 DRO Amount: 1.662467E-02
TEH Area:1153930 TEH Amount: 3.730756E-02

**ERH1837 (RHMW2254-01)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0030.RAW B21101919-005A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

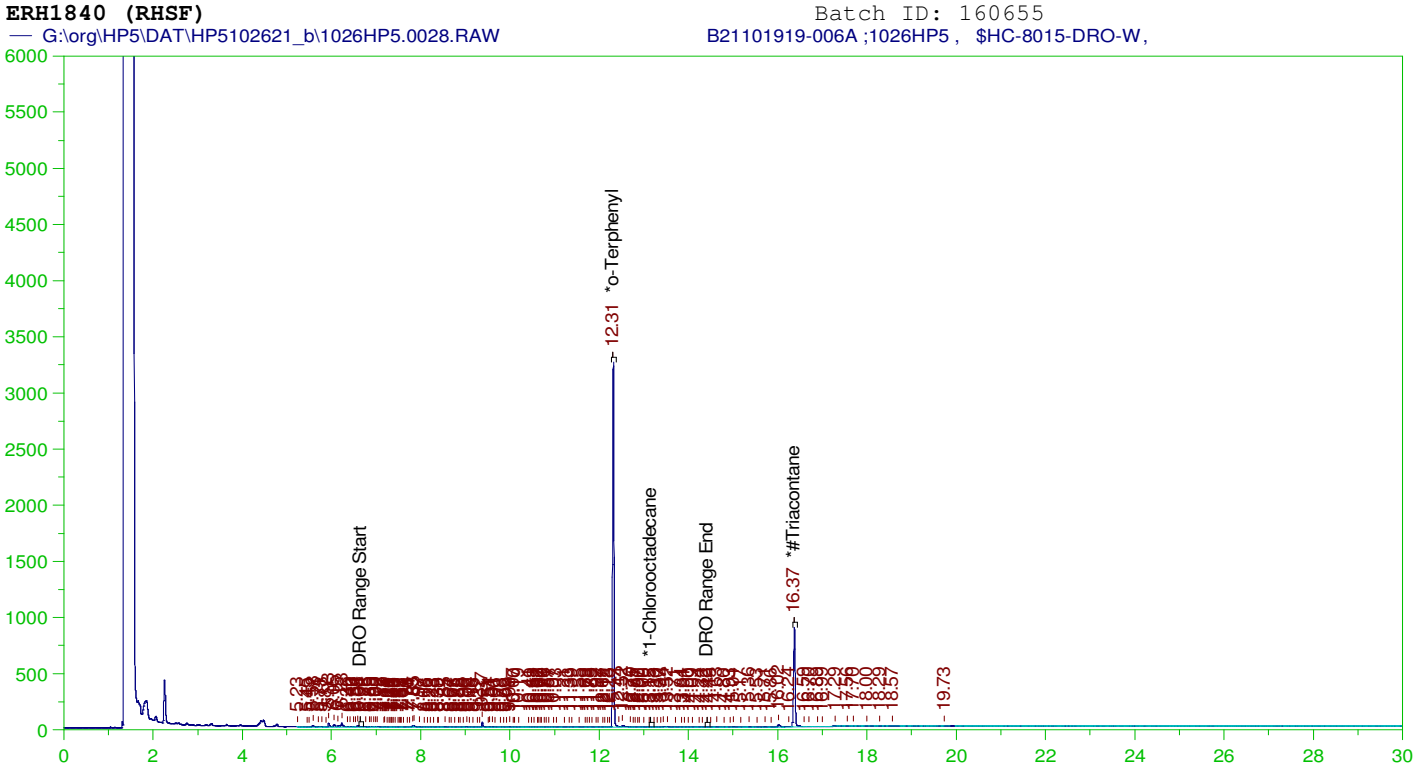
Sample Name: B21101919-005A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0030.RAW
Date & Time Acquired: 10/27/2021 4:46:20 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.37 | .476 | .076 | 15.97 | - |

RRO Area:245902.8 RRO AMOUNT: 8.205093E-03

**ERH1840 (RHSF)** Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-006A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0028.RAW
Date & Time Acquired: 10/27/2021 3:19:55 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

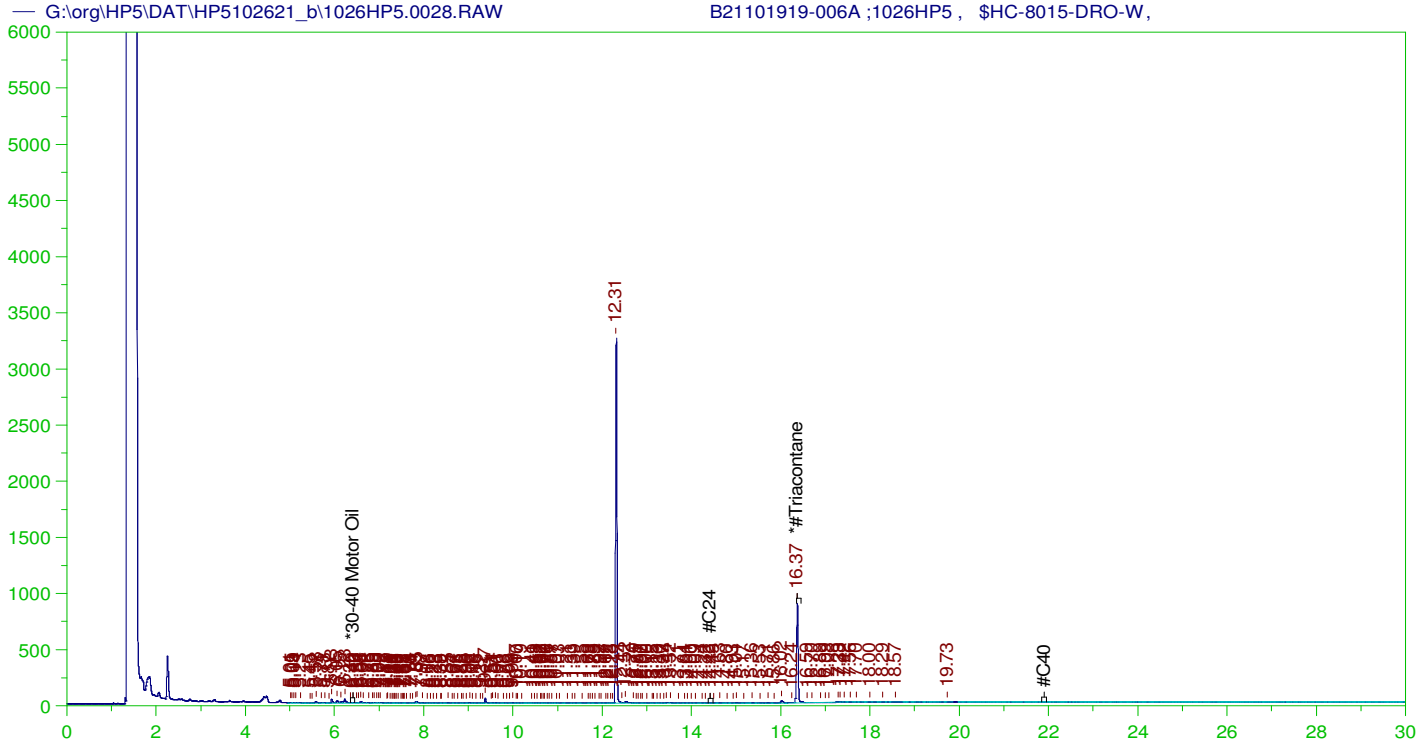
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .196 | .171 | 87.3 | - |
| *1-Chlorooctadecane | 13.151 | .196 | . | .05 | - |
| *#Triacontane | 16.368 | .196 | .077 | 39.43 | - |

DRO Area:715177 DRO Amount: 2.380236E-02
TEH Area:1340086 TEH Amount: 4.460045E-02

**ERH1840 (RHSF)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0028.RAW B21101919-006A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-006A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0028.RAW
Date & Time Acquired: 10/27/2021 3:19:55 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

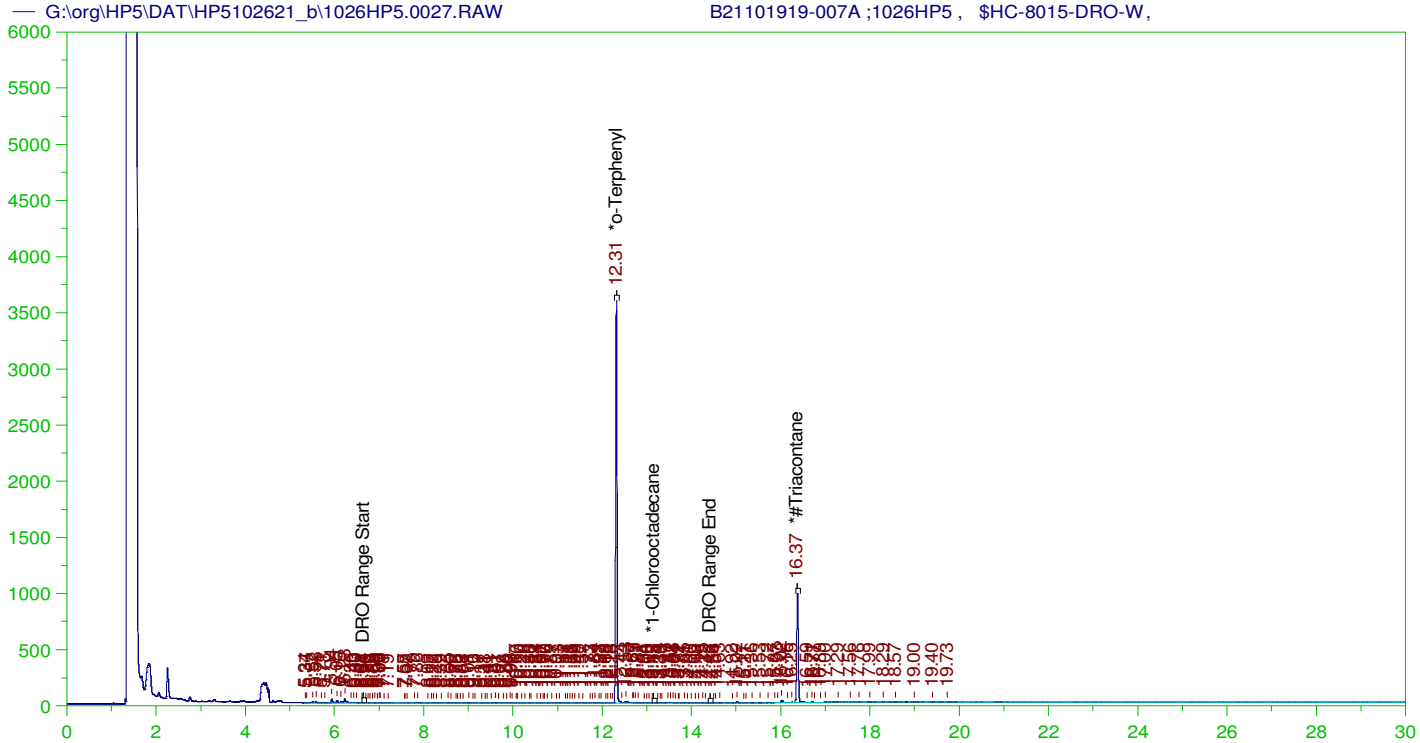
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.368 | .49 | .077 | 15.77 | - |

RRO Area:192914 RRO AMOUNT: 6.626329E-03

**ERH1842 (RHSF)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0027.RAW B21101919-007A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-007A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0027.RAW
Date & Time Acquired: 10/27/2021 2:36:41 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

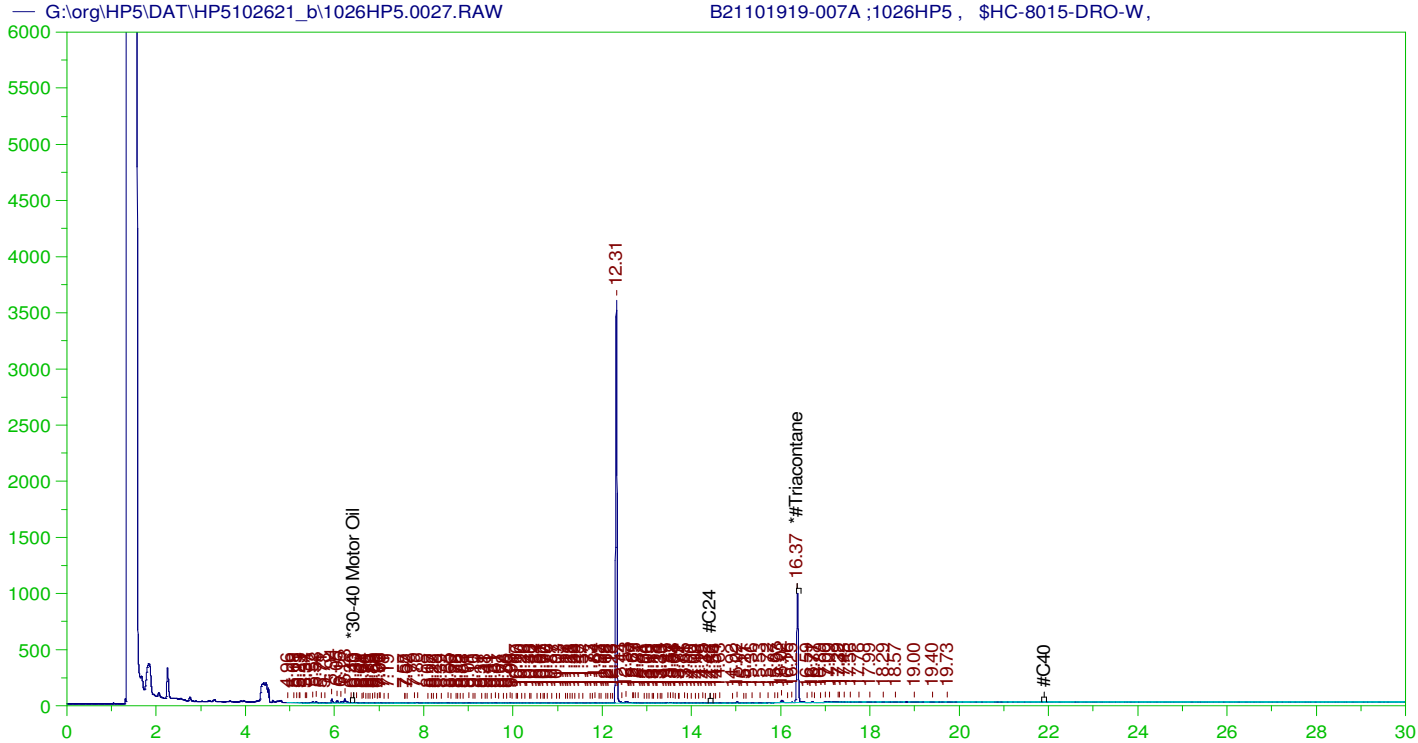
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.314 | .196 | .187 | 95.18 | - |
| *1-Chlorooctadecane | 13.154 | .196 | . | .04 | - |
| *#Triacontane | 16.372 | .196 | .085 | 43.48 | - |

DRO Area:516911.8 DRO Amount: 1.720374E-02
TEH Area:1167730 TEH Amount: 3.886411E-02

**ERH1842 (RHSF)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0027.RAW B21101919-007A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-007A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0027.RAW
Date & Time Acquired: 10/27/2021 2:36:41 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

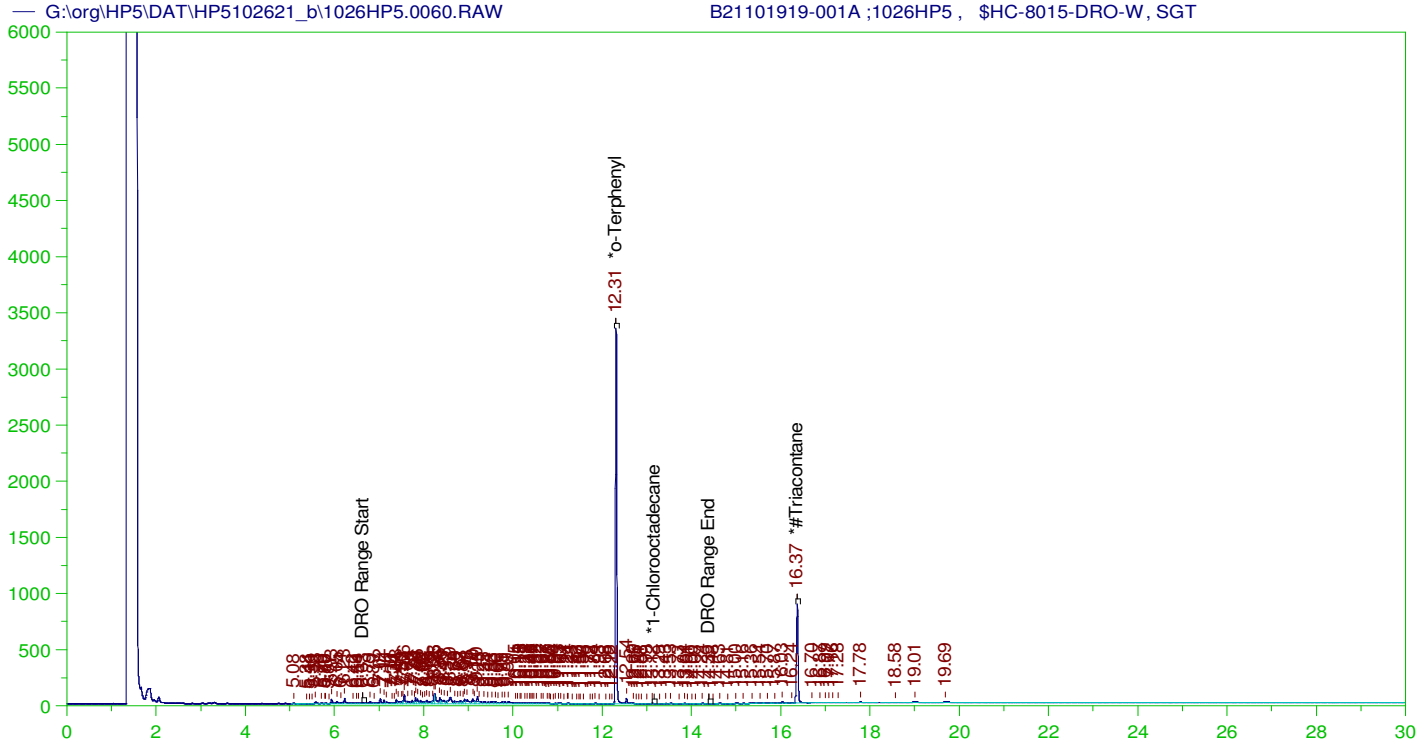
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | .49 | .085 | 17.39 | - |

RRO Area:218733.5 RRO AMOUNT: 7.513192E-03

**ERH1834 (RHMW01R)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0060.RAW B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0060.RAW
Date & Time Acquired: 10/28/2021 2:15:28 AM
Method File: G:\Org\HP5\Methods\DR_8015-102659-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

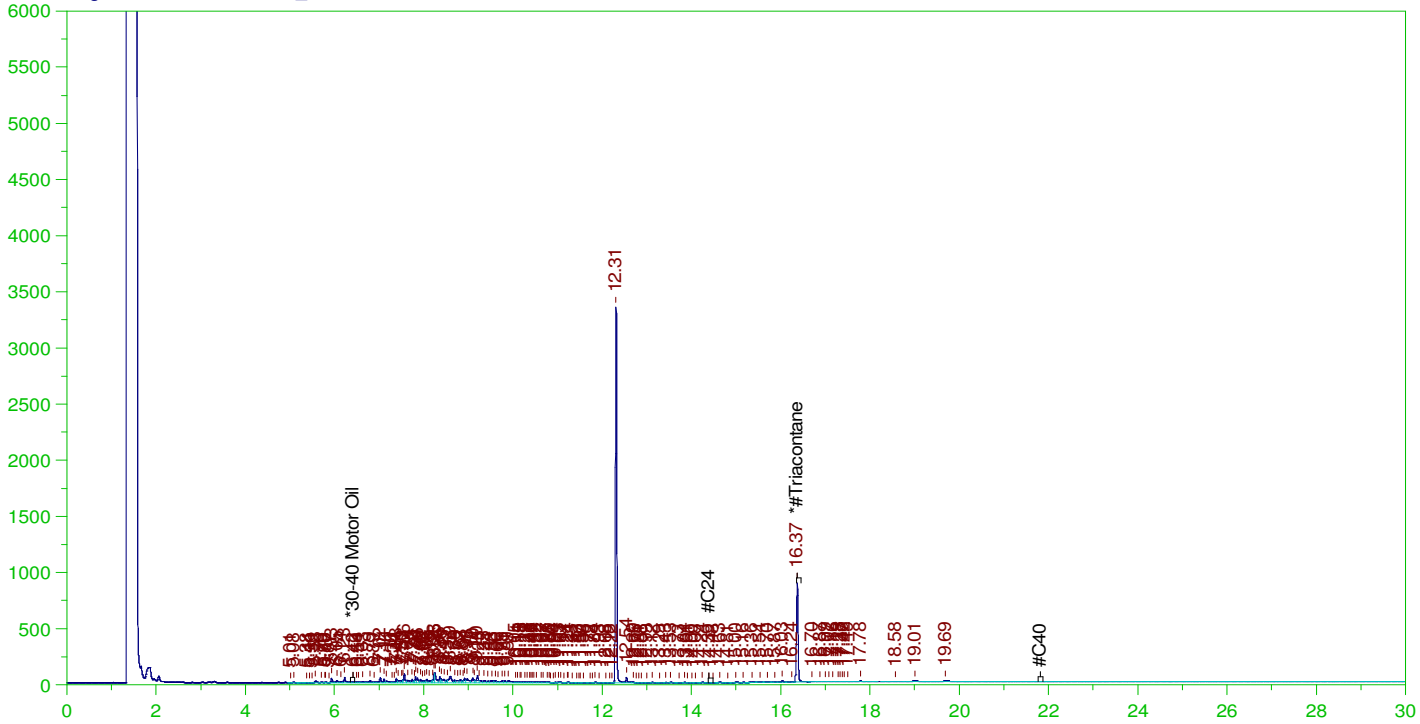
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.309 | .192 | .175 | 90.93 | - |
| *1-Chlorooctadecane | 29.965 | .192 | . | . | - |
| *#Triacontane | 16.365 | .192 | .078 | 40.52 | - |

DRO Area:4240949 DRO Amount: 0.138432
TEH Area:4798575 TEH Amount: 0.1566338

**ERH1834 (RHMW01R)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0060.RAW B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0060.RAW
Date & Time Acquired: 10/28/2021 2:15:28 AM
Method File: G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017ABb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

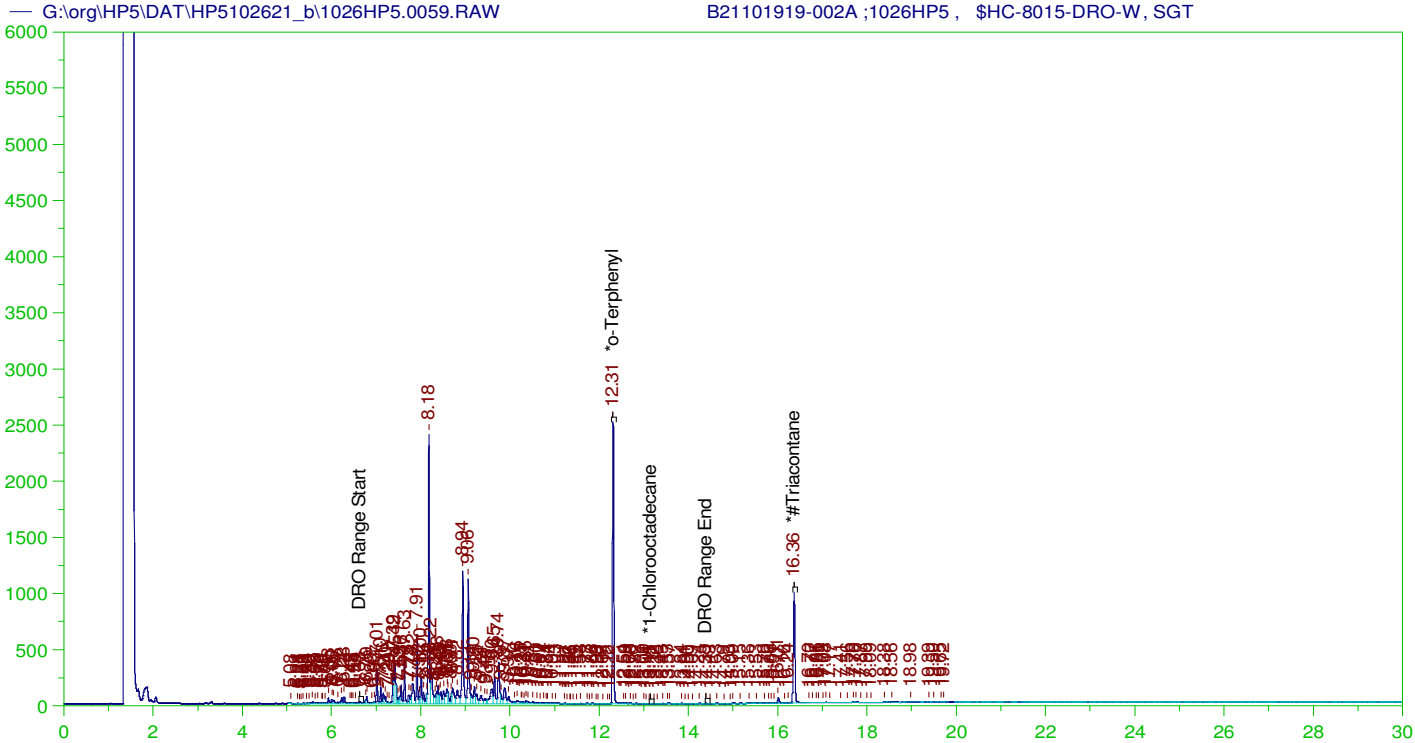
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.87

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.365 | .481 | .078 | 16.21 | - |

RRO Area:183866.4 RRO AMOUNT: 6.194102E-03

**ERH1828 (RHMW02)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0059.RAW B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0059.RAW
Date & Time Acquired: 10/28/2021 1:32:30 AM
Method File: G:\Org\HP5\Methods\DR_8015-102659-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

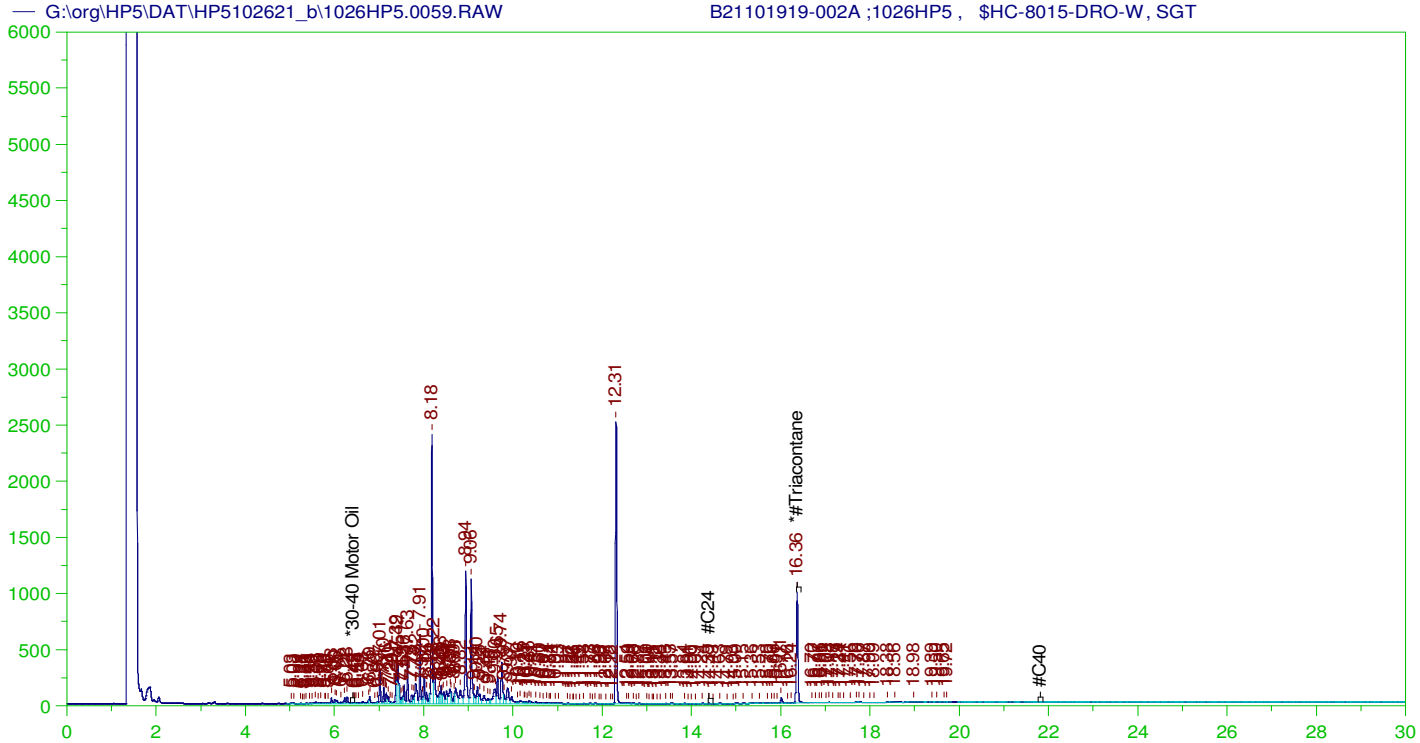
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.308 | .19 | .132 | 69.23 | - |
| *1-Chlorooctadecane | 13.149 | .19 | . | .03 | - |
| *#Triacontane | 16.364 | .19 | .085 | 44.44 | - |

DRO Area:2.438099E+07 DRO Amount: 0.7882586
TEH Area:2.540223E+07 TEH Amount: 0.821276

**ERH1828 (RHMW02)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0059.RAW B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0059.RAW
Date & Time Acquired: 10/28/2021 1:32:30 AM
Method File: G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017ABb-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

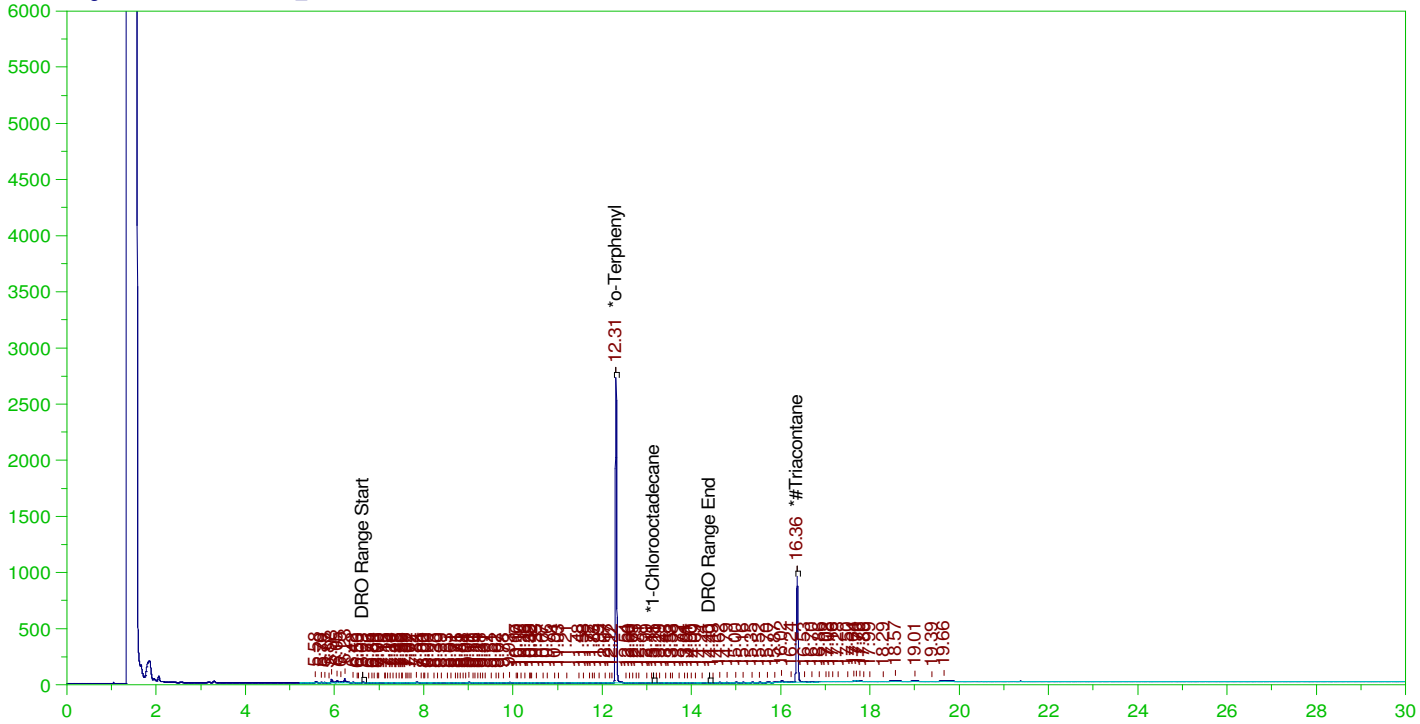
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.87

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.364 | .476 | .085 | 17.77 | - |

RRO Area:312423.6 RRO AMOUNT: 1.042471E-02

**ERH1831 (RHMW03)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0056.RAW B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0056.RAW
Date & Time Acquired: 10/27/2021 11:23:25 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

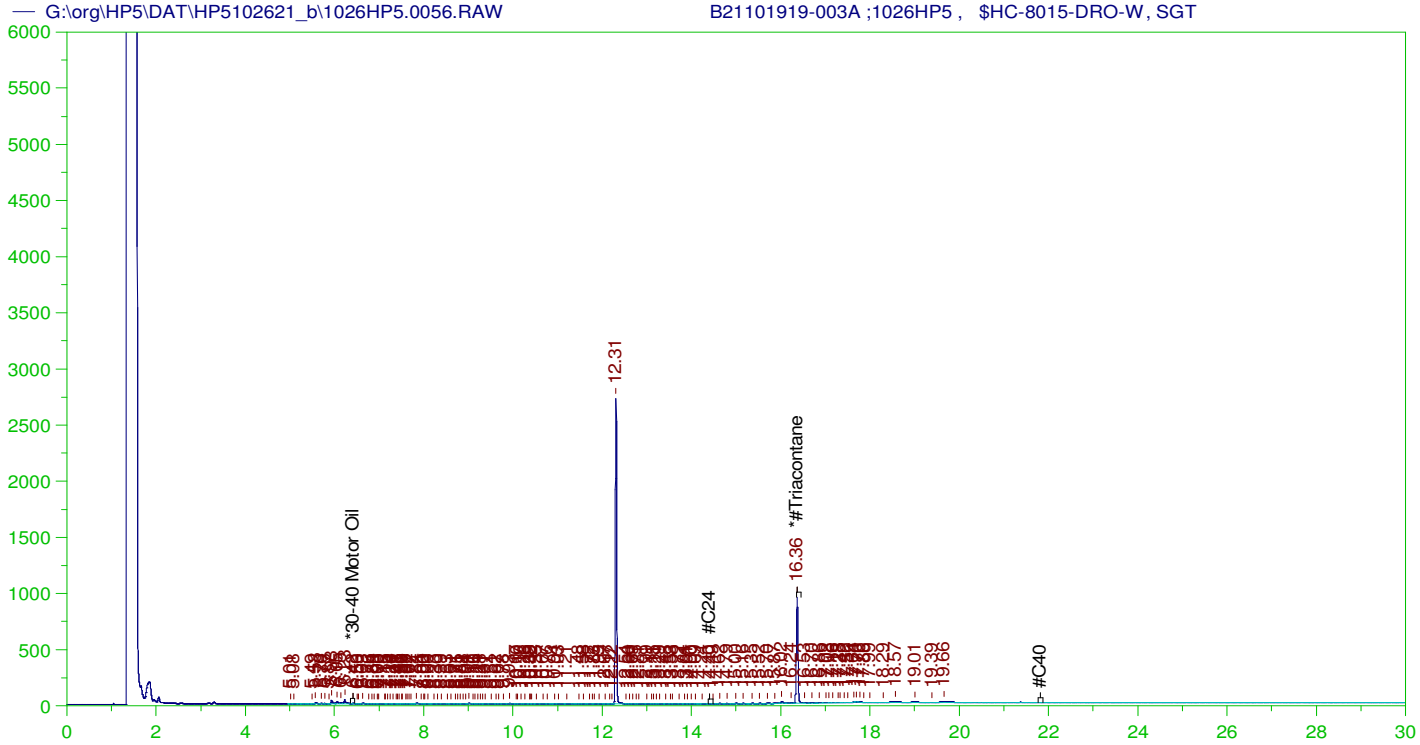
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.306 | .19 | .141 | 74.21 | - |
| *1-Chlorooctadecane | 13.146 | .19 | . | .03 | - |
| *#Triacontane | 16.364 | .19 | .08 | 42.02 | - |

DRO Area:347065.9 DRO Amount: 1.116776E-02
TEH Area:1097498 TEH Amount: 0.0353149

**ERH1831 (RHMW03)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0056.RAW B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0056.RAW
Date & Time Acquired: 10/27/2021 11:23:25 PM
Method File: G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017ABb-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

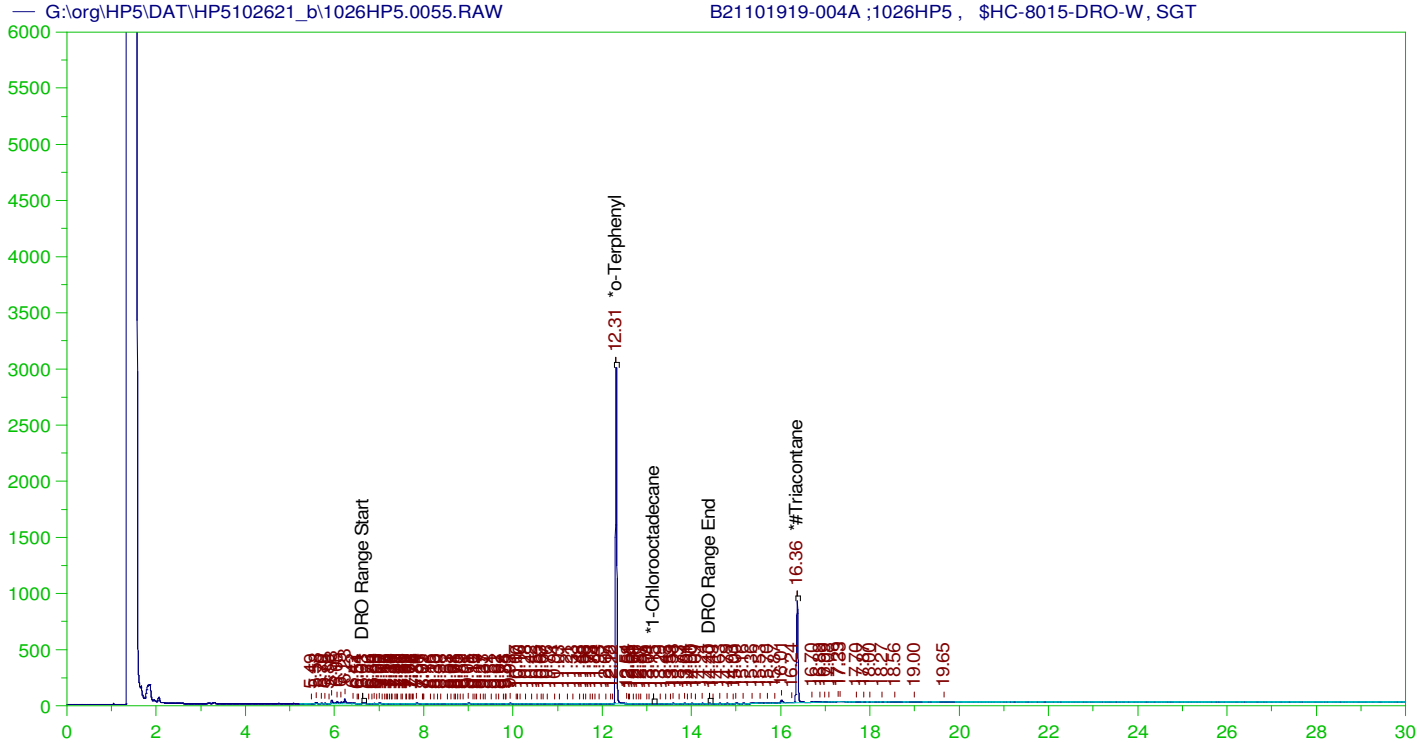
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.87

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.364 | .474 | .08 | 16.81 | - |

RRO Area:393999.2 RRO AMOUNT: 1.308435E-02

**ERH1825 (RHMW05)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0055.RAW B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0055.RAW
Date & Time Acquired: 10/27/2021 10:40:17 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

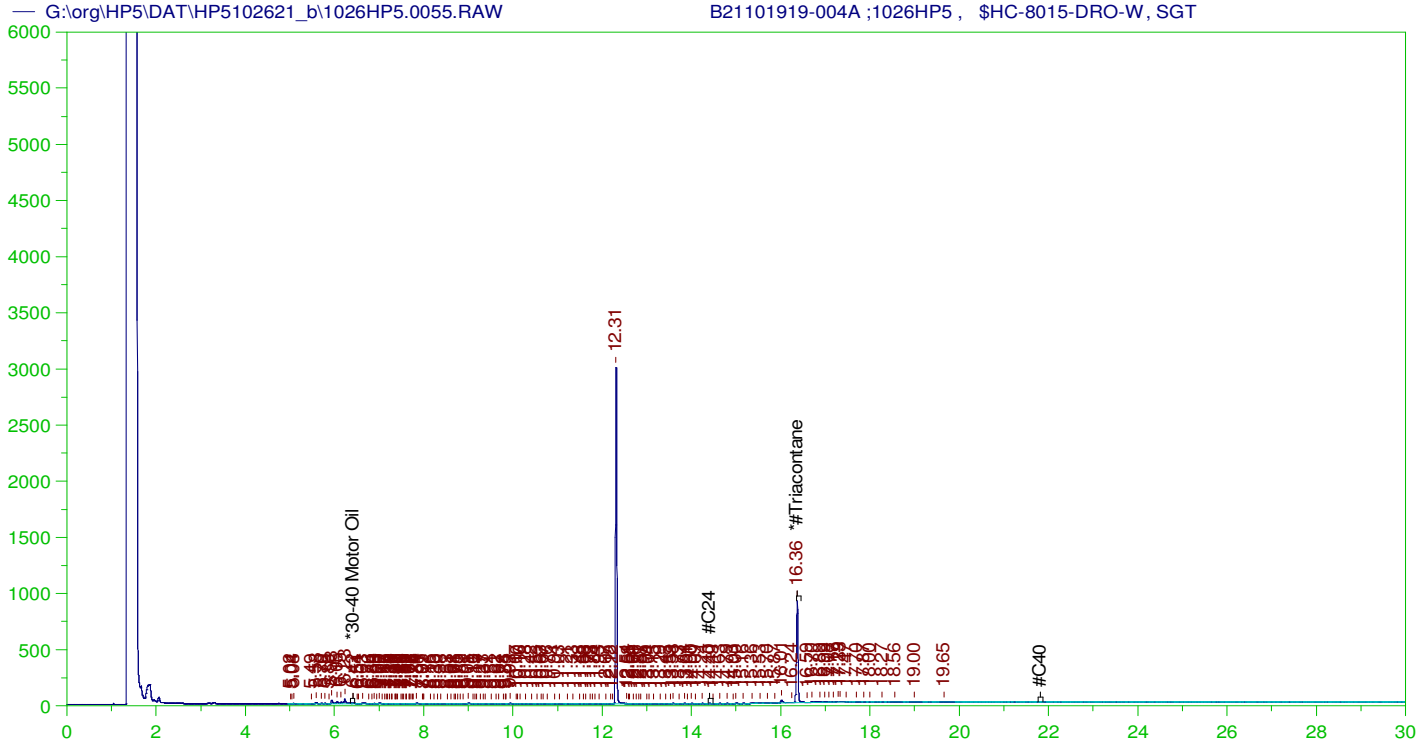
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.31 | .19 | .153 | 80.89 | - |
| *1-Chlorooctadecane | 13.148 | .19 | . | .1 | - |
| *#Triacontane | 16.365 | .19 | .076 | 40.18 | - |

DRO Area:366748.8 DRO Amount: 1.180111E-02
TEH Area:1029127 TEH Amount: 3.311487E-02

**ERH1825 (RHMW05)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0055.RAW B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0055.RAW
Date & Time Acquired: 10/27/2021 10:40:17 PM
Method File: G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017ABb-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.87

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.365 | .474 | .076 | 16.13 | - |

RRO Area:337937.8 RRO AMOUNT: 0.0112226

**From:** Ramos, Alethea <alethea.ramos@aecom.com>
**Sent:** Friday, November 05, 2021 10:37 PM
**To:** Shari Endy
**Cc:** Pascua, Margie; Hart, Jeff
**Subject:** CV18F0126: CUI_SDGs Requiring Revisions by 11/10

CUI

Hi Shari,

The only revision needed for SDGs indicated in both "Revisions Needed by 11/10" and "Additional Revisions" list is to revise Level 2 Reports to reflect J-flagged detects above the DL. For SDG B21100834, if you could also provide the Level 4 and Level 2 report, that would be greatly appreciated. In "GOOD NO REVISIONS NEEDED" list, those reports are complete. Revised Level 2 reports for SDGs listed under the "Revisions Needed By 11/10" list will be provided to Navy in the RRR Quarterly Report that is due on 11/10 to go through internal review. It was good talking to you and the Energy team today!

**Revisions/Reports Needed By 11/10**
B21092272
B21100125
B21100166
B21100828
B21100834 (missing L4)
B21100806

**Additional Revisions**
B21101306
B21101919

**GOOD NO REVISIONS NEEDED**
B21092273
B21092370
B21100022
B21092660
B21100147
B21100126
B21100171
B21100756
B21100824
B21100827

Have a good weekend,

**Alethea Ramos, CIH**
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CUI

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*07-May-21*

**Run ID** GCFID-HP5-B_210108B

**Run Start Date:** 1/8/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** NEW ICAL
SW8015C_DRO210108HA.CAL

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO200917B | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CALS | 12/31/2021 |
| DRO201210A | #2 Diesel in Acetone 150,000 ug/mL | | | | | SECOND S | 6/10/2021 |
| DRO210105B | EPH (4) SURR-1000 ug/mL ea. in Hexane | | | | | SURRS | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154799 | CCV_0108HP51 | HC-8015-DRO- | CAL1 | | 1/8/2021 2:21:25 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 0.1350772 | | 0.15 | 0 | 0 | 0.0499 | 0.3 | 50 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154800 | CCV_0108HP51 | HC-8015-DRO- | CAL2 | | 1/8/2021 3:03:30 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 3.865478 | | 3.75 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154801 | CCV_0108HP51 | HC-8015-DRO- | CAL3 | | 1/8/2021 3:45:32 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 15.3786 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154802 | CCV_0108HP51 | HC-8015-DRO- | CAL4 | | 1/8/2021 4:27:38 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 39.10215 | | 37.5 | 0 | 0 | 0.0499 | 0.3 | 50 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154803 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 5:09:49 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 50.03634 | | 50 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154804 | CCV_0108HP50 | HC-8015-DRO- | CAL1 | | 1/8/2021 5:52:15 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.00201784 | | 0.002 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154805 | CCV_0108HP50 | HC-8015-DRO- | CAL2 | | 1/8/2021 6:34:45 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.04980491 | | 0.05 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154806 | CCV_0108HP50 | HC-8015-DRO- | CAL3 | | 1/8/2021 7:17:18 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.2027571 | | 0.2 | 0 | 0 | 0.000327 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154807 | CCV_0108HP50 | HC-8015-DRO- | CAL4 | | 1/8/2021 7:59:52 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.4989882 | | 0.5 | 0 | 0 | 0.000327 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154808 | CCV_0108HP51 | HC-8015-DRO- | CAL5 | | 1/8/2021 8:42:33 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.9852039 | | 1 | 0 | 0 | 0.000327 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14154809 | CCV_0108HP51 | HC-8015-DRO- | ICV | | 1/8/2021 9:25:08 | 1 | R354713 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | A | mg/L | | 14.94195 | | 15 | 0 | 0 | 0.0499 | 0.3 | 50 | 100% | 80 | 120 | 0% | |

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 |
| :\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Version: 6

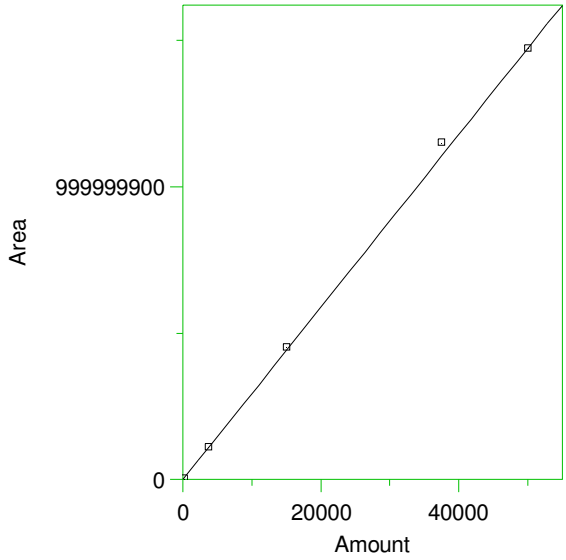
Creator: AMN 1/11/2021
Description: DRO-8015C. New ICal Per 0108HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




| | |
|---|---|
| Expected retention time: | 6.82 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

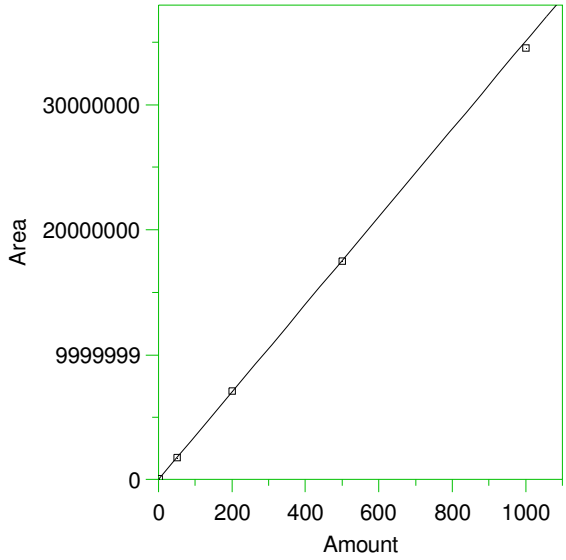
Y = 29457.33 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9985872 |
| Average error: | 3.979% |
| Average CF: | 29457.33 |
| RSD: | 5.768% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 3979014 | 26526.76 | -9.949 | Manual | 1/11/2021 9:46:00 AM |
| 2 | 3750 | 1.138667E+08 | 30364.46 | 3.079 | Manual | 1/11/2021 9:46:09 AM |
| 3 | 15000 | 4.530125E+08 | 30200.83 | 2.524 | Manual | 1/11/2021 9:46:18 AM |
| 4 | 37500 | 1.151845E+09 | 30715.87 | 4.272 | Manual | 1/11/2021 9:46:27 AM |
| 5 | 50000 | 1.473937E+09 | 29478.74 | 0.073 | Manual | 1/11/2021 9:46:39 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.57 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

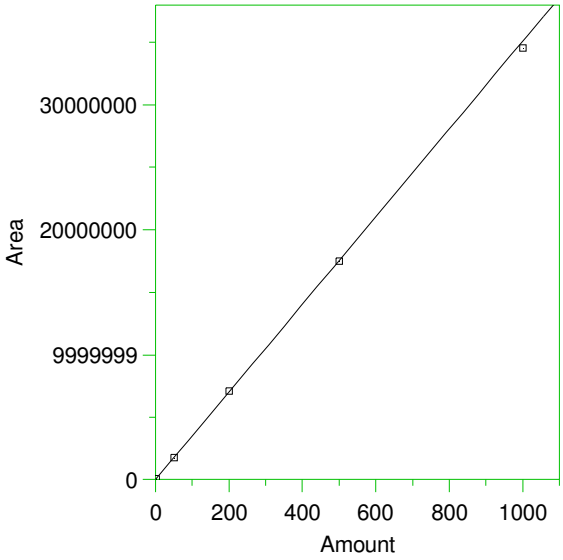
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 13.36 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

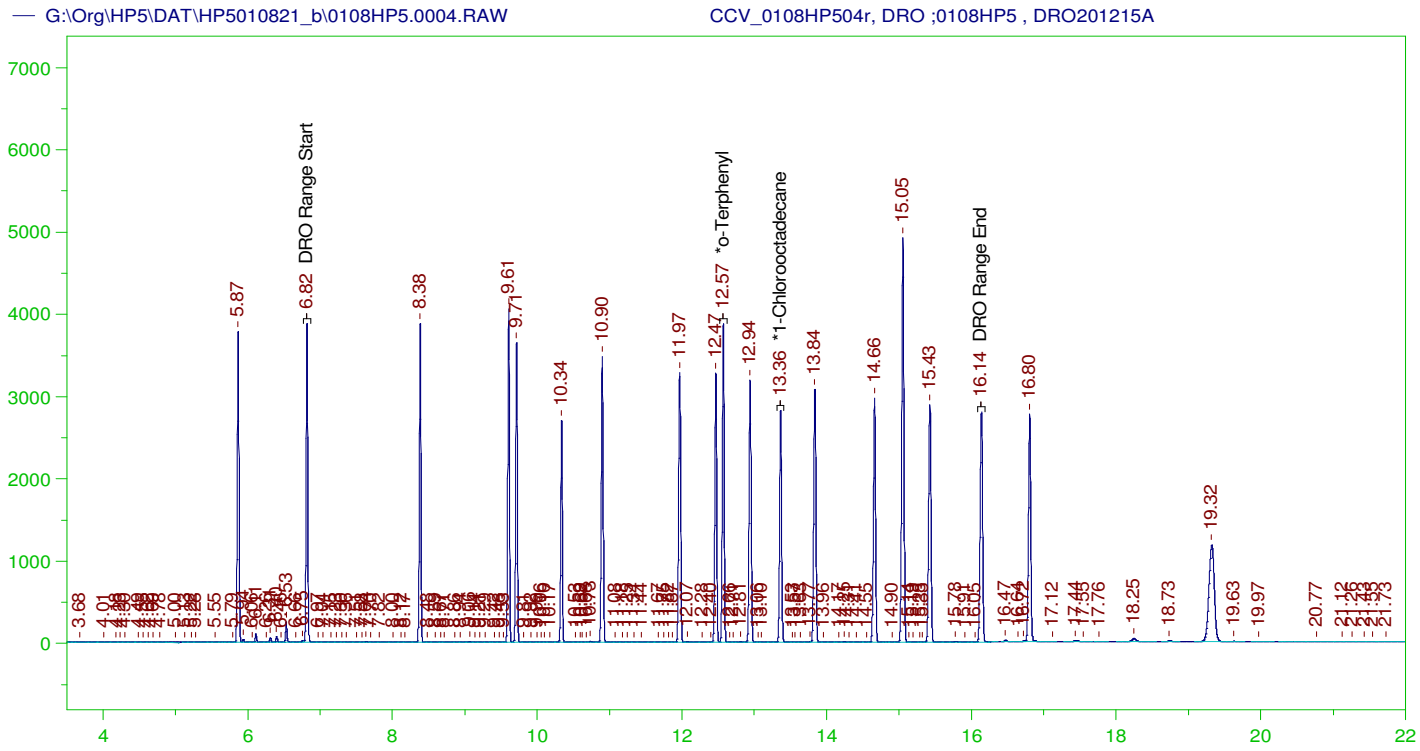
Single peak quantification by area

Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP504r, DRO ;0108HP5 , DRO201215A
Raw File: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW
Date & Time Acquired: 1/8/2021 12:47:29 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | - |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | - |

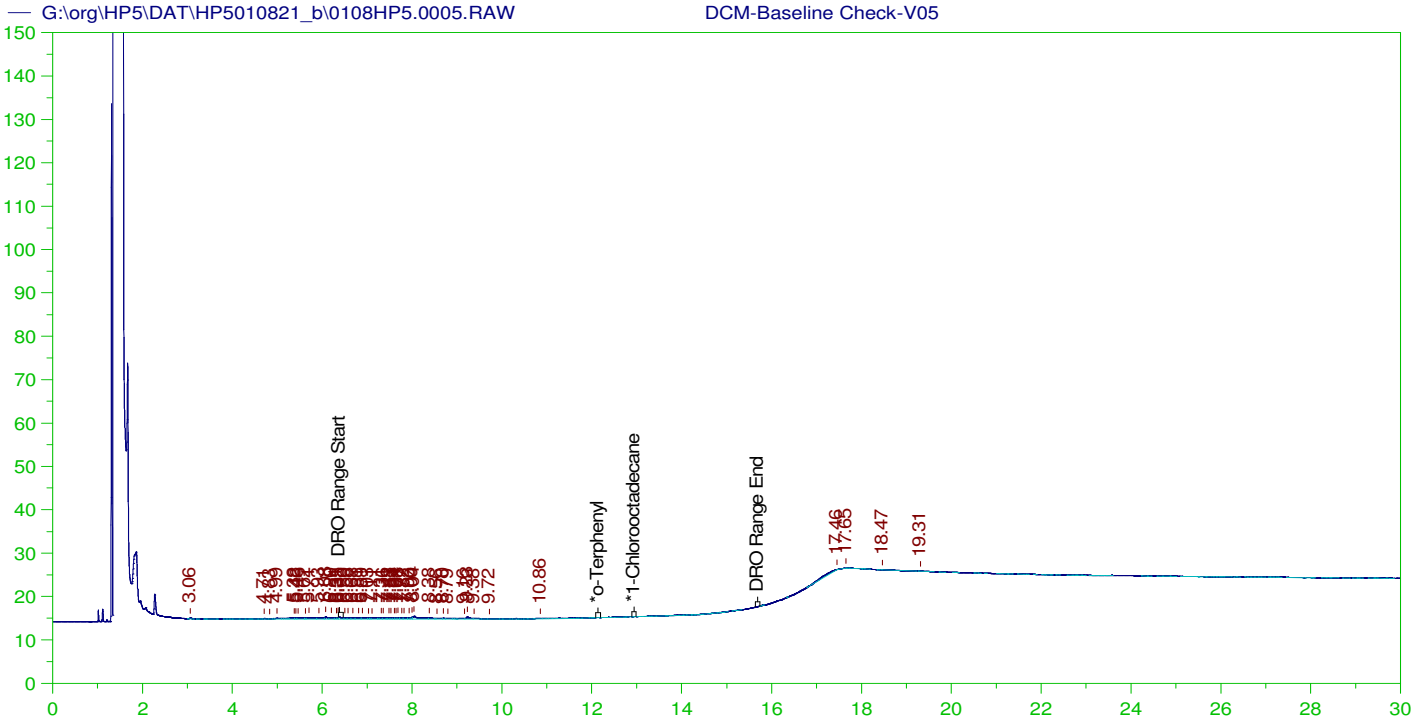
DRO Area:8.880706E+07 DRO Amount: 3014.77
TEH Area:1.082932E+08 TEH Amount: 3676.273

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5010821_b\0108HP5.0004.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3676.27 | 24.51 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 197.718 | 98.86 | 85-115 |
| *1-Chlorooctadecane | 13.364 | 200. | 156.111 | 78.06 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\004_CCV_0108HP504r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

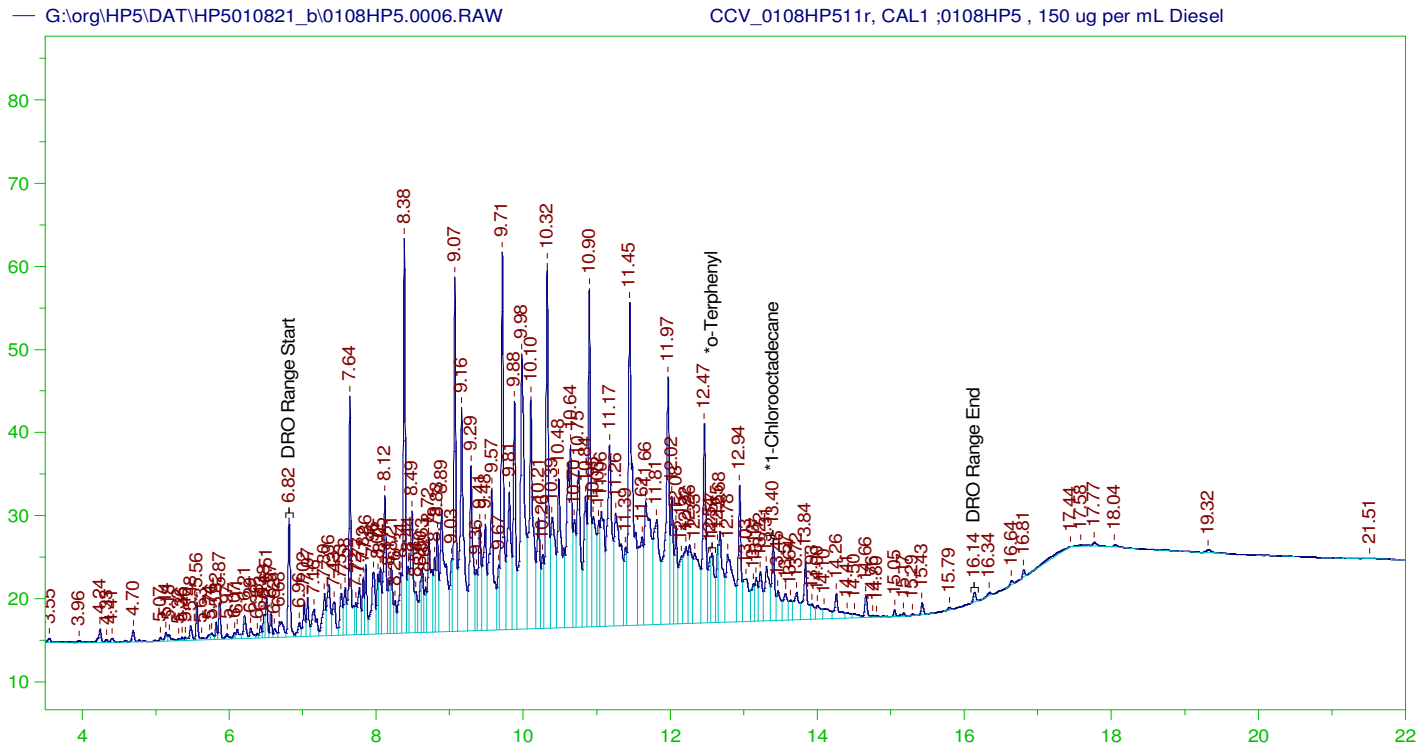
Sample Name: DCM-Baseline Check-V05
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0005.RAW
Date & Time Acquired: 1/8/2021 1:29:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-GX-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO200123GX.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28963.21
Rt range for Diesel Range Organics: 6.36 to 15.74

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.787 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.787 | 200. | . | . | - |

DRO Area:48911.73 DRO Amount: 1.688754
TEH Area:90991.55 TEH Amount: 3.141625

G:\org\HP5\dat\HP5010821_b\Review\005_DCM-Baseline Chec_DR_8015-GX-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW
Date & Time Acquired: 1/8/2021 2:21:25 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | - |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | - |

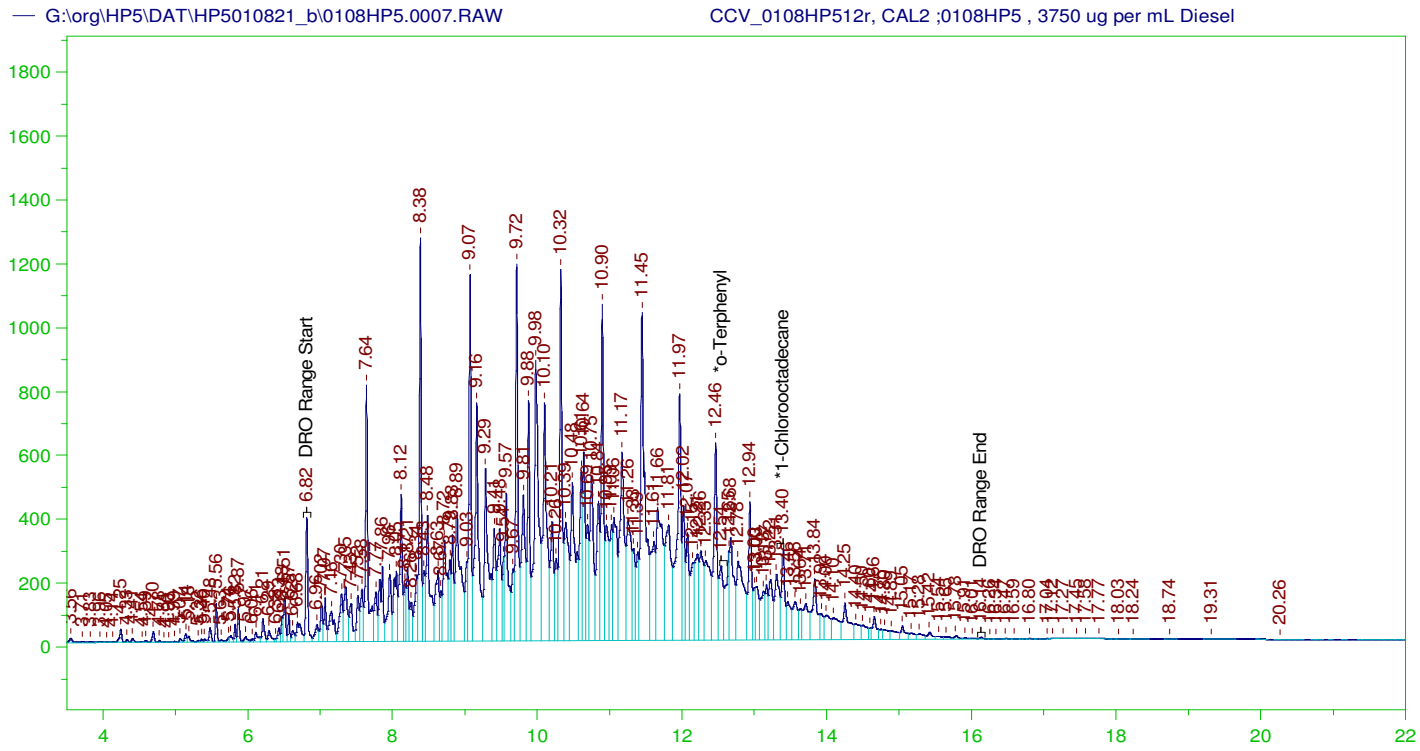
DRO Area:3854036 DRO Amount: 130.8345
TEH Area:3979014 TEH Amount: 135.0772

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 135.08 | .9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.568 | 200. | .738 | .37 | 85-115 |
| *1-Chlorooctadecane | 13.399 | 200. | .796 | .4 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\006_CCV_0108HP511r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW
Date & Time Acquired: 1/8/2021 3:03:30 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | - |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | - |

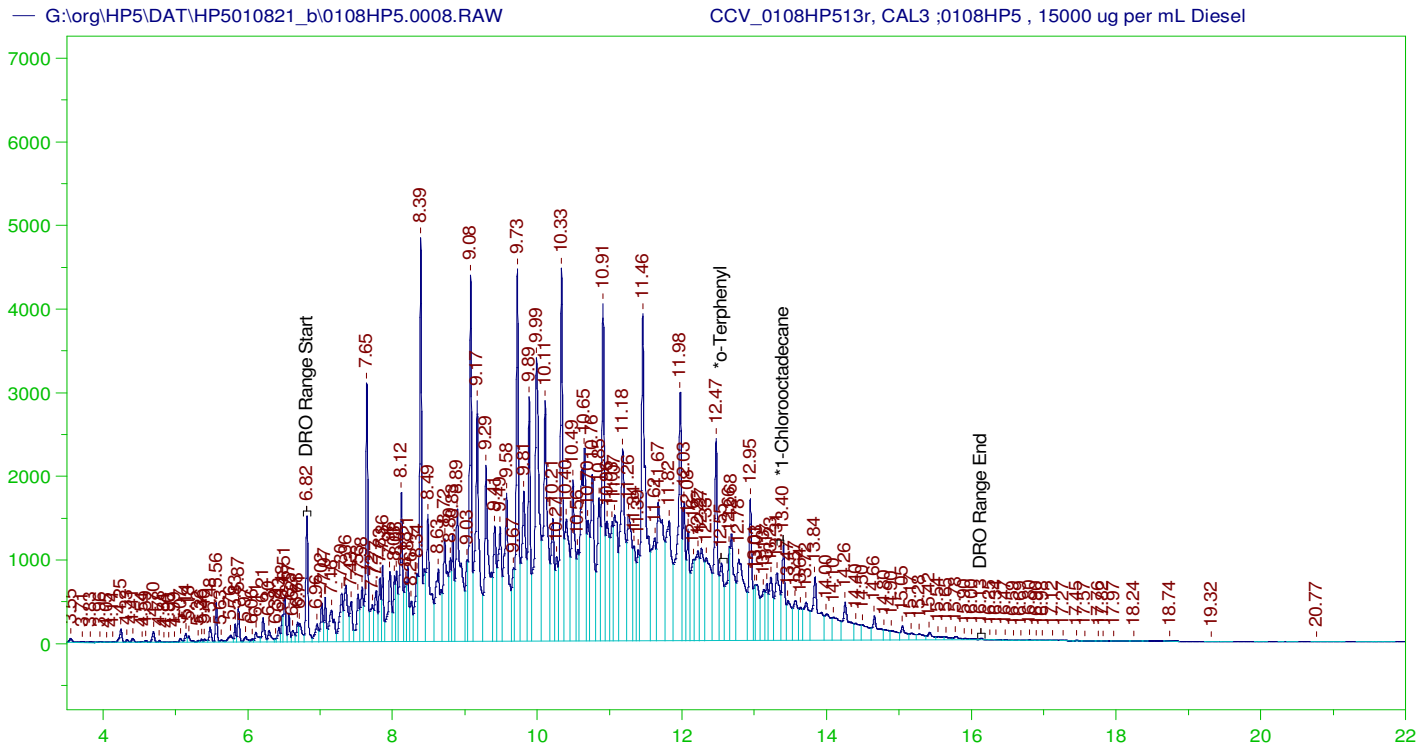
DRO Area:1.111179E+08 DRO Amount: 3772.164
TEH Area:1.138667E+08 TEH Amount: 3865.478

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 3865.48 | 25.77 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.54 | 200. | 26.506 | 13.25 | 85-115 |
| *1-Chlorooctadecane | 13.397 | 200. | 24.988 | 12.49 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\007_CCV_0108HP512r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW
Date & Time Acquired: 1/8/2021 3:45:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | - |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | - |

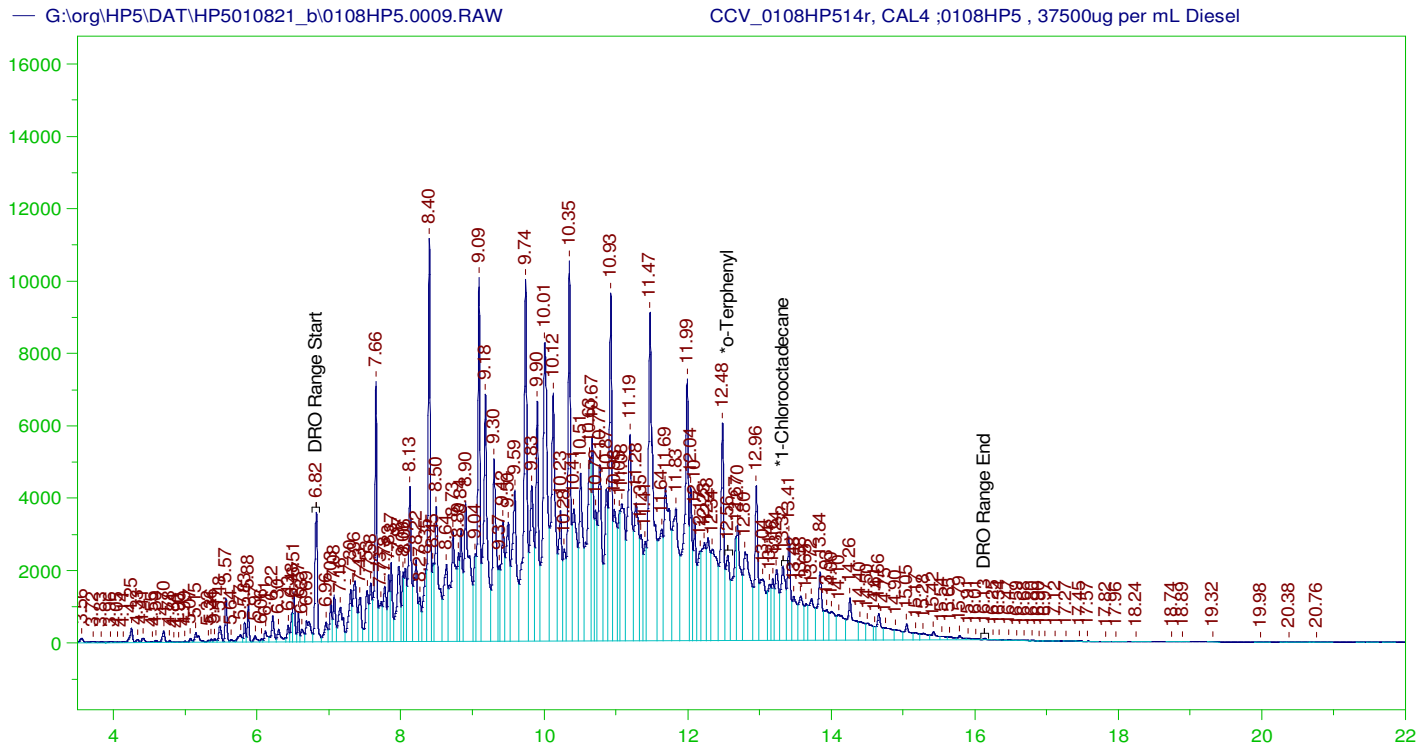
DRO Area:4.420163E+08 DRO Amount: 15005.31
TEH Area:4.530125E+08 TEH Amount: 15378.6

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15378.6 | 102.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.545 | 200. | 101.663 | 50.83 | 85-115 |
| *1-Chlorooctadecane | 13.401 | 200. | 99.24 | 49.62 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\008_CCV_0108HP513r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW
Date & Time Acquired: 1/8/2021 4:27:38 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | - |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | - |

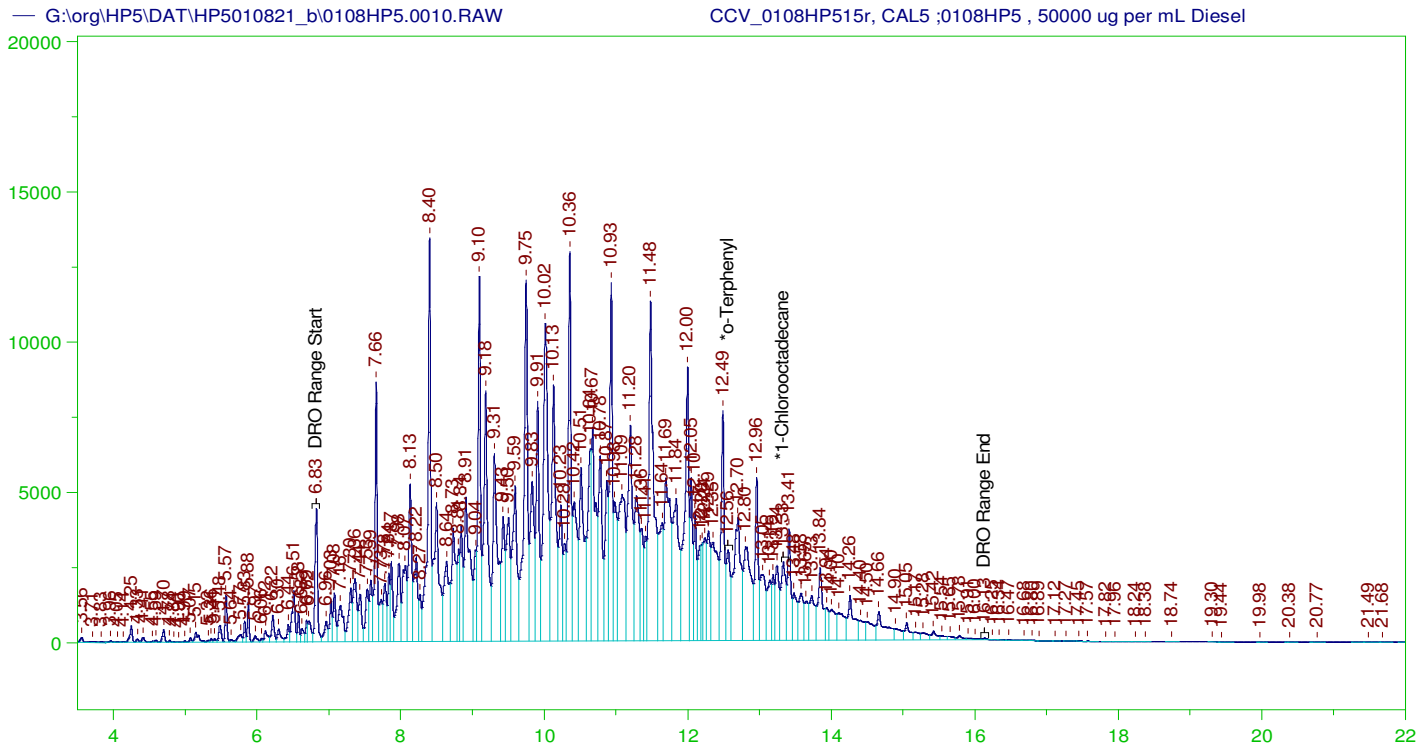
DRO Area:1.1239E+09 DRO Amount: 38153.5
TEH Area:1.151845E+09 TEH Amount: 39102.15

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39102.15 | 260.68 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.557 | 200. | 266.864 | 133.43 | 85-115 |
| *1-Chlorooctadecane | 13.324 | 200. | 269.818 | 134.91 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\009_CCV_0108HP514r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW
Date & Time Acquired: 1/8/2021 5:09:49 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | - |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | - |

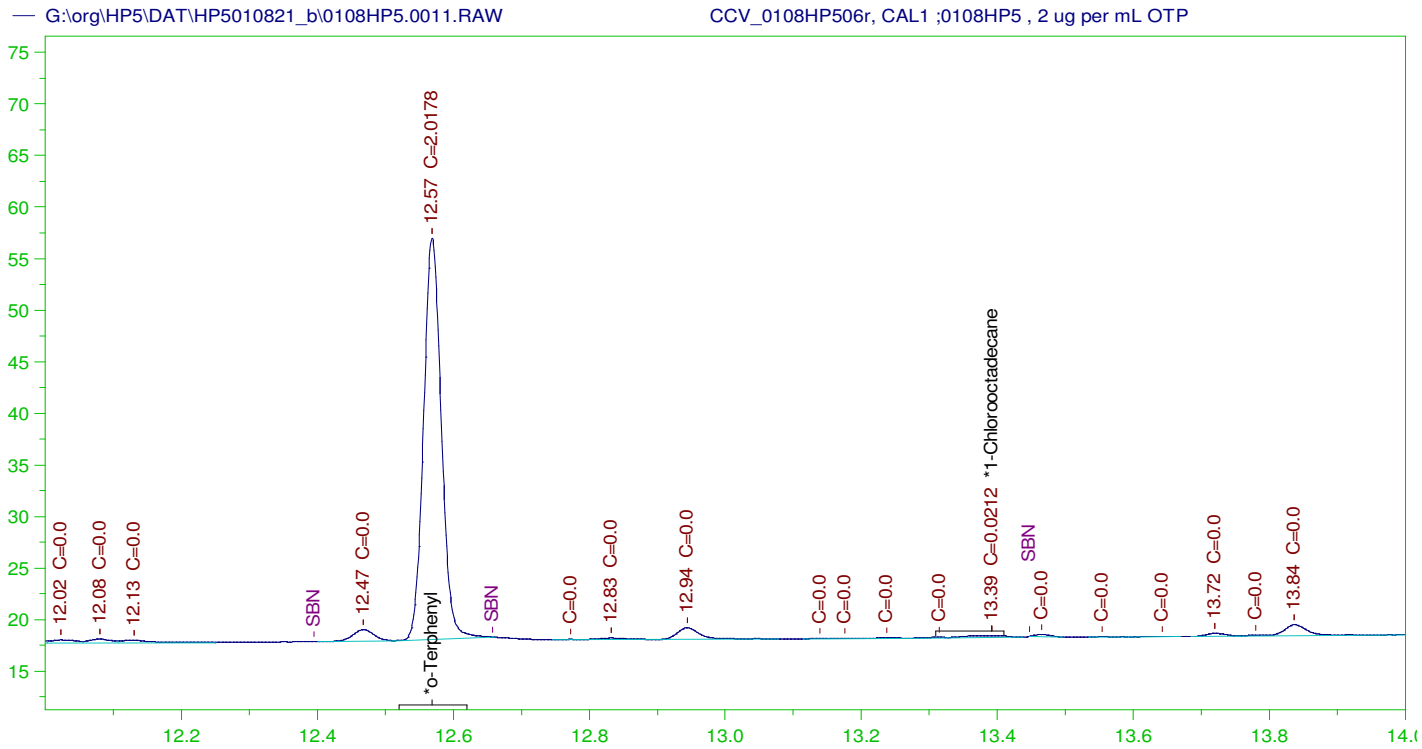
DRO Area:1.438162E+09 DRO Amount: 48821.87
TEH Area:1.473937E+09 TEH Amount: 50036.34

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0010.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 50036.34 | 333.58 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.561 | 200. | 341.952 | 170.98 | 85-115 |
| *1-Chlorooctadecane | 13.329 | 200. | 347.521 | 173.76 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\010_CCV_0108HP515r_DC_8015-HA-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW
Date & Time Acquired: 1/8/2021 5:52:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | - |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | - |

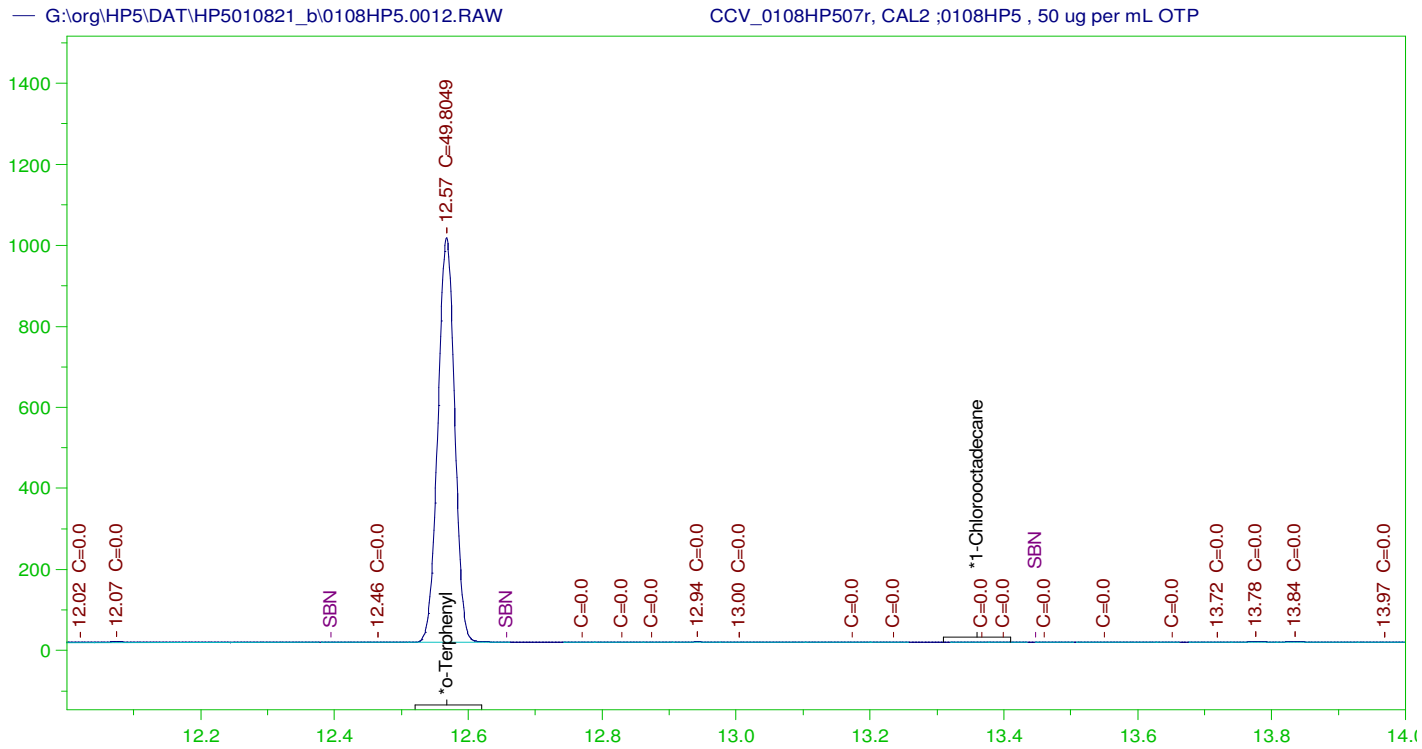
DRO Area:153898.5 DRO Amount: 5.224453
TEH Area:367701.2 TEH Amount: 12.4825

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.569 | 200. | 2.018 | 1.01 | 85-115 |
| *1-Chlorooctadecane | 13.392 | 200. | .021 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\011_CCV_0108HP506r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW
Date & Time Acquired: 1/8/2021 6:34:45 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | - |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | - |

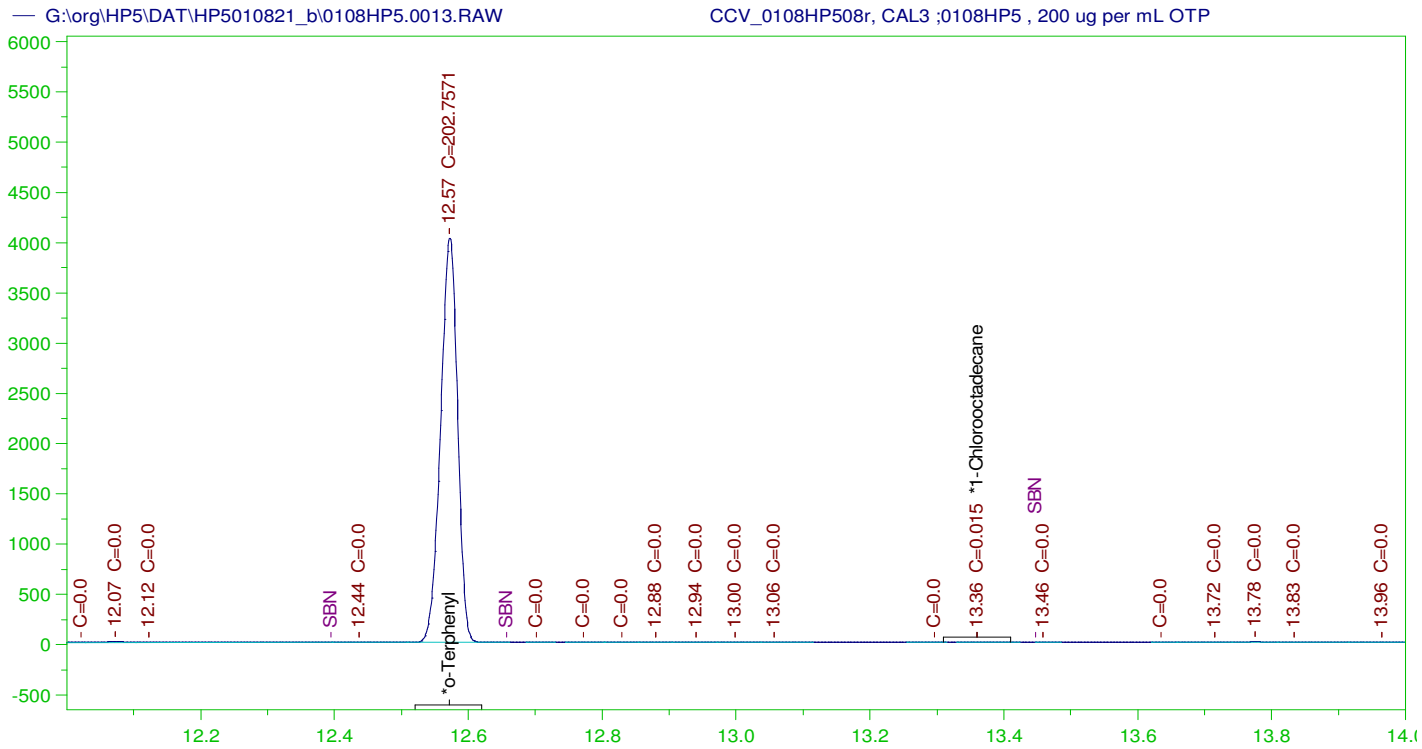
DRO Area:198540.3 DRO Amount: 6.739929
TEH Area:443484.3 TEH Amount: 15.05514

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0012.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | . | . | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.567 | 200. | 49.805 | 24.9 | 85-115 |
| *1-Chlorooctadecane | 15.793 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\012_CCV_0108HP507r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW
Date & Time Acquired: 1/8/2021 7:17:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | - |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | - |

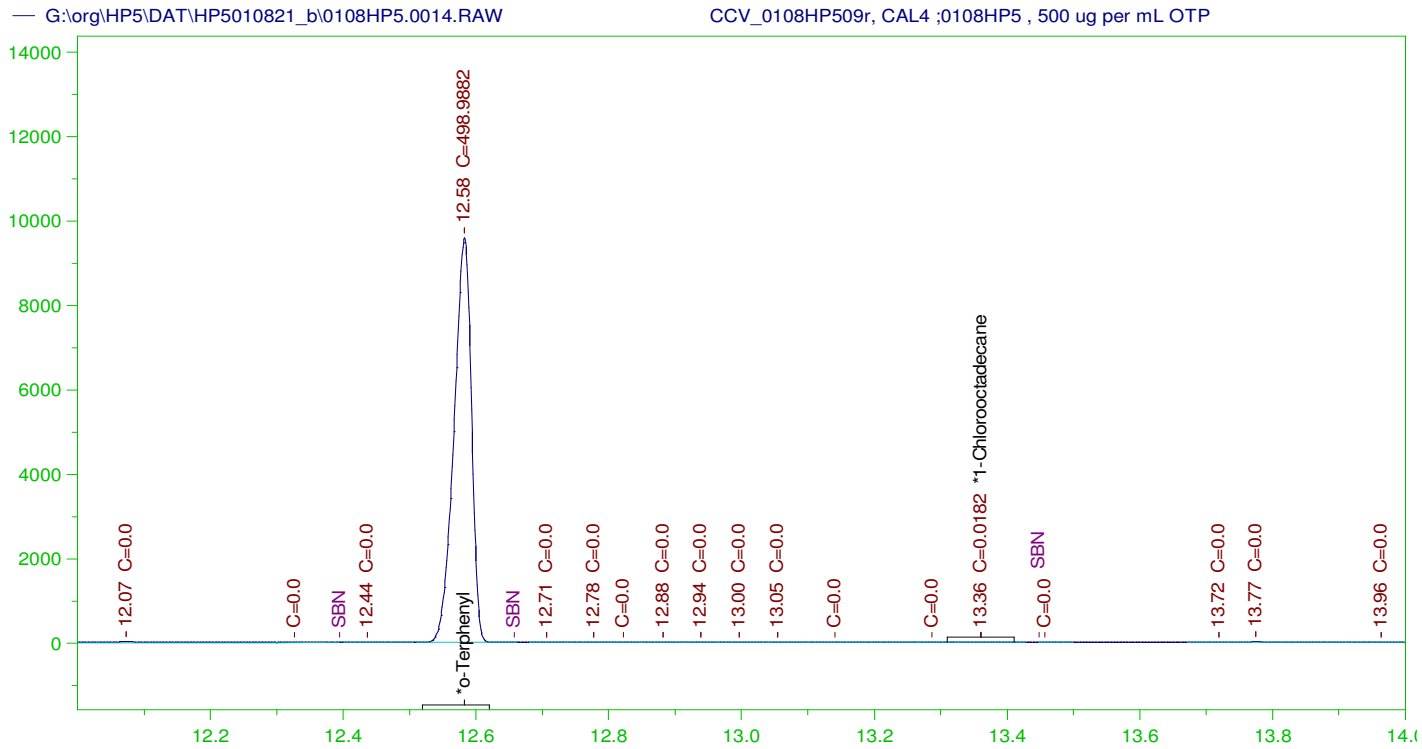
DRO Area:425468.4 DRO Amount: 14.44355
TEH Area:809202.7 TEH Amount: 27.47033

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0013.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 27.47 | .18 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.572 | 200. | 202.757 | 101.38 | 85-115 |
| *1-Chlorooctadecane | 13.36 | 200. | .015 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\013_CCV_0108HP508r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW
Date & Time Acquired: 1/8/2021 7:59:52 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | - |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | - |

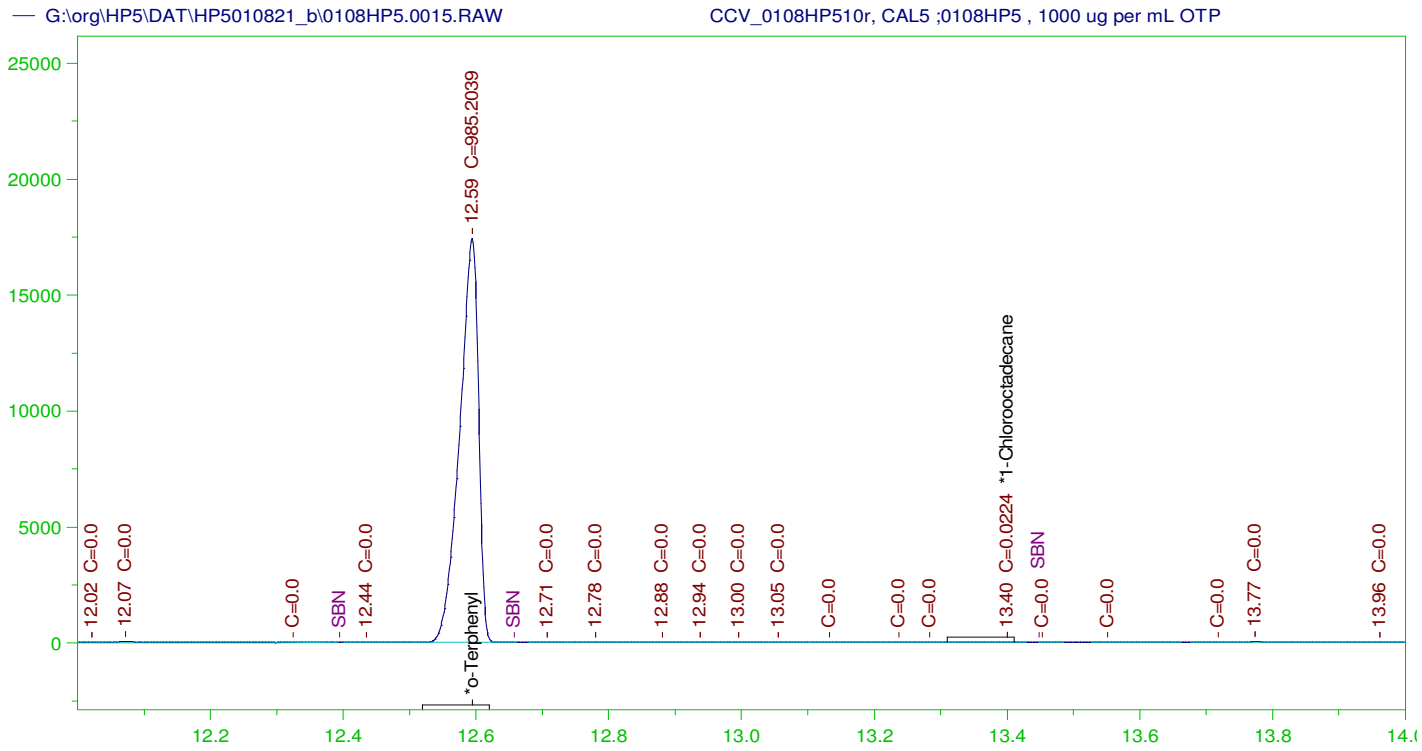
DRO Area:651862.6 DRO Amount: 22.12904
TEH Area:1164840 TEH Amount: 39.5433

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0014.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 39.54 | .26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.583 | 200. | 498.988 | 249.49 | 85-115 |
| *1-Chlorooctadecane | 13.361 | 200. | .018 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\014_CCV_0108HP509r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW
Date & Time Acquired: 1/8/2021 8:42:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-HA-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | - |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | - |

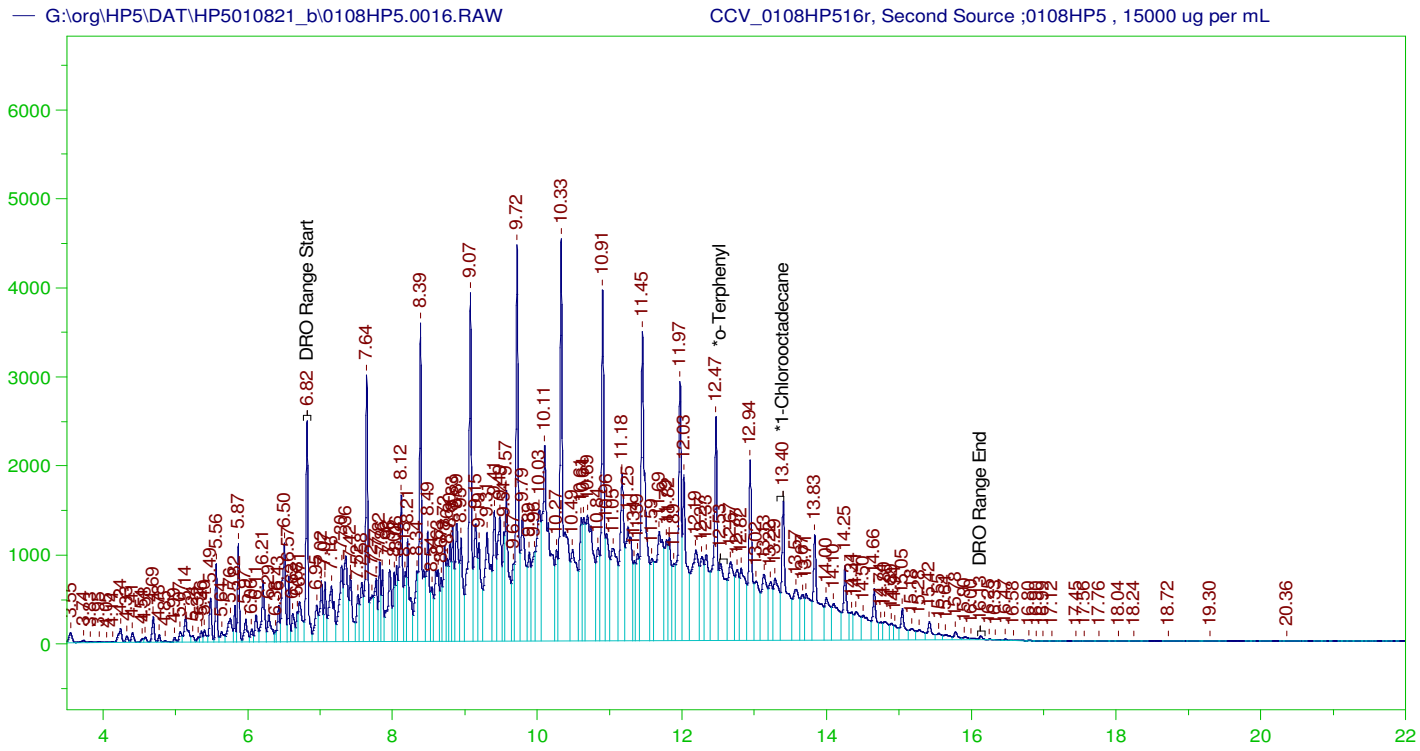
DRO Area:856596.9 DRO Amount: 29.07924
TEH Area:1371563 TEH Amount: 46.561

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 46.56 | .31 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.594 | 200. | 985.204 | 492.6 | 85-115 |
| *1-Chlorooctadecane | 13.4 | 200. | .022 | .01 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\015_CCV_0108HP510r_DS_8015-HA-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL
Raw File: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW
Date & Time Acquired: 1/8/2021 9:25:08 PM
Method File: G:\Org\HP5\Methods\DC_8015-HA-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.77 to 16.19

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | - |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | - |

DRO Area:4.138122E+08 DRO Amount: 14047.85
TEH Area:4.4015E+08 TEH Amount: 14941.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010821_b\0108HP5.0016.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 14941.95 | 99.61 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.532 | 200. | 148.336 | 74.17 | 85-115 |
| *1-Chlorooctadecane | 13.398 | 200. | 200.158 | 100.08 | 85-115 |

G:\org\HP5\dat\HP5010821_b\Review\016_CCV_0108HP516r_DC_8015-HA-L%.xls

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selected)<br>Sample Name | Method | Weight | Dil Factor | Amt Inj.. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5010821_b\0108HP5.04r | CCV_0108HP504r, DRO ;0108HP5 , DRO201215A | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | Integration is valley to valley. Assigned Set Baseline All Valley on at 17.5. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.05r | DCM-Baseline Check-V05 | G:\Org\HP5\Methods\DR_8015-GX-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.06r | CCV_0108HP511r, CAL1 ;0108HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(13322), then 100 uL of that + 100 uL of DCM (13322)) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.07r | CCV_0108HP512r, CAL2 ;0108HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.08r | CCV_0108HP513r, CAL3 ;0108HP5 , 15000 ug per mL Diesel (300 uL of DRO20917B + 700 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.09r | CCV_0108HP514r, CAL4 ;0108HP5 , 37500ug per mL Diesel (750 uL of DRO20917B + 250 uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.10r | CCV_0108HP515r, CAL5 ;0108HP5 , 50000 ug per mL Diesel (200 uL of DRO20917B) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.11r | CCV_0108HP506r, CAL1 ;0108HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.12r | CCV_0108HP507r, CAL2 ;0108HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.13r | CCV_0108HP508r, CAL3 ;0108HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.14r | CCV_0108HP509r, CAL4 ;0108HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.15r | CCV_0108HP510r, CAL5 ;0108HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO210105B + 750 DCM(13322) | G:\Org\HP5\Methods\DS_8015-HA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.4 and slightly after the surrogate peak at 12.66 and scaling showing surrogaete peak from 12-14. |
| G:\org\HP5\DAT\HP5010821_b\0108HP5.16r | CCV_0108HP516r, Second Source ;0108HP5 , 15000 ug per mL (100uL of DRO201210A + 900uL DCM(13322) | G:\Org\HP5\Methods\DC_8015-HA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.5 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.01.27 15:17:17 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*31-Mar-21*

**Run ID** GCFID-HP5-B_210218B

| | |
|---|---|
| **Run Start Date:** | 2/18/2021 |
| **Analyst:** | Ann Nebel |
| **Ical:** | |
| **Column ID:** | |
| **Comments:** | 8015 OIL range calibration<br>SW8015_OIL210218 |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO180918C | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL | 8/31/2025 |
| DRO210204A | Carbon Scan STD | | | | | MARKER | 3/5/2028 |
| DRO210217A | 20,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | ICV | 8/23/2021 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282665 | CCV_0218HP50 | HC-8015-DRO- | CAL1 | | 2/18/2021 12:03: | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 0.1468323 | | 0.15 | 0 | 0 | 0 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282666 | CCV_0218HP50 | HC-8015-DRO- | CAL2 | | 2/18/2021 1:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 1.062811 | | 1 | 0 | 0 | 0.15 | 0.3 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282667 | CCV_0218HP50 | HC-8015-DRO- | CAL3 | | 2/18/2021 2:51:0 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.035713 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282668 | CCV_0218HP50 | HC-8015-DRO- | CAL4 | | 2/18/2021 4:14:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 14.69295 | | 15 | 0 | 0 | 0.15 | 0.3 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282669 | CCV_0218HP51 | HC-8015-DRO- | CAL5 | | 2/18/2021 5:38:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 28.20769 | | 30 | 0 | 0 | 0.15 | 0.3 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14282670 | CCV_0218HP51 | HC-8015-DRO- | ICV | | 2/18/2021 8:27:3 | 1 | R356533 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 5.474465 | | 5 | 0 | 0 | 0.15 | 0.3 | 0 | 109% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Nam | Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|---|---|
| | :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Version: 4

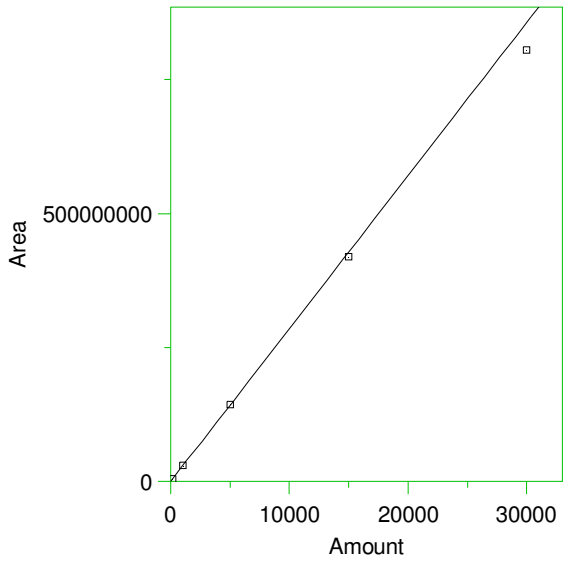
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 DRO Range Start




Expected retention time: 6.54 minutes
Search window: 0.05 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

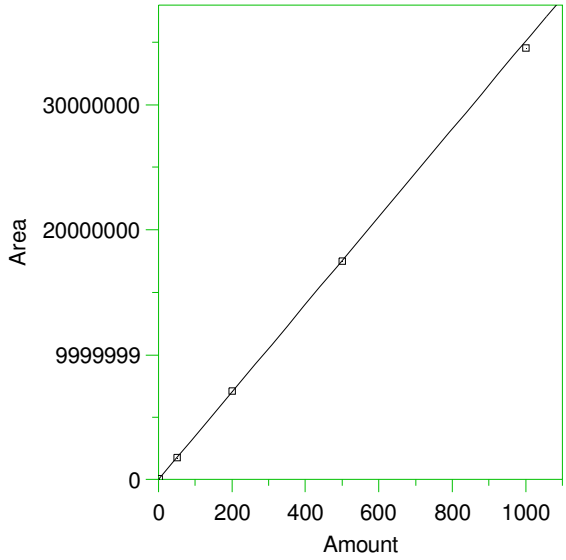
Single peak quantification by area

Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9940317
Average error: 3.209%
Average CF: 28542.41
RSD: 4.497%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 3/30/2021 11:50:57 AM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 3/30/2021 11:51:41 AM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 3/30/2021 11:52:00 AM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 3/30/2021 11:52:55 AM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 3/30/2021 11:52:32 AM |

2 *o-Terphenyl




| | |
|---|---|
| Expected retention time: | 12.14 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

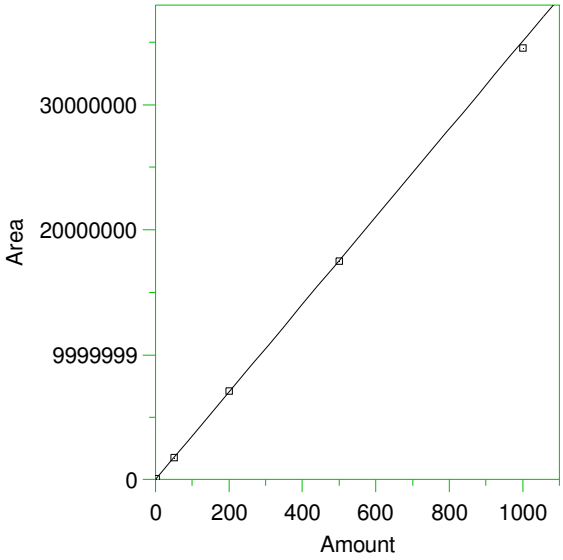
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND | 1/11/2021 9:44:43 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND | 1/11/2021 9:44:50 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND | 1/11/2021 9:44:58 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0014.BND | 1/11/2021 9:45:02 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | G:\Org\HP5\DAT\HP5010821_b\0108HP5.0015.BND | 1/11/2021 9:45:07 AM |

3 *1-Chlorooctadecane




| | |
|---|---|
| Expected retention time: | 12.95 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

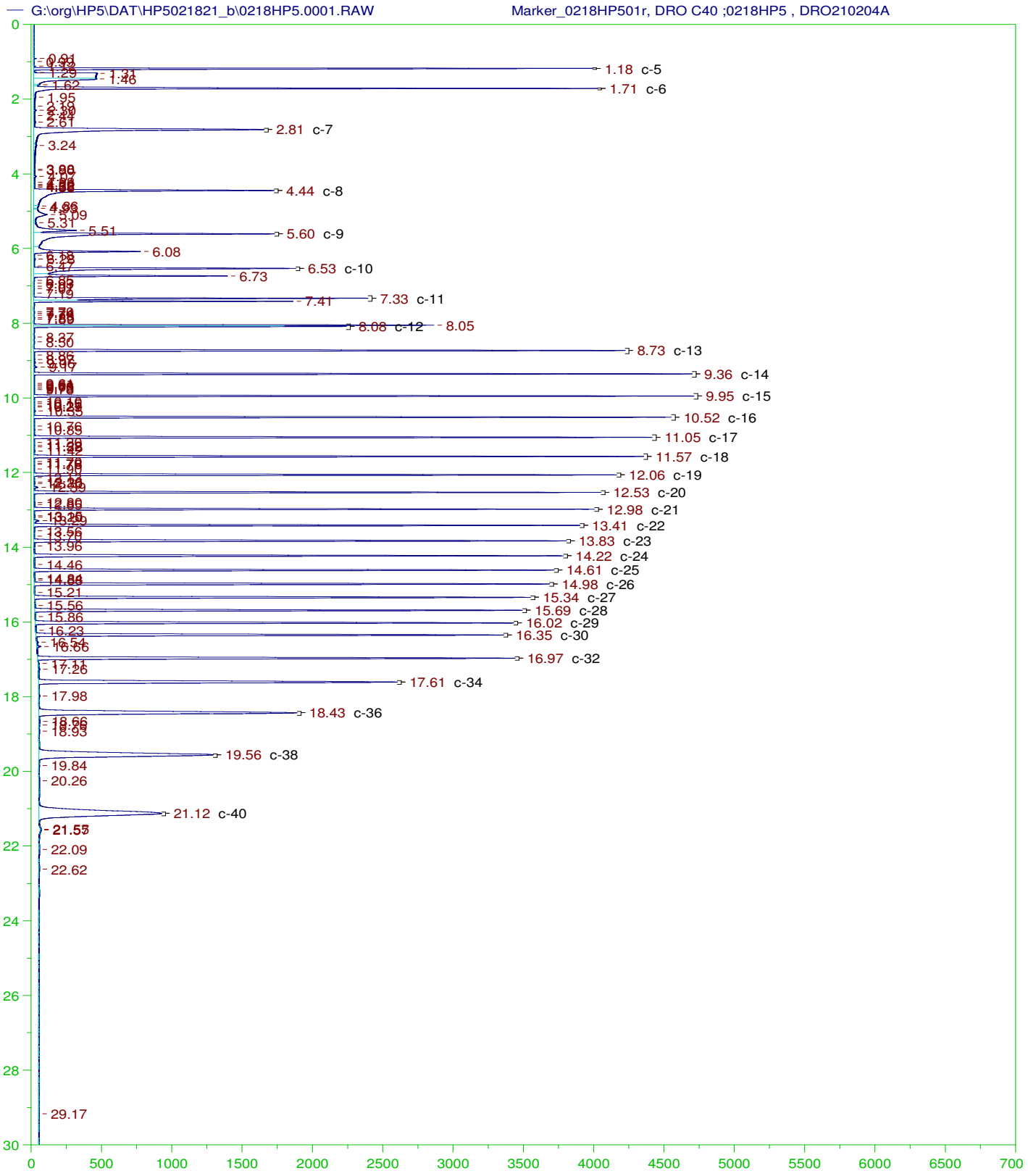
Single peak quantification by area

Y = 35071.26 X + 0

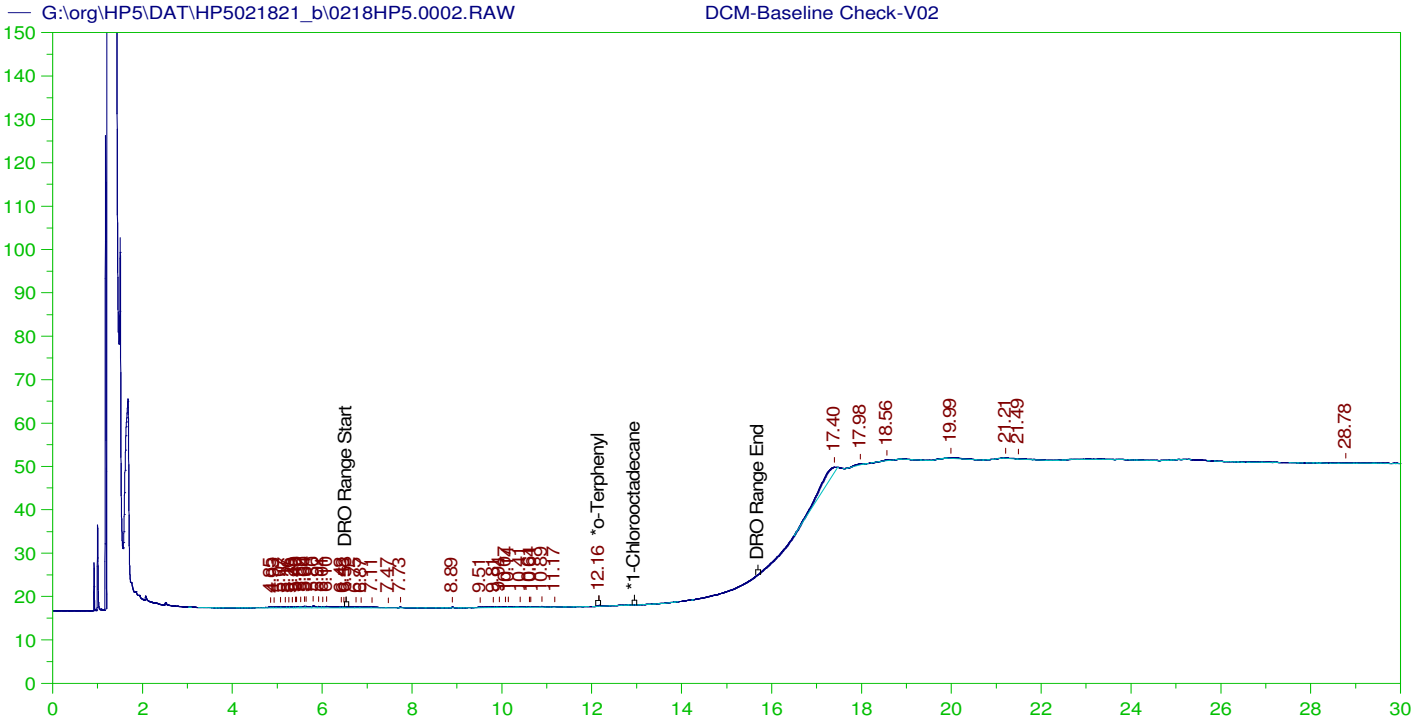
Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9996535 |
| Average error: | 0.838% |
| Average CF: | 35071.26 |
| RSD: | 1.097% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 70648.41 | 35324.2 | 0.721 | Manual | 1/11/2021 9:45:13 AM |
| 2 | 50 | 1746406 | 34928.12 | -0.408 | Manual | 1/11/2021 9:45:15 AM |
| 3 | 200 | 7110604 | 35553.02 | 1.374 | Manual | 1/11/2021 9:45:17 AM |
| 4 | 500 | 1.749965E+07 | 34999.3 | -0.205 | Manual | 1/11/2021 9:45:19 AM |
| 5 | 1000 | 3.455164E+07 | 34551.64 | -1.482 | Manual | 1/11/2021 9:45:21 AM |




G:\org\HP5\dat\HP5021821_b\Review\001_Marker_0218HP501r_CSC210212.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

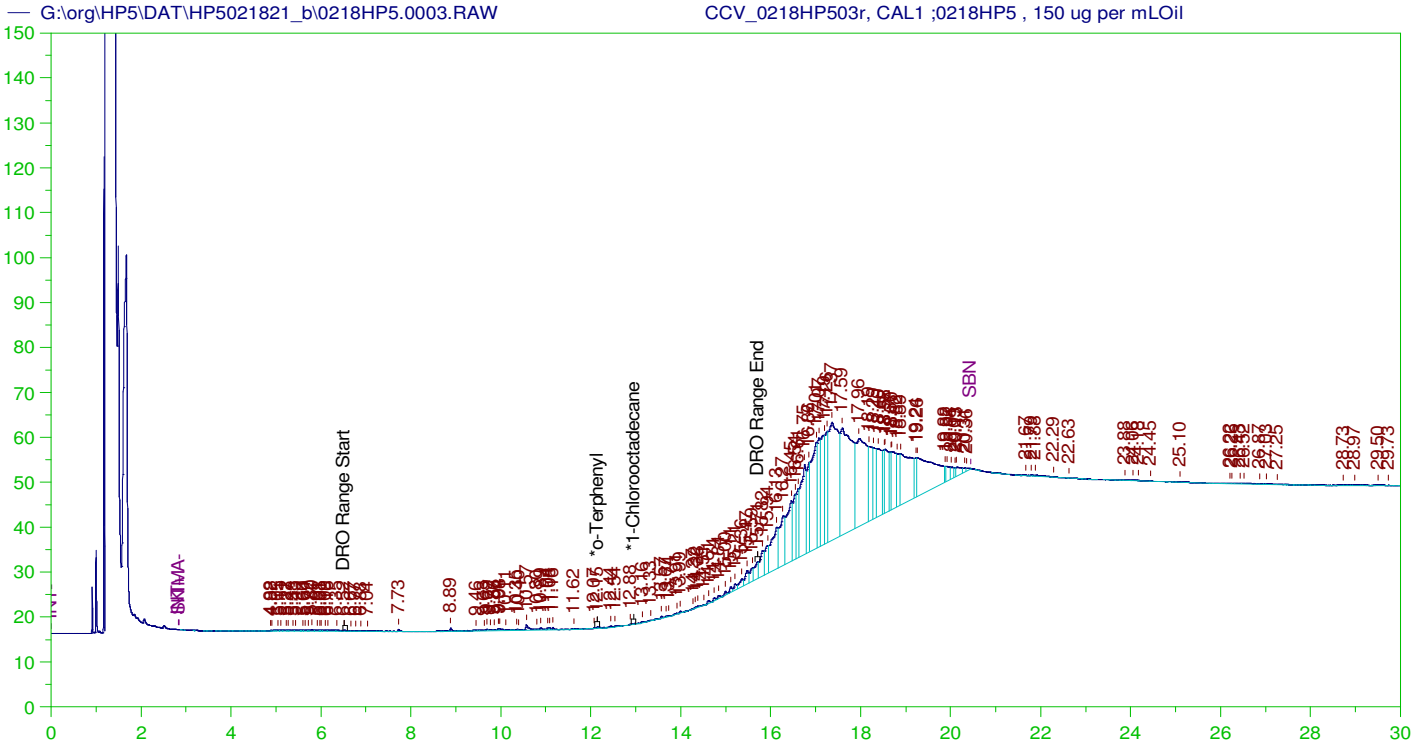
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
Date & Time Acquired: 2/18/2021 11:21:40 AM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.158 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 29.927 | 200. | . | . | - |

DRO Area:29553.31 DRO Amount: 1.003258
TEH Area:144057.3 TEH Amount: 4.890373

G:\org\HP5\dat\HP5021821_b\Review\002_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW
Date & Time Acquired: 2/18/2021 12:03:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021803-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | - |

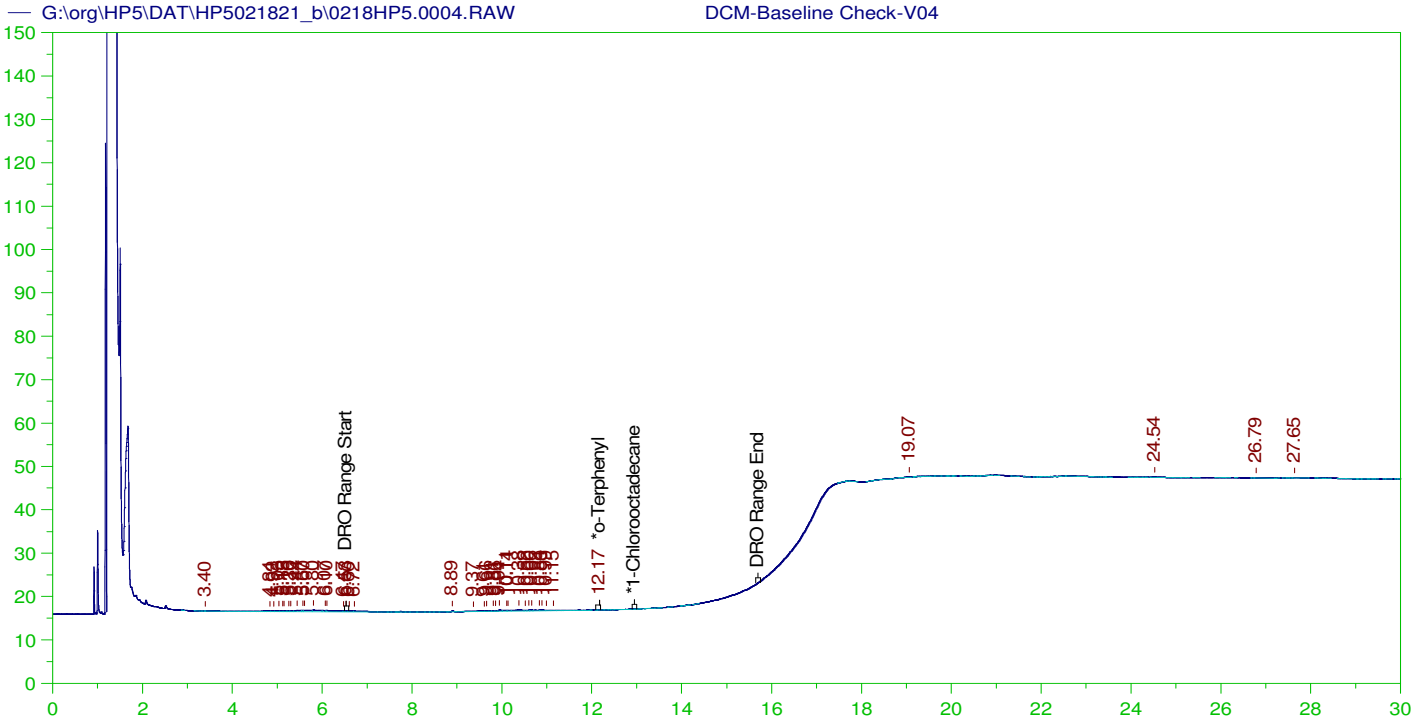
DRO Area:141843.8 DRO Amount: 4.969579
TEH Area:3766485 TEH Amount: 131.961

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 131.96 | 2.64 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .02 | .01 | 85-115 |
| *1-Chlorooctadecane | 29.979 | 200. | . | . | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\003_CCV_0218HP503r_DR_OIL-021803-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

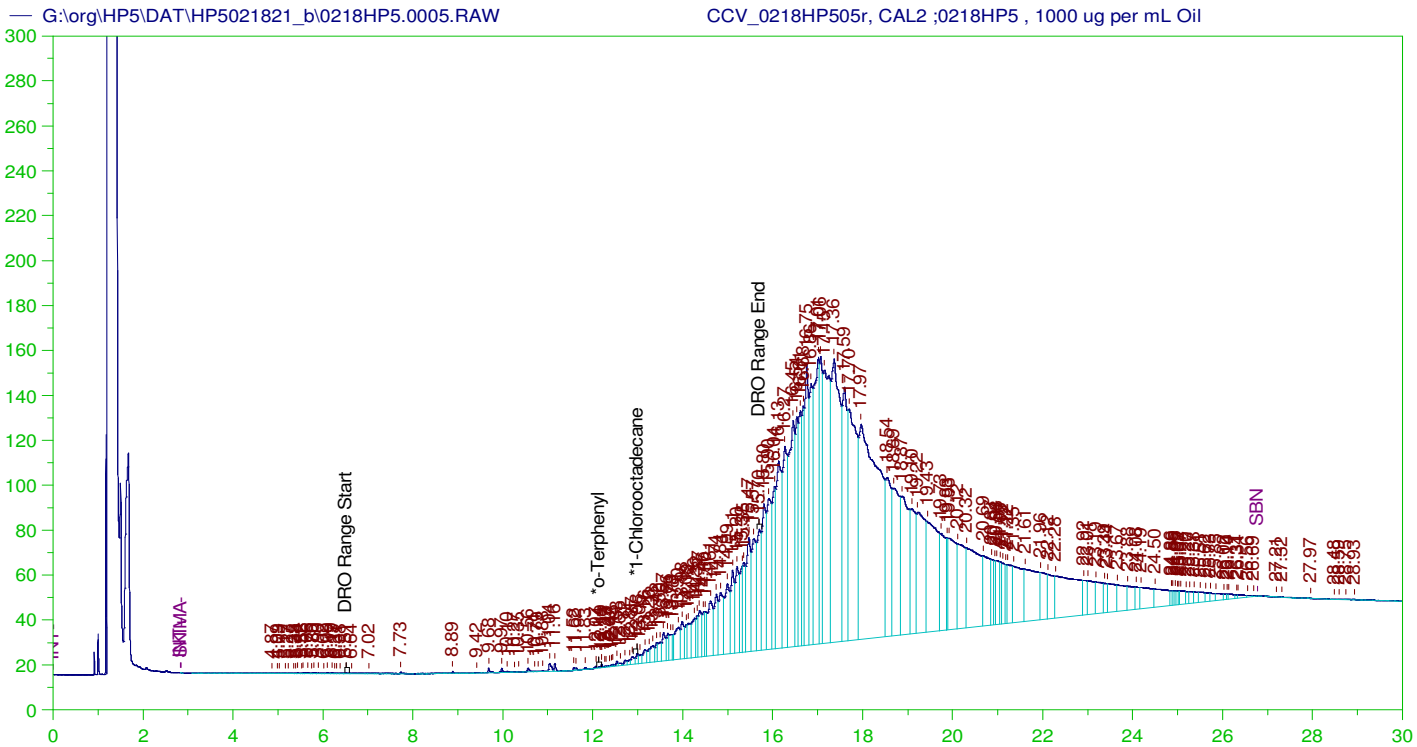
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
Date & Time Acquired: 2/18/2021 12:45:36 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.171 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.958 | 200. | . | . | - |

DRO Area:27245.38 DRO Amount: 0.9249101
TEH Area:63574.01 TEH Amount: 2.158173

G:\org\HP5\dat\HP5021821_b\Review\004_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW
Date & Time Acquired: 2/18/2021 1:27:30 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021805-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | - |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | - |

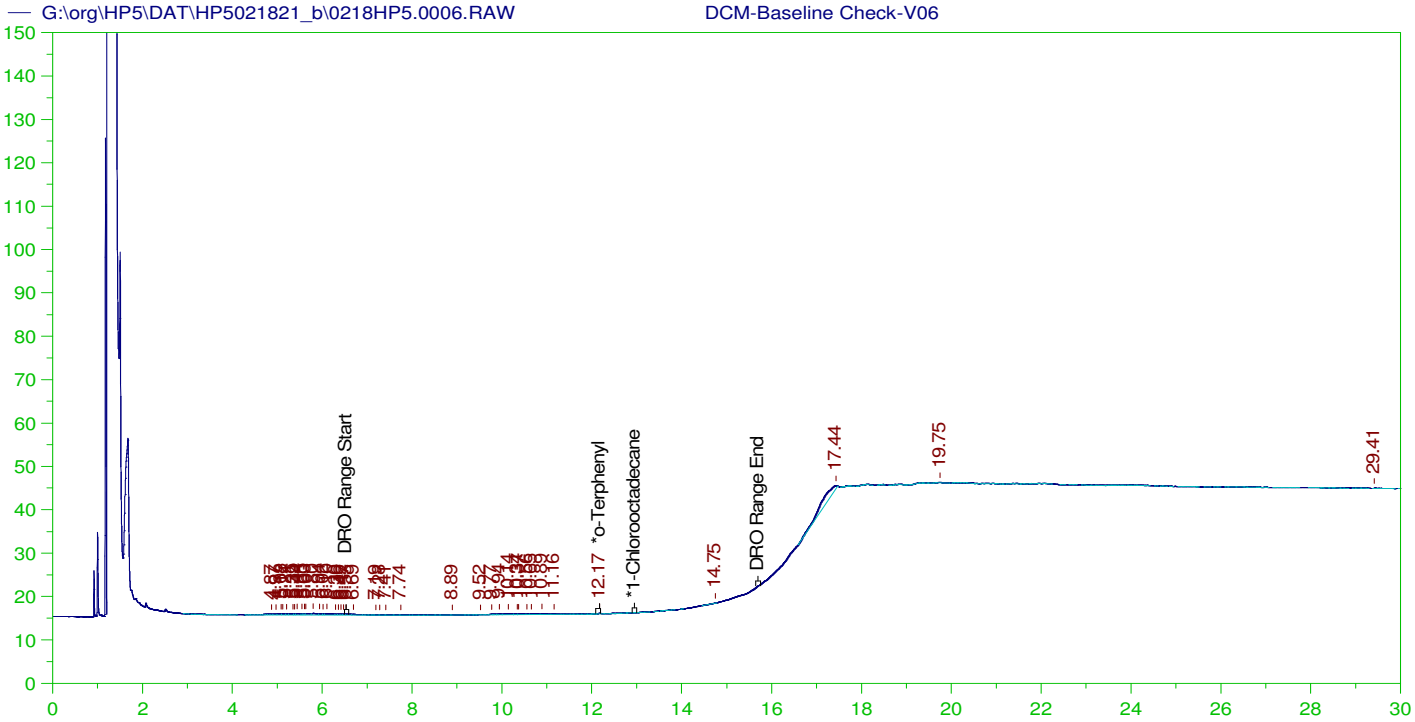
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 1062.81 | 21.26 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.136 | 200. | .034 | .02 | 85-115 |
| *1-Chlorooctadecane | 12.983 | 200. | .496 | .25 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\005_CCV_0218HP505r_DR_OIL-021805-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

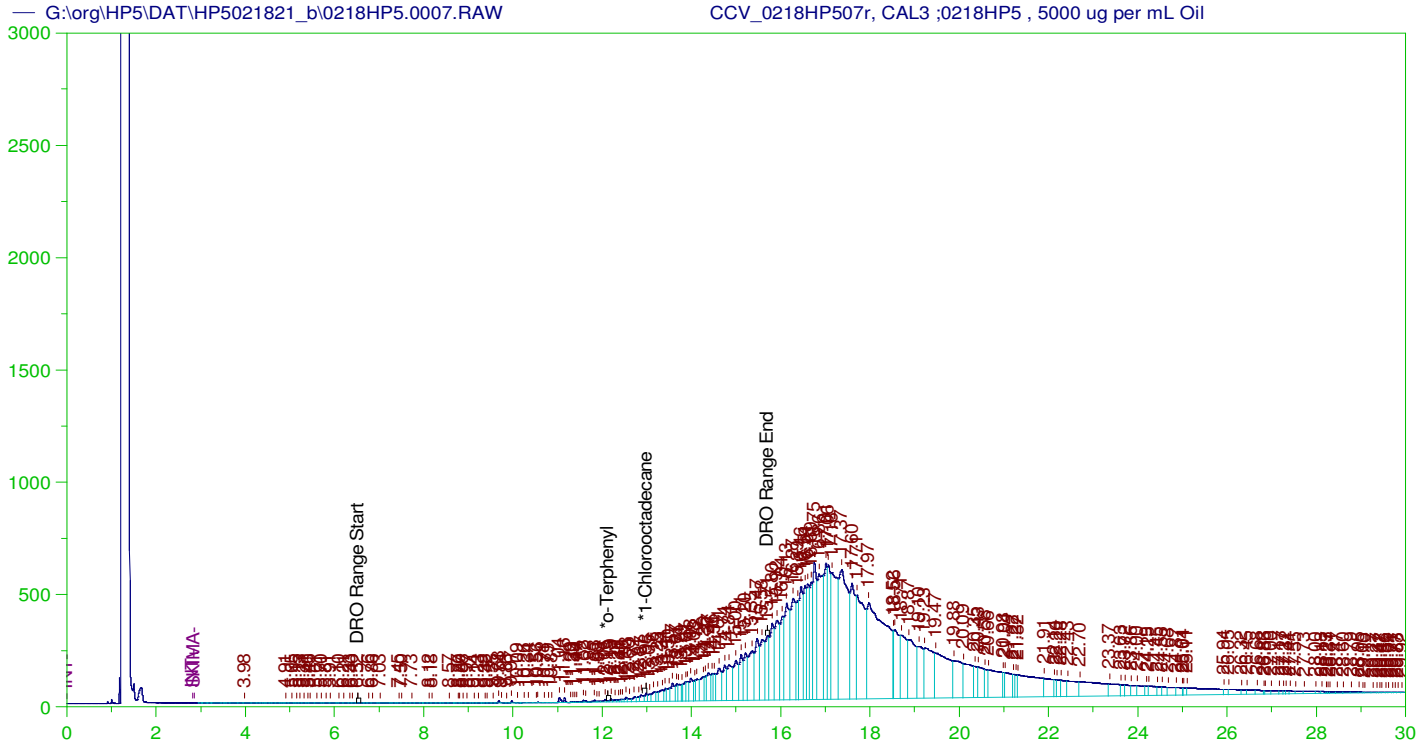
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0006.RAW
Date & Time Acquired: 2/18/2021 2:09:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.17 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:29249.25 DRO Amount: 0.9929362
TEH Area:123949.1 TEH Amount: 4.20775

G:\org\HP5\dat\HP5021821_b\Review\006_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW
Date & Time Acquired: 2/18/2021 2:51:00 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | - |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | - |

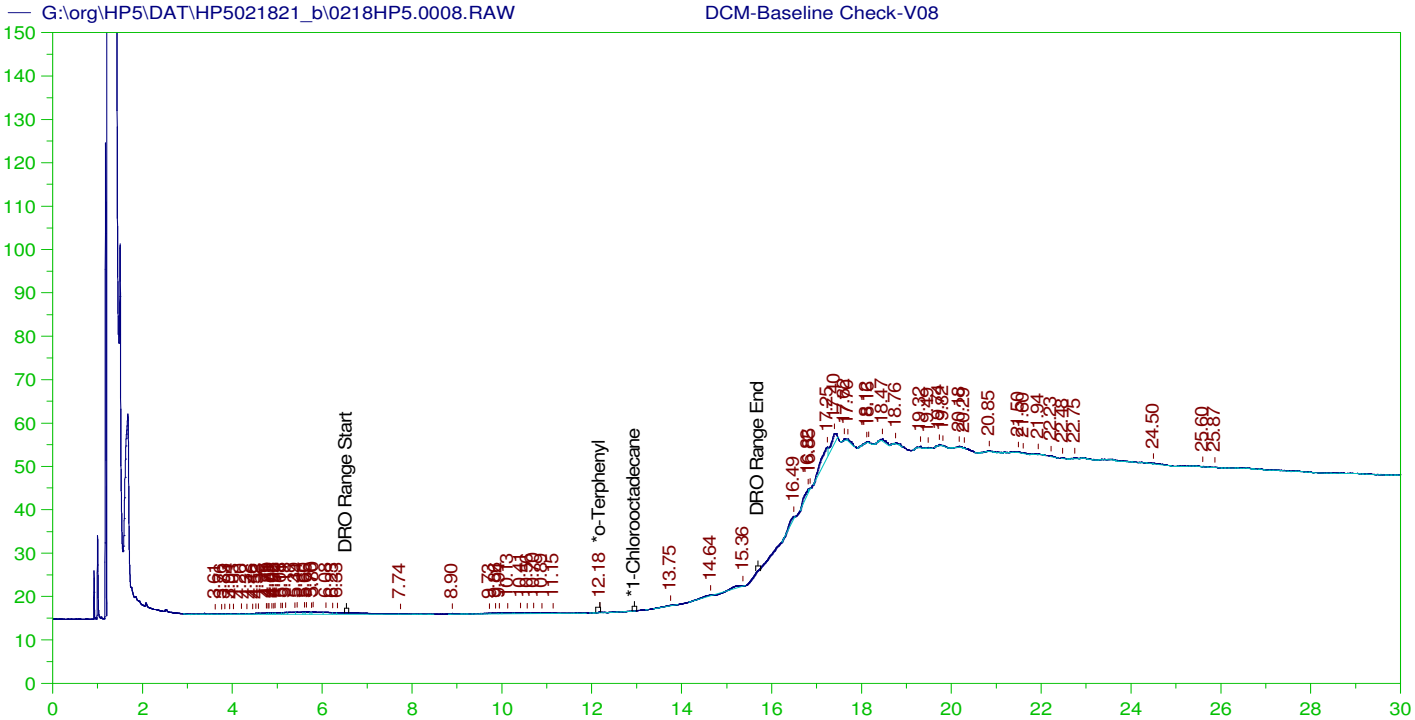
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5035.71 | 100.71 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.129 | 200. | .538 | .27 | 85-115 |
| *1-Chlorooctadecane | 12.981 | 200. | 4.244 | 2.12 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\007_CCV_0218HP507r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

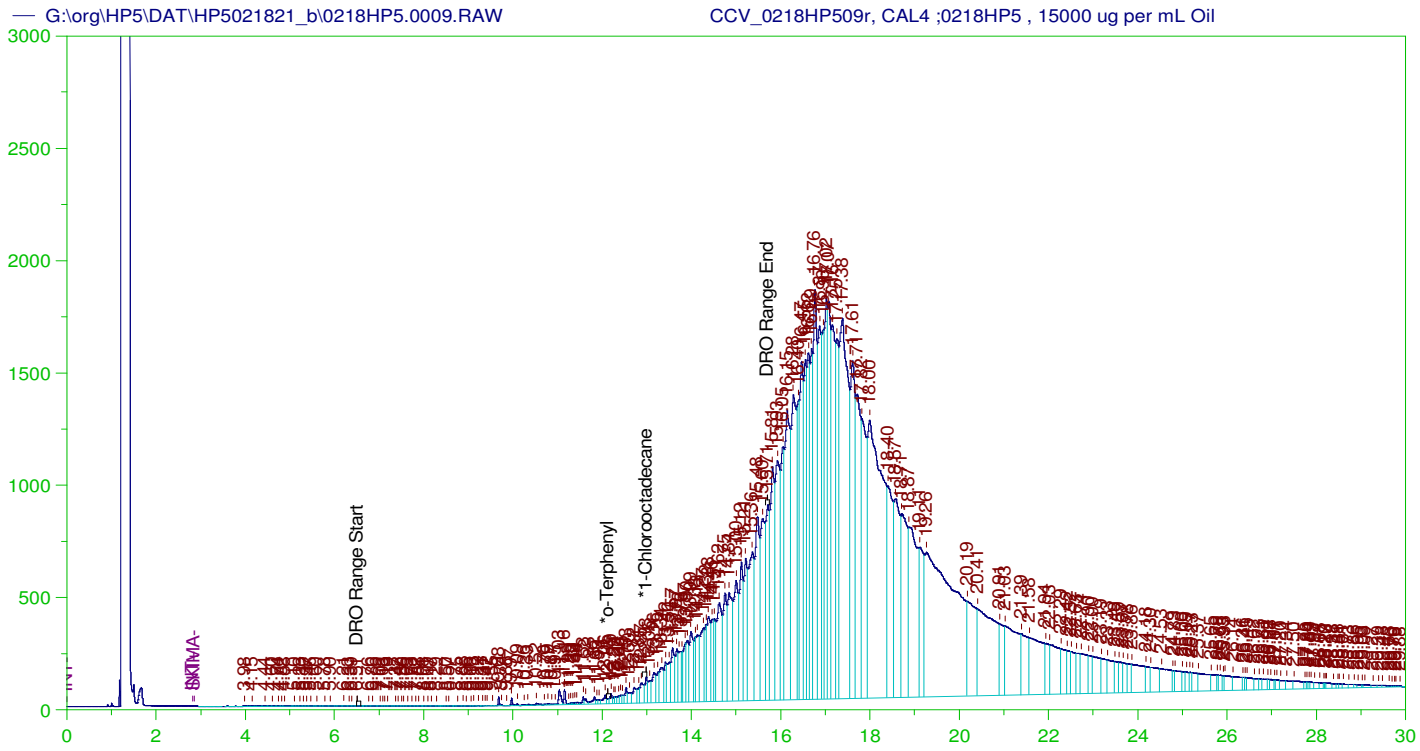
Sample Name: DCM-Baseline Check-V08
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0008.RAW
Date & Time Acquired: 2/18/2021 3:32:46 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.176 | 200. | .026 | .01 | - |
| *1-Chlorooctadecane | 29.982 | 200. | . | . | - |

DRO Area:30717.07 DRO Amount: 1.042765
TEH Area:223672.8 TEH Amount: 7.593112

G:\org\HP5\dat\HP5021821_b\Review\008_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW
Date & Time Acquired: 2/18/2021 4:14:34 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021807-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | - |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | - |

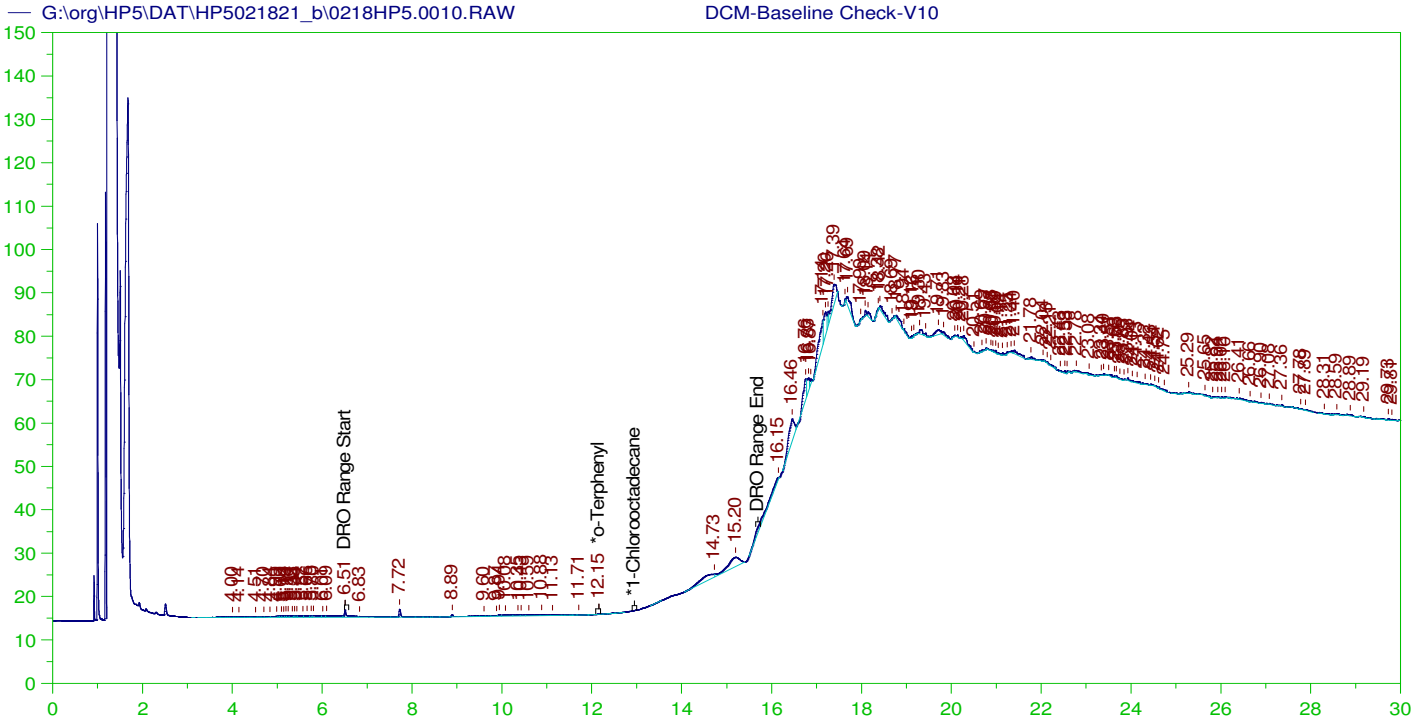
DRO Area:6.73131E+07 DRO Amount: 2358.354
TEH Area:4.193721E+08 TEH Amount: 14692.95

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 14692.95 | 293.86 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.124 | 200. | 1.888 | .94 | 85-115 |
| *1-Chlorooctadecane | 12.984 | 200. | 13.129 | 6.56 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\009_CCV_0218HP509r_DR_OIL-021807-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

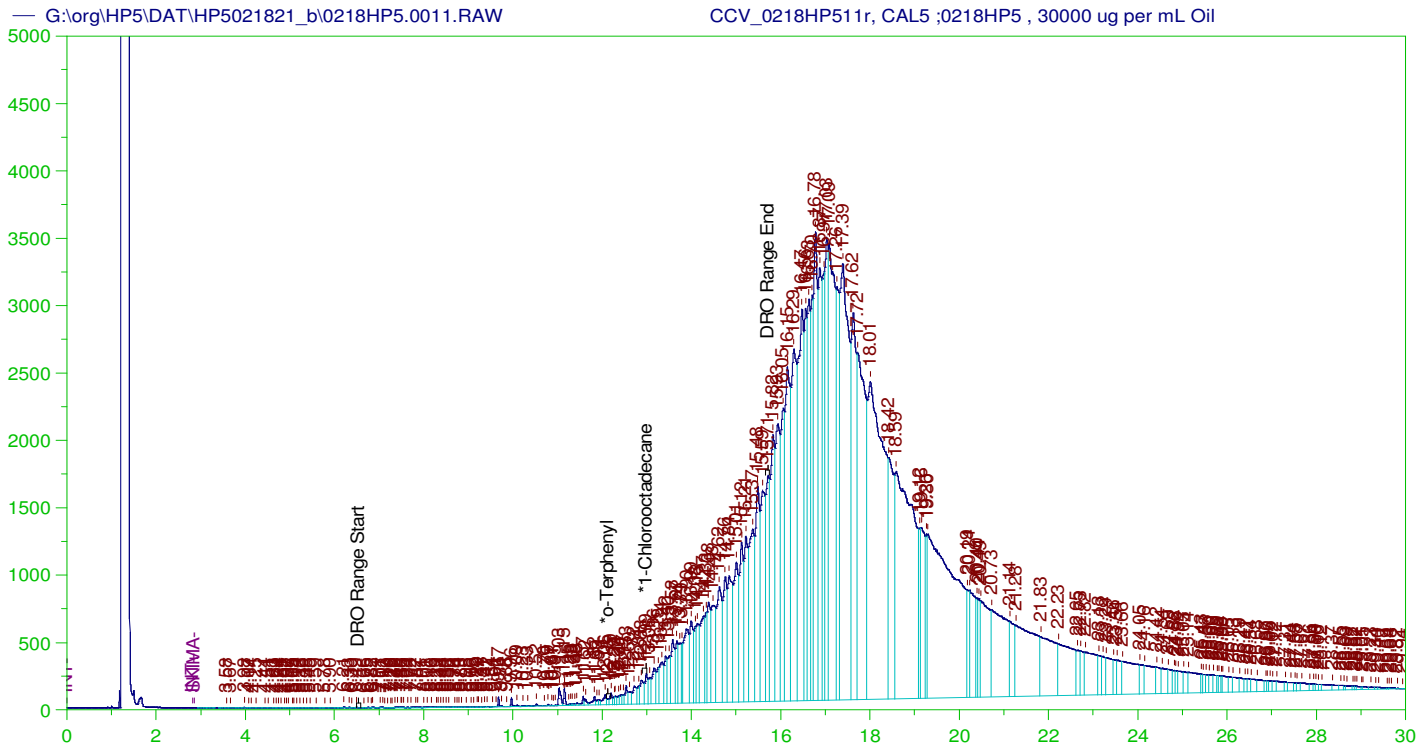
Sample Name: DCM-Baseline Check-V10
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0010.RAW
Date & Time Acquired: 2/18/2021 4:56:16 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.153 | 200. | .023 | .01 | - |
| *1-Chlorooctadecane | 29.957 | 200. | . | . | - |

DRO Area:108629.1 DRO Amount: 3.687675
TEH Area:543425.7 TEH Amount: 18.44789

G:\org\HP5\dat\HP5021821_b\Review\010_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW
Date & Time Acquired: 2/18/2021 5:38:33 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | - |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | - |

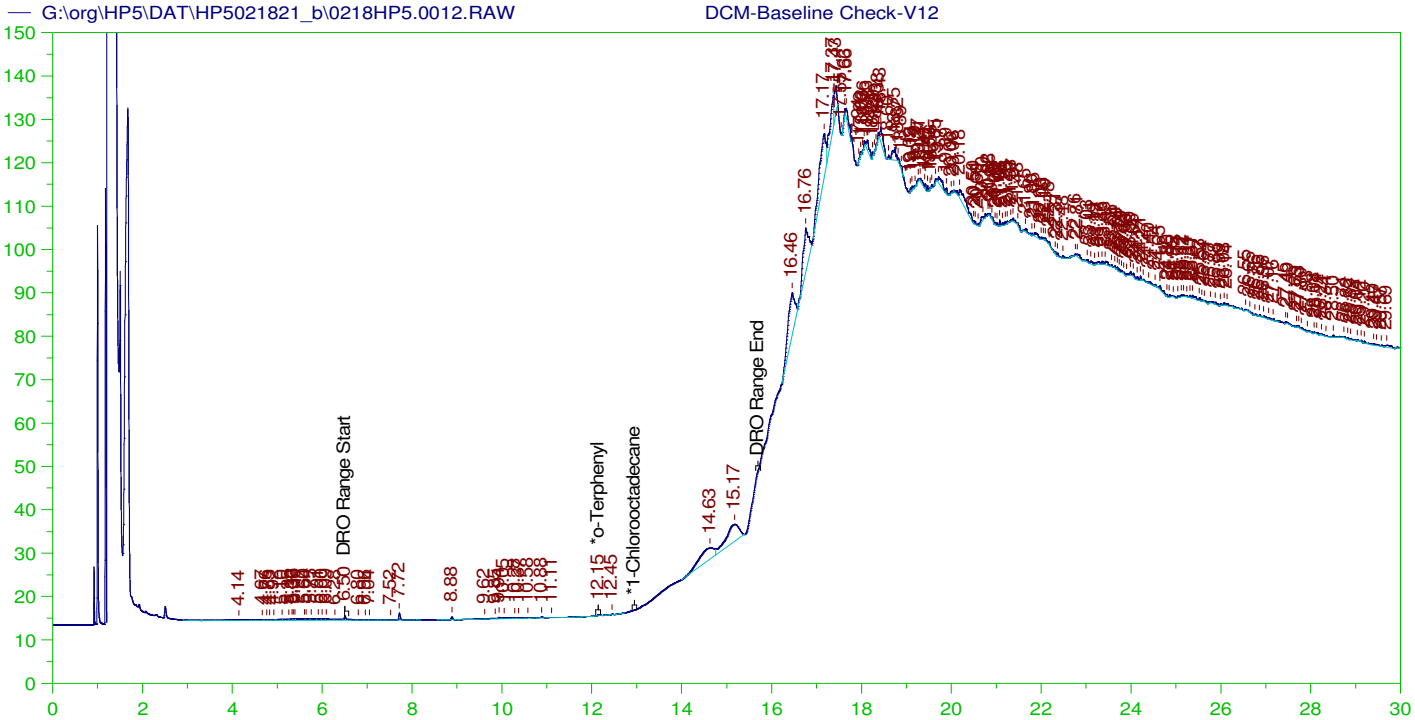
DRO Area:1.319327E+08 DRO Amount: 4622.338
TEH Area:8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821_b\0218HP5.0011.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 28207.69 | 564.15 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.128 | 200. | 3.828 | 1.91 | 85-115 |
| *1-Chlorooctadecane | 12.985 | 200. | 28.22 | 14.11 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\011_CCV_0218HP511r_DR_OIL-021811-AA-L0.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

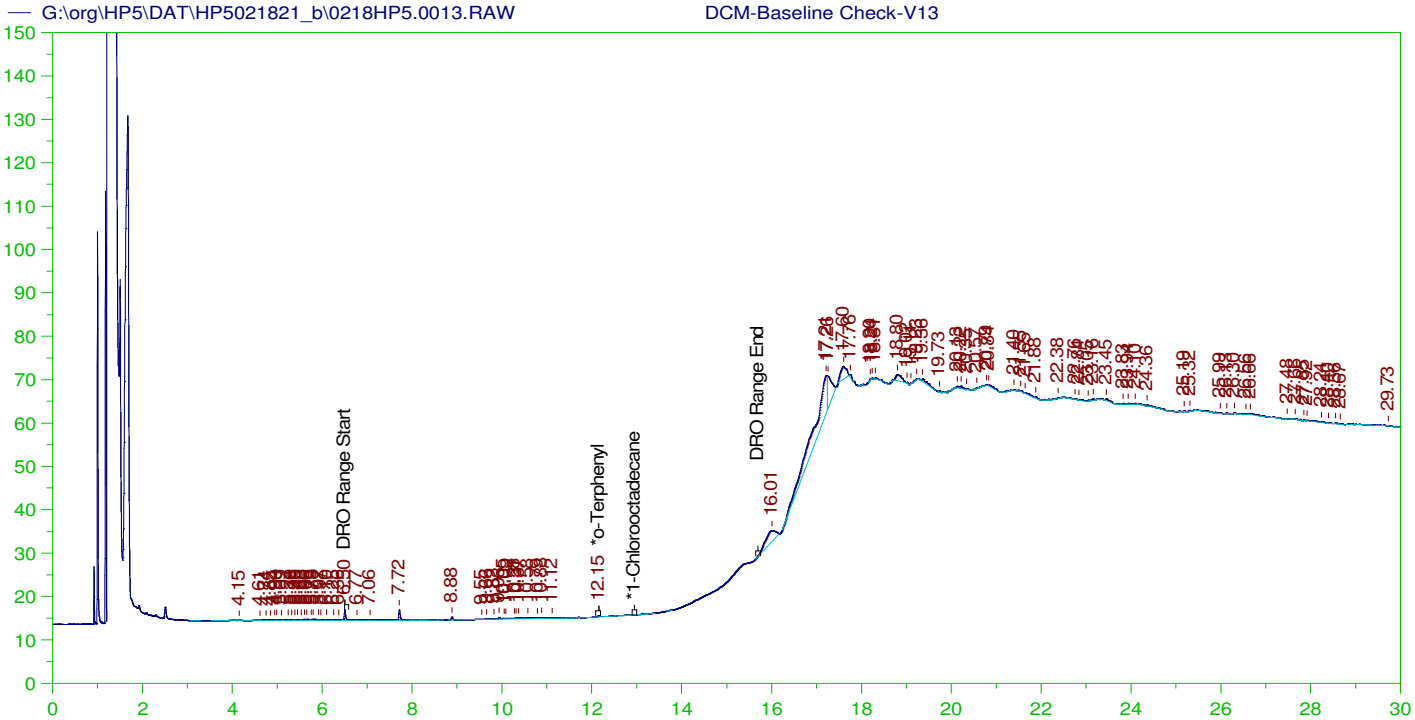
Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0012.RAW
Date & Time Acquired: 2/18/2021 6:20:48 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.146 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:186033.1 DRO Amount: 6.31534
TEH Area:888262.2 TEH Amount: 30.1542

G:\org\HP5\dat\HP5021821_b\Review\012_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

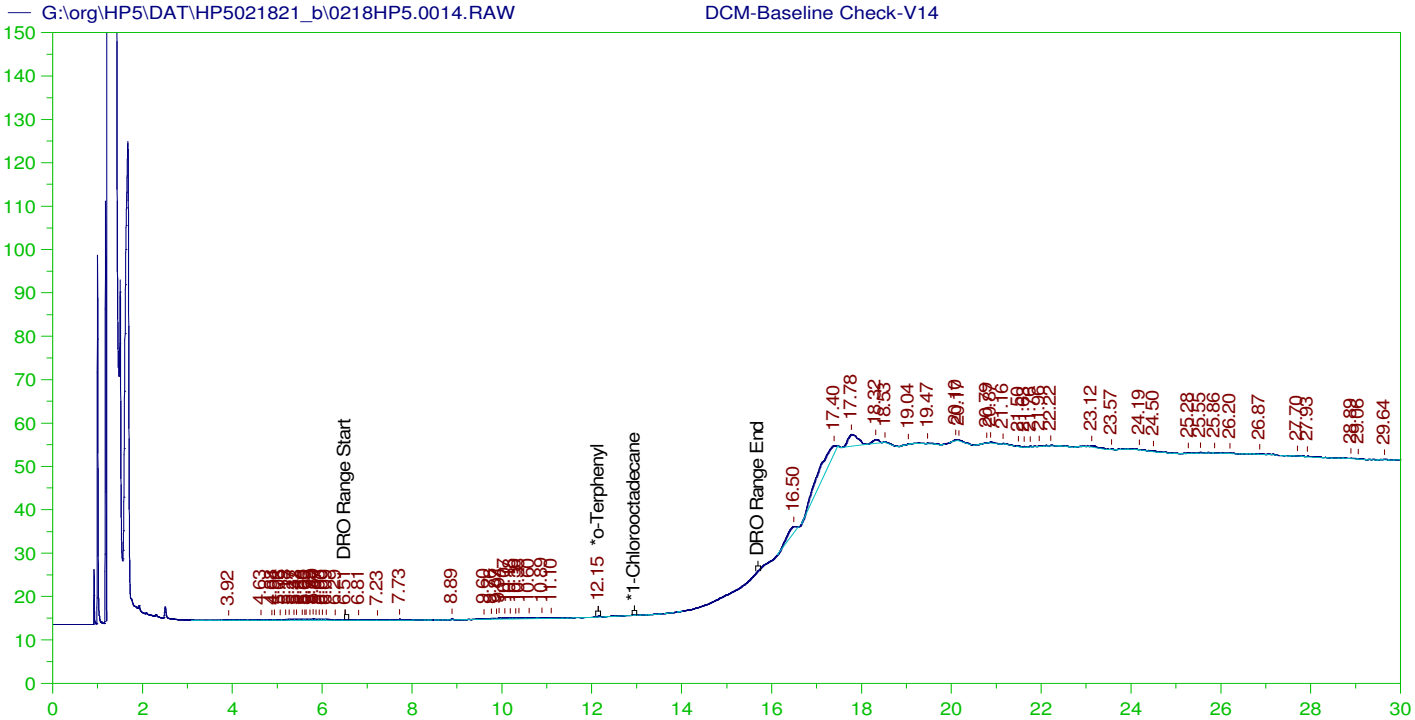
Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0013.RAW
Date & Time Acquired: 2/18/2021 7:03:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.152 | 200. | .033 | .02 | - |
| *1-Chlorooctadecane | 29.967 | 200. | . | . | - |

DRO Area:40824.55 DRO Amount: 1.385888
TEH Area:476705.3 TEH Amount: 16.18291

G:\org\HP5\dat\HP5021821_b\Review\013_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

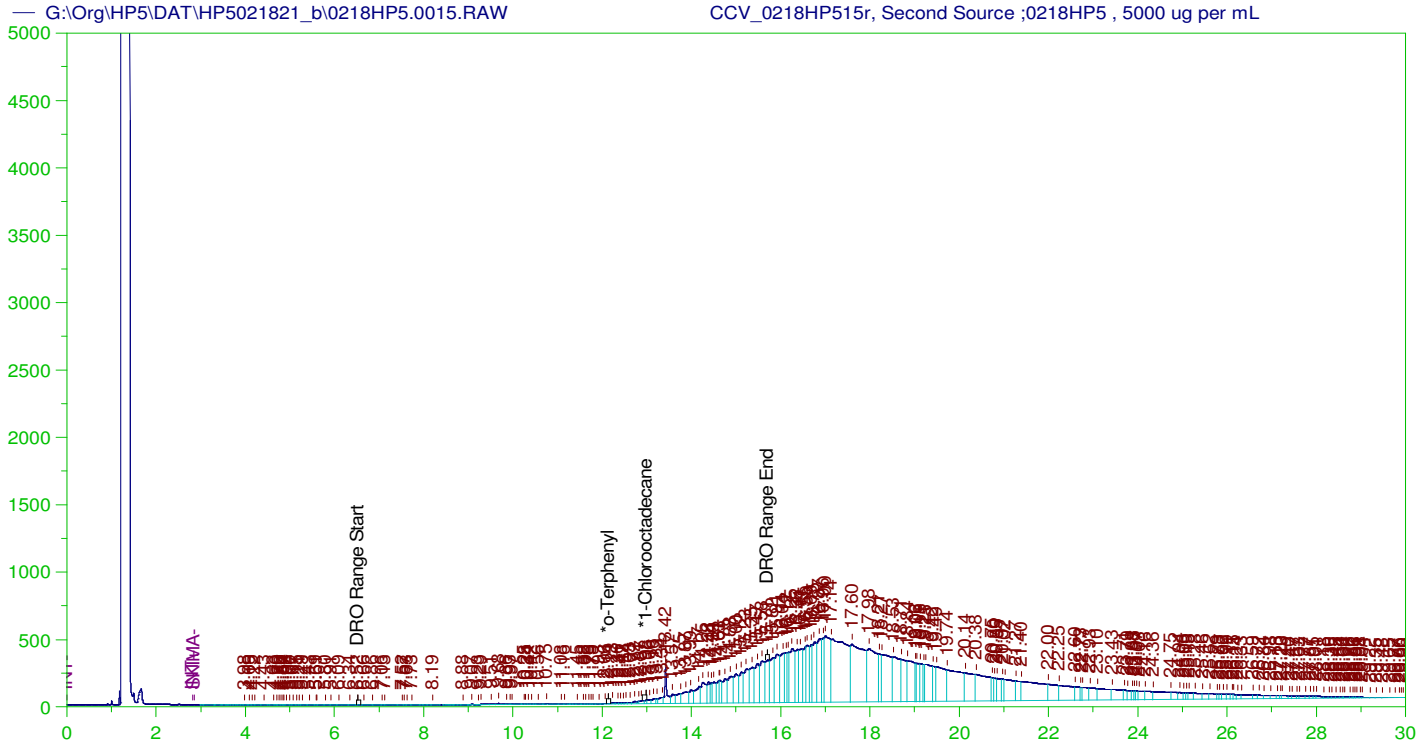
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0014.RAW
Date & Time Acquired: 2/18/2021 7:45:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.148 | 200. | .03 | .01 | - |
| *1-Chlorooctadecane | 29.949 | 200. | . | . | - |

DRO Area:30445.24 DRO Amount: 1.033537
TEH Area:297634.4 TEH Amount: 10.10392

G:\org\HP5\dat\HP5021821_b\Review\014_DCM-Baseline Chec_DR_8015-HE-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL
Raw File: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW
Date & Time Acquired: 2/18/2021 8:27:37 PM
Method File: G:\ORG\HP5\METHODS\DR_OIL-021811-AA-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_OIL210218AA.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41
Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | - |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 - |

DRO Area:2.558549E+07 DRO Amount: 0.8964027
TEH Area:1.562544E+08 TEH Amount: 5.474465

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5021821_b\0218HP5.0015.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 5000. | 5.47 | .11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.137 | .2 | .19 | | 85-115 |
| *1-Chlorooctadecane | 12.984 | .2 | .003 | 1.62 | 85-115 |

G:\org\HP5\dat\HP5021821_b\Review\015_CCV_0218HP515r_DR_OIL-021811-AA-L0.xls

| Write Sequence Data File | Sample Nan Insert Entries(Have the first cell for entries selecte | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| :\org\HP5\DAT\HP5021821_b\0218HP5.01r | Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A | g:\org\HP5\Methods\\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.03r | CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mLOil (10 uL of Cal4 + 990 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.04r | DCM-Baseline Check-V04 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.05r | CCV_0218HP505r, CAL2 ;0218HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021805-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.06r | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.07r | CCV_0218HP507r, CAL3 ;0218HP5 , 5000 ug per mL Oil (100 uL of DRO180918C + 900 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.08r | DCM-Baseline Check-V08 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.09r | CCV_0218HP509r, CAL4 ;0218HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021807-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 3000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.10r | DCM-Baseline Check-V10 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.11r | CCV_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |
| :\org\HP5\DAT\HP5021821_b\0218HP5.12r | DCM-Baseline Check-V12 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| :\org\HP5\DAT\HP5021821_b\0218HP5.15r | CCV_0218HP515r, Second Source ;0218HP5 , 5000 ug per mL (100uL of DRO210217A + 300uL DCM(13510) | G:\Org\HP5\Methods\DR_OIL-021811-AA-L0.MET | 1 | 1 | 1 | 1 | 0 | The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the basline. Scale was set at 5000 for the Yaxis. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.09.20 13:12:26 -06:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*25-Oct-21*

**Run ID** GCFID-HP5-B_211017A

**Run Start Date:** 10/17/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** Triacontane ICAL

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO211006A | Triacontane SURR 2000 ug/mL | | | | | SURR | 4/6/2026 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14777567 | CCV_1017HP50 | HC-8015-DRO- | CAL1 | | 10/17/2021 3:30: | 1 | R368813 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Triacontane | S | mg/L | | 0.00202757 | | 0.002 | 0 | 0 | 0.002 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14777568 | CCV_1017HP50 | HC-8015-DRO- | CAL2 | | 10/17/2021 4:12: | 1 | R368813 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Triacontane | S | mg/L | | 0.04817772 | | 0.05 | 0 | 0 | 0.002 | 0.002 | 0 | 96% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14777569 | CCV_1017HP50 | HC-8015-DRO- | CAL3 | | 10/17/2021 4:55: | 1 | R368813 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Triacontane | S | mg/L | | 0.2231112 | | 0.2 | 0 | 0 | 0.002 | 0.002 | 0 | 112% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14777570 | CCV_1017HP50 | HC-8015-DRO- | CAL4 | | 10/17/2021 5:38: | 1 | R368813 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Triacontane | S | mg/L | | 0.4700634 | | 0.5 | 0 | 0 | 0.002 | 0.002 | 0 | 94% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14777571 | CCV_1017HP50 | HC-8015-DRO- | CAL5 | | 10/17/2021 6:20: | 1 | R368813 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Triacontane | S | mg/L | | 0.9372648 | | 1 | 0 | 0 | 0.002 | 0.002 | 0 | 94% | 80 | 120 | 0% | |

*2*

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101721_b\1017HP5.01r | DCM-Baseline Check-V01 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.03r | CCV_1017HP503r, DRO ;1017HP5 , DRO210708A | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.04r | DCM-Baseline Check-V04 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.05r | CCV_1017HP505r, CAL1 ;1017HP5 , 2 ug per mL Triacontane (10 uL of Cal3 + 990 uL DCM(14354) | G:\Org\HP5\Methods\DS_ORO-AA-L0.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.06r | CCV_1017HP506r, CAL2 ;1017HP5 , 50 ug per mL Triacontane (100 uL Cal4 + 900 uL of DCM(14354) | G:\Org\HP5\Methods\DS_ORO-AA-L0.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.07r | CCV_1017HP507r, CAL3 ;1017HP5 , 200 ug per mL Triacontane (100uL of Cal5 + 400 uL DCM(14354) | G:\Org\HP5\Methods\DS_ORO-AA-L0.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.08r | CCV_1017HP508r, CAL4 ;1017HP5 , 500 ug per mL Triacontane (250uL of Cal5 + 250 uL DCM(14354) | G:\Org\HP5\Methods\DS_ORO-AA-L0.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.09r | CCV_1017HP509r, CAL5 ;1017HP5 , 1000 ug per mL Triacontane (500 uL 2000 ug/mL Triacontane DRO211006A + 500 DCM(14354) | G:\Org\HP5\Methods\DS_ORO-AA-L0.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Version: 9

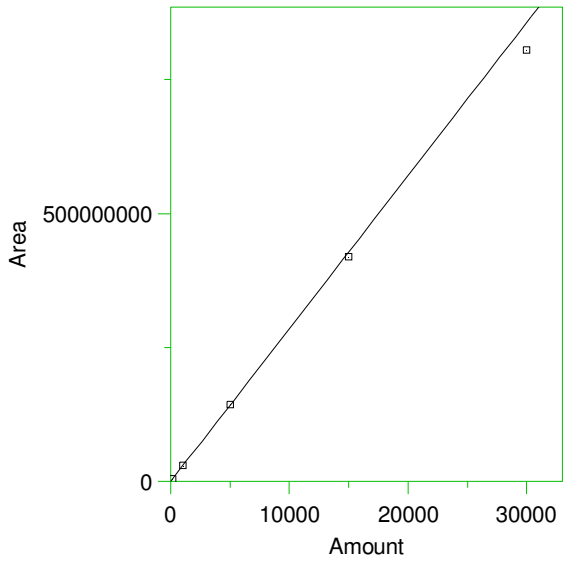
Creator: AMN
Description: 8015C-Oil Range. New ICal Per 1206HP4 (2021)-2 uL Inj.; RRO copied from 8015 cal for Oil
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 *30-40 Motor Oil




| | |
|---|---|
| Expected retention time: | 6.4 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

Single peak quantification by area

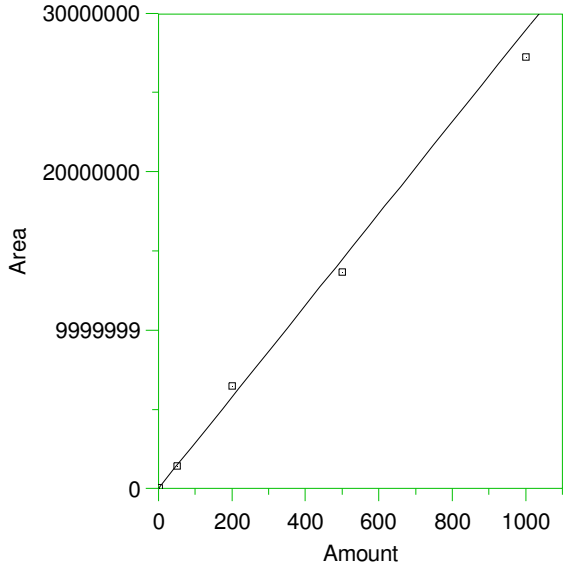
Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9940317 |
| Average error: | 3.209% |
| Average CF: | 28542.41 |
| RSD: | 4.497% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 150 | 4325287 | 28835.25 | 1.026 | Manual | 10/18/2021 2:26:35 PM |
| 2 | 1000 | 3.03352E+07 | 30335.2 | 6.281 | Manual | 10/18/2021 2:26:39 PM |
| 3 | 5000 | 1.437314E+08 | 28746.28 | 0.714 | Manual | 10/18/2021 2:26:42 PM |
| 4 | 15000 | 4.193721E+08 | 27958.14 | -2.047 | Manual | 10/18/2021 2:26:45 PM |
| 5 | 30000 | 8.051155E+08 | 26837.18 | -5.974 | Manual | 10/18/2021 2:26:47 PM |

3 *#Triacontane




| | |
|---|---|
| Expected retention time: | 16.26 minutes |
| Search window: | 0.05 minutes |
| No retention time reference component | |
| Group number: | 0 |
| High alarm limit: | 0 |
| Low alarm limit: | 0 |
| Component constant: | 0 |

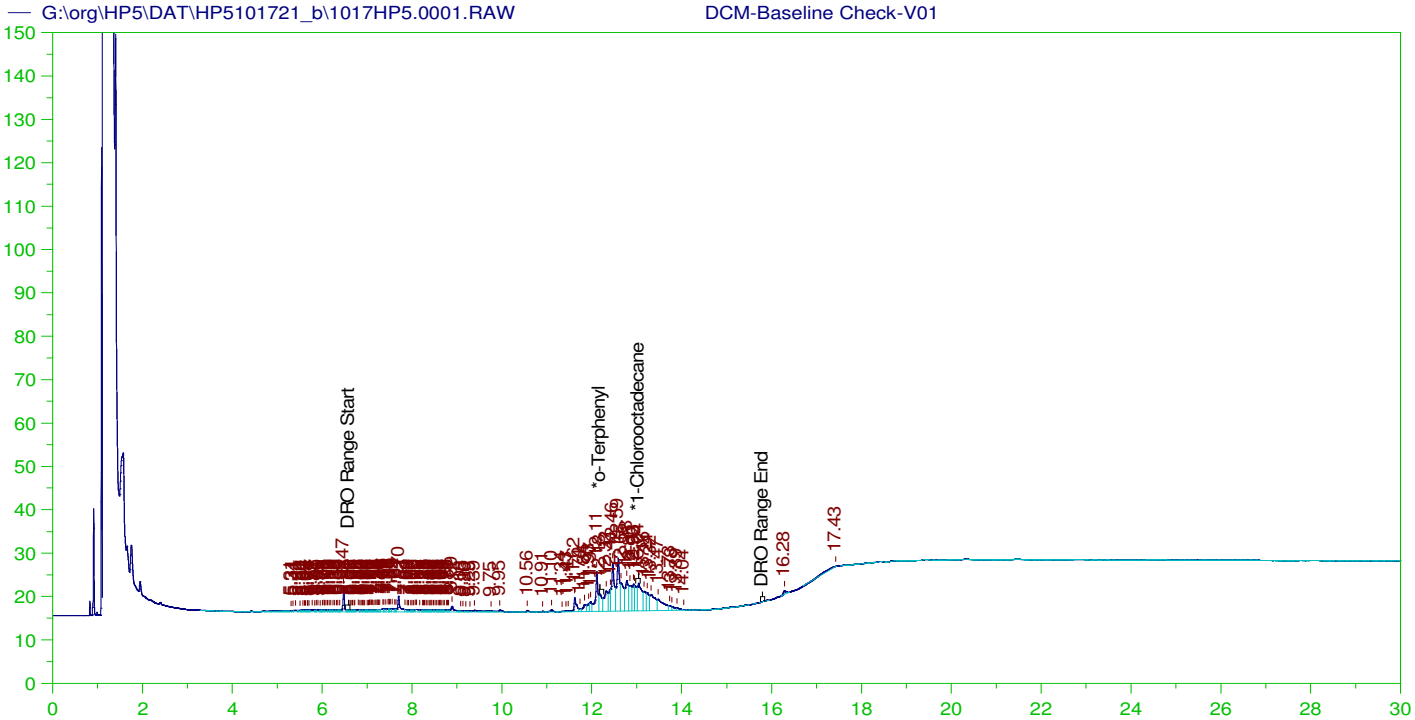
Single peak quantification by area

Y = 28930.14 X + 0

Average CF fit with equal weighting, forced to origin

| | |
|---|---|
| Coefficient of determination: | 0.9919451 |
| Average error: | 5.737% |
| Average CF: | 28930.14 |
| RSD: | 7.577% |

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|---|---|---|---|---|---|---|
| 1 | 2 | 59020.1 | 29510.05 | 2.005 | Manual | 10/18/2021 2:42:38 PM |
| 2 | 50 | 1403134 | 28062.68 | -2.998 | G:\Org\HP4\DAT\HP4100621_b\1006HP4.0015.BND | 10/7/2021 12:47:26 PM |
| 3 | 200 | 6499949 | 32499.74 | 12.339 | G:\Org\HP4\DAT\HP4100621_b\1006HP4.0017.BND | 10/7/2021 12:47:56 PM |
| 4 | 500 | 1.366713E+07 | 27334.26 | -5.516 | Manual | 10/18/2021 2:44:43 PM |
| 5 | 1000 | 2.724398E+07 | 27243.98 | -5.828 | Manual | 10/18/2021 2:43:45 PM |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

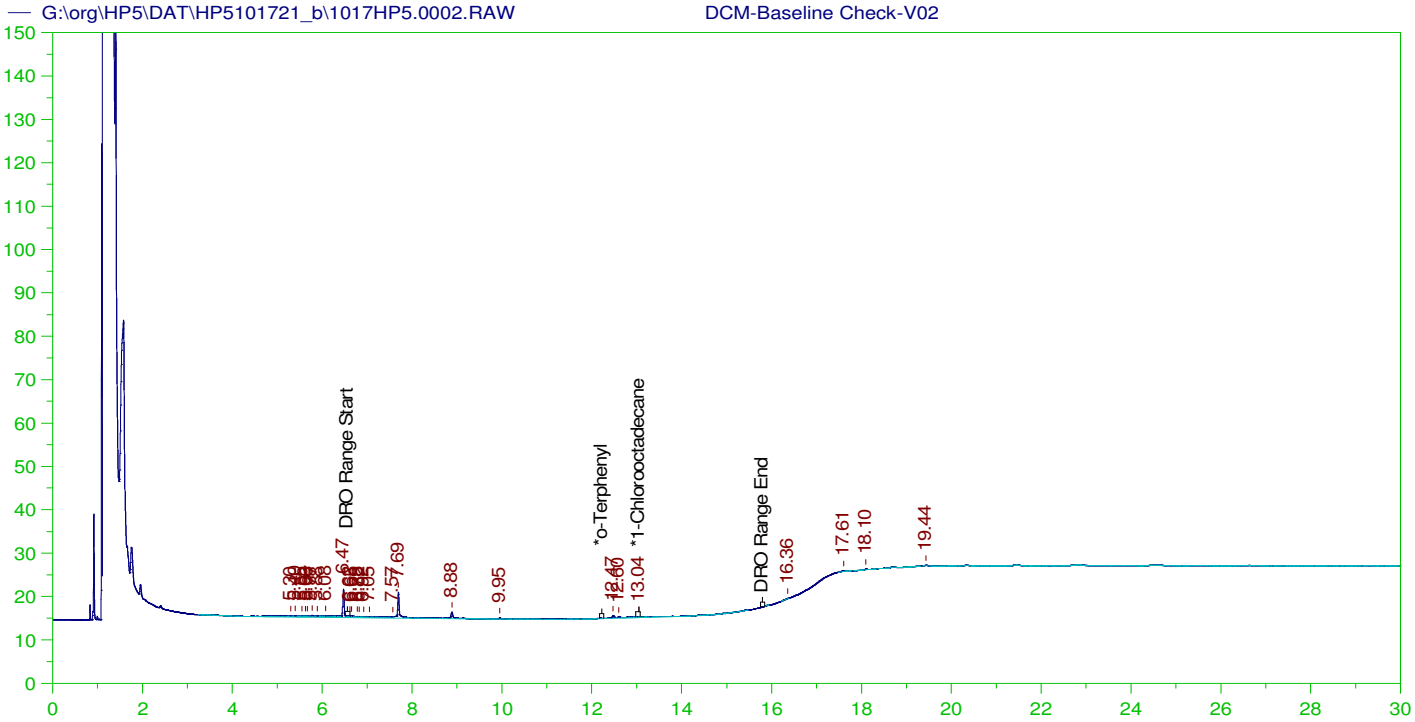
Sample Name: DCM-Baseline Check-V01
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0001.RAW
Date & Time Acquired: 10/17/2021 12:40:02 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.178 | 200. | .522 | .26 | - |
| *1-Chlorooctadecane | 13.04 | 200. | 1.235 | .62 | - |

DRO Area:571771.5 DRO Amount: 19.41016
TEH Area:639555.1 TEH Amount: 21.71124

G:\org\HP5\dat\HP5101721_b\Review\001_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

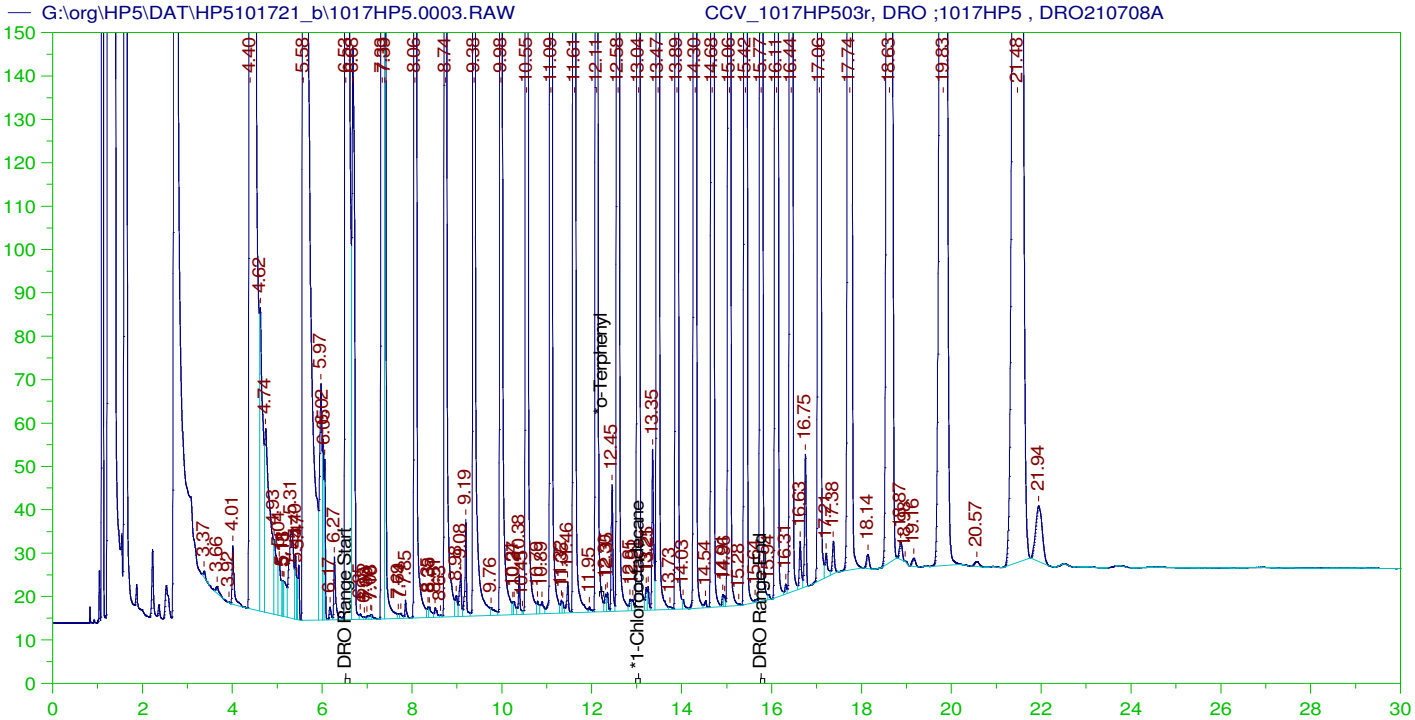
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0002.RAW
Date & Time Acquired: 10/17/2021 1:22:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 29.973 | 200. | . | . - |
| *1-Chlorooctadecane | 13.043 | 200. | .018 | .01 - |

DRO Area:58862.56 DRO Amount: 1.998231
TEH Area:105899.4 TEH Amount: 3.595009

G:\org\HP5\dat\HP5101721_b\Review\002_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1017HP503r, DRO ;1017HP5 , DRO210708A
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0003.RAW
Date & Time Acquired: 10/17/2021 2:04:53 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 29.982 | 200. | . | . - |
| *1-Chlorooctadecane | 13.037 | 200. | 255.634 | 127.82 - |

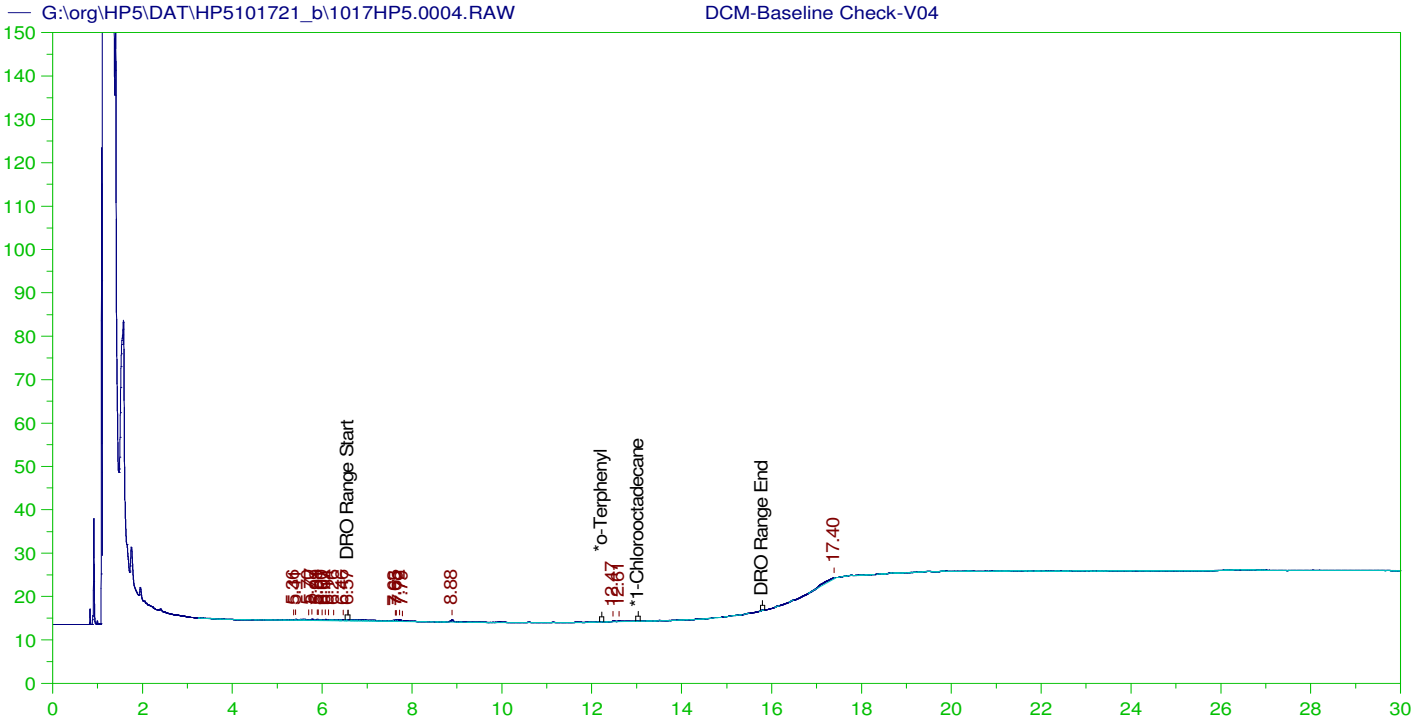
DRO Area:1.592713E+08 DRO Amount: 5406.847
TEH Area:2.370861E+08 TEH Amount: 8048.458

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0003.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8048.46 | 53.66 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.982 | 200. | . | . | 85-115 |
| *1-Chlorooctadecane | 13.037 | 200. | 255.634 | 127.82 | 85-115 |

G:\org\HP5\dat\HP5101721_b\Review\003_CCV_1017HP503r_DR_8015-HS-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

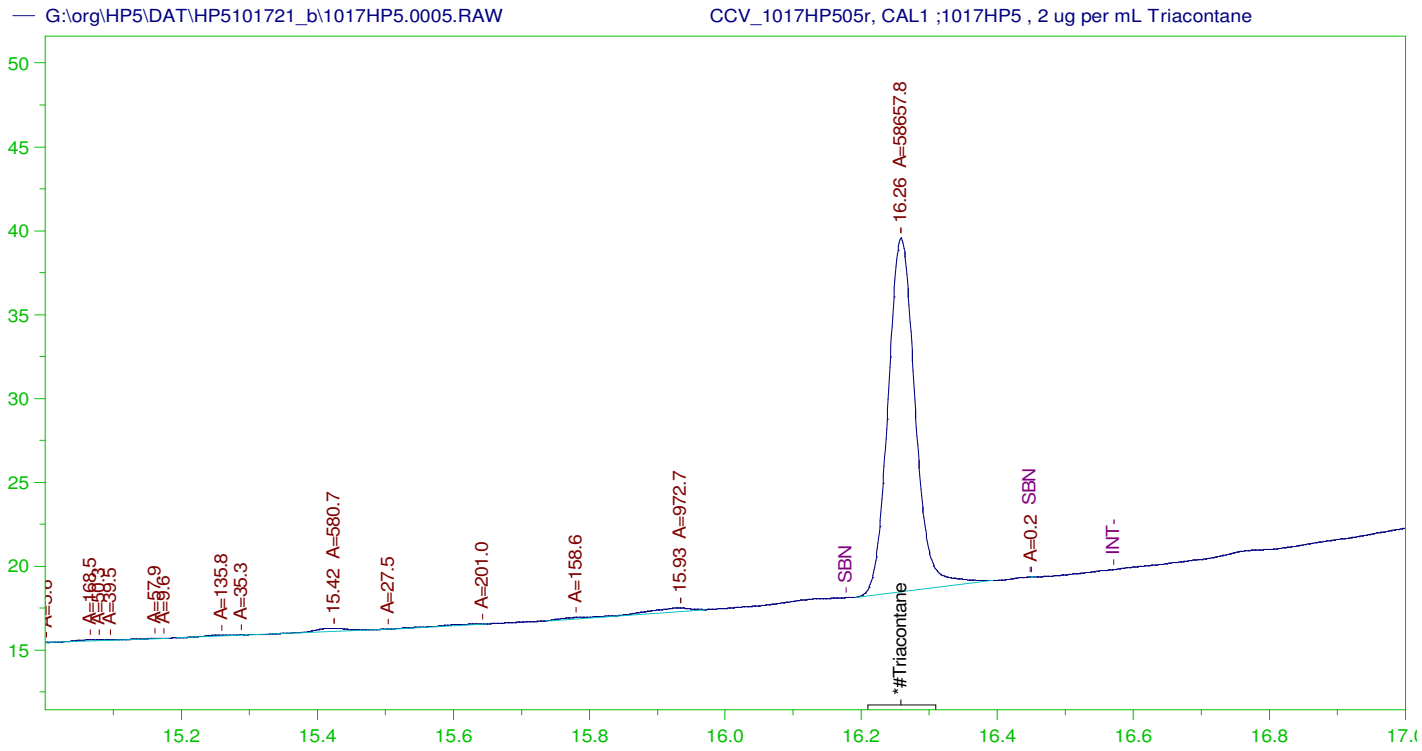
Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0004.RAW
Date & Time Acquired: 10/17/2021 2:47:29 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.987 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.987 | 200. | . | . | - |

DRO Area:32637.46 DRO Amount: 1.107957
TEH Area:75218.02 TEH Amount: 2.553457

G:\org\HP5\dat\HP5101721_b\Review\004_DCM-Baseline Chec_DR_8015-HS-LEXP.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1017HP505r, CAL1 ;1017HP5 , 2 ug per mL Triacontane
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0005.RAW
Date & Time Acquired: 10/17/2021 3:30:16 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AA-L0.met
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.53 to 30.05

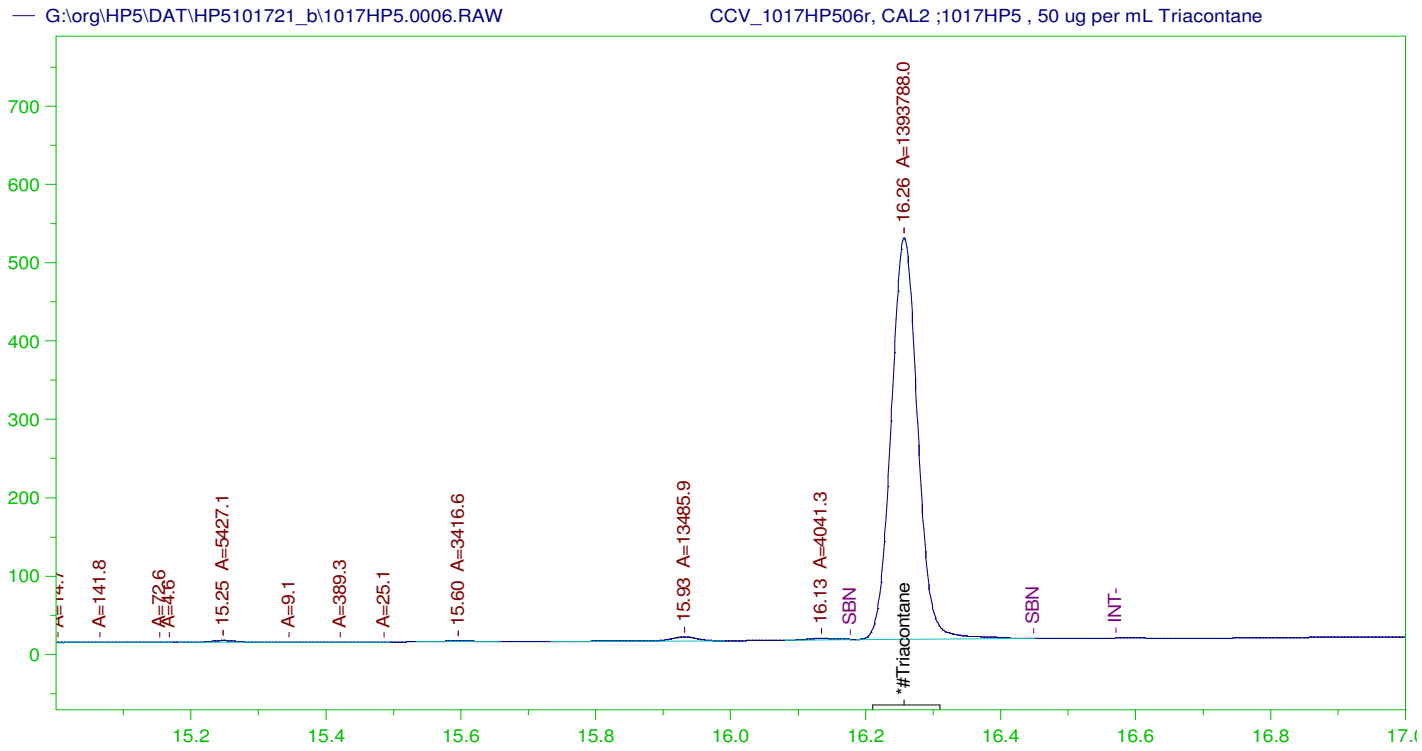
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.258 | 500. | 2.028 | .41 | - |

RRO Area:2747.039 RRO AMOUNT: 9.624412E-02

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.258 | 200. | 2.028 | 1.01 | 75-125 |




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1017HP506r, CAL2 ;1017HP5 , 50 ug per mL Triacontane
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0006.RAW
Date & Time Acquired: 10/17/2021 4:12:57 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AA-L0.met
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.53 to 30.05

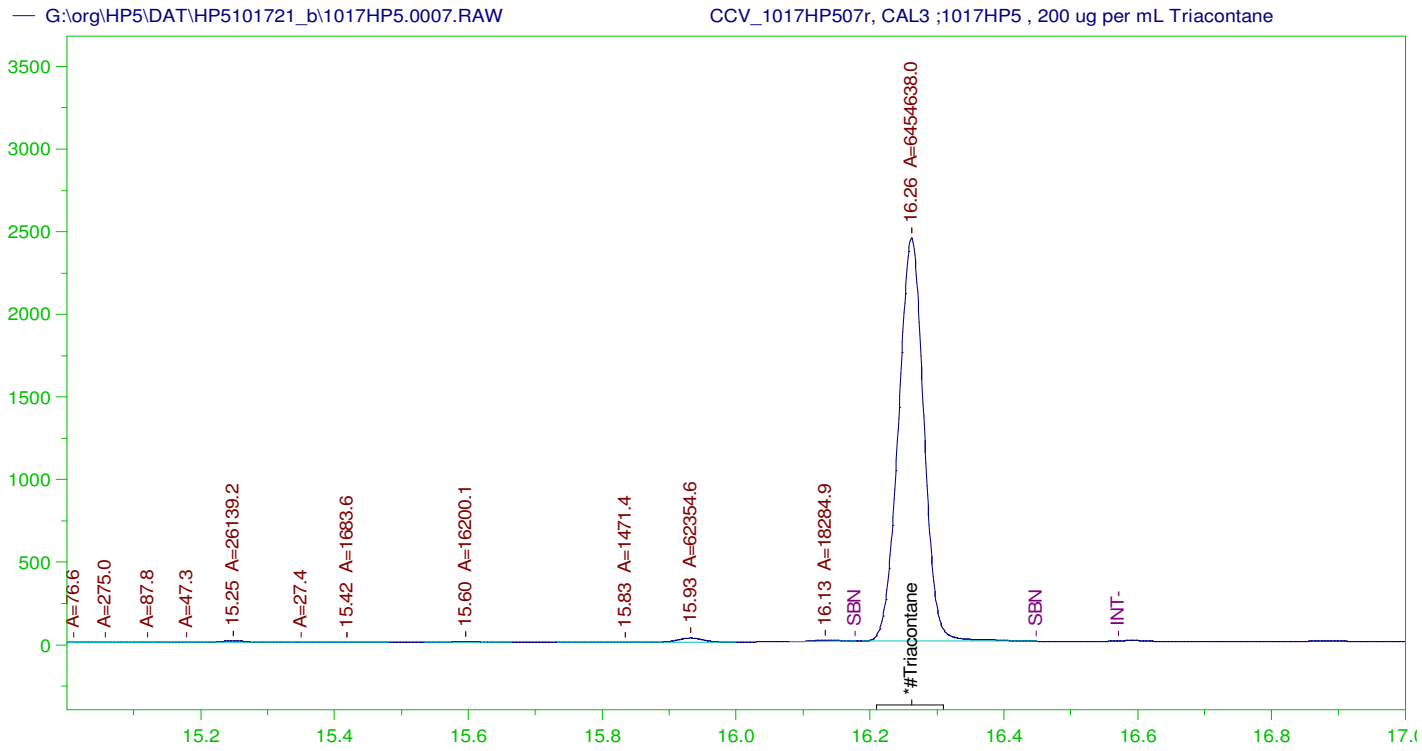
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.257 | 500. | 48.178 | 9.64 | - |

RRO Area:45902.25 RRO AMOUNT: 1.608212

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.257 | 200. | 48.178 | 24.09 | 75-125 |




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1017HP507r, CAL3 ;1017HP5 , 200 ug per mL Triacontane
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0007.RAW
Date & Time Acquired: 10/17/2021 4:55:33 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AA-L0.met
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.53 to 30.05

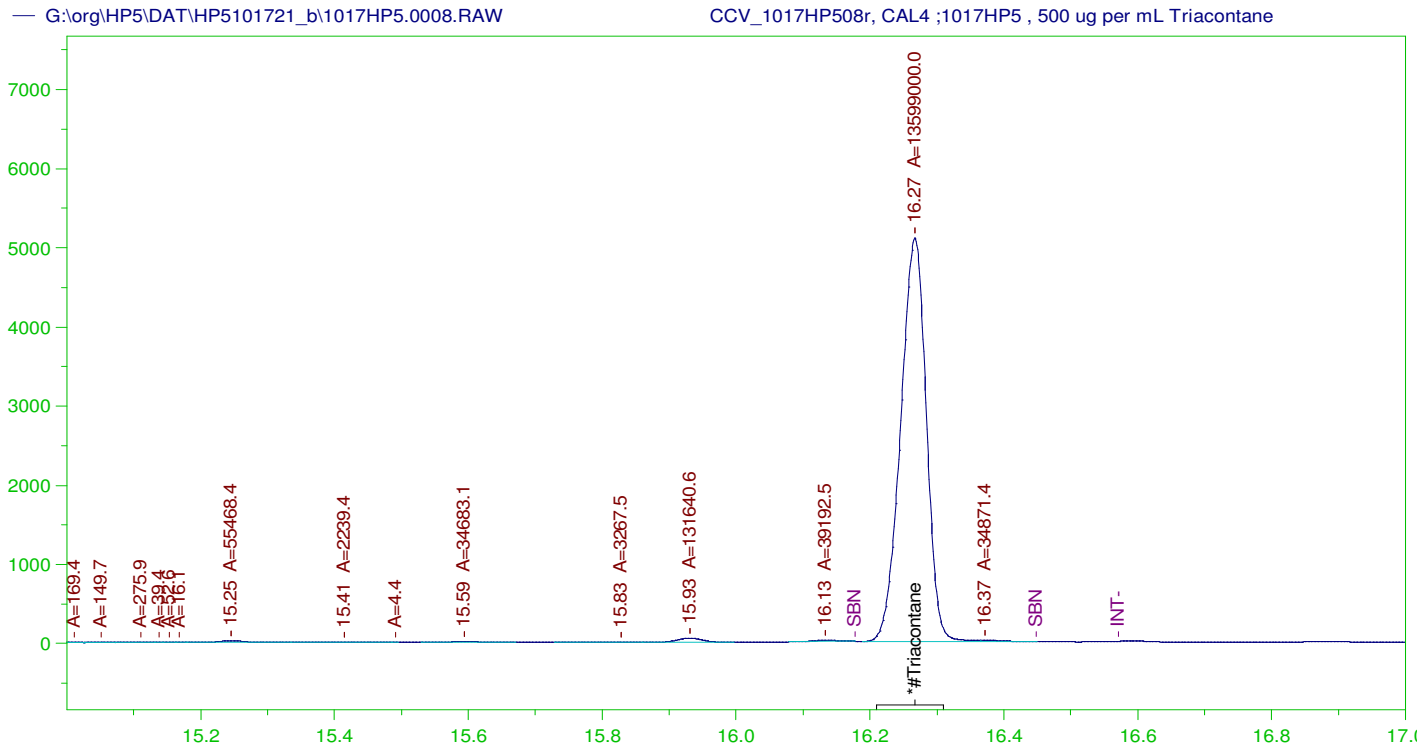
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.262 | 500. | 223.111 | 44.62 | - |

RRO Area:219754.5 RRO AMOUNT: 7.699227

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0007.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.262 | 200. | 223.111 | 111.56 | 75-125 |




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1017HP508r, CAL4 ;1017HP5 , 500 ug per mL Triacontane
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0008.RAW
Date & Time Acquired: 10/17/2021 5:38:10 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AA-L0.met
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.53 to 30.05

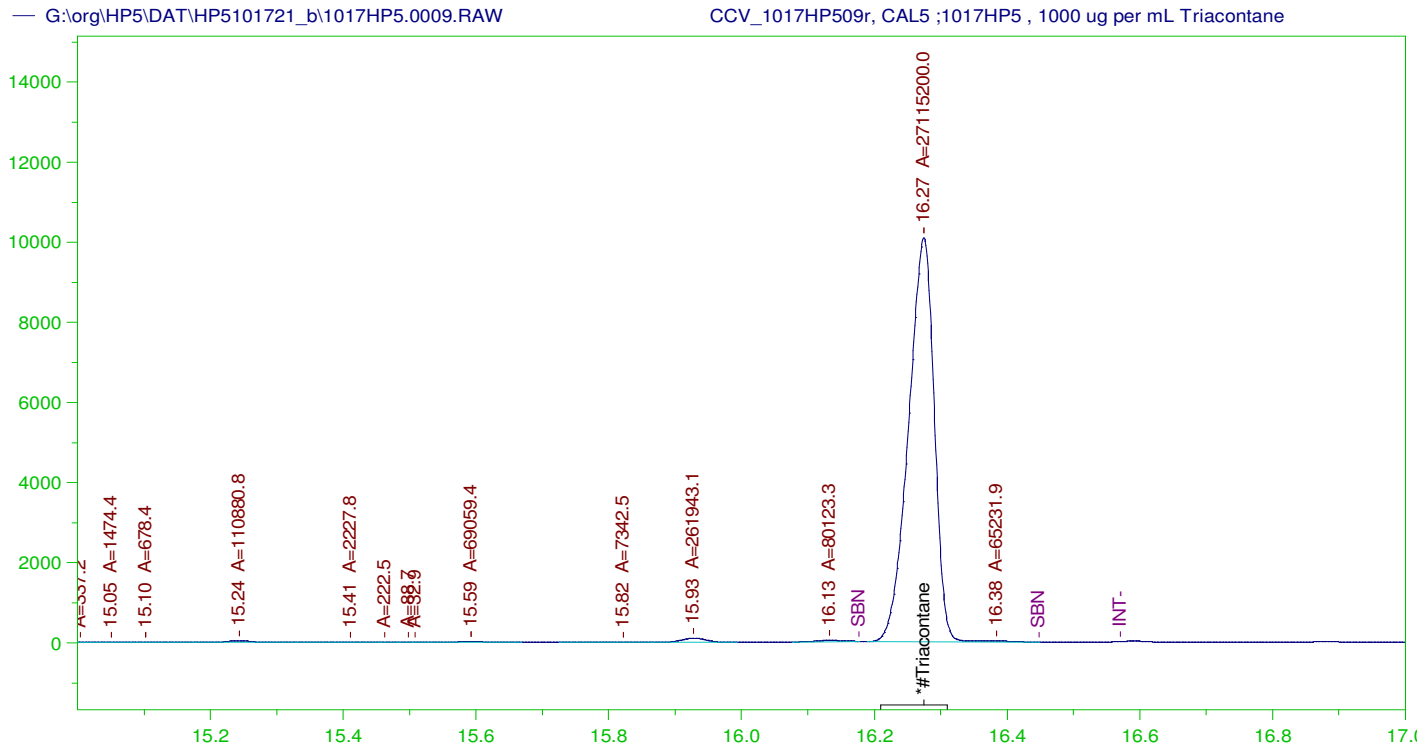
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.267 | 500. | 470.063 | 94.01 | - |

RRO Area:496538.4 RRO AMOUNT: 17.39651

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0008.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.267 | 200. | 470.063 | 235.03 | 75-125 |




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1017HP509r, CAL5 ;1017HP5 , 1000 ug per mL Triacontane
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0009.RAW
Date & Time Acquired: 10/17/2021 6:20:57 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AA-L0.met
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.53 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.275 | 500. | 937.265 | 187.45 | - |

RRO Area:979213.9 RRO AMOUNT: 34.30733

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0009.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.275 | 200. | 937.265 | 468.63 | 75-125 |

G:\org\HP5\dat\HP5101721_b\Review\009_CCV_1017HP509r_DS_ORO-AA-L0.xls

| Write Sequence<br>Data File | Insert Entries(Have the first cell for entries selecte<br>Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integration |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5101721_b\1017HP5.01r | DCM-Baseline Check-V01 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.03r | CCV_1017HP503r, DRO ;1017HP5 , DRO210708A | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.04r | DCM-Baseline Check-V04 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.05r | CCV_1017HP505r, CAL1 ;1017HP5 , 2 ug per mL Triacontane (10 uL of Cal3 + 990 uL DCM(14354) | G:\Org\HP5\Methods\DS_ORO-AA-L0.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.18 and slightly after the surrogate peak at 16.45 and scaling showing surrogate peak from 15.0-17.0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.06r | CCV_1017HP506r, CAL2 ;1017HP5 , 50 ug per mL Triacontane (100 uL Cal4 + 900 uL of DCM(14354) | G:\Org\HP5\Methods\DS_ORO-AA-L0.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.18 and slightly after the surrogate peak at 16.45 and scaling showing surrogate peak from 15.0-17.0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.07r | CCV_1017HP507r, CAL3 ;1017HP5 , 200 ug per mL Triacontane (100uL of Cal5 + 400 uL DCM(14354) | G:\Org\HP5\Methods\DS_ORO-AA-L0.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.18 and slightly after the surrogate peak at 16.45 and scaling showing surrogate peak from 15.0-17.0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.08r | CCV_1017HP508r, CAL4 ;1017HP5 , 500 ug per mL Triacontane (250uL of Cal5 + 250 uL DCM(14354) | G:\Org\HP5\Methods\DS_ORO-AA-L0.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.18 and slightly after the surrogate peak at 16.45 and scaling showing surrogate peak from 15.0-17.0 |
| G:\org\HP5\DAT\HP5101721_b\1017HP5.09r | CCV_1017HP509r, CAL5 ;1017HP5 , 1000 ug per mL Triacontane (500 uL 2000 ug/mL Triacontane DRO211006A + 500 DCM(14354) | G:\Org\HP5\Methods\DS_ORO-AA-L0.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.18 and slightly after the surrogate peak at 16.45 and scaling showing surrogate peak from 15.0-17.0 |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.25 17:42:58 -06:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/25/2021 9:28:31 A**

Prep Batch **160655** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/26/2021 10:44:00 A**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MB-160655 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/25/2021 | 10/26/2021 |
| Start time: 9:25 AM, 10/25/2021. End time: 10/26/2021 at 6:10 AM. SGT was carried out on the remaining 0.9 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| LCS-160655 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/25/2021 | 10/26/2021 |
| SGT was carried out on the remaining 0.9 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| LCS-160655-RRO | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 10/25/2021 | 10/26/2021 |
| All bottles were completely used and disposed of. SGT was carried out on the remaining 0.8 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| B21101904-001B | Ground Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear SGT was carried out on the remaining 0.9 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| B21101905-001B | Ground Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear | | | | | | | | | | |
| B21101906-001B | Ground Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000966 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear | | | | | | | | | | |
| B21101908-001B | Ground Water | 2 | 1030 | 0 | 0 | 1.00 | 0.000971 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear | | | | | | | | | | |
| B21101919-001A | Ground Water | 2 | 1040 | 0 | 0 | 1.00 | 0.000962 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear. Lines 8-19 Start time: 1:55 PM, 10/25/2021. End time: 10/26/2021 at 7:55 AM. SGT was carried out on the remaining 0.9 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| B21101919-001AMS | Ground Water | 2 | 530 | 0 | 0 | 1.00 | 0.00189 | | 10/25/2021 | 10/26/2021 |
| Bottle 2/2. Clear SGT was carried out on the remaining 0.8 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| B21101919-001AMSD | Ground Water | 2 | 530 | 0 | 0 | 1.00 | 0.00189 | | 10/25/2021 | 10/26/2021 |
| Bottle 2/2. Clear SGT was carried out on the remaining 0.8 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| B21101919-002A | Ground Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear SGT was carried out on the remaining 0.9 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| B21101919-002AMS-RRO | Ground Water | 2 | 500 | 0 | 0 | 1.00 | 0.002 | | 10/25/2021 | 10/26/2021 |
| Bottle 2/2. Clear SGT was carried out on the remaining 0.8 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| B21101919-002AMSD-RRO | Ground Water | 2 | 500 | 0 | 0 | 1.00 | 0.002 | | 10/25/2021 | 10/26/2021 |
| Bottle 2/2. Clear SGT was carried out on the remaining 0.8 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14408 | Dichloromethane EC328 | 8/19/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| FP211013 14051 | DCM RINSED FILTER PAPER | all | 1 | 4/6/2026 |
| Sulfate 10/17/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| DRO211009A | Triacontane SURR 1000 ug/mL | All except LCS, M | 100 uL | 4/6/2026 |
| DRO211012F | OTP SURR 2000 ug/mL | All except RRO-L | 100 uL | 9/30/2024 |
| SG211017(13376) | Baked Silica Gel | ALL SGT sample | 5 g | 2/28/2030 |
| DRO211012B | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **10/25/2021 9:28:31 A**

Prep Batch **160655** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **10/26/2021 10:44:00 A**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|---|---|---|---|---|---|---|---|---|---|---|
| B21101919-003A | Ground Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear SGT was carried out on the remaining 0.9 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| B21101919-004A | Ground Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear, sediment. SGT was carried out on the remaining 0.9 mL of sample by ALN on 10/27/2021 | | | | | | | | | | |
| B21101919-005A | Ground Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear | | | | | | | | | | |
| B21101919-006A | Ground Water | 2 | 1020 | 0 | 0 | 1.00 | 0.00098 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear | | | | | | | | | | |
| B21101919-007A | Ground Water | 2 | 1020 | 0 | 0 | 1.00 | 0.00098 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear | | | | | | | | | | |
| B21101924-001B | Ground Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000948 | | 10/25/2021 | 10/26/2021 |
| Bottle 1/2. Clear | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|---|---|---|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13378 | PTFE Boiling Stones 27089119 | 12/30/2025 |
| 13925 | pH-indicator Strips 0-14 HC155968 | 3/31/2025 |
| 14181 | 4ML, Amber Vial, 24166704 | 8/17/2026 |
| 14408 | Dichloromethane EC328 | 8/19/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|---|---|---|---|---|
| FP211013 14051 | DCM RINSED FILTER PAPER | all | 1 | 4/6/2026 |
| Sulfate 10/17/21 ( | Baked Sodium Sulfate | all | Varies | 8/30/2026 |
| DRO211009A | Triacontane SURR 1000 ug/mL | All except LCS, M | 100 uL | 4/6/2026 |
| DRO211012F | OTP SURR 2000 ug/mL | All except RRO-L | 100 uL | 9/30/2024 |
| SG211017(13376) | Baked Silica Gel | ALL SGT sample | 5 g | 2/28/2030 |
| DRO211012B | #2 Diesel in Acetone 150,000 ug/mL | LCS, MS, MSD | 100 uL | 11/5/2023 |
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In D | LCS-RRO, MS-R | 100 uL | 9/1/2026 |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*17-Nov-21*

**Run ID** GCFID-HP5-B_211026A

**Run Start Date:** 10/26/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER | 3/5/2028 |
| DRO211008A | 5,000 ug/mL RRO CCV 200 ug/mL Triacontane | | | | | CCV-RRO | 9/30/2024 |
| DRO211019A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802308 | CCV_1026HP50 | HC-8015-DRO- | CCV | | 10/26/2021 10:4 | 1 | R369302 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.66193066 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 93% | 80 | 120 | 0% | |
| n-Triacontane | S | mg/L | | 0.1918188 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 96% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802309 | CCV_1026HP50 | HC-8015-DRO- | CCV | | 10/26/2021 11:2 | 1 | R369302 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.59476 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 97% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.12456 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 101% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2108243 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802310 | LCS-160655 | HC-8015-DRO- | LCS-DOD | | 10/26/2021 12:5 | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802310 | LCS-160655 | HC-8015-DRO- | LCS-DOD | | 10/26/2021 12:5 | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 13.10165 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 87% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 14.09677 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 94% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1918963 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 96% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802311 | MB-160655 | HC-8015-DRO- | MBLK | | 10/26/2021 1:37: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0749 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| n-Triacontane | S | mg/L | | 0.0823 | | 0.1 | 0 | 0 | 0.000336 | 0.002 | 0 | 82% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.185564 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 93% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802312 | B21101904-001 | HC-8015-DRO- | SAMP | | 10/26/2021 2:20: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.8394392 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.57346344 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 1.646585 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| n-Triacontane | S | mg/L | | 0.0874 | | 0.0948 | 0 | 0 | 0.0003185 | 0.002 | 0 | 92% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1724575 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 91% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802313 | B21101905-001 | HC-8015-DRO- | SAMP | | 10/26/2021 4:29: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| n-Triacontane | S | mg/L | | 0.0789 | | 0.0948 | 0 | 0 | 0.0003185 | 0.002 | 0 | 83% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1763757 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 93% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802314 | B21101906-001 | HC-8015-DRO- | SAMP | | 10/26/2021 6:40: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0375774 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0849114 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0723534 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| n-Triacontane | S | mg/L | | 0.0838 | | 0.0966 | 0 | 0 | 0.0003246 | 0.002 | 0 | 87% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1838322 | | 0.1932 | 0 | 0 | 0.0004144 | 0.002 | 0 | 95% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802315 | B21101908-001 | HC-8015-DRO- | SAMP | | 10/26/2021 8:50: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0377719 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0853509 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0727279 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| n-Triacontane | S | mg/L | | 0.0767 | | 0.0971 | 0 | 0 | 0.0003263 | 0.002 | 0 | 79% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1687226 | | 0.1942 | 0 | 0 | 0.0004166 | 0.002 | 0 | 87% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802316 | CCV_1026HP52 | HC-8015-DRO- | CCV | | 10/26/2021 10:1 | 1 | R369302 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.70685938 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 94% | 80 | 120 | 0% | |
| n-Triacontane | S | mg/L | | 0.193409 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 97% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802317 | CCV_1026HP52 | HC-8015-DRO- | CCV | | 10/26/2021 11:0 | 1 | R369302 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.77381 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.30857 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 102% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2152403 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 108% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802318 | B21101924-001 | HC-8015-DRO- | SAMP | | 10/27/2021 12:2 | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| n-Triacontane | S | mg/L | | 0.0774 | | 0.0948 | 0 | 0 | 0.0003185 | 0.002 | 0 | 82% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1682653 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 89% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802319 | B21101919-007 | HC-8015-DRO- | SAMP | | 10/27/2021 2:36: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.086142 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.073402 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| n-Triacontane | S | mg/L | | 0.0847 | | 0.098 | 0 | 0 | 0.0003293 | 0.002 | 0 | 86% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1857261 | | 0.196 | 0 | 0 | 0.0004204 | 0.002 | 0 | 95% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802320 | B21101919-006 | HC-8015-DRO- | SAMP | | 10/27/2021 3:19: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.038122 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.086142 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.073402 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| n-Triacontane | S | mg/L | | 0.0768 | | 0.098 | 0 | 0 | 0.0003293 | 0.002 | 0 | 78% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1704527 | | 0.196 | 0 | 0 | 0.0004204 | 0.002 | 0 | 87% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802321 | B21101919-005 | HC-8015-DRO- | SAMP | | 10/27/2021 4:46: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| n-Triacontane | S | mg/L | | 0.0755 | | 0.0952 | 0 | 0 | 0.0003199 | 0.002 | 0 | 79% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802321 | B21101919-005 | HC-8015-DRO- | SAMP | | 10/27/2021 4:46: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | S | mg/L | | 0.1648463 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 87% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802322 | B21101919-004 | HC-8015-DRO- | SAMP | | 10/27/2021 5:29: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.09060103 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.1333328 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.2910614 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| n-Triacontane | S | mg/L | | 0.0844 | | 0.0948 | 0 | 0 | 0.0003185 | 0.002 | 0 | 89% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1619904 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 85% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802323 | B21101919-003 | HC-8015-DRO- | SAMP | | 10/27/2021 6:56: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.1539721 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.28450301 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.4964609 | | 0 | 0 | 0 | 0.0710052 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| n-Triacontane | S | mg/L | | 0.082 | | 0.0948 | 0 | 0 | 0.0003185 | 0.002 | 0 | 86% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1387042 | | 0.1896 | 0 | 0 | 0.0004067 | 0.002 | 0 | 73% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802324 | B21101919-002 | HC-8015-DRO- | SAMP | | 10/27/2021 7:38: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 3.038359 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.30016878 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 3.419842 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| n-Triacontane | S | mg/L | | 0.0824 | | 0.0952 | 0 | 0 | 0.0003199 | 0.002 | 0 | 87% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1256686 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 66% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802325 | B21101919-001 | HC-8015-DRO- | SAMP | | 10/27/2021 8:22: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.6732249 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40 | A | mg/L | | 0.24920167 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 1.192566 | | 0 | 0 | 0 | 0.0720538 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| n-Triacontane | S | mg/L | | 0.0806 | | 0.0962 | 0 | 0 | 0.0003232 | 0.002 | 0 | 84% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1759206 | | 0.1924 | 0 | 0 | 0.0004127 | 0.002 | 0 | 91% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802326 | CCV_1026HP53 | HC-8015-DRO- | CCV | | 10/27/2021 9:48: | 1 | R369302 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.80071338 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 96% | 80 | 120 | 0% | |
| n-Triacontane | S | mg/L | | 0.1947551 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 97% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14802327 | CCV_1026HP53 | HC-8015-DRO- | CCV | | 10/27/2021 10:3 | 1 | R369302 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.62936 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 98% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.15307 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 101% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2127606 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14805828 | LCS-160655-RR | HC-8015-DRO- | LCS-DOD | | 10/27/2021 11:5 | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.71704769 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 94% | 41 | 113 | 0% | |
| n-Triacontane | S | mg/L | | 0.0849 | | 0.1 | 0 | 0 | 0.000336 | 0.002 | 0 | 85% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14805829 | B21101919-002 | HC-8015-DRO- | MS-DOD | | 10/27/2021 1:22: | 1 | 160655 | 10/25/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 8.9441433 | | 10 | 0.3696731 | 0 | 0.1758 | 0.6 | 0 | 86% | 41 | 113 | 0% | |
| n-Triacontane | S | mg/L | | 0.1597 | | 0.2 | 0 | 0 | 0.000672 | 0.004 | 0 | 80% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14805830 | B21101919-002 | HC-8015-DRO- | MSD-DOD | | 10/27/2021 2:47: | 1 | 160655 | 10/25/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 9.51073360 | | 10 | 0.3696731 | 8.9441433 | 0.1758 | 0.6 | 0 | 91% | 41 | 113 | 6% | |
| n-Triacontane | S | mg/L | | 0.1647 | | 0.2 | 0 | 0 | 0.000672 | 0.004 | 0 | 82% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14805831 | B21101919-001 | HC-8015-DRO- | MS-DOD | | 10/27/2021 4:12: | 1 | 160655 | 10/25/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 25.84017 | | 28.35 | 0.6732249 | 0 | 0.073521 | 0.567 | 0 | 89% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 28.14851 | | 28.35 | 1.192566 | 0 | 0.141561 | 0.567 | 50 | 95% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.3424449 | | 0.378 | 0 | 0 | 0.0008108 | 0.00378 | 0 | 91% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14805832 | B21101919-001 | HC-8015-DRO- | MSD-DOD | | 10/27/2021 5:39: | 1 | 160655 | 10/25/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 25.12333 | | 28.35 | 0.6732249 | 25.84017 | 0.073521 | 0.567 | 0 | 86% | 36 | 132 | 3% | |
| Total Extractable Hydrocarbons | A | mg/L | | 27.28586 | | 28.35 | 1.192566 | 28.14851 | 0.141561 | 0.567 | 50 | 92% | 60 | 132 | 3% | |
| o-Terphenyl | S | mg/L | | 0.3552435 | | 0.378 | 0 | 0 | 0.0008108 | 0.00378 | 0 | 94% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14805833 | CCV_1026HP55 | HC-8015-DRO- | CCV | | 10/27/2021 7:05: | 1 | R369302 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.58011230 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 92% | 80 | 120 | 0% | |
| n-Triacontane | S | mg/L | | 0.1939868 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 97% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14805834 | CCV_1026HP55 | HC-8015-DRO- | CCV | | 10/27/2021 7:48: | 1 | R369302 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.50402 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 97% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.01929 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2113587 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 106% | 80 | 120 | 0% | |

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

*08-Nov-21*

**Run ID** GCFID-HP5-B_211026B

**Run Start Date:** 10/26/2021
**Analyst:** Ann Nebel
**Ical:**
**Column ID:**
**Comments:** DRO-8015-ICAL information is in Index GCFID-HP5-B_210108B 8015C OIL range calibration GCFID-HP5-B_210218B

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---|---|---|---|---|---|---|---|
| DRO210708A | Carbon Scan STD-Marker | | | | | MARKER | 3/5/2028 |
| DRO211008A | 5,000 ug/mL RRO CCV 200 ug/mL Triacontane | | | | | CCV-RRO | 9/30/2024 |
| DRO211019A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806543 | CCV_1026HP55 | HC-8015-DRO- | CCV | | 10/27/2021 7:05: | 1 | R369371 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.58011230 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 92% | 80 | 120 | 0% | |
| n-Triacontane | S | mg/L | | 0.1939868 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 97% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806544 | CCV_1026HP55 | HC-8015-DRO- | CCV | | 10/27/2021 7:48: | 1 | R369371 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 14.50402 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 97% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.01929 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 100% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2113587 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 106% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806545 | LCS-160655 | HC-8015-DRO- | LCS-DOD | | 10/27/2021 9:14: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806545 | LCS-160655 | HC-8015-DRO- | LCS-DOD | | 10/27/2021 9:14: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 12.73793 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 85% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 13.75736 | | 15 | 0 | 0 | 0.0329 | 0.3 | 0 | 92% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.194088 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 97% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806546 | MB-160655 | HC-8015-DRO- | MBLK | | 10/27/2021 9:57: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0329 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| n-Triacontane (SGT) | S | mg/L | | 0.0795 | | 0.1 | 0 | 0 | 0.000336 | 0.002 | 0 | 79% | 50 | 150 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1825477 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 91% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806547 | B21101919-004 | HC-8015-DRO- | SAMP | | 10/27/2021 10:4 | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0.03311487 | | 0 | 0 | 0 | 0.0311892 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| n-Triacontane (SGT) | S | mg/L | | 0.0758 | | 0.0948 | 0 | 0 | 0.0003185 | 0.001896 | 0 | 80% | 50 | 150 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1525588 | | 0.1896 | 0 | 0 | 0.0004067 | 0.001896 | 0 | 80% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806548 | B21101919-003 | HC-8015-DRO- | SAMP | | 10/27/2021 11:2 | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0.0353149 | | 0 | 0 | 0 | 0.0311892 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| n-Triacontane (SGT) | S | mg/L | | 0.0792 | | 0.0948 | 0 | 0 | 0.0003185 | 0.001896 | 0 | 84% | 50 | 150 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.139976 | | 0.1896 | 0 | 0 | 0.0004067 | 0.001896 | 0 | 74% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806549 | B21101904-001 | HC-8015-DRO- | SAMP | | 10/28/2021 12:0 | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0368772 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0833292 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0.05328983 | | 0 | 0 | 0 | 0.0311892 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| n-Triacontane (SGT) | S | mg/L | | 0.0802 | | 0.0948 | 0 | 0 | 0.0003185 | 0.001896 | 0 | 85% | 50 | 150 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1861807 | | 0.1896 | 0 | 0 | 0.0004067 | 0.001896 | 0 | 98% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806550 | B21101919-002 | HC-8015-DRO- | SAMP | | 10/28/2021 1:32: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0.7882586 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0.821276 | | 0 | 0 | 0 | 0.0313208 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| n-Triacontane (SGT) | S | mg/L | | 0.0841 | | 0.0952 | 0 | 0 | 0.0003199 | 0.001904 | 0 | 88% | 50 | 150 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.131149 | | 0.1904 | 0 | 0 | 0.0004084 | 0.001904 | 0 | 69% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806551 | B21101919-001 | HC-8015-DRO- | SAMP | | 10/28/2021 2:15: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0.138432 | | 0 | 0 | 0 | 0.0374218 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0845598 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0.1566338 | | 0 | 0 | 0 | 0.0316498 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| n-Triacontane (SGT) | S | mg/L | | 0.0773 | | 0.0962 | 0 | 0 | 0.0003232 | 0.001924 | 0 | 80% | 50 | 150 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1740718 | | 0.1924 | 0 | 0 | 0.0004127 | 0.001924 | 0 | 90% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806552 | B21101919-001 | HC-8015-DRO- | MS-DOD | | 10/28/2021 2:58: | 1 | 160655 | 10/25/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 22.78609 | | 28.35 | 0 | 0 | 0.073521 | 0.567 | 0 | 80% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 24.2711 | | 28.35 | 0.1566338 | 0 | 0.062181 | 0.567 | 0 | 85% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.3174023 | | 0.378 | 0 | 0 | 0.0008108 | 0.00378 | 0 | 84% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806553 | B21101919-001 | HC-8015-DRO- | MSD-DOD | | 10/28/2021 3:41: | 1 | 160655 | 10/25/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 19.78866 | | 28.35 | 0 | 22.78609 | 0.073521 | 0.567 | 0 | 70% | 36 | 132 | 14% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 21.05711 | | 28.35 | 0.1566338 | 24.2711 | 0.062181 | 0.567 | 0 | 74% | 60 | 132 | 14% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.2983716 | | 0.378 | 0 | 0 | 0.0008108 | 0.00378 | 0 | 79% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806554 | LCS-160655-RR | HC-8015-DRO- | LCS-DOD | | 10/28/2021 5:07: | 1 | 160655 | 10/25/2021 | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 4.16446972 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 83% | 41 | 113 | 0% | |
| n-Triacontane (SGT) | S | mg/L | | 0.0729 | | 0.1 | 0 | 0 | 0.000336 | 0.002 | 0 | 73% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806555 | CCV_1026HP56 | HC-8015-DRO- | CCV | | 10/28/2021 6:32: | 1 | R369371 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.85234473 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 97% | 80 | 120 | 0% | |
| n-Triacontane | S | mg/L | | 0.1983931 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806556 | CCV_1026HP56 | HC-8015-DRO- | CCV | | 10/28/2021 7:15: | 1 | R369371 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.14517 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 101% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 15.68906 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 105% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2179993 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 109% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806557 | B21101919-002 | HC-8015-DRO- | MS-DOD | | 10/28/2021 8:41: | 1 | 160655 | 10/25/2021 | 1E+07 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 7.19957972 | | 10 | 0 | 0 | 0.1758 | 0.6 | 0 | 72% | 41 | 113 | 0% | |
| n-Triacontane (SGT) | S | mg/L | | 0.1259 | | 0.2 | 0 | 0 | 0.000672 | 0.004 | 0 | 63% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806558 | B21101919-002 | HC-8015-DRO- | MSD-DOD | | 10/28/2021 10:5 | 1 | 160655 | 10/25/2021 | 1E+07 | 1E+07 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH (SGT-Oil Range) | A | mg/L | | 8.00359726 | | 10 | 0 | 7.1995797 | 0.1758 | 0.6 | 0 | 80% | 41 | 113 | 11% | |
| n-Triacontane (SGT) | S | mg/L | | 0.1417 | | 0.2 | 0 | 0 | 0.000672 | 0.004 | 0 | 71% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14806559 | CCV_1026HP57 | HC-8015-DRO- | CCV | | 10/28/2021 12:1 | 1 | R369371 | | 0 | 0 | |

| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEH(Oil Range) | A | mg/L | | 4.73446582 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 95% | 80 | 120 | 0% | |
| n-Triacontane | S | mg/L | | 0.1936757 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 97% | 80 | 120 | 0% | |

Write Sequence

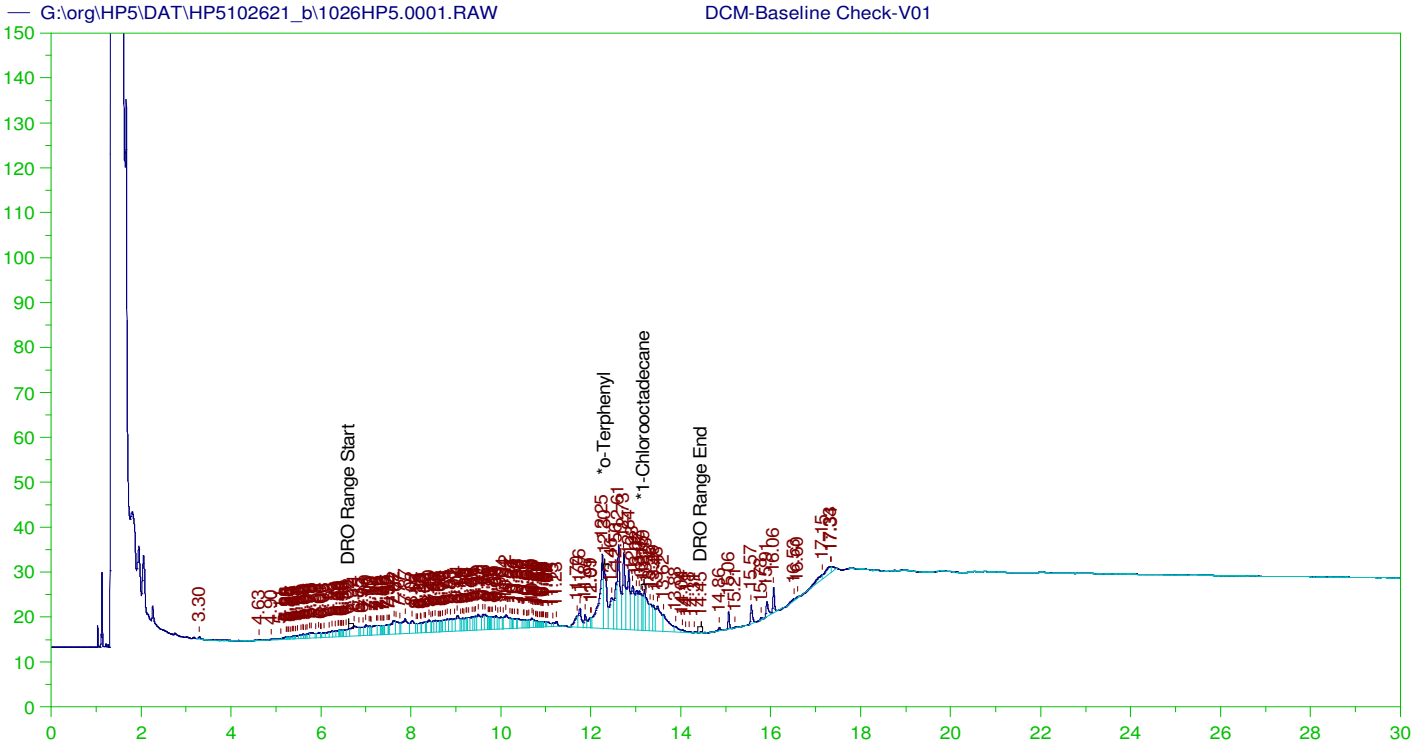
Insert Entries(Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5102621_b\1026HP5.01r | DCM-Baseline Check-V01 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.03r | DCM-Baseline Check-V03 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.04r | Marker_1026HP504r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.05r | CCV_1026HP505r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.06r | CCV_1026HP506r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.07r | DCM-Baseline Check-V07 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.08r | LCS-160655 ;1026HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.09r | MB-160655 ;1026HP5 , | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.10r | B21101904-001B ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24T-102610-HU-L%.met<br>G:\Org\HP5\Methods\D3_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.11r | DCM-Baseline Check-V11 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.12r | DCM-Baseline Check-V12 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.13r | B21101905-001B ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.15r | DCM-Baseline Check-V15 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.16r | B21101906-001B ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1035 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.17r | DCM-Baseline Check-V17 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.18r | DCM-Baseline Check-V18 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.19r | B21101908-001B ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1030 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.20r | Marker_1026HP520r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.21r | CCV_1026HP521r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.22r | CCV_1026HP522r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.24r | B21101924-001B ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.25r | DCM-Baseline Check-V25 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.26r | DCM-Baseline Check-V26 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.27r | B21101919-007A ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.28r | B21101919-006A ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1020 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.30r | B21101919-005A ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.31r | B21101919-004A ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\D3_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.32r | DCM-Baseline Check-V32 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.33r | B21101919-003A ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\D3_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.34r | B21101919-002A ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\D3_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.35r | B21101919-001A ;1026HP5 ,  $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\D3_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.36r | Marker_1026HP536r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.37r | CCV_1026HP537r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.38r | CCV_1026HP538r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.39r | DCM-Baseline Check-V39 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.40r | LCS-160655-RRO ;1026HP5 , | G:\Org\HP5\Methods\D3_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-102640-AB-L#.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.41r | DCM-Baseline Check-V41 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.42r | B21101919-002AMS-RRO ;1026HP5 , | G:\Org\HP5\Methods\D3_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.43r | DCM-Baseline Check-V43 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.44r | B21101919-002AMSD-RRO ;1026HP5 , | G:\Org\HP5\Methods\D3_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.45r | DCM-Baseline Check-V45 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.46r | B21101919-001AMS ;1026HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 530 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.47r | DCM-Baseline Check-V47 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.48r | B21101919-001AMSD ;1026HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 530 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.49r | Marker_1026HP549r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.50r | CCV_1026HP550r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.51r | CCV_1026HP551r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 |

Write Sequence

Insert Entries(Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5102621_b\1026HP5.49r | Marker_1026HP549r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.50r | CCV_1026HP550r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_OROS-AB-L#.MET | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.51r | CCV_1026HP551r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.52r | DCM-Baseline Check-V52 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.53r | LCS-160655 ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.54r | MB-160655 ;1026HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.55r | B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.56r | B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.57r | B21101904-001B ;1026HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1055 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.58r | DCM-Baseline Check-V58 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.59r | B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-102659-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1050 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.60r | B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-102659-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1040 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.61r | B21101919-001AMS ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 530 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.62r | B21101919-001AMSD ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_8015-102662-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 530 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.64r | LCS-160655-RRO ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET | 1000 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.65r | Marker_1026HP565r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.66r | CCV_1026HP566r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_OROS-AB-L#.MET | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.67r | CCV_1026HP567r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.68r | DCM-Baseline Check-V68 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.69r | B21101919-002AMS-RRO ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_ORO-102669-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.70r | DCM-Baseline Check-V70 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.72r | B21101919-002AMSD-RRO ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_ORO-102669-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET | 500 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.73r | Marker_1026HP573r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026b.met | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.74r | CCV_1026HP574r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_OROS-AB-L#.MET | 1 | 1 | 1 | 1 | 0 |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.75r | CCV_1026HP575r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

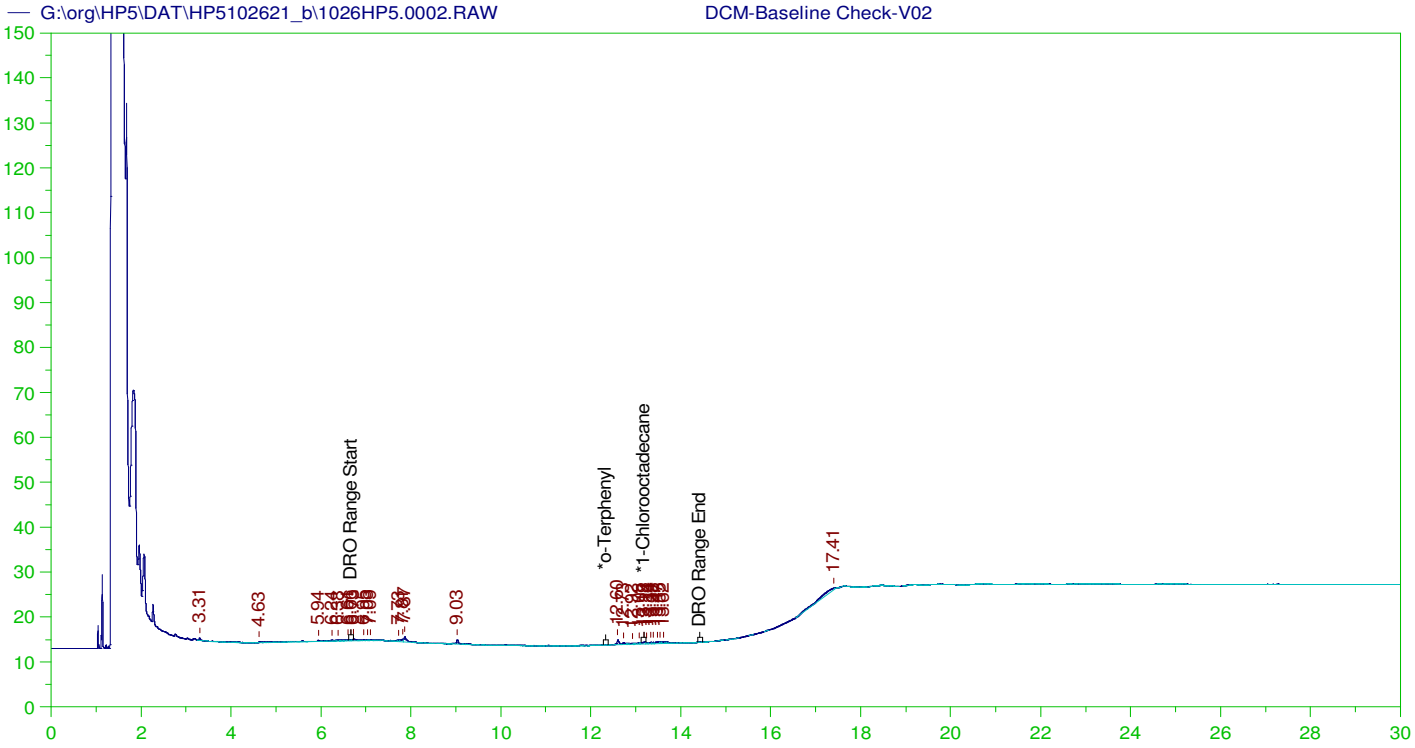
Sample Name: DCM-Baseline Check-V01
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0001.RAW
Date & Time Acquired: 10/26/2021 7:41:25 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.305 | 200. | 1.706 | .85 | - |
| *1-Chlorooctadecane | 13.187 | 200. | .802 | .4 | - |

DRO Area:1397223 DRO Amount: 47.43209
TEH Area:1585535 TEH Amount: 53.82478

G:\org\HP5\dat\HP5102621_b\Review\001_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

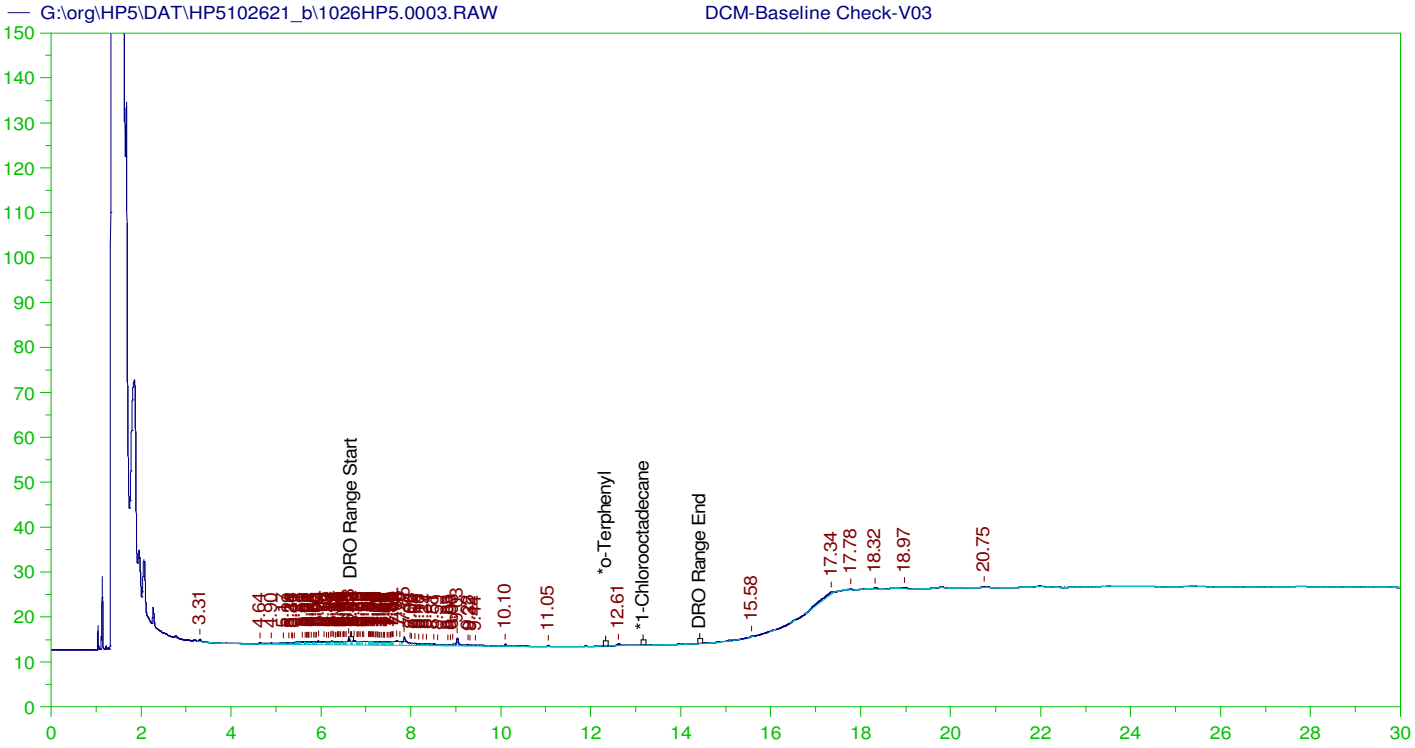
Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0002.RAW
Date & Time Acquired: 10/26/2021 8:23:58 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 29.958 | 200. | . | . - |
| *1-Chlorooctadecane | 13.18 | 200. | .058 | .03 - |

DRO Area:50560.04 DRO Amount: 1.716382
TEH Area:92435.9 TEH Amount: 3.137959

G:\org\HP5\dat\HP5102621_b\Review\002_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

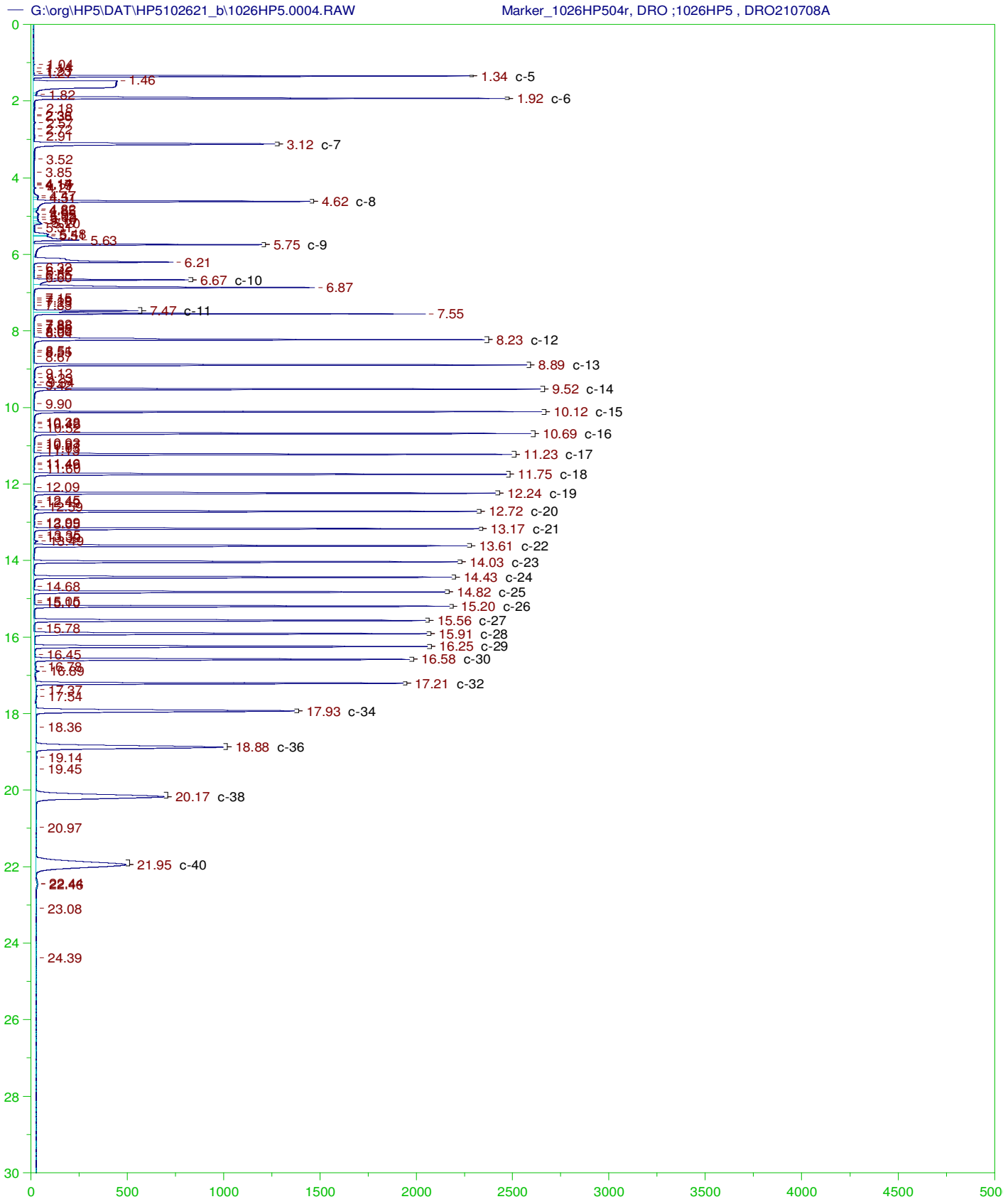
Sample Name: DCM-Baseline Check-V03
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0003.RAW
Date & Time Acquired: 10/26/2021 9:20:29 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.994 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.994 | 200. | . | . | - |

DRO Area:102761.6 DRO Amount: 3.48849
TEH Area:182564.3 TEH Amount: 6.197584

G:\org\HP5\dat\HP5102621_b\Review\003_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

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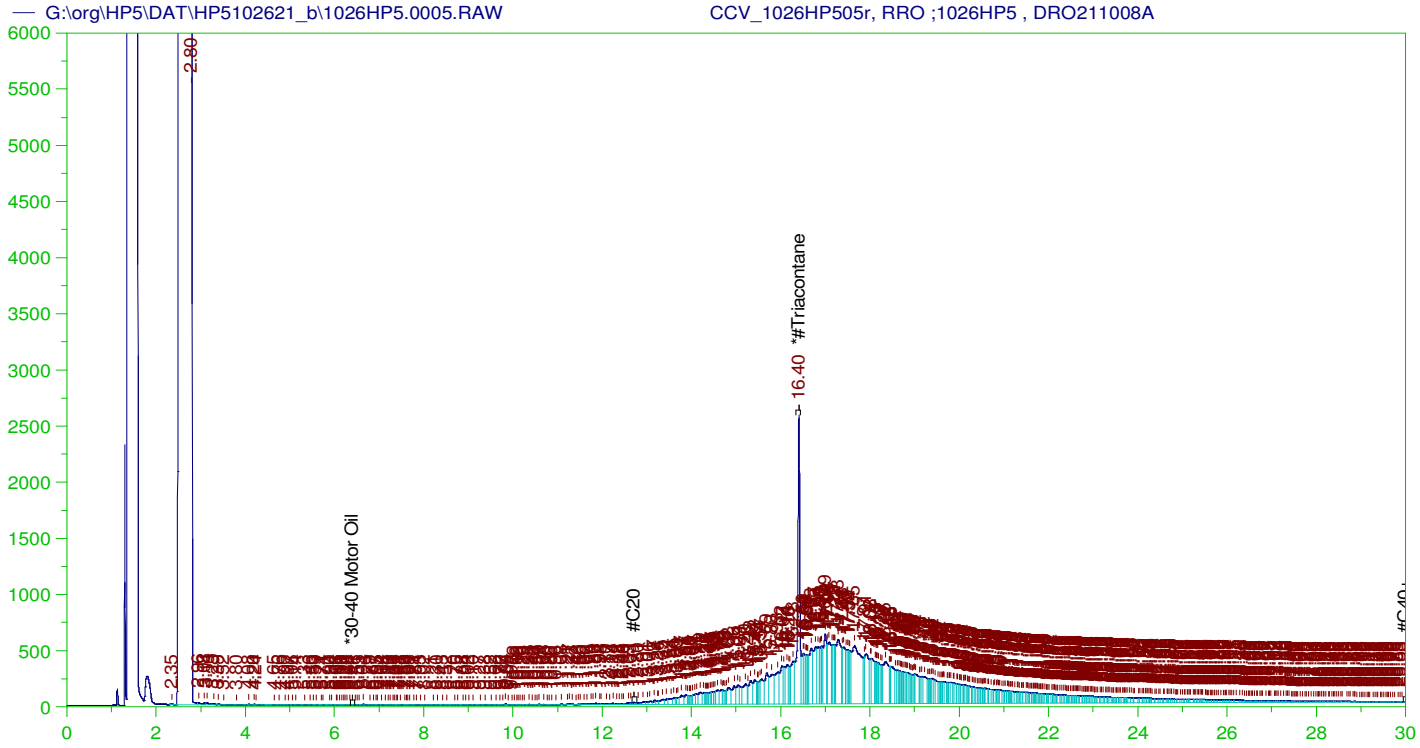



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP505r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0005.RAW
Date & Time Acquired: 10/26/2021 10:46:21 AM
Method File: G:\Org\HP5\Methods\DC_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.405 | 500. | 323.948 | 64.79 | - |

~~RRO~~ TEH(Oil Range)Area:1.330627E+08 ~~RRO~~ TEH(Oil Range)AMOUNT: 4661.931

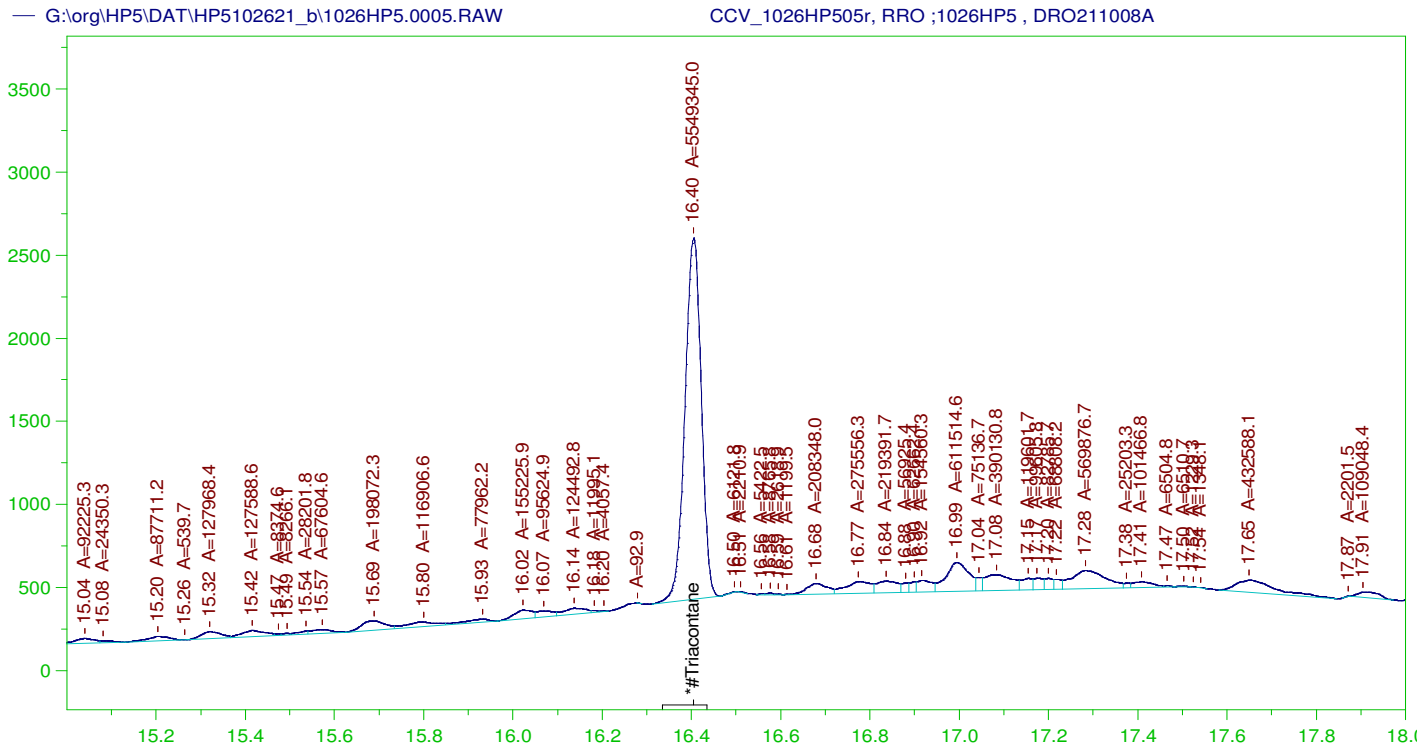
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.405 | 200. | 323.948 | 161.97 | 75-125 |

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\005_CCV_1026HP505r_DC_ORO-AB-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP505r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0005.RAW
Date & Time Acquired: 10/26/2021 10:46:21 AM
Method File: G:\Org\HP5\Methods\DS_ORO-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

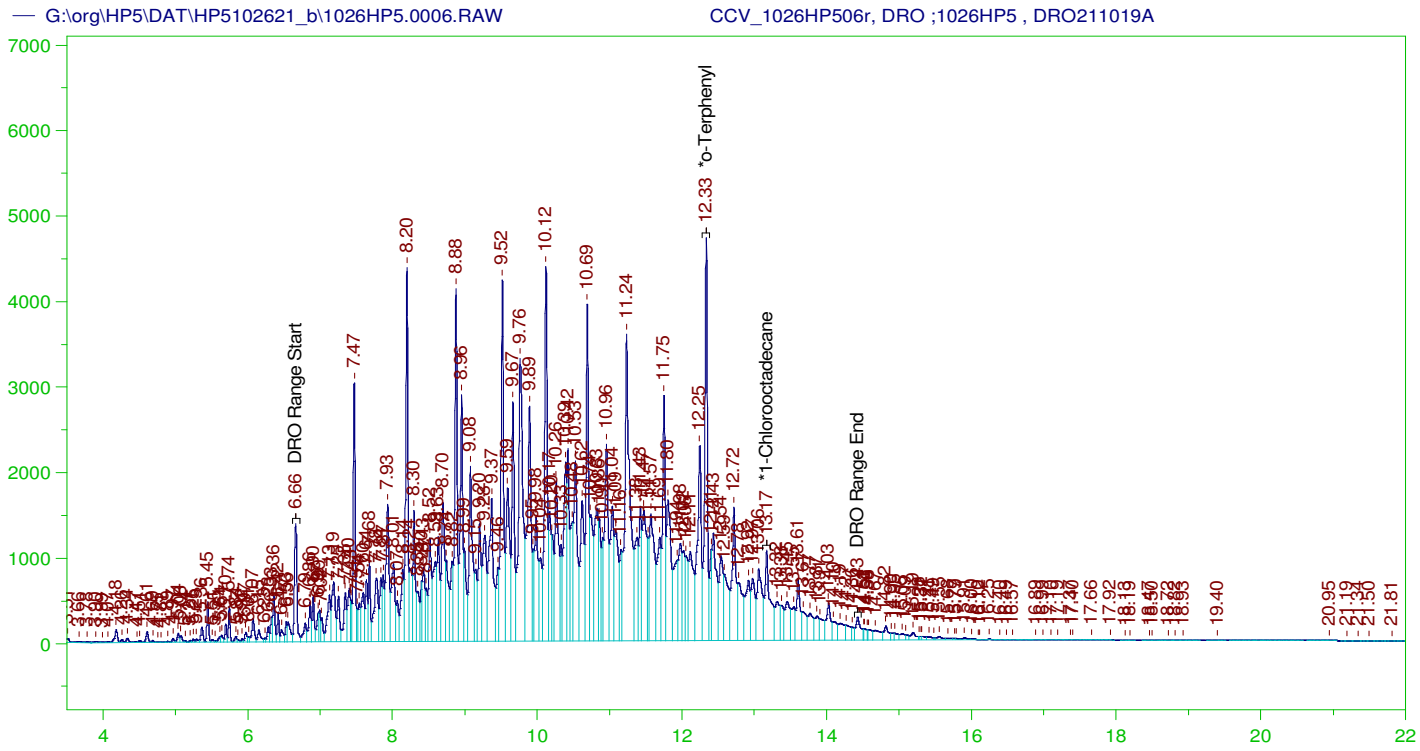
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.405 | 500. | 191.819 | 38.36 | - |

RRO Area:6459715 RRO AMOUNT: 226.3199

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0005.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.405 | 200. | 191.819 | 95.91 | 75-125 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP506r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0006.RAW
Date & Time Acquired: 10/26/2021 11:29:00 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HU-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.335 | 200. | 336.477 | 168.24 | - |
| *1-Chlorooctadecane | 13.171 | 200. | 147.934 | 73.97 | - |

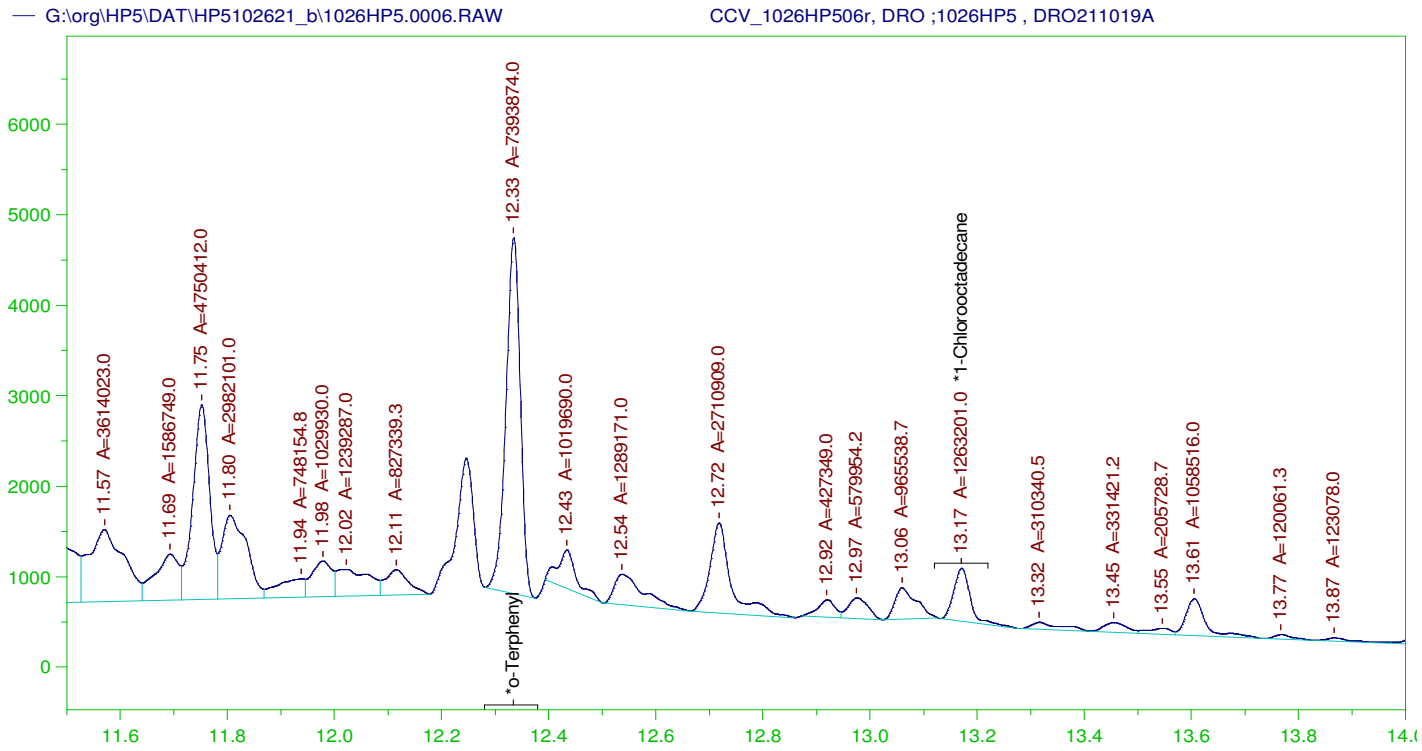
DRO Area:4.299228E+08 DRO Amount: 14594.76
TEH Area:4.455292E+08 TEH Amount: 15124.56

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15124.56 | 100.83 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.335 | 200. | 336.477 | 168.24 | 85-115 |
| *1-Chlorooctadecane | 13.171 | 200. | 147.934 | 73.97 | 85-115 |

G:\org\HP5\dat\HP5102621_b\Review\006_CCV_1026HP506r_DC_8015-C24-HU-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP506r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0006.RAW
Date & Time Acquired: 10/26/2021 11:29:00 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.335 | 200. | 210.824 | 105.41 | - |
| *1-Chlorooctadecane | 13.171 | 200. | 36.018 | 18.01 | - |

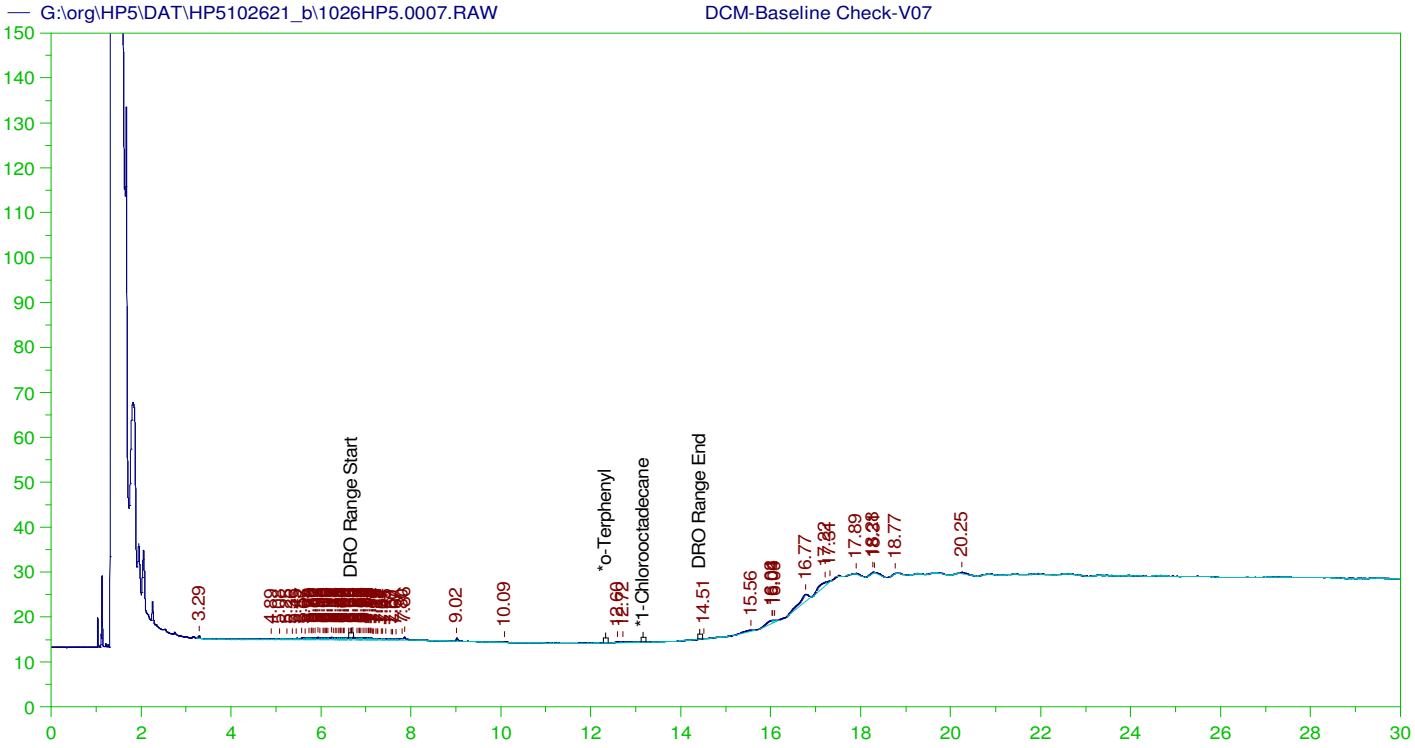
DRO Area:2.425138E+08 DRO Amount: 8232.716
TEH Area:2.524878E+08 TEH Amount: 8571.306

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0006.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8571.31 | 57.14 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.335 | 200. | 210.824 | 105.41 | 85-115 |
| *1-Chlorooctadecane | 13.171 | 200. | 36.018 | 18.01 | 85-115 |

G:\org\HP5\dat\HP5102621_b\Review\006_CCV_1026HP506r_DS_8015-area-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V07
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0007.RAW
Date & Time Acquired: 10/26/2021 12:12:09 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

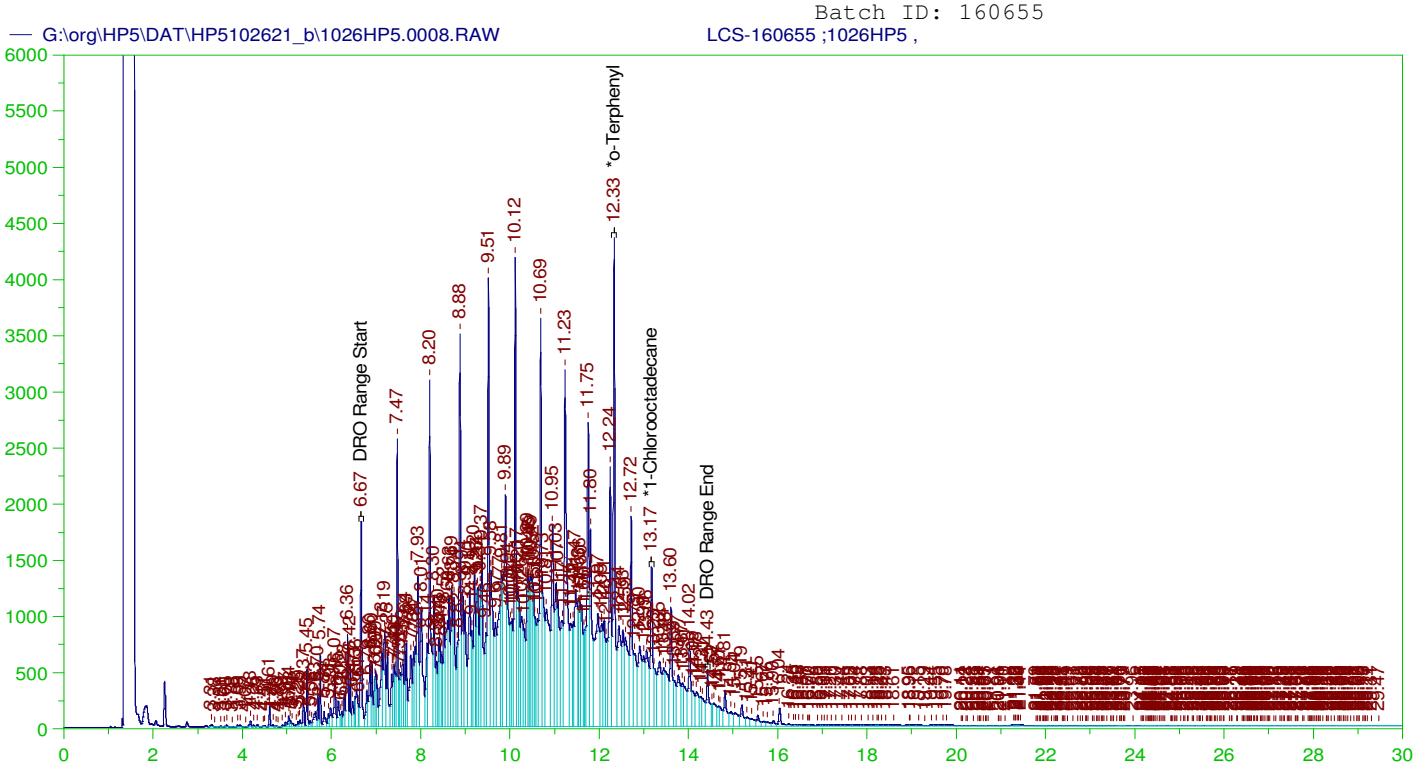
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.977 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.977 | 200. | . | . | - |

DRO Area:49035.95 DRO Amount: 1.664643
TEH Area:167790 TEH Amount: 5.696034

G:\org\HP5\dat\HP5102621_b\Review\007_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160655 ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0008.RAW
Date & Time Acquired: 10/26/2021 12:54:58 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

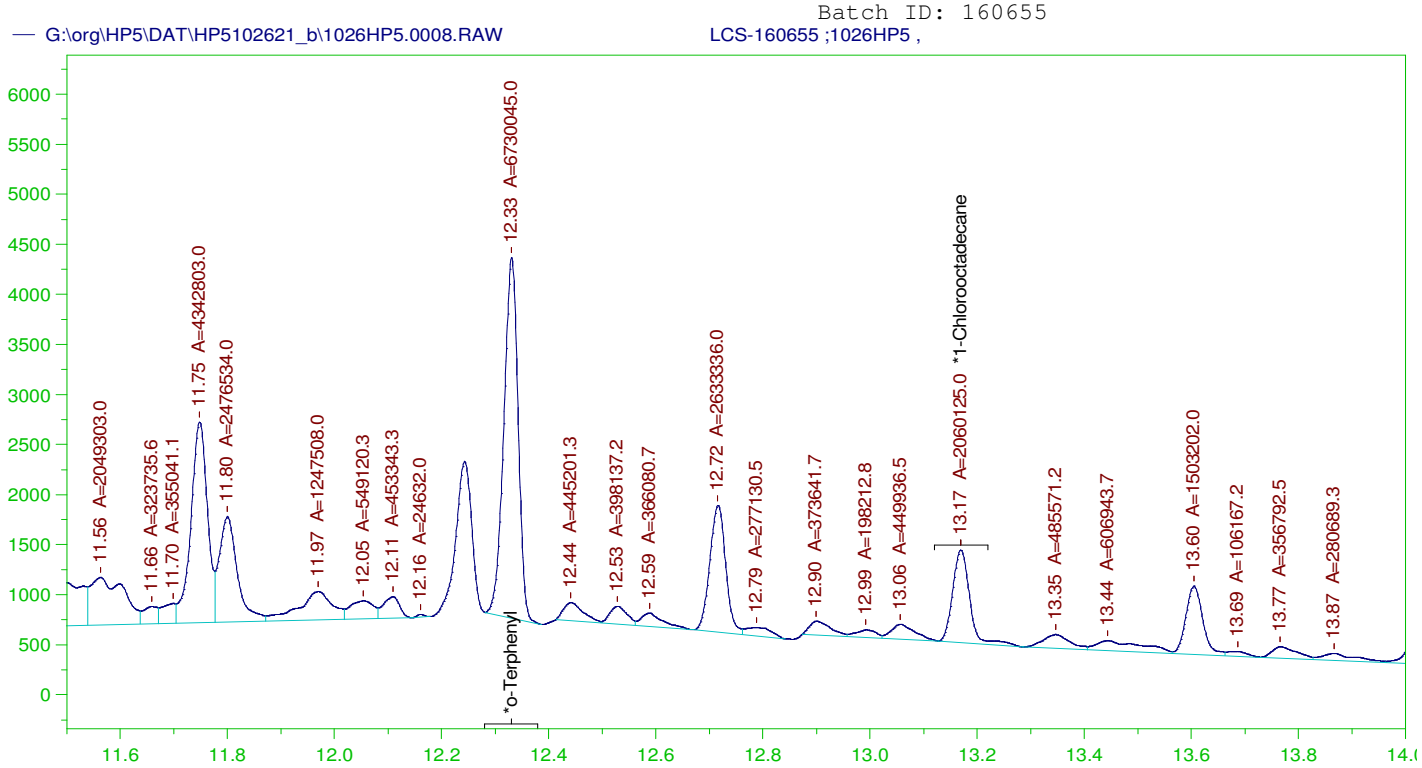
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.331 | .2 | .328 | 164.1 | - |
| *1-Chlorooctadecane | 13.169 | .2 | .137 | 68.49 | - |

DRO Area:3.859396E+08 DRO Amount: 13.10165
TEH Area:4.152533E+08 TEH Amount: 14.09677

G:\org\HP5\dat\HP5102621_b\Review\008_LCS-160655_D3_8015-C24-HU-L%.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160655 ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0008.RAW
Date & Time Acquired: 10/26/2021 12:54:58 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

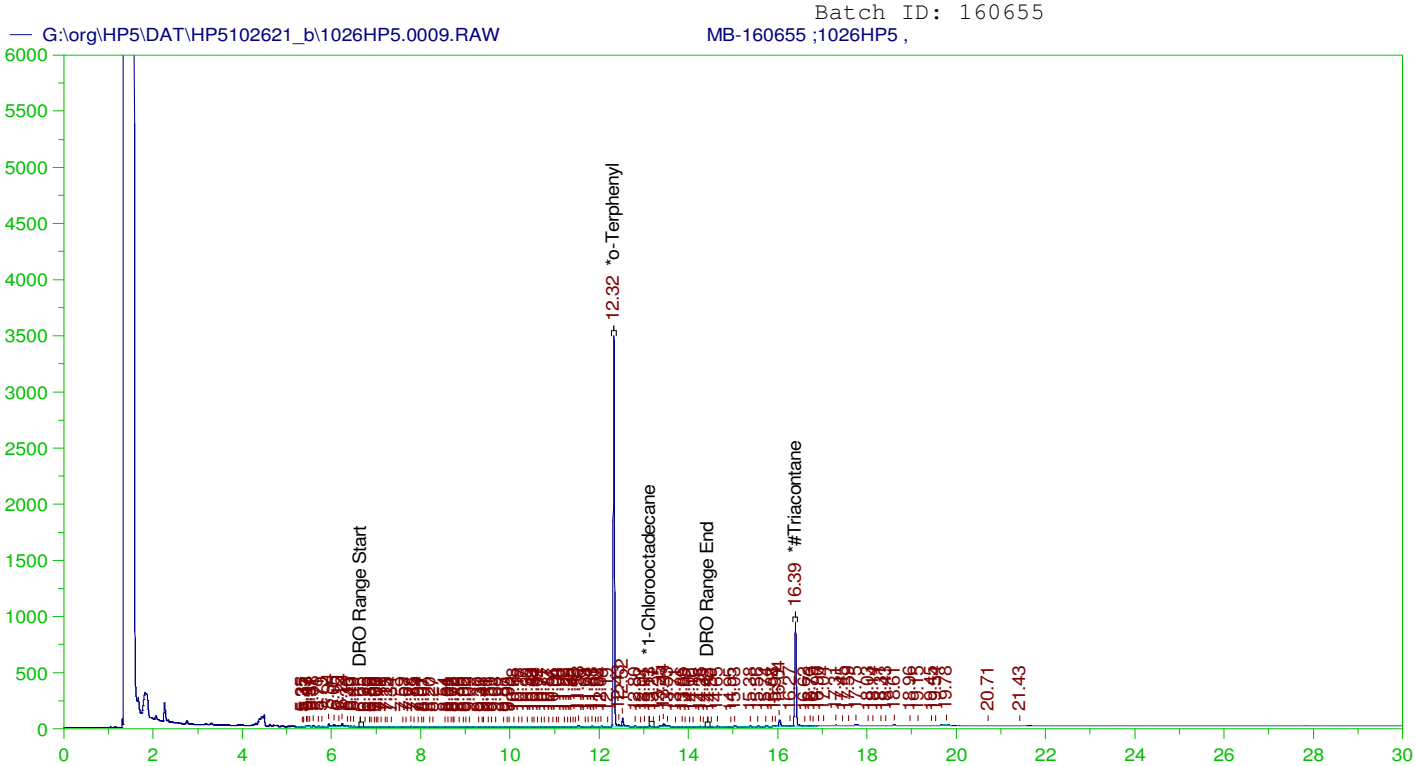
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.331 | .2 | .192 | 95.95 | - |
| *1-Chlorooctadecane | 13.169 | .2 | .059 | 29.37 | - |

DRO Area:1.900452E+08 DRO Amount: 6.451543
TEH Area:2.044323E+08 TEH Amount: 6.939945

G:\org\HP5\dat\HP5102621_b\Review\008_LCS-160655_DS_8015-area-HU-L#.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

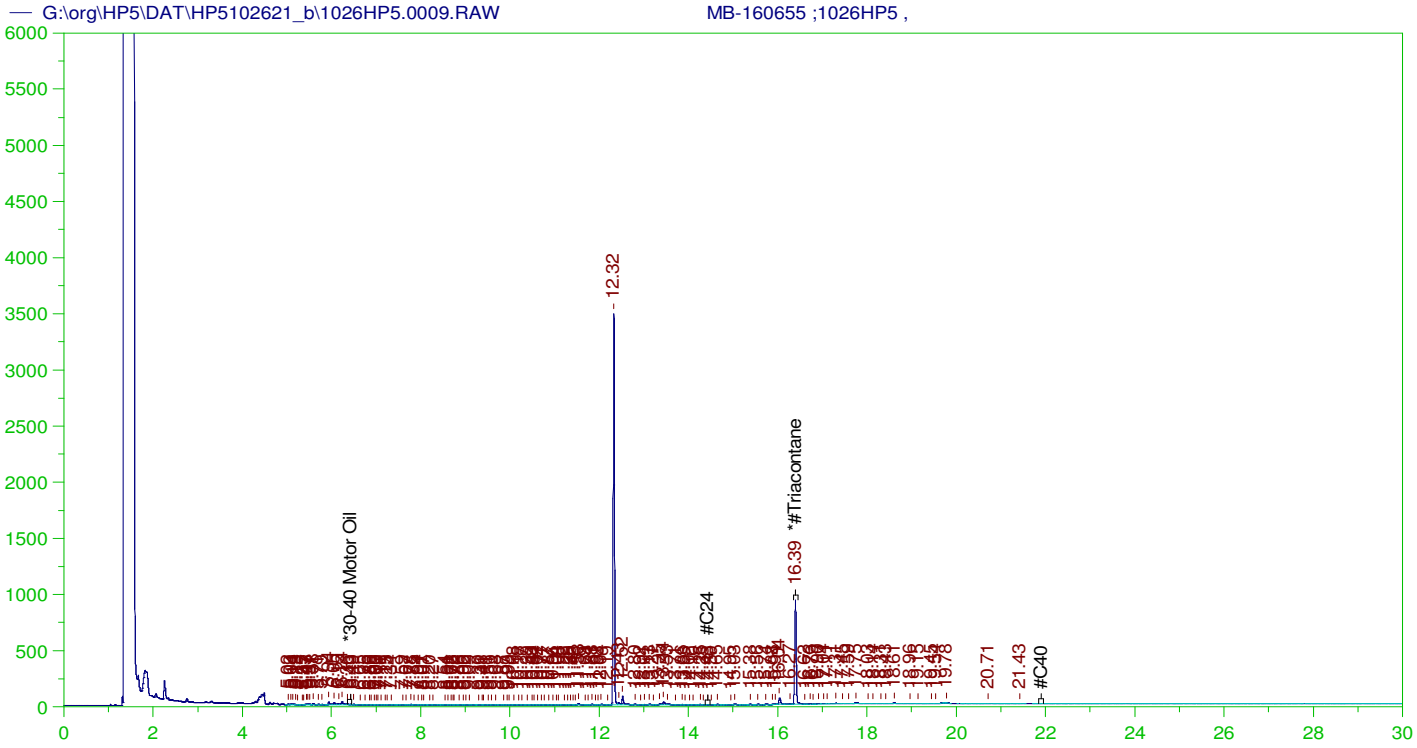
Sample Name: MB-160655 ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0009.RAW
Date & Time Acquired: 10/26/2021 1:37:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.325 | .2 | .187 | 93.26 | - |
| *1-Chlorooctadecane | 13.127 | .2 | .001 | .28 | - |
| *#Triacontane | 16.394 | .2 | .083 | 41.38 | - |

DRO Area:813280.3 DRO Amount: 2.760876E-02
TEH Area:1517211 TEH Amount: 5.150537E-02

G:\org\HP5\dat\HP5102621_b\Review\009_MB-160655_DR_8015-C24-Tri-HU-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160655 ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0009.RAW
Date & Time Acquired: 10/26/2021 1:37:38 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

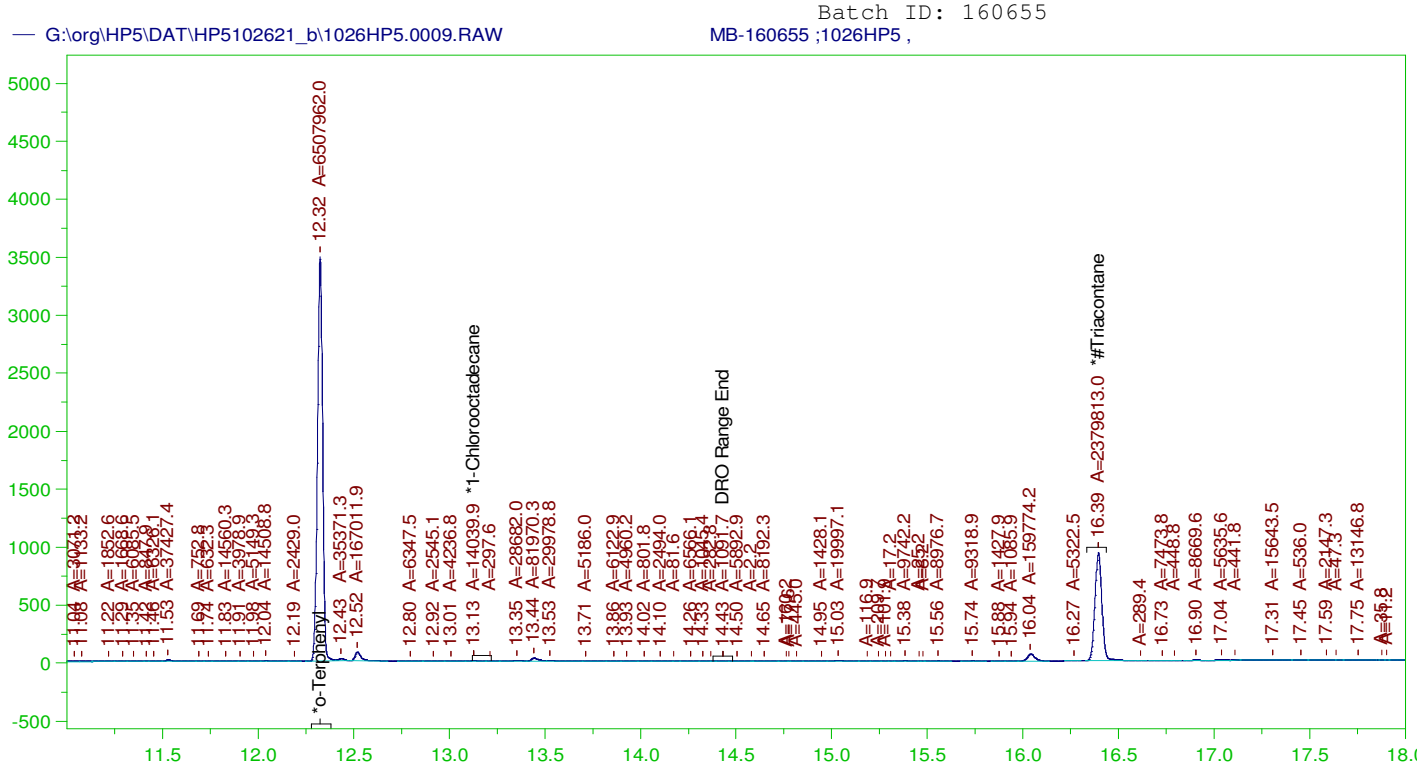
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.394 | .5 | .083 | 16.55 | - |

RRO Area:348204.6 RRO AMOUNT: 1.219955E-02

G:\org\HP5\dat\HP5102621_b\Review\009_MB-160655_DR_OROS-AB-L%.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160655 ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0009.RAW
Date & Time Acquired: 10/26/2021 1:37:38 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

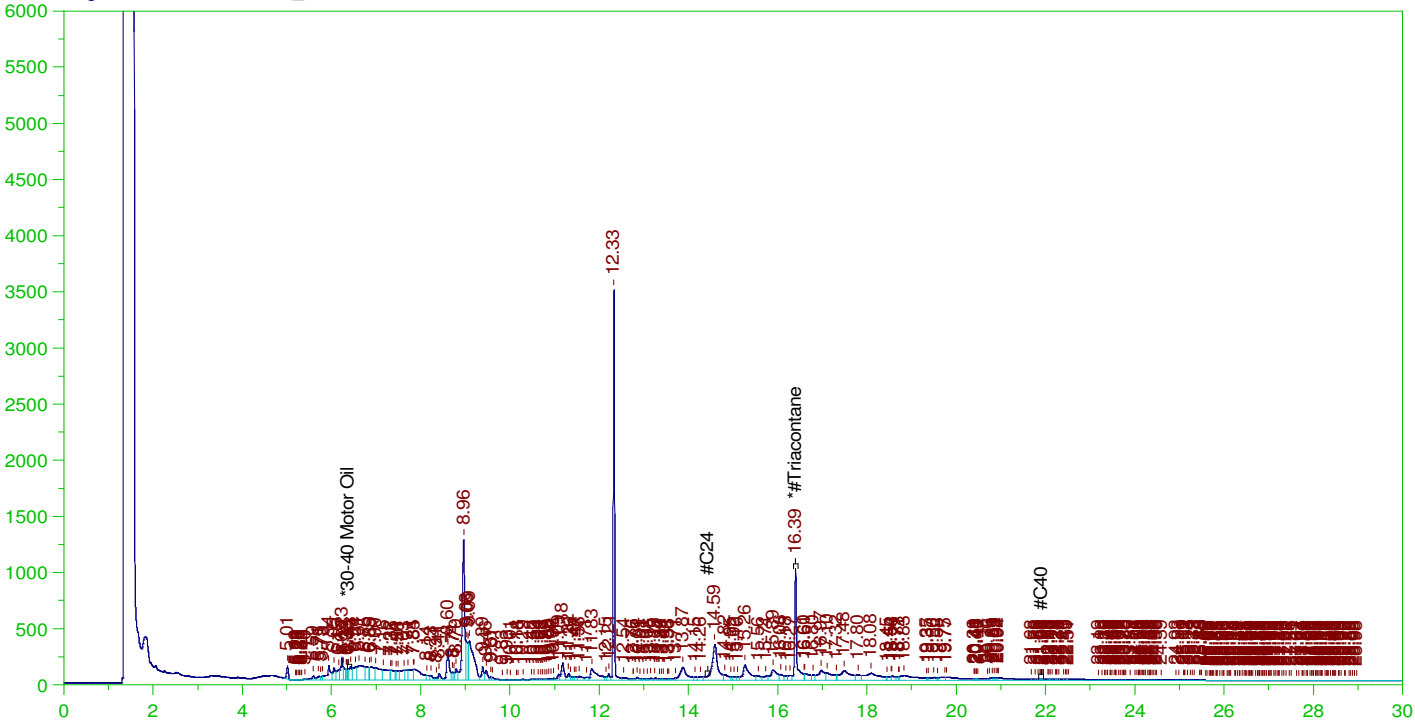
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.325 | .2 | .186 | 92.78 | - |
| *1-Chlorooctadecane | 13.127 | .2 | . | .2 | - |
| *#Triacontane | 16.394 | .2 | .082 | 41.13 | - |

DRO Area:644271.7 DRO Amount: 2.187135E-02
TEH Area:2549948 TEH Amount: 8.656412E-02

**ERH1692 (RHMW04)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0010.RAW B21101904-001B ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101904-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0010.RAW
Date & Time Acquired: 10/26/2021 2:20:31 PM
Method File: G:\Org\HP5\Methods\D3_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.395 | .474 | .11 | 23.17 | - |

RRO Area:1.726827E+07 RRO AMOUNT: 0.5734634

G:\org\HP5\dat\HP5102621_b\Review\010_B21101904-001B_D3_OROS-AB-L%.xls

**ERH1692 (RHMW04)** Batch ID: 160655

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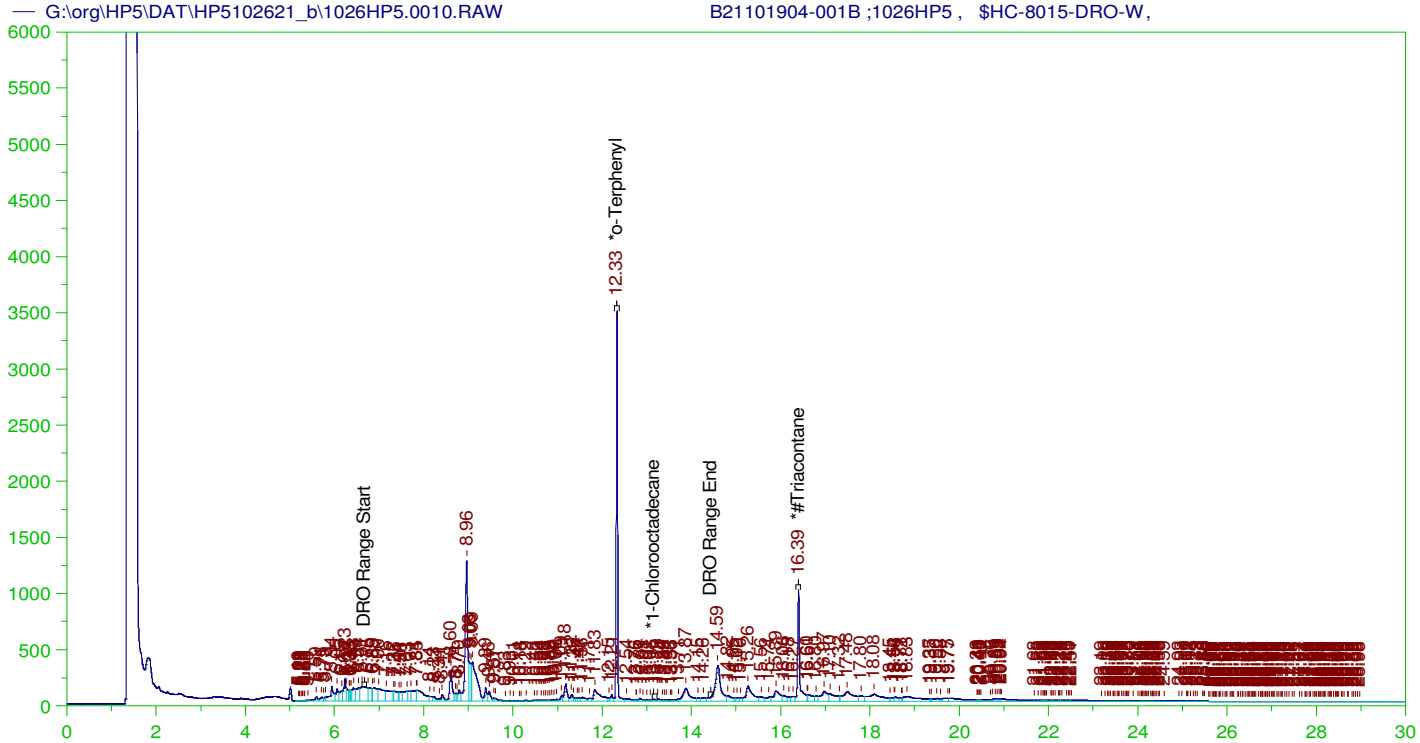


**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101904-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0010.RAW
Date & Time Acquired: 10/26/2021 2:20:31 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-102610-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.327 | .19 | .181 | 95.65 | - |
| *1-Chlorooctadecane | 13.152 | .19 | .003 | 1.58 | - |
| *#Triacontane | 16.395 | .19 | .11 | 57.91 | - |

DRO Area:2.608766E+07 DRO Amount: 0.8394392
TEH Area:5.117171E+07 TEH Amount: 1.646585

G:\org\HP5\dat\HP5102621_b\Review\010_B21101904-001B_DR_8015-C24T-102610-HU-L%.xls

**ERH1692 (RHMW04)** Batch ID: 160655

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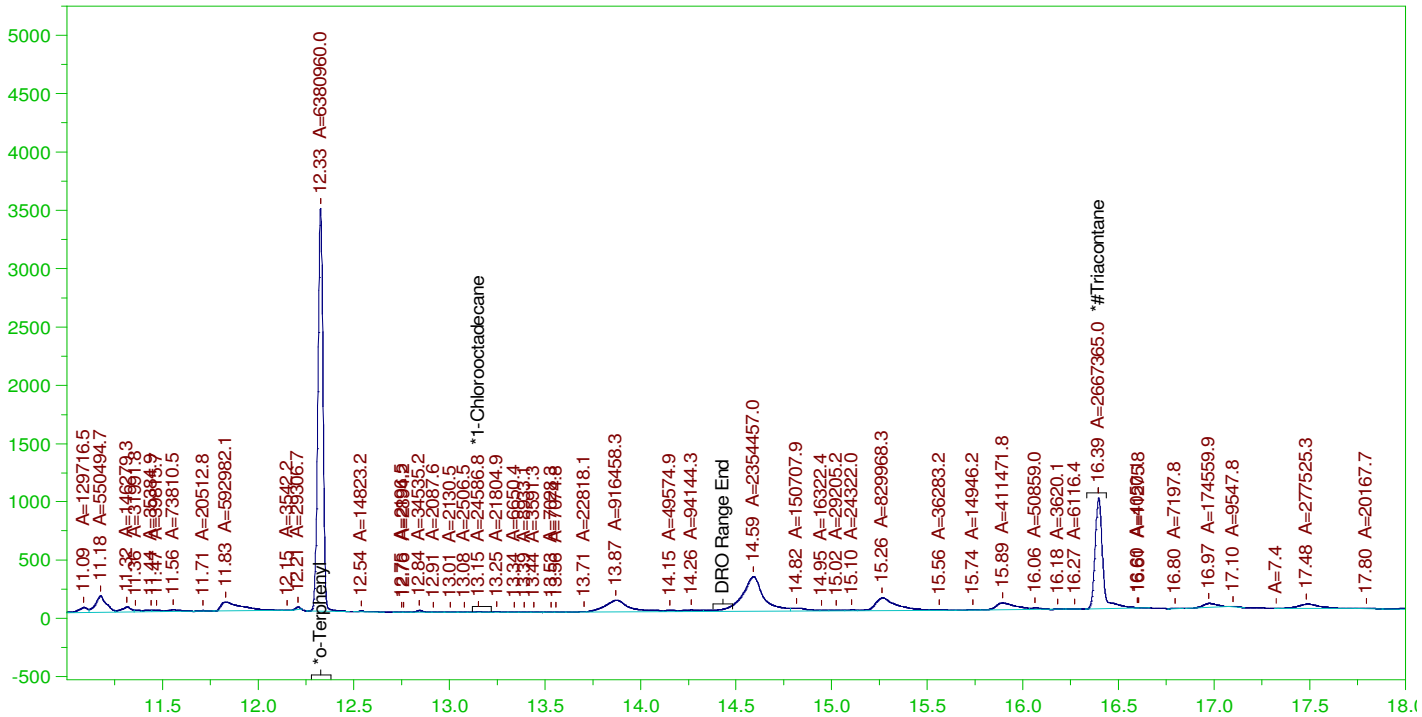



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

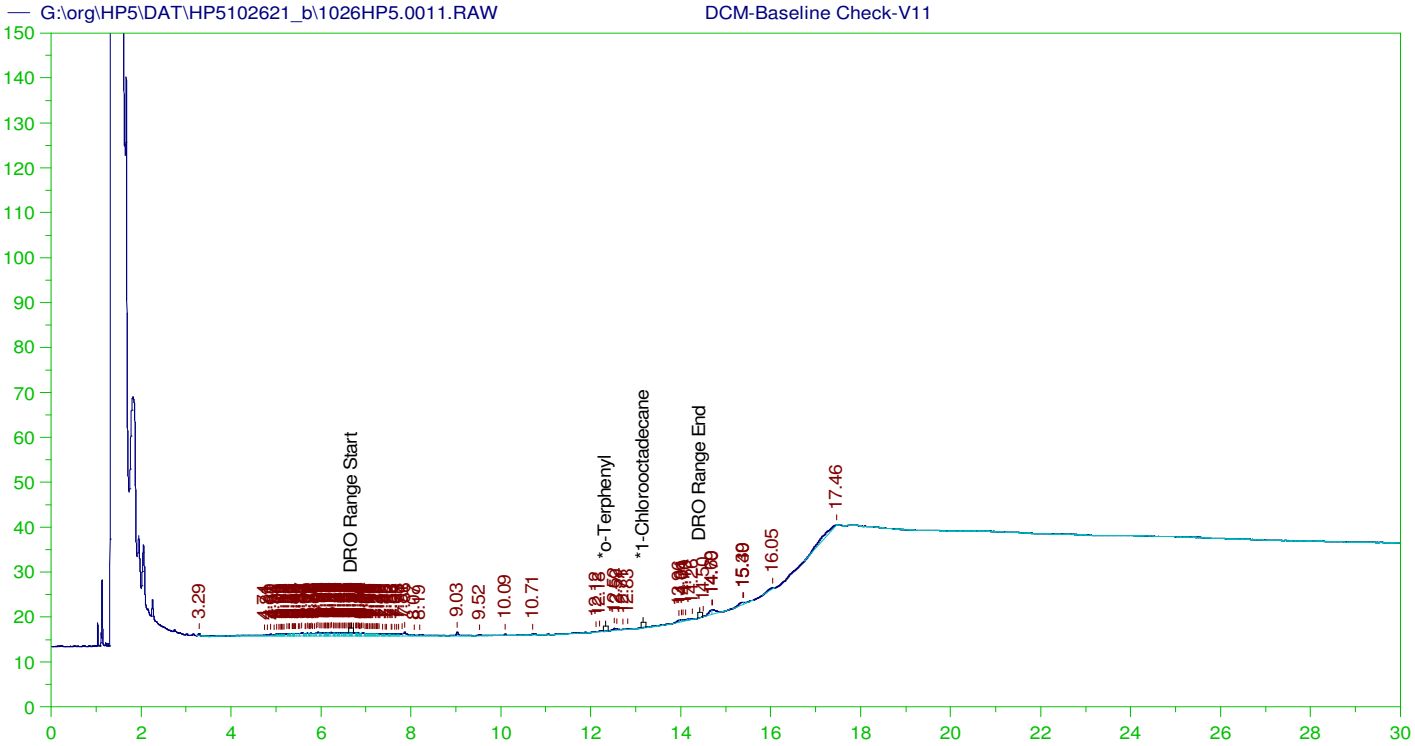
Sample Name: B21101904-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0010.RAW
Date & Time Acquired: 10/26/2021 2:20:31 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.327 | .19 | .172 | 90.97 | - |
| *1-Chlorooctadecane | 13.152 | .19 | .001 | .35 | - |
| *#Triacontane | 16.395 | .19 | .087 | 46.1 | - |

DRO Area:2.267714E+07 DRO Amount: 0.7296968
TEH Area:3.510181E+07 TEH Amount: 1.129493

G:\org\HP5\dat\HP5102621_b\Review\010_B21101904-001B_DS_8015-C24T-HU-L#.xls



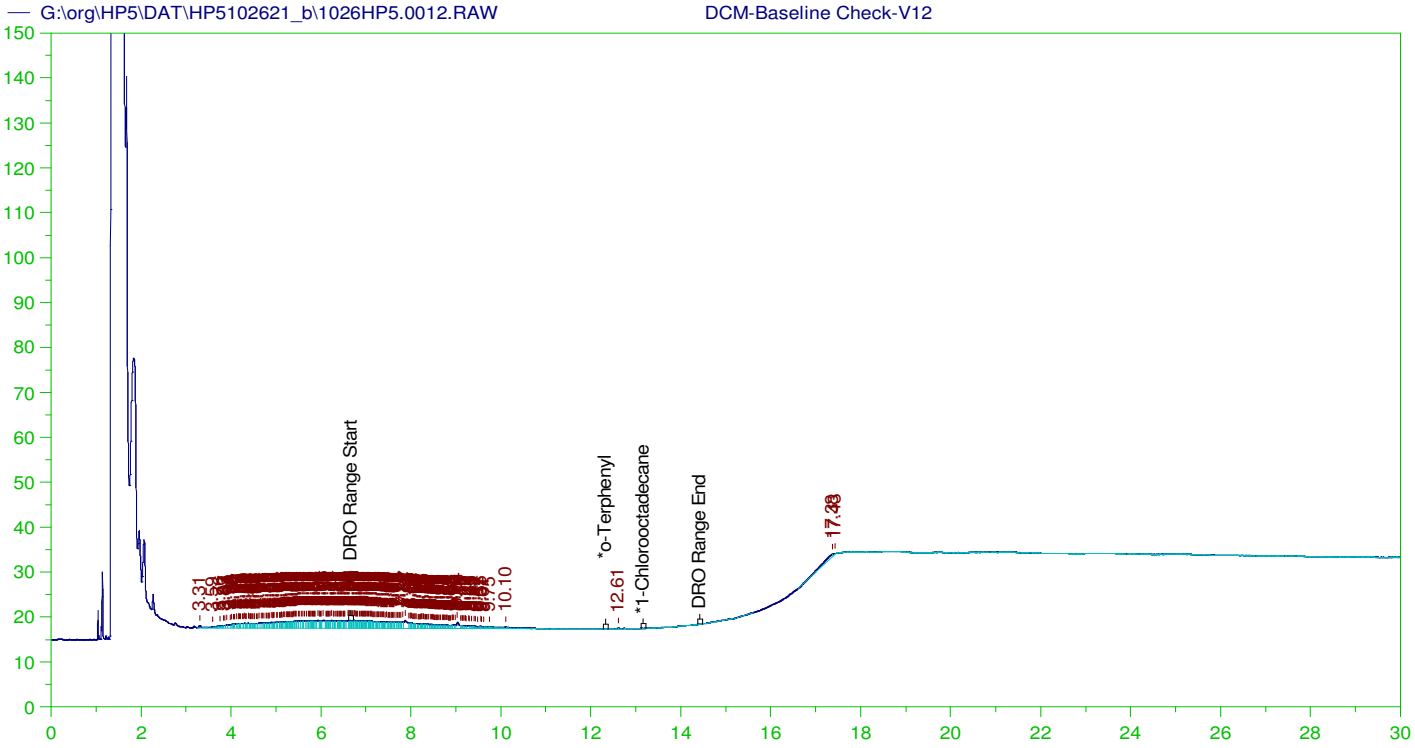

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V11
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0011.RAW
Date & Time Acquired: 10/26/2021 3:04:09 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.972 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.972 | 200. | . | . | - |

DRO Area:78861.95 DRO Amount: 2.677159
TEH Area:208137 TEH Amount: 7.06571




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V12
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0012.RAW
Date & Time Acquired: 10/26/2021 3:46:54 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

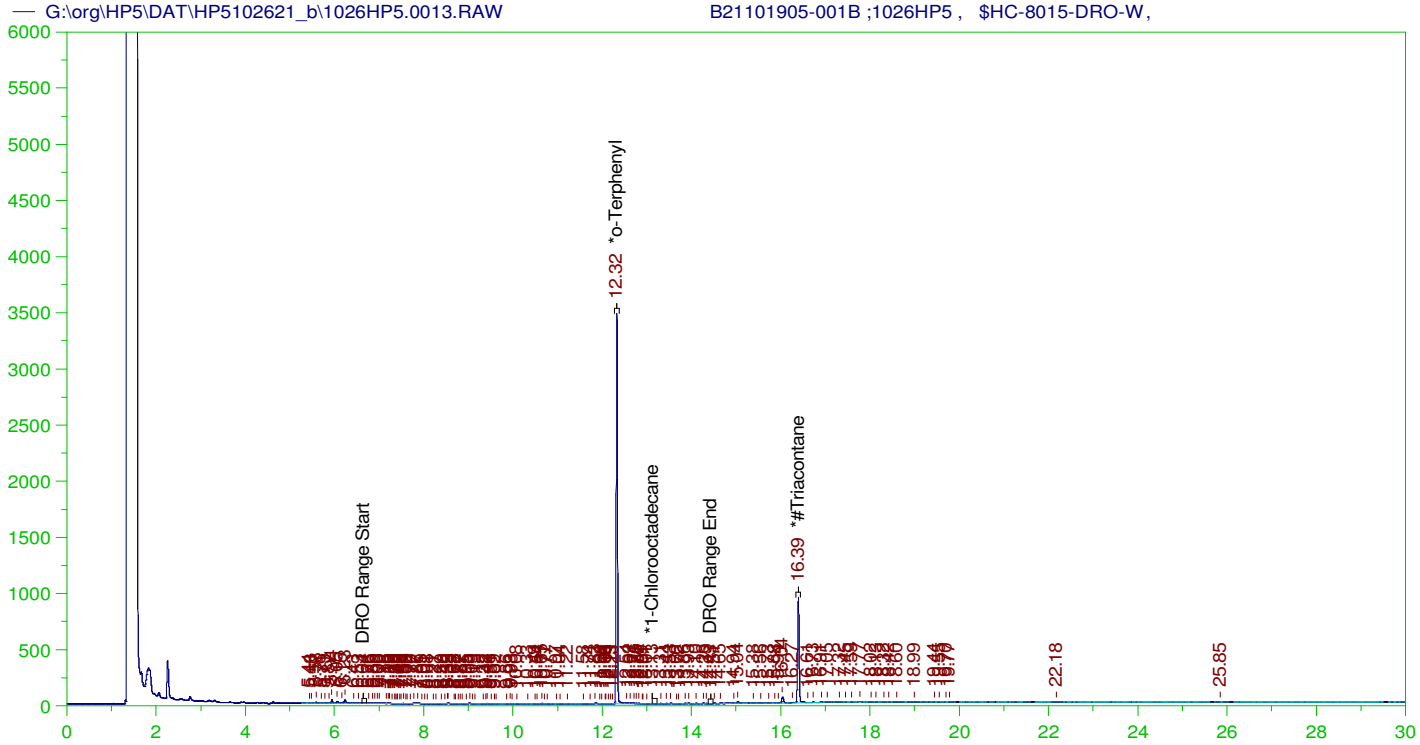
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.989 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.989 | 200. | . | . | - |

DRO Area:208425.3 DRO Amount: 7.075499
TEH Area:447435.7 TEH Amount: 15.18928

G:\org\HP5\dat\HP5102621_b\Review\012_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

**ERH1716 (HDMW2253-03)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0013.RAW B21101905-001B ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101905-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0013.RAW
Date & Time Acquired: 10/26/2021 4:29:39 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

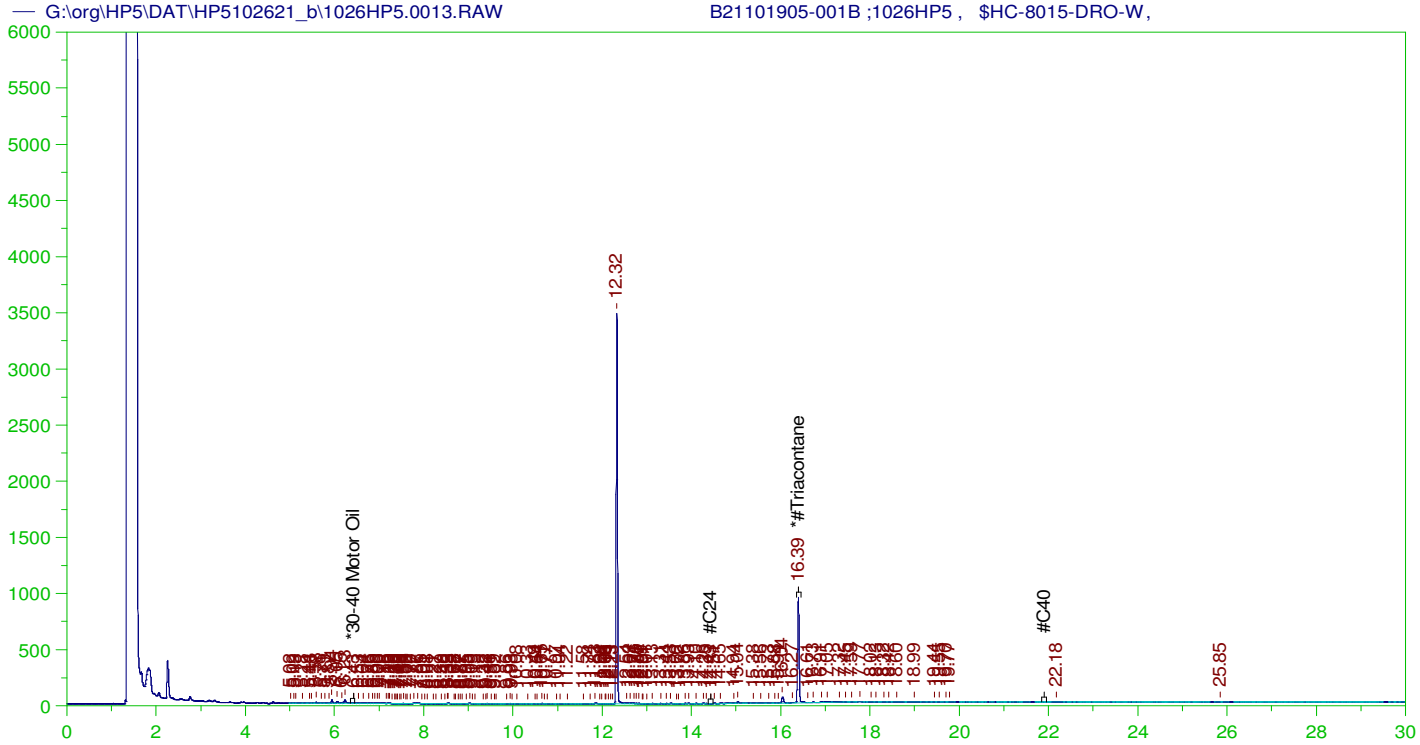
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.324 | .19 | .177 | 93.54 | - |
| *1-Chlorooctadecane | 13.126 | .19 | . | .08 | - |
| *#Triacontane | 16.391 | .19 | .079 | 41.86 | - |

DRO Area:348674.8 DRO Amount: 1.121953E-02
TEH Area:1089911 TEH Amount: 3.507075E-02

G:\org\HP5\dat\HP5102621_b\Review\013_B21101905-001B_DR_8015-C24-Tri-HU-L%.xls

**ERH1716 (HDMW2253-03)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0013.RAW B21101905-001B ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101905-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0013.RAW
Date & Time Acquired: 10/26/2021 4:29:39 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

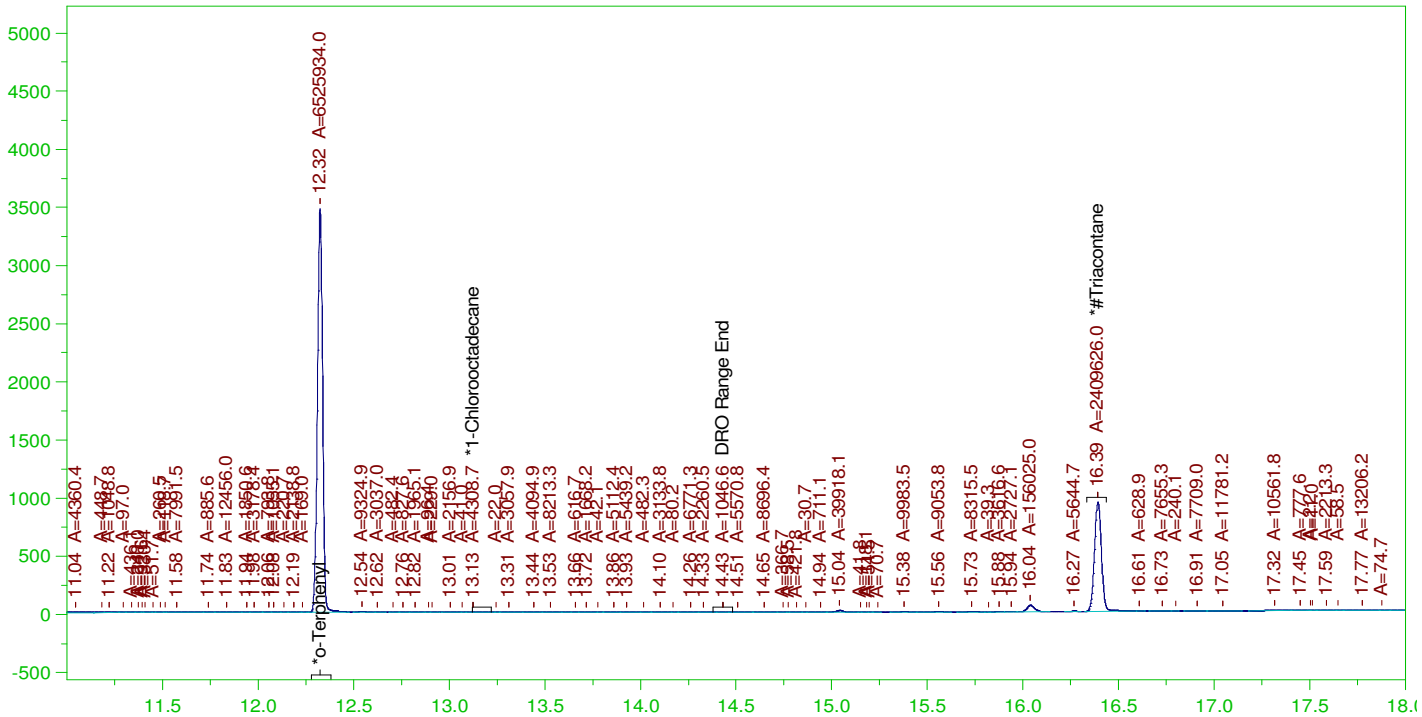
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.391 | .474 | .079 | 16.75 | - |

RRO Area:380604.8 RRO AMOUNT: 1.263954E-02

G:\org\HP5\dat\HP5102621_b\Review\013_B21101905-001B_DR_OROS-AB-L%.xls

**ERH1716 (HDMW2253-03)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0013.RAW B21101905-001B ;1026HP5 , $HC-8015-DRO-W,



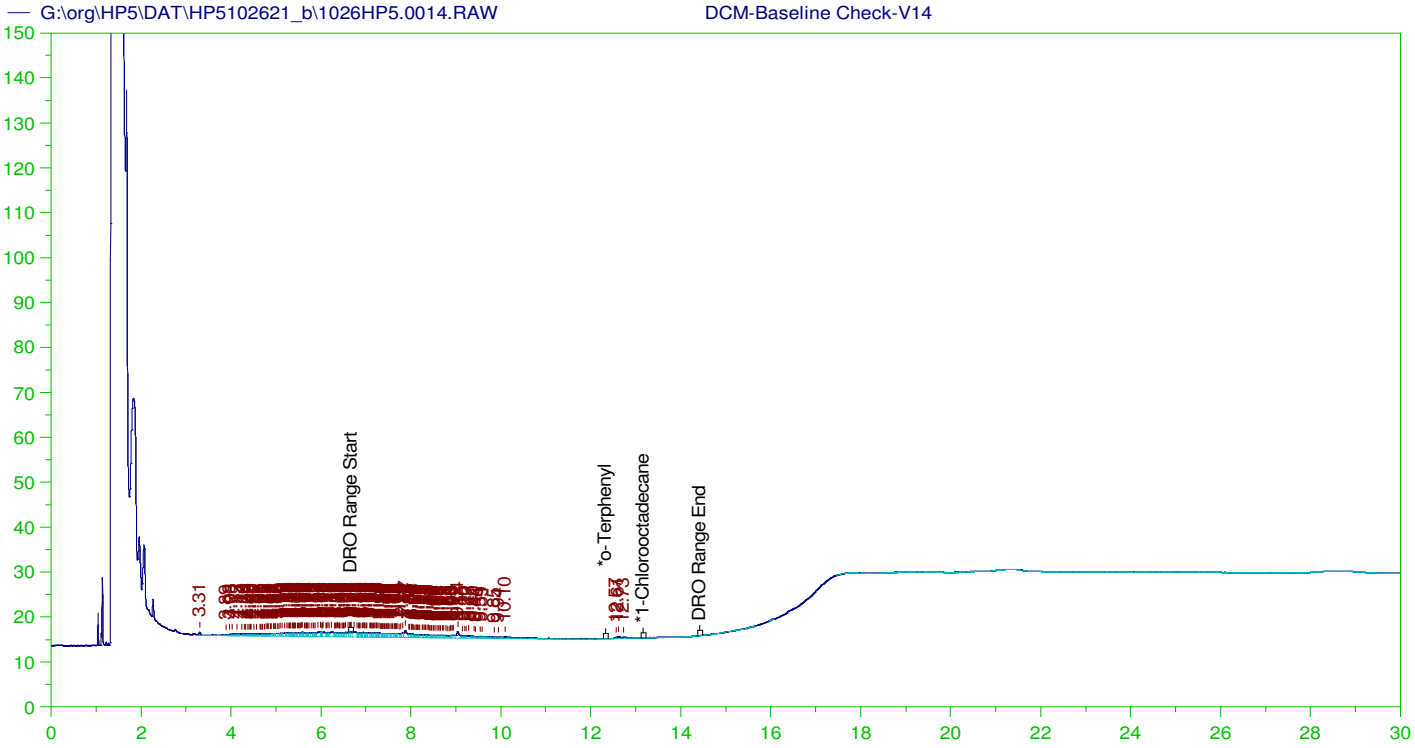

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101905-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0013.RAW
Date & Time Acquired: 10/26/2021 4:29:39 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.324 | .19 | .176 | 93.04 | - |
| *1-Chlorooctadecane | 13.126 | .19 | . | .06 | - |
| *#Triacontane | 16.391 | .19 | .079 | 41.65 | - |

DRO Area:336333 DRO Amount: 0.0108224
TEH Area:1456459 TEH Amount: 0.0468654




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

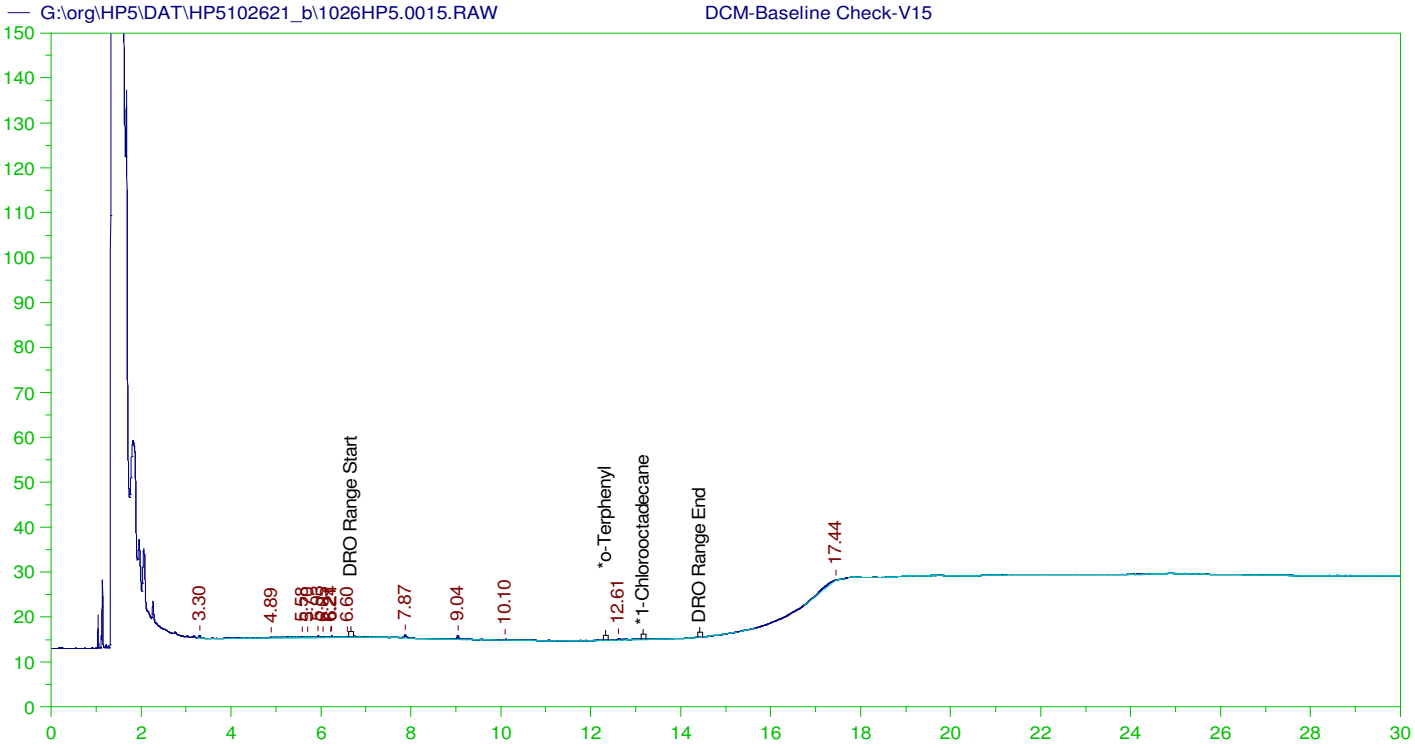
Sample Name: DCM-Baseline Check-V14
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0014.RAW
Date & Time Acquired: 10/26/2021 5:13:11 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.991 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.991 | 200. | . | . | - |

DRO Area:152900.3 DRO Amount: 5.190569
TEH Area:271419.7 TEH Amount: 9.213995

G:\org\HP5\dat\HP5102621_b\Review\014_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V15
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0015.RAW
Date & Time Acquired: 10/26/2021 5:56:52 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

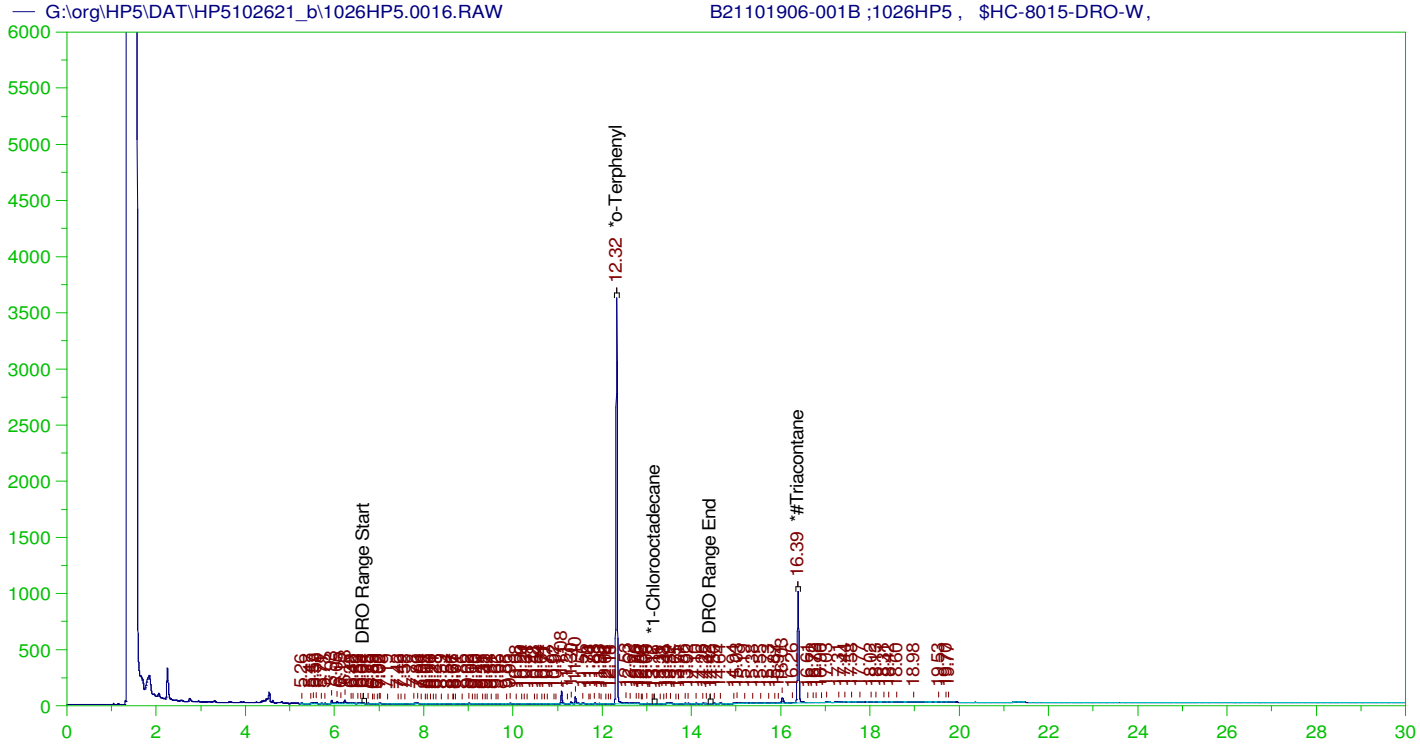
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.996 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.996 | 200. | . | . | - |

DRO Area:28858.32 DRO Amount: 0.9796652
TEH Area:74893.68 TEH Amount: 2.542446

G:\org\HP5\dat\HP5102621_b\Review\015_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

**ERH1714 (OWDFMW01)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0016.RAW B21101906-001B ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101906-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0016.RAW
Date & Time Acquired: 10/26/2021 6:40:29 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1035 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

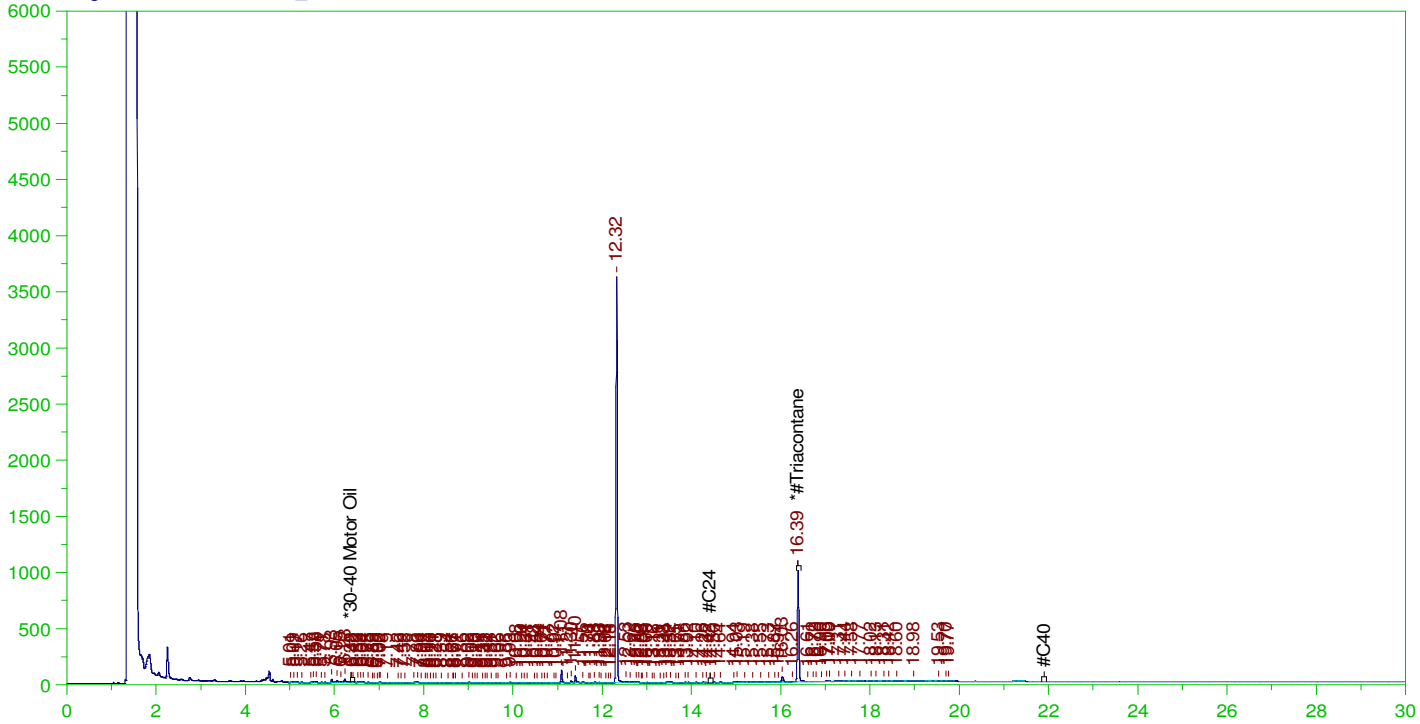
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.32 | .193 | .185 | 95.77 | - |
| *1-Chlorooctadecane | 13.161 | .193 | . | .04 | - |
| *#Triacontane | 16.387 | .193 | .084 | 43.7 | - |

DRO Area:831768.1 DRO Amount: 2.728152E-02
TEH Area:1545813 TEH Amount: 5.070179E-02

G:\org\HP5\dat\HP5102621_b\Review\016_B21101906-001B_DR_8015-C24-Tri-HU-L%.xls

**ERH1714 (OWDFMW01)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0016.RAW B21101906-001B ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101906-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0016.RAW
Date & Time Acquired: 10/26/2021 6:40:29 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1035 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

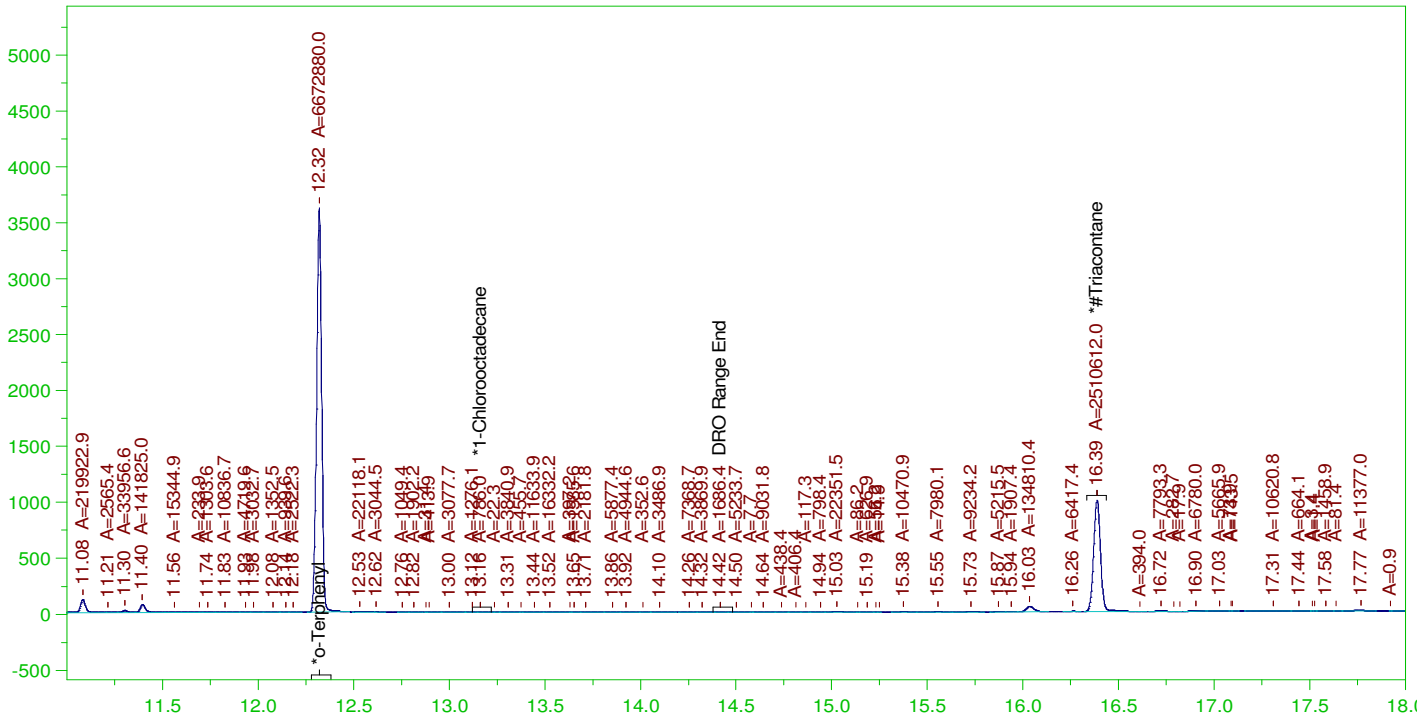
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.387 | .483 | .084 | 17.48 | - |

RRO Area:348437.3 RRO AMOUNT: 1.179488E-02

G:\org\HP5\dat\HP5102621_b\Review\016_B21101906-001B_DR_OROS-AB-L%.xls

**ERH1714 (OWDFMW01)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0016.RAW B21101906-001B ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

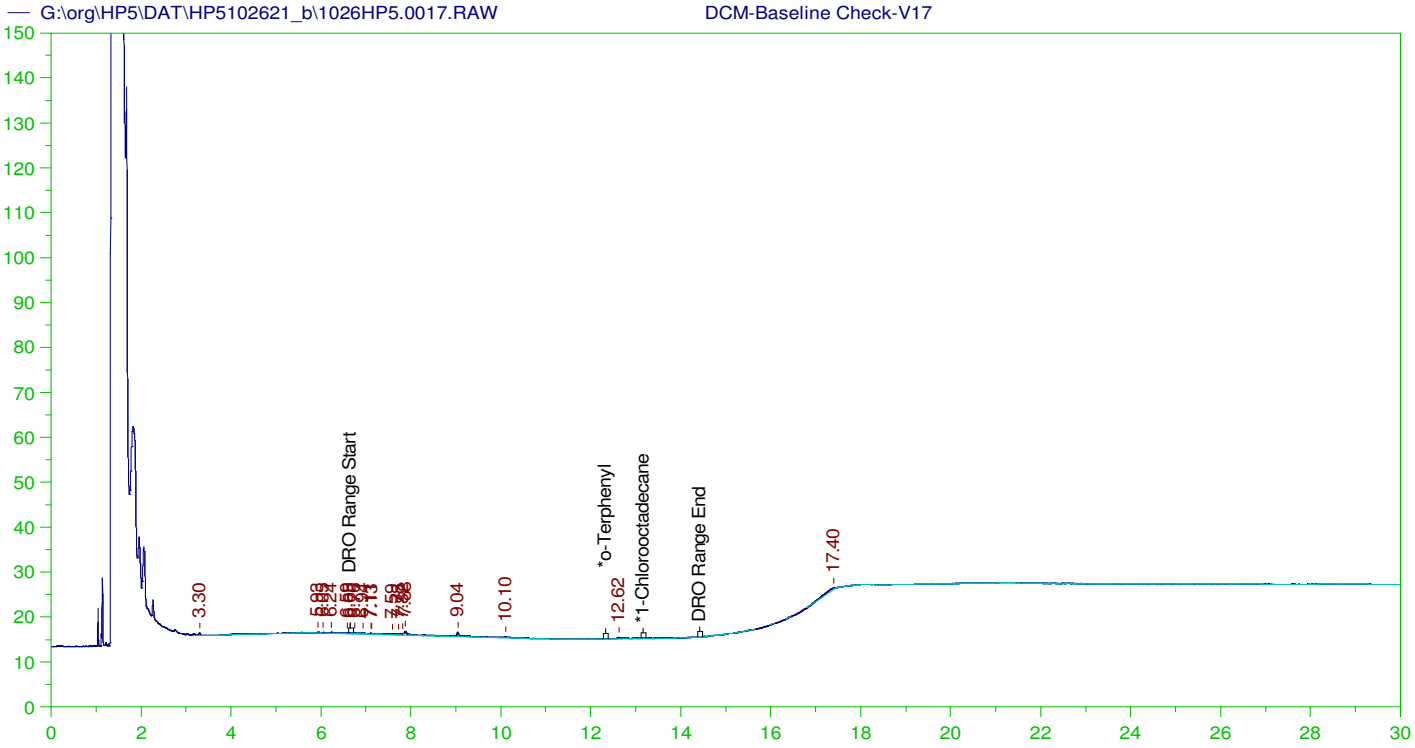
Sample Name: B21101906-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0016.RAW
Date & Time Acquired: 10/26/2021 6:40:29 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1035 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.32 | .193 | .184 | 95.13 | - |
| *1-Chlorooctadecane | 13.161 | .193 | . | .01 | - |
| *#Triacontane | 16.387 | .193 | .084 | 43.39 | - |

DRO Area:730301 DRO Amount: 2.395345E-02
TEH Area:2317206 TEH Amount: 7.600301E-02

G:\org\HP5\dat\HP5102621_b\Review\016_B21101906-001B_DS_8015-C24T-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

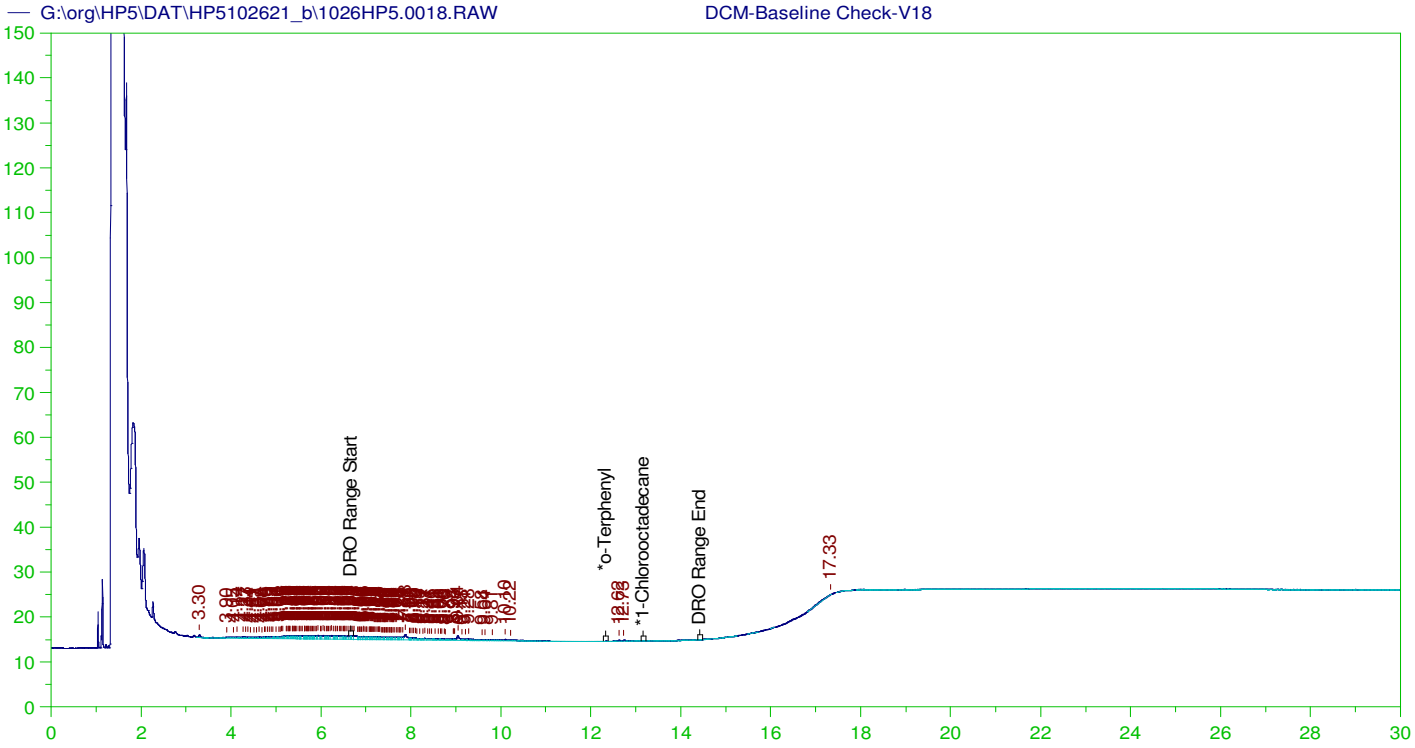
Sample Name: DCM-Baseline Check-V17
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0017.RAW
Date & Time Acquired: 10/26/2021 7:24:02 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.988 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.988 | 200. | . | . | - |

DRO Area:50735.59 DRO Amount: 1.722342
TEH Area:87229.16 TEH Amount: 2.961204

G:\org\HP5\dat\HP5102621_b\Review\017_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V18
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0018.RAW
Date & Time Acquired: 10/26/2021 8:07:09 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

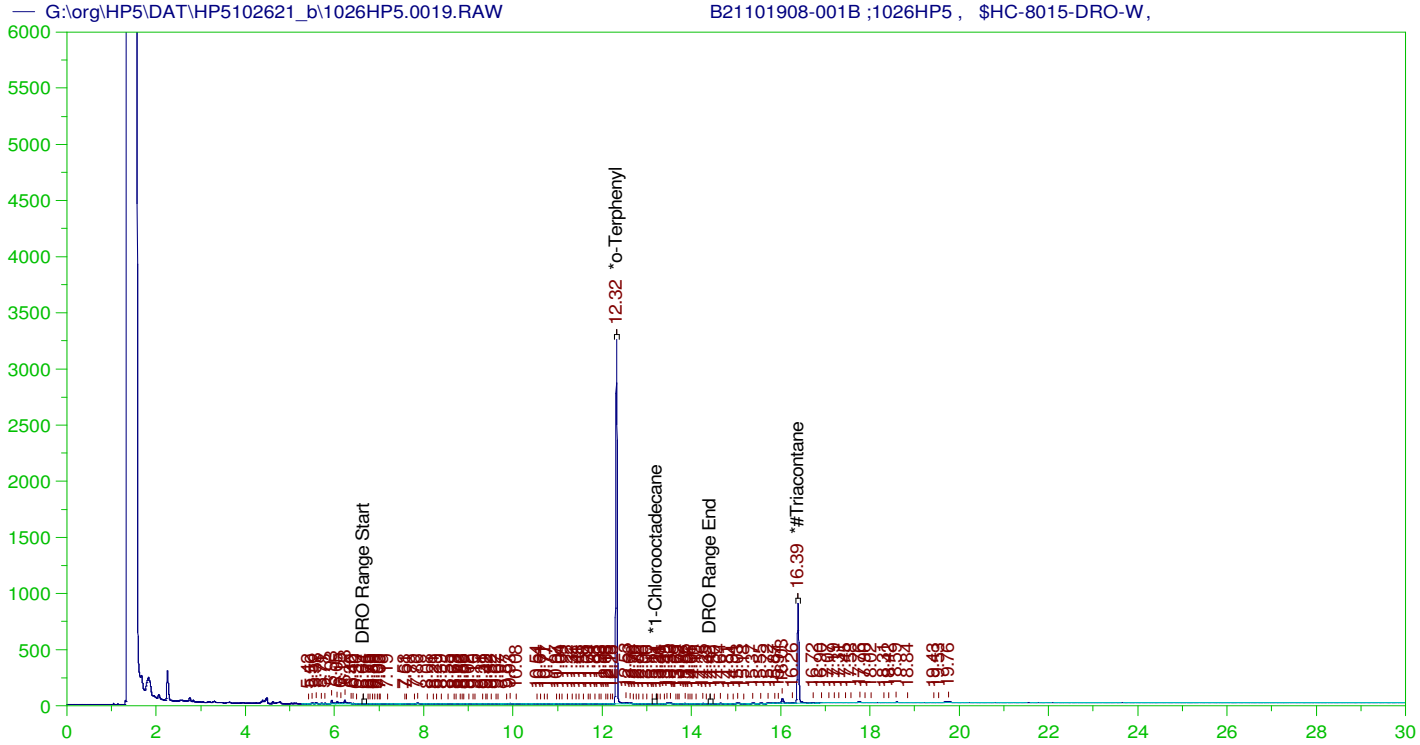
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.969 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.969 | 200. | . | . | - |

DRO Area:113325.6 DRO Amount: 3.847112
TEH Area:207969.4 TEH Amount: 7.060021

G:\org\HP5\dat\HP5102621_b\Review\018_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

**ERH1702 (RHMW09)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0019.RAW B21101908-001B ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101908-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0019.RAW
Date & Time Acquired: 10/26/2021 8:50:30 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

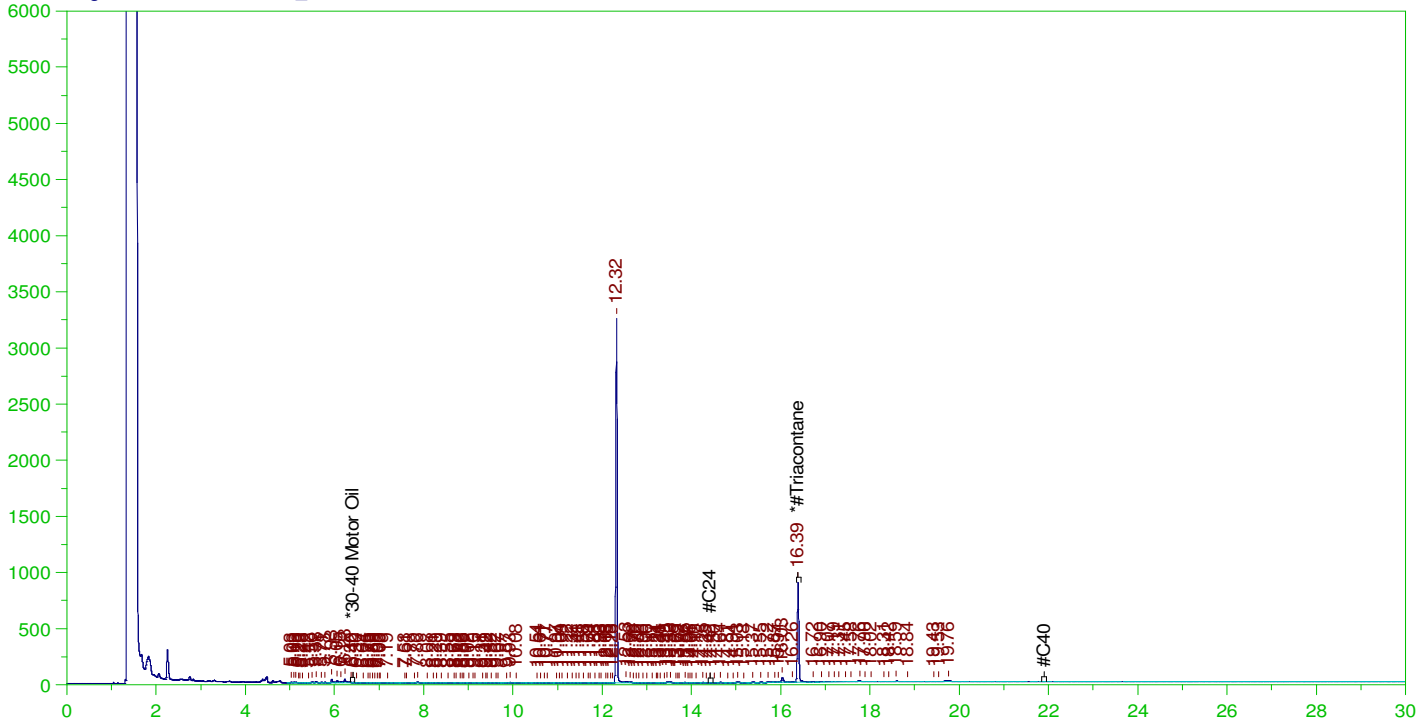
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.317 | .194 | .17 | 87.57 | - |
| *1-Chlorooctadecane | 13.211 | .194 | . | .02 | - |
| *#Triacontane | 16.385 | .194 | .077 | 39.81 | - |

DRO Area:379541.6 DRO Amount: 1.250918E-02
TEH Area:1047728 TEH Amount: 3.453168E-02

G:\org\HP5\dat\HP5102621_b\Review\019_B21101908-001B_DR_8015-C24-Tri-HU-L%.xls

**ERH1702 (RHMW09)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0019.RAW B21101908-001B ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101908-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0019.RAW
Date & Time Acquired: 10/26/2021 8:50:30 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.385 | .485 | .077 | 15.93 | - |

RRO Area:319424.2 RRO AMOUNT: 1.086526E-02

G:\org\HP5\dat\HP5102621_b\Review\019_B21101908-001B_DR_OROS-AB-L%.xls

**ERH1702 (RHMW09)** Batch ID: 160655

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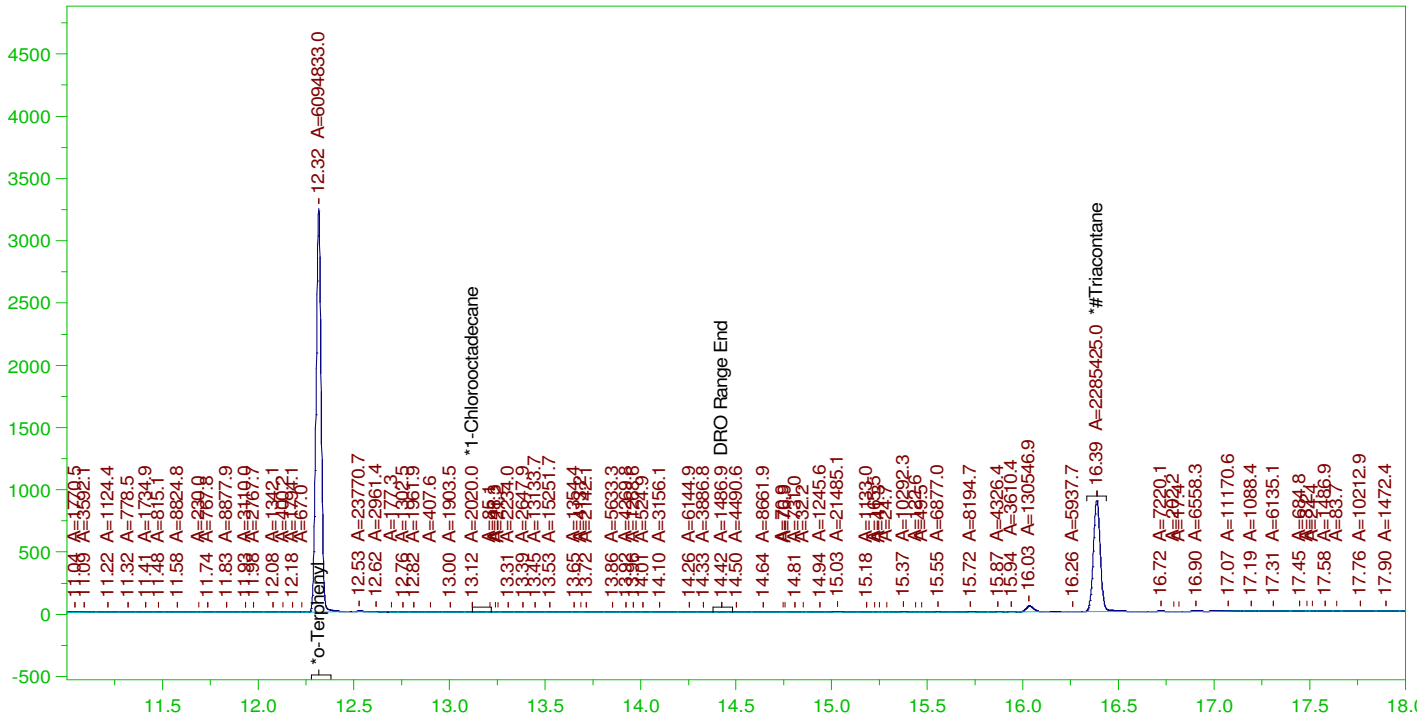


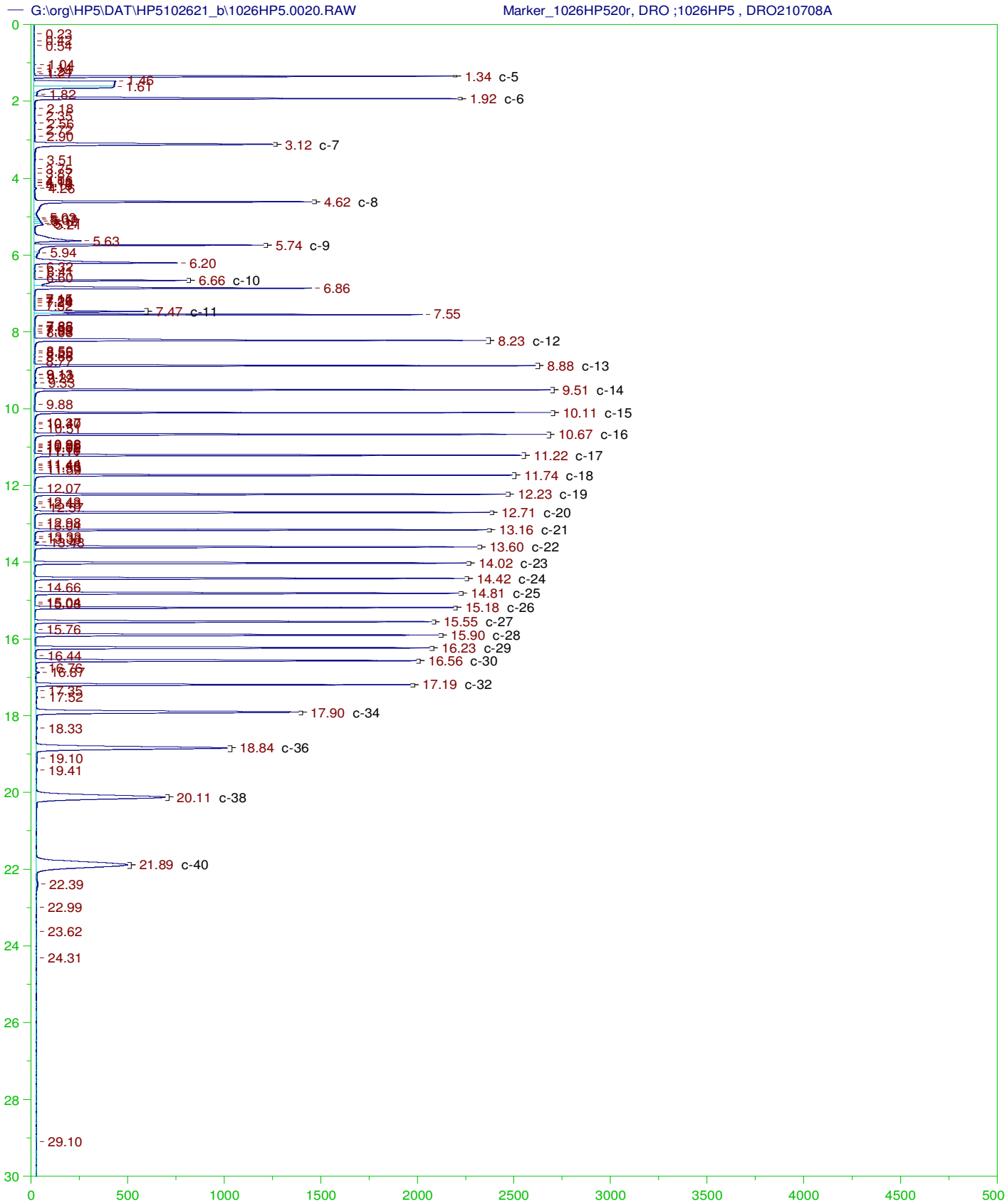

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

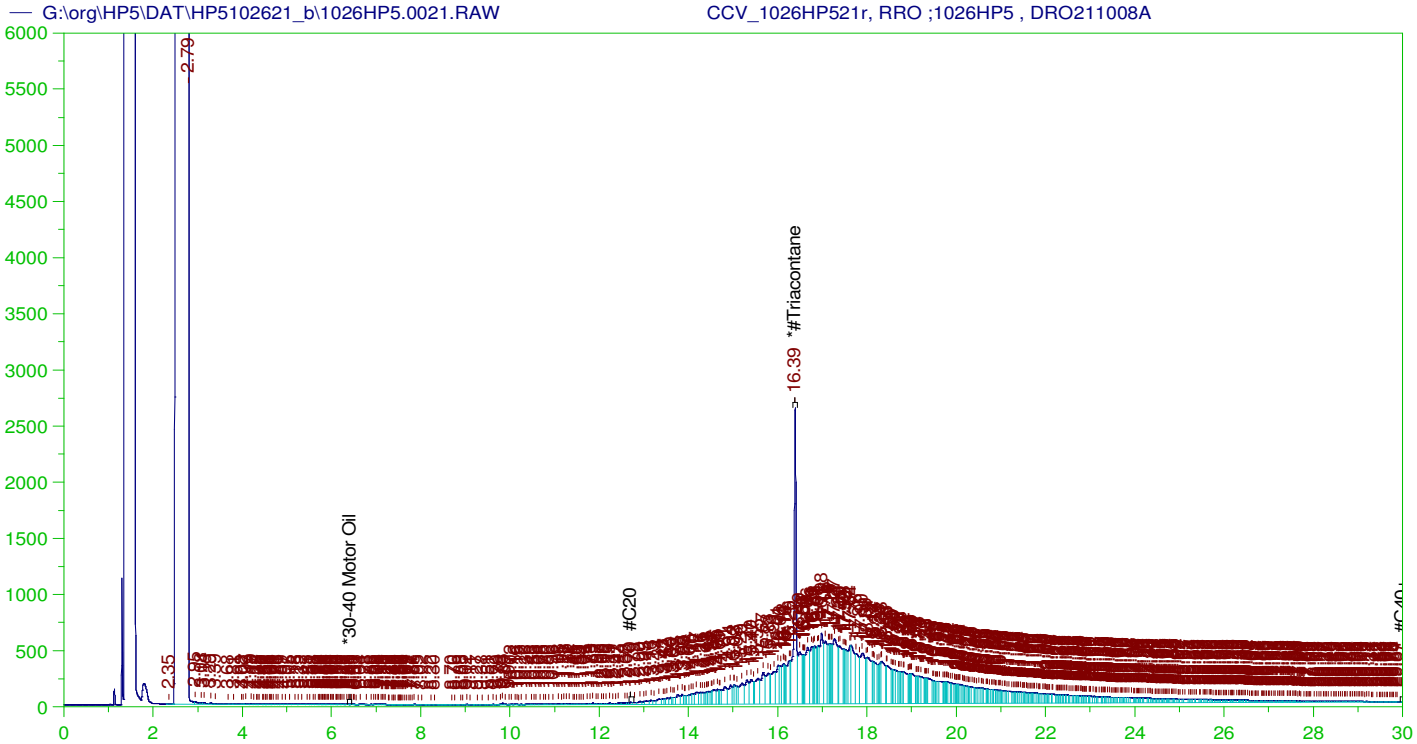
Sample Name: B21101908-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0019.RAW
Date & Time Acquired: 10/26/2021 8:50:30 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.317 | .194 | .169 | 86.89 | - |
| *1-Chlorooctadecane | 13.121 | .194 | . | .03 | - |
| *#Triacontane | 16.385 | .194 | .077 | 39.5 | - |

DRO Area:279056.3 DRO Amount: 9.197316E-03
TEH Area:1579253 TEH Amount: 5.205003E-02


G:\org\HP5\DAT\HP5102621_b\1026HP5.0020.RAW
Marker_1026HP520r, DRO ;1026HP5 , DRO210708A
1.34 c-5
1.92 c-6
3.12 c-7
4.62 c-8
5.74 c-9
6.66 c-10
7.47 c-11
8.23 c-12
8.88 c-13
9.51 c-14
10.11 c-15
10.67 c-16
11.22 c-17
11.74 c-18
12.23 c-19
12.71 c-20
13.16 c-21
13.60 c-22
14.02 c-23
14.42 c-24
14.81 c-25
15.18 c-26
15.55 c-27
15.90 c-28
16.23 c-29
16.56 c-30
17.19 c-32
17.90 c-34
18.84 c-36
20.11 c-38
21.89 c-40
G:\org\HP5\dat\HP5102621_b\Review\020_Marker_1026HP520r_CSC211026.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP521r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0021.RAW
Date & Time Acquired: 10/26/2021 10:17:09 PM
Method File: G:\Org\HP5\Methods\DC_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH (Oil Range)Range Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.388 | 500. | 317.879 | 63.58 | - |

~~RRO~~ TEH (Oil Range) Area:1.343451E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 4706.859

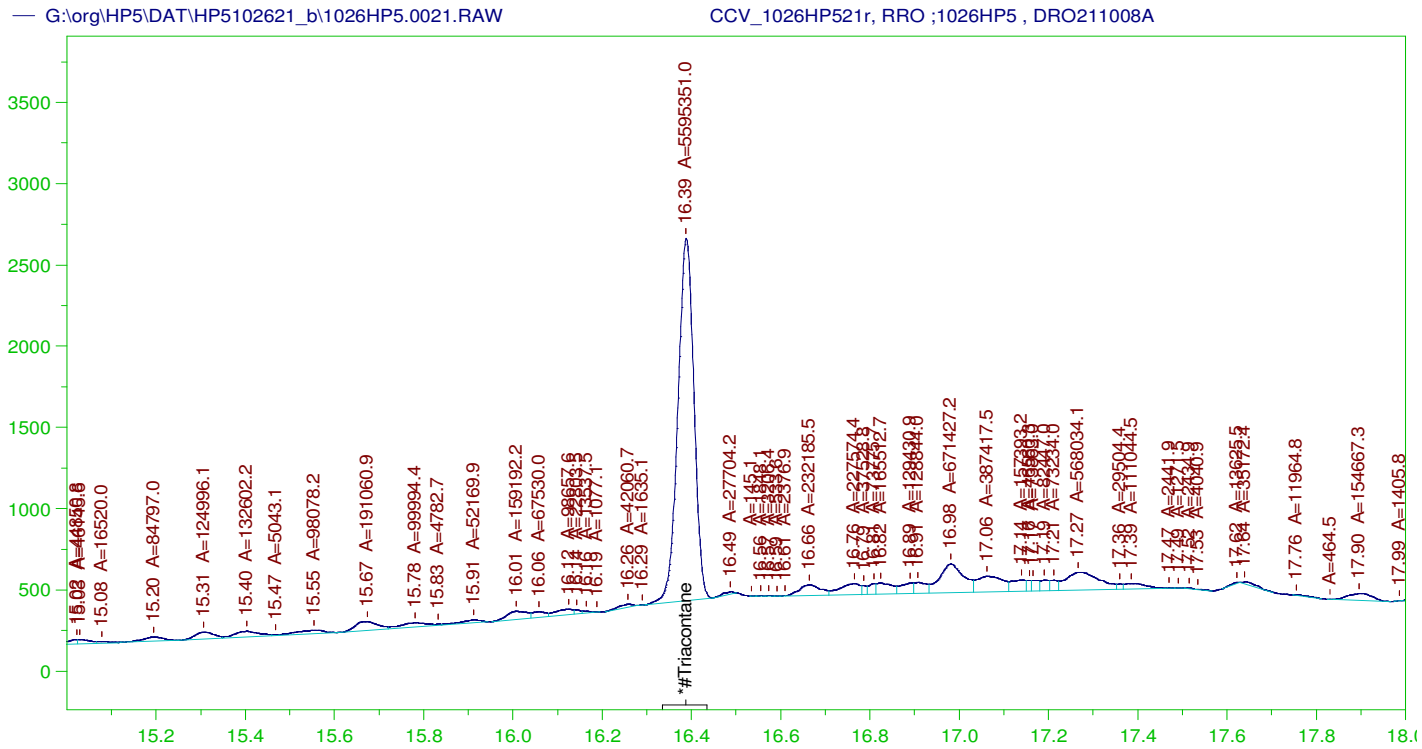
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0021.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | .024 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.388 | 200. | 317.879 | 158.94 | 75-125 |

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\021_CCV_1026HP521r_DC_ORO-AB-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP521r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0021.RAW
Date & Time Acquired: 10/26/2021 10:17:09 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

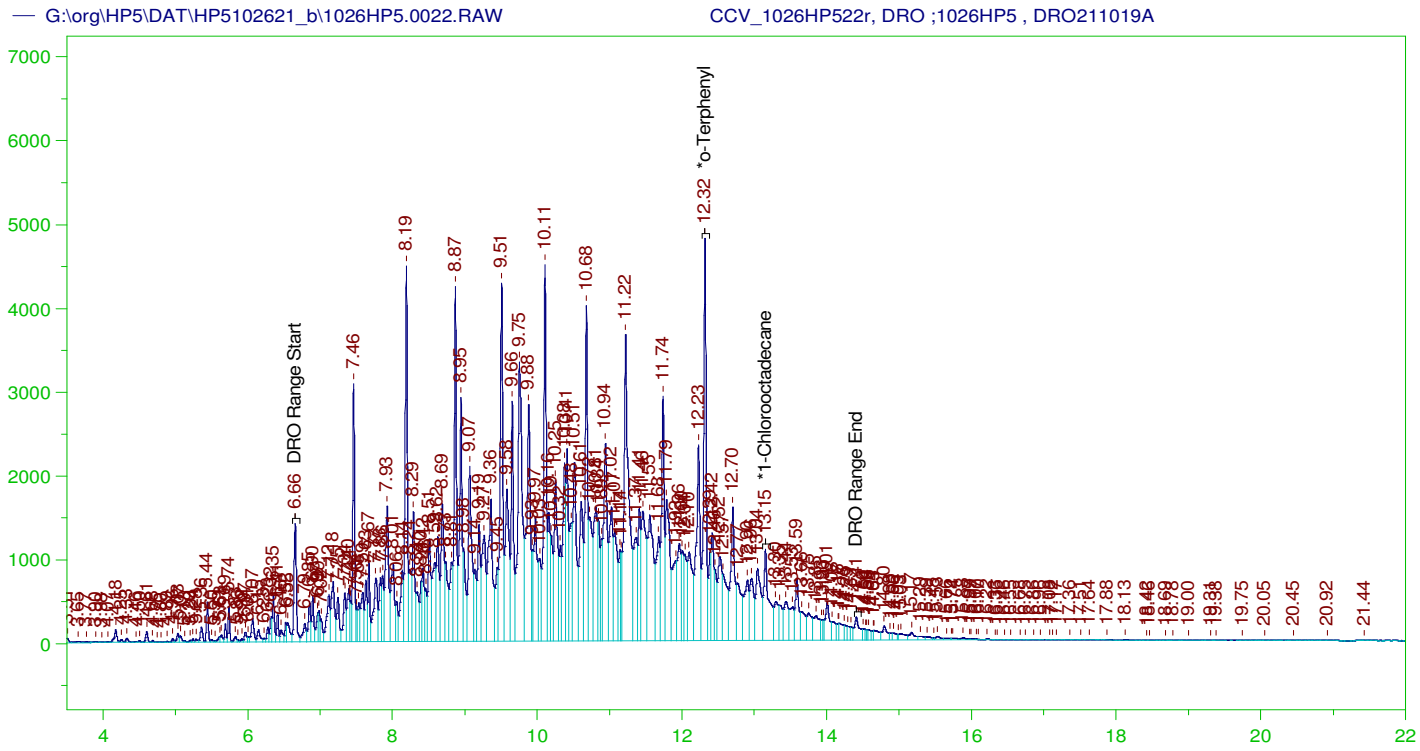
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.388 | 500. | 193.409 | 38.68 | - |

RRO Area:6073769 RRO AMOUNT: 212.798

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0021.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | .024 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.388 | 200. | 193.409 | 96.7 | 75-125 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP522r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0022.RAW
Date & Time Acquired: 10/26/2021 11:00:23 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HU-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

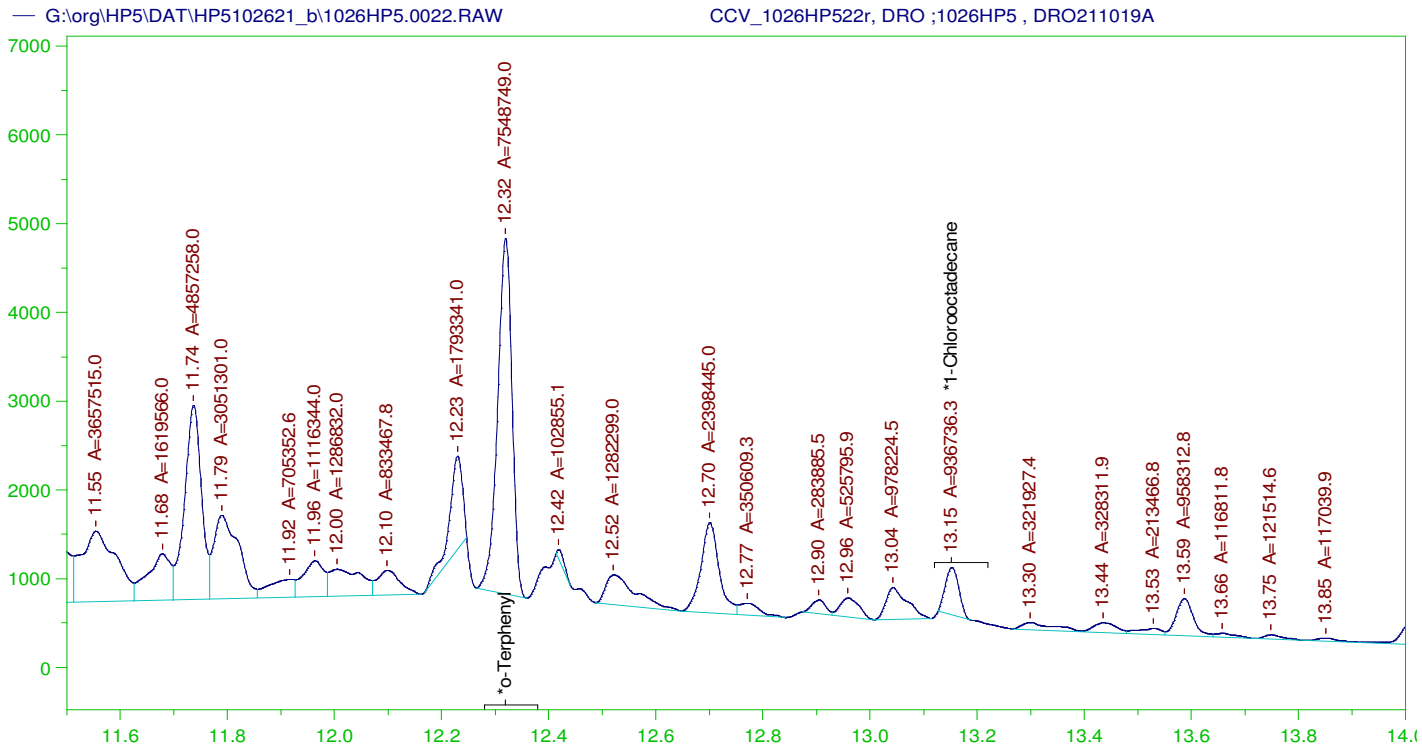
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.319 | 200. | 342.787 | 171.39 | - |
| *1-Chlorooctadecane | 13.153 | 200. | 153.793 | 76.9 | - |

DRO Area:4.35197E+08 DRO Amount: 14773.81
TEH Area:4.509497E+08 TEH Amount: 15308.57

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0022.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15308.57 | 102.06 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.319 | 200. | 342.787 | 171.39 | 85-115 |
| *1-Chlorooctadecane | 13.153 | 200. | 153.793 | 76.9 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP522r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0022.RAW
Date & Time Acquired: 10/26/2021 11:00:23 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.319 | 200. | 215.24 | 107.62 | - |
| *1-Chlorooctadecane | 13.153 | 200. | 26.71 | 13.35 | - |

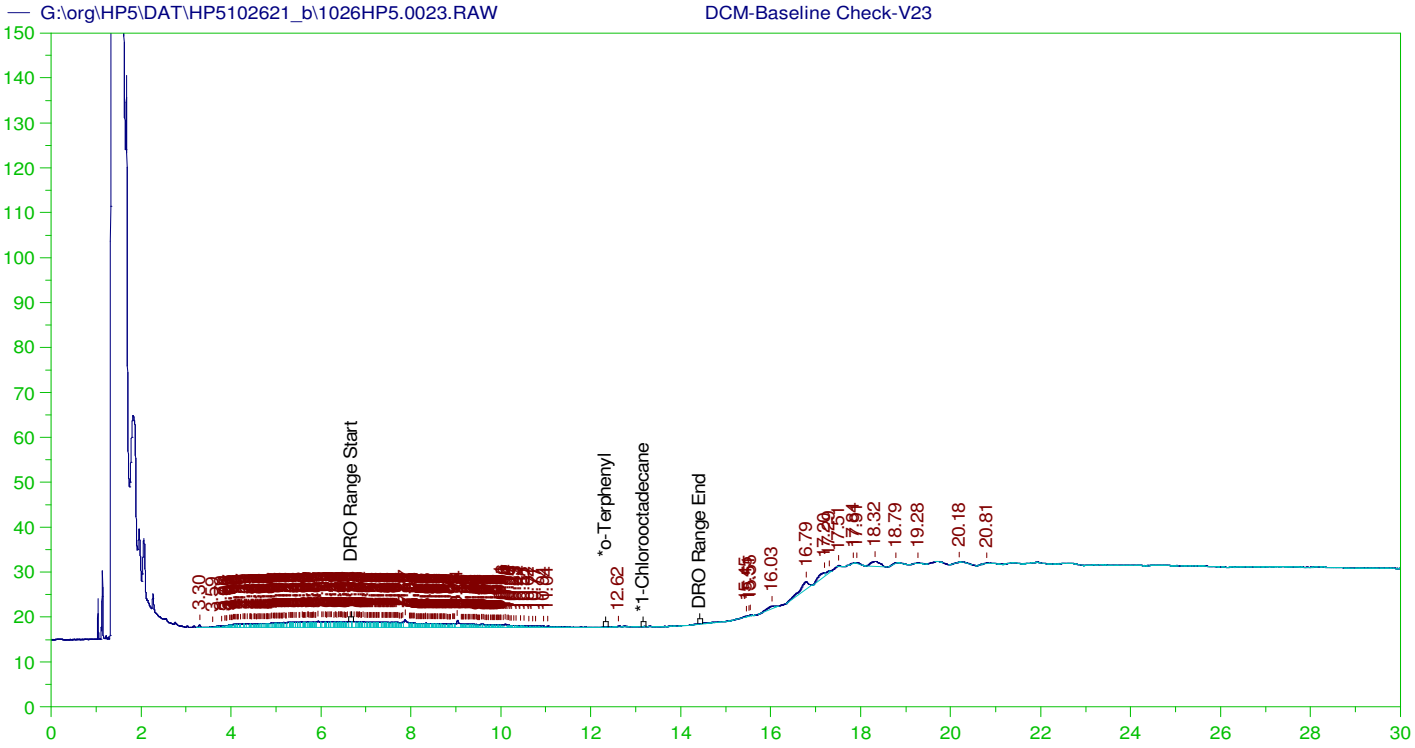
DRO Area:2.457338E+08 DRO Amount: 8342.024
TEH Area:2.558331E+08 TEH Amount: 8684.869

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0022.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8684.87 | 57.9 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.319 | 200. | 215.24 | 107.62 | 85-115 |
| *1-Chlorooctadecane | 13.153 | 200. | 26.71 | 13.35 | 85-115 |

G:\org\HP5\dat\HP5102621_b\Review\022_CCV_1026HP522r_DS_8015-area-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V23
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0023.RAW
Date & Time Acquired: 10/26/2021 11:43:40 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

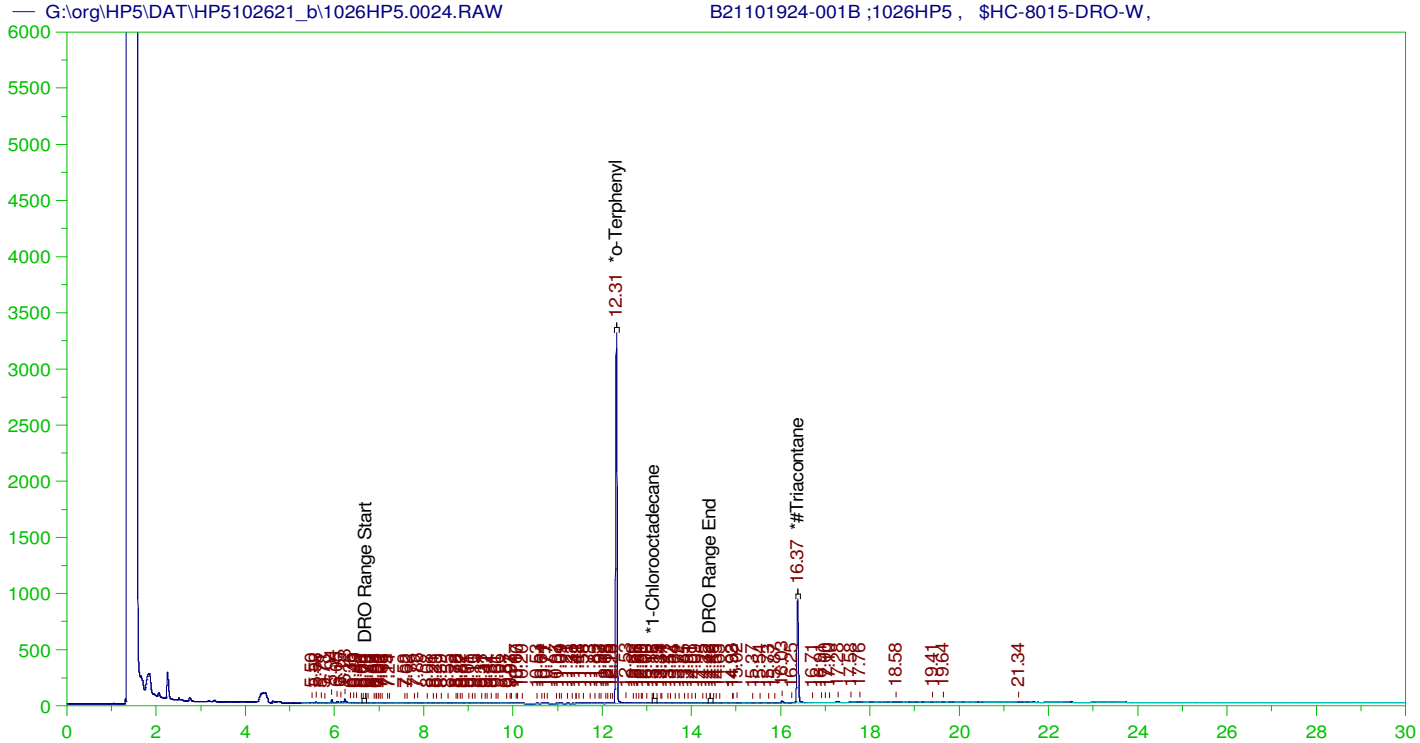
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.994 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.994 | 200. | . | . | - |

DRO Area:217671.1 DRO Amount: 7.38937
TEH Area:472026 TEH Amount: 16.02406

**ERH1696 (RHMW06)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0024.RAW B21101924-001B ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101924-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0024.RAW
Date & Time Acquired: 10/27/2021 12:26:53 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

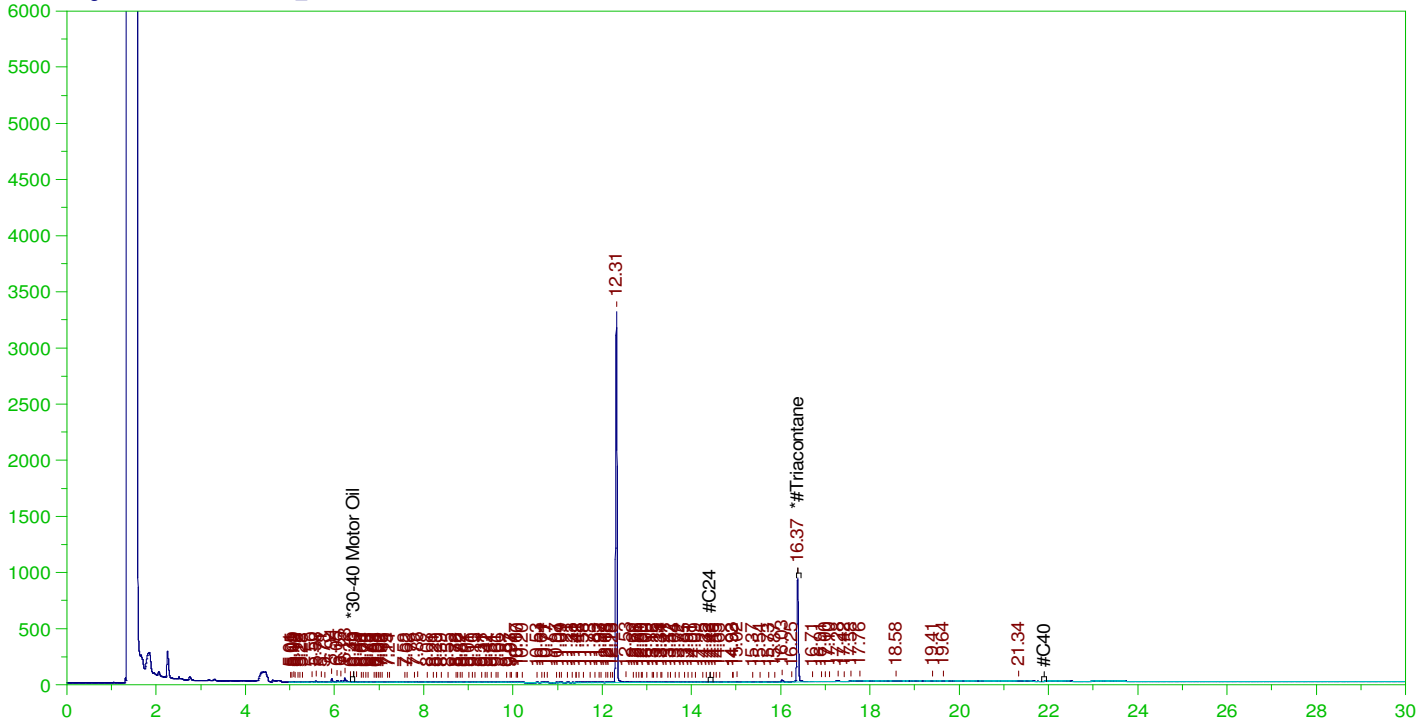
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | .19 | .169 | 89.39 | - |
| *1-Chlorooctadecane | 13.158 | .19 | . | .04 | - |
| *#Triacontane | 16.374 | .19 | .078 | 41.21 | - |

DRO Area:379426.3 DRO Amount: 1.220904E-02
TEH Area:997669.9 TEH Amount: 3.210266E-02

G:\org\HP5\dat\HP5102621_b\Review\024_B21101924-001B_DR_8015-C24-Tri-HU-L%.xls

**ERH1696 (RHMW06)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0024.RAW B21101924-001B ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101924-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0024.RAW
Date & Time Acquired: 10/27/2021 12:26:53 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

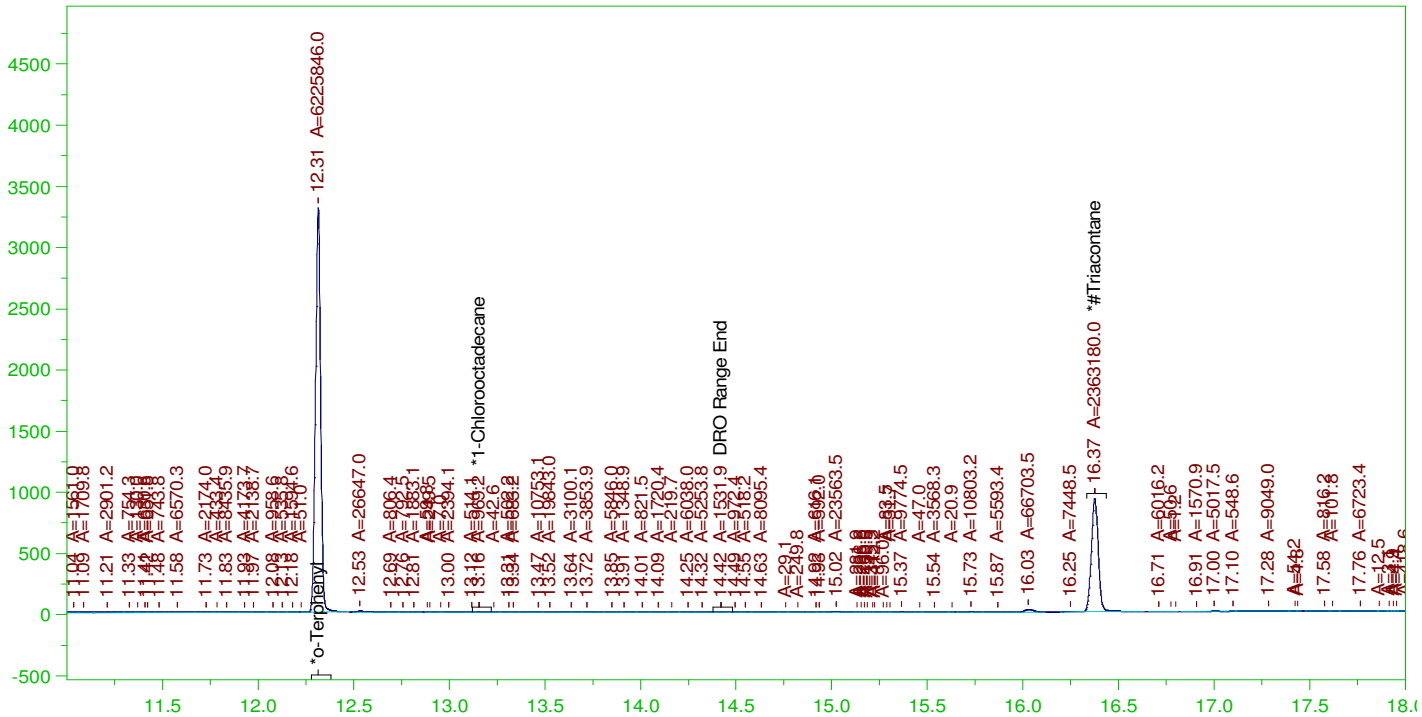
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.374 | .474 | .078 | 16.49 | - |

RRO Area:216458.2 RRO AMOUNT: 7.188377E-03

**ERH1696 (RHMW06)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0024.RAW B21101924-001B ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

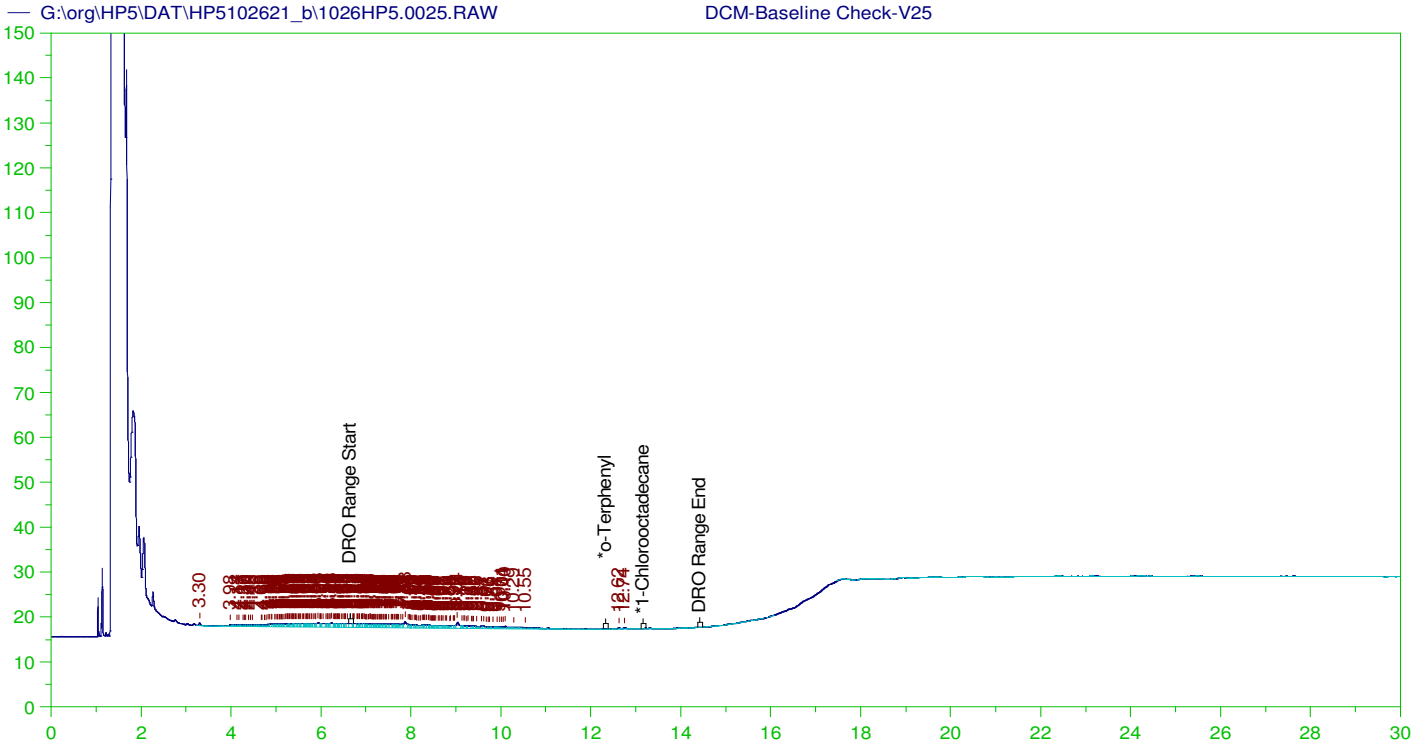
Sample Name: B21101924-001B ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0024.RAW
Date & Time Acquired: 10/27/2021 12:26:53 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | .19 | .168 | 88.76 | - |
| *1-Chlorooctadecane | 13.158 | .19 | . | .01 | - |
| *#Triacontane | 16.374 | .19 | .077 | 40.84 | - |

DRO Area:303295 DRO Amount: 9.759317E-03
TEH Area:2322669 TEH Amount: 7.473798E-02

G:\org\HP5\dat\HP5102621_b\Review\024_B21101924-001B_DS_8015-C24T-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

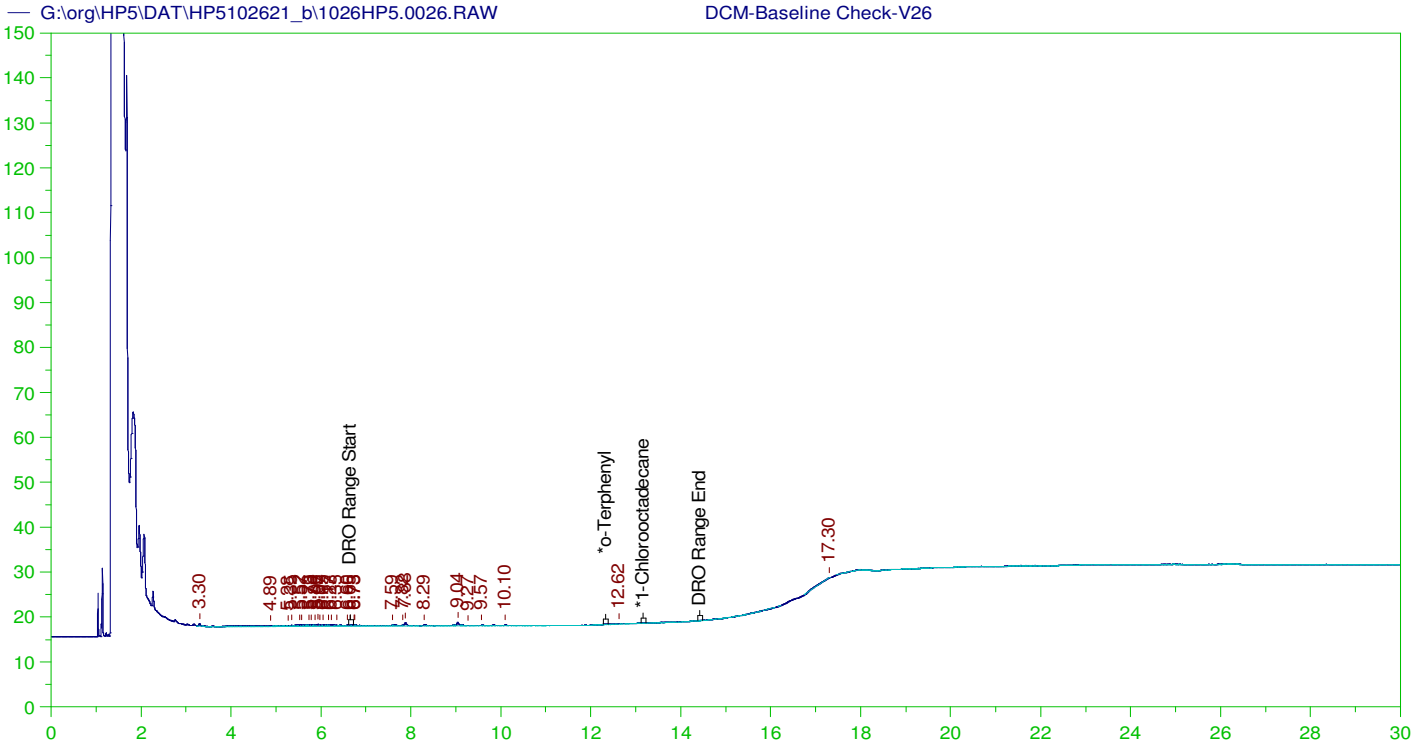
Sample Name: DCM-Baseline Check-V25
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0025.RAW
Date & Time Acquired: 10/27/2021 1:10:10 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.991 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.991 | 200. | . | . | - |

DRO Area:144733.7 DRO Amount: 4.913335
TEH Area:246145.8 TEH Amount: 8.356012

G:\org\HP5\dat\HP5102621_b\Review\025_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V26
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0026.RAW
Date & Time Acquired: 10/27/2021 1:53:20 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

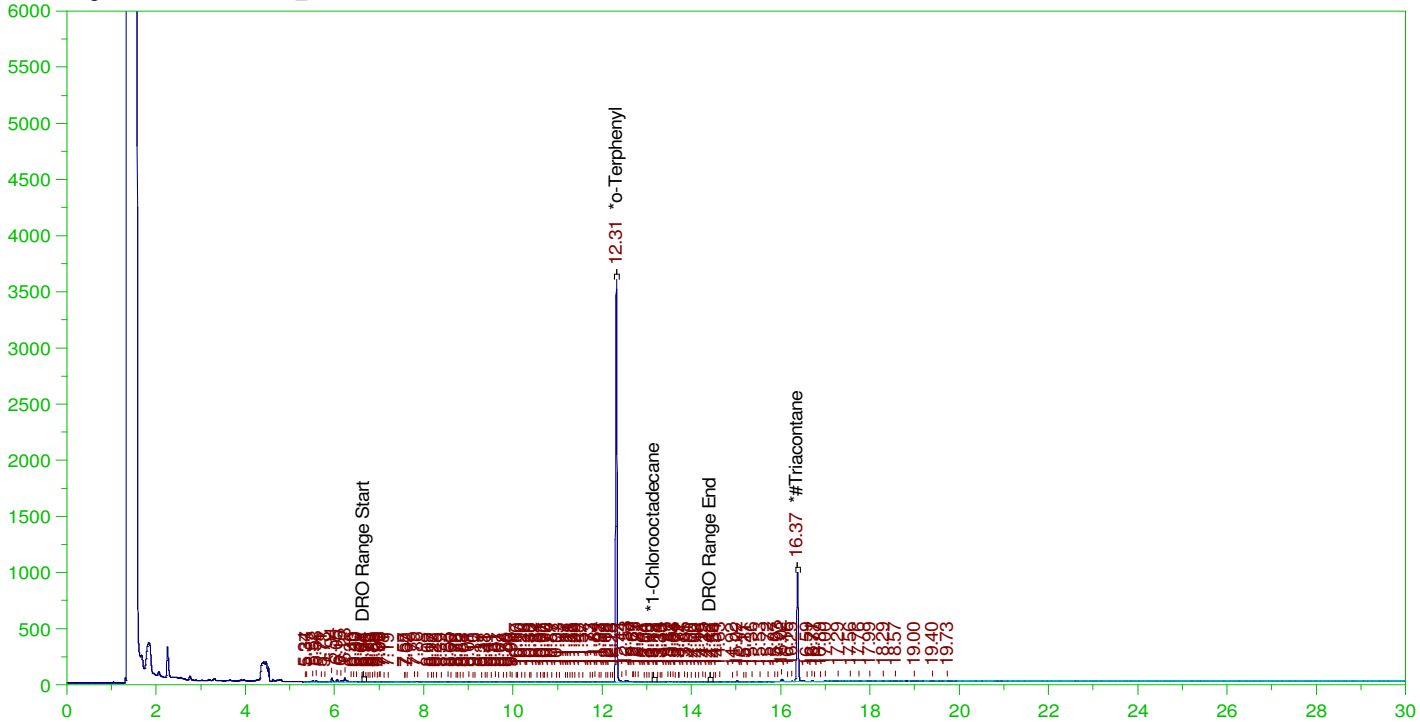
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.989 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.989 | 200. | . | . | - |

DRO Area:48256.16 DRO Amount: 1.638171
TEH Area:96546.36 TEH Amount: 3.277498

G:\org\HP5\dat\HP5102621_b\Review\026_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

**ERH1842 (RHSF)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0027.RAW B21101919-007A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-007A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0027.RAW
Date & Time Acquired: 10/27/2021 2:36:41 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

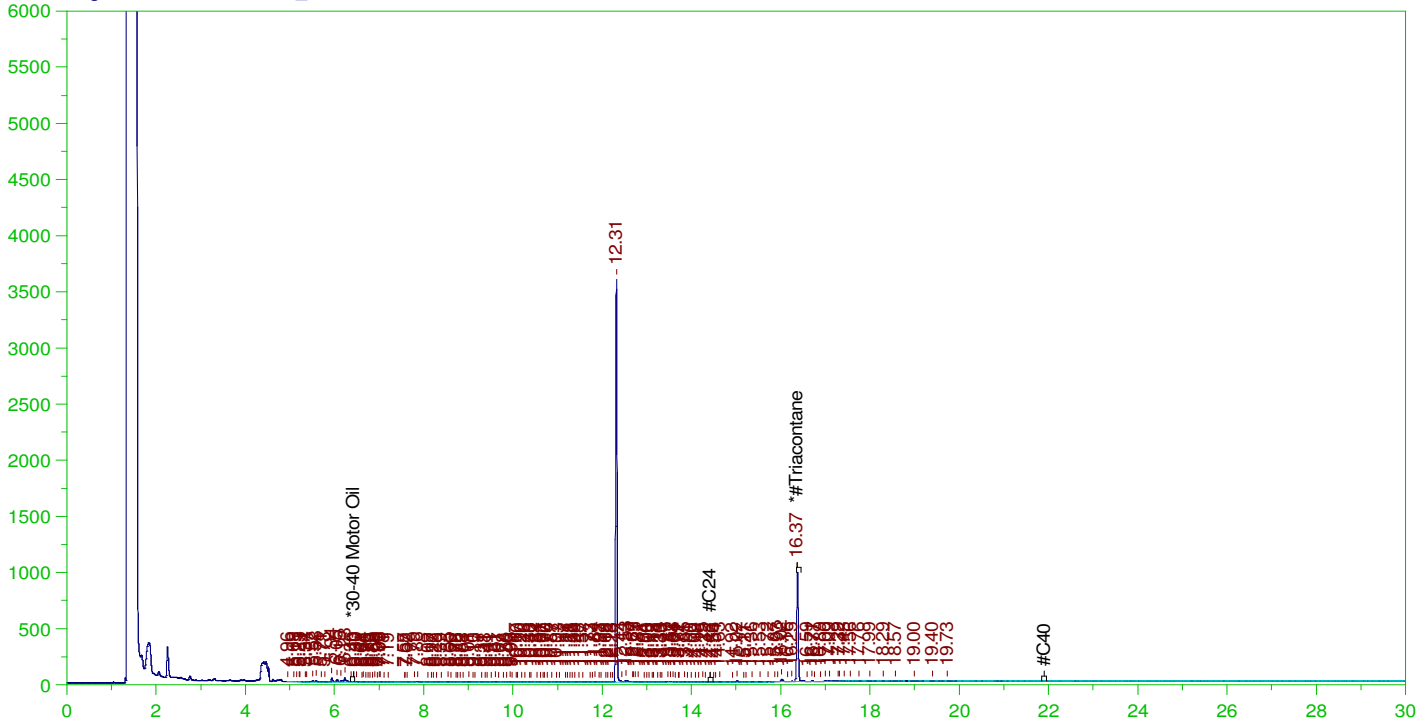
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.314 | .196 | .187 | 95.18 | - |
| *1-Chlorooctadecane | 13.154 | .196 | . | .04 | - |
| *#Triacontane | 16.372 | .196 | .085 | 43.48 | - |

DRO Area:516911.8 DRO Amount: 1.720374E-02
TEH Area:1167730 TEH Amount: 3.886411E-02

G:\org\HP5\dat\HP5102621_b\Review\027_B21101919-007A_DR_8015-C24-Tri-HU-L%.xls

**ERH1842 (RHSF)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0027.RAW B21101919-007A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-007A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0027.RAW
Date & Time Acquired: 10/27/2021 2:36:41 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

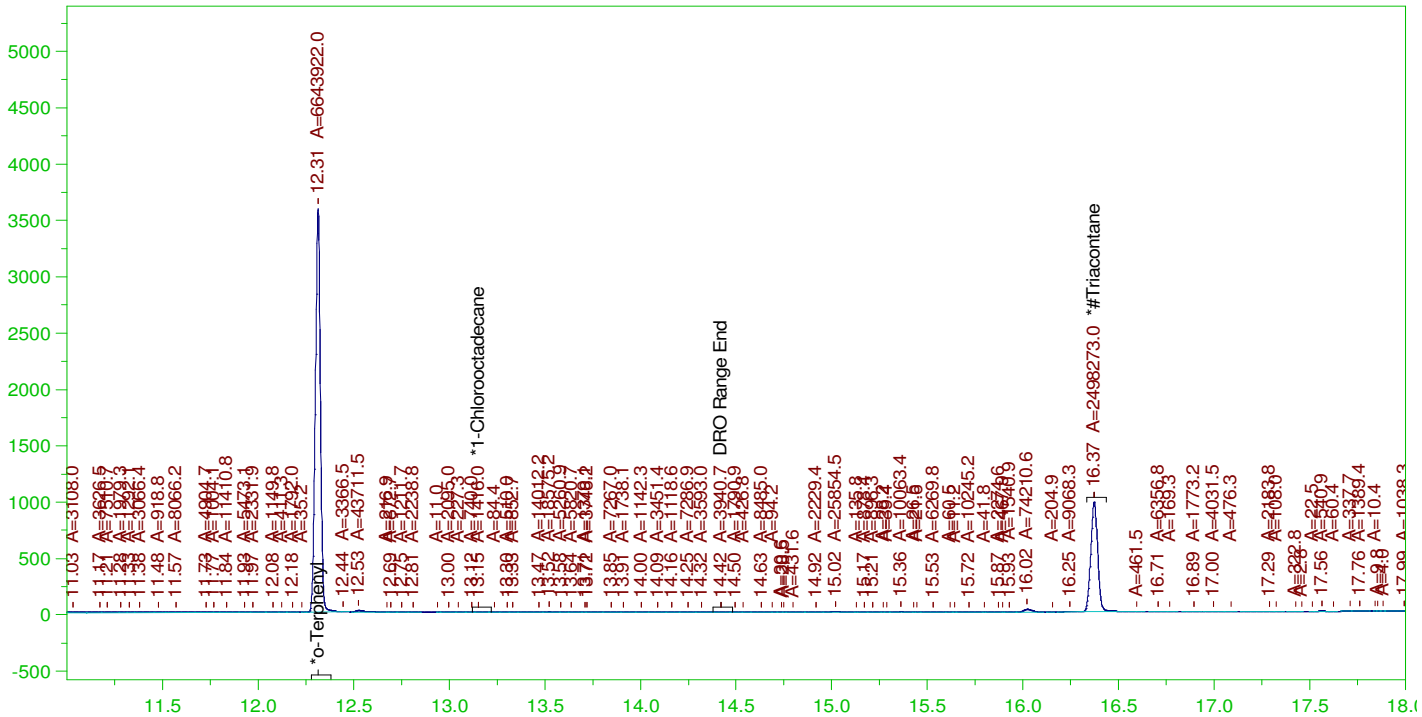
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | .49 | .085 | 17.39 | - |

RRO Area:218733.5 RRO AMOUNT: 7.513192E-03

G:\org\HP5\dat\HP5102621_b\Review\027_B21101919-007A_DR_OROS-AB-L%.xls

**ERH1842 (RHSF)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0027.RAW B21101919-007A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-007A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0027.RAW
Date & Time Acquired: 10/27/2021 2:36:41 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

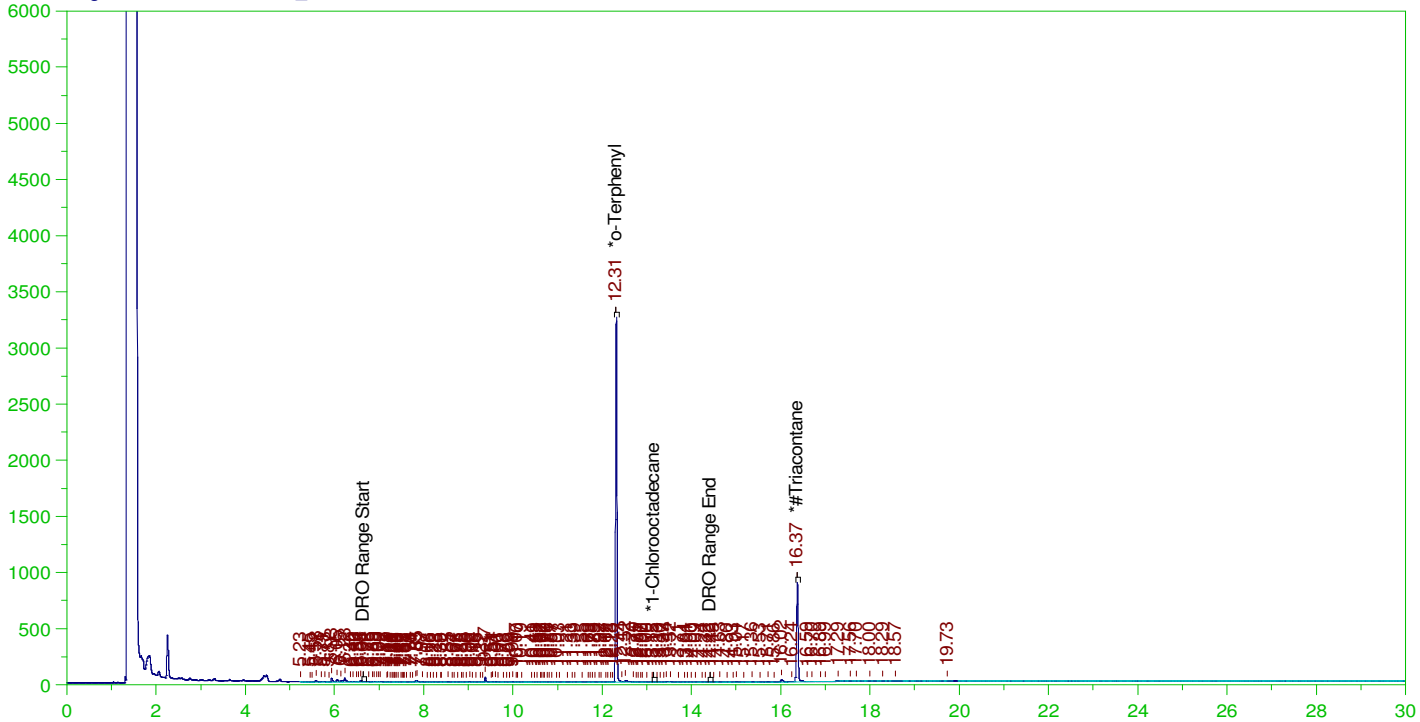
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.314 | .196 | .186 | 94.72 | - |
| *1-Chlorooctadecane | 13.154 | .196 | . | .02 | - |
| *#Triacontane | 16.372 | .196 | .085 | 43.18 | - |

DRO Area:415183.5 DRO Amount: 1.381804E-02
TEH Area:3386335 TEH Amount: 0.1127032

G:\org\HP5\dat\HP5102621_b\Review\027_B21101919-007A_DS_8015-C24T-HU-L#.xls

**ERH1840 (RHSF)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0028.RAW B21101919-006A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-006A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0028.RAW
Date & Time Acquired: 10/27/2021 3:19:55 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

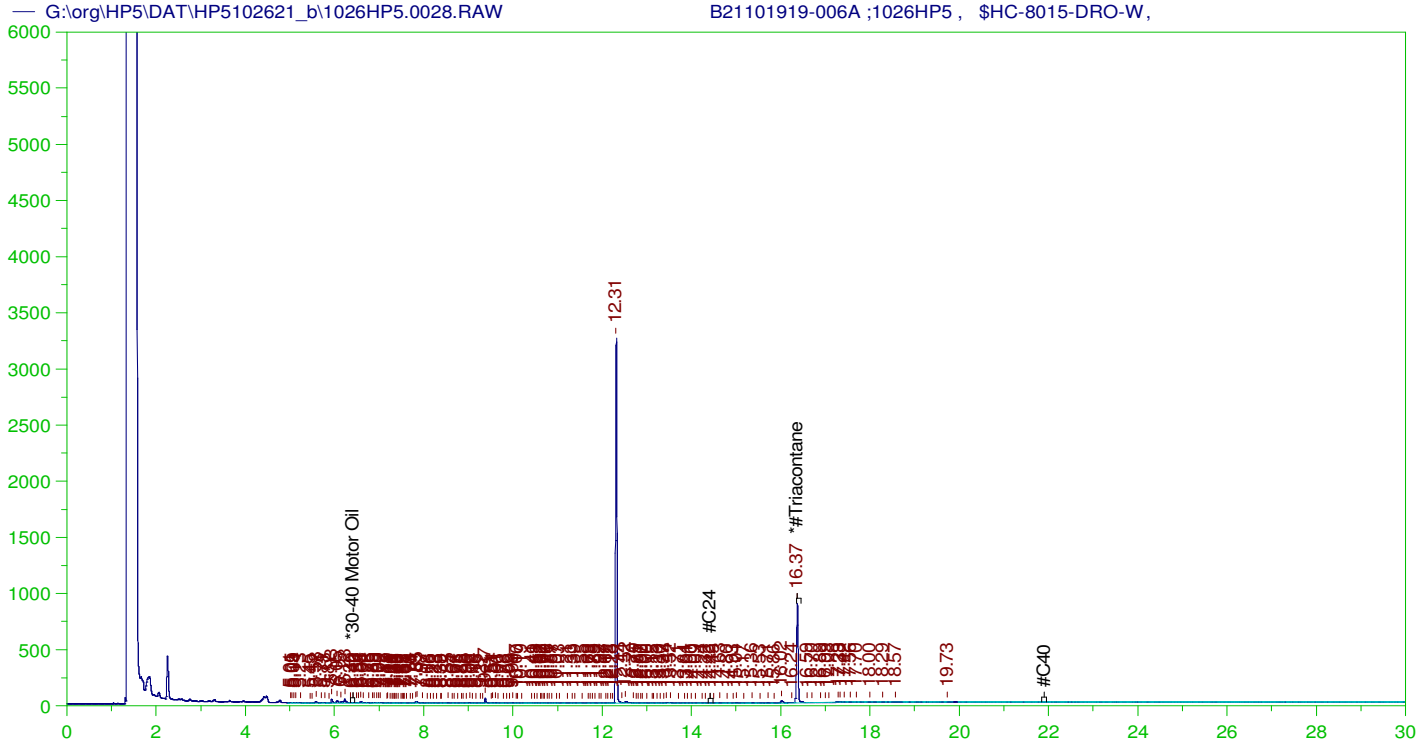
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .196 | .171 | 87.3 | - |
| *1-Chlorooctadecane | 13.151 | .196 | . | .05 | - |
| *#Triacontane | 16.368 | .196 | .077 | 39.43 | - |

DRO Area:715177 DRO Amount: 2.380236E-02
TEH Area:1340086 TEH Amount: 4.460045E-02

G:\org\HP5\dat\HP5102621_b\Review\028_B21101919-006A_DR_8015-C24-Tri-HU-L%.xls

**ERH1840 (RHSF)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0028.RAW B21101919-006A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-006A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0028.RAW
Date & Time Acquired: 10/27/2021 3:19:55 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.368 | .49 | .077 | 15.77 | - |

RRO Area:192914 RRO AMOUNT: 6.626329E-03

G:\org\HP5\dat\HP5102621_b\Review\028_B21101919-006A_DR_OROS-AB-L%.xls

**ERH1840 (RHSF)** Batch ID: 160655

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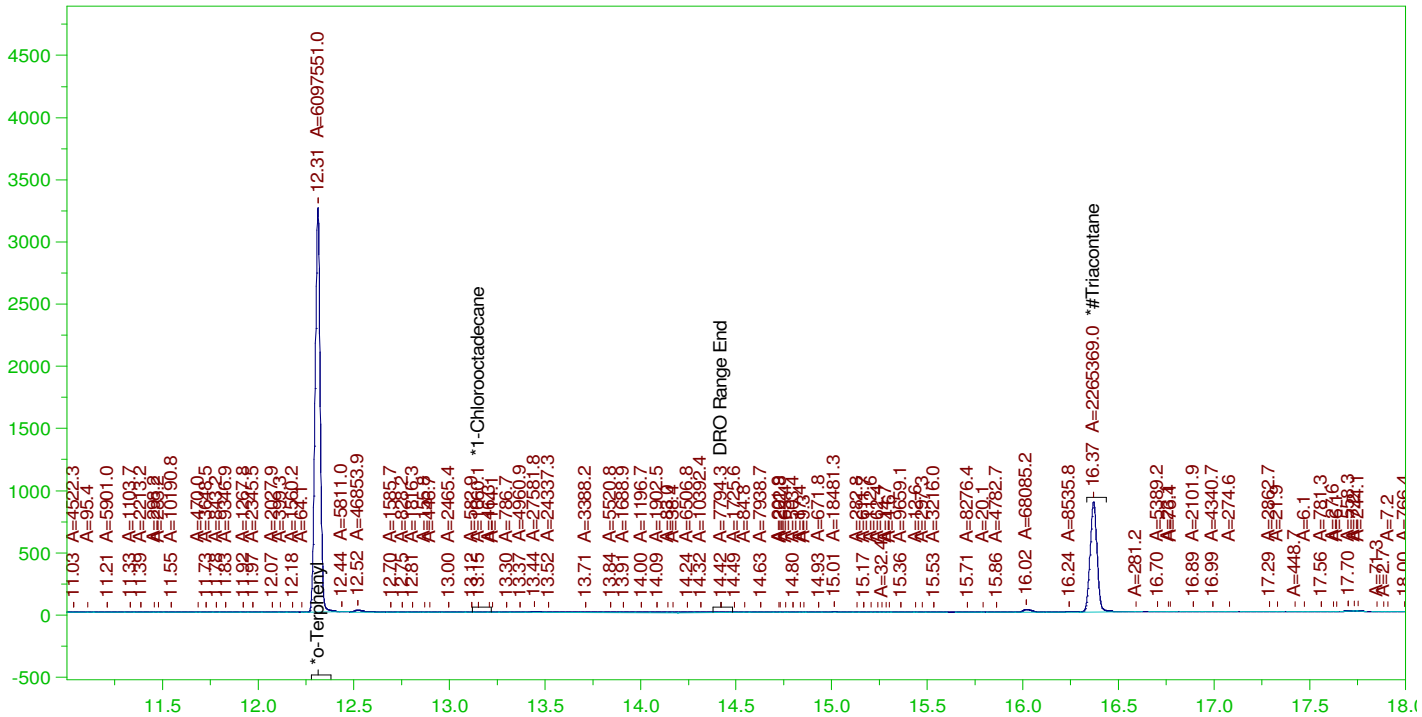



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

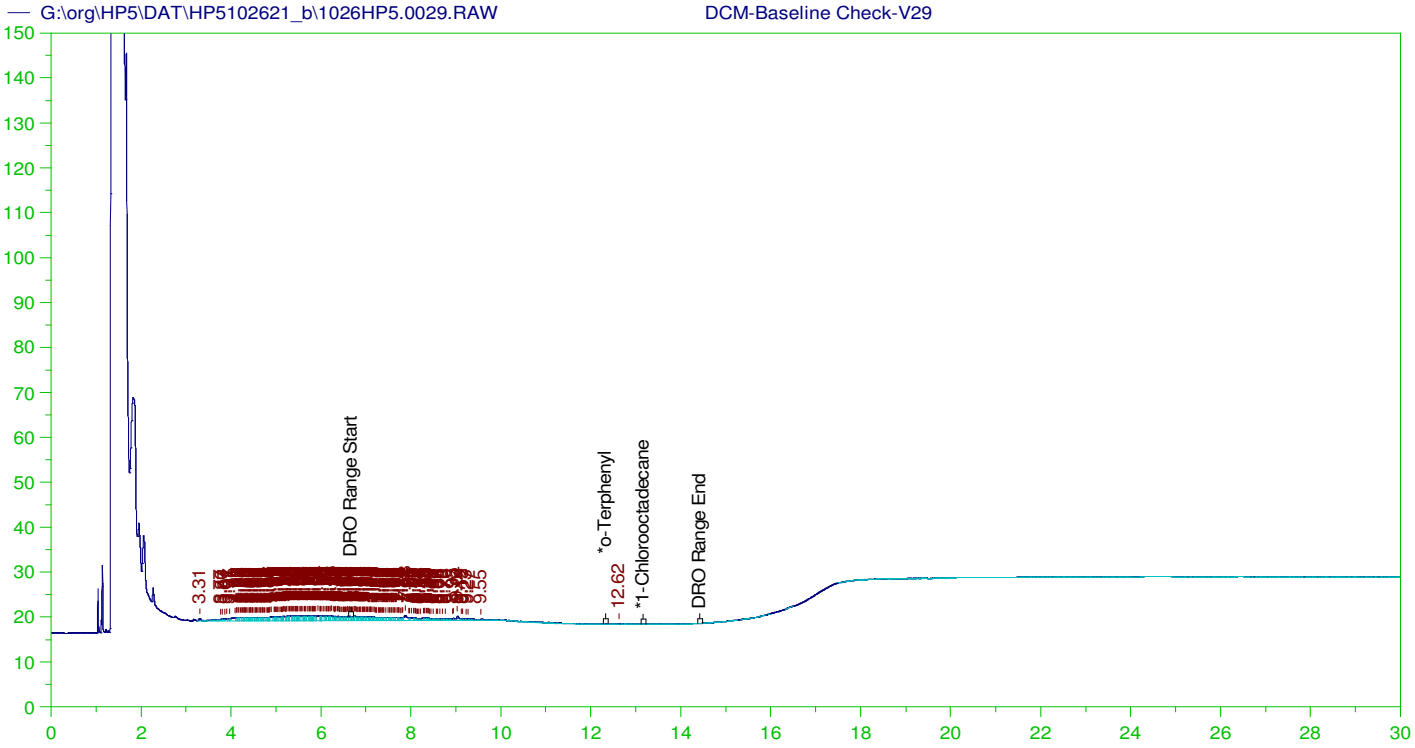
Sample Name: B21101919-006A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0028.RAW
Date & Time Acquired: 10/27/2021 3:19:55 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .196 | .17 | 86.93 | - |
| *1-Chlorooctadecane | 13.151 | .196 | . | .02 | - |
| *#Triacontane | 16.368 | .196 | .077 | 39.15 | - |

DRO Area:609215.9 DRO Amount: 2.027578E-02
TEH Area:2087792 TEH Amount: 6.948541E-02

G:\org\HP5\dat\HP5102621_b\Review\028_B21101919-006A_DS_8015-C24T-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V29
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0029.RAW
Date & Time Acquired: 10/27/2021 4:03:09 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

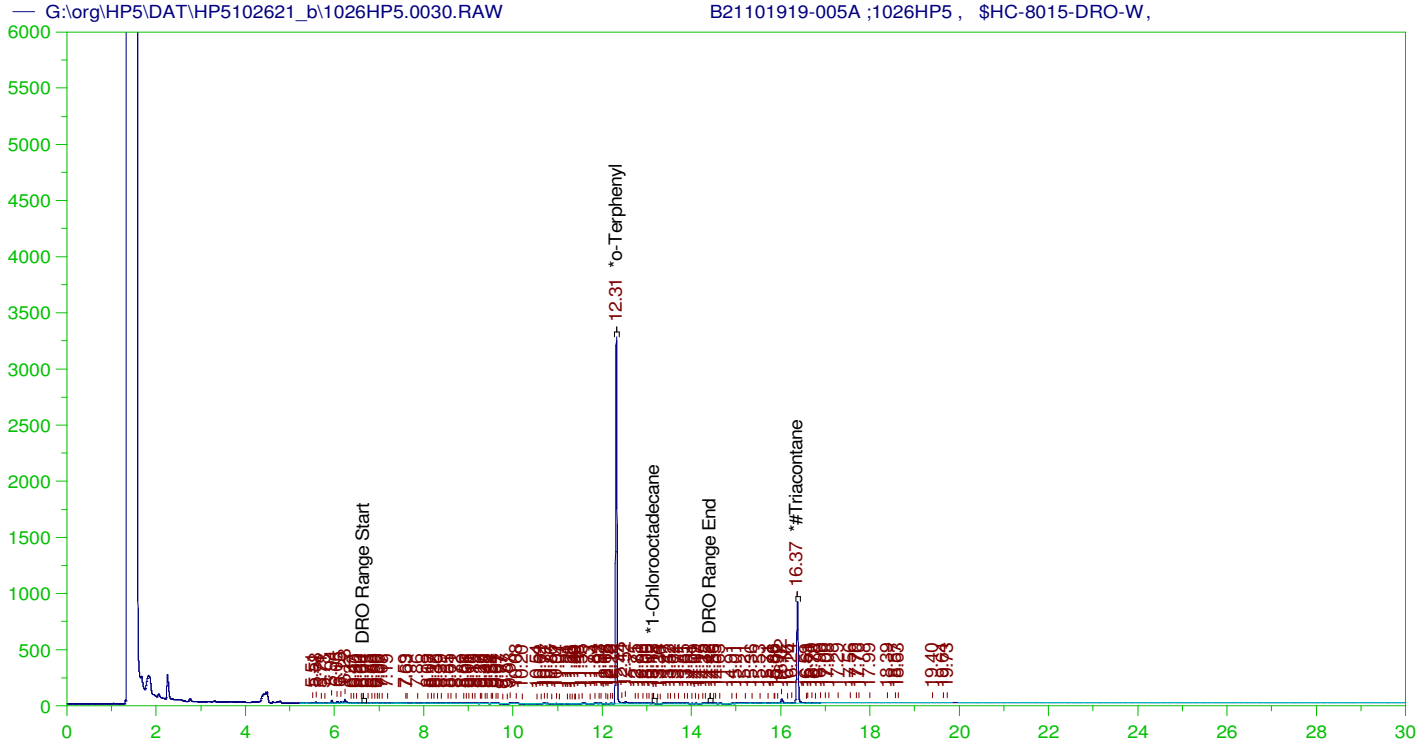
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.983 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.983 | 200. | . | . | - |

DRO Area:121667.7 DRO Amount: 4.130303
TEH Area:282565.8 TEH Amount: 9.592374

G:\org\HP5\dat\HP5102621_b\Review\029_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

**ERH1837 (RHMW2254-01)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0030.RAW B21101919-005A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-005A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0030.RAW
Date & Time Acquired: 10/27/2021 4:46:20 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

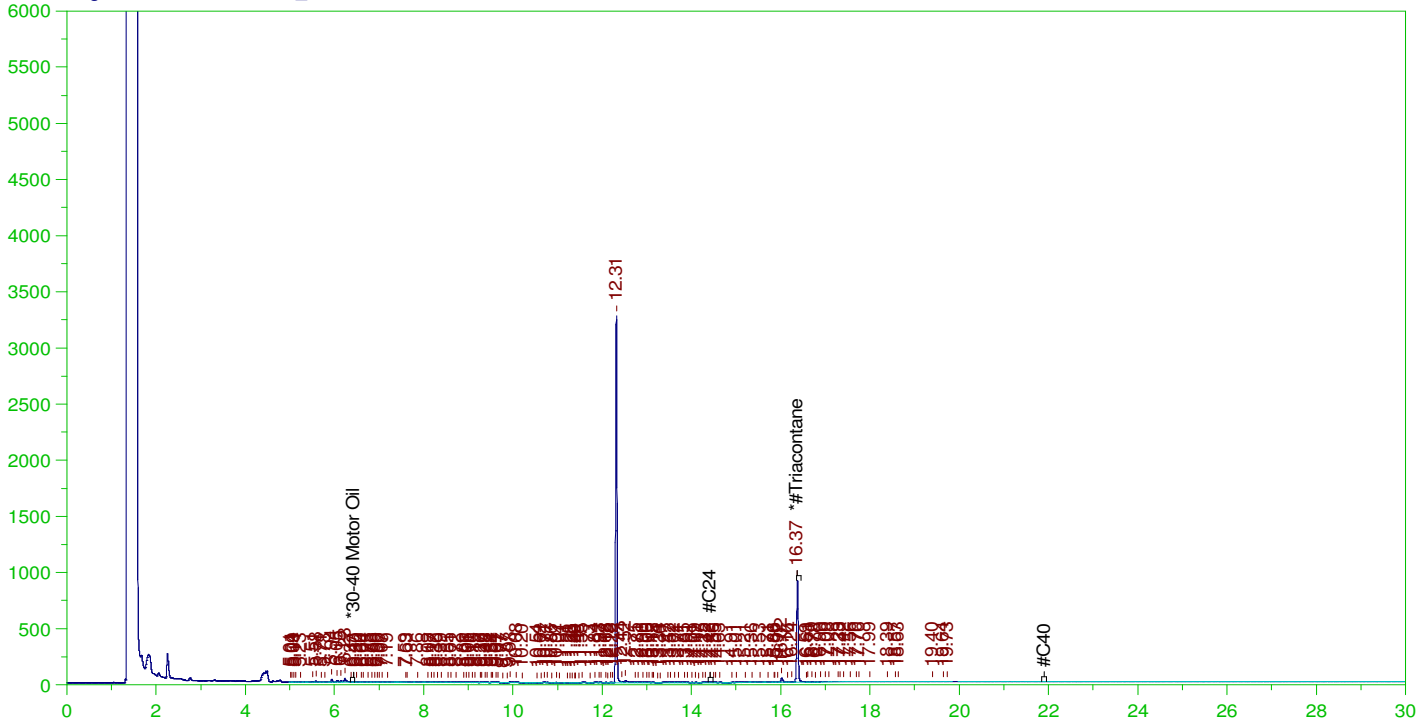
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .19 | .166 | 86.95 | - |
| *1-Chlorooctadecane | 13.154 | .19 | . | .03 | - |
| *#Triacontane | 16.37 | .19 | .076 | 39.92 | - |

DRO Area:514204.3 DRO Amount: 1.662467E-02
TEH Area:1153930 TEH Amount: 3.730756E-02

G:\org\HP5\dat\HP5102621_b\Review\030_B21101919-005A_DR_8015-C24-Tri-HU-L%.xls

**ERH1837 (RHMW2254-01)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0030.RAW B21101919-005A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-005A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0030.RAW
Date & Time Acquired: 10/27/2021 4:46:20 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

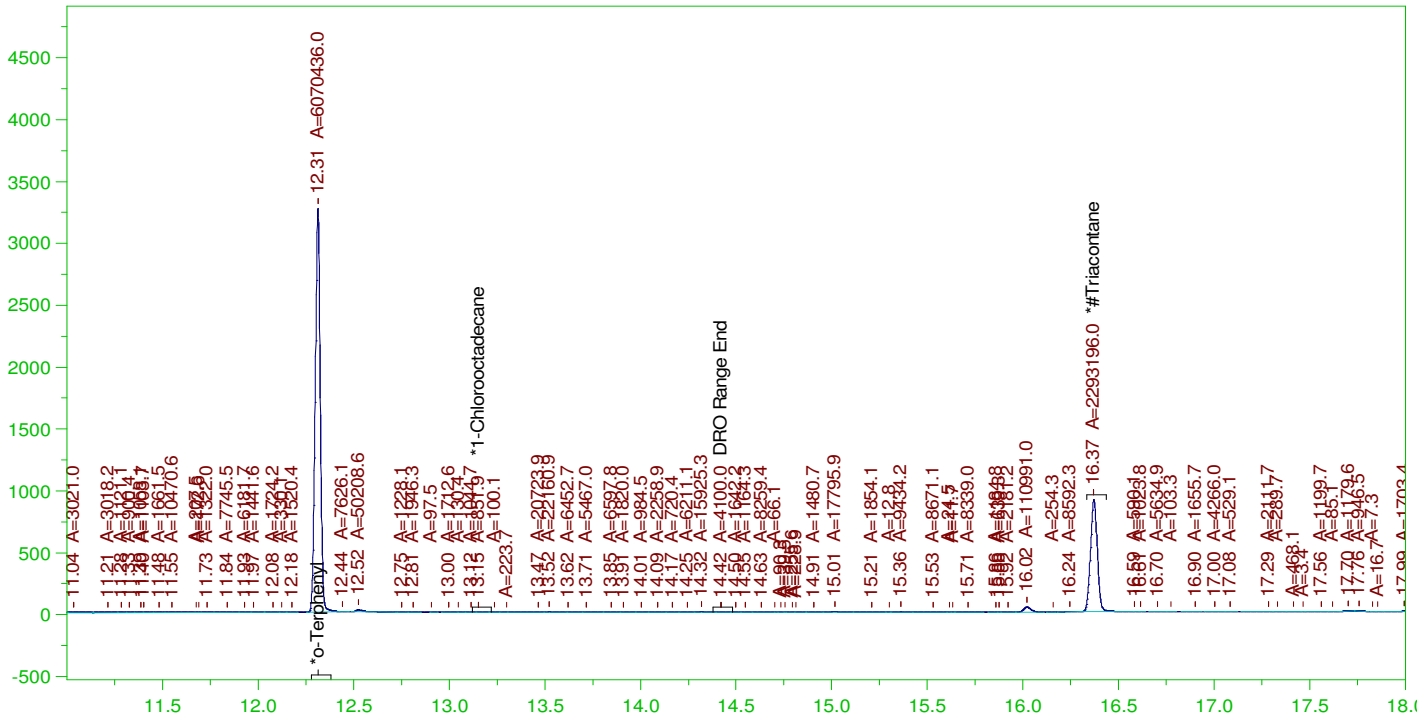
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.37 | .476 | .076 | 15.97 | - |

RRO Area:245902.8 RRO AMOUNT: 8.205093E-03

G:\org\HP5\dat\HP5102621_b\Review\030_B21101919-005A_DR_OROS-AB-L%.xls

**ERH1837 (RHMW2254-01)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0030.RAW B21101919-005A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-005A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0030.RAW
Date & Time Acquired: 10/27/2021 4:46:20 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

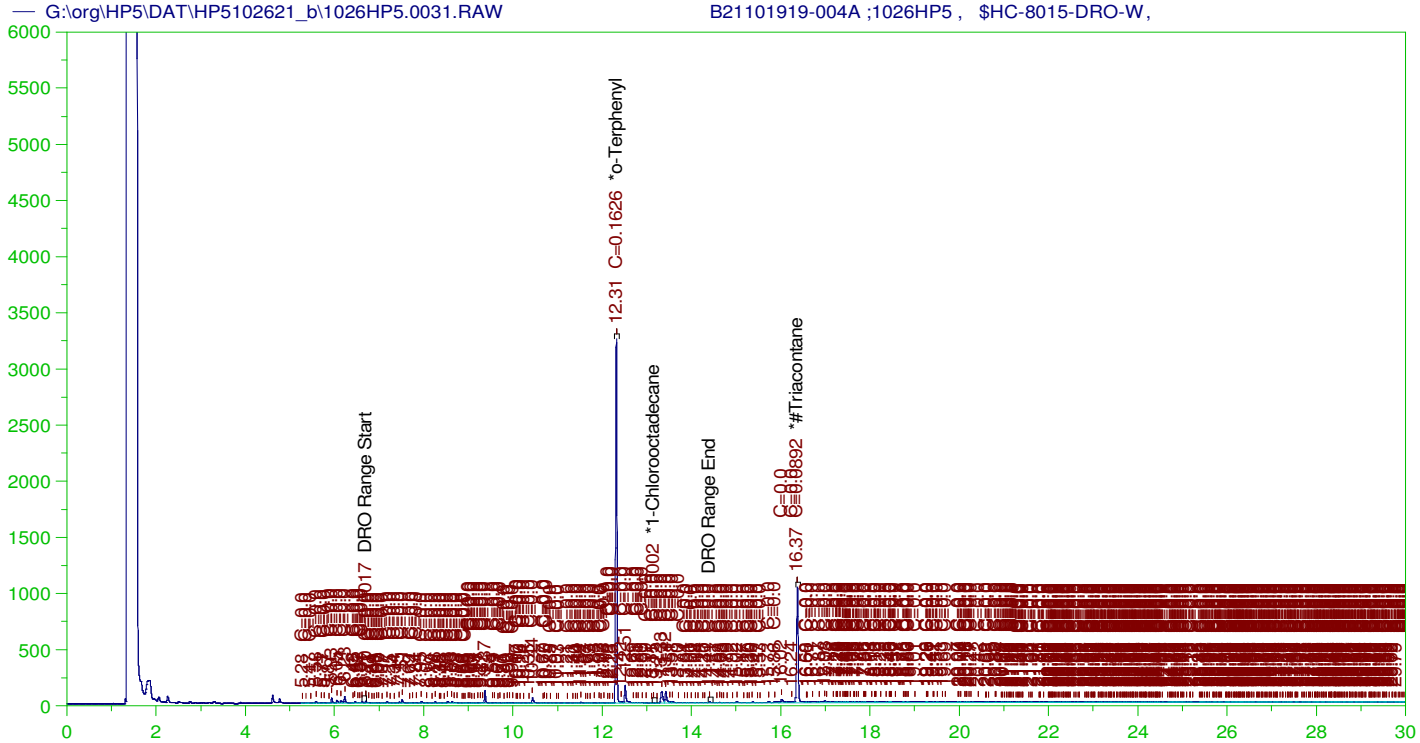
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .19 | .165 | 86.54 | - |
| *1-Chlorooctadecane | 13.154 | .19 | . | .01 | - |
| *#Triacontane | 16.37 | .19 | .075 | 39.63 | - |

DRO Area:386490.4 DRO Amount: 1.249557E-02
TEH Area:2242625 TEH Amount: 7.250598E-02

G:\org\HP5\dat\HP5102621_b\Review\030_B21101919-005A_DS_8015-C24T-HU-L#.xls

**ERH1825 (RHMW05)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0031.RAW B21101919-004A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-004A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0031.RAW
Date & Time Acquired: 10/27/2021 5:29:36 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

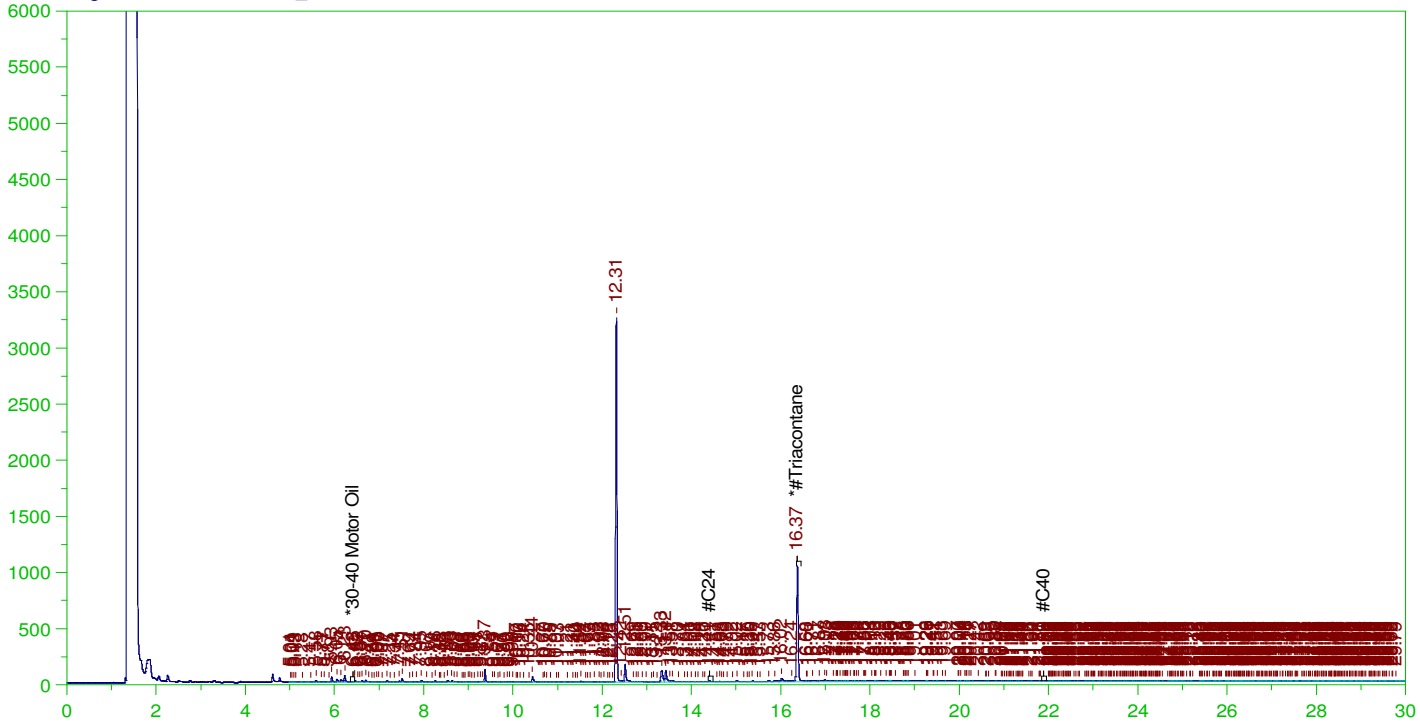
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .19 | .163 | 85.8 | - |
| *1-Chlorooctadecane | 13.152 | .19 | . | .11 | - |
| *#Triacontane | 16.369 | .19 | .089 | 47.07 | - |

DRO Area:2815652 DRO Amount: 9.060103E-02
TEH Area:9045457 TEH Amount: 0.2910614

G:\org\HP5\dat\HP5102621_b\Review\031_B21101919-004A_D3_8015-C24-Tri-HU-L%.xls

**ERH1825 (RHMW05)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0031.RAW B21101919-004A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-004A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0031.RAW
Date & Time Acquired: 10/27/2021 5:29:36 AM
Method File: G:\Org\HP5\Methods\D3_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

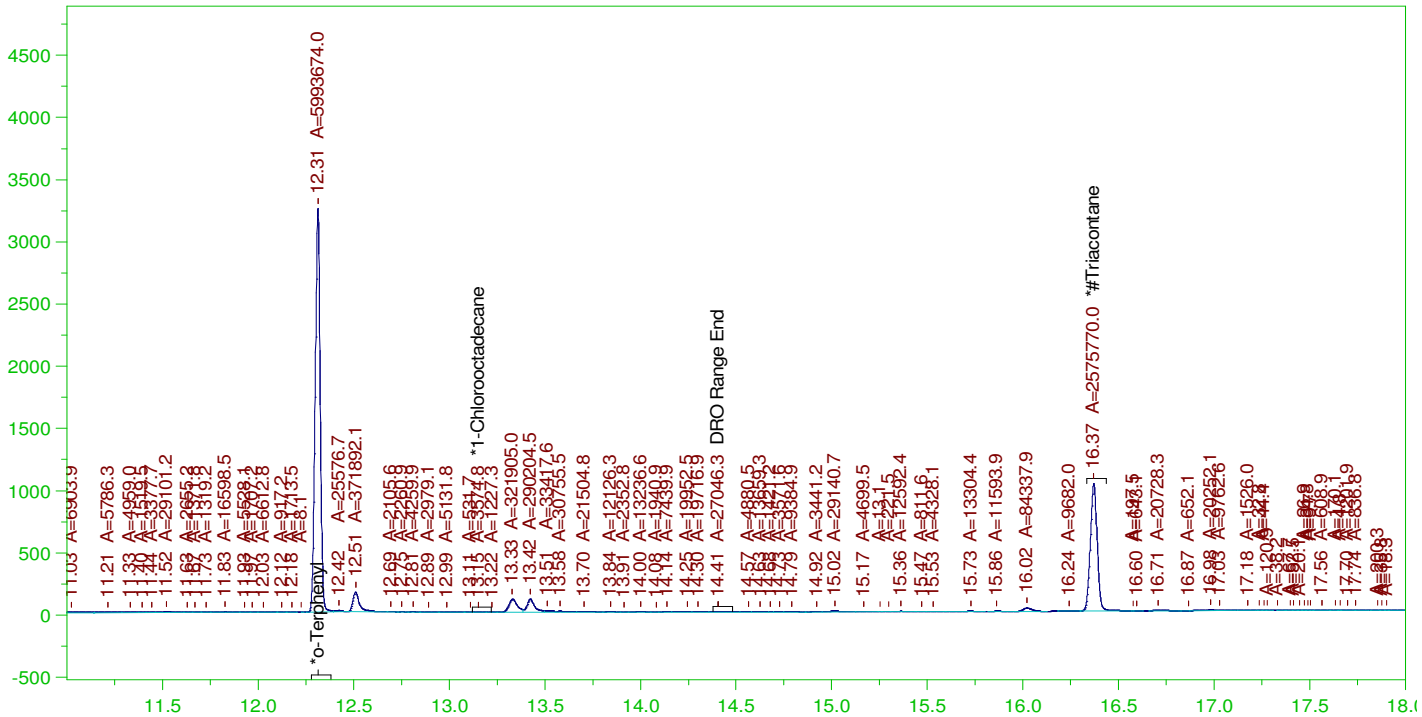
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.369 | .474 | .089 | 18.83 | - |

RRO Area:4014951 RRO AMOUNT: 0.1333328

G:\org\HP5\dat\HP5102621_b\Review\031_B21101919-004A_D3_OROS-AB-L%.xls

**ERH1825 (RHMW05)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0031.RAW B21101919-004A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

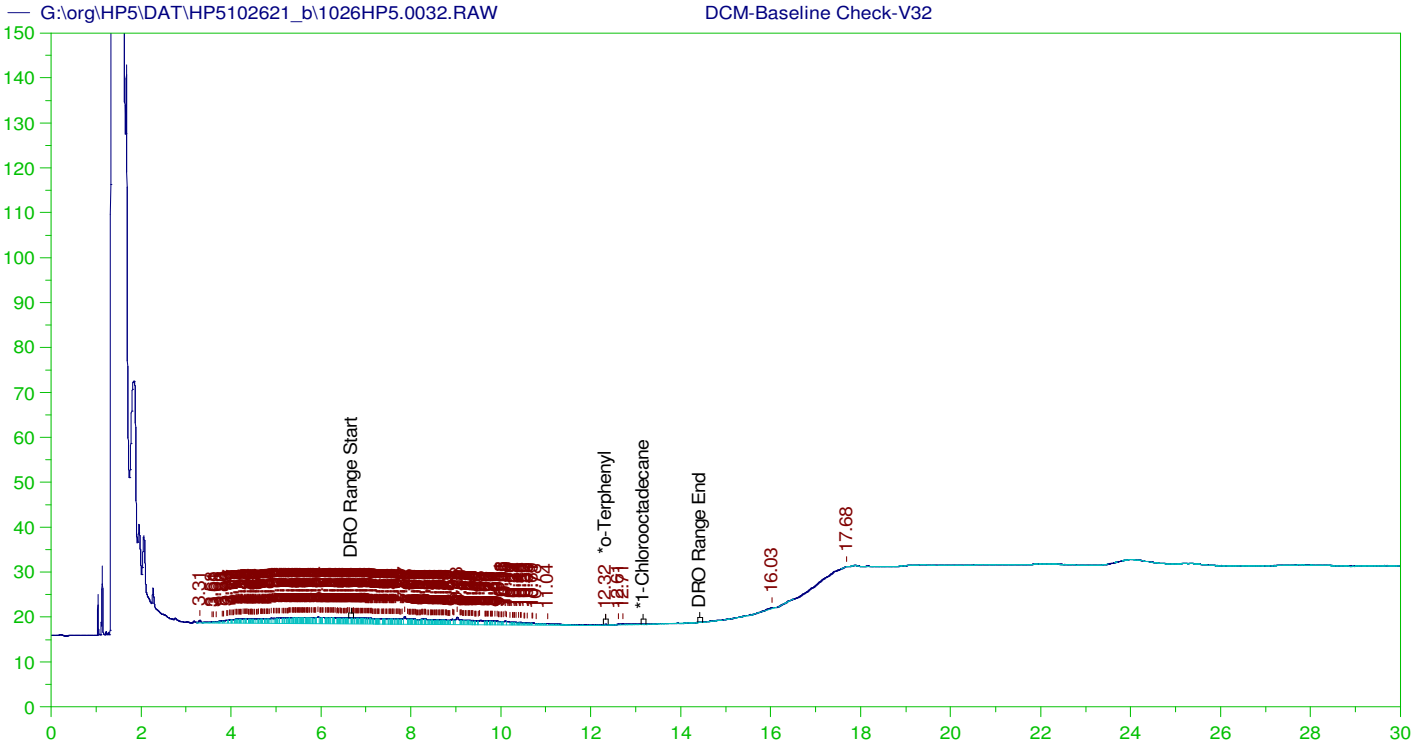
Sample Name: B21101919-004A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0031.RAW
Date & Time Acquired: 10/27/2021 5:29:36 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .19 | .162 | 85.45 | - |
| *1-Chlorooctadecane | 13.152 | .19 | . | .05 | - |
| *#Triacontane | 16.369 | .19 | .084 | 44.52 | - |

DRO Area:2593603 DRO Amount: 0.083456
TEH Area:4152963 TEH Amount: 0.1336325

G:\org\HP5\dat\HP5102621_b\Review\031_B21101919-004A_DS_8015-C24T-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

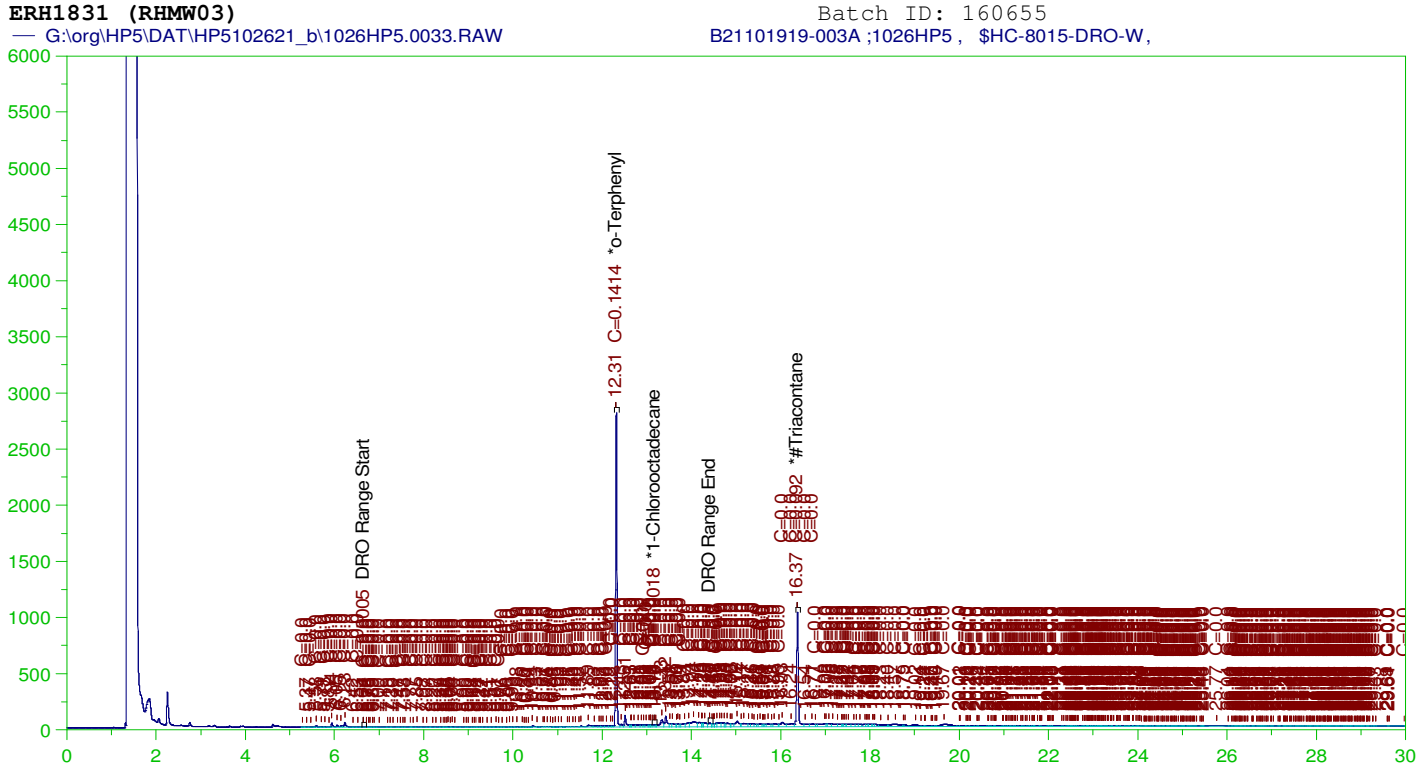
Sample Name: DCM-Baseline Check-V32
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0032.RAW
Date & Time Acquired: 10/27/2021 6:12:52 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.323 | 200. | .015 | .01 | - |
| *1-Chlorooctadecane | 29.964 | 200. | . | . | - |

DRO Area:255148.4 DRO Amount: 8.661627
TEH Area:463396.4 TEH Amount: 15.7311

**ERH1831 (RHMW03)** Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-003A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0033.RAW
Date & Time Acquired: 10/27/2021 6:56:06 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

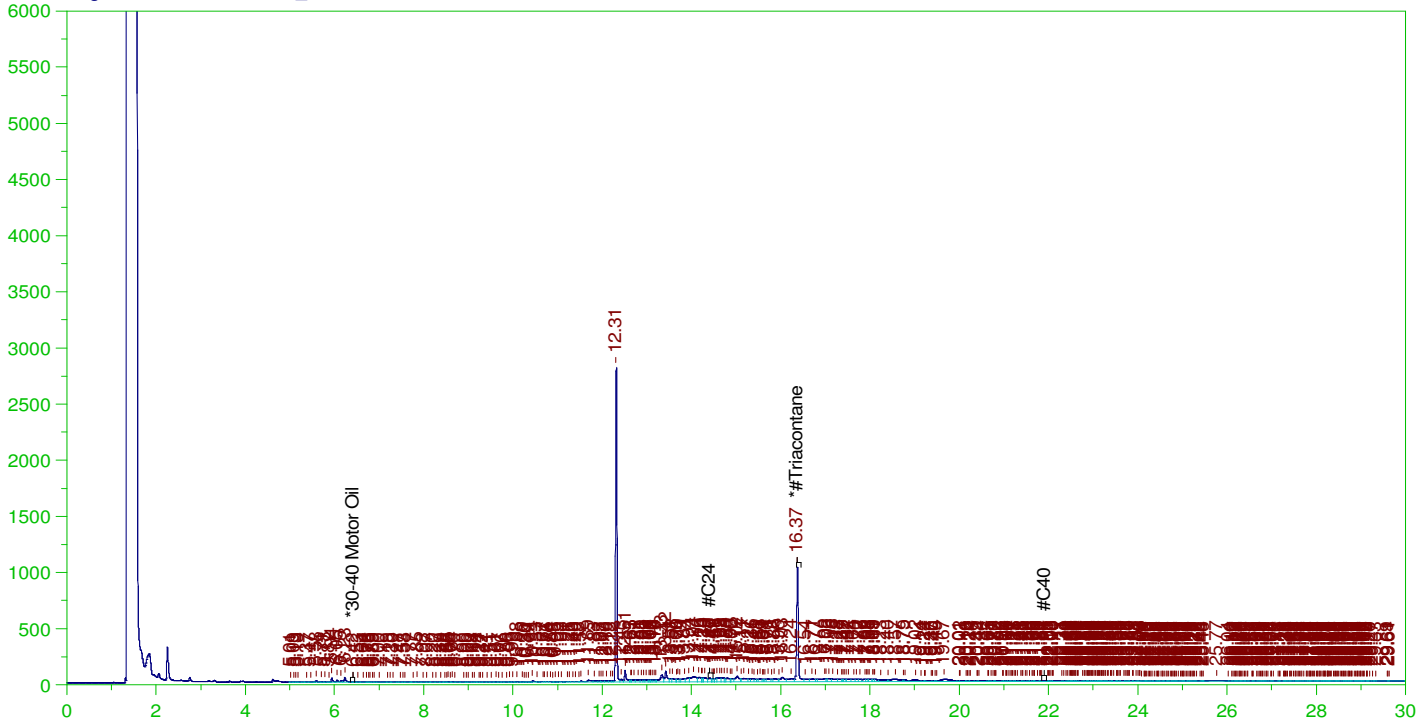
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.312 | .19 | .141 | 74.6 | - |
| *1-Chlorooctadecane | 13.164 | .19 | .002 | .95 | - |
| *#Triacontane | 16.371 | .19 | .092 | 48.51 | - |

DRO Area:4785067 DRO Amount: 0.1539721
TEH Area:1.542876E+07 TEH Amount: 0.4964609

G:\org\HP5\dat\HP5102621_b\Review\033_B21101919-003A_D3_8015-C24-Tri-HU-L%.xls

**ERH1831 (RHMW03)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0033.RAW B21101919-003A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-003A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0033.RAW
Date & Time Acquired: 10/27/2021 6:56:06 AM
Method File: G:\Org\HP5\Methods\D3_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

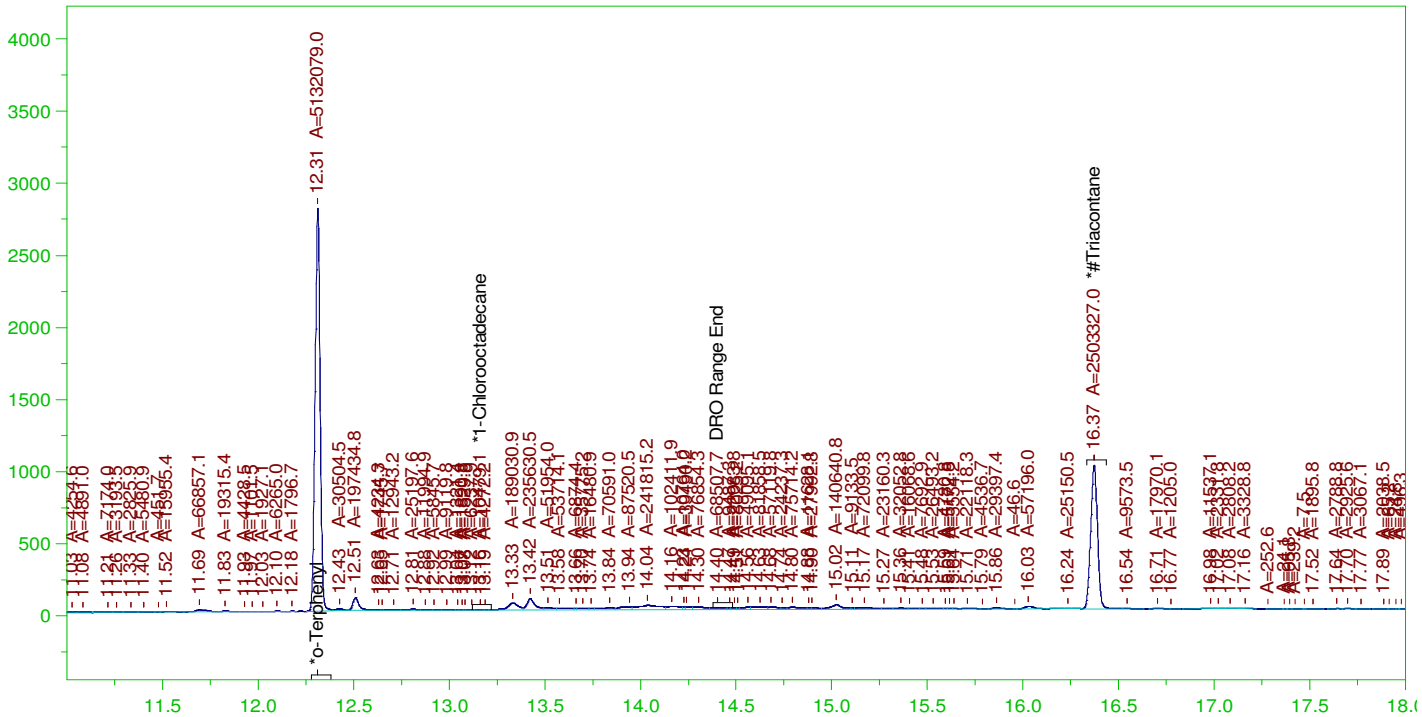
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.371 | .474 | .092 | 19.4 | - |

RRO Area:8567023 RRO AMOUNT: 0.284503

G:\org\HP5\dat\HP5102621_b\Review\033_B21101919-003A_D3_OROS-AB-L%.xls

**ERH1831 (RHMW03)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0033.RAW B21101919-003A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-003A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0033.RAW
Date & Time Acquired: 10/27/2021 6:56:06 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

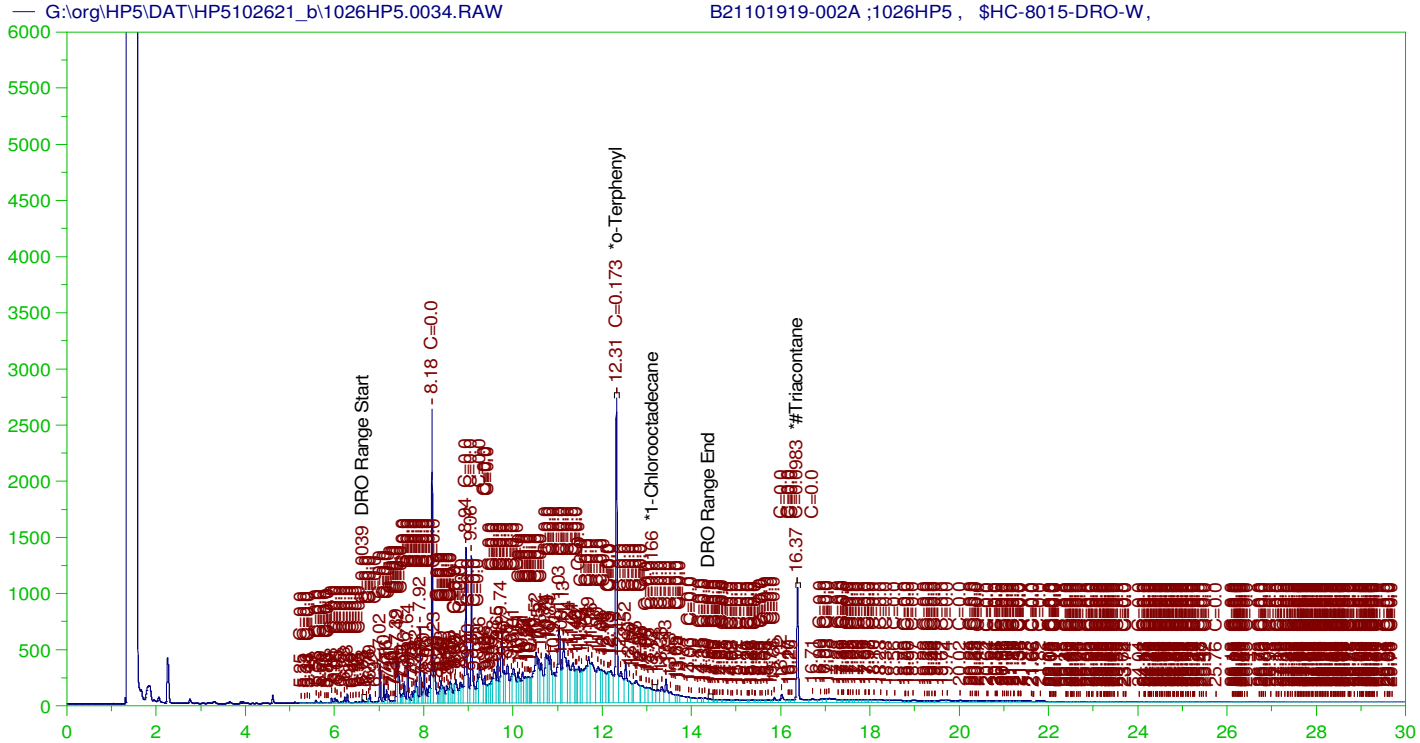
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.312 | .19 | .139 | 73.17 | - |
| *1-Chlorooctadecane | 13.164 | .19 | . | .15 | - |
| *#Triacontane | 16.371 | .19 | .082 | 43.27 | - |

DRO Area:2145818 DRO Amount: 6.904736E-02
TEH Area:4093877 TEH Amount: 0.1317313

G:\org\HP5\dat\HP5102621_b\Review\033_B21101919-003A_DS_8015-C24T-HU-L#.xls

**ERH1828 (RHMW02)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0034.RAW B21101919-002A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-002A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0034.RAW
Date & Time Acquired: 10/27/2021 7:38:56 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

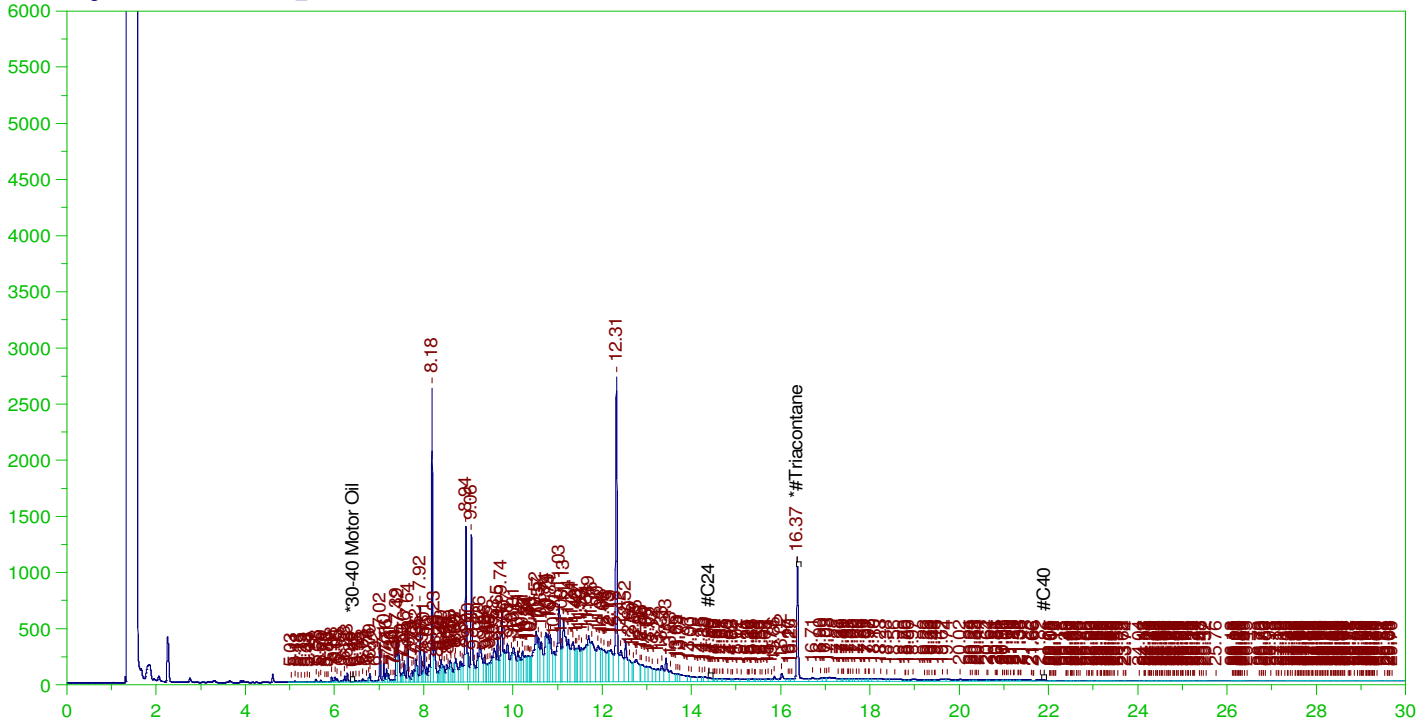
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | .19 | .173 | 90.84 | - |
| *1-Chlorooctadecane | 13.12 | .19 | .017 | 8.72 | - |
| *#Triacontane | 16.372 | .19 | .098 | 51.61 | - |

DRO Area:9.397706E+07 DRO Amount: 3.038359
TEH Area:1.057764E+08 TEH Amount: 3.419842

G:\org\HP5\dat\HP5102621_b\Review\034_B21101919-002A_D3_8015-C24-Tri-HU-L%.xls

**ERH1828 (RHMW02)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0034.RAW B21101919-002A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0034.RAW
Date & Time Acquired: 10/27/2021 7:38:56 AM
Method File: G:\Org\HP5\Methods\D3_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

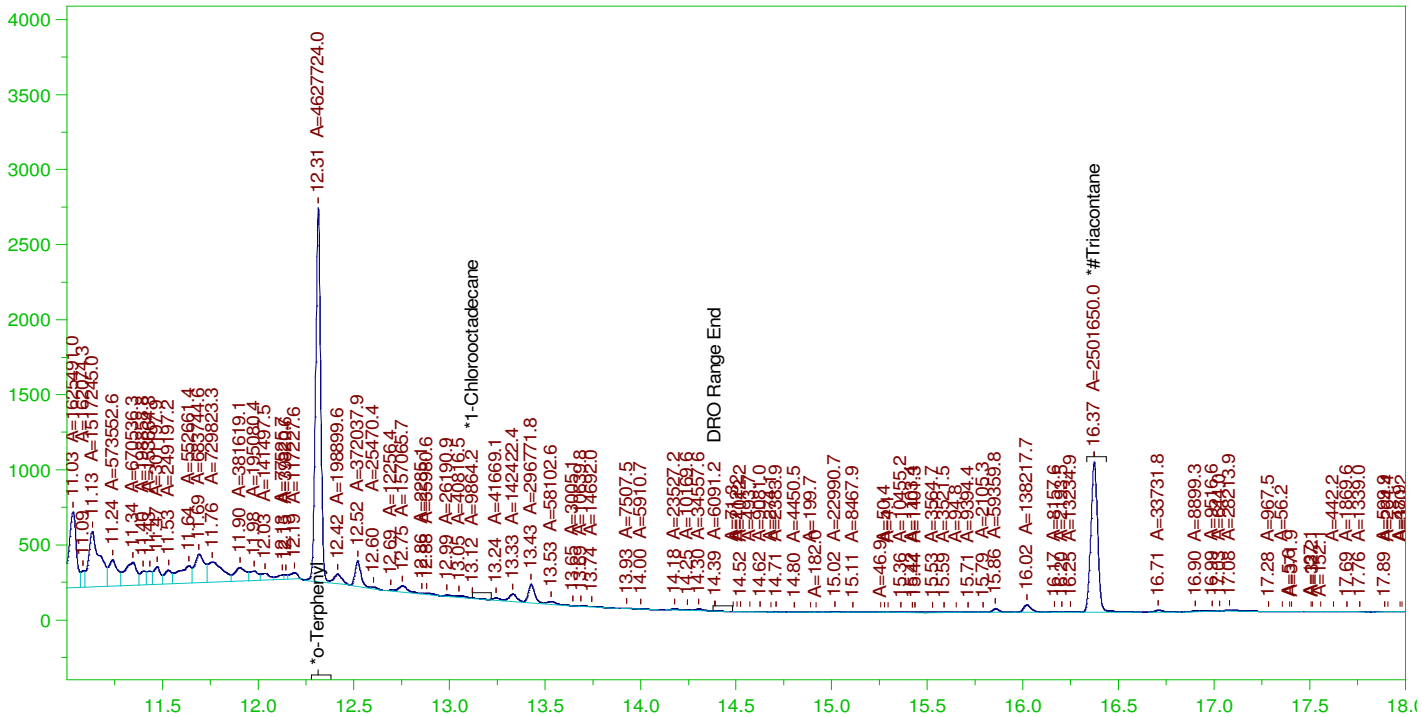
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | .476 | .098 | 20.65 | - |

RRO Area:8995917 RRO AMOUNT: 0.3001688

G:\org\HP5\dat\HP5102621_b\Review\034_B21101919-002A_D3_OROS-AB-L%.xls

**ERH1828 (RHMW02)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0034.RAW B21101919-002A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-002A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0034.RAW
Date & Time Acquired: 10/27/2021 7:38:56 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

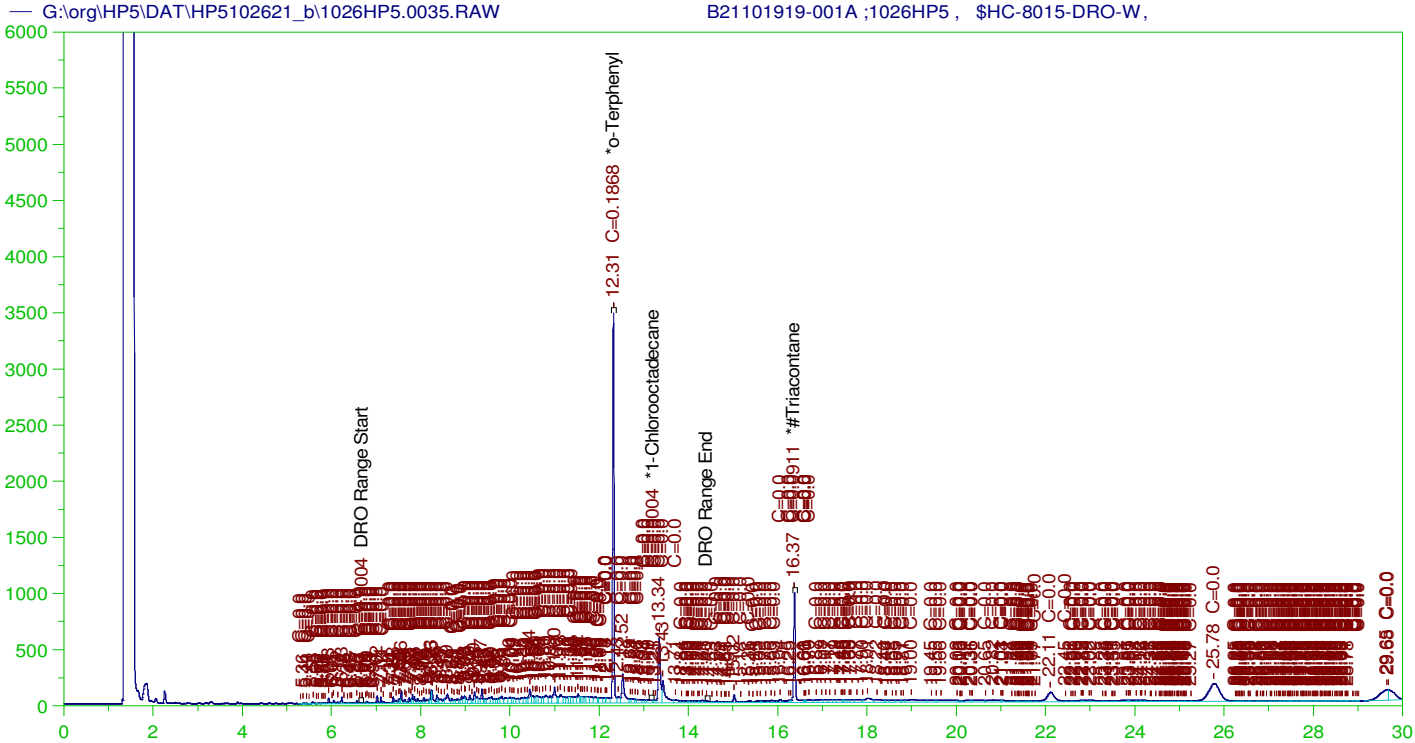
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | .19 | .126 | 65.98 | - |
| *1-Chlorooctadecane | 13.12 | .19 | . | .14 | - |
| *#Triacontane | 16.372 | .19 | .082 | 43.24 | - |

DRO Area:4.352867E+07 DRO Amount: 1.407319
TEH Area:4.536151E+07 TEH Amount: 1.466577

G:\org\HP5\dat\HP5102621_b\Review\034_B21101919-002A_DS_8015-C24T-HU-L#.xls

**ERH1834 (RHMW01R)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0035.RAW B21101919-001A ;1026HP5 , $HC-8015-DRO-W,




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0035.RAW
Date & Time Acquired: 10/27/2021 8:22:06 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

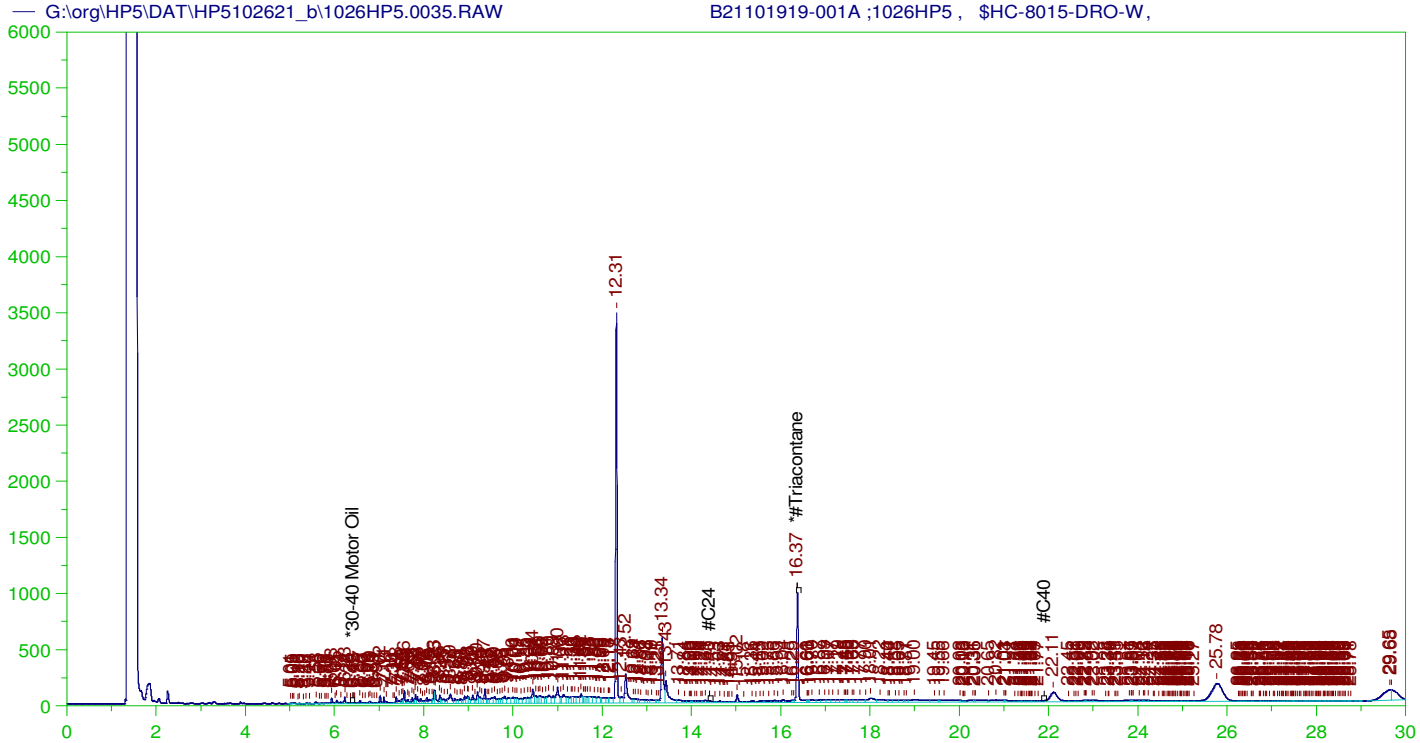
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.314 | .192 | .187 | 97.12 | - |
| *1-Chlorooctadecane | 13.208 | .192 | . | .19 | - |
| *#Triacontane | 16.372 | .192 | .091 | 47.39 | - |

DRO Area:2.062467E+07 DRO Amount: 0.6732249
TEH Area:3.6535E+07 TEH Amount: 1.192566

G:\org\HP5\dat\HP5102621_b\Review\035_B21101919-001A_D3_8015-C24-Tri-HU-L%.xls

**ERH1834 (RHMW01R)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0035.RAW B21101919-001A ;1026HP5 , $HC-8015-DRO-W,




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0035.RAW
Date & Time Acquired: 10/27/2021 8:22:06 AM
Method File: G:\Org\HP5\Methods\D3_OROS-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.95

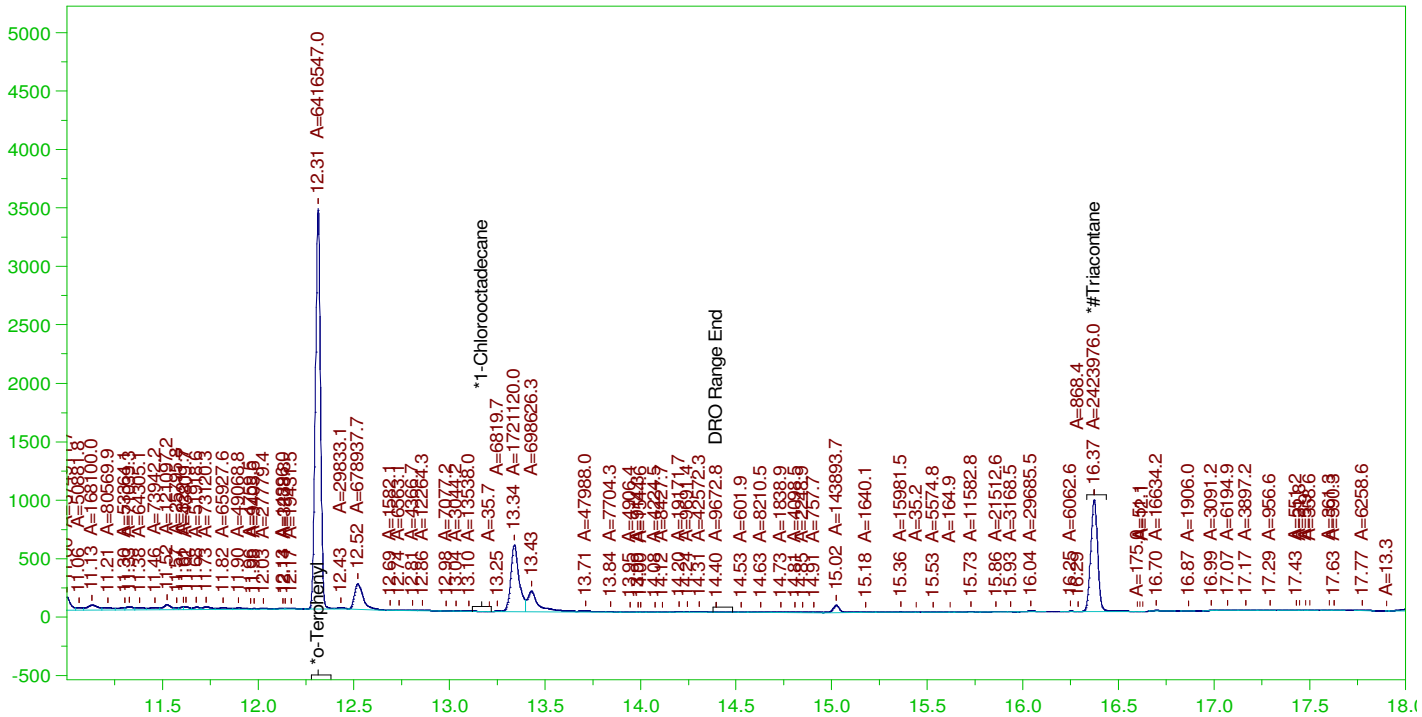
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | .481 | .091 | 18.95 | - |

RRO Area:7397329 RRO AMOUNT: 0.2492017

G:\org\HP5\dat\HP5102621_b\Review\035_B21101919-001A_D3_OROS-AB-L%.xls

**ERH1834 (RHMW01R)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0035.RAW B21101919-001A ;1026HP5 , $HC-8015-DRO-W,



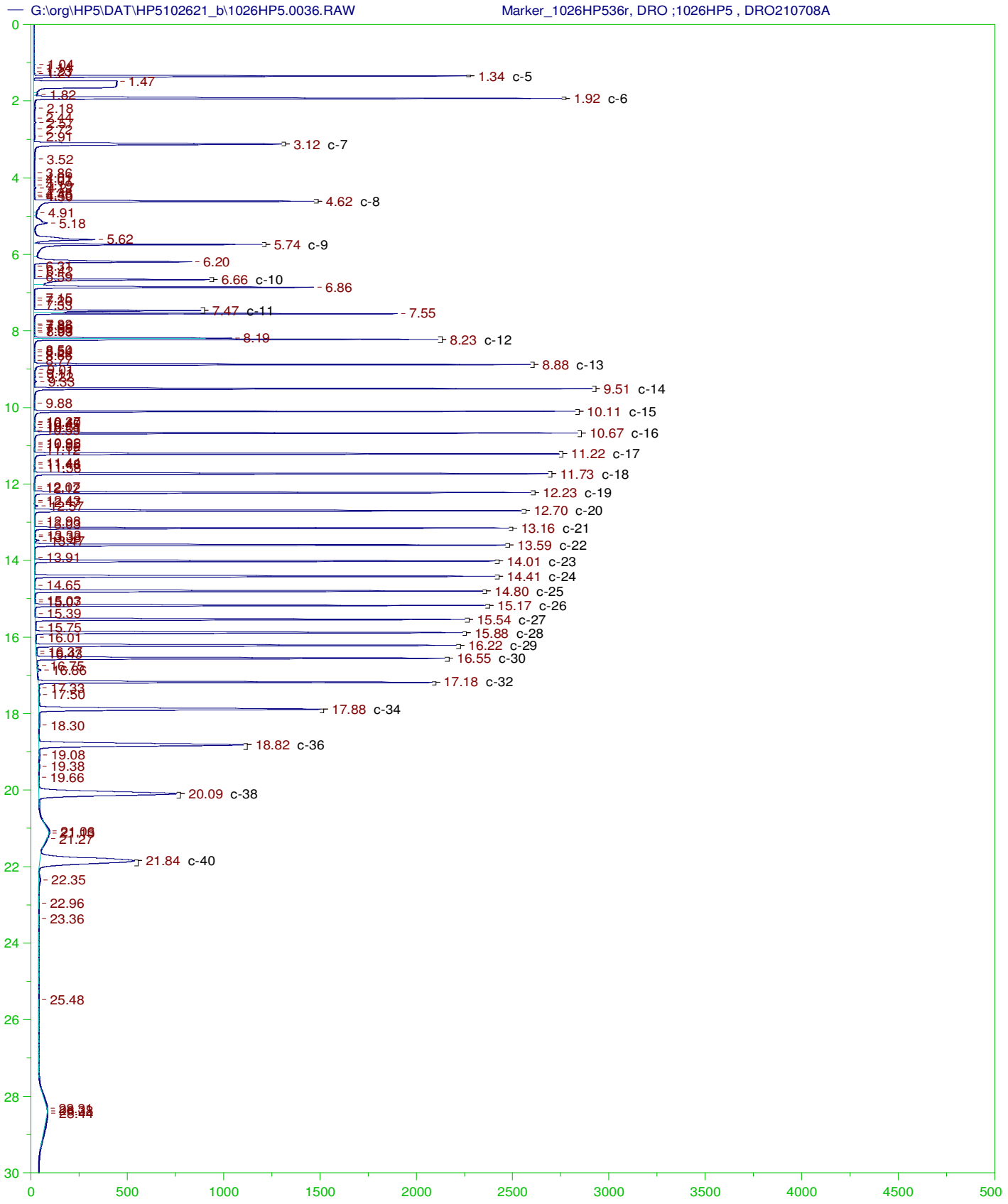

**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0035.RAW
Date & Time Acquired: 10/27/2021 8:22:06 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

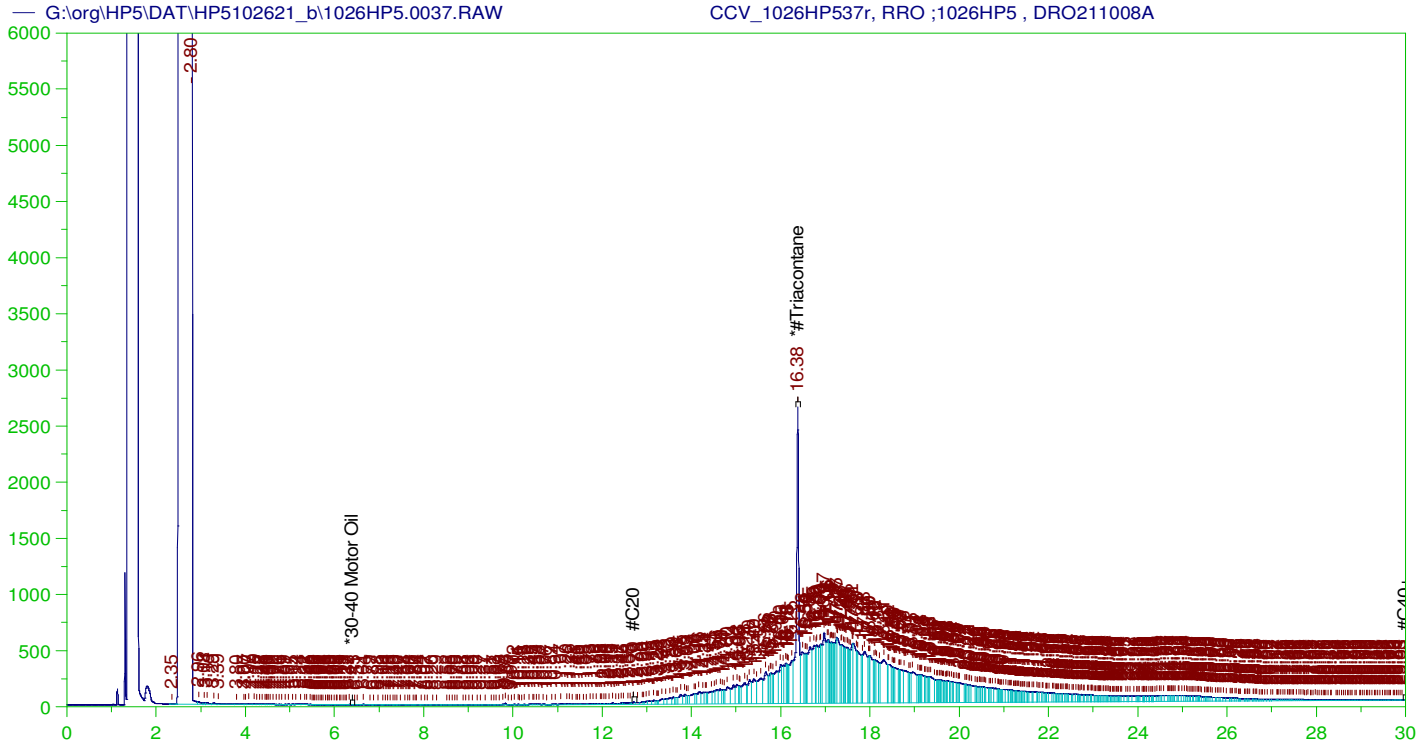
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.314 | .192 | .176 | 91.48 | - |
| *1-Chlorooctadecane | 29.681 | .192 | . | . | - |
| *#Triacontane | 16.372 | .192 | .081 | 41.89 | - |

DRO Area:1.081134E+07 DRO Amount: 0.3529008
TEH Area:1.573321E+07 TEH Amount: 0.5135592




G:\org\HP5\dat\HP5102621_b\Review\036_Marker_1026HP536r_CSC211026.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP537r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0037.RAW
Date & Time Acquired: 10/27/2021 9:48:06 AM
Method File: G:\Org\HP5\Methods\DC_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.379 | 500. | 333.148 | 66.63 | - |

~~RRO~~ TEH(Oil Range)Area:1.370239E+08 ~~RRO~~ TEH(Oil Range)AMOUNT: 4800.713

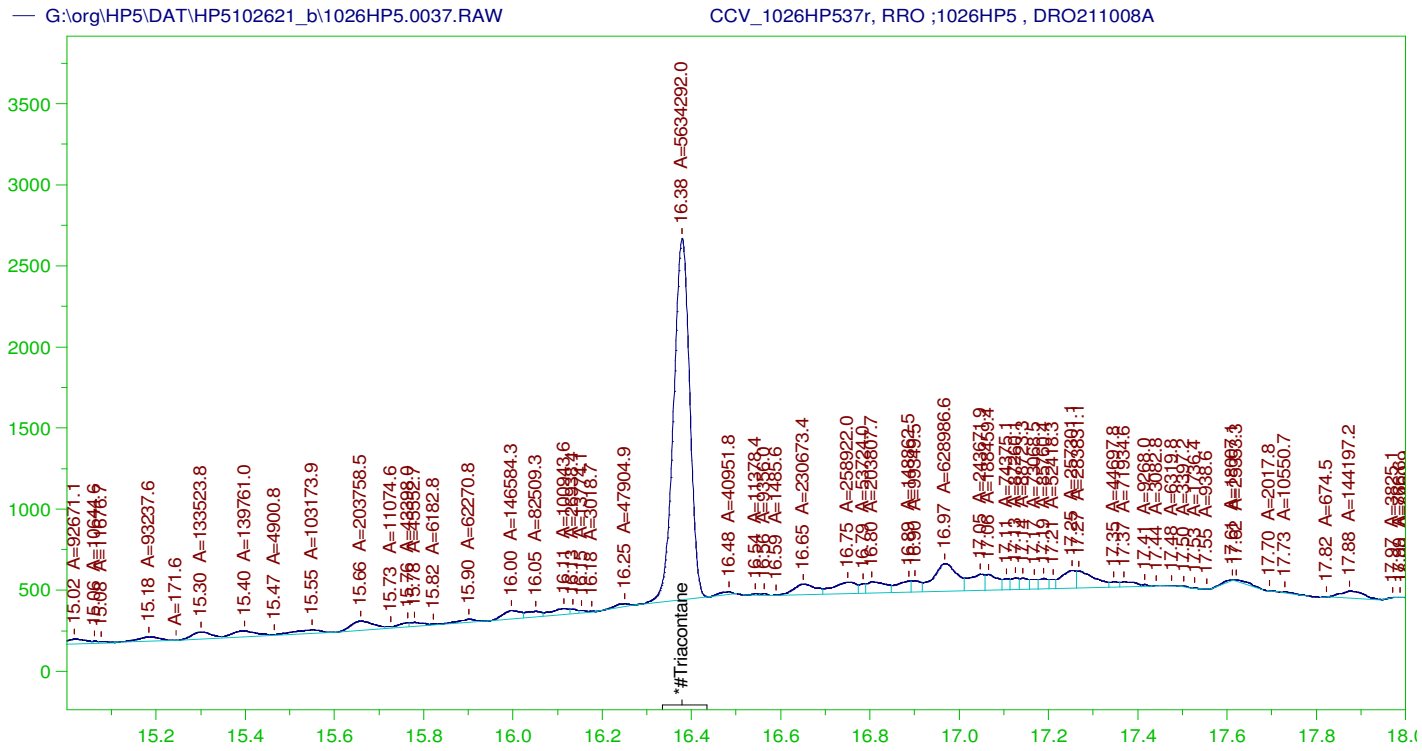
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0037.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.379 | 200. | 333.148 | 166.57 | 75-125 |

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\037_CCV_1026HP537r_DC_ORO-AB-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP537r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0037.RAW
Date & Time Acquired: 10/27/2021 9:48:06 AM
Method File: G:\Org\HP5\Methods\DS_ORO-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

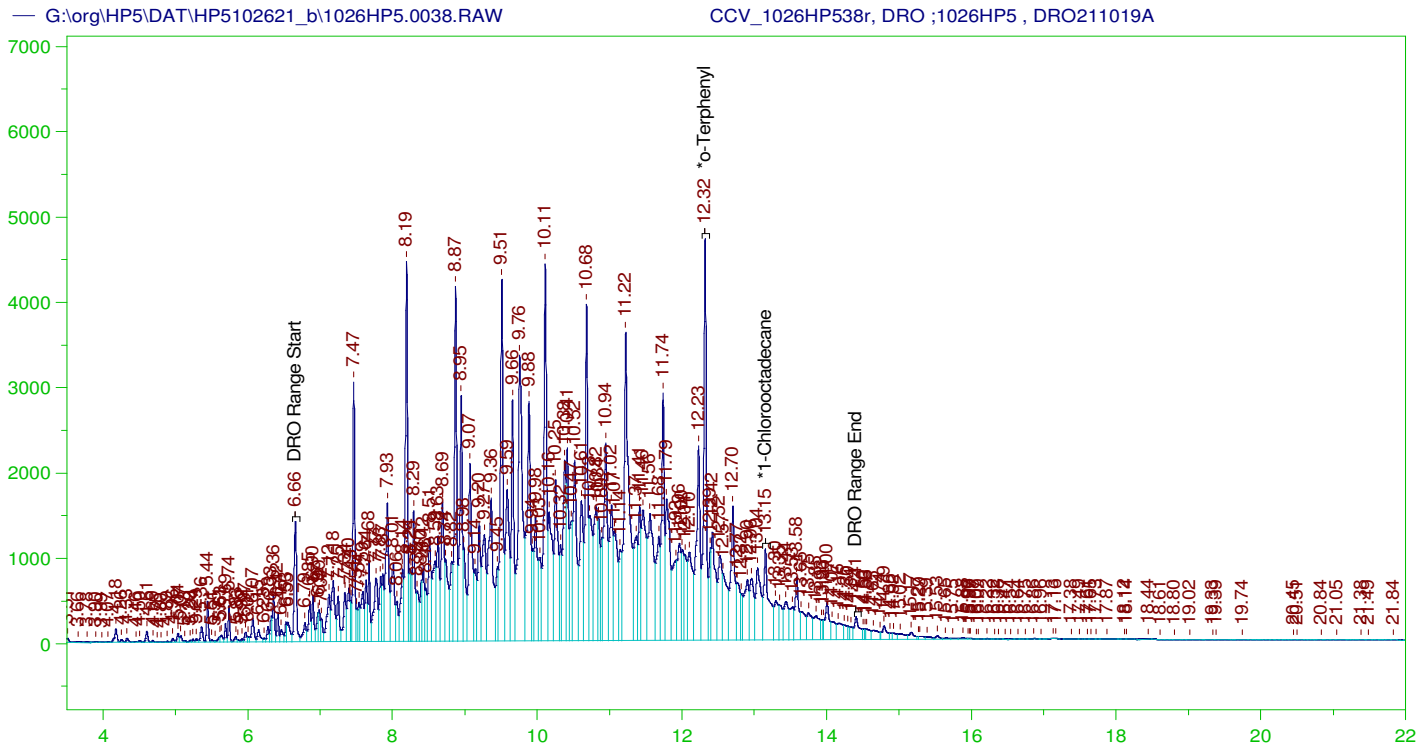
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.379 | 500. | 194.755 | 38.95 | - |

RRO Area:6356761 RRO AMOUNT: 222.7128

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0037.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.379 | 200. | 194.755 | 97.38 | 75-125 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP538r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0038.RAW
Date & Time Acquired: 10/27/2021 10:31:08 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HU-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.321 | 200. | 339.994 | 170. | - |
| *1-Chlorooctadecane | 13.152 | 200. | 148.714 | 74.36 | - |

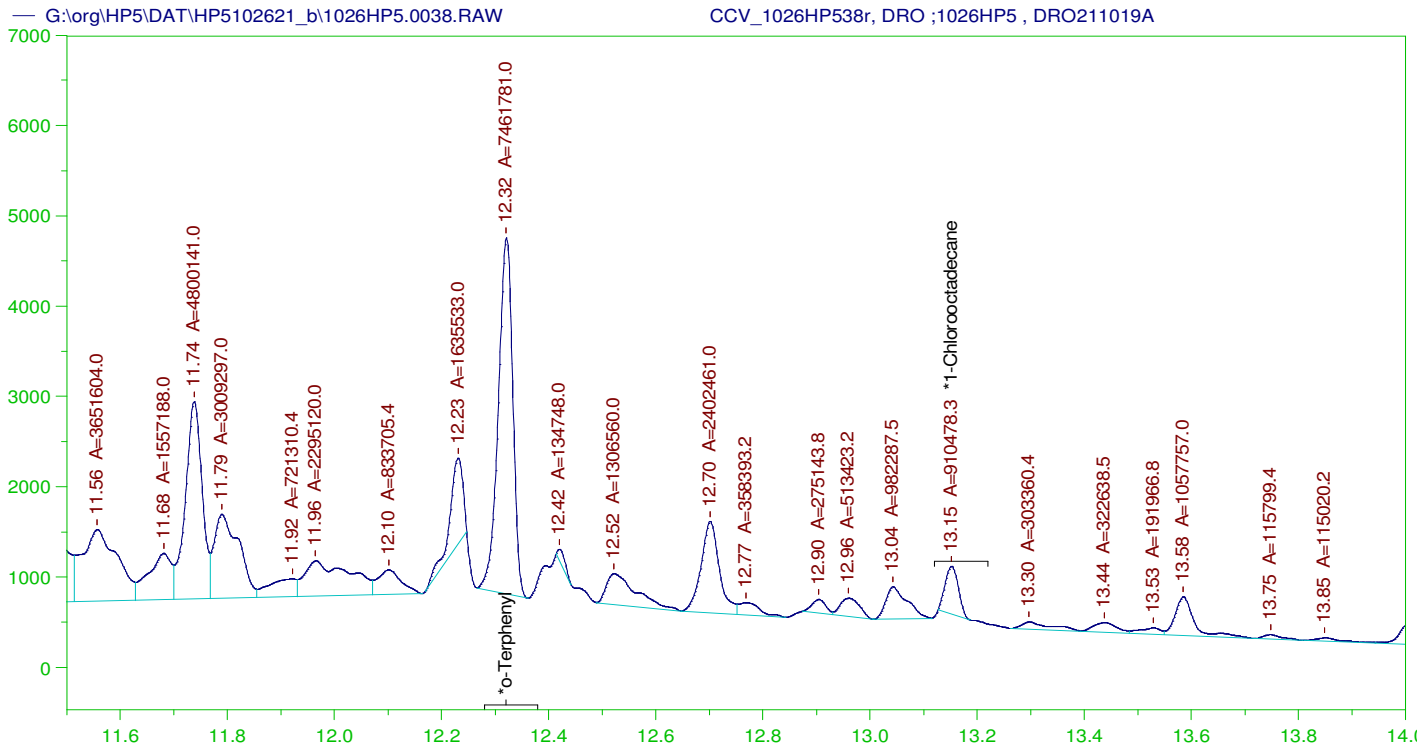
DRO Area:4.309419E+08 DRO Amount: 14629.36
TEH Area:4.463692E+08 TEH Amount: 15153.07

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0038.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15153.07 | 101.02 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.321 | 200. | 339.994 | 170. | 85-115 |
| *1-Chlorooctadecane | 13.152 | 200. | 148.714 | 74.36 | 85-115 |

G:\org\HP5\dat\HP5102621_b\Review\038_CCV_1026HP538r_DC_8015-C24-HU-L%.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP538r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0038.RAW
Date & Time Acquired: 10/27/2021 10:31:08 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.321 | 200. | 212.761 | 106.38 | - |
| *1-Chlorooctadecane | 13.152 | 200. | 25.961 | 12.98 | - |

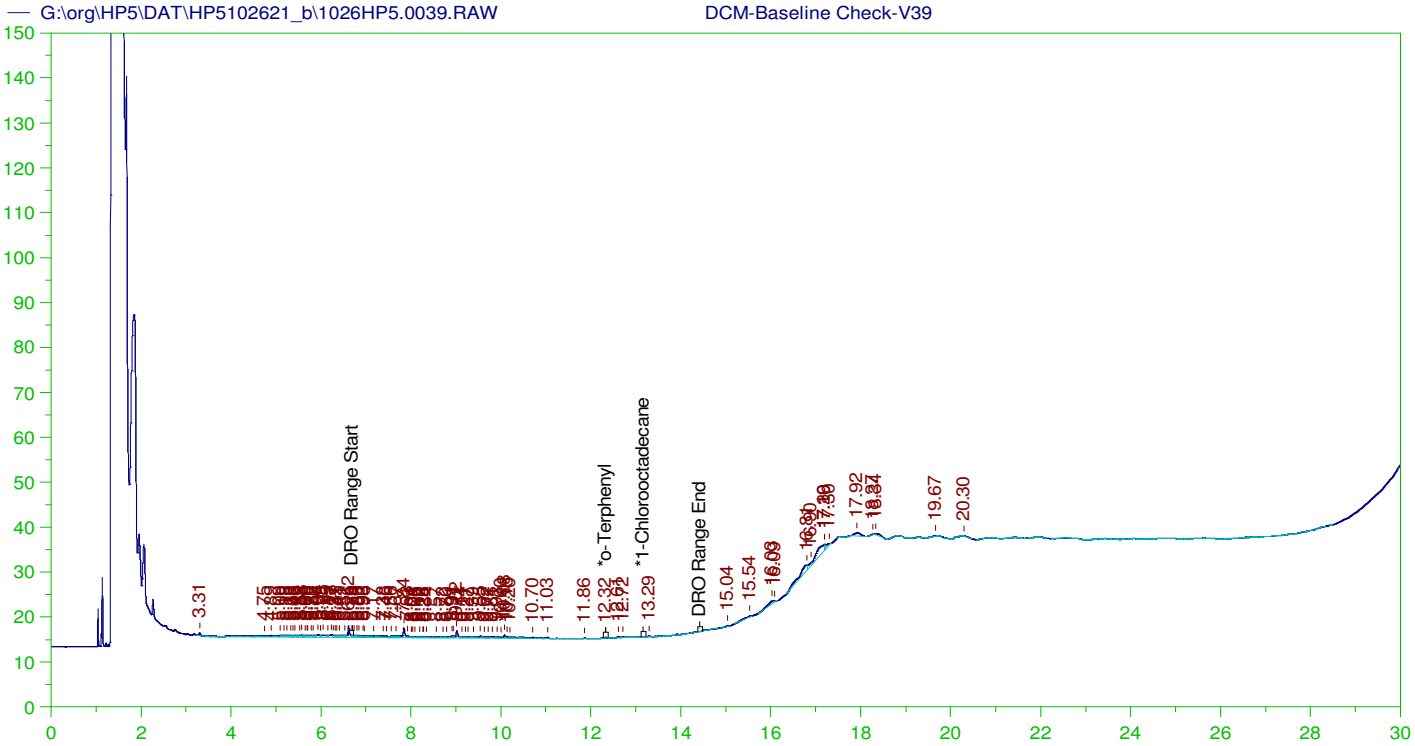
DRO Area:2.439874E+08 DRO Amount: 8282.74
TEH Area:2.541463E+08 TEH Amount: 8627.607

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0038.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8627.61 | 57.52 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.321 | 200. | 212.761 | 106.38 | 85-115 |
| *1-Chlorooctadecane | 13.152 | 200. | 25.961 | 12.98 | 85-115 |

G:\org\HP5\dat\HP5102621_b\Review\038_CCV_1026HP538r_DS_8015-area-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

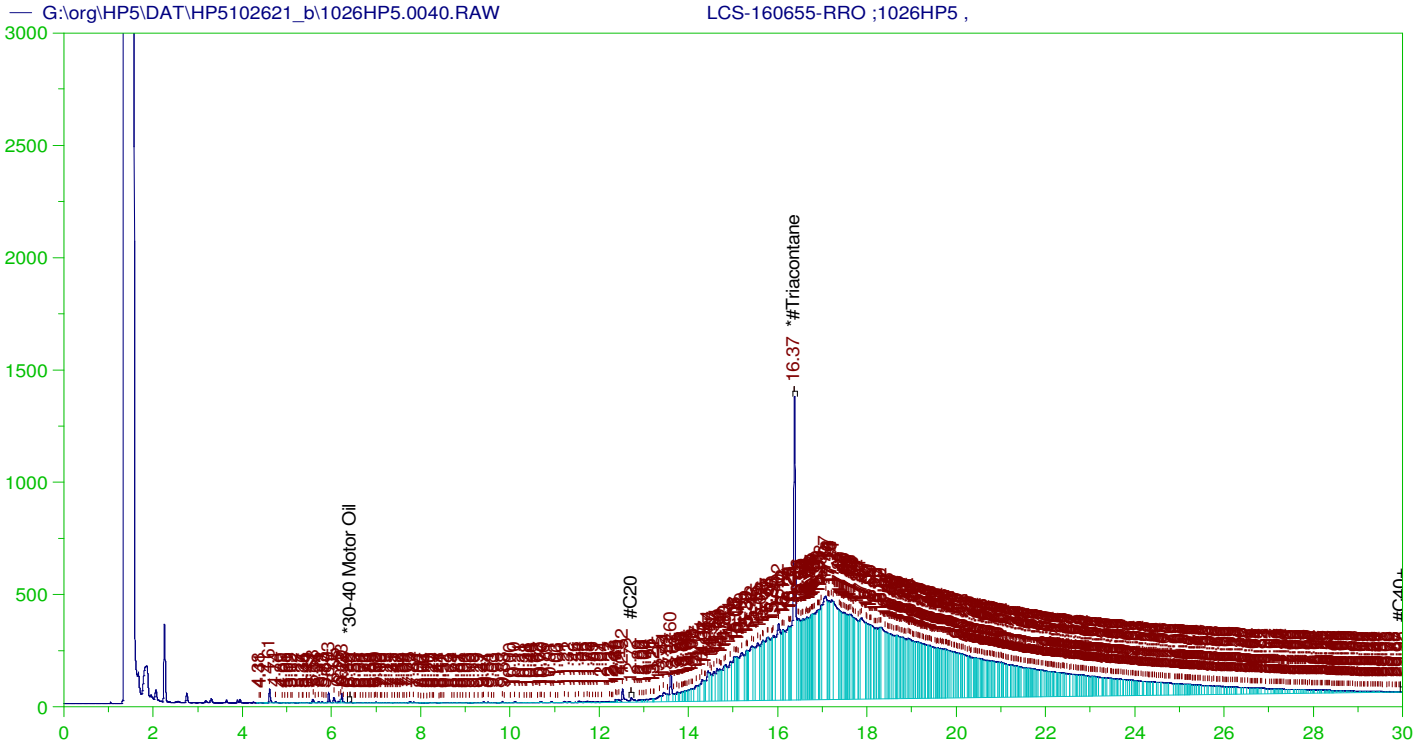
Sample Name: DCM-Baseline Check-V39
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0039.RAW
Date & Time Acquired: 10/27/2021 11:13:57 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---|---|---|---|---|
| *o-Terphenyl | 12.322 | 200. | .016 | .01 - |
| *1-Chlorooctadecane | 28.475 | 200. | . | . - |

DRO Area:87516.06 DRO Amount: 2.970943
TEH Area:230499.6 TEH Amount: 7.824864

G:\org\HP5\dat\HP5102621_b\Review\039_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: LCS-160655-RRO ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0040.RAW
Date & Time Acquired: 10/27/2021 11:56:46 AM
Method File: G:\Org\HP5\Methods\D3_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

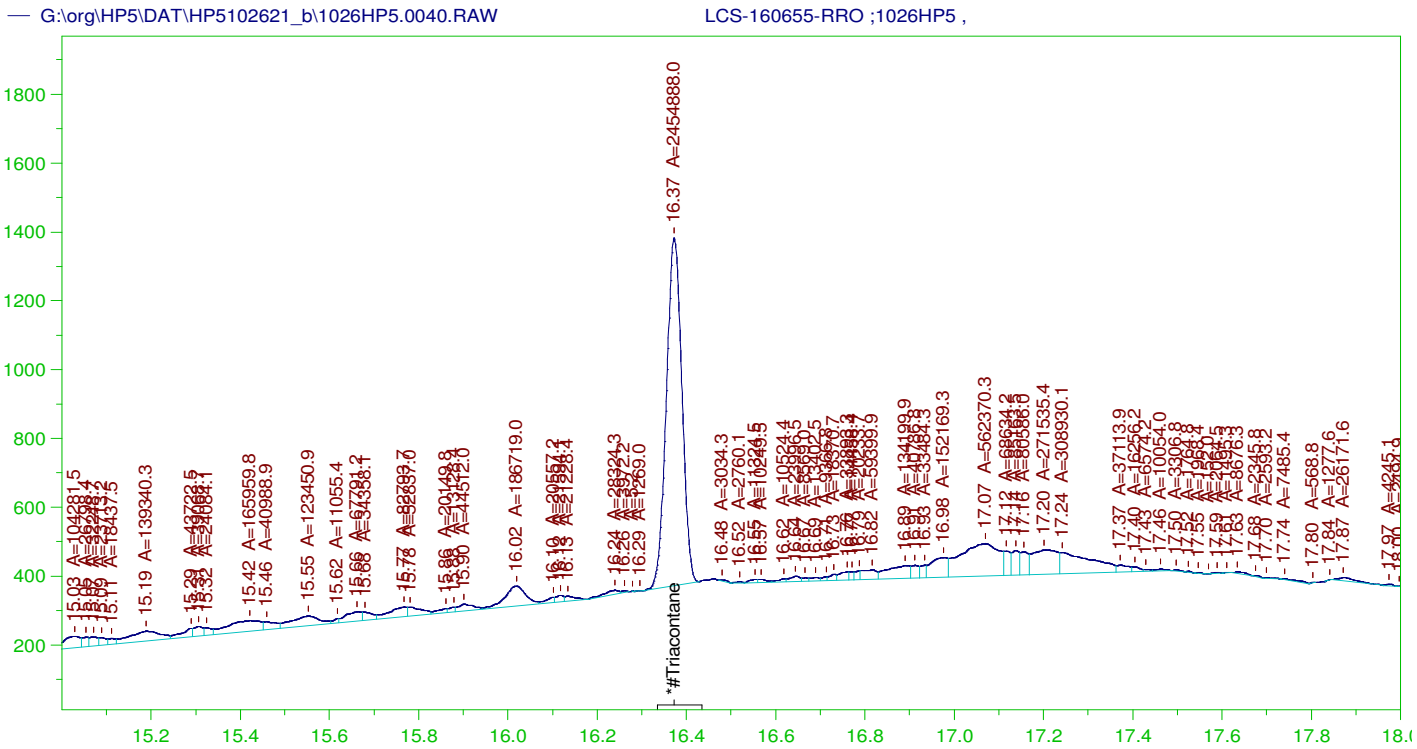
Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | .5 | .173 | 34.54 | - |

~~RRO~~ TEH(Oil Range)Area:1.346359E+08 ~~RRO~~ TEH(Oil Range)AMOUNT: 4.717048

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\040_LCS-160655-RRO_D3_ORO-AB-L%.xls



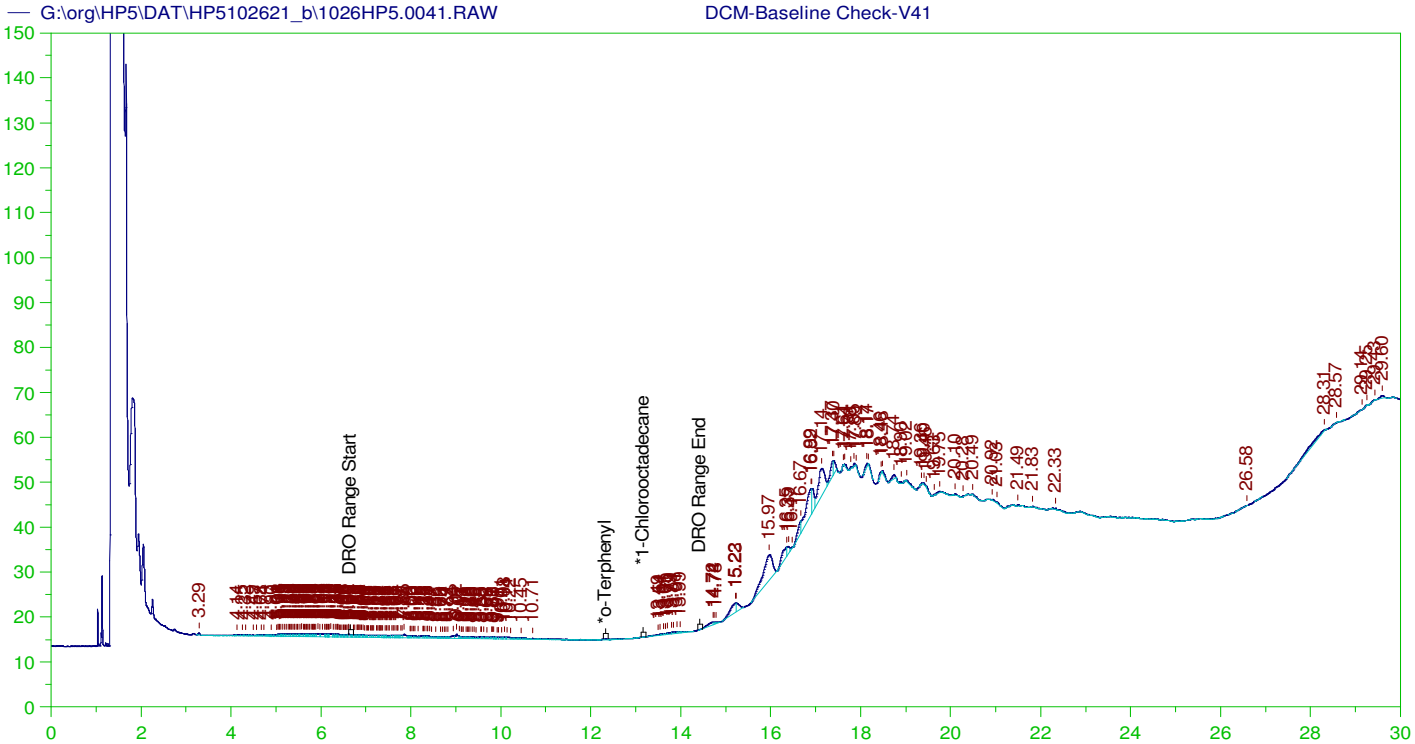

**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: LCS-160655-RRO ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0040.RAW
Date & Time Acquired: 10/27/2021 11:56:46 AM
Method File: G:\Org\HP5\Methods\DS_ORO-102640-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | .5 | .085 | 16.97 | - |

RRO Area:4975831 RRO AMOUNT: 0.1743311




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

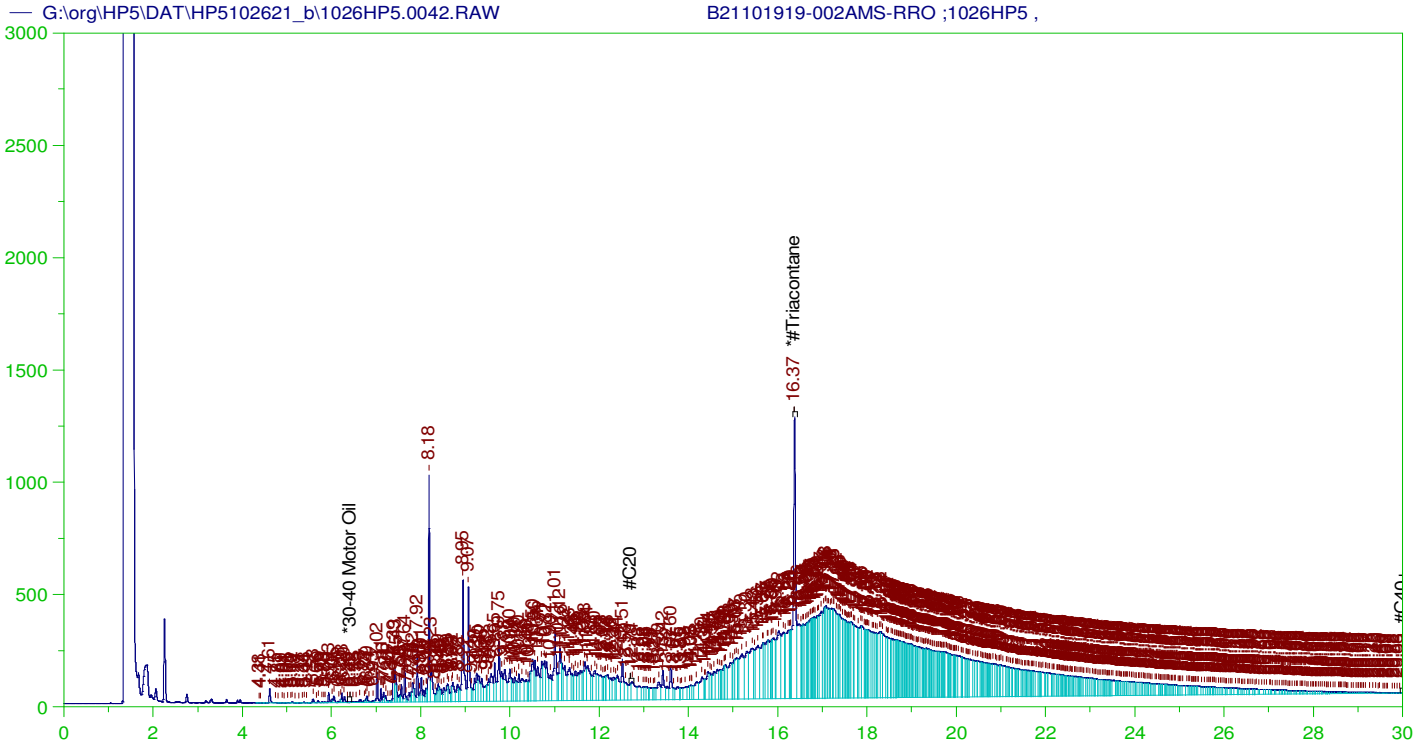
Sample Name: DCM-Baseline Check-V41
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0041.RAW
Date & Time Acquired: 10/27/2021 12:39:30 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.835 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.835 | 200. | . | . | - |

DRO Area:120871.3 DRO Amount: 4.103267
TEH Area:621485.3 TEH Amount: 21.09781

G:\org\HP5\dat\HP5102621_b\Review\041_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002AMS-RRO ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0042.RAW
Date & Time Acquired: 10/27/2021 1:22:08 PM
Method File: G:\Org\HP5\Methods\D3_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

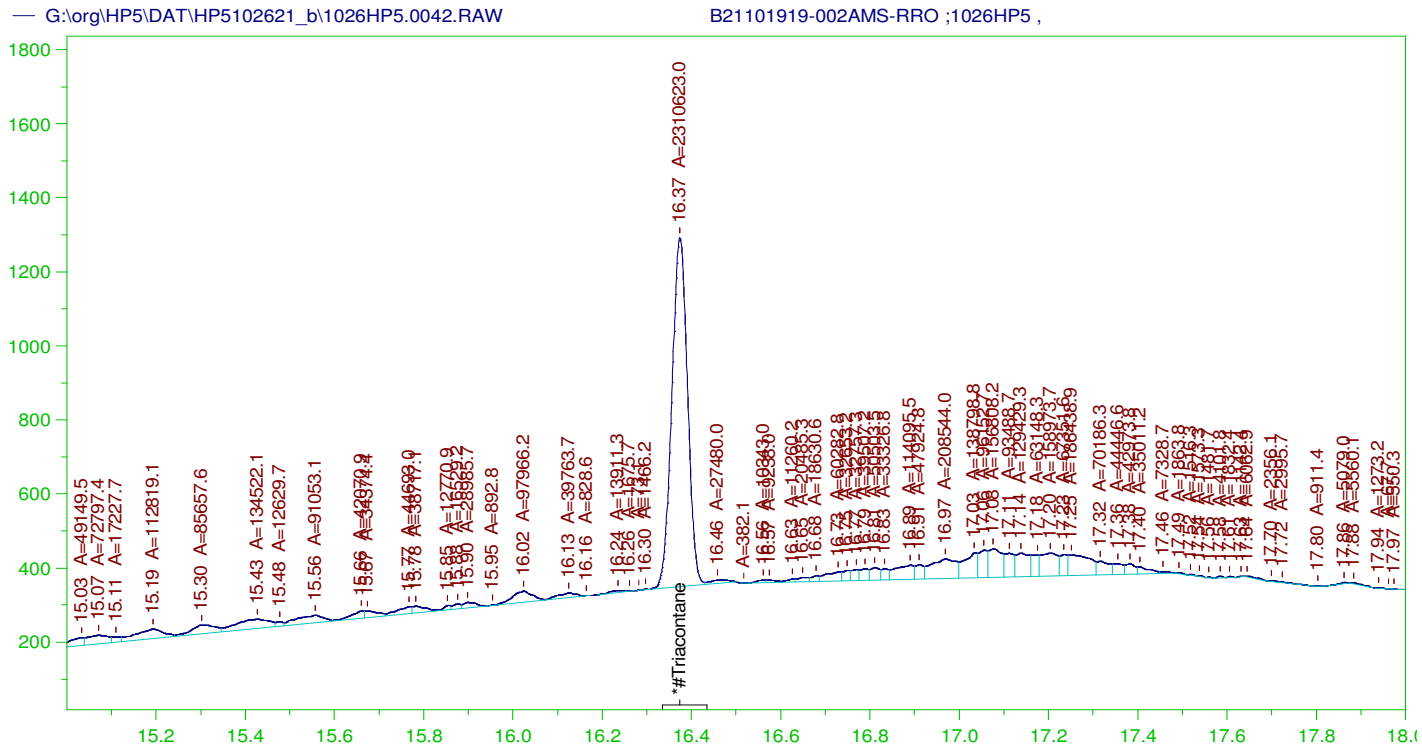
Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.374 | 1. | .322 | 32.17 | - |

~~RRO~~ TEH(Oil Range) Area:1.276437E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 8.944143

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\042_B21101919-002AMS-RRO_D3_ORO-AB-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

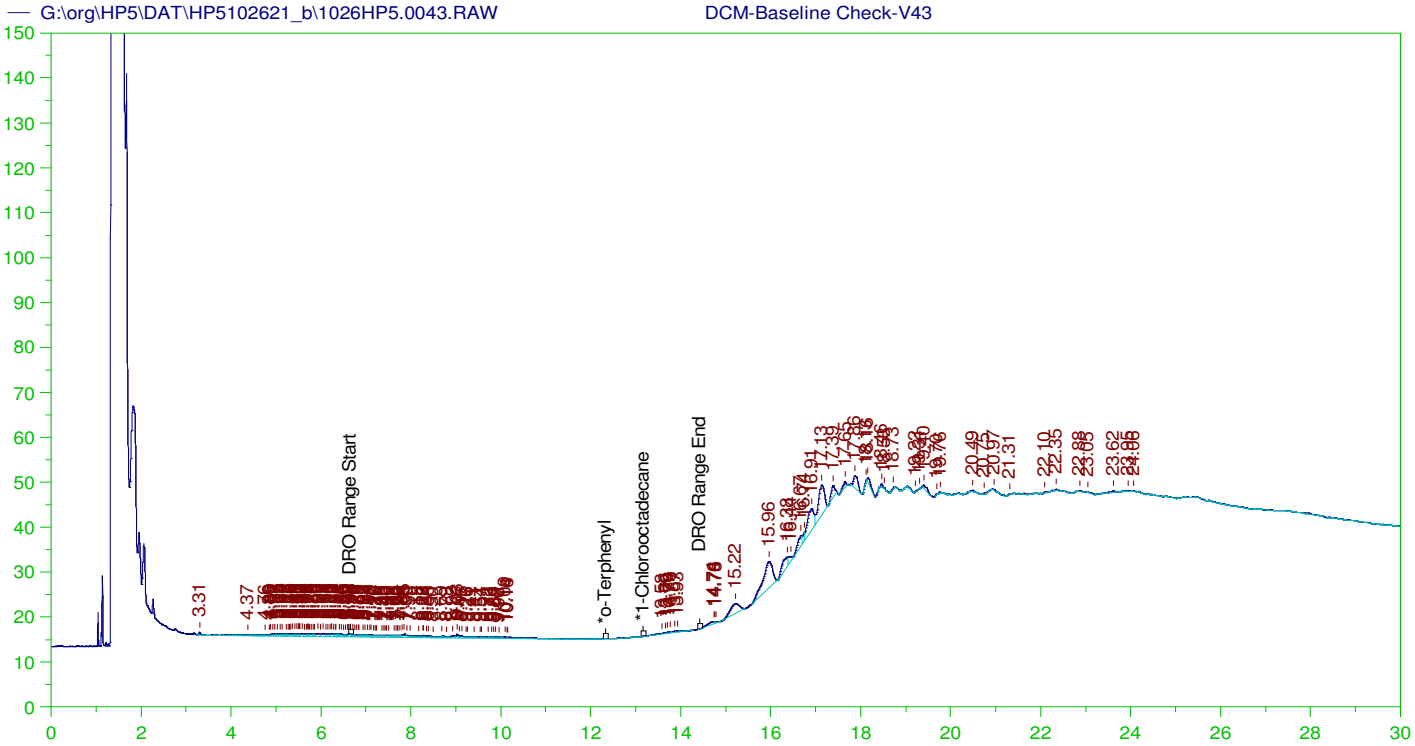
Sample Name: B21101919-002AMS-RRO ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0042.RAW
Date & Time Acquired: 10/27/2021 1:22:08 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.374 | 1. | .16 | 15.97 | - |

RRO Area:4524940 RRO AMOUNT: 0.3170678

G:\org\HP5\dat\HP5102621_b\Review\042_B21101919-002AMS-RRO_DS_ORO-AB-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

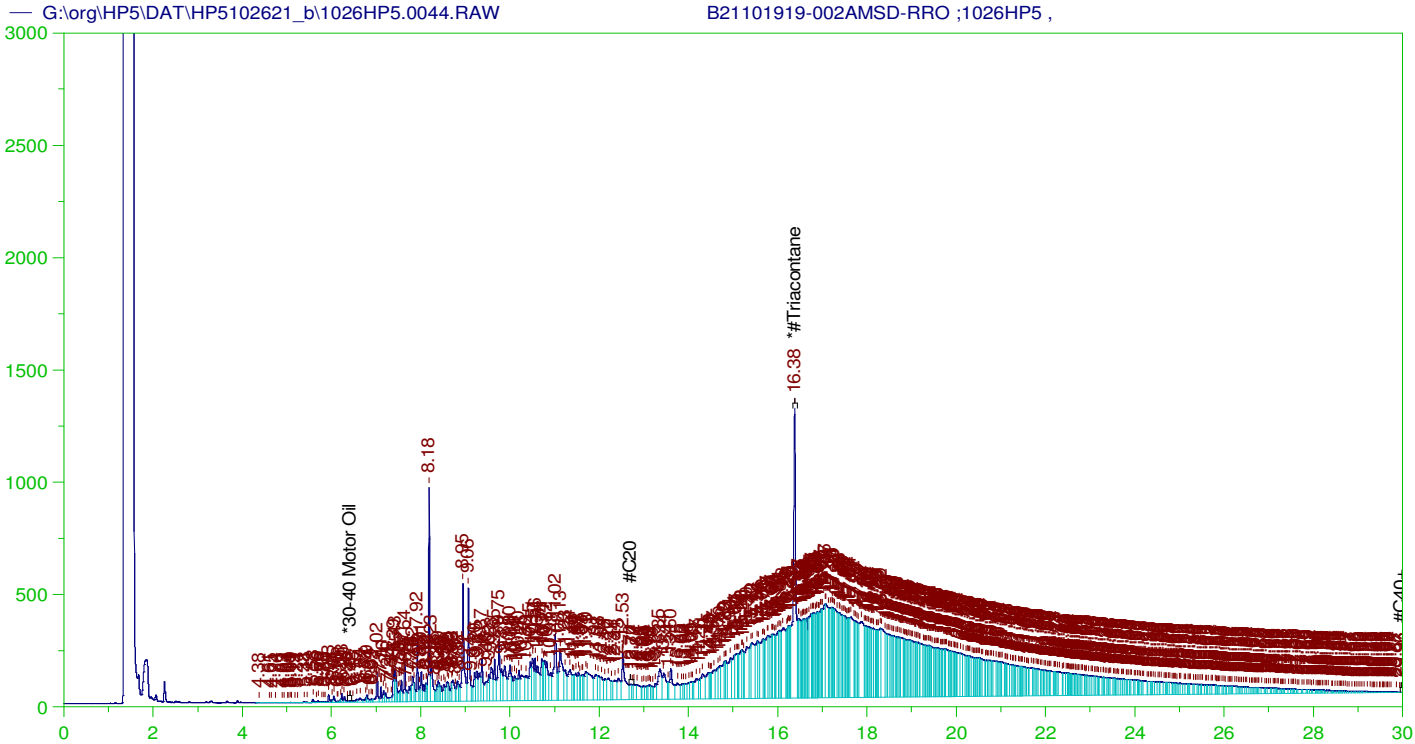
Sample Name: DCM-Baseline Check-V43
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0043.RAW
Date & Time Acquired: 10/27/2021 2:04:40 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.945 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.945 | 200. | . | . | - |

DRO Area:98999.17 DRO Amount: 3.360765
TEH Area:556176.7 TEH Amount: 18.88076

G:\org\HP5\dat\HP5102621_b\Review\043_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002AMSD-RRO ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0044.RAW
Date & Time Acquired: 10/27/2021 2:47:18 PM
Method File: G:\Org\HP5\Methods\D3_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

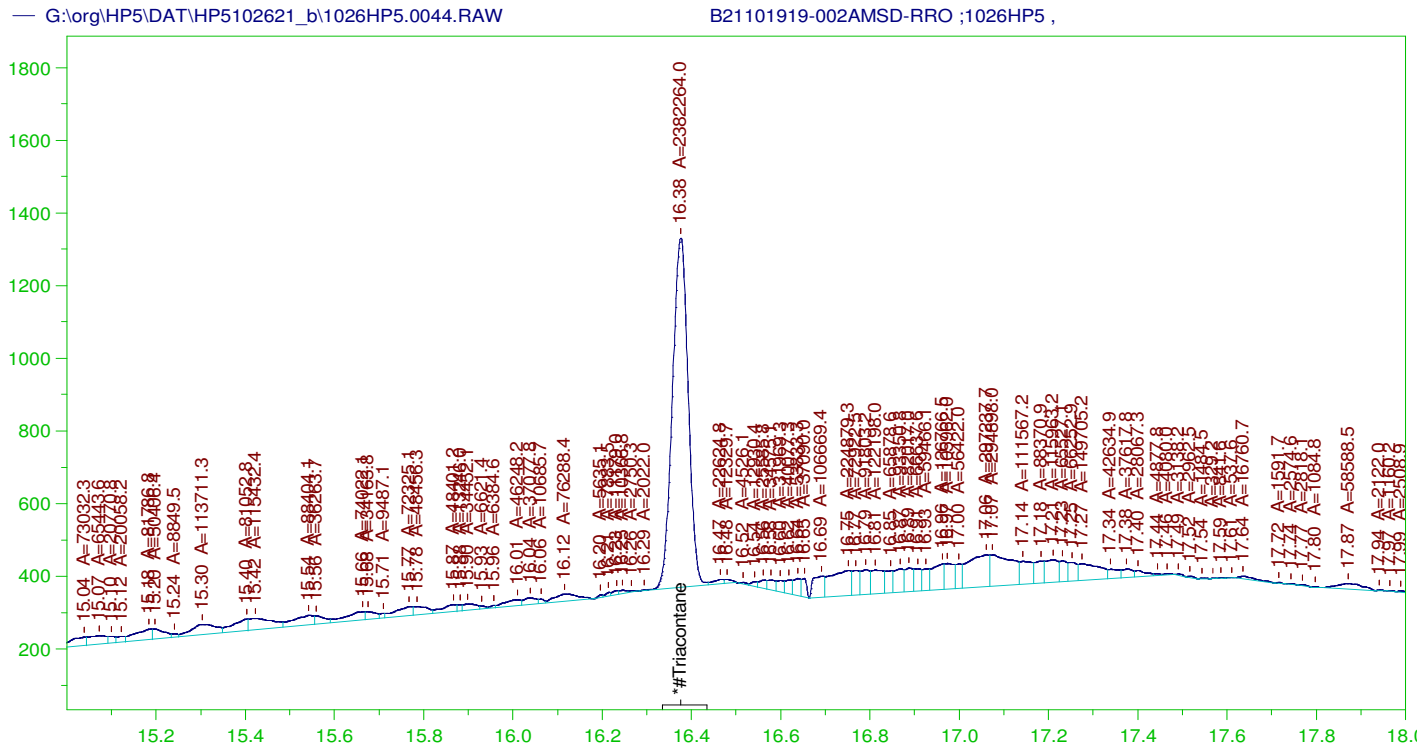
Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.376 | 1. | .355 | 35.48 | - |

~~RRO~~ TEH(Oil Range) Area:1.357296E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 9.510734

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\044_B21101919-002AMSD-RRO_D3_ORO-AB-L%.xls



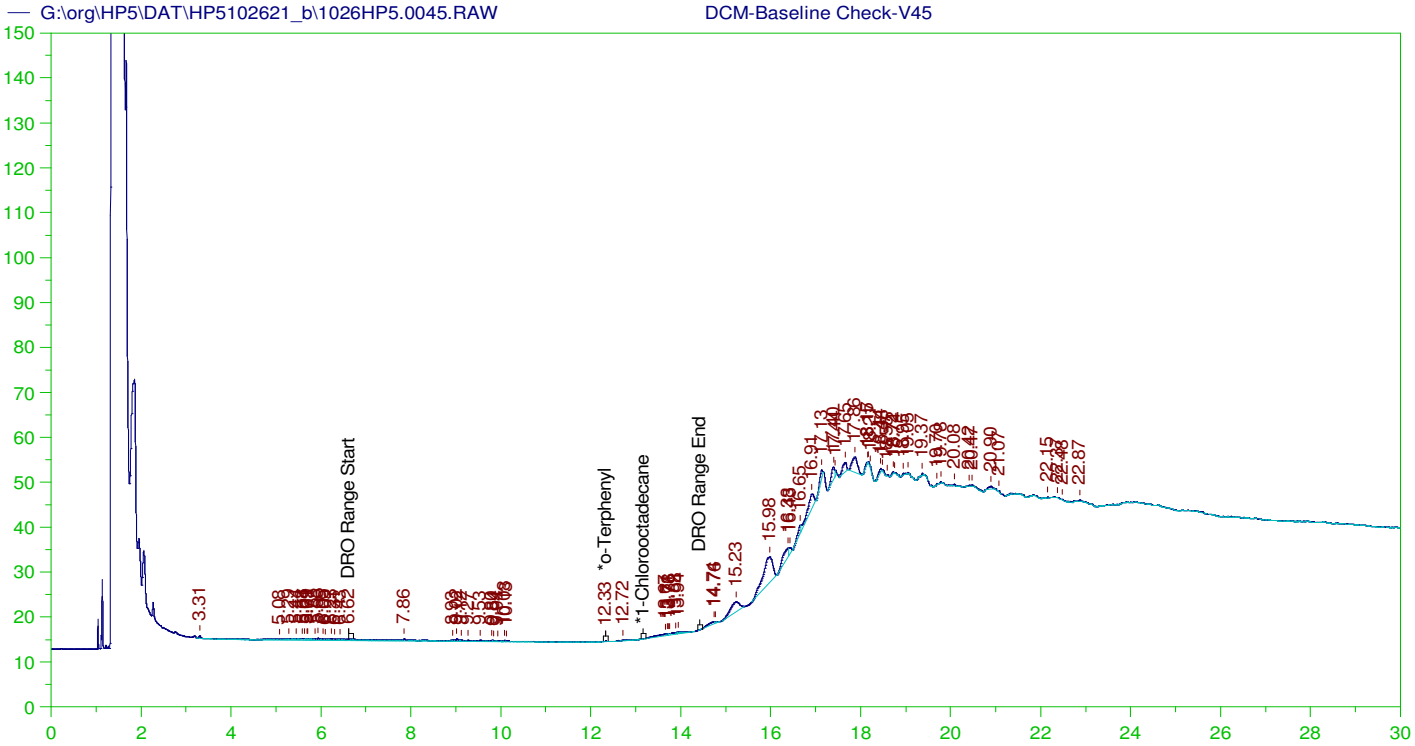

**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002AMSD-RRO ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0044.RAW
Date & Time Acquired: 10/27/2021 2:47:18 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.376 | 1. | .165 | 16.47 | - |

RRO Area:5666889 RRO AMOUNT: 0.3970855




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V45
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0045.RAW
Date & Time Acquired: 10/27/2021 3:29:52 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

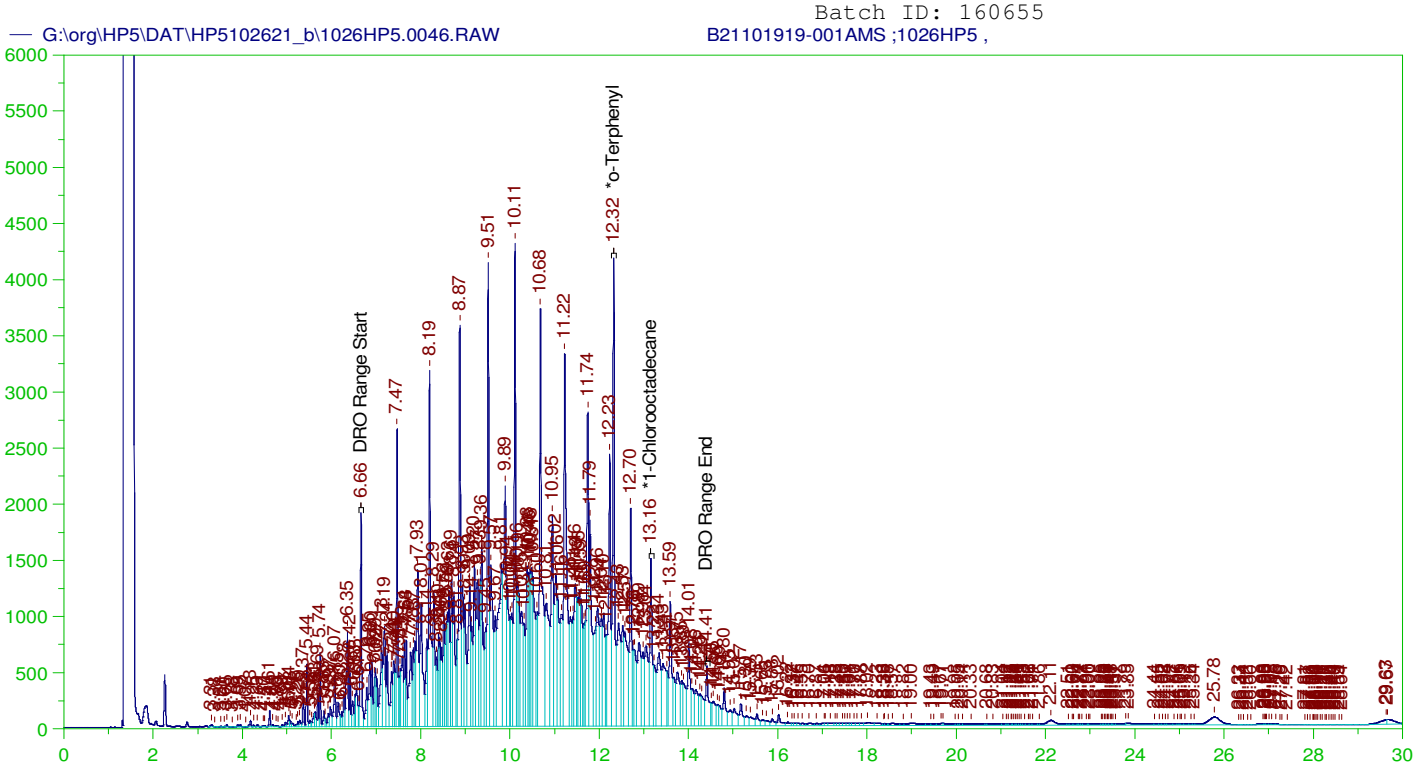
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.328 | 200. | .014 | .01 | - |
| *1-Chlorooctadecane | 29.981 | 200. | . | . | - |

DRO Area:63195.93 DRO Amount: 2.145338
TEH Area:425455.6 TEH Amount: 14.44311

G:\org\HP5\dat\HP5102621_b\Review\045_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

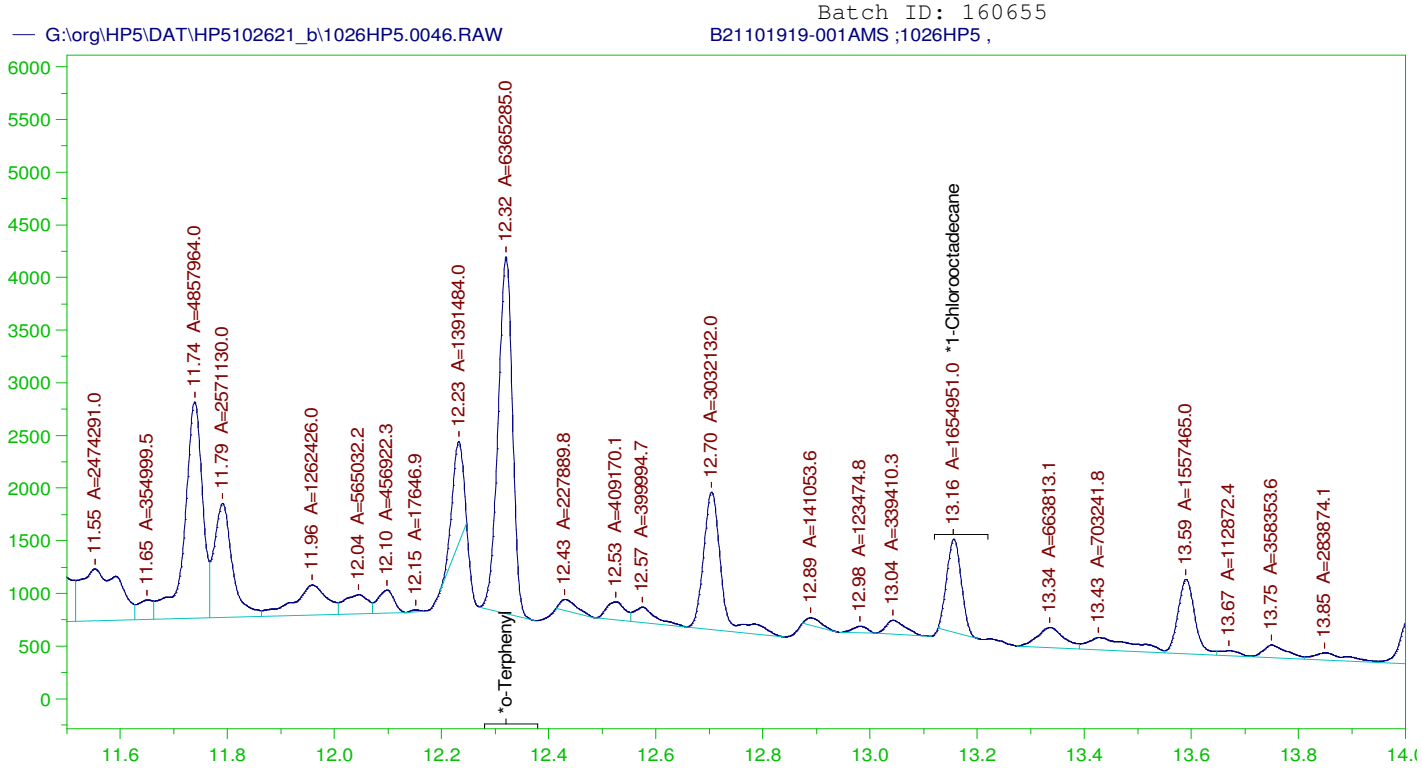
Sample Name: B21101919-001AMS ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0046.RAW
Date & Time Acquired: 10/27/2021 4:12:29 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 530 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.32 | .377 | .61 | 161.53 | - |
| *1-Chlorooctadecane | 13.156 | .377 | .277 | 73.33 | - |

DRO Area:4.034267E+08 DRO Amount: 25.84017
TEH Area:4.394654E+08 TEH Amount: 28.14851

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

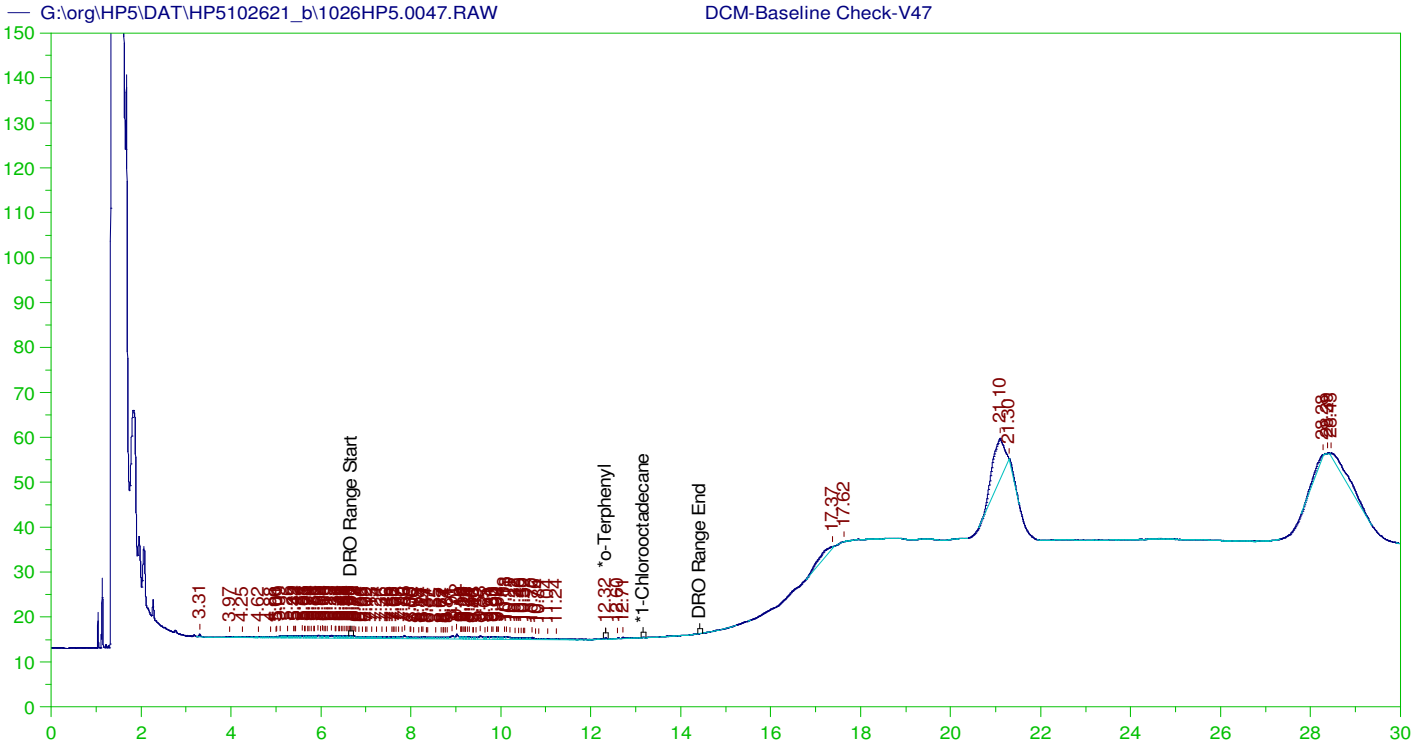
Sample Name: B21101919-001AMS ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0046.RAW
Date & Time Acquired: 10/27/2021 4:12:29 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 530 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.32 | .377 | .342 | 90.75 | - |
| *1-Chlorooctadecane | 13.156 | .377 | .089 | 23.59 | - |

DRO Area:1.984062E+08 DRO Amount: 12.70825
TEH Area:2.131188E+08 TEH Amount: 13.65062

G:\org\HP5\dat\HP5102621_b\Review\046_B21101919-001AMS_DS_8015-area-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V47
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0047.RAW
Date & Time Acquired: 10/27/2021 4:55:32 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

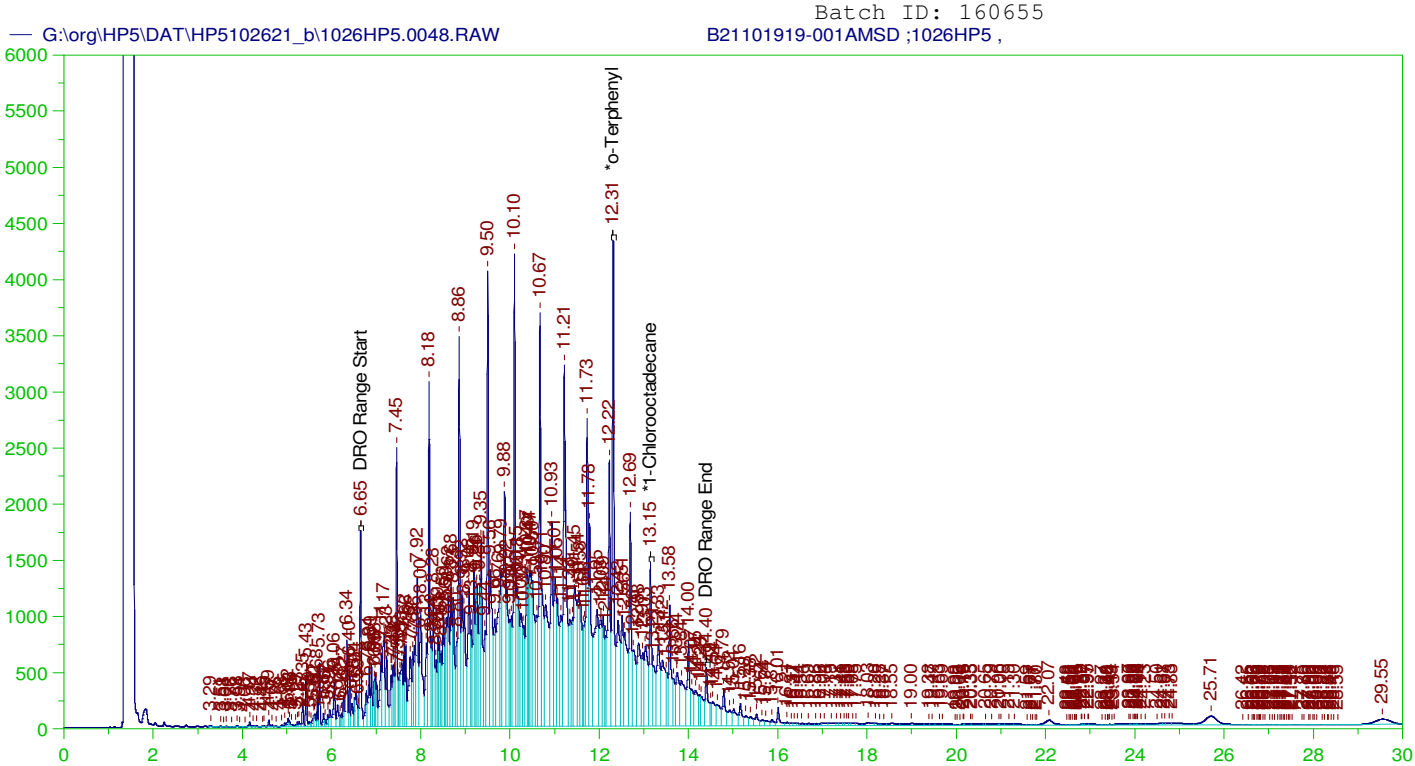
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.325 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.962 | 200. | . | . | - |

DRO Area:107291.8 DRO Amount: 3.642279
TEH Area:490023.1 TEH Amount: 16.63501

G:\org\HP5\dat\HP5102621_b\Review\047_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-001AMSD ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0048.RAW
Date & Time Acquired: 10/27/2021 5:39:04 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 530 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.31 | .377 | .622 | 164.77 | - |
| *1-Chlorooctadecane | 13.147 | .377 | .27 | 71.46 | - |

DRO Area:3.922351E+08 DRO Amount: 25.12333
TEH Area:4.259974E+08 TEH Amount: 27.28586

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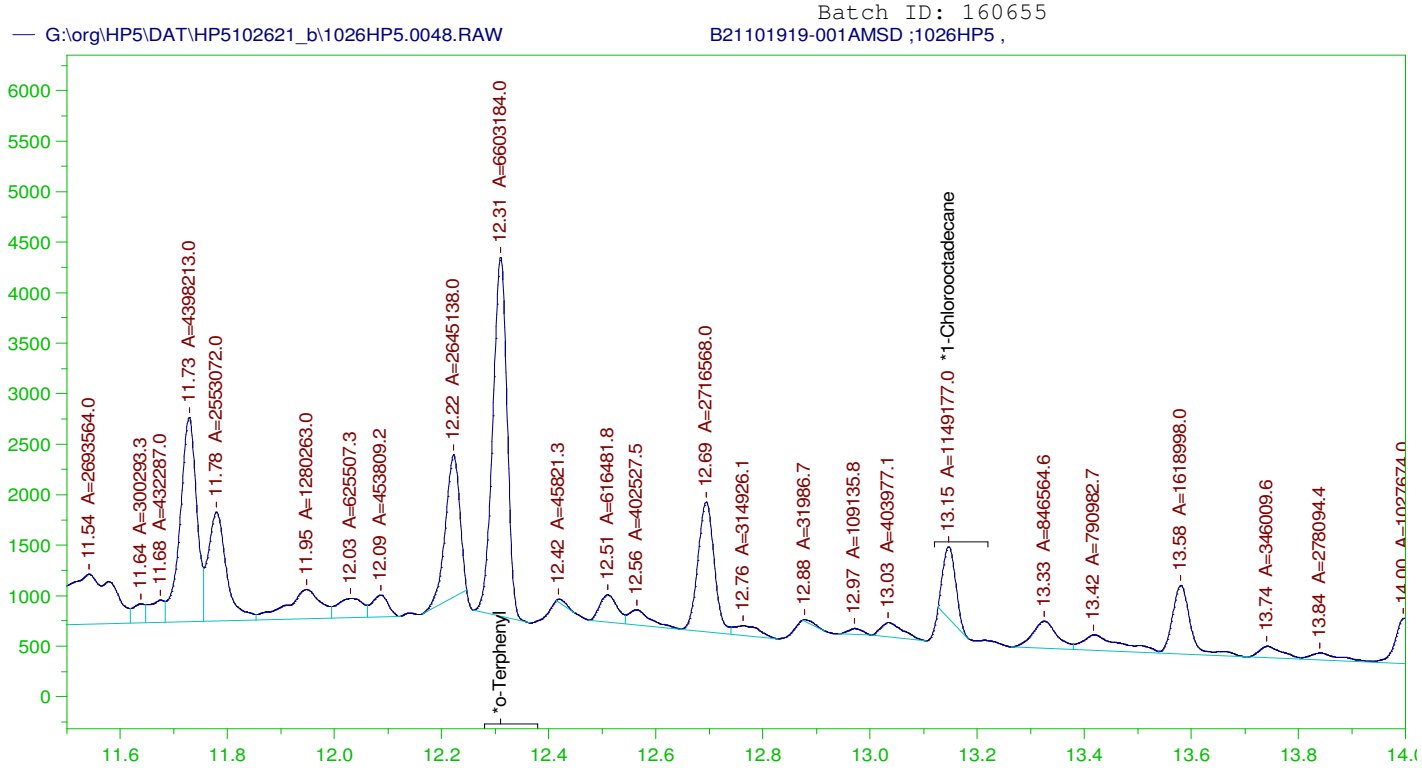
Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

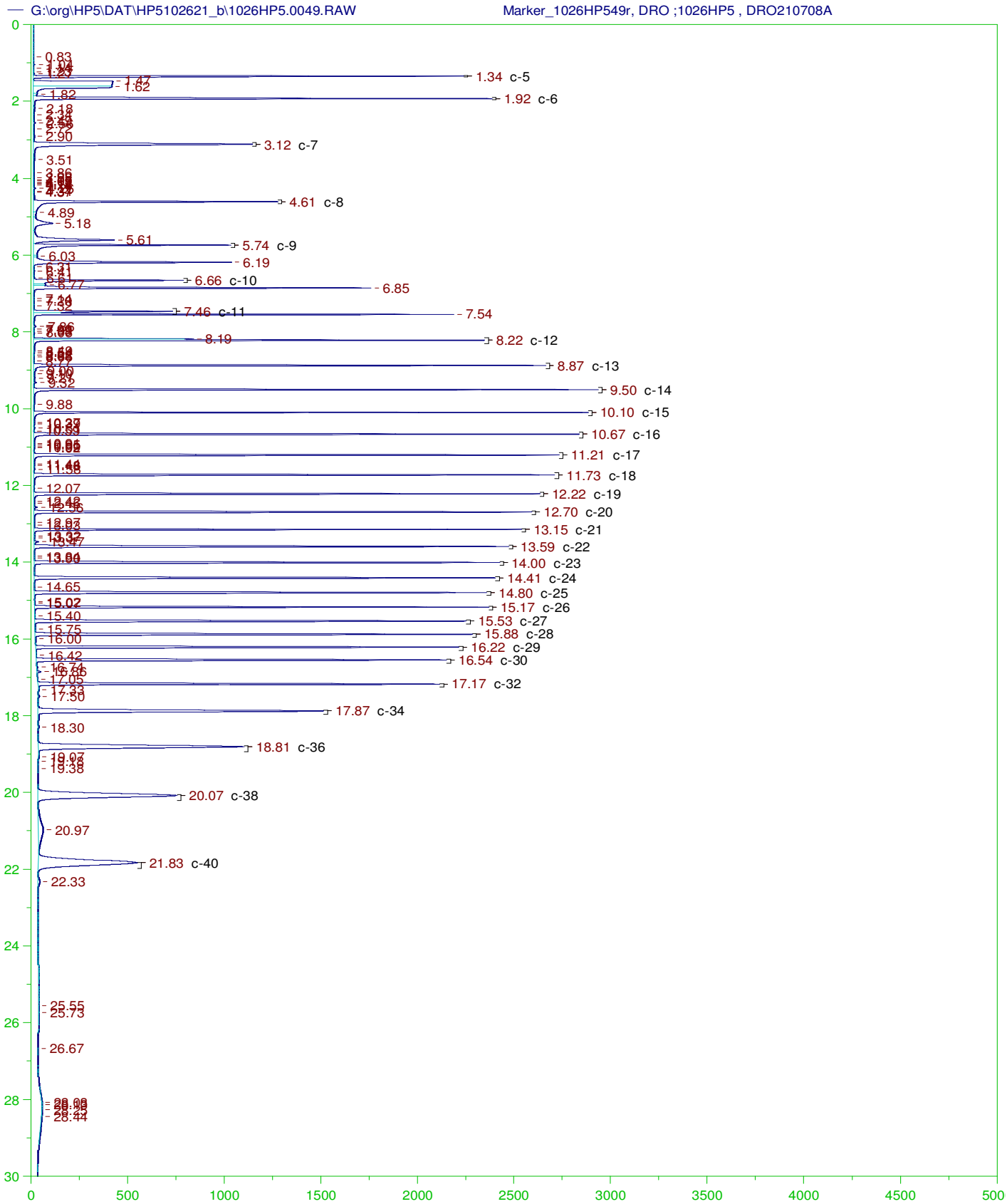
Sample Name: B21101919-001AMSD ;1026HP5 ,
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0048.RAW
Date & Time Acquired: 10/27/2021 5:39:04 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 530 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.31 | .377 | .355 | 94.14 | - |
| *1-Chlorooctadecane | 13.147 | .377 | .062 | 16.38 | - |

DRO Area:1.937951E+08 DRO Amount: 12.41291
TEH Area:2.066747E+08 TEH Amount: 13.23787

G:\org\HP5\dat\HP5102621_b\Review\048_B21101919-001AMSD_DS_8015-area-HU-L#.xls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Marker_1026HP549r, DRO ;1026HP5 , DRO210708A
1.34 c-5
1.92 c-6
3.12 c-7
4.61 c-8
5.74 c-9
6.66 c-10
7.46 c-11
8.22 c-12
8.87 c-13
9.50 c-14
10.10 c-15
10.67 c-16
11.21 c-17
11.73 c-18
12.22 c-19
12.70 c-20
13.15 c-21
13.59 c-22
14.00 c-23
14.41 c-24
14.80 c-25
15.17 c-26
15.53 c-27
15.88 c-28
16.22 c-29
16.54 c-30
17.17 c-32
17.87 c-34
18.81 c-36
20.07 c-38
21.83 c-40
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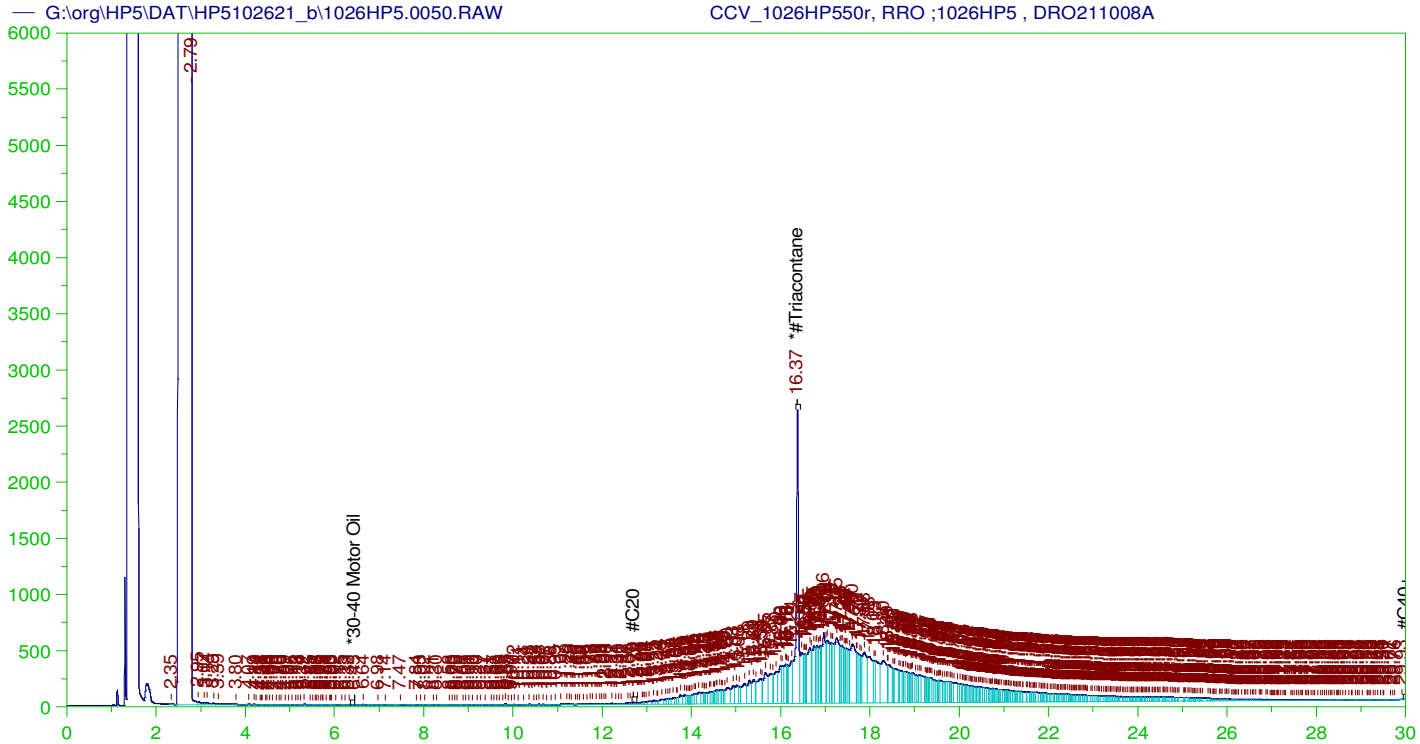



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP550r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0050.RAW
Date & Time Acquired: 10/27/2021 7:05:02 PM
Method File: G:\Org\HP5\Methods\DC_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 500. | 330.191 | 66.04 | - |

~~RRO~~ TEH(Oil Range) Area:1.307274E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4580.112

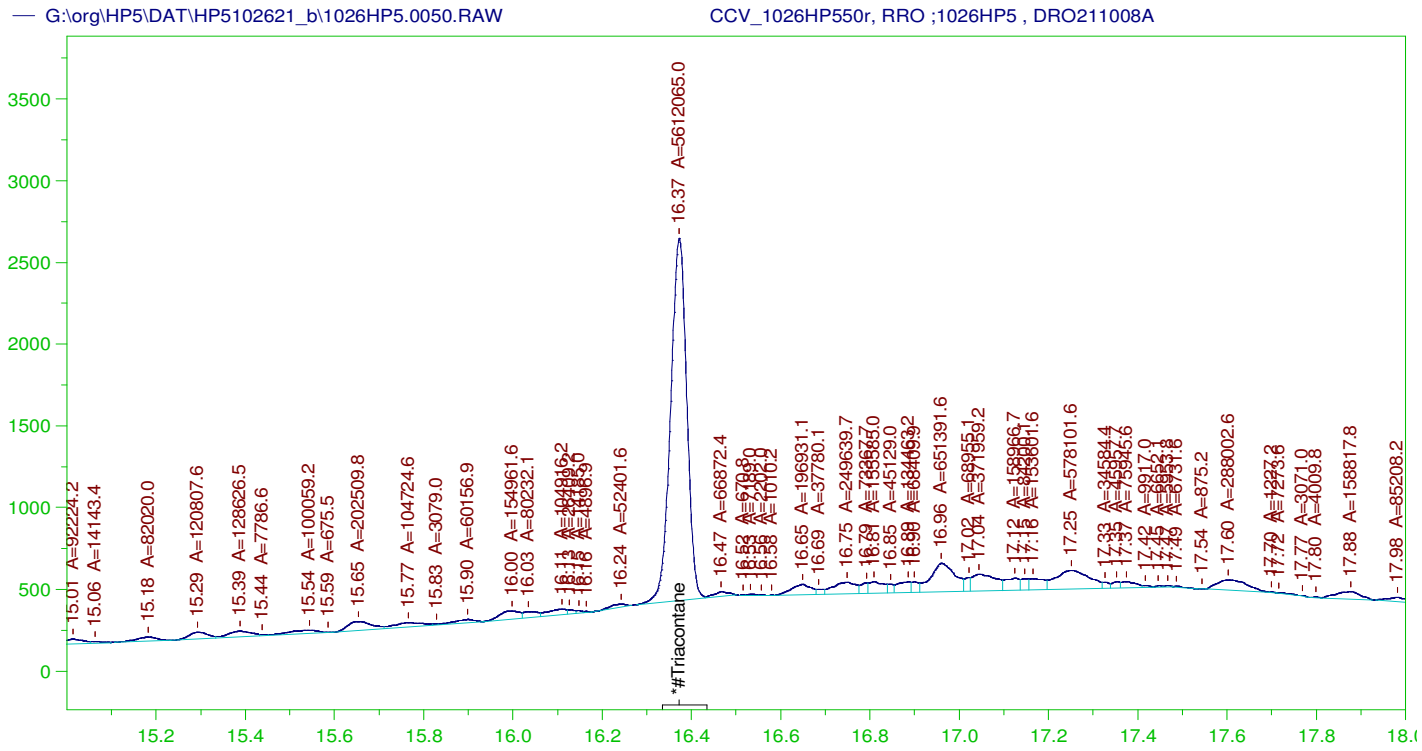
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0050.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | .042 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 200. | 330.191 | 165.1 | 75-125 |

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\050_CCV_1026HP550r_DC_ORO-AB-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP550r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0050.RAW
Date & Time Acquired: 10/27/2021 7:05:02 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

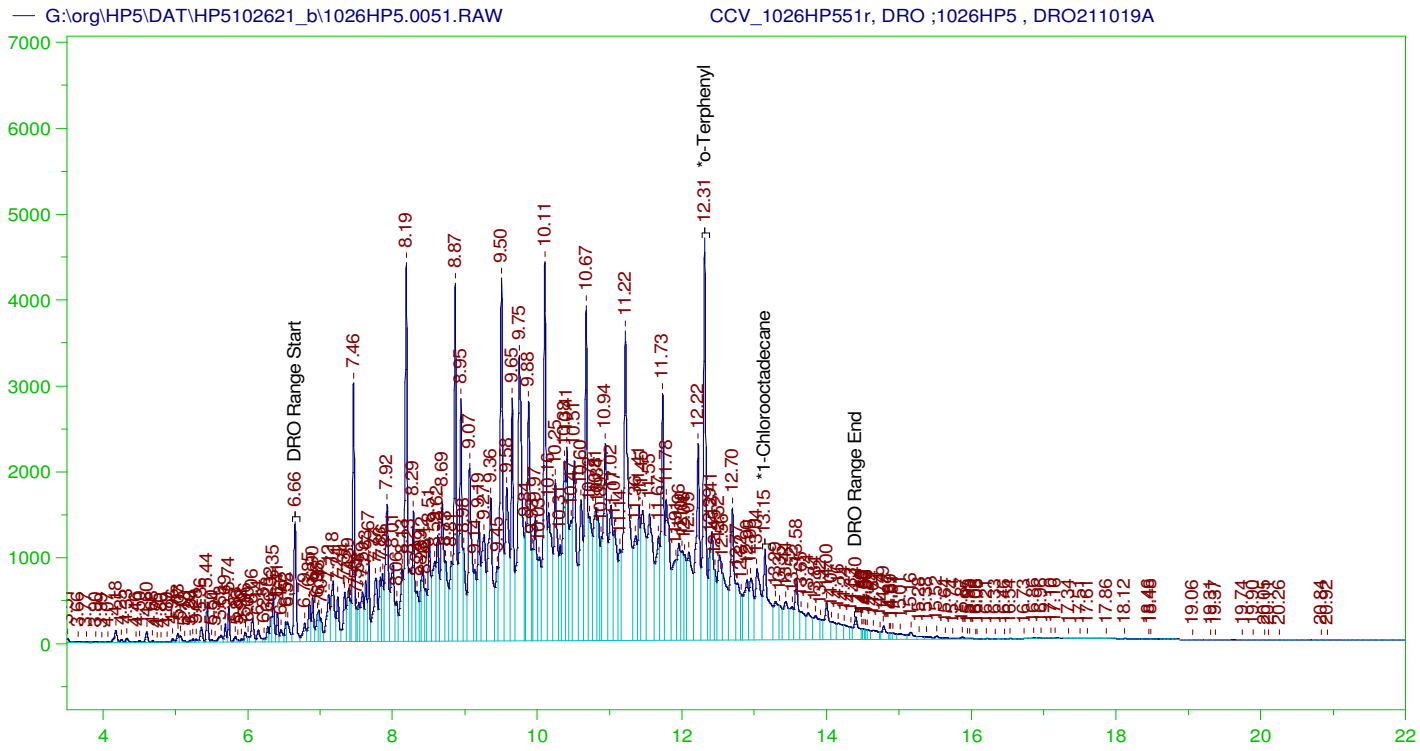
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 500. | 193.987 | 38.8 | - |

RRO Area:6593352 RRO AMOUNT: 231.0019

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0050.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | .042 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 200. | 193.987 | 96.99 | 75-125 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP551r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0051.RAW
Date & Time Acquired: 10/27/2021 7:48:04 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HU-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

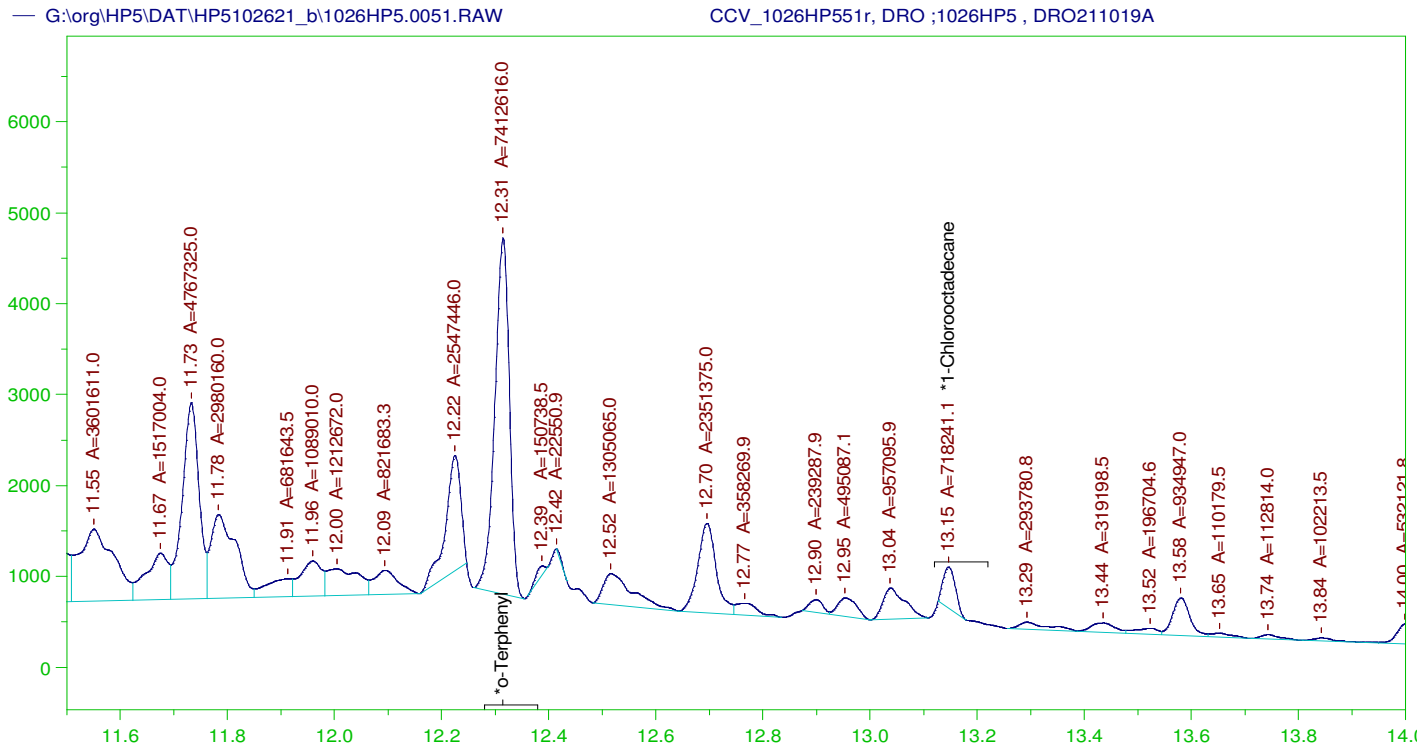
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | 200. | 336.13 | 168.07 | - |
| *1-Chlorooctadecane | 13.147 | 200. | 147.865 | 73.93 | - |

DRO Area:4.272498E+08 DRO Amount: 14504.02
TEH Area:4.424283E+08 TEH Amount: 15019.29

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0051.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15019.29 | 100.13 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | 200. | 336.13 | 168.07 | 85-115 |
| *1-Chlorooctadecane | 13.147 | 200. | 147.865 | 73.93 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP551r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0051.RAW
Date & Time Acquired: 10/27/2021 7:48:04 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | 200. | 211.359 | 105.68 | - |
| *1-Chlorooctadecane | 13.147 | 200. | 20.479 | 10.24 | - |

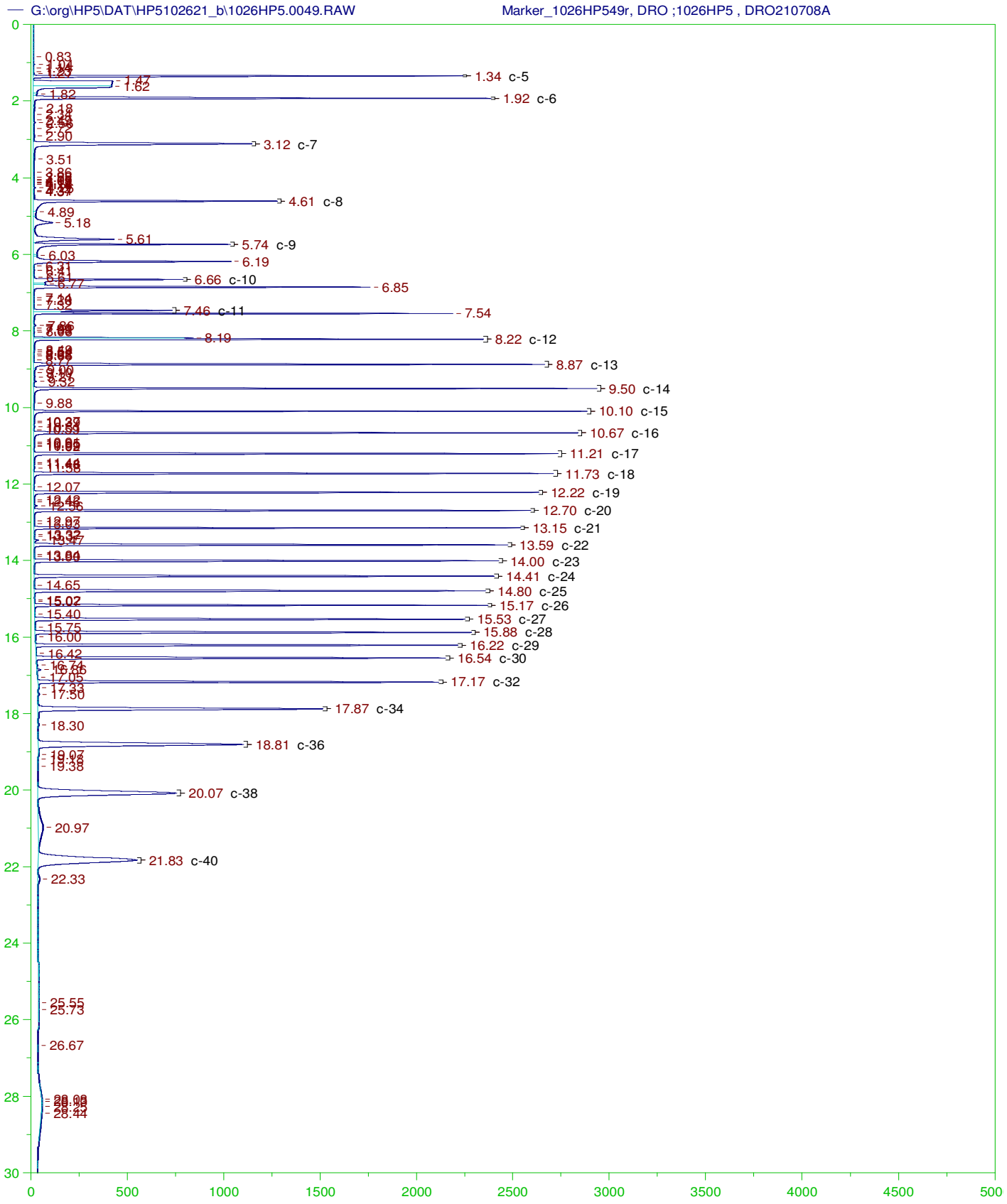
DRO Area:2.429378E+08 DRO Amount: 8247.108
TEH Area:2.52955E+08 TEH Amount: 8587.167

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0051.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8587.17 | 57.25 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | 200. | 211.359 | 105.68 | 85-115 |
| *1-Chlorooctadecane | 13.147 | 200. | 20.479 | 10.24 | 85-115 |

G:\org\HP5\dat\HP5102621_b\Review\051_CCV_1026HP551r_DS_8015-area-HU-L#.xls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Marker_1026HP549r, DRO ;1026HP5 , DRO210708A
1.34 c-5
1.92 c-6
3.12 c-7
4.61 c-8
5.74 c-9
6.66 c-10
7.46 c-11
8.22 c-12
8.87 c-13
9.50 c-14
10.10 c-15
10.67 c-16
11.21 c-17
11.73 c-18
12.22 c-19
12.70 c-20
13.15 c-21
13.59 c-22
14.00 c-23
14.41 c-24
14.80 c-25
15.17 c-26
15.53 c-27
15.88 c-28
16.22 c-29
16.54 c-30
17.17 c-32
17.87 c-34
18.81 c-36
20.07 c-38
21.83 c-40
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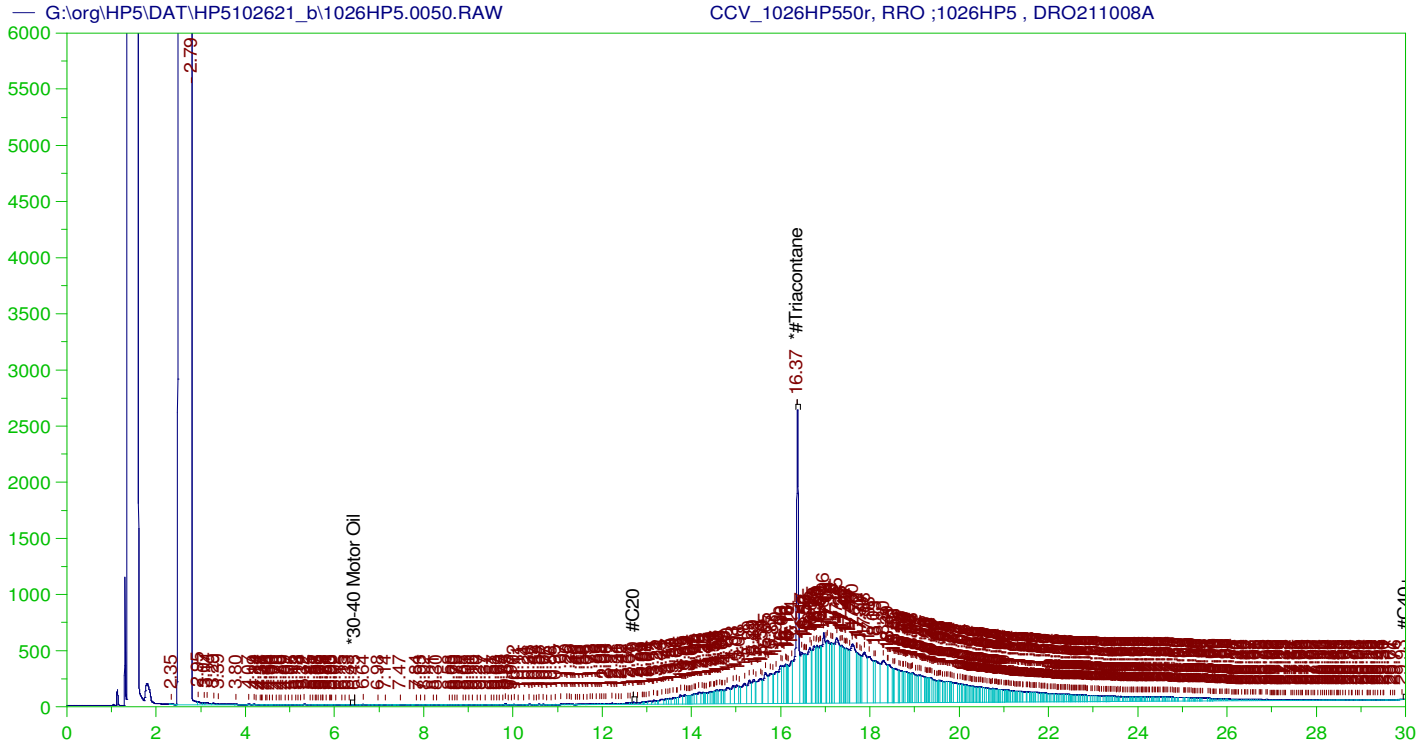



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP550r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0050.RAW
Date & Time Acquired: 10/27/2021 7:05:02 PM
Method File: G:\Org\HP5\Methods\DC_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 500. | 330.191 | 66.04 | - |

~~RRO~~ TEH(Oil Range)Area:1.307274E+08 ~~RRO~~ TEH(Oil Range)AMOUNT: 4580.112

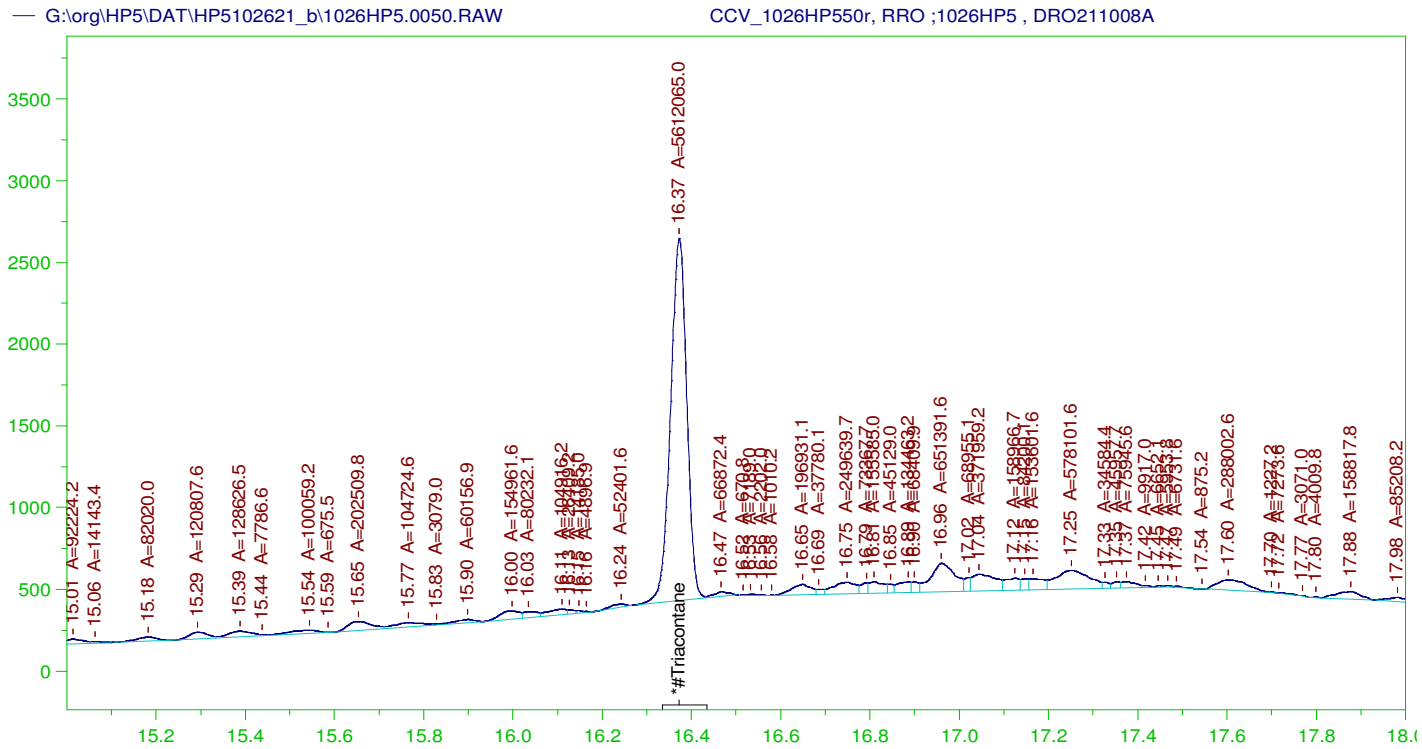
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0050.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | .042 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 200. | 330.191 | 165.1 | 75-125 |

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\050_CCV_1026HP550r_DC_ORO-AB-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP550r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0050.RAW
Date & Time Acquired: 10/27/2021 7:05:02 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

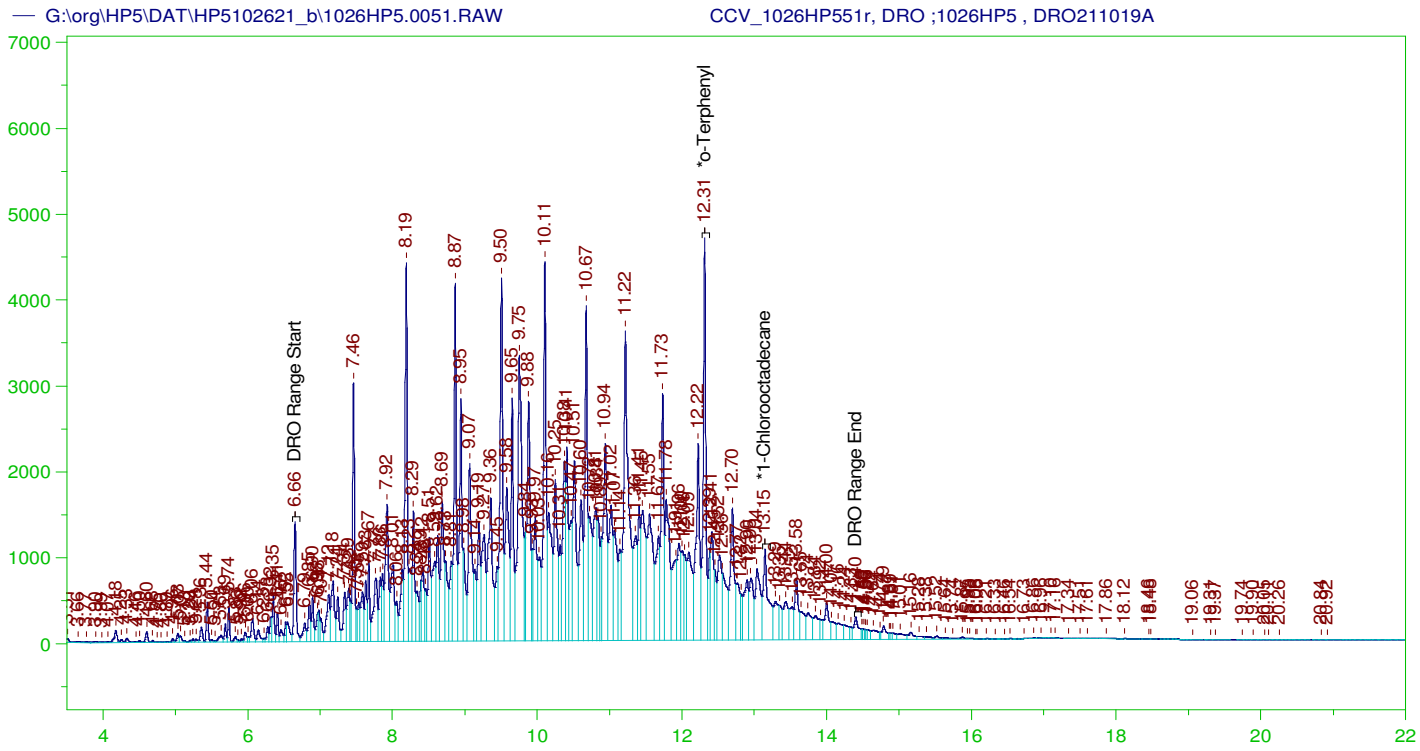
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 500. | 193.987 | 38.8 | - |

RRO Area:6593352 RRO AMOUNT: 231.0019

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0050.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | .042 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 200. | 193.987 | 96.99 | 75-125 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP551r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0051.RAW
Date & Time Acquired: 10/27/2021 7:48:04 PM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HU-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

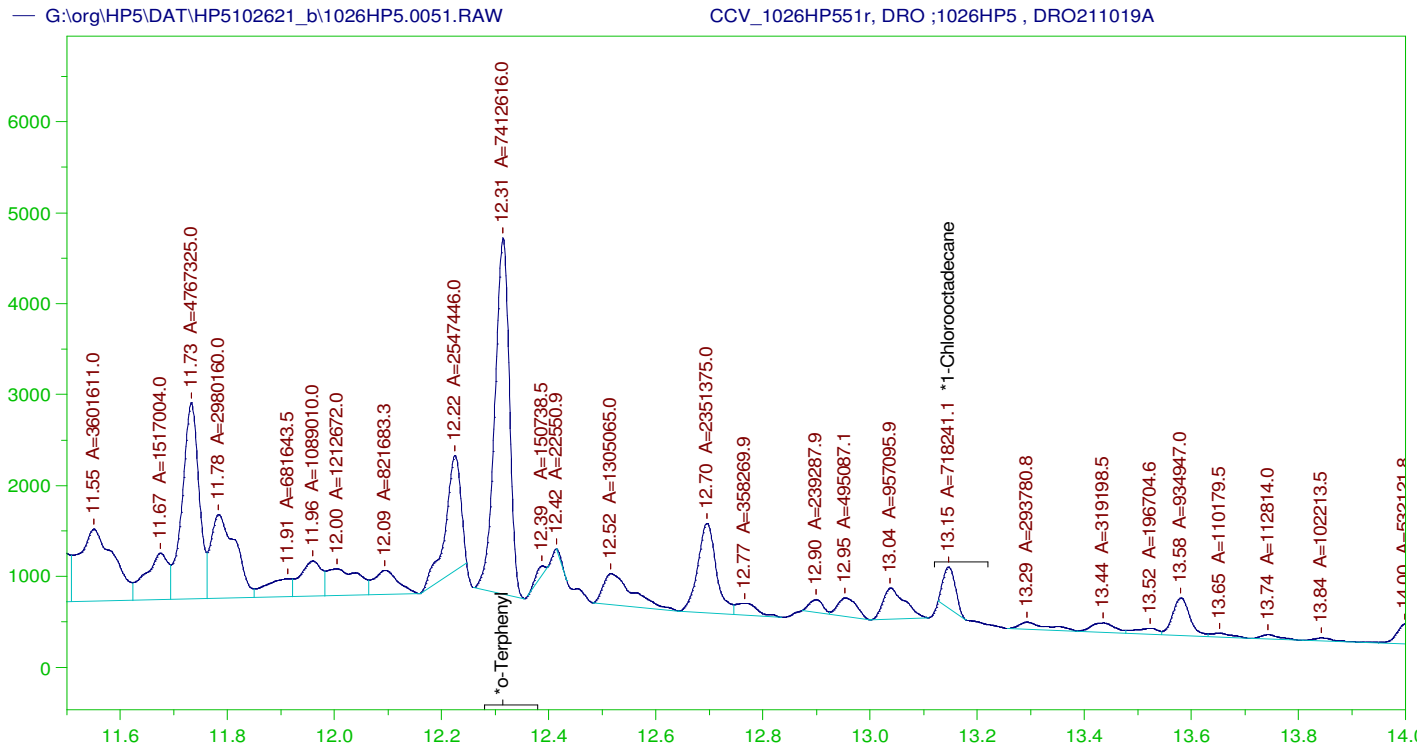
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | 200. | 336.13 | 168.07 | - |
| *1-Chlorooctadecane | 13.147 | 200. | 147.865 | 73.93 | - |

DRO Area:4.272498E+08 DRO Amount: 14504.02
TEH Area:4.424283E+08 TEH Amount: 15019.29

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0051.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15019.29 | 100.13 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | 200. | 336.13 | 168.07 | 85-115 |
| *1-Chlorooctadecane | 13.147 | 200. | 147.865 | 73.93 | 85-115 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP551r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0051.RAW
Date & Time Acquired: 10/27/2021 7:48:04 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | 200. | 211.359 | 105.68 | - |
| *1-Chlorooctadecane | 13.147 | 200. | 20.479 | 10.24 | - |

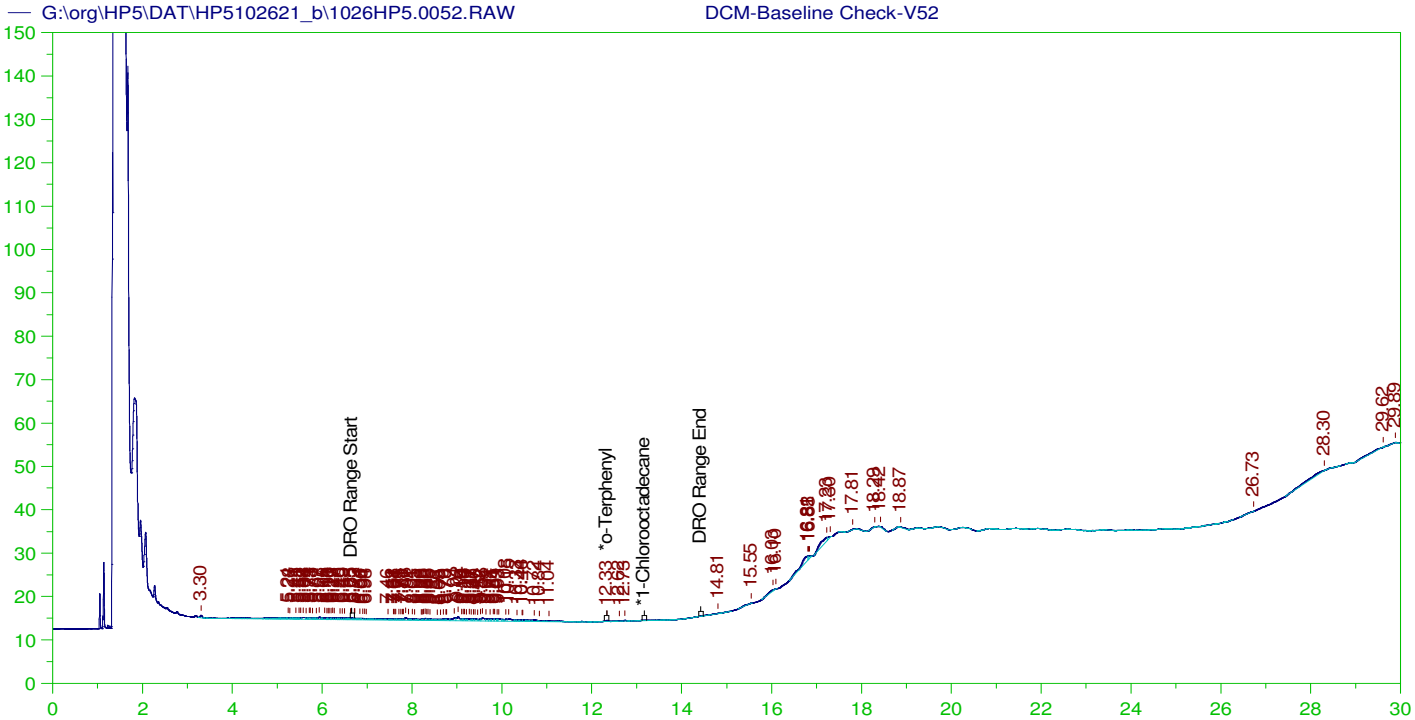
DRO Area:2.429378E+08 DRO Amount: 8247.108
TEH Area:2.52955E+08 TEH Amount: 8587.167

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0051.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8587.17 | 57.25 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.315 | 200. | 211.359 | 105.68 | 85-115 |
| *1-Chlorooctadecane | 13.147 | 200. | 20.479 | 10.24 | 85-115 |

G:\org\HP5\dat\HP5102621_b\Review\051_CCV_1026HP551r_DS_8015-area-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V52
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0052.RAW
Date & Time Acquired: 10/27/2021 8:30:59 PM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

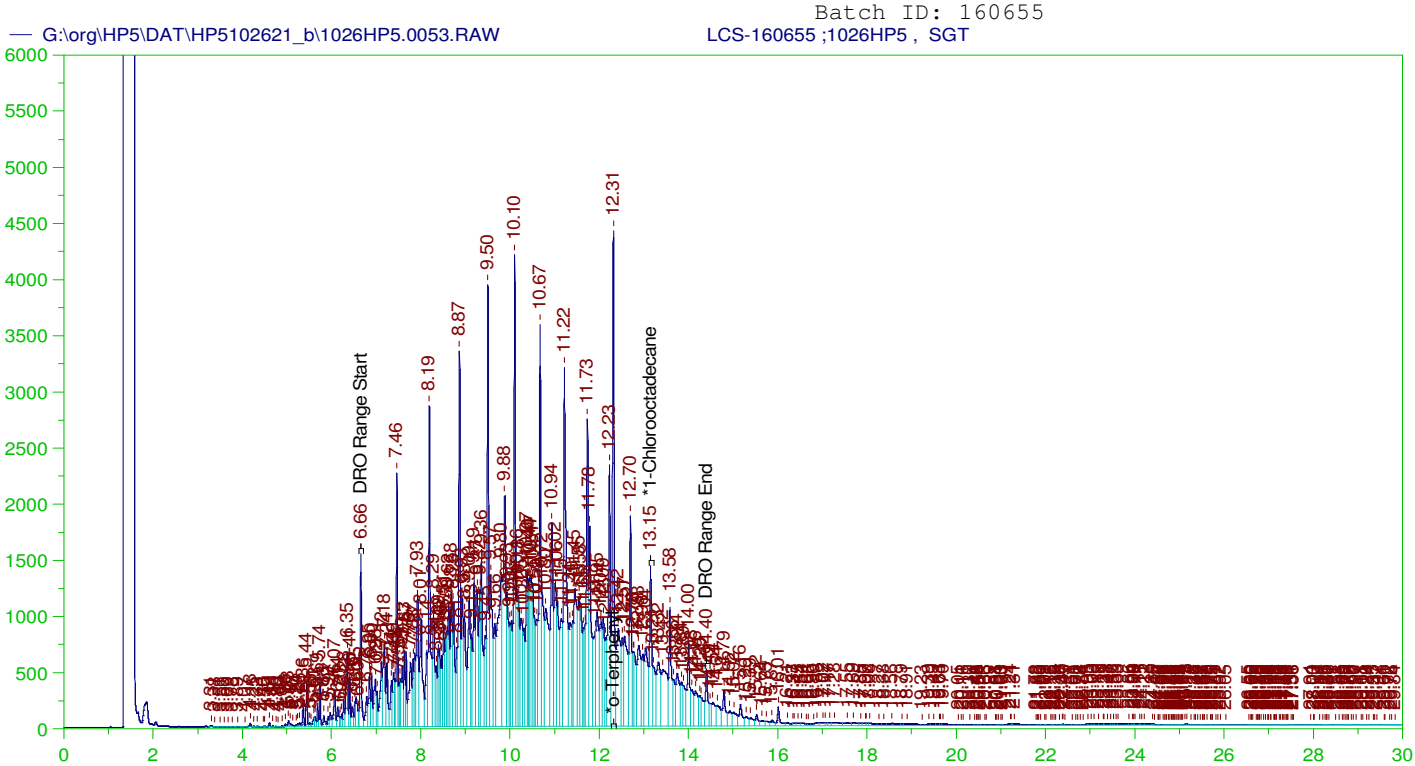
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.335 | 200. | .024 | .01 | - |
| *1-Chlorooctadecane | 29.955 | 200. | . | . | - |

DRO Area:100666.6 DRO Amount: 3.417371
TEH Area:222378.4 TEH Amount: 7.549169

G:\org\HP5\dat\HP5102621_b\Review\052_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160655 ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0053.RAW
Date & Time Acquired: 10/27/2021 9:14:07 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .2 | .333 | 166.54 | - |
| *1-Chlorooctadecane | 13.149 | .2 | .133 | 66.65 | - |

DRO Area:3.752255E+08 DRO Amount: 12.73793
TEH Area:4.05255E+08 TEH Amount: 13.75736

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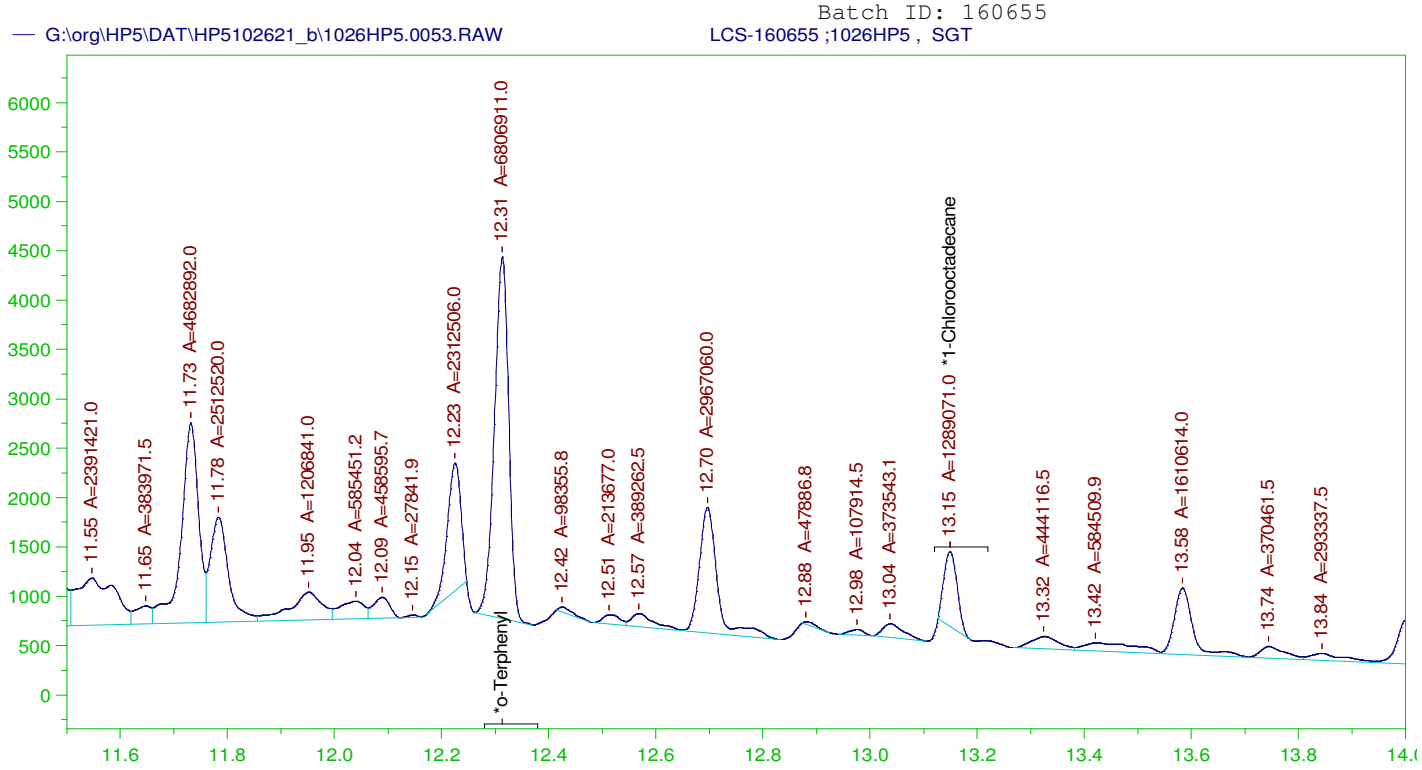
Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160655 ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0053.RAW
Date & Time Acquired: 10/27/2021 9:14:07 PM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.313 | .2 | .194 | 97.04 | - |
| *1-Chlorooctadecane | 13.149 | .2 | .037 | 18.38 | - |

DRO Area:1.821049E+08 DRO Amount: 6.181989
TEH Area:1.92873E+08 TEH Amount: 6.547537

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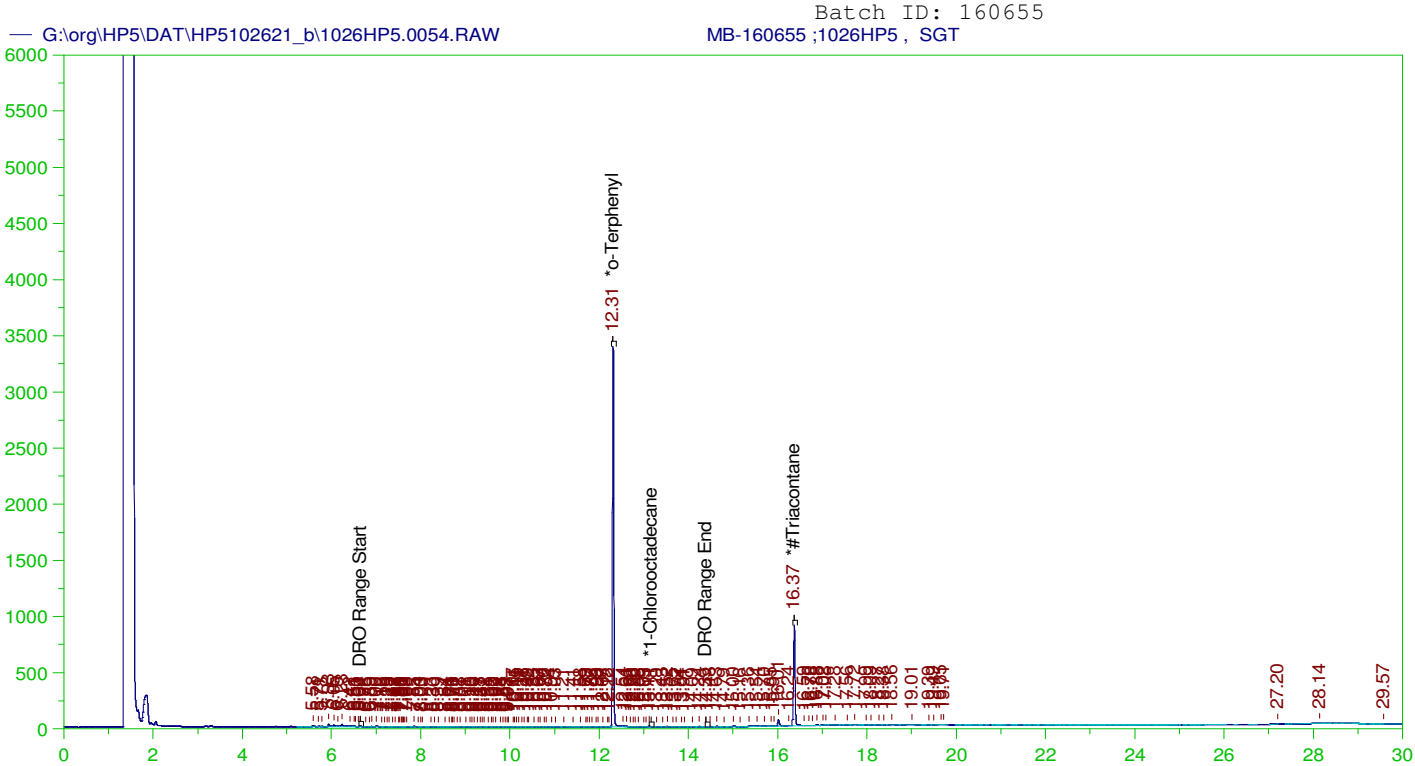
Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160655 ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0054.RAW
Date & Time Acquired: 10/27/2021 9:57:09 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.309 | .2 | .183 | 91.74 | - |
| *1-Chlorooctadecane | 29.573 | .2 | . | . | - |
| *#Triacontane | 16.366 | .2 | .08 | 39.76 | - |

DRO Area:264880 DRO Amount: 8.991989E-03
TEH Area:888276.5 TEH Amount: 3.015468E-02

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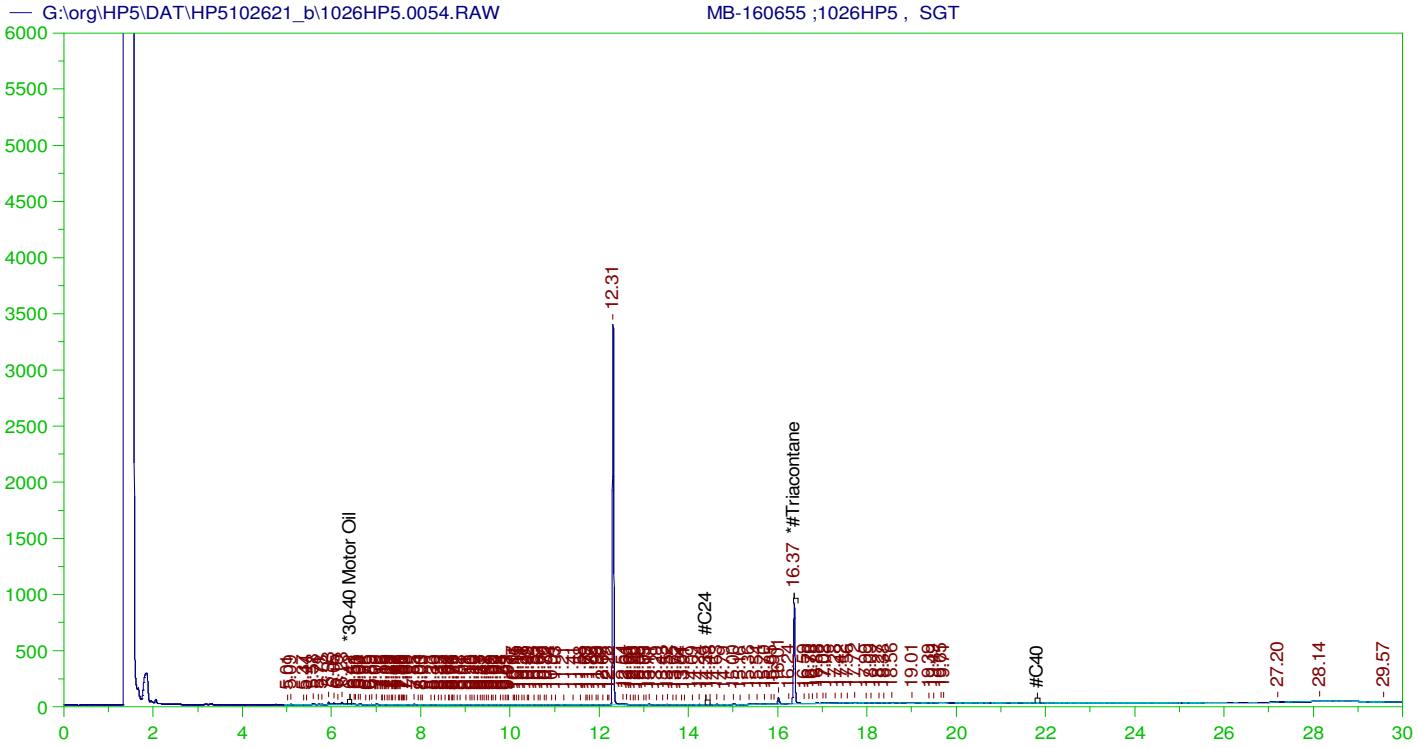



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160655 ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0054.RAW
Date & Time Acquired: 10/27/2021 9:57:09 PM
Method File: G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017ABb-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

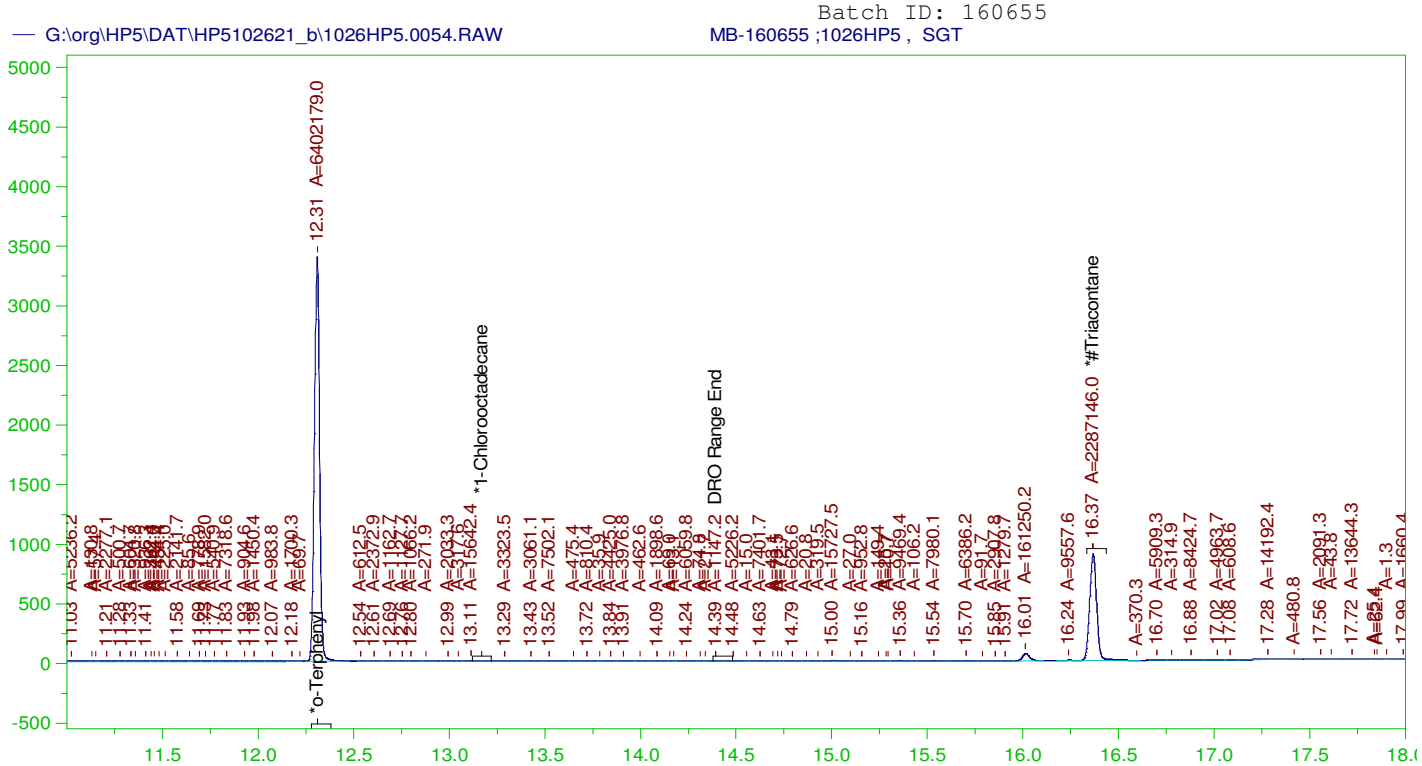
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.87

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.366 | .5 | .08 | 15.9 | - |

RRO Area:361888.5 RRO AMOUNT: 1.267897E-02

G:\org\HP5\dat\HP5102621_b\Review\054_MB-160655_DR_OROS-ABb-L%.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160655 ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0054.RAW
Date & Time Acquired: 10/27/2021 9:57:09 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

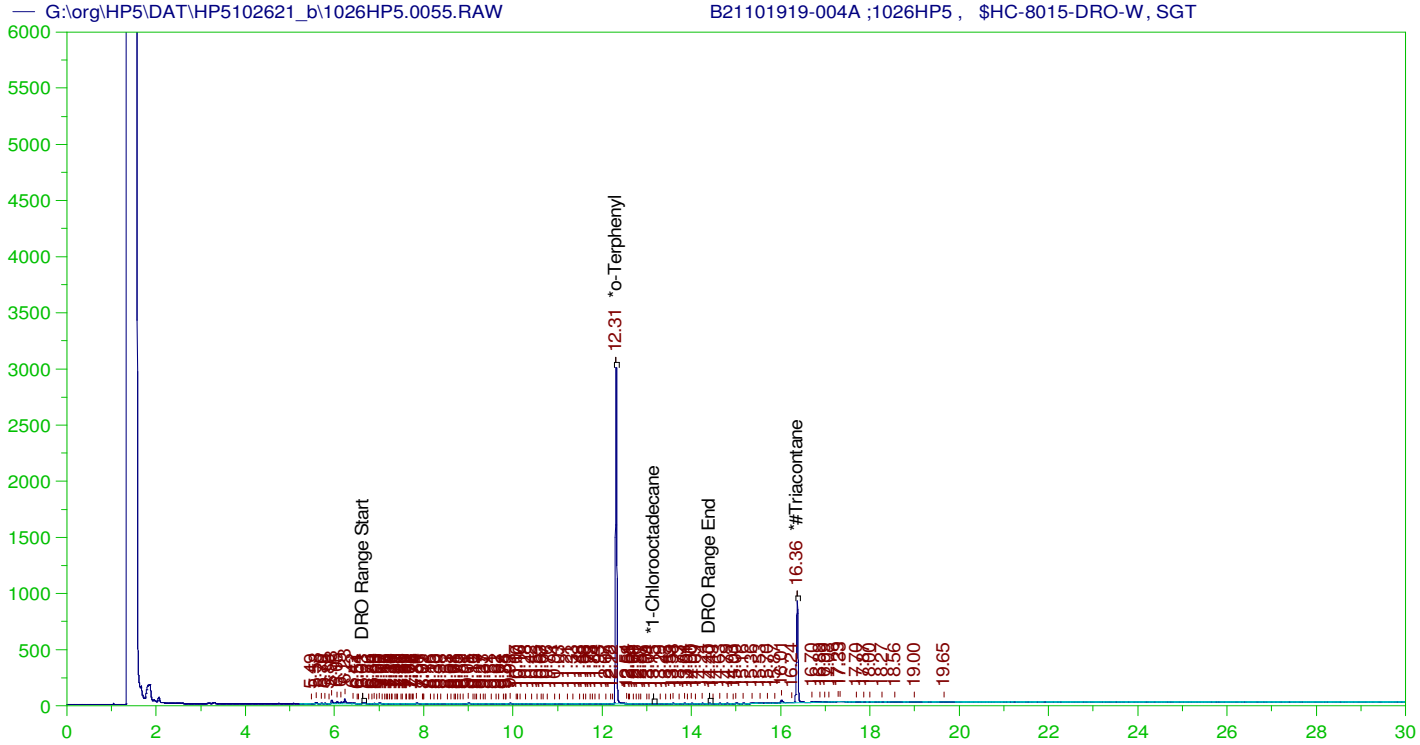
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.309 | .2 | .183 | 91.27 | - |
| *1-Chlorooctadecane | 29.573 | .2 | . | . | - |
| *#Triacontane | 16.366 | .2 | .079 | 39.53 | - |

DRO Area:325778.2 DRO Amount: 1.105933E-02
TEH Area:1093972 TEH Amount: 3.713749E-02

G:\org\HP5\dat\HP5102621_b\Review\054_MB-160655_DS_8015-C24T-HU-L#.xls

**ERH1825 (RHMW05)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0055.RAW B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0055.RAW
Date & Time Acquired: 10/27/2021 10:40:17 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

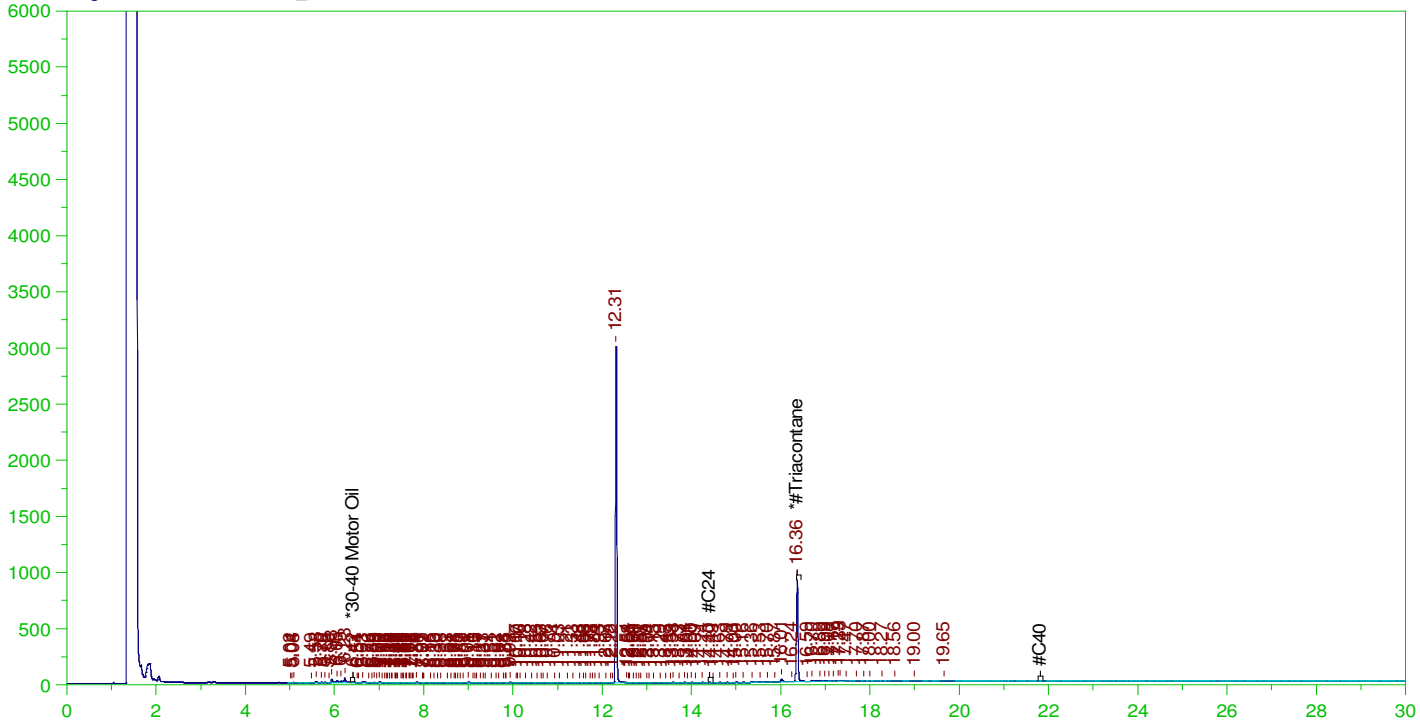
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.31 | .19 | .153 | 80.89 | - |
| *1-Chlorooctadecane | 13.148 | .19 | . | .1 | - |
| *#Triacontane | 16.365 | .19 | .076 | 40.18 | - |

DRO Area:366748.8 DRO Amount: 1.180111E-02
TEH Area:1029127 TEH Amount: 3.311487E-02

G:\org\HP5\dat\HP5102621_b\Review\055_B21101919-004A_DR_8015-C24-Tri-HU-L%.xls

**ERH1825 (RHMW05)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0055.RAW B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0055.RAW
Date & Time Acquired: 10/27/2021 10:40:17 PM
Method File: G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017ABb-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.87

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.365 | .474 | .076 | 16.13 | - |

RRO Area:337937.8 RRO AMOUNT: 0.0112226

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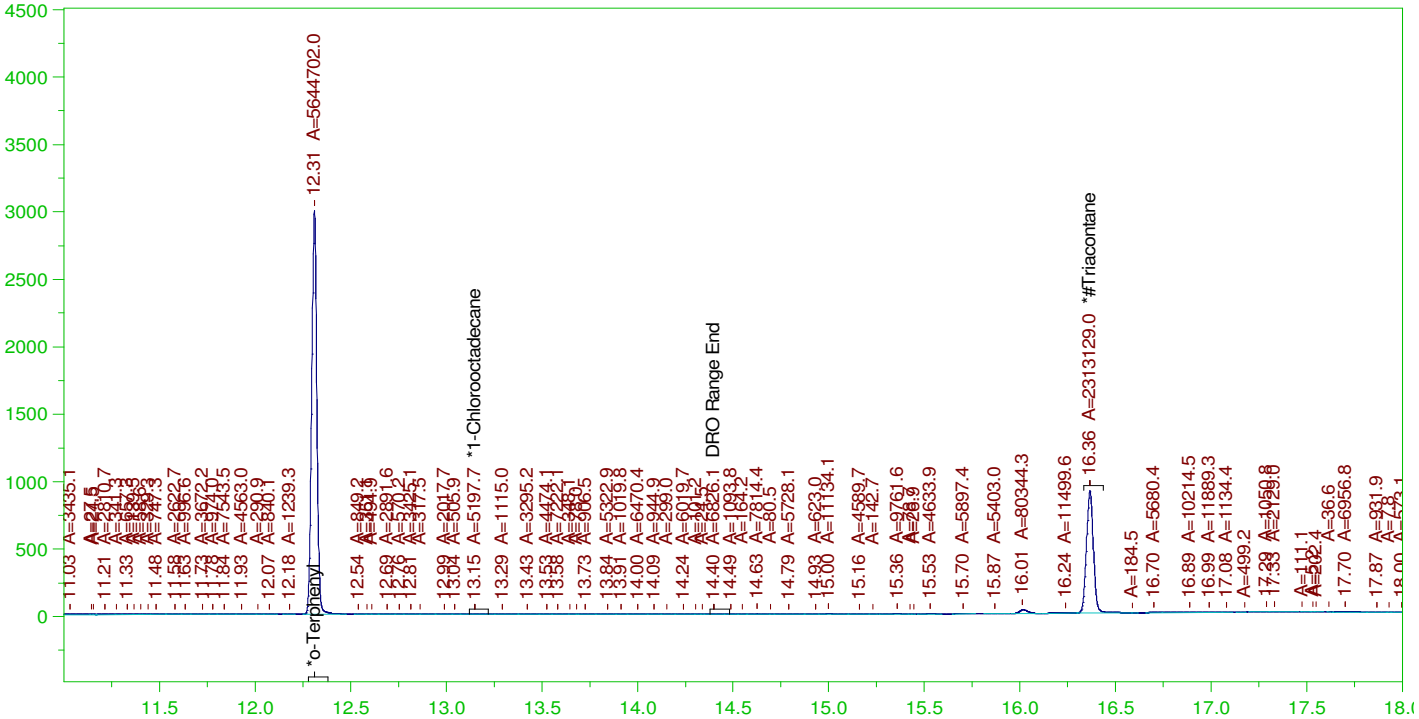
**ERH1825 (RHMW05)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0055.RAW B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0055.RAW
Date & Time Acquired: 10/27/2021 10:40:17 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

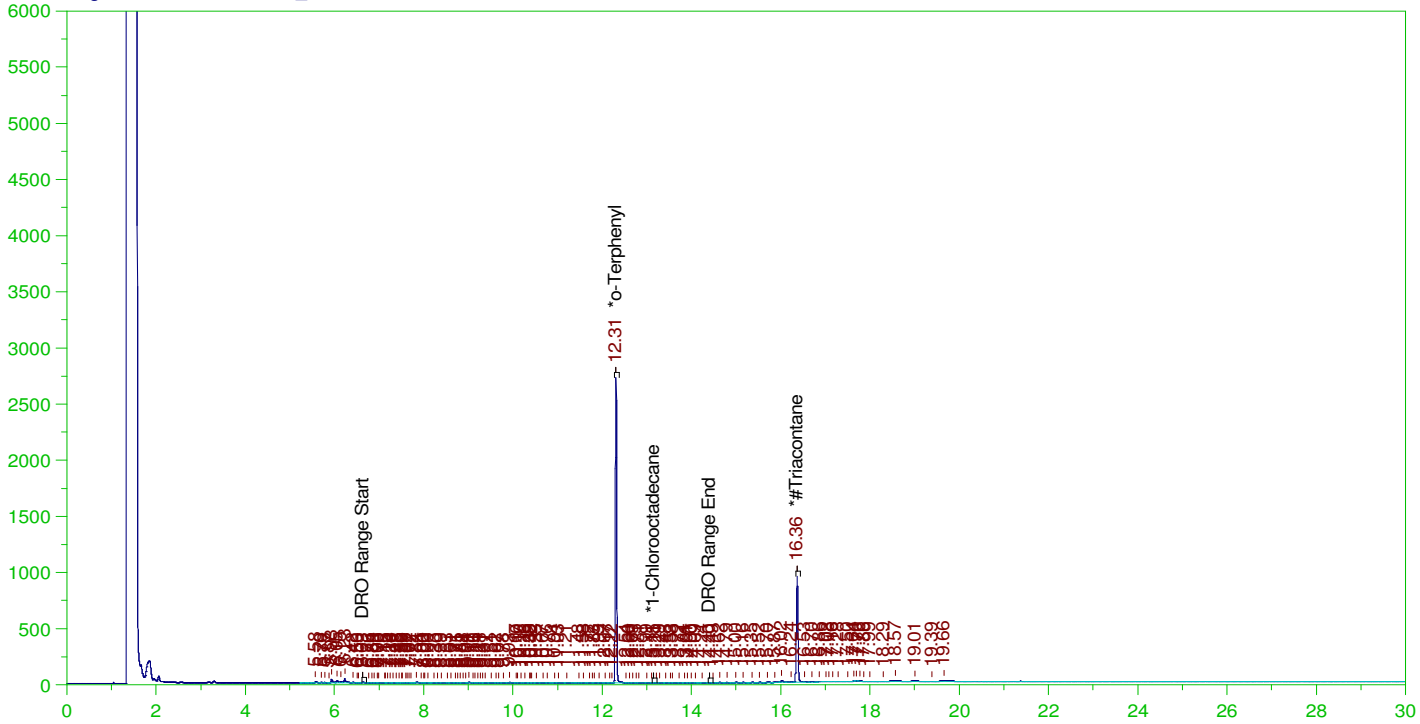
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.31 | .19 | .153 | 80.47 | - |
| *1-Chlorooctadecane | 13.148 | .19 | . | .07 | - |
| *#Triacontane | 16.365 | .19 | .076 | 39.98 | - |

DRO Area:401961.5 DRO Amount: 1.293417E-02
TEH Area:1198355 TEH Amount: 3.856022E-02

G:\org\HP5\dat\HP5102621_b\Review\055_B21101919-004A_DS_8015-C24T-HU-L#.xls

**ERH1831 (RHMW03)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0056.RAW B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0056.RAW
Date & Time Acquired: 10/27/2021 11:23:25 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

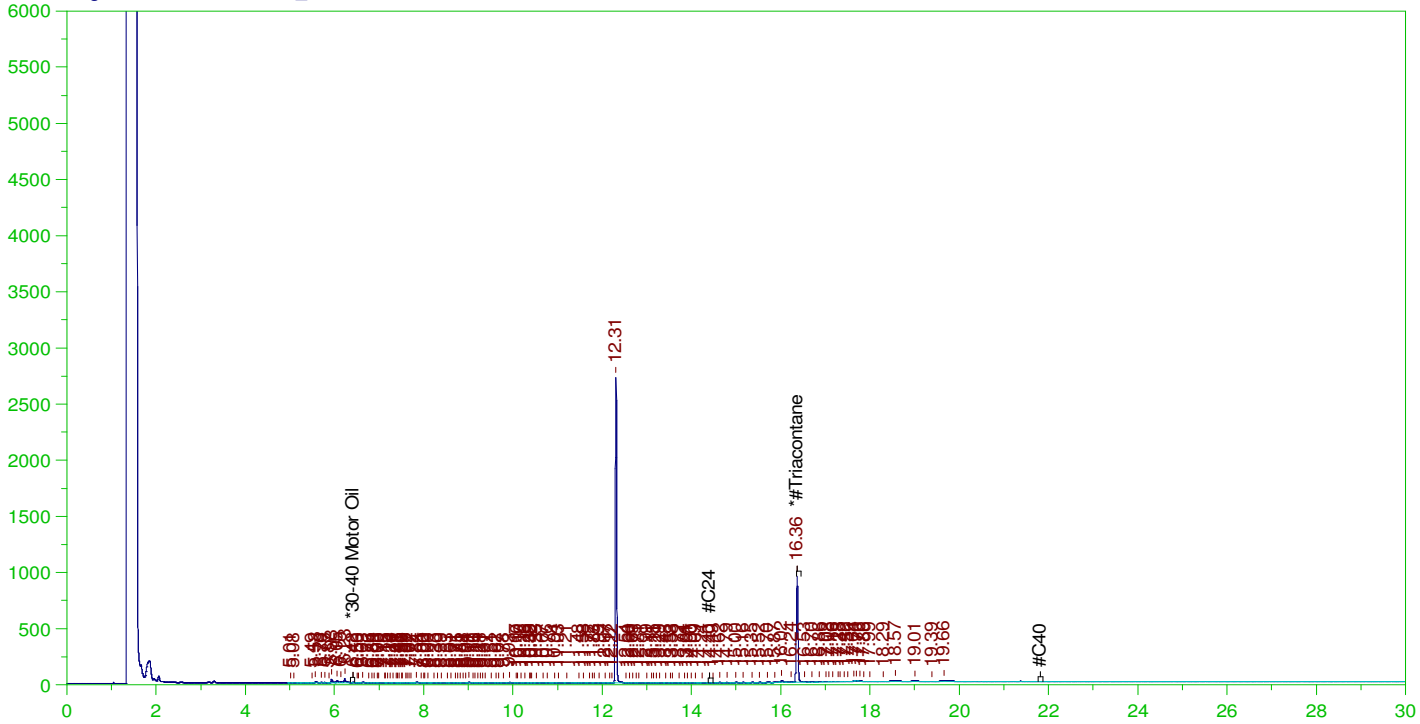
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.306 | .19 | .141 | 74.21 | - |
| *1-Chlorooctadecane | 13.146 | .19 | . | .03 | - |
| *#Triacontane | 16.364 | .19 | .08 | 42.02 | - |

DRO Area:347065.9 DRO Amount: 1.116776E-02
TEH Area:1097498 TEH Amount: 0.0353149

G:\org\HP5\dat\HP5102621_b\Review\056_B21101919-003A_DR_8015-C24-Tri-HU-L%.xls

**ERH1831 (RHMW03)** Batch ID: 160655

G:\org\HP5\DAT\HP5102621_b\1026HP5.0056.RAW B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0056.RAW
Date & Time Acquired: 10/27/2021 11:23:25 PM
Method File: G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017ABb-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.87

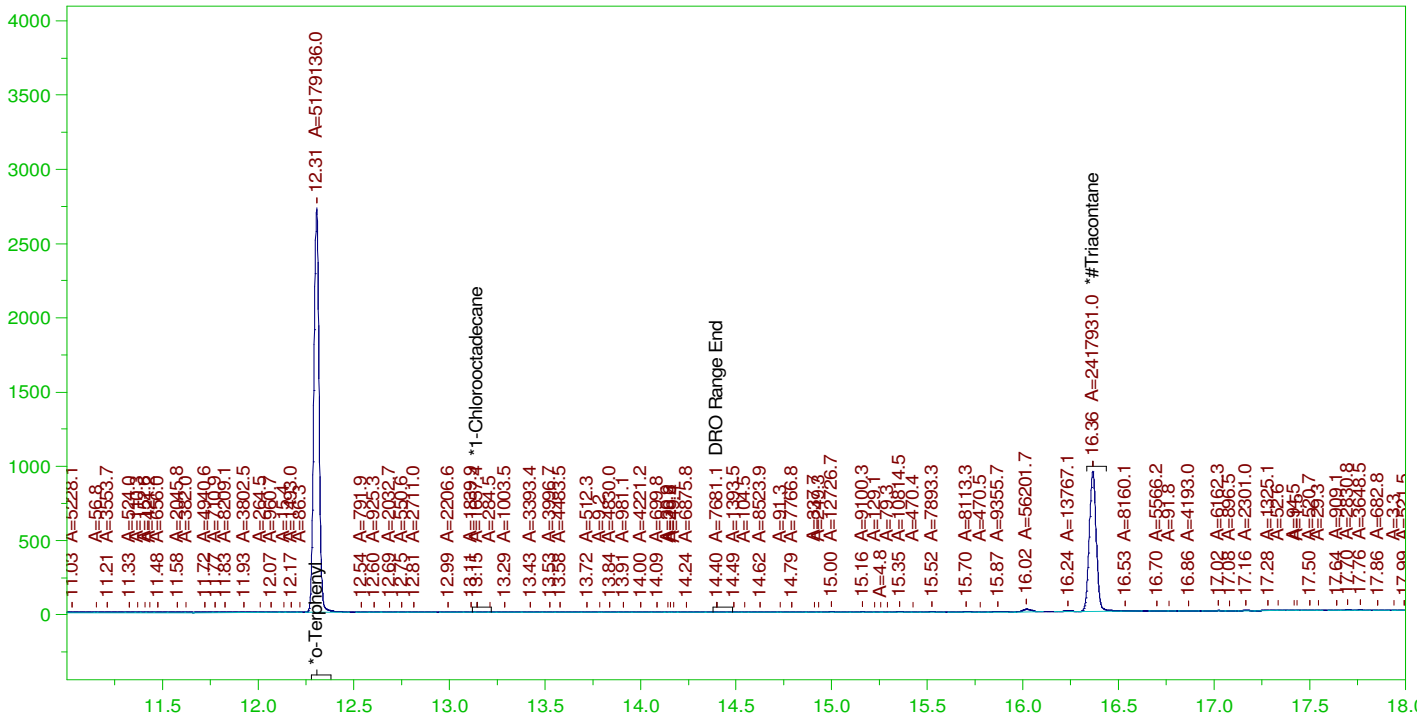
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.364 | .474 | .08 | 16.81 | - |

RRO Area:393999.2 RRO AMOUNT: 1.308435E-02

G:\org\HP5\dat\HP5102621_b\Review\056_B21101919-003A_DR_OROS-ABb-L%.xls

**ERH1831 (RHMW03)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0056.RAW B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0056.RAW
Date & Time Acquired: 10/27/2021 11:23:25 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

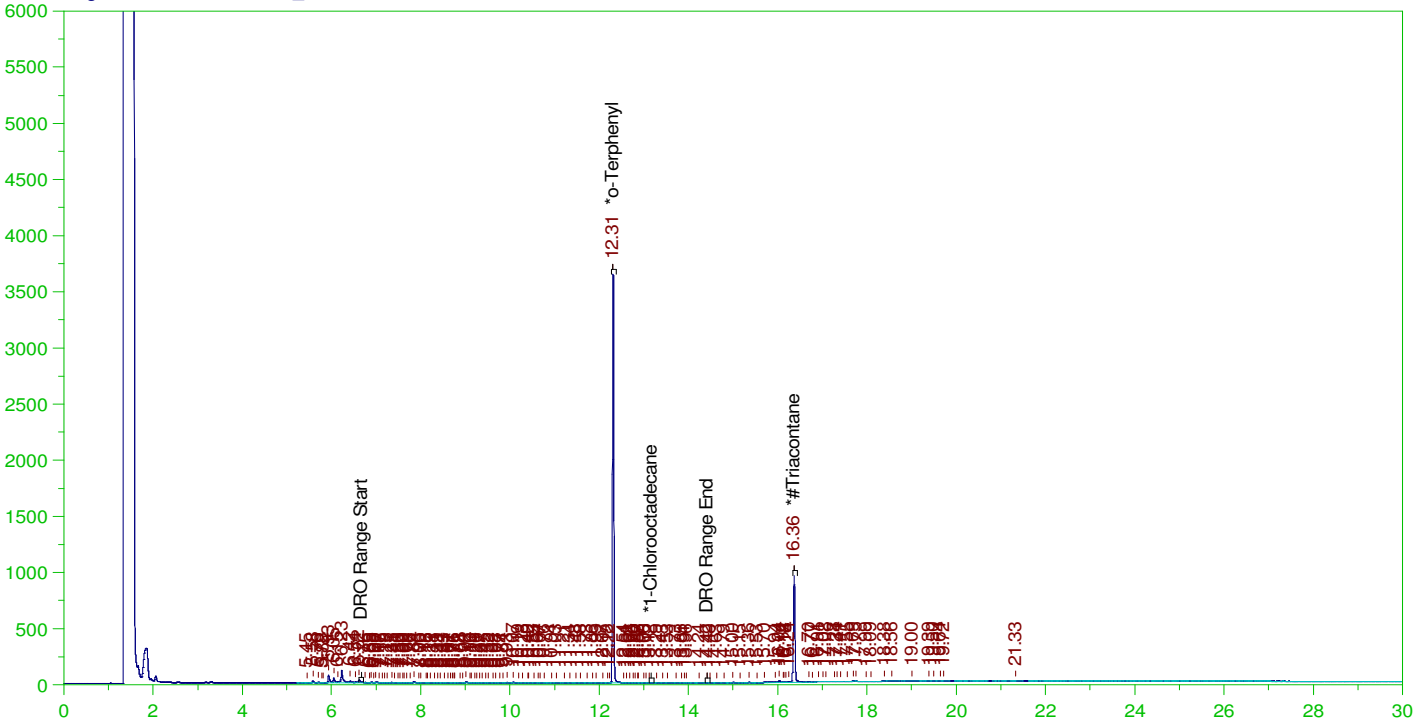
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.306 | .19 | .14 | 73.84 | - |
| *1-Chlorooctadecane | 13.146 | .19 | . | .02 | - |
| *#Triacontane | 16.364 | .19 | .079 | 41.79 | - |

DRO Area:361871.1 DRO Amount: 1.164416E-02
TEH Area:1206347 TEH Amount: 3.881738E-02

**ERH1692 (RHMW04)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0057.RAW B21101904-001B ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101904-001B ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0057.RAW
Date & Time Acquired: 10/28/2021 12:06:28 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

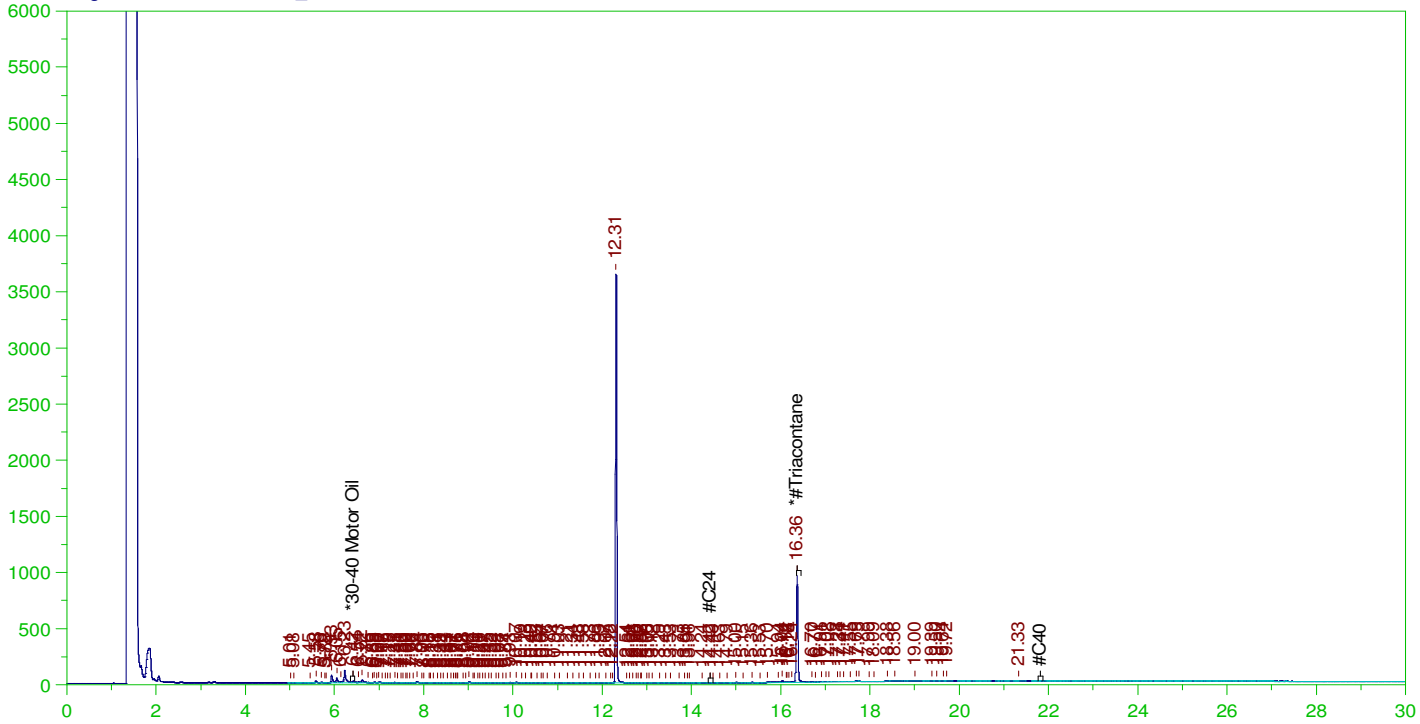
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.31 | .19 | .187 | 98.73 | - |
| *1-Chlorooctadecane | 29.992 | .19 | . | . | - |
| *#Triacontane | 16.363 | .19 | .081 | 42.8 | - |

DRO Area:458727.6 DRO Amount: 1.476077E-02
TEH Area:1656114 TEH Amount: 5.328983E-02

G:\org\HP5\dat\HP5102621_b\Review\057_B21101904-001B_DR_8015-C24-Tri-HU-L%.xls

**ERH1692 (RHMW04)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0057.RAW B21101904-001B ;1026HP5 , $HC-8015-DRO-W, SGT




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101904-001B ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0057.RAW
Date & Time Acquired: 10/28/2021 12:06:28 AM
Method File: G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017ABb-SAMP.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

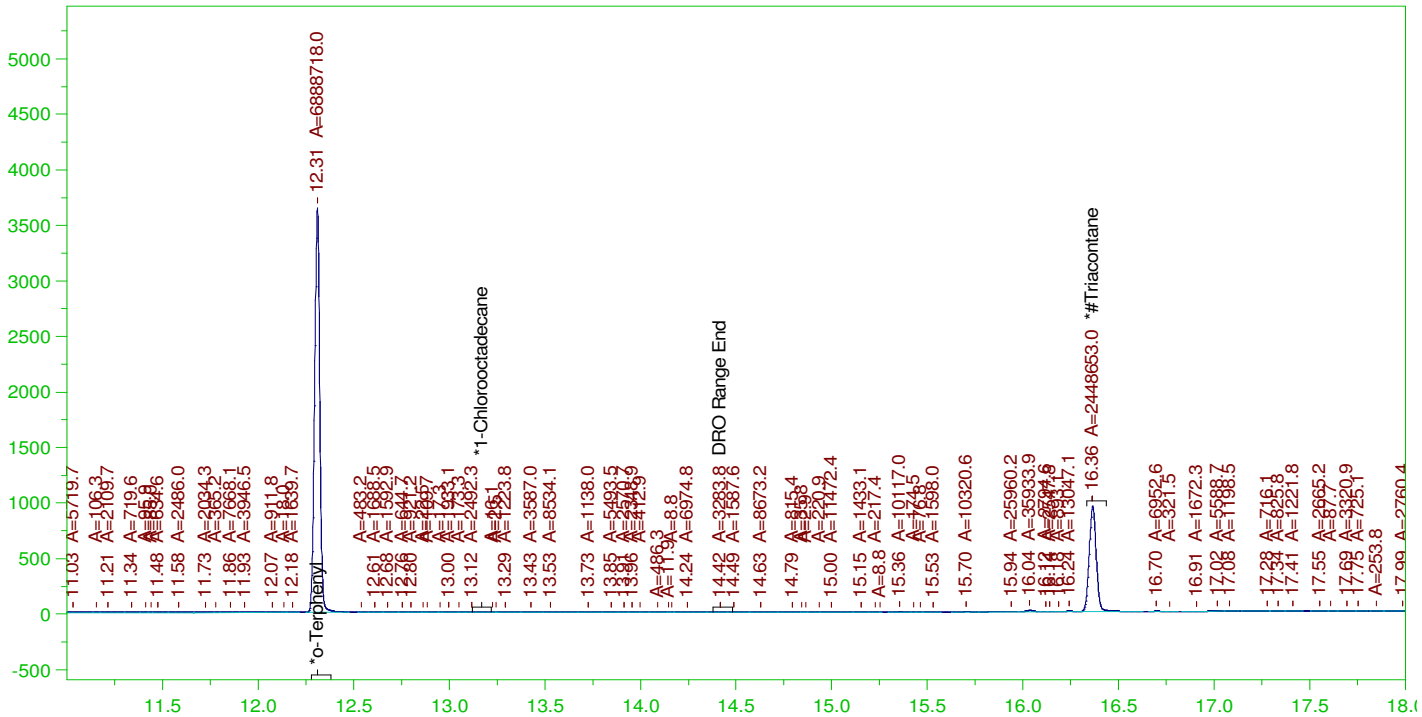
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.87

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.363 | .474 | .081 | 17.12 | - |

RRO Area:283941.6 RRO AMOUNT: 9.429439E-03

**ERH1692 (RHMW04)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0057.RAW B21101904-001B ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

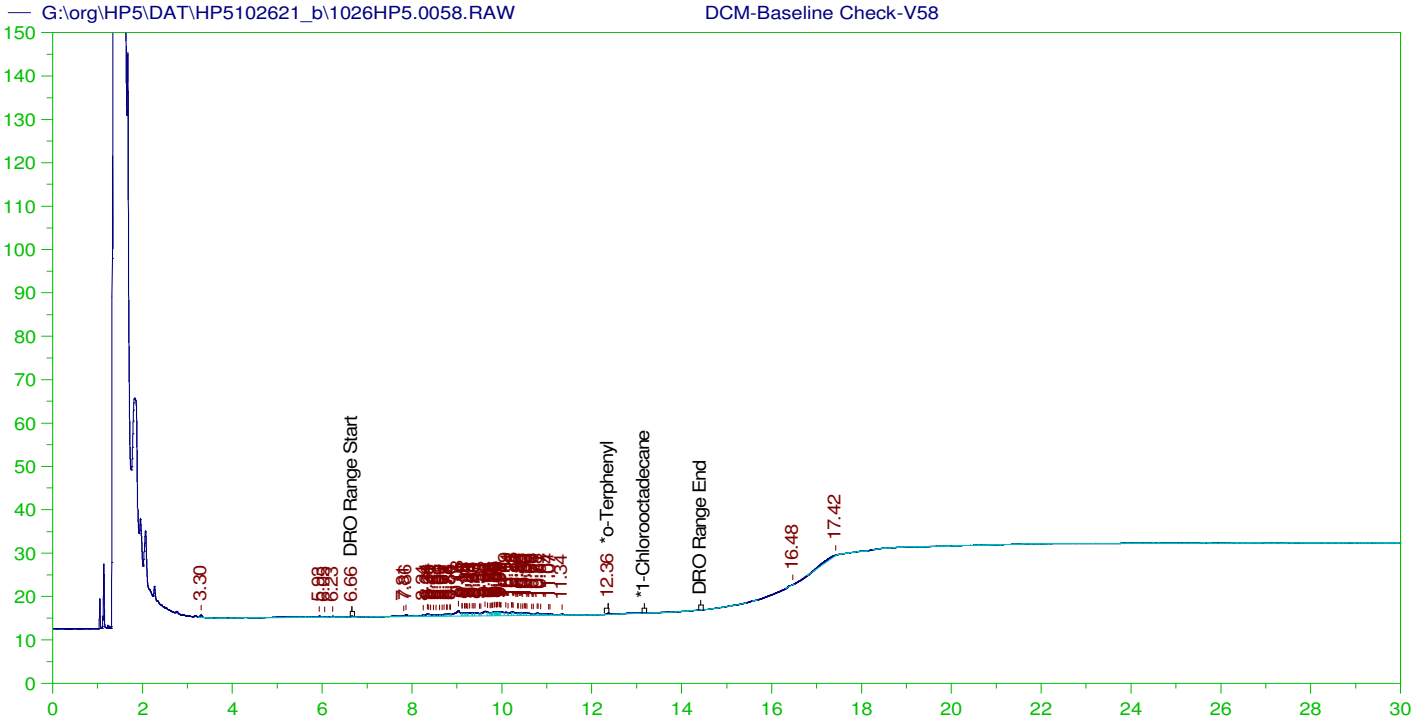
Sample Name: B21101904-001B ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0057.RAW
Date & Time Acquired: 10/28/2021 12:06:28 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.31 | .19 | .186 | 98.21 | - |
| *1-Chlorooctadecane | 29.992 | .19 | . | . | - |
| *#Triacontane | 16.363 | .19 | .08 | 42.32 | - |

DRO Area:458777.3 DRO Amount: 1.476237E-02
TEH Area:1703848 TEH Amount: 5.482581E-02

G:\org\HP5\dat\HP5102621_b\Review\057_B21101904-001B_DS_8015-C24T-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V58
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0058.RAW
Date & Time Acquired: 10/28/2021 12:49:28 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

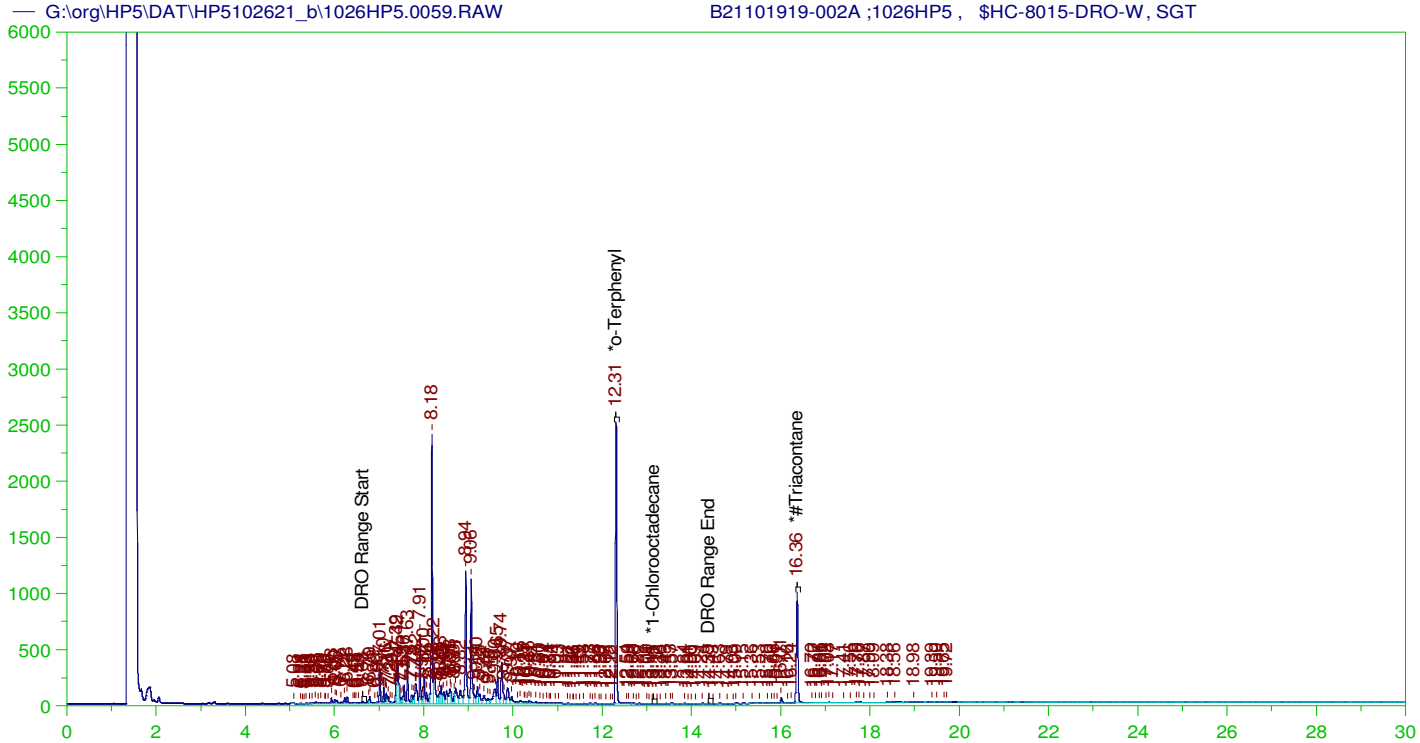
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.363 | 200. | .041 | .02 | - |
| *1-Chlorooctadecane | 29.971 | 200. | . | . | - |

DRO Area:123489.5 DRO Amount: 4.192148
TEH Area:163083.1 TEH Amount: 5.536247

G:\org\HP5\dat\HP5102621_b\Review\058_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls

**ERH1828 (RHMW02)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0059.RAW B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0059.RAW
Date & Time Acquired: 10/28/2021 1:32:30 AM
Method File: G:\Org\HP5\Methods\DR_8015-102659-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

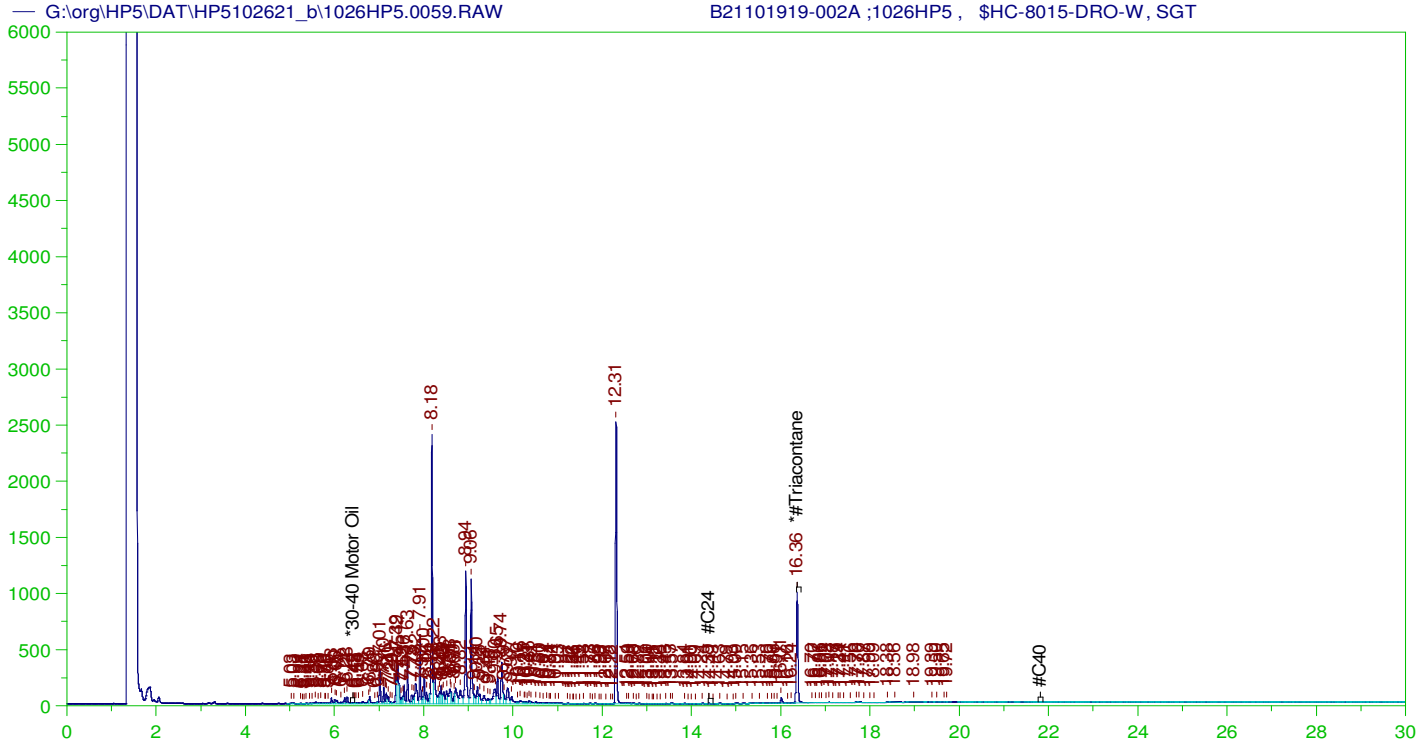
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.308 | .19 | .132 | 69.23 | - |
| *1-Chlorooctadecane | 13.149 | .19 | . | .03 | - |
| *#Triacontane | 16.364 | .19 | .085 | 44.44 | - |

DRO Area:2.438099E+07 DRO Amount: 0.7882586
TEH Area:2.540223E+07 TEH Amount: 0.821276

G:\org\HP5\dat\HP5102621_b\Review\059_B21101919-002A_DR_8015-102659-HU-L%.xls

**ERH1828 (RHMW02)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0059.RAW B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0059.RAW
Date & Time Acquired: 10/28/2021 1:32:30 AM
Method File: G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017ABb-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.87

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.364 | .476 | .085 | 17.77 | - |

RRO Area:312423.6 RRO AMOUNT: 1.042471E-02

G:\org\HP5\dat\HP5102621_b\Review\059_B21101919-002A_DR_OROS-ABb-L%.xls

**ERH1828 (RHMW02)** Batch ID: 160655

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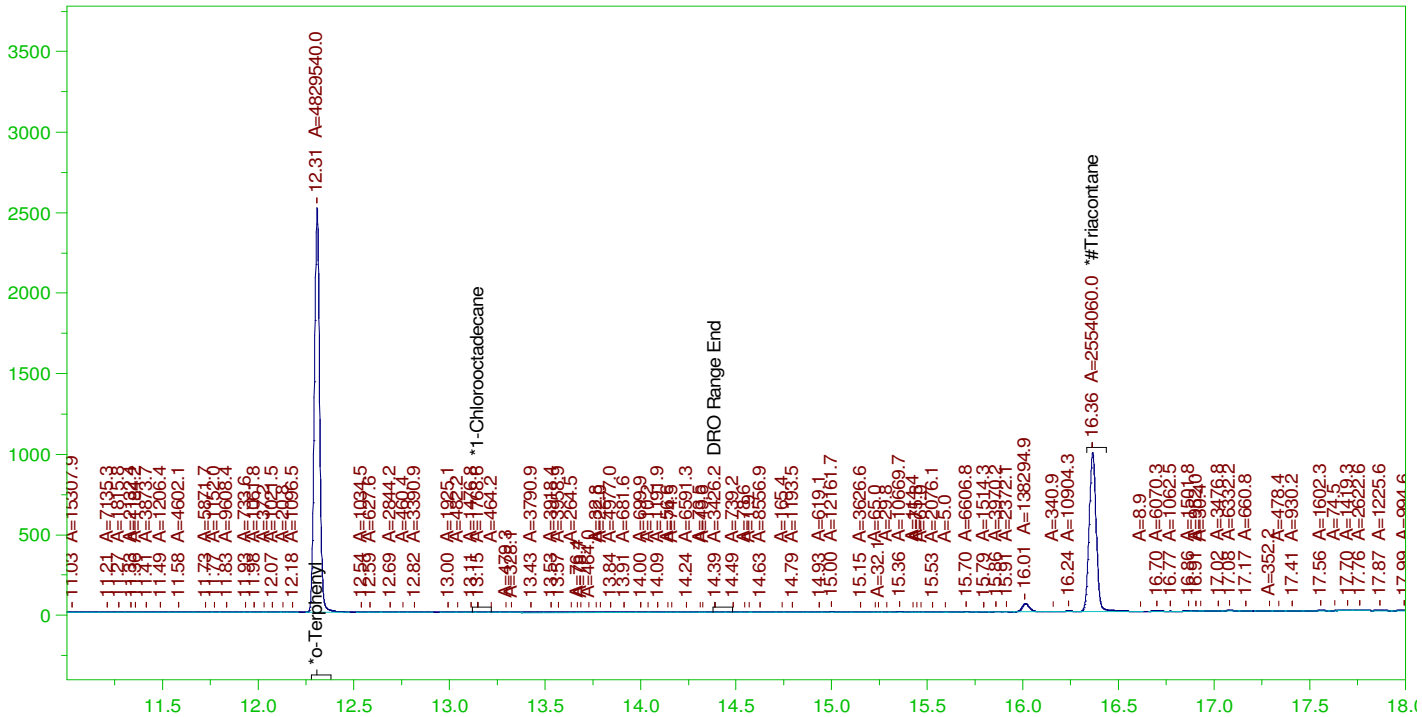



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0059.RAW
Date & Time Acquired: 10/28/2021 1:32:30 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

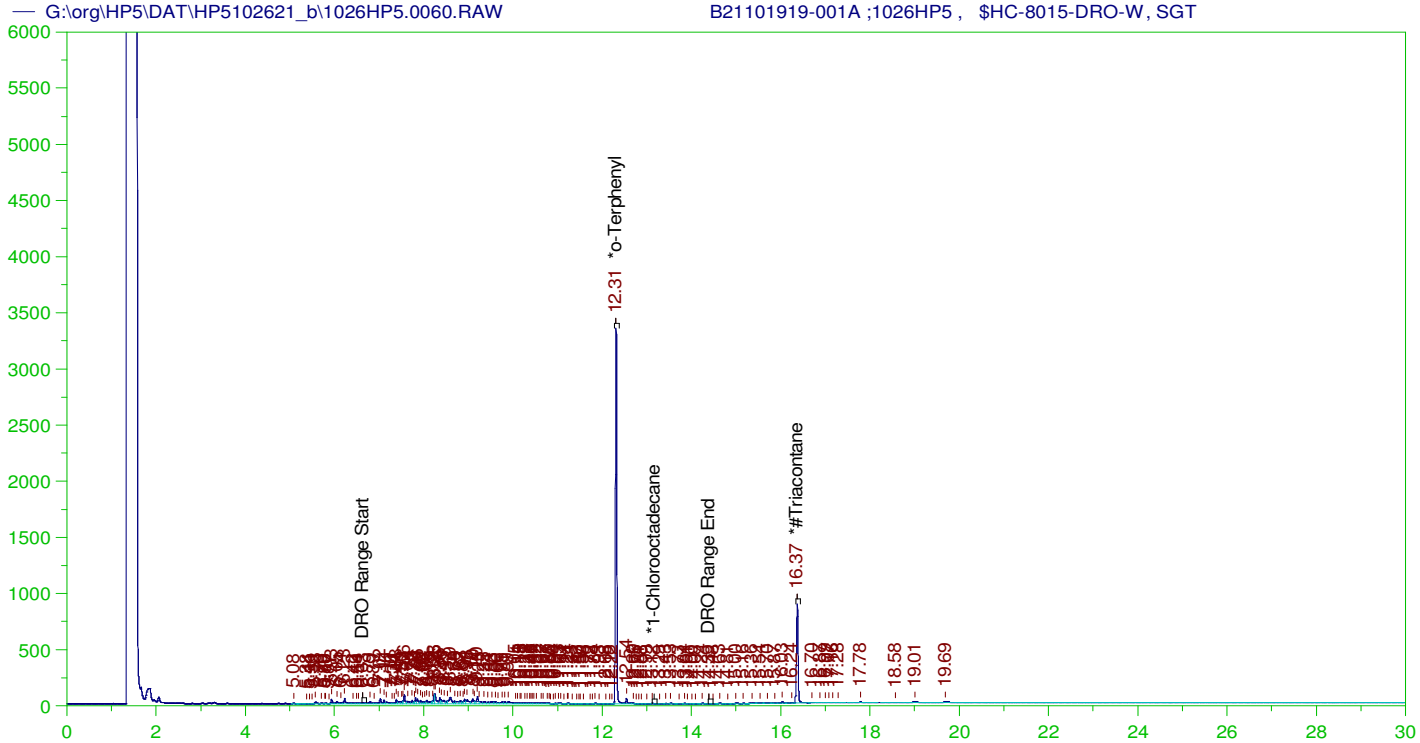
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.308 | .19 | .131 | 68.85 | - |
| *1-Chlorooctadecane | 13.149 | .19 | . | .03 | - |
| *#Triacontane | 16.364 | .19 | .084 | 44.14 | - |

DRO Area:2.448665E+07 DRO Amount: 0.7916746
TEH Area:2.571503E+07 TEH Amount: 0.8313891

**ERH1834 (RHMW01R)** Batch ID: 160655

— G:\org\HP5\DAT\HP5102621_b\1026HP5.0060.RAW B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0060.RAW
Date & Time Acquired: 10/28/2021 2:15:28 AM
Method File: G:\Org\HP5\Methods\DR_8015-102659-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.309 | .192 | .175 | 90.93 | - |
| *1-Chlorooctadecane | 29.965 | .192 | . | . | - |
| *#Triacontane | 16.365 | .192 | .078 | 40.52 | - |

DRO Area:4240949 DRO Amount: 0.138432
TEH Area:4798575 TEH Amount: 0.1566338

G:\org\HP5\dat\HP5102621_b\Review\060_B21101919-001A_DR_8015-102659-HU-L%.xls

**ERH1834 (RHMW01R)** Batch ID: 160655

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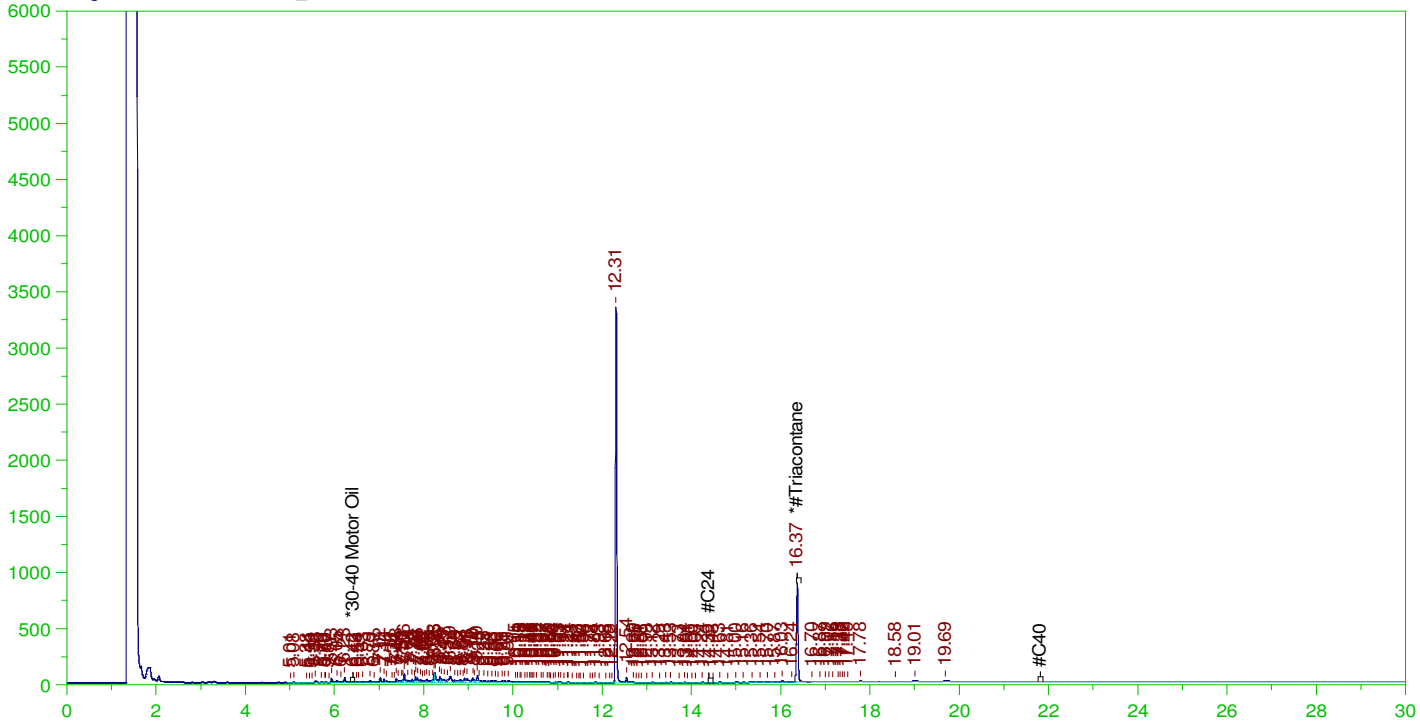


**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0060.RAW
Date & Time Acquired: 10/28/2021 2:15:28 AM
Method File: G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017ABb-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.38 to 21.87

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.365 | .481 | .078 | 16.21 | - |

RRO Area:183866.4 RRO AMOUNT: 6.194102E-03

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**ERH1834 (RHMW01R)** Batch ID: 160655

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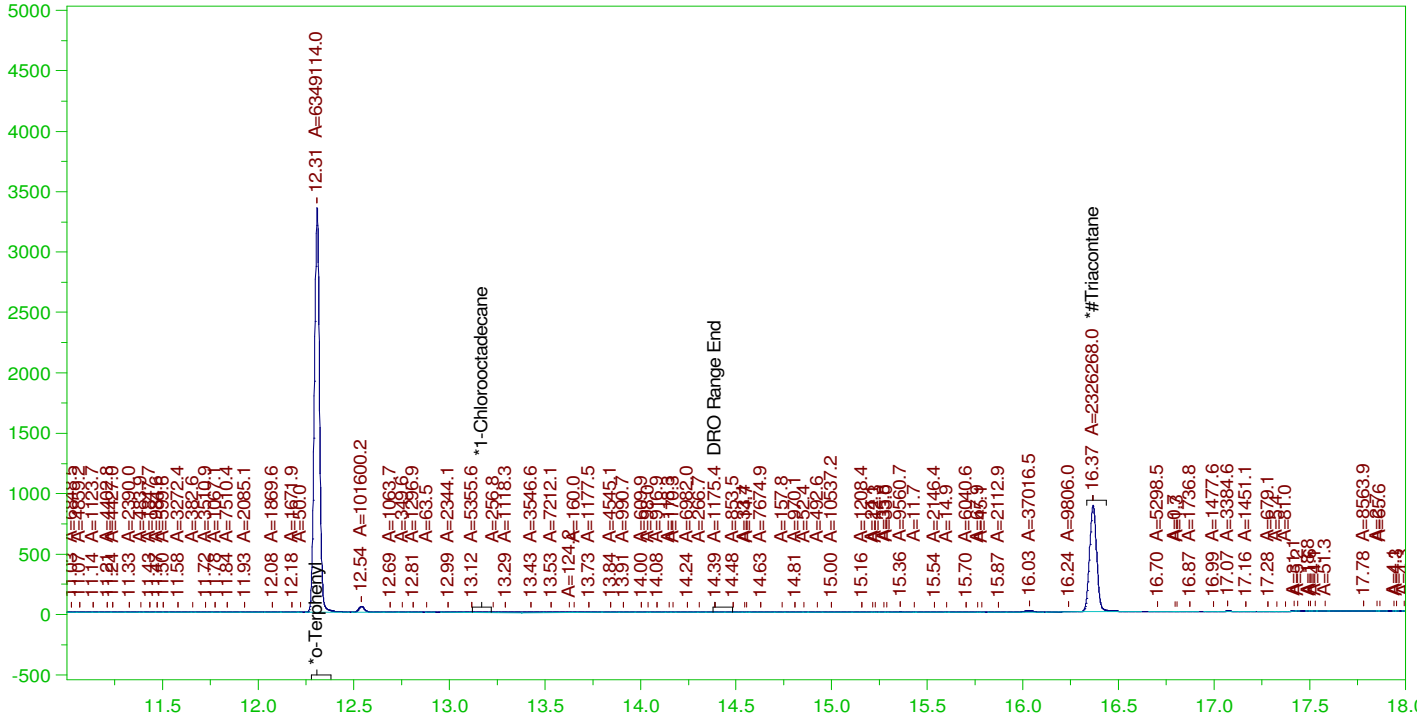



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0060.RAW
Date & Time Acquired: 10/28/2021 2:15:28 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24-tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

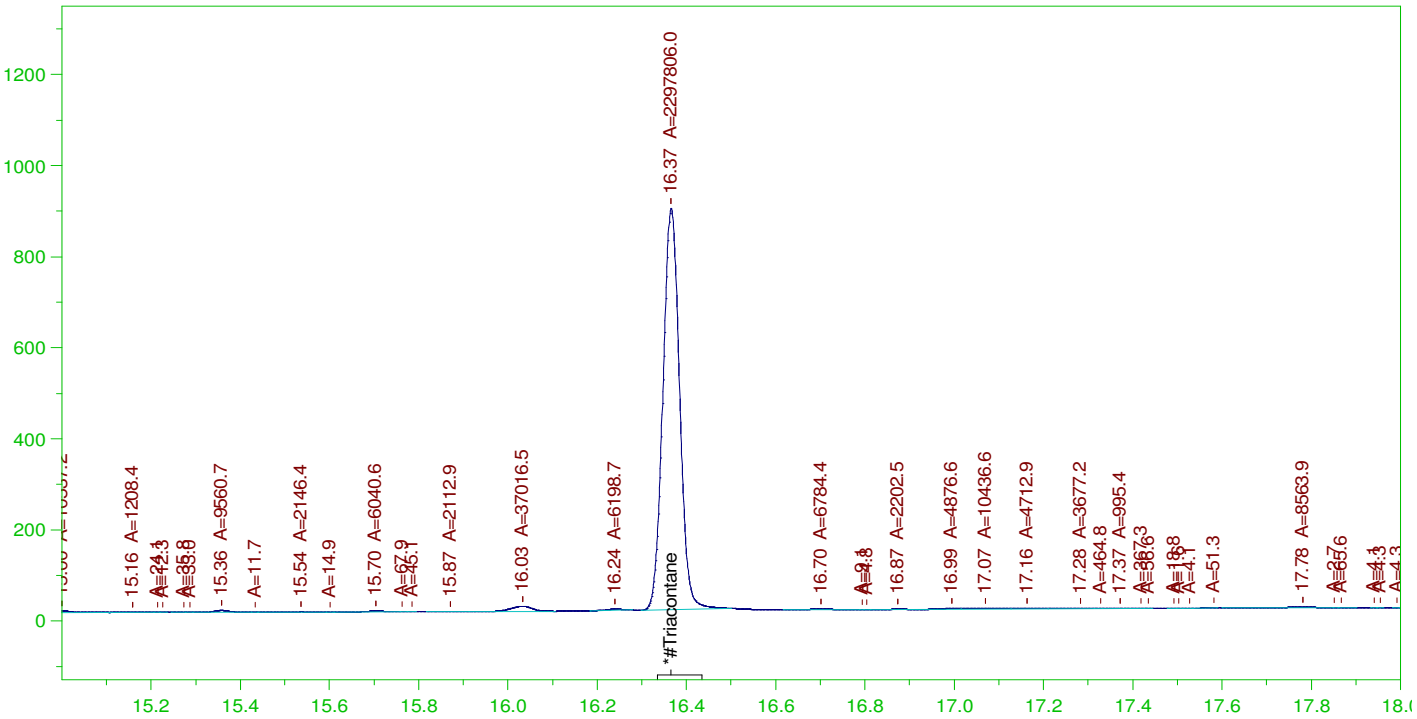
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.309 | .192 | .174 | 90.52 | - |
| *1-Chlorooctadecane | 29.965 | .192 | . | . | - |
| *#Triacontane | 16.365 | .192 | .077 | 40.2 | - |

DRO Area:4271425 DRO Amount: 0.1394267
TEH Area:4958172 TEH Amount: 0.1618433

G:\org\HP5\dat\HP5102621_b\Review\060_B21101919-001A_DS_8015-C24T-HU-L#.xls

**ERH1834 (RHMW01R)** Batch ID: 160655

— G:\Org\HP5\DAT\HP5102621_b\1026HP5.0060.RAW B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\Org\HP5\DAT\HP5102621_b\1026HP5.0060.RAW
Date & Time Acquired: 10/28/2021 2:15:28 AM
Method File: G:\Org\HP5\Methods\DS_ORO-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

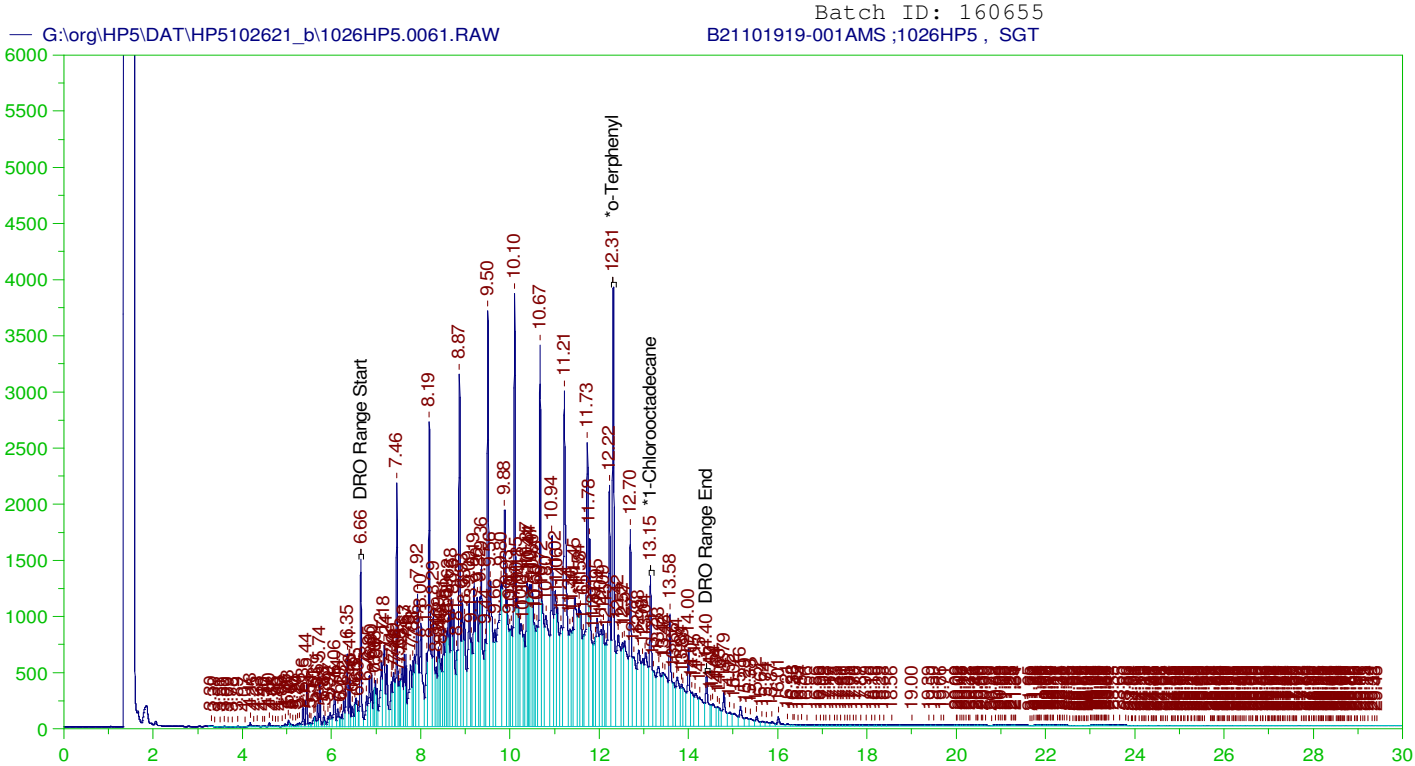
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.365 | .481 | .076 | 15.89 | - |

RRO Area:197213.8 RRO AMOUNT: 6.643749E-03

G:\org\HP5\dat\HP5102621_b\Review\060_B21101919-001A_DS_ORO-AB-L#.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-001AMS ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0061.RAW
Date & Time Acquired: 10/28/2021 2:58:28 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 530 Dilution: 1 S.A.: 1

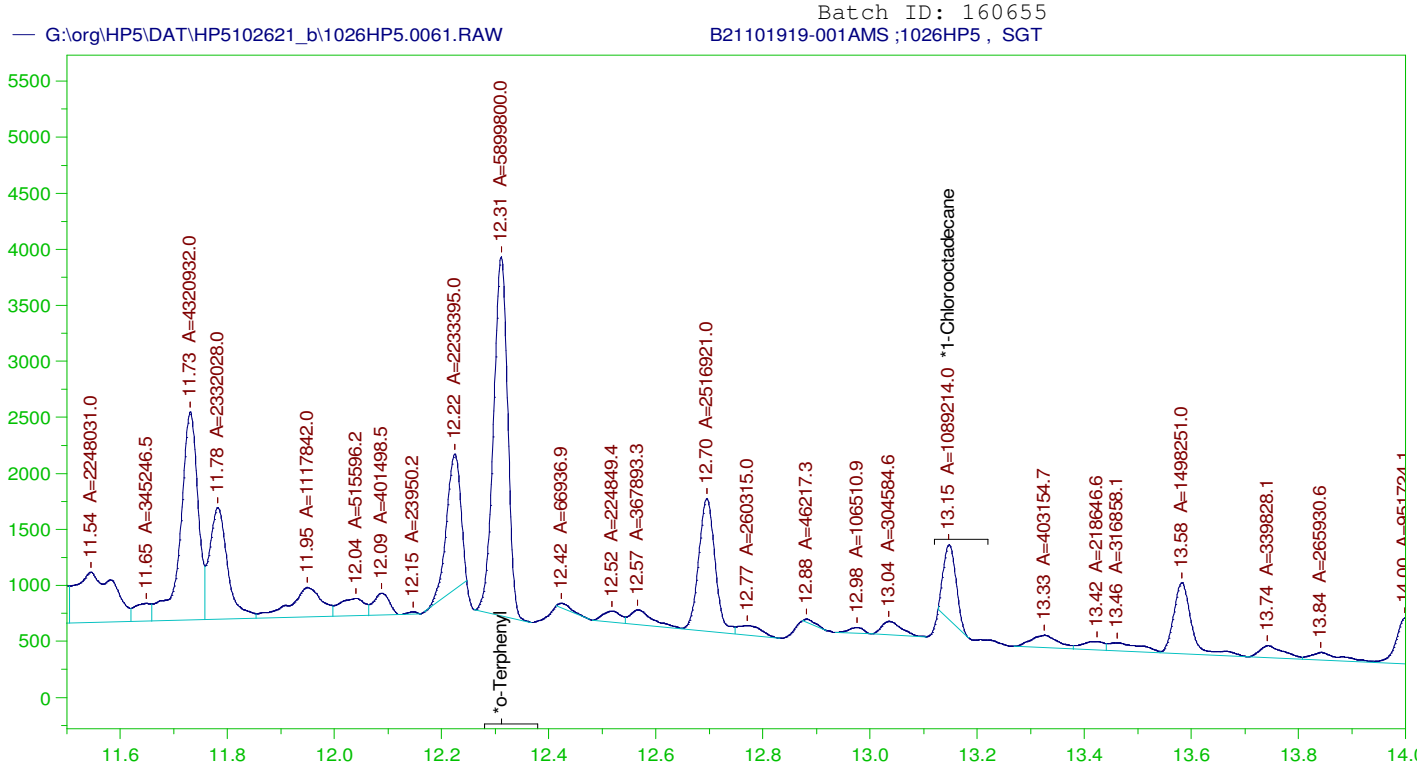
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.311 | .377 | .56 | 148.29 | - |
| *1-Chlorooctadecane | 13.147 | .377 | .237 | 62.82 | - |

DRO Area:3.557453E+08 DRO Amount: 22.78609
TEH Area:3.789297E+08 TEH Amount: 24.2711

G:\org\HP5\dat\HP5102621_b\Review\061_B21101919-001AMS_D3_8015-C24-HU-L%.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21101919-001AMS ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0061.RAW
Date & Time Acquired: 10/28/2021 2:58:28 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 530 Dilution: 1 S.A.: 1

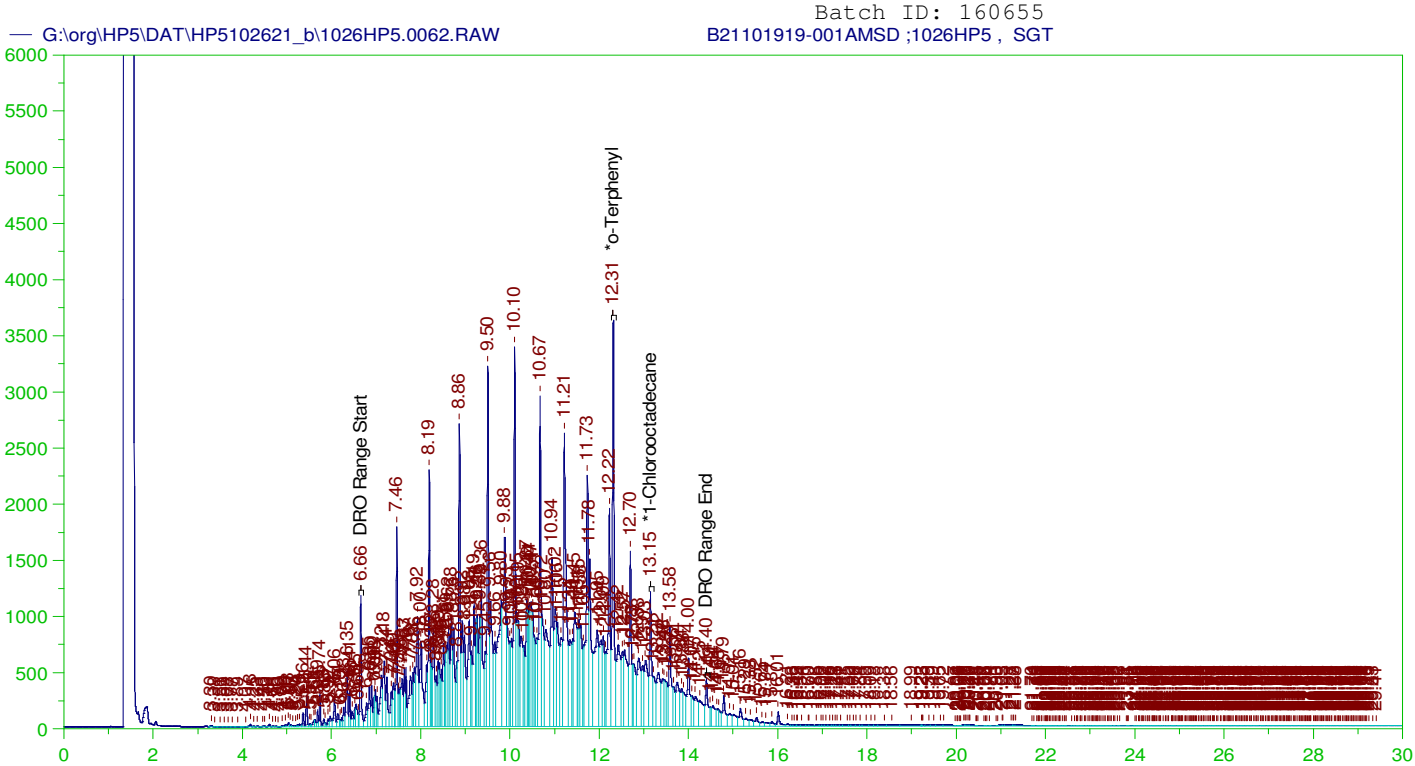
Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.311 | .377 | .317 | 84.11 | - |
| *1-Chlorooctadecane | 13.147 | .377 | .059 | 15.53 | - |

DRO Area:1.72744E+08 DRO Amount: 11.06455
TEH Area:1.830553E+08 TEH Amount: 11.725

G:\org\HP5\dat\HP5102621_b\Review\061_B21101919-001AMS_DS_8015-area-HU-L#.xls

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

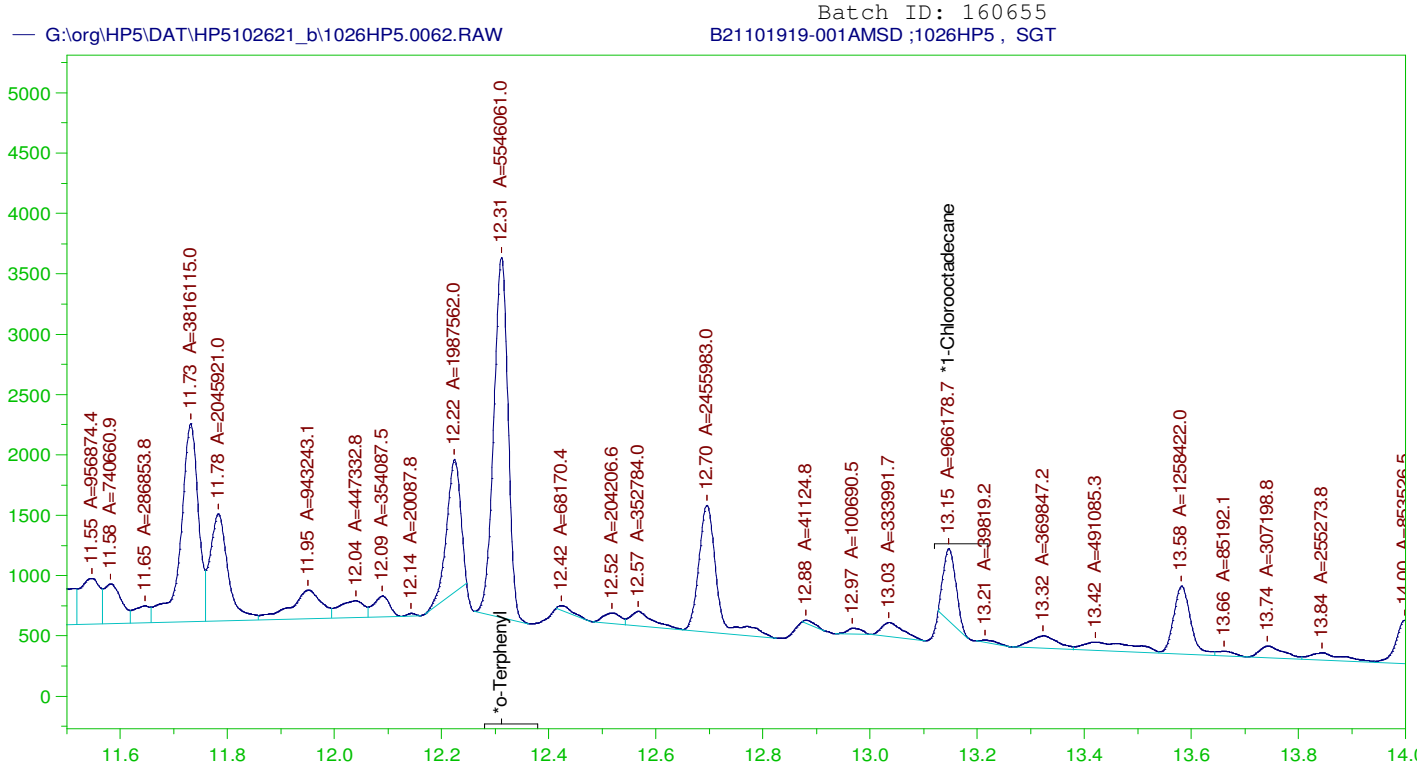
Sample Name: B21101919-001AMSD ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0062.RAW
Date & Time Acquired: 10/28/2021 3:41:23 AM
Method File: G:\Org\HP5\Methods\D3_8015-102662-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 530 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.312 | .377 | .506 | 134.21 | - |
| *1-Chlorooctadecane | 13.147 | .377 | .218 | 57.85 | - |

DRO Area:3.089482E+08 DRO Amount: 19.78866
TEH Area:3.287517E+08 TEH Amount: 21.05711

Batch ID: 160655




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

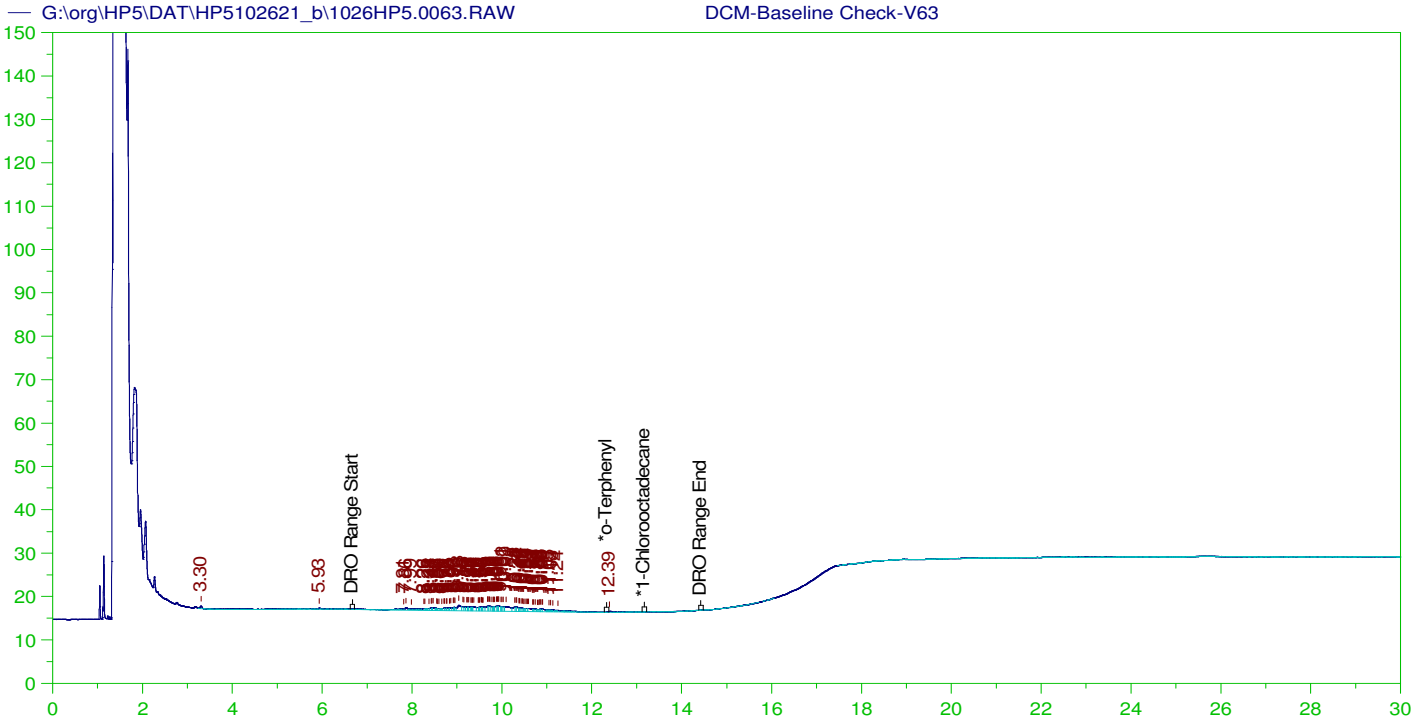
Sample Name: B21101919-001AMSD ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0062.RAW
Date & Time Acquired: 10/28/2021 3:41:23 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 530 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.312 | .377 | .298 | 79.07 | - |
| *1-Chlorooctadecane | 13.147 | .377 | .052 | 13.77 | - |

DRO Area:1.464116E+08 DRO Amount: 9.377911
TEH Area:1.543294E+08 TEH Amount: 9.885063

G:\org\HP5\dat\HP5102621_b\Review\062_B21101919-001AMSD_DS_8015-area-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

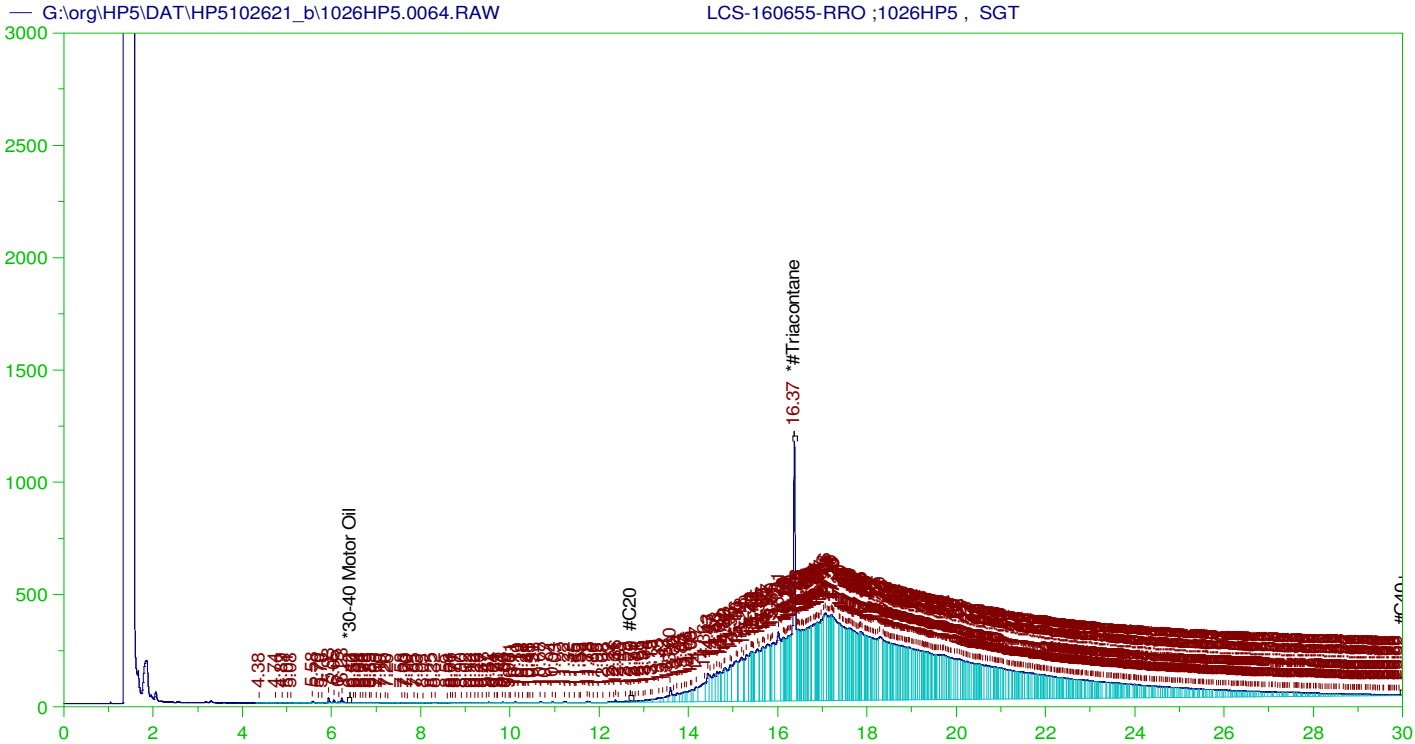
Sample Name: DCM-Baseline Check-V63
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0063.RAW
Date & Time Acquired: 10/28/2021 4:24:18 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.99 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.99 | 200. | . | . | - |

DRO Area:150118.2 DRO Amount: 5.096124
TEH Area:170919.4 TEH Amount: 5.802269

G:\org\HP5\dat\HP5102621_b\Review\063_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: LCS-160655-RRO ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0064.RAW
Date & Time Acquired: 10/28/2021 5:07:12 AM
Method File: G:\Org\HP5\Methods\D3_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.367 | .5 | .147 | 29.48 | - |

~~RRO~~ TEH(Oil Range)Area:1.18864E+08 ~~RRO~~ TEH(Oil Range)AMOUNT: 4.16447

AMN 11/01/2021

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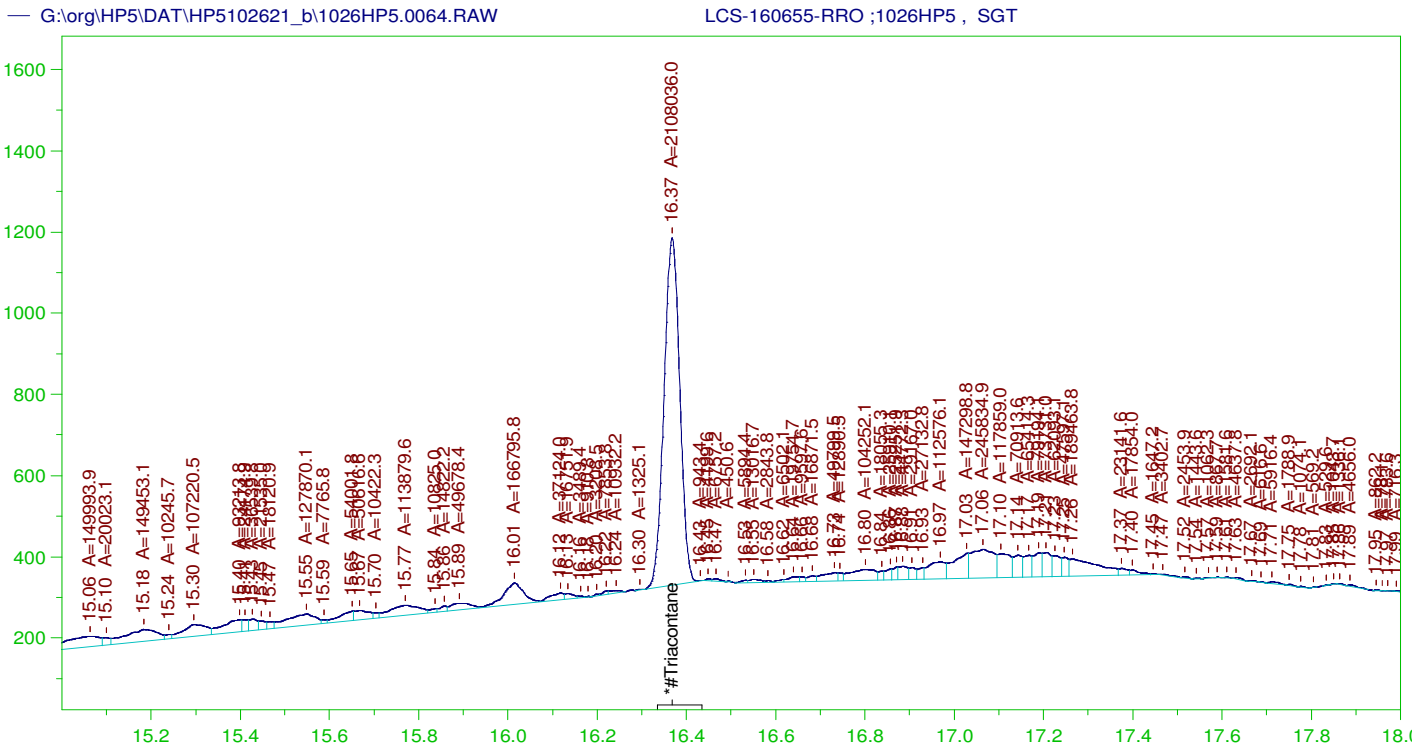



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

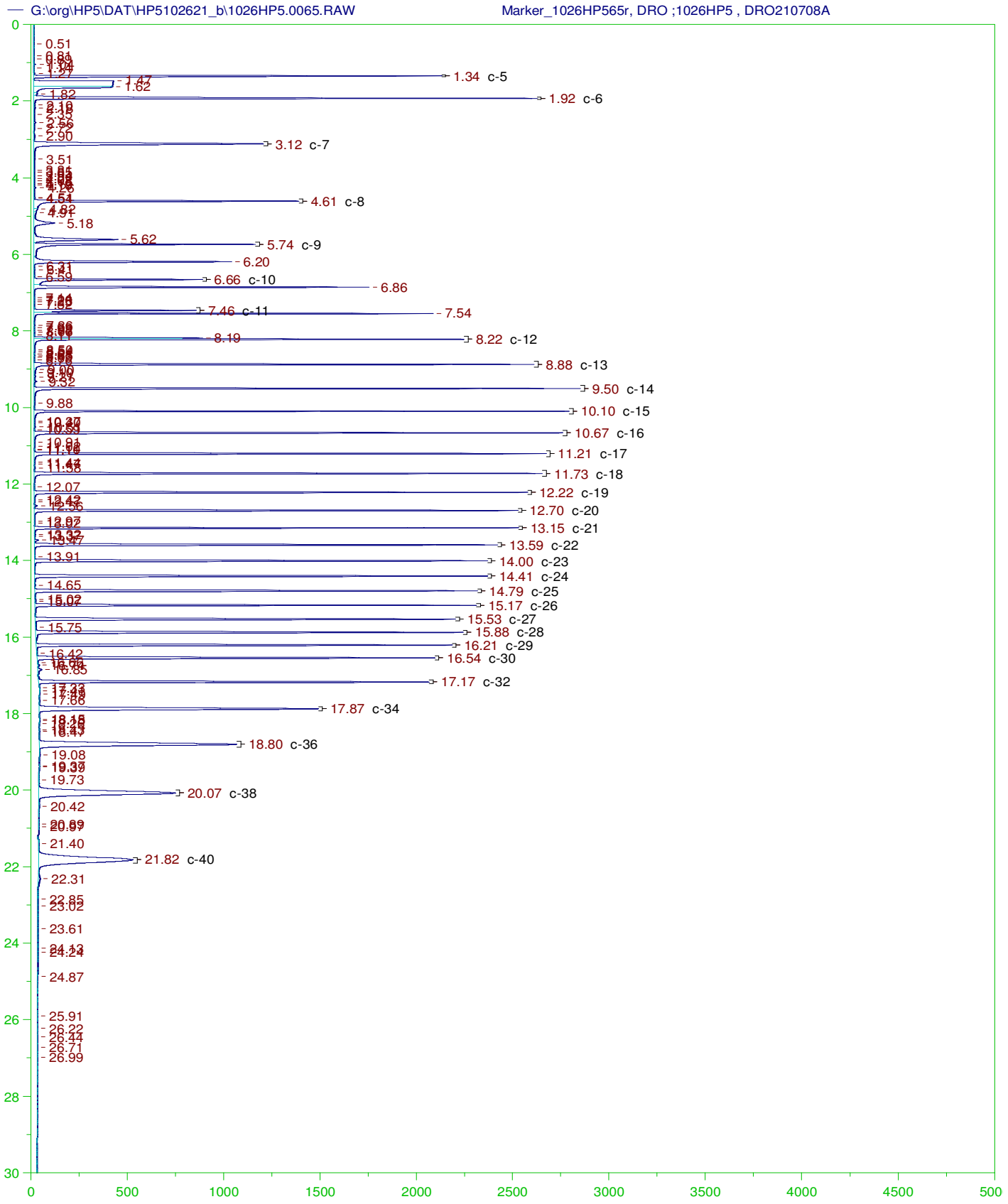
Sample Name: LCS-160655-RRO ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0064.RAW
Date & Time Acquired: 10/28/2021 5:07:12 AM
Method File: G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.367 | .5 | .073 | 14.57 | - |

RRO Area:4255947 RRO AMOUNT: 0.1491096

G:\org\HP5\dat\HP5102621_b\Review\064_LCS-160655-RRO_DS_ORO-102664-AB-L#.xls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Marker_1026HP565r, DRO ;1026HP5 , DRO210708A
1.34 c-5
1.92 c-6
3.12 c-7
4.61 c-8
5.74 c-9
6.66 c-10
7.46 c-11
8.22 c-12
8.88 c-13
9.50 c-14
10.10 c-15
10.67 c-16
11.21 c-17
11.73 c-18
12.22 c-19
12.70 c-20
13.15 c-21
13.59 c-22
14.00 c-23
14.41 c-24
14.79 c-25
15.17 c-26
15.53 c-27
15.88 c-28
16.21 c-29
16.54 c-30
17.17 c-32
17.87 c-34
18.80 c-36
20.07 c-38
21.82 c-40
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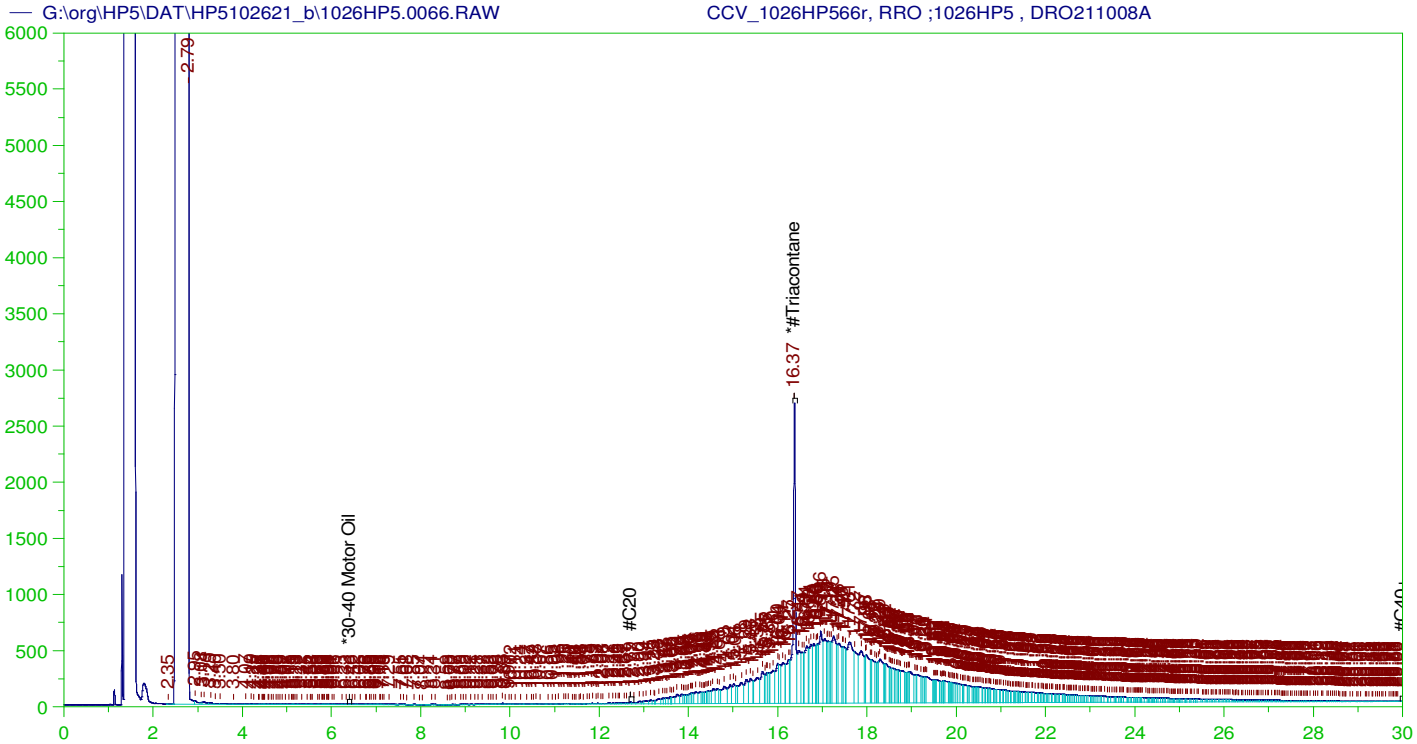



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP566r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0066.RAW
Date & Time Acquired: 10/28/2021 6:32:57 AM
Method File: G:\Org\HP5\Methods\DC_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 500. | 329.466 | 65.89 | - |

~~RRO~~ TEH(Oil Range) Area:1.384976E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4852.345

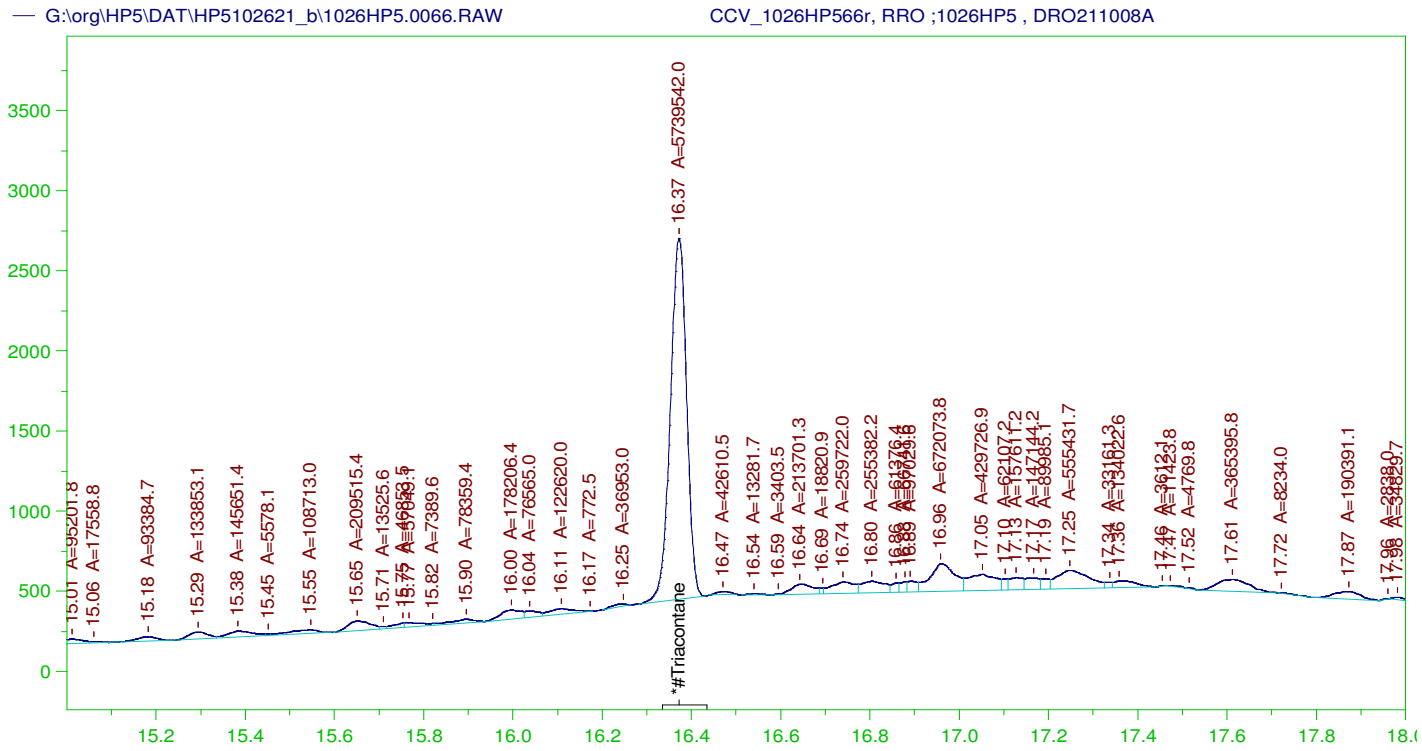
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0066.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 200. | 329.466 | 164.73 | 75-125 |

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\066_CCV_1026HP566r_DC_ORO-AB-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP566r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0066.RAW
Date & Time Acquired: 10/28/2021 6:32:57 AM
Method File: G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

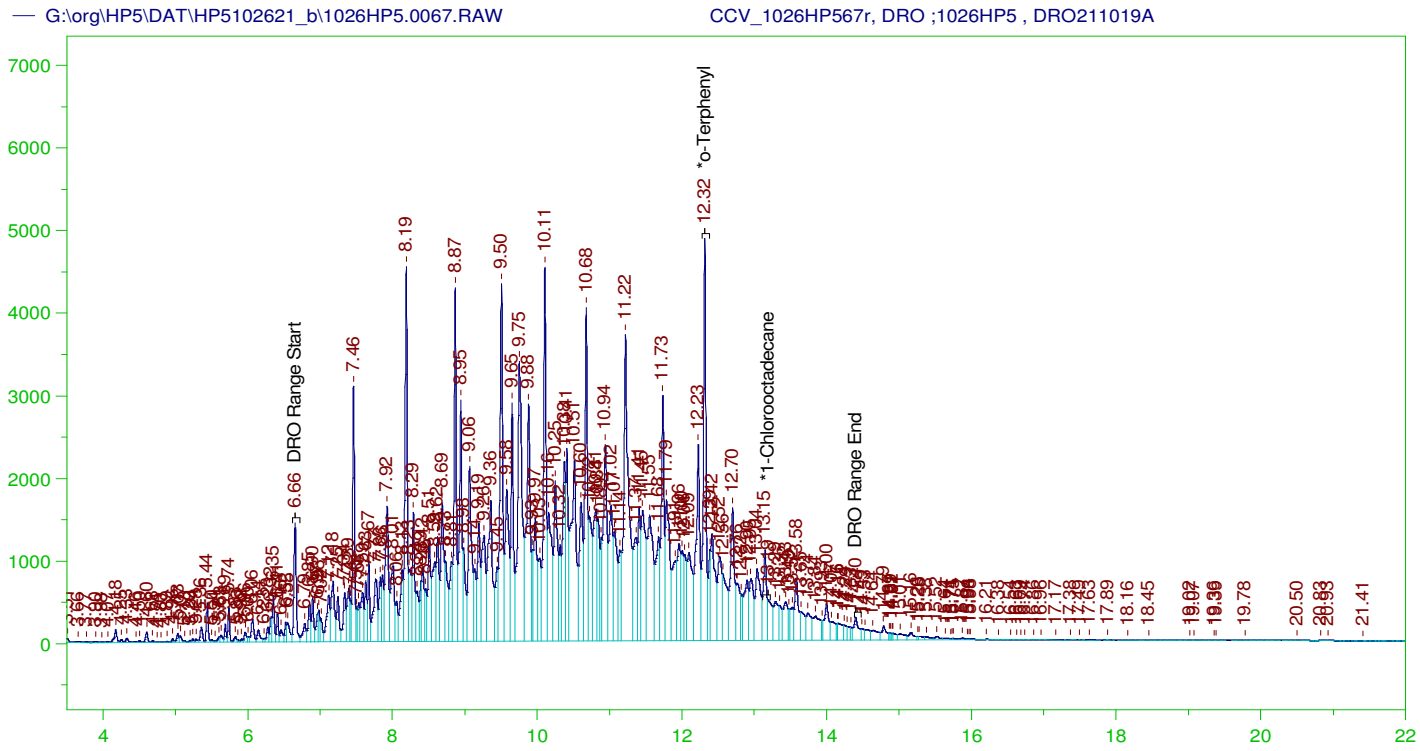
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 500. | 198.393 | 39.68 | - |

RRO Area:6750684 RRO AMOUNT: 236.5141

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0066.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | . | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.372 | 200. | 198.393 | 99.2 | 75-125 |




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP567r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0067.RAW
Date & Time Acquired: 10/28/2021 7:15:45 AM
Method File: G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HU-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.316 | 200. | 348.3 | 174.15 | - |
| *1-Chlorooctadecane | 13.192 | 200. | 54.797 | 27.4 | - |

DRO Area:4.461363E+08 DRO Amount: 15145.17
TEH Area:4.62158E+08 TEH Amount: 15689.07

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0067.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 15689.07 | 104.59 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.316 | 200. | 348.3 | 174.15 | 85-115 |
| *1-Chlorooctadecane | 13.192 | 200. | 54.797 | 27.4 | 85-115 |

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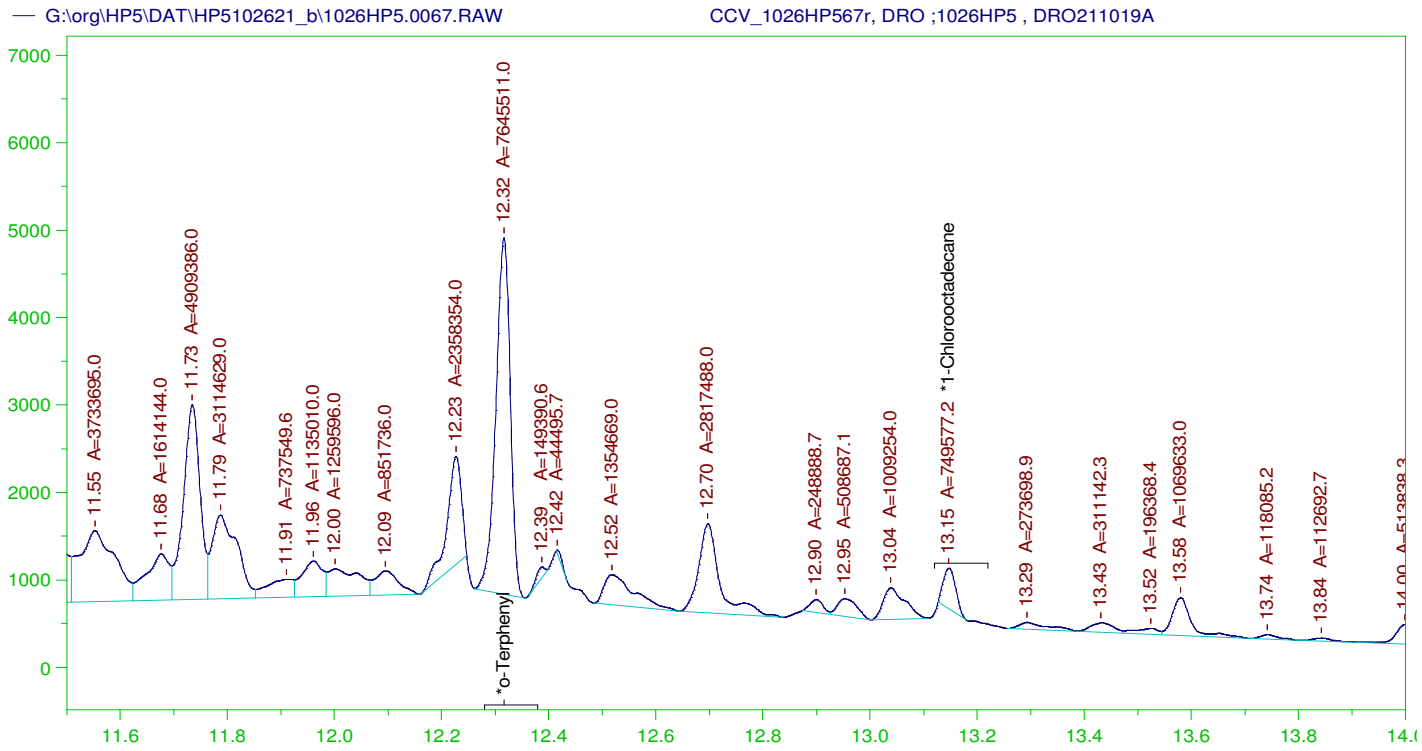



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV_1026HP567r, DRO ;1026HP5 , DRO211019A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0067.RAW
Date & Time Acquired: 10/28/2021 7:15:45 AM
Method File: G:\Org\HP5\Methods\DS_8015-area-HU-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.316 | 200. | 217.999 | 109. | - |
| *1-Chlorooctadecane | 13.147 | 200. | 21.373 | 10.69 | - |

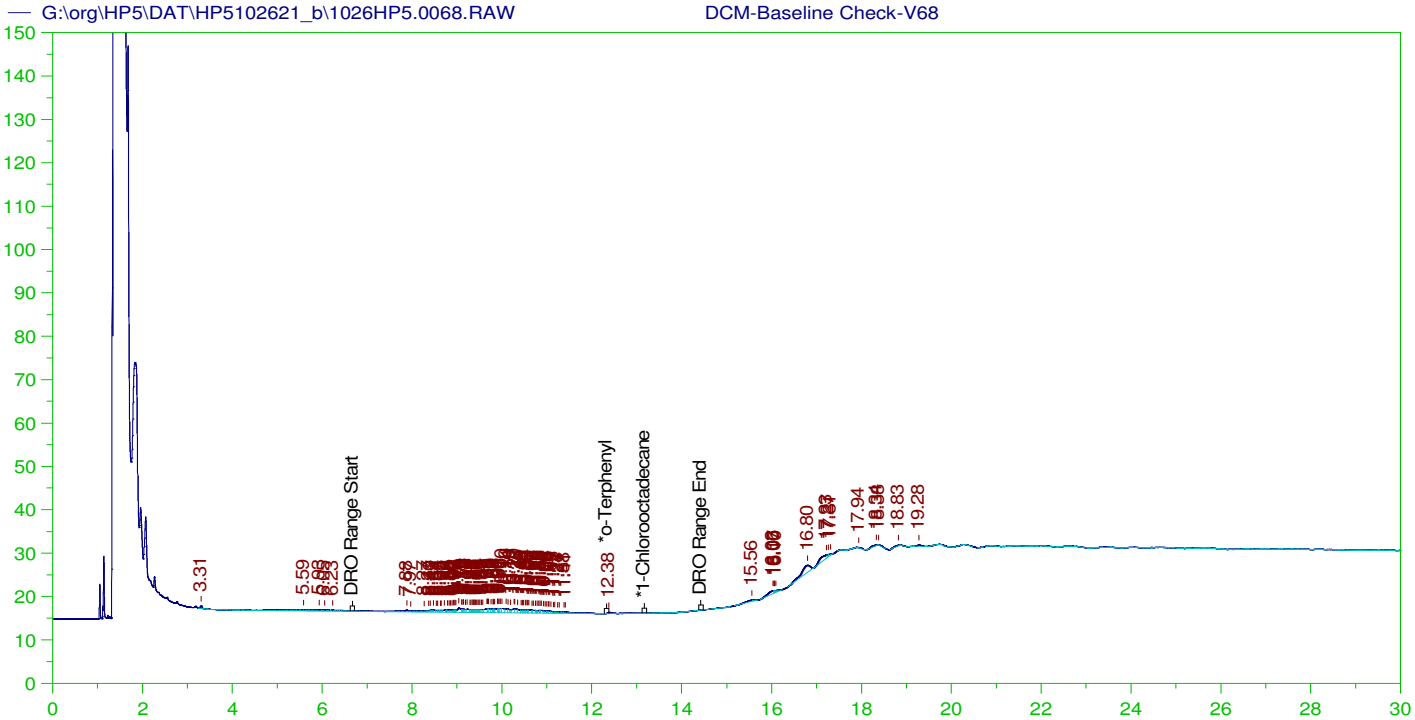
DRO Area:2.510159E+08 DRO Amount: 8521.339
TEH Area:2.611745E+08 TEH Amount: 8866.196

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0067.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| TOTAL DRO | 15000. | 8866.2 | 59.11 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *o-Terphenyl | 12.316 | 200. | 217.999 | 109. | 85-115 |
| *1-Chlorooctadecane | 13.147 | 200. | 21.373 | 10.69 | 85-115 |

G:\org\HP5\dat\HP5102621_b\Review\067_CCV_1026HP567r_DS_8015-area-HU-L#.xls




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

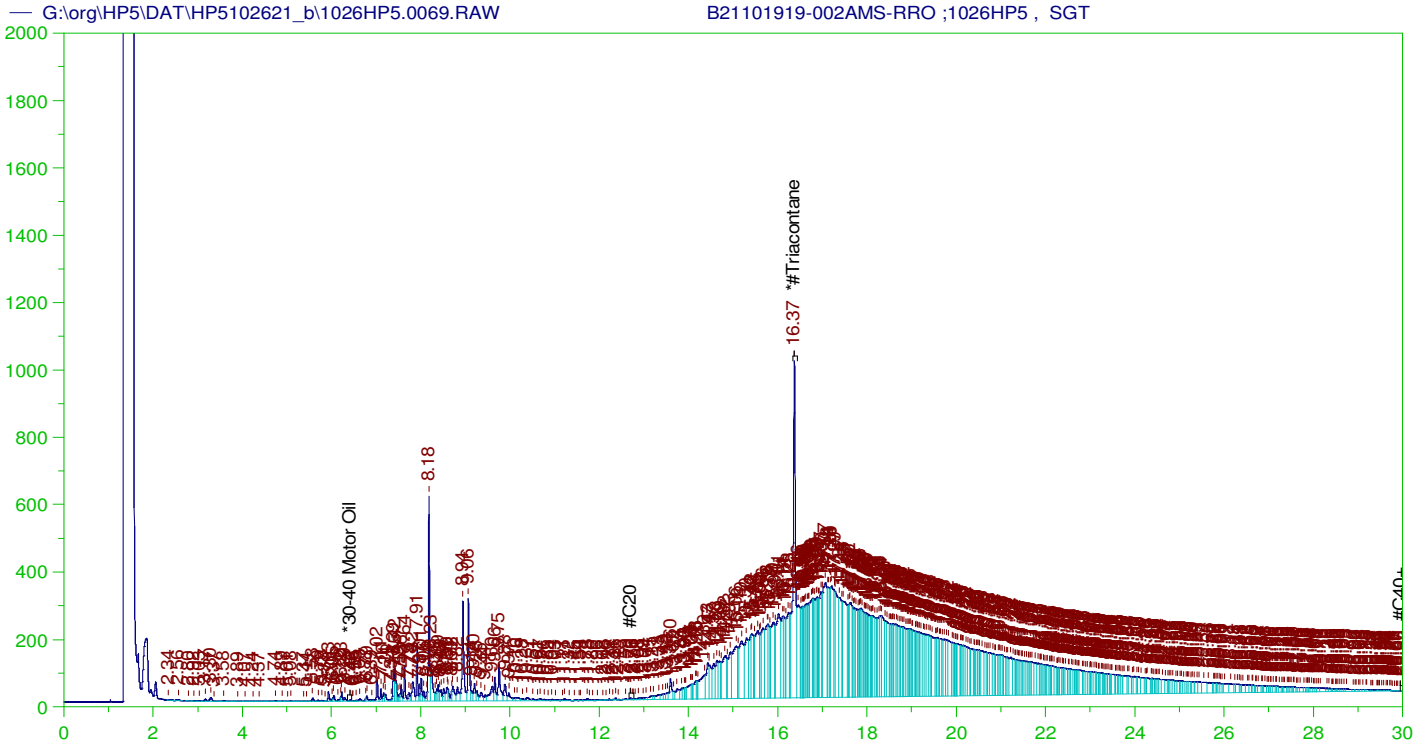
Sample Name: DCM-Baseline Check-V68
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0068.RAW
Date & Time Acquired: 10/28/2021 7:58:25 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.964 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.964 | 200. | . | . | - |

DRO Area:134868.3 DRO Amount: 4.578427
TEH Area:230046.8 TEH Amount: 7.809492

G:\org\HP5\dat\HP5102621_b\Review\068_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls



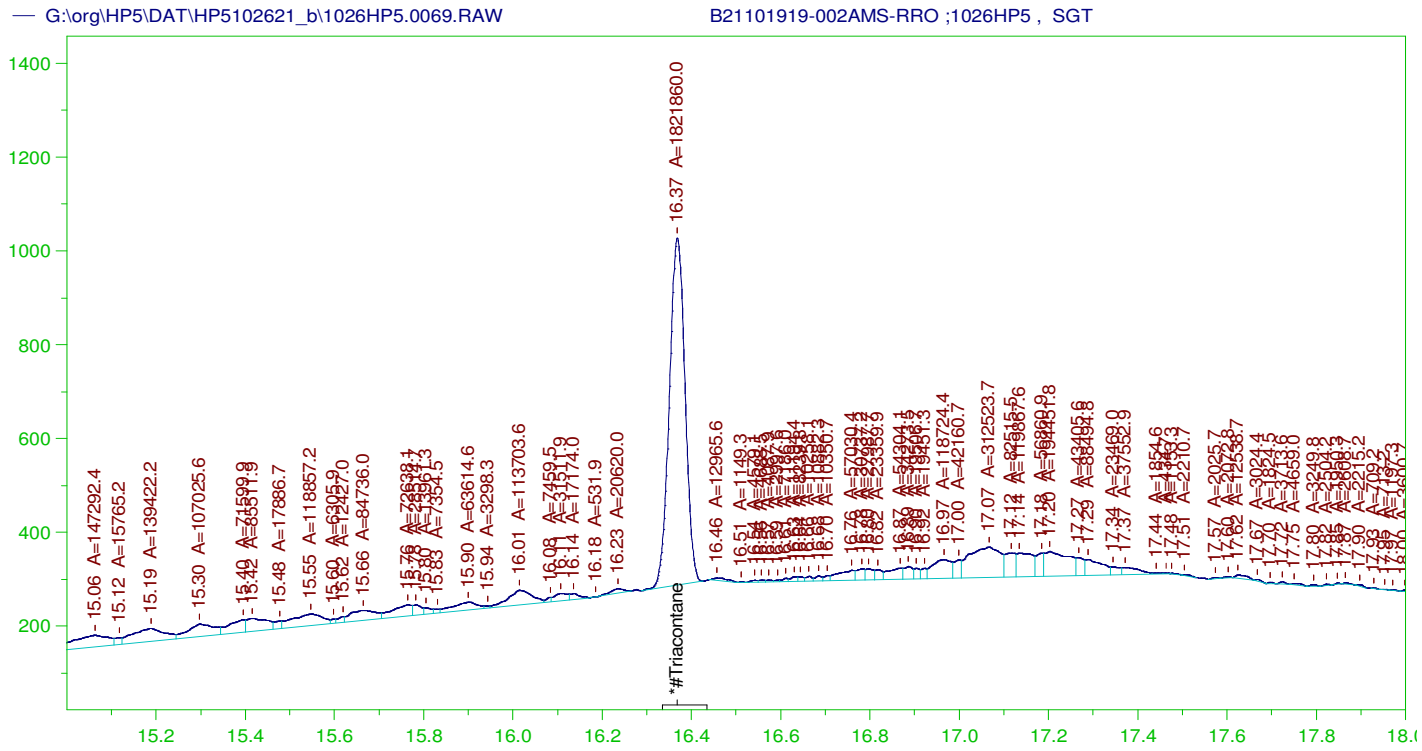

**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002AMS-RRO ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0069.RAW
Date & Time Acquired: 10/28/2021 8:41:04 AM
Method File: G:\Org\HP5\Methods\D3_ORO-102669-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.368 | 1. | .274 | 27.44 | - |

~~RRO~~ TEH(Oil Range) Area:1.027467E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 7.19958



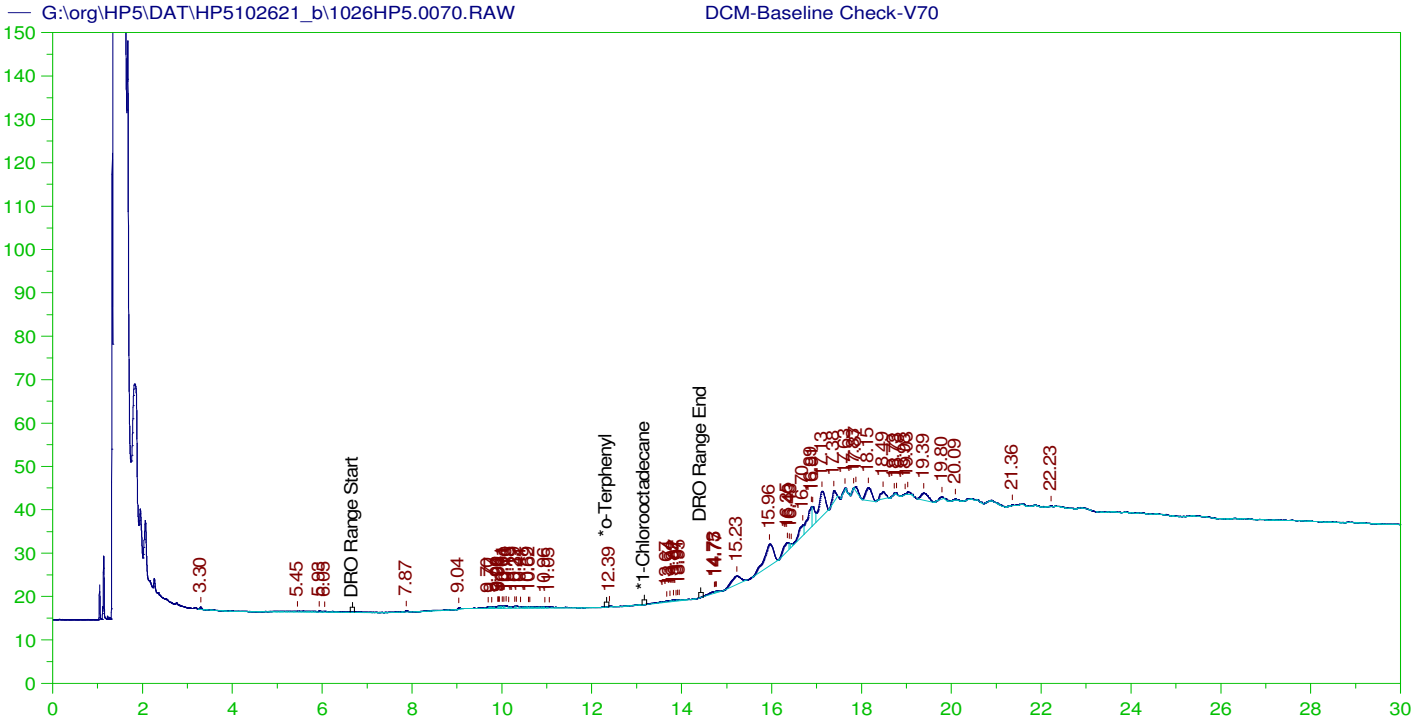

**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002AMS-RRO ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0069.RAW
Date & Time Acquired: 10/28/2021 8:41:04 AM
Method File: G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.368 | 1. | .126 | 12.59 | - |

RRO Area:3735665 RRO AMOUNT: 0.2617624




**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

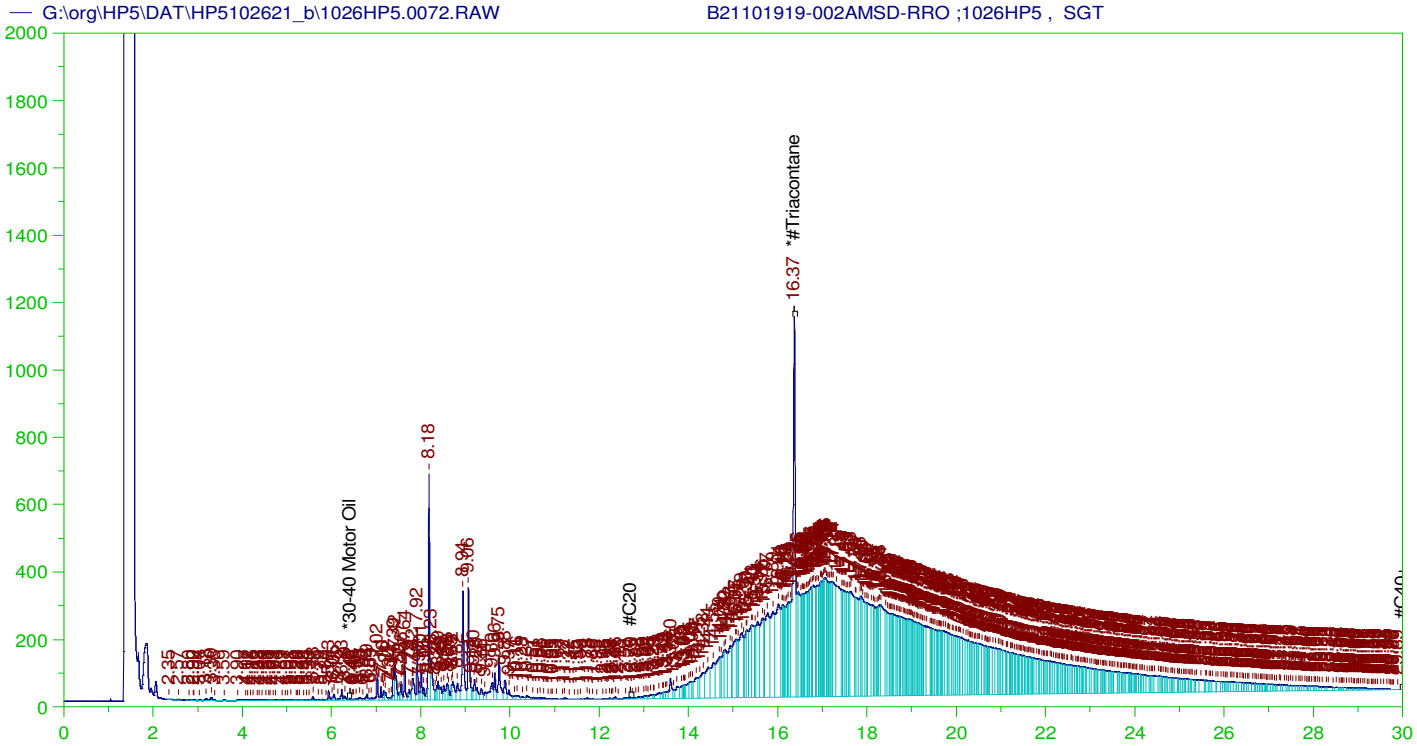
Sample Name: DCM-Baseline Check-V70
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0070.RAW
Date & Time Acquired: 10/28/2021 9:23:56 AM
Method File: G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hu-C24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.62 to 14.48

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | | %REC |
|---|---|---|---|---|---|
| *o-Terphenyl | 29.978 | 200. | . | . | - |
| *1-Chlorooctadecane | 29.978 | 200. | . | . | - |

DRO Area:54506.81 DRO Amount: 1.850365
TEH Area:451444.5 TEH Amount: 15.32537

G:\org\HP5\dat\HP5102621_b\Review\070_DCM-Baseline Chec_DR_8015-24-HU-LEXP.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002AMSD-RRO ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0072.RAW
Date & Time Acquired: 10/28/2021 10:51:01 AM
Method File: G:\Org\HP5\Methods\D3_ORO-102669-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

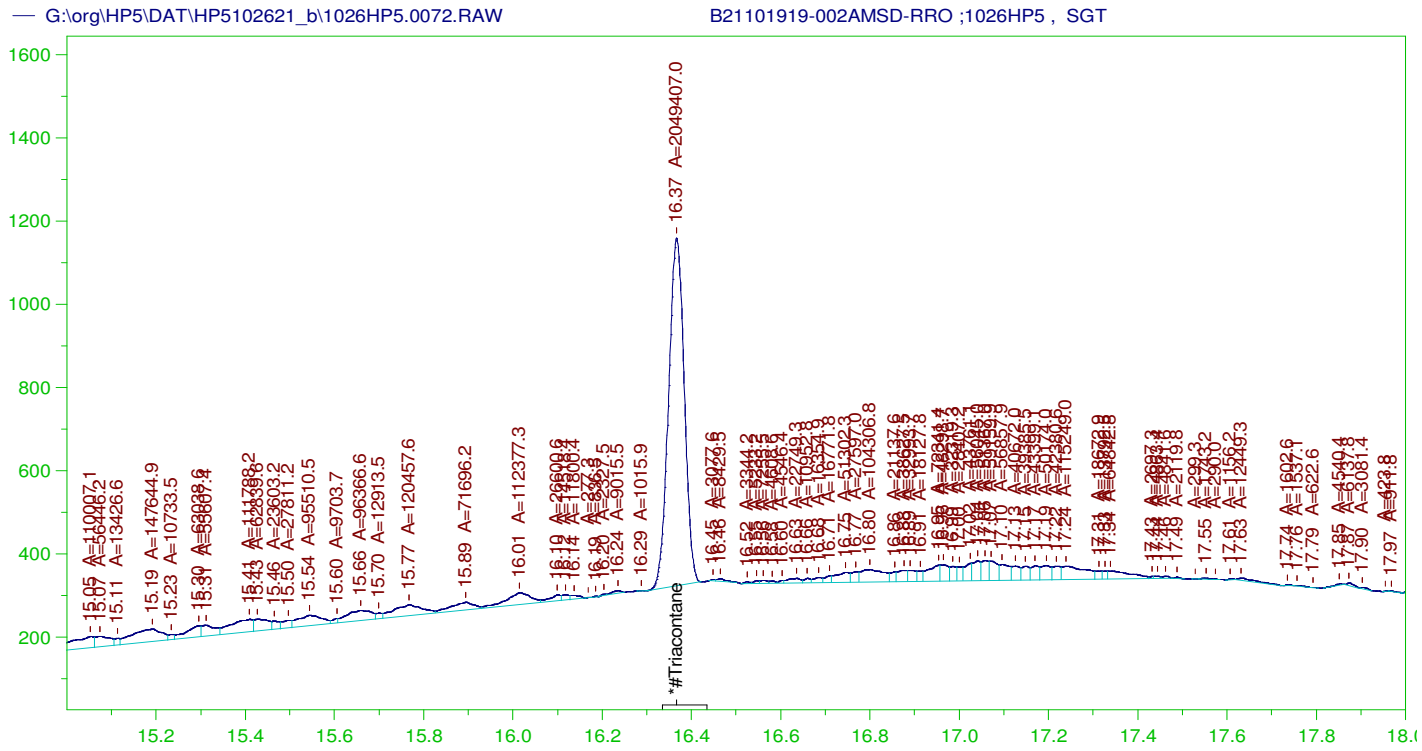
Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.366 | 1. | .288 | 28.84 | - |

~~RRO~~ TEH(Oil Range) Area:1.14221E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 8.003597

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\072_B21101919-002AMSD-RRO_D3_ORO-102669-AB-L%.xls



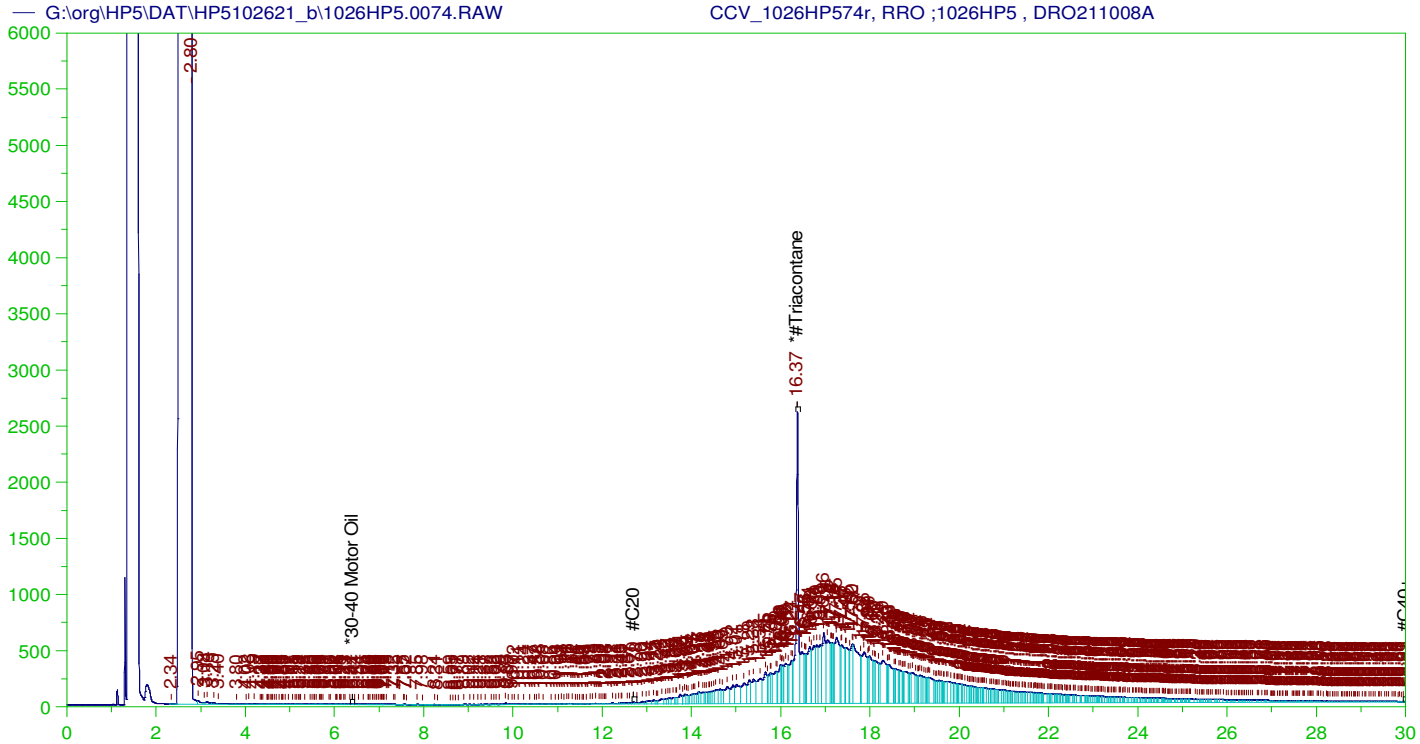

**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21101919-002AMSD-RRO ;1026HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0072.RAW
Date & Time Acquired: 10/28/2021 10:51:01 AM
Method File: G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 500 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.366 | 1. | .142 | 14.17 | - |

RRO Area:3492775 RRO AMOUNT: 0.2447428




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP574r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0074.RAW
Date & Time Acquired: 10/28/2021 12:16:34 PM
Method File: G:\Org\HP5\Methods\DC_ORO-AB-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.37 | 500. | 330.644 | 66.13 | - |

~~RRO~~ TEH(Oil Range)Area:1.351331E+08 ~~RRO~~ TEH(Oil Range)AMOUNT: 4734.466

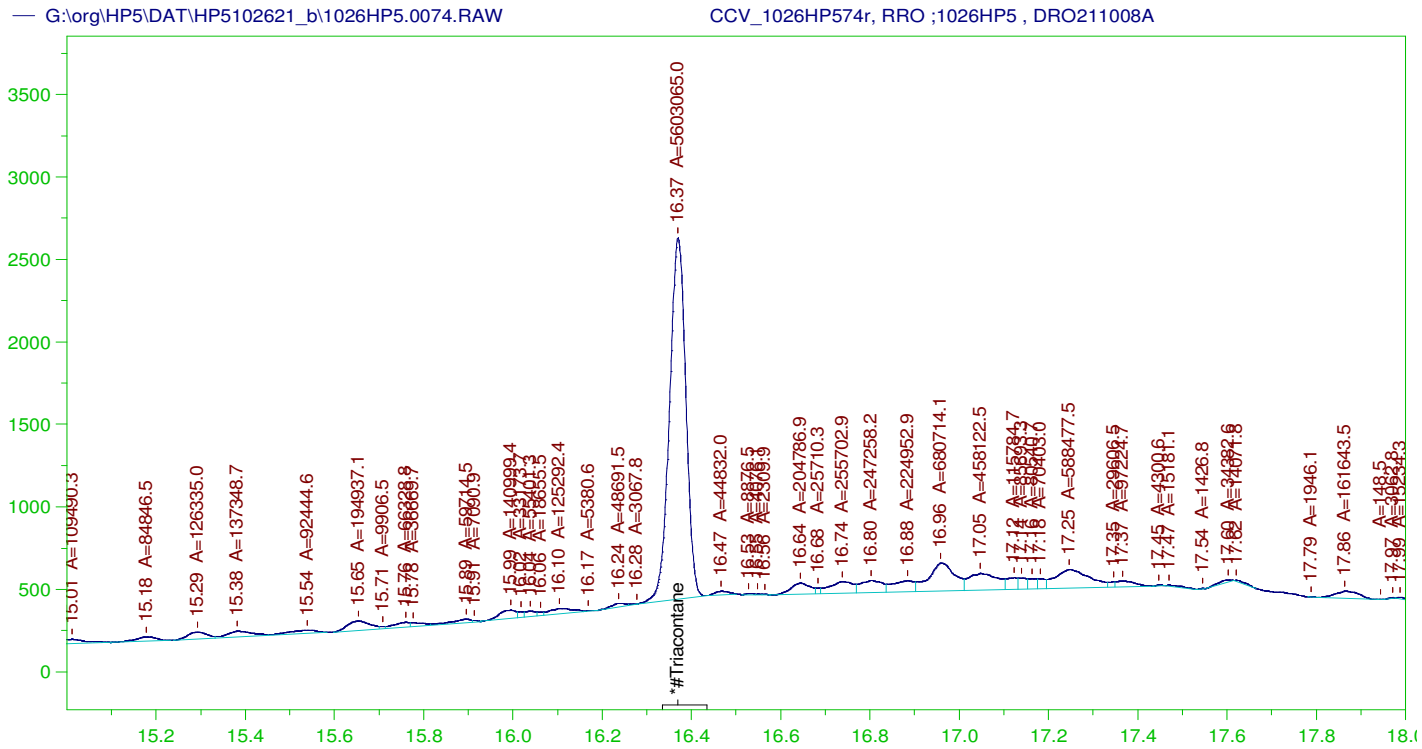
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0074.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | .042 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.37 | 200. | 330.644 | 165.32 | 75-125 |

AMN 11/01/2021

G:\org\HP5\dat\HP5102621_b\Review\074_CCV_1026HP574r_DC_ORO-AB-L%.xls




**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV_1026HP574r, RRO ;1026HP5 , DRO211008A
Raw File: G:\org\HP5\DAT\HP5102621_b\1026HP5.0074.RAW
Date & Time Acquired: 10/28/2021 12:16:34 PM
Method File: G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 12.67 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---|---|---|---|---|---|
| *#Triacontane | 16.37 | 500. | 193.676 | 38.74 | - |

RRO Area:6234779 RRO AMOUNT: 218.4391

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5102621_b\1026HP5.0074.RAW

| COMPOUND | ACTUAL(NG) | MEASURED(NG) | %RECOVERY | LIMITS |
|---|---|---|---|---|
| *30-40 Motor Oil | 5000. | .042 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---|---|---|---|---|---|
| *#Triacontane | 16.37 | 200. | 193.676 | 96.84 | 75-125 |

Write Sequence | Insert Entries(Have the first cell for entries selecte

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5102621_b\1026HP5.01r | DCM-Baseline Check-V01 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.03r | DCM-Baseline Check-V03 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.04r | Marker_1026HP504r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.05r | CCV_1026HP505r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.5 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.06r | CCV_1026HP506r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and X-axis scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.07r | DCM-Baseline Check-V07 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.08r | LCS-160655 ;1026HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and x-axix scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.09r | MB-160655 ;1026HP5 , | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.10r | B21101904-001B ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24T-102610-HU-L%.met<br>G:\Org\HP5\Methods\D3_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.11r | DCM-Baseline Check-V11 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.12r | DCM-Baseline Check-V12 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.13r | B21101905-001B ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.15r | DCM-Baseline Check-V15 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.16r | B21101906-001B ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1035 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.17r | DCM-Baseline Check-V17 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.18r | DCM-Baseline Check-V18 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.19r | B21101908-001B ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1030 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.20r | Marker_1026HP520r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.21r | CCV_1026HP521r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.5 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.22r | CCV_1026HP522r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and X-axis scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.23r | DCM-Baseline Check-V23 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5102621_b\1026HP5.24r | B21101924-001B ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.25r | DCM-Baseline Check-V25 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.26r | DCM-Baseline Check-V26 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.27r | B21101919-007A ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.28r | B21101919-006A ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1020 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.29r | DCM-Baseline Check-V29 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.30r | B21101919-005A ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.31r | B21101919-004A ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\D3_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.32r | DCM-Baseline Check-V32 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.33r | B21101919-003A ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\D3_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.34r | B21101919-002A ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\D3_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.35r | B21101919-001A ;1026HP5 , $HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\D3_OROS-AB-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.36r | Marker_1026HP536r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.37r | CCV_1026HP537r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.5 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.38r | CCV_1026HP538r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and X-axis scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.39r | DCM-Baseline Check-V39 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.40r | LCS-160655-RRO ;1026HP5 , | G:\Org\HP5\Methods\D3_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-102640-AB-L#.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.46 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.41r | DCM-Baseline Check-V41 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.42r | B21101919-002AMS-RRO ;1026HP5 , | G:\Org\HP5\Methods\D3_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.5 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.43r | DCM-Baseline Check-V43 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5102621_b\1026HP5.44r | B21101919-002AMSD-RRO ;1026HP5 , | G:\Org\HP5\Methods\D3_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.5 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.45r | DCM-Baseline Check-V45 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.46r | B21101919-001AMS ;1026HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 530 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and x-axix scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.47r | DCM-Baseline Check-V47 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.48r | B21101919-001AMSD ;1026HP5 , | G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.met | 530 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and x-axix scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.49r | Marker_1026HP549r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026.met | 1 | 1 | 1 | 1 | 0 | No integration. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.50r | CCV_1026HP550r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-AB-L#.MET | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.5 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.51r | CCV_1026HP551r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and X-axis scaling showing surrogate peak from 11.5-14. |

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Write Sequence | Insert Entries(Have the first cell for entries selecter

| Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5102621_b\1026HP5.49r | Marker_1026HP549r, DRO ;1026HP5 , DRO211708A | g:\org\HP5\Methods\\CSC211026b.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.50r | CCV_1026HP550r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_OROS-AB-L#.MET | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.5 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.51r | CCV_1026HP551r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and X-axis scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.52r | DCM-Baseline Check-V52 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.53r | LCS-160655 ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and x-axix scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.54r | MB-160655 ;1026HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.55r | B21101919-004A ;1026HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.56r | B21101919-003A ;1026HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.57r | B21101904-001B ;1026HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24-Tri-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1055 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH. Assigned Set Baseline All Valley on at 17.56 for C24-C40.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.58r | DCM-Baseline Check-V58 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.59r | B21101919-002A ;1026HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-102659-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1050 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH and peak width was adjusted. Assigned Set Baseline All Valley on at 17.56 for C24-C40.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.60r | B21101919-001A ;1026HP5 , $HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-102659-HU-L%.met<br>G:\Org\HP5\Methods\DR_OROS-ABb-L%.MET<br>G:\Org\HP5\Methods\DS_8015-C24T-HU-L#.xls | 1040 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 17.12 for DRO and TEH and peak width was adjusted. Assigned Set Baseline All Valley on at 17.56 for C24-C40.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.23 and 16.3 and slightly after the surrogate peaks at 12.48 and 16.66. X-axis scaling showing surrogate peak from 11-18. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.61r | B21101919-001AMS ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 530 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and x-axix scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.62r | B21101919-001AMSD ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_8015-102662-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 530 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width was adjusted.<br>Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and x-axix scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.63r | DCM-Baseline Check-V63 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| G:\org\HP5\DAT\HP5102621_b\1026HP5.64r | LCS-160655-RRO ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET | 1000 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.44 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.65r | Marker_1026HP565r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026b.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.66r | CCV_1026HP566r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_OROS-AB-L#.MET | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.5 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.67r | CCV_1026HP567r, DRO ;1026HP5 , DRO211019A | G:\Org\HP5\Methods\DC_8015-C24-HU-L%.met<br>G:\Org\HP5\Methods\DS_8015-area-HU-L#.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.27. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.24 and slightly after the surrogate peak at 12.41 and X-axis scaling showing surrogate peak from 11.5-14. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.68r | DCM-Baseline Check-V68 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.69r | B21101919-002AMS-RRO ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_ORO-102669-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width and scaling was adjusted. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.44 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.70r | DCM-Baseline Check-V70 | G:\Org\HP5\Methods\DR_8015-24-HU-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.72r | B21101919-002AMSD-RRO ;1026HP5 , SGT | G:\Org\HP5\Methods\D3_ORO-102669-AB-L%.MET<br>G:\Org\HP5\Methods\DS_ORO-102664-AB-L#.MET | 500 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Peak width and scaling was adjusted. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.44 and X-axis scaling showing surrogate peak from 15-18.0. |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.73r | Marker_1026HP573r, DRO ;1026HP5 , DRO210708A | g:\org\HP5\Methods\\CSC211026b.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| G:\org\HP5\DAT\HP5102621_b\1026HP5.74r | CCV_1026HP574r, RRO ;1026HP5 , DRO211008A | G:\Org\HP5\Methods\DC_ORO-AB-L%.MET<br>G:\Org\HP5\Methods\DS_OROS-AB-L#.MET | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.28 and slightly after the surrogate peak at 16.5 and X-axis scaling showing surrogate peak from 15-18.0. |

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