

Energy Laboratories Inc

ANALYTICAL RUN Summary

03-Nov-21

Run ID GCFID-HP5-B_211102A

Run Start Date: 11/2/2021
Analyst: Ann Nebel
Ical:
Column ID:
Comments: ICAL for 8015C_DRO211002IA

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO211012A	Diesel Fuel #2 50,000 ug/mL in DCM					CAL-DIESE	4/30/2023
DRO211012B	#2 Diesel in Acetone 150,000 ug/mL					SECOND S	11/5/2023
DRO211025A	ALI CCV Mix-200ug/mL					MARKER	5/31/2022
DRO211101A	OTP-4000 ug/mL DCM					CAL-SURR	9/30/2024

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14822192	CCV_1102HP50	HC-8015-DRO-	CCV		11/2/2021 8:31:3	1	R369667		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		3.665751		15	0	0	0.0749	0.3	50	24%	80	120	0%	S
o-Terphenyl	S	mg/L		0.2015393		0.2	0	0	0.000429	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					
14822193	CCV_1102HP50	HC-8015-DRO-	CAL1		11/2/2021 9:57:0	1	R369667		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.00195342		0.002	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					
14822194	CCV_1102HP50	HC-8015-DRO-	CAL2		11/2/2021 10:39:	1	R369667		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.04992196		0.05	0	0	0.000429	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					
14822195	CCV_1102HP50	HC-8015-DRO-	CAL3		11/2/2021 11:22:	1	R369667		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.1939565		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					
14822196	CCV_1102HP50	HC-8015-DRO-	CAL4		11/2/2021 12:05:	1	R369667		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.5113316		0.5	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					
14822197	CCV_1102HP50	HC-8015-DRO-	CAL5		11/2/2021 12:49:	1	R369667		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		1.032406		1	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					
14822198	CCV_1102HP51	HC-8015-DRO-	CAL1		11/2/2021 1:32:0	1	R369667		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		0.1551854		0.15	0	0	0.0749	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					
14822199	CCV_1102HP51	HC-8015-DRO-	CAL2		11/2/2021 2:15:0	1	R369667		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		3.698073		3.75	0	0	0.0749	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					
14822200	CCV_1102HP51	HC-8015-DRO-	CAL3		11/2/2021 2:58:2	1	R369667		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		15.26249		15	0	0	0.0749	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					
14822201	CCV_1102HP51	HC-8015-DRO-	CAL4		11/2/2021 3:41:3	1	R369667		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		36.59341		37.5	0	0	0.0749	0.3	50	98%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14822202	CCV_1102HP51	HC-8015-DRO-	CAL5		11/2/2021 4:24:5	1	R369667		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		49.2977		50	0	0	0.0749	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					
14822203	CCV_1102HP51	HC-8015-DRO-	ICV		11/2/2021 5:51:3	1	R369667		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		14.98994		15	0	0	0.0749	0.3	50	100%	80	120	0%	

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
		CCV_1102HP508r, DRO ;1102HP5 , DRO211025A	G:\Org\HP5\Methods\DC_8015-IA-L%.met	1	1	1	1	0
		DCM-Baseline Check-V04	G:\Org\HP5\Methods\DR_8015-HP-LEXP.met	1	1	1	1	0
		CCV_1102HP505r, CAL1 ;1102HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0
		CCV_1102HP506r, CAL2 ;1102HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0
		CCV_1102HP507r, CAL3 ;1102HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0
		CCV_1102HP508r, CAL4 ;1102HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0
		CCV_1102HP509r, CAL5 ;1102HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO21101A + 750 DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0
		CCV_1102HP510r, CAL1 ;1102HP5 , 150 ug per mL Diesel (10 uL of Cal3 + 990 uL DCM(14408),	G:\Org\HP5\Methods\DC_8015-IA-L%.met	1	1	1	1	0
		CCV_1102HP511r, CAL2 ;1102HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(14408)	G:\Org\HP5\Methods\DC_8015-IA-L%.met	1	1	1	1	0
		CCV_1102HP512r, CAL3 ;1102HP5 , 15000 ug per mL Diesel (300 uL of DRO211012A + 700 uL DCM(14408)	G:\Org\HP5\Methods\DC_8015-IA-L%.met	1	1	1	1	0
		CCV_1102HP513r, CAL4 ;1102HP5 , 37500ug per mL Diesel (750 uL of DRO211012A + 250 uL DCM(14408)	G:\Org\HP5\Methods\DC_8015-IA-L%.met	1	1	1	1	0
		CCV_1102HP514r, CAL5 ;1102HP5 , 50000 ug per mL Diesel (200 uL of DRO211012A)	G:\Org\HP5\Methods\DC_8015-IA-L%.met	1	1	1	1	0
		DCM-Baseline Check-V15	G:\Org\HP5\Methods\DR_8015-HP-LEXP.met	1	1	1	1	0
		CCV_1102HP516r, Second Source ;1102HP5 , 15000 ug per mL (100uL of DRO211012B + 900uL DCM(14408)	G:\Org\HP5\Methods\DC_8015-IA-L%.met	1	1	1	1	0

File Name: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL

Version: 14

Creator: AMN 11/02/2021

Description: 8015C-DRO. New ICal Per 1102HP5 (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

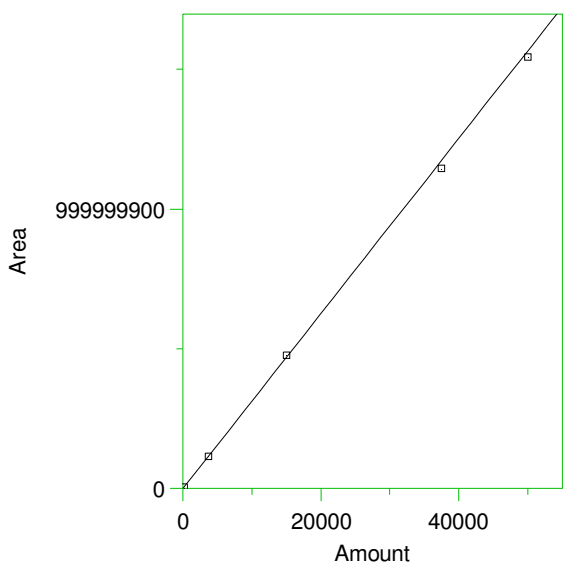
No default component

Method of calculating data point averages: Equal weight for all updates

No calibration update report

All levels are normal data points.

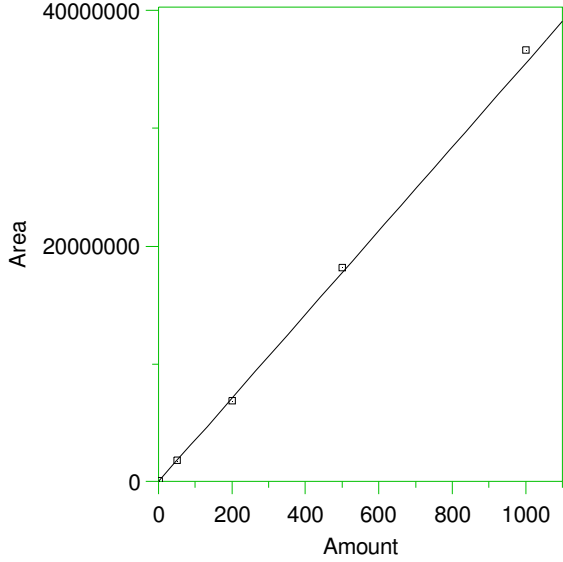
1 DRO Range Start



Expected retention time: 6.64 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
 $Y = 31353.19 X + 0$
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9992341
 Average error: 2.083%
 Average CF: 31353.19
 RSD: 2.487%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	150	4865557	32437.05	3.457	Manual	11/3/2021 6:44:55 AM
2	3750	1.159464E+08	30919.04	-1.385	Manual	11/3/2021 6:45:31 AM
3	15000	4.785279E+08	31901.86	1.750	Manual	11/3/2021 6:46:08 AM
4	37500	1.14732E+09	30595.2	-2.418	Manual	11/3/2021 6:45:45 AM
5	50000	1.54564E+09	30912.8	-1.405	Manual	11/3/2021 6:45:18 AM

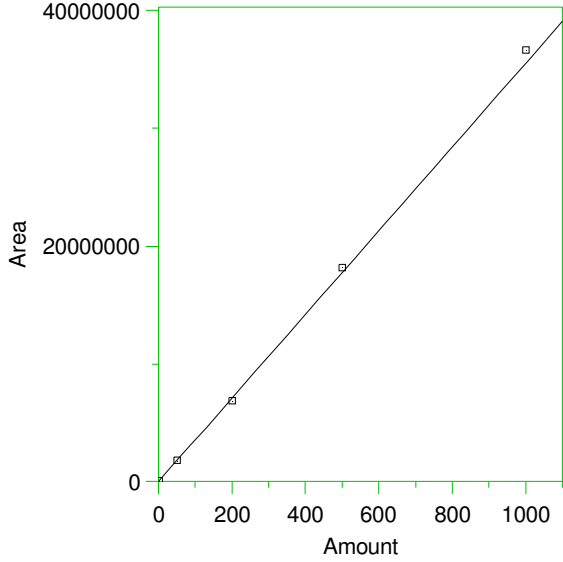
2 *o-Terphenyl



Expected retention time: 12.29 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 = 35509.21 X + 0
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9983284
 Average error: 2.203%
 Average CF: 35509.21
 RSD: 2.749%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	69364.34	34682.17	-2.329	G:\Org\HP5\DAT\HP5110221_b\1102HP5.0005.BND	11/2/2021 2:21:29 PM
2	50	1772689	35453.78	-0.156	G:\Org\HP5\DAT\HP5110221_b\1102HP5.0006.BND	11/2/2021 2:21:35 PM
3	200	6887244	34436.22	-3.022	G:\Org\HP5\DAT\HP5110221_b\1102HP5.0007.BND	11/2/2021 2:21:41 PM
4	500	1.815698E+07	36313.96	2.266	G:\Org\HP5\DAT\HP5110221_b\1102HP5.0008.BND	11/2/2021 2:21:47 PM
5	1000	3.665993E+07	36659.93	3.241	G:\Org\HP5\DAT\HP5110221_b\1102HP5.0009.BND	11/2/2021 2:21:52 PM

3 *1-Chlorooctadecane

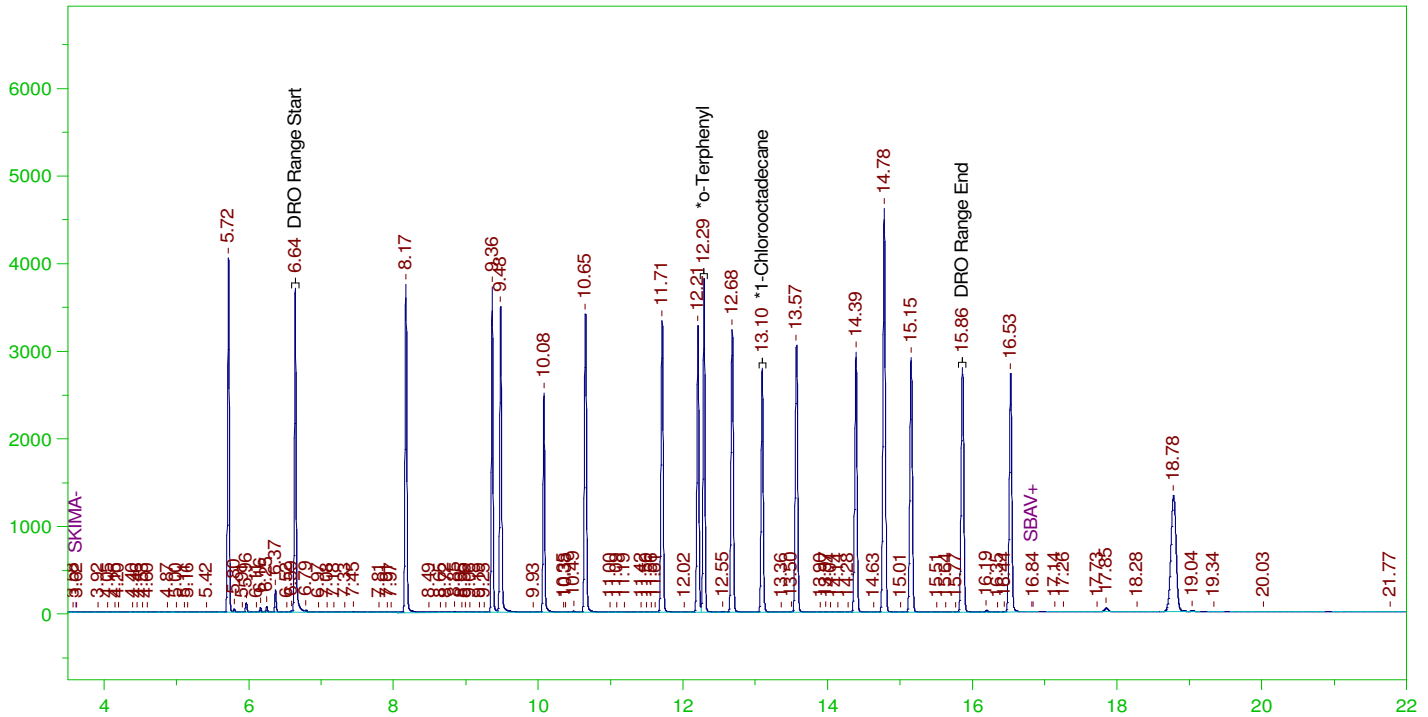


Expected retention time: 13.1 minutes
 Search window: 0.05 minutes
 No retention time reference component
 Group number: 0
 High alarm limit: 0
 Low alarm limit: 0
 Component constant: 0
 Single peak quantification by area
 Y = 35509.21 X + 0
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9983284
 Average error: 2.203%
 Average CF: 35509.21
 RSD: 2.749%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	69364.34	34682.17	-2.329	Manual	11/2/2021 2:21:57 PM
2	50	1772689	35453.78	-0.156	Manual	11/2/2021 2:21:58 PM
3	200	6887244	34436.22	-3.022	Manual	11/2/2021 2:22:00 PM
4	500	1.815698E+07	36313.96	2.266	Manual	11/2/2021 2:22:02 PM
5	1000	3.665993E+07	36659.93	3.241	Manual	11/2/2021 2:22:04 PM

G:\org\HP5\DAT\HP5110221_b\1102HP5.0003.RAW

CCV_1102HP508r, DRO ;1102HP5 , DRO211025A



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP508r, DRO ;1102HP5 , DRO211025A
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0003.RAW
 Date & Time Acquired: 11/2/2021 8:31:35 AM
 Method File: G:\Org\HP5\Methods\DC_8015-IA-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO21102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

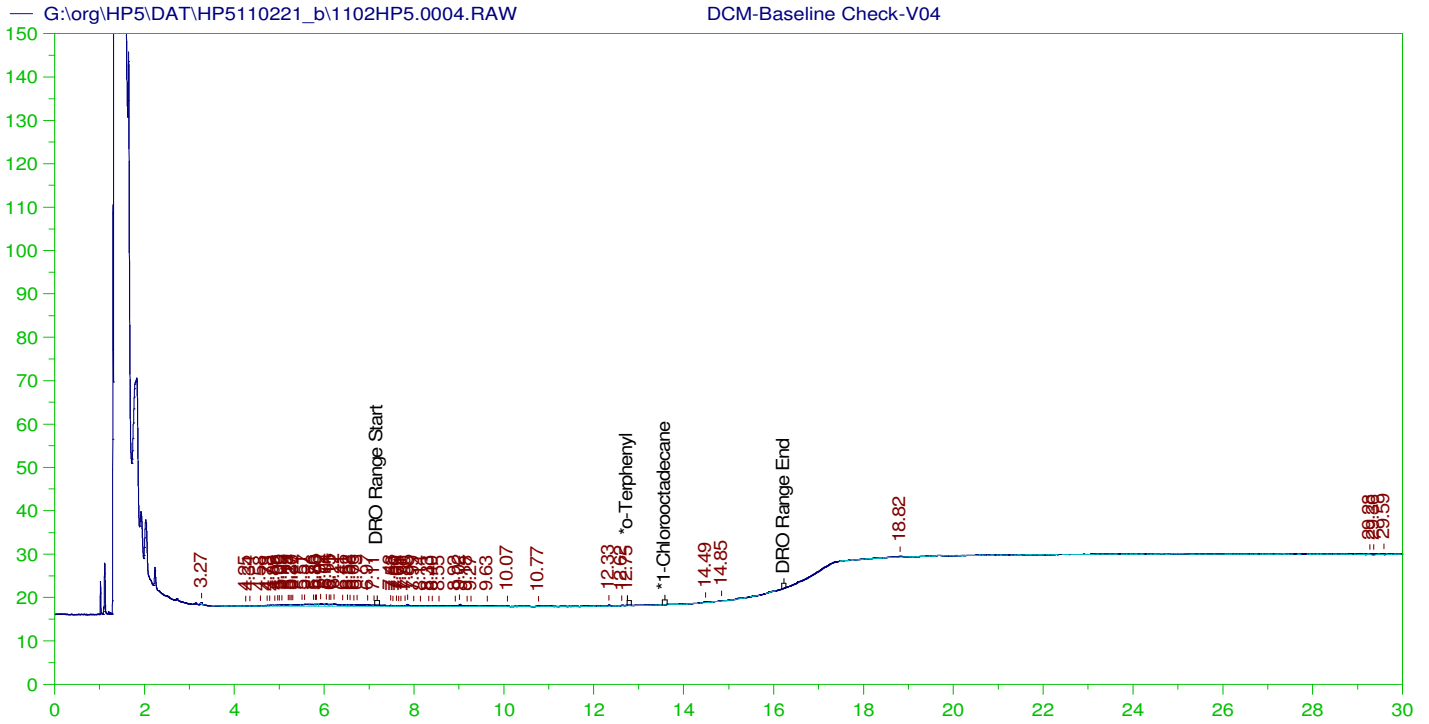
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.292	200.	201.539	100.77
*1-Chlorooctadecane	13.095	200.	163.573	81.79

DRO Area: 9.38791E+07 DRO Amount: 2994.244
 TEH Area: 1.14933E+08 TEH Amount: 3665.75

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0003.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	3665.75	24.44	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.292	200.	201.539	100.77	85-115
*1-Chlorooctadecane	13.095	200.	163.573	81.79	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V04
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0004.RAW
 Date & Time Acquired: 11/2/2021 9:14:27 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

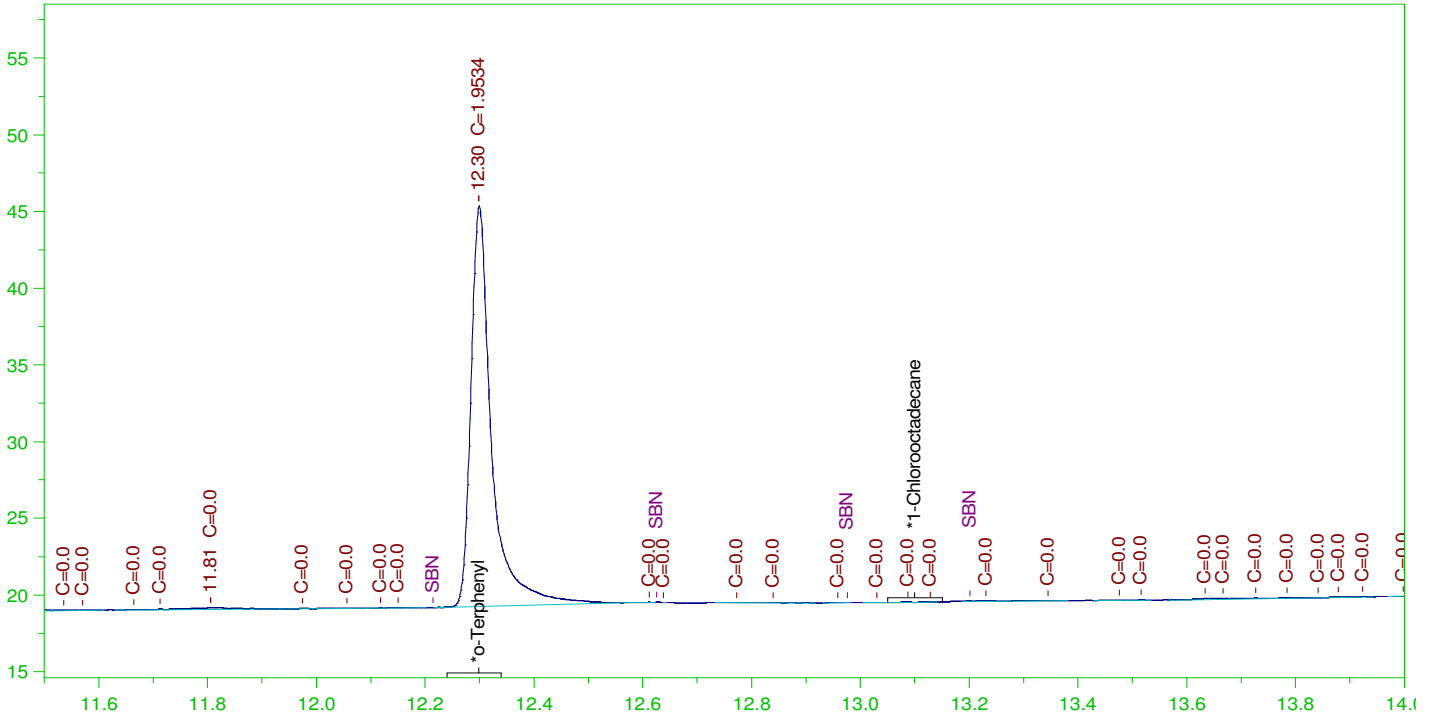
Mean RF for TEH: 29457.33
 Rt range for Diesel Range Organics: 7.125 to 16.28

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.746	200.	.026	.01
*1-Chlorooctadecane	29.929	200.	.	.

DRO Area:35138 DRO Amount: 1.192844
 TEH Area:110269.4 TEH Amount: 3.74336

G:\org\HP5\DAT\HP5110221_b\1102HP5.0005.RAW

CCV_1102HP505r, CAL1 ;1102HP5 , 2 ug per mL OTP



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP505r, CAL1 ;1102HP5 , 2 ug per mL OTP
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0005.RAW
 Date & Time Acquired: 11/2/2021 9:57:01 AM
 Method File: G:\Org\HP5\Methods\DS_8015-IA-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.299	200.	1.953	.98	-
*1-Chlorooctadecane	15.561	200.	.	.	-

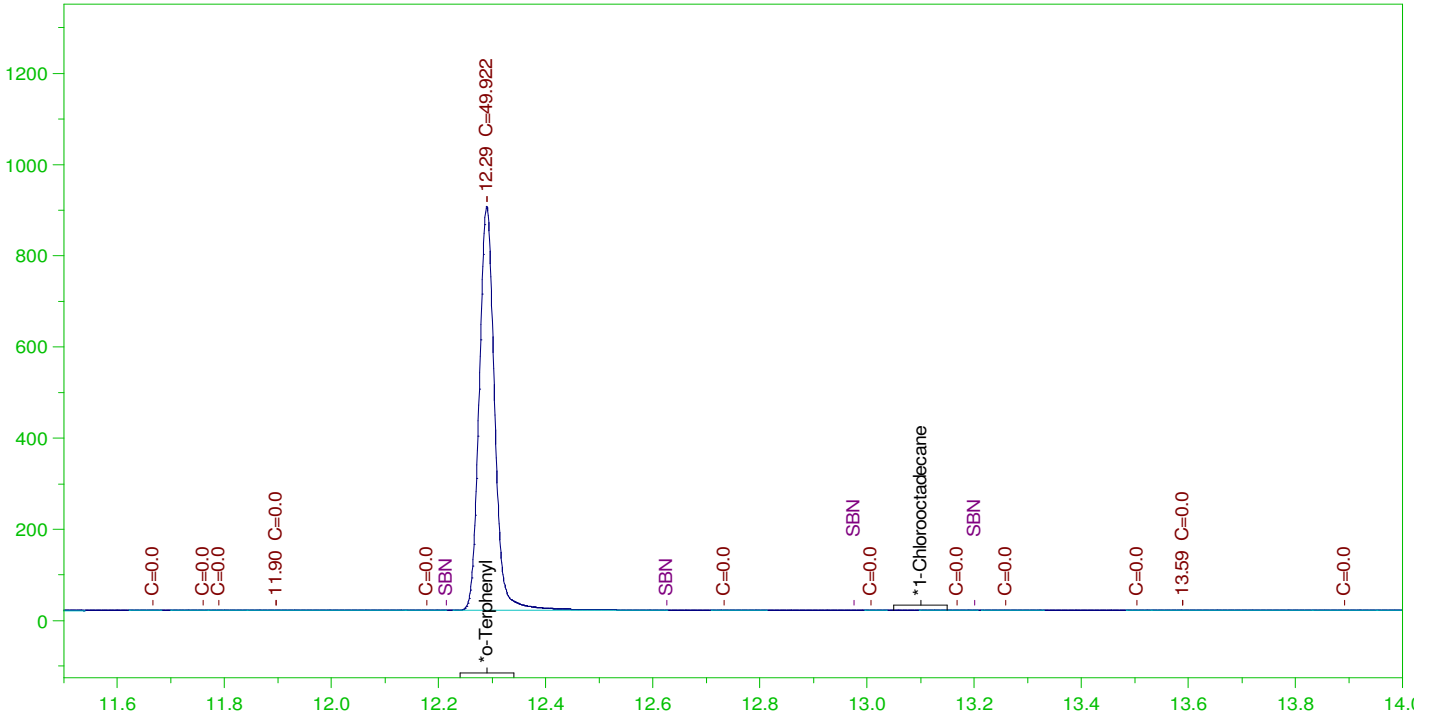
DRO Area:37026.36 DRO Amount: 1.180944
 TEH Area:88429.33 TEH Amount: 2.820425

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0005.RAW
 COMPOUND ACTUAL (NG) MEASURED (NG) %RECOVERY LIMITS
 TOTAL DRO 15000. . . 85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.299	200.	1.953	.98	85-115
*1-Chlorooctadecane	15.561	200.	.	.	85-115

G:\org\HP5\DAT\HP5110221_b\1102HP5.0006.RAW

CCV_1102HP506r, CAL2 ;1102HP5 , 50 ug per mL OTP



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP506r, CAL2 ;1102HP5 , 50 ug per mL OTP
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0006.RAW
 Date & Time Acquired: 11/2/2021 10:39:43 AM
 Method File: G:\Org\HP5\Methods\DS_8015-IA-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.29	200.	49.922	24.96	-
*1-Chlorooctadecane	15.697	200.	.	.	-

DRO Area:141449.5 DRO Amount: 4.511485
 TEH Area:310030.7 TEH Amount: 9.88833

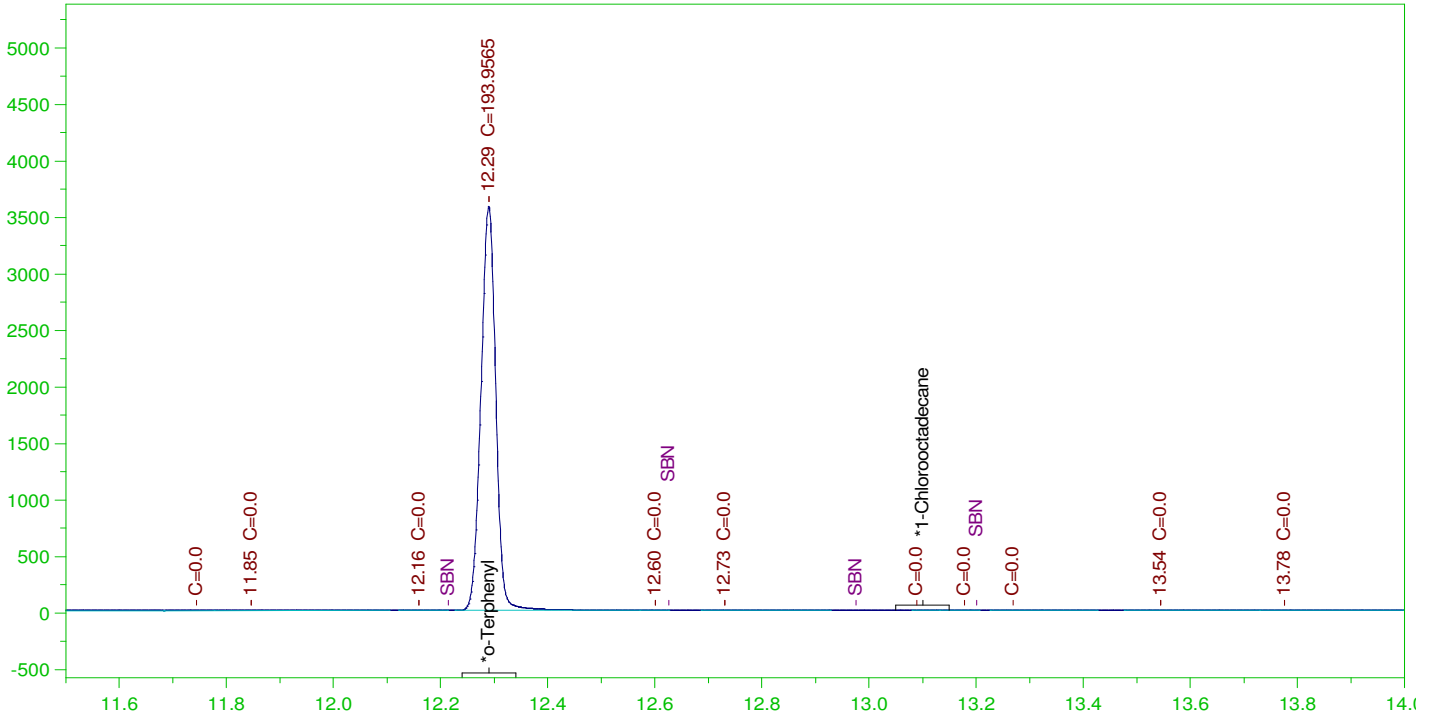
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0006.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.29	200.	49.922	24.96	85-115
*1-Chlorooctadecane	15.697	200.	.	.	85-115

G:\org\HP5\DAT\HP5110221_b\1102HP5.0007.RAW

CCV_1102HP507r, CAL3 ;1102HP5 , 200 ug per mL OTP



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP507r, CAL3 ;1102HP5 , 200 ug per mL OTP
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0007.RAW
 Date & Time Acquired: 11/2/2021 11:22:37 AM
 Method File: G:\Org\HP5\Methods\DS_8015-IA-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

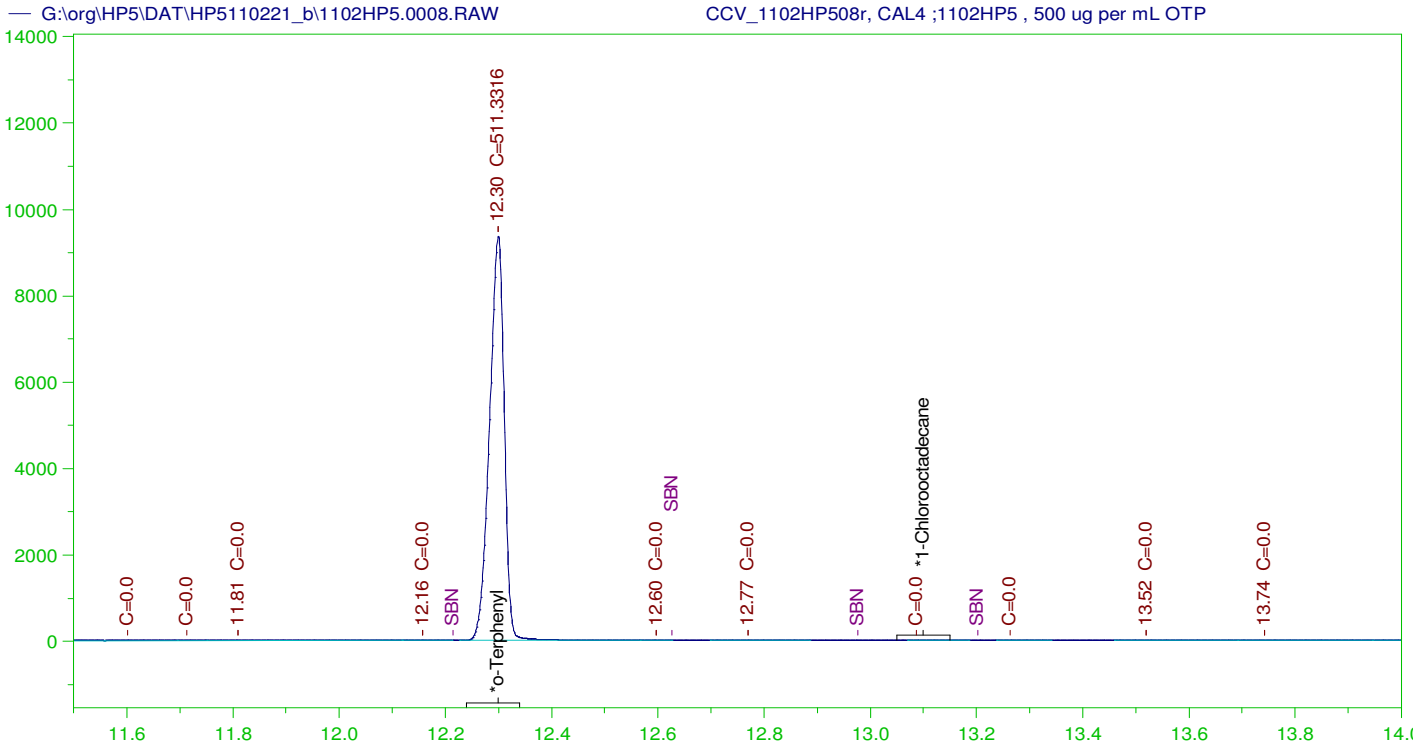
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.29	200.	193.957	96.98	-
*1-Chlorooctadecane	15.779	200.	.	.	-

DRO Area:338082.7 DRO Amount: 10.78304
 TEH Area:638415.8 TEH Amount: 20.36207

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0007.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	20.36	.14	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.29	200.	193.957	96.98	85-115
*1-Chlorooctadecane	15.779	200.	.	.	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP508r, CAL4 ;1102HP5 , 500 ug per mL OTP
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0008.RAW
 Date & Time Acquired: 11/2/2021 12:05:44 PM
 Method File: G:\Org\HP5\Methods\DS_8015-IA-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.3	200.	511.332	255.67	-
*1-Chlorooctadecane	15.798	200.	.	.	-

DRO Area:456992 DRO Amount: 14.57561
 TEH Area:825752.1 TEH Amount: 26.3371

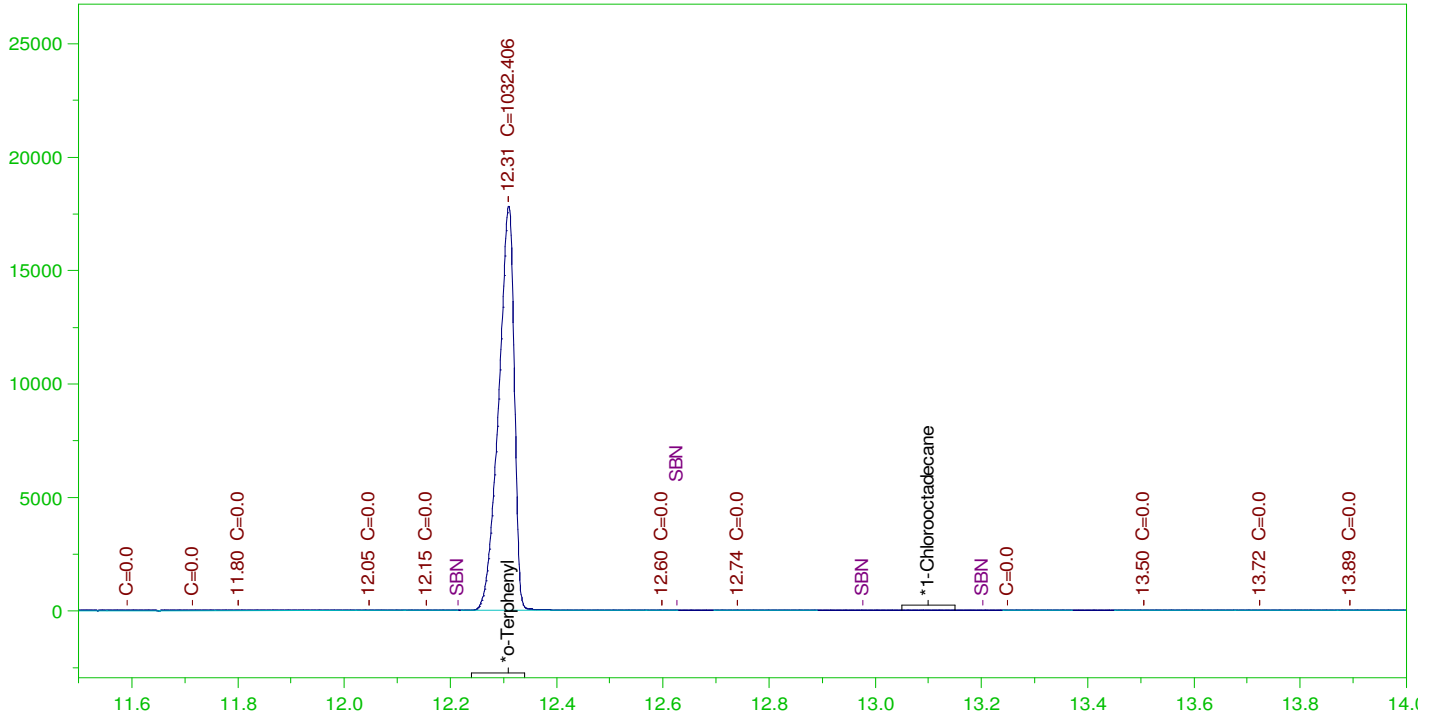
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0008.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	26.34	.18	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.3	200.	511.332	255.67	85-115
*1-Chlorooctadecane	15.798	200.	.	.	85-115

G:\org\HP5\DAT\HP5110221_b\1102HP5.0009.RAW

CCV_1102HP509r, CAL5 ;1102HP5 , 1000 ug per mL OTP



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP509r, CAL5 ;1102HP5 , 1000 ug per mL OTP
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0009.RAW
 Date & Time Acquired: 11/2/2021 12:49:02 PM
 Method File: G:\Org\HP5\Methods\DS_8015-IA-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.31	200.	1032.406	516.2	-
*1-Chlorooctadecane	15.803	200.	.	.	-

DRO Area:461032.4 DRO Amount: 14.70448
 TEH Area:724020.4 TEH Amount: 23.0924

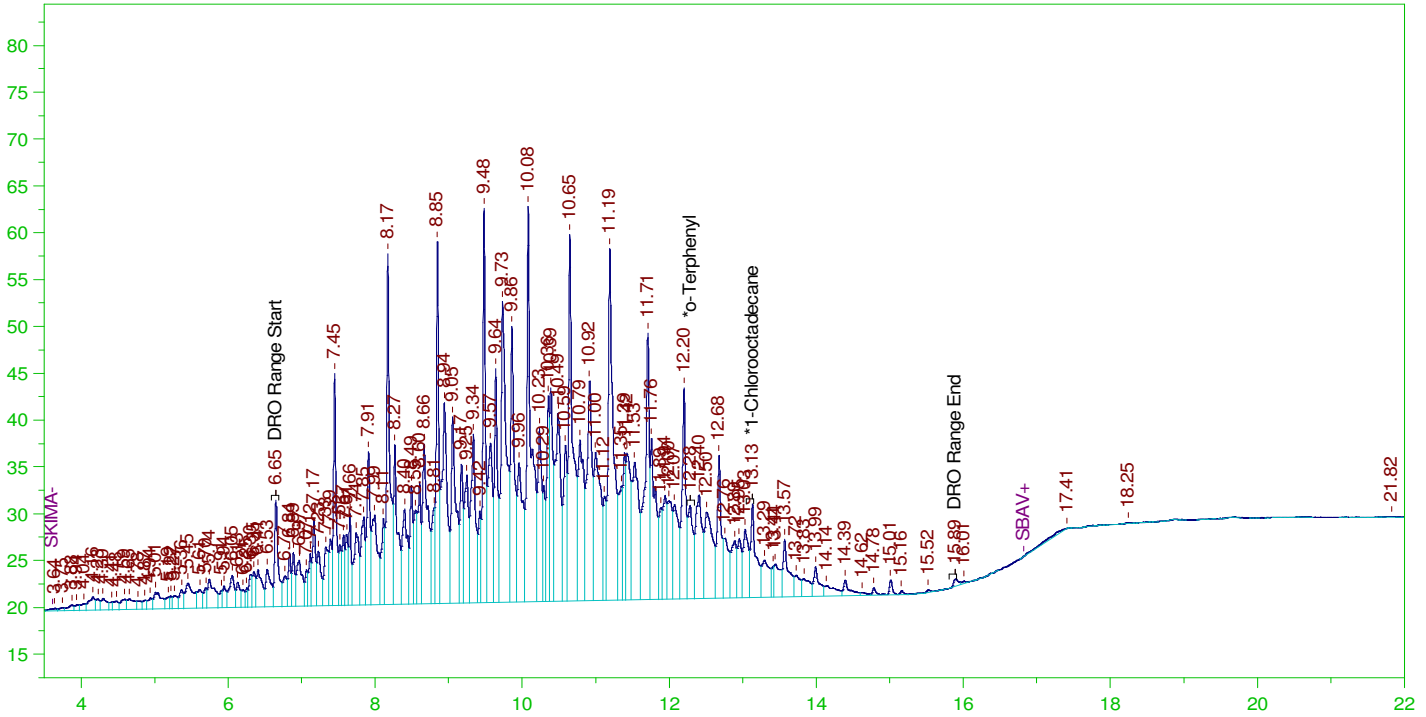
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0009.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	23.09	.15	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.31	200.	1032.406	516.2	85-115
*1-Chlorooctadecane	15.803	200.	.	.	85-115

G:\org\HP5\DAT\HP5110221_b\1102HP5.0010.RAW

CCV_1102HP510r, CAL1 ;1102HP5 , 150 ug per mL Diesel



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP510r, CAL1 ;1102HP5 , 150 ug per mL Diesel
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0010.RAW
 Date & Time Acquired: 11/2/2021 1:32:06 PM
 Method File: G:\Org\HP5\Methods\DC_8015-IA-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.285	200.	1.416	.71	-
*1-Chlorooctadecane	13.13	200.	1.44	.72	-

DRO Area:4571415 DRO Amount: 145.8038
 TEH Area:4865557 TEH Amount: 155.1854

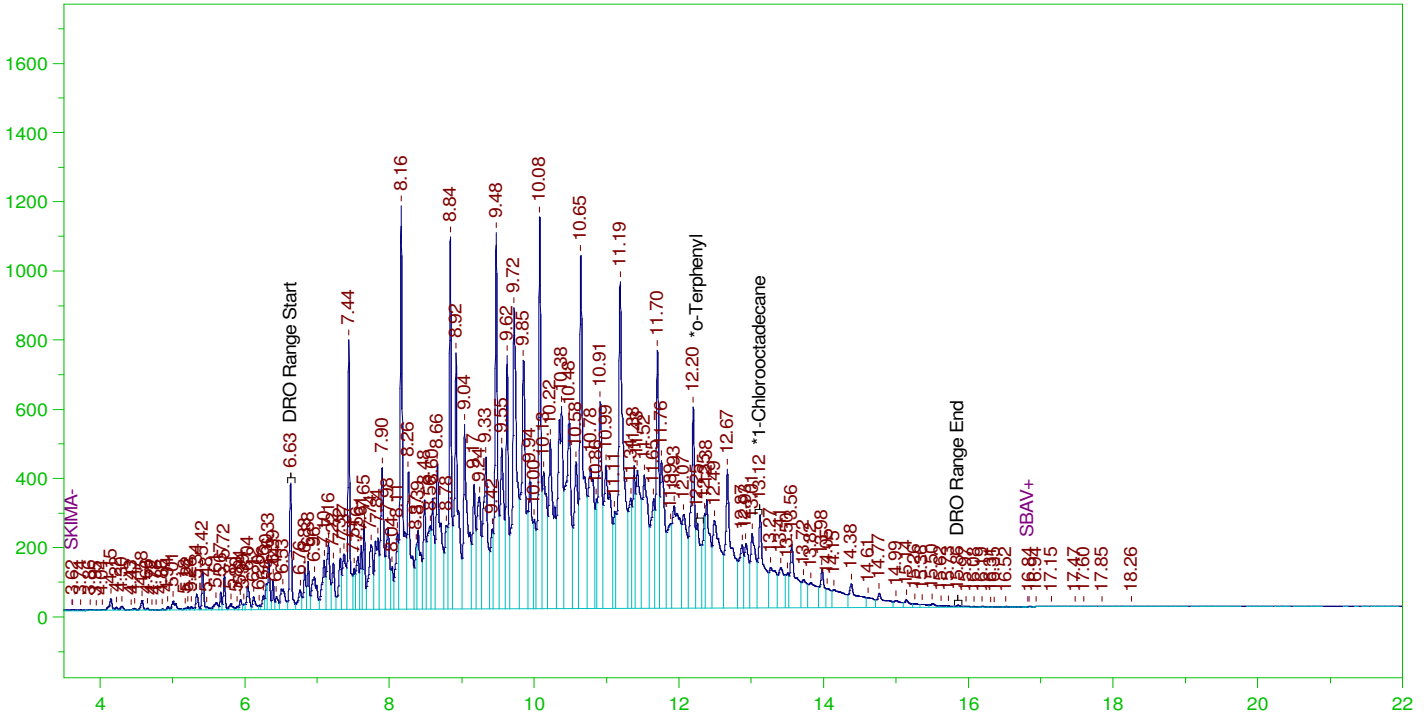
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0010.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	155.19	1.03	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.285	200.	1.416	.71	85-115
*1-Chlorooctadecane	13.13	200.	1.44	.72	85-115

G:\org\HP5\DAT\HP5110221_b\1102HP5.0011.RAW

CCV_1102HP511r, CAL2 ;1102HP5 , 3750 ug per mL Diesel



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP511r, CAL2 ;1102HP5 , 3750 ug per mL Diesel
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0011.RAW
 Date & Time Acquired: 11/2/2021 2:15:08 PM
 Method File: G:\Org\HP5\Methods\DC_8015-IA-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.252	200.	28.988	14.49	-
*1-Chlorooctadecane	13.122	200.	39.19	19.59	-

DRO Area:1.131291E+08 DRO Amount: 3608.216
 TEH Area:1.159464E+08 TEH Amount: 3698.073

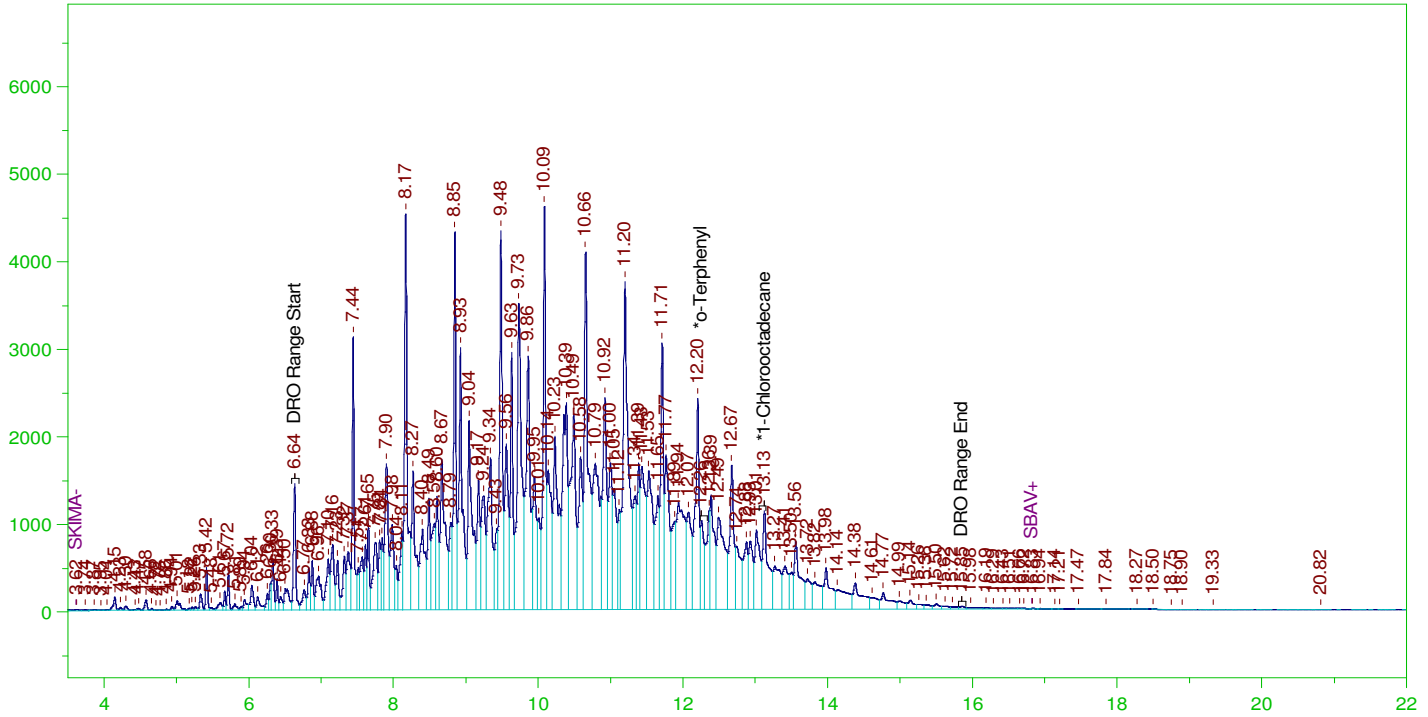
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0011.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	3698.07	24.65	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.252	200.	28.988	14.49	85-115
*1-Chlorooctadecane	13.122	200.	39.19	19.59	85-115

G:\org\HP5\DAT\HP5110221_b\1102HP5.0012.RAW

CCV_1102HP512r, CAL3 ;1102HP5 , 15000 ug per mL Diesel



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP512r, CAL3 ;1102HP5 , 15000 ug per mL Diesel
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0012.RAW
 Date & Time Acquired: 11/2/2021 2:58:26 PM
 Method File: G:\Org\HP5\Methods\DC_8015-IA-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.257	200.	92.35	46.18	-
*1-Chlorooctadecane	13.125	200.	158.994	79.5	-

DRO Area: 4.667999E+08 DRO Amount: 14888.43
 TEH Area: 4.785279E+08 TEH Amount: 15262.49

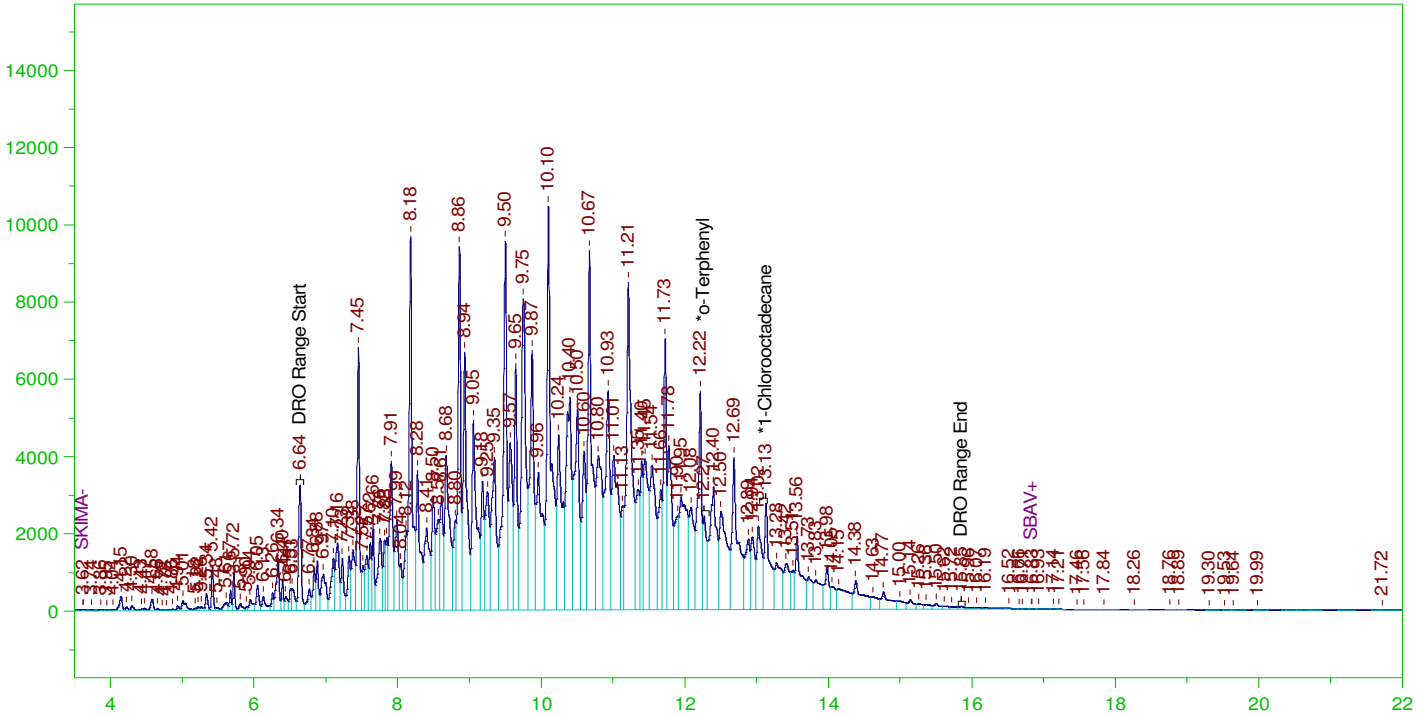
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0012.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15262.49	101.75	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.257	200.	92.35	46.18	85-115
*1-Chlorooctadecane	13.125	200.	158.994	79.5	85-115

G:\org\HP5\DAT\HP5110221_b\1102HP5.0013.RAW

CCV_1102HP513r, CAL4 ;1102HP5 , 37500ug per mL Diesel



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP513r, CAL4 ;1102HP5 , 37500ug per mL Diesel
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0013.RAW
 Date & Time Acquired: 11/2/2021 3:41:37 PM
 Method File: G:\Org\HP5\Methods\DC_8015-IA-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.268	200.	238.956	119.48
*1-Chlorooctadecane	13.133	200.	386.008	193.

DRO Area:1.118993E+09 DRO Amount: 35689.91
 TEH Area:1.14732E+09 TEH Amount: 36593.41

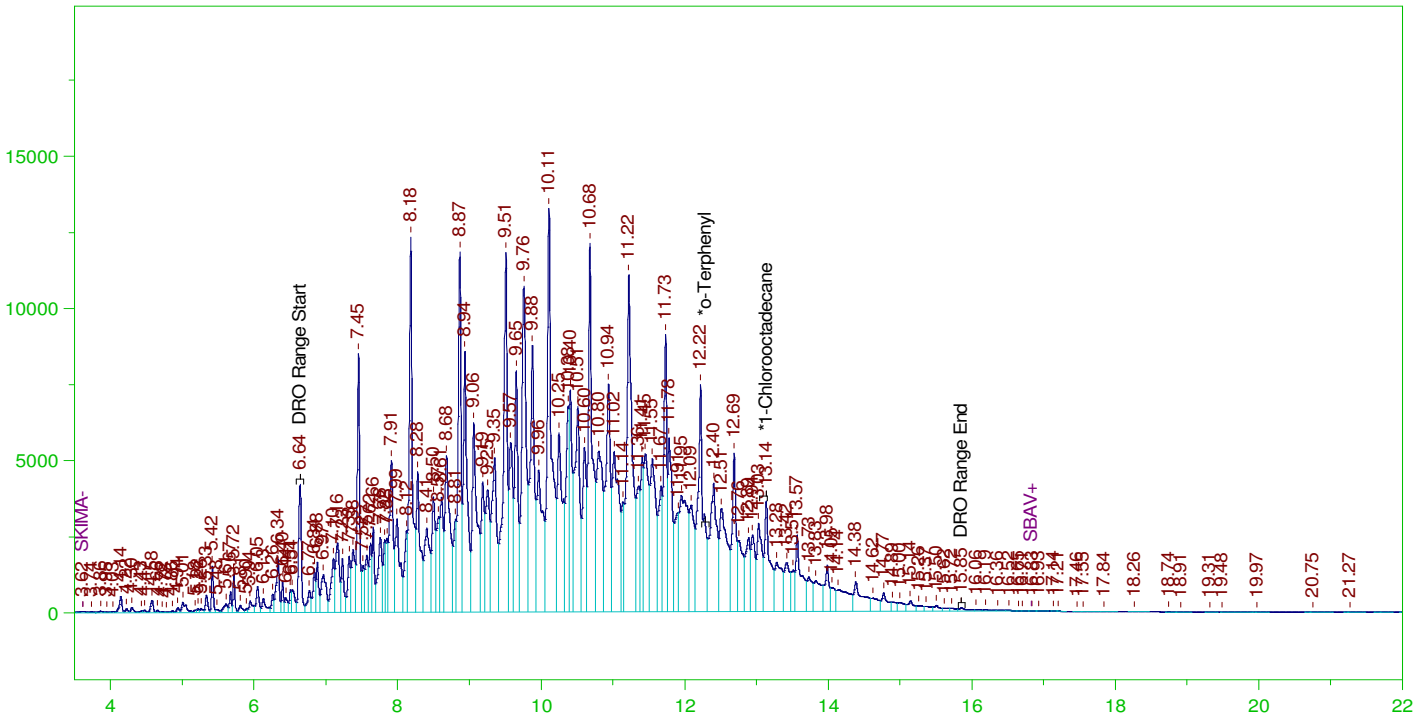
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0013.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	36593.41	243.96	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.268	200.	238.956	119.48	85-115
*1-Chlorooctadecane	13.133	200.	386.008	193.	85-115

G:\org\HP5\DAT\HP5110221_b\1102HP5.0014.RAW

CCV_1102HP514r, CAL5 ;1102HP5 , 50000 ug per mL Diesel



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP514r, CAL5 ;1102HP5 , 50000 ug per mL Diesel
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0014.RAW
 Date & Time Acquired: 11/2/2021 4:24:53 PM
 Method File: G:\Org\HP5\Methods\DC_8015-IA-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

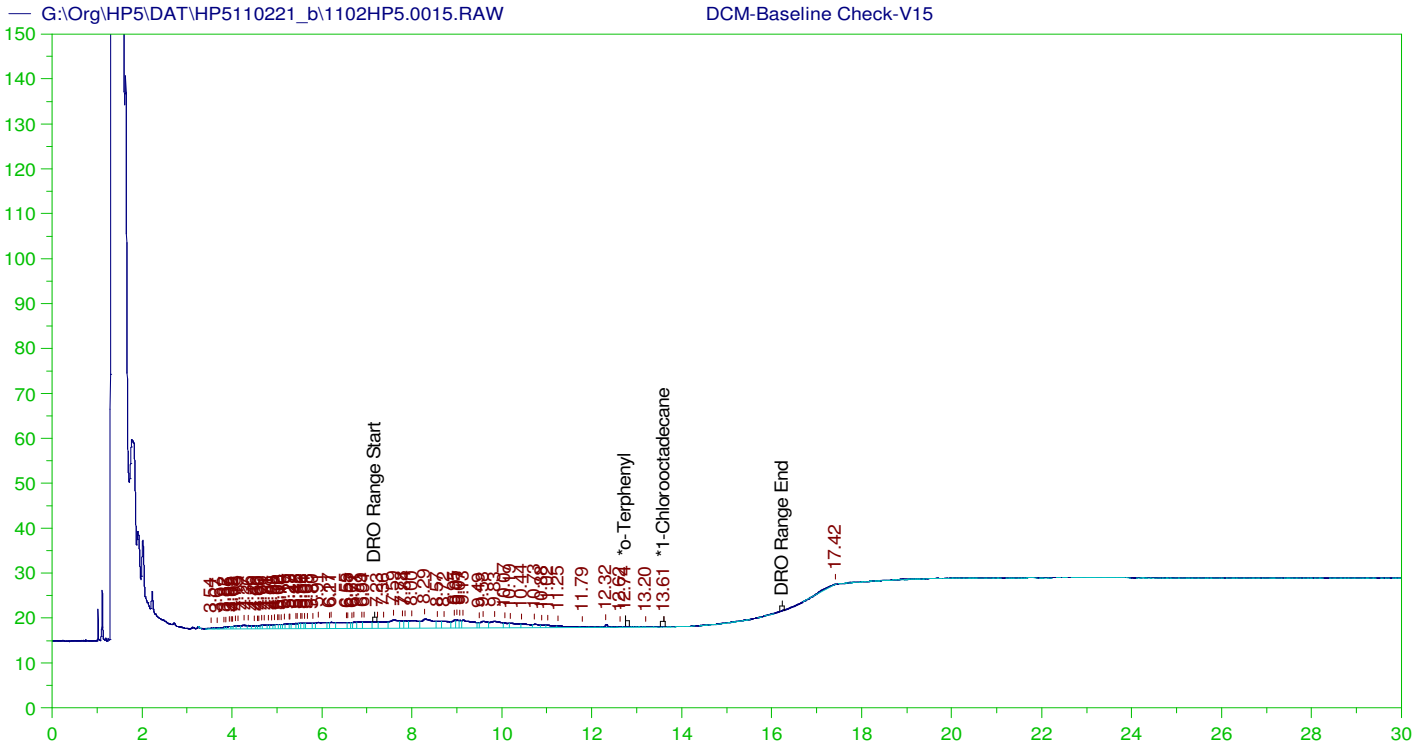
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.921	200.	.	-
*1-Chlorooctadecane	13.135	200.	512.63	256.31 -

DRO Area: 1.507978E+09 DRO Amount: 48096.49
 TEH Area: 1.54564E+09 TEH Amount: 49297.7

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0014.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	49297.7	328.65	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	29.921	200.	.	.	85-115
*1-Chlorooctadecane	13.135	200.	512.63	256.31	85-115



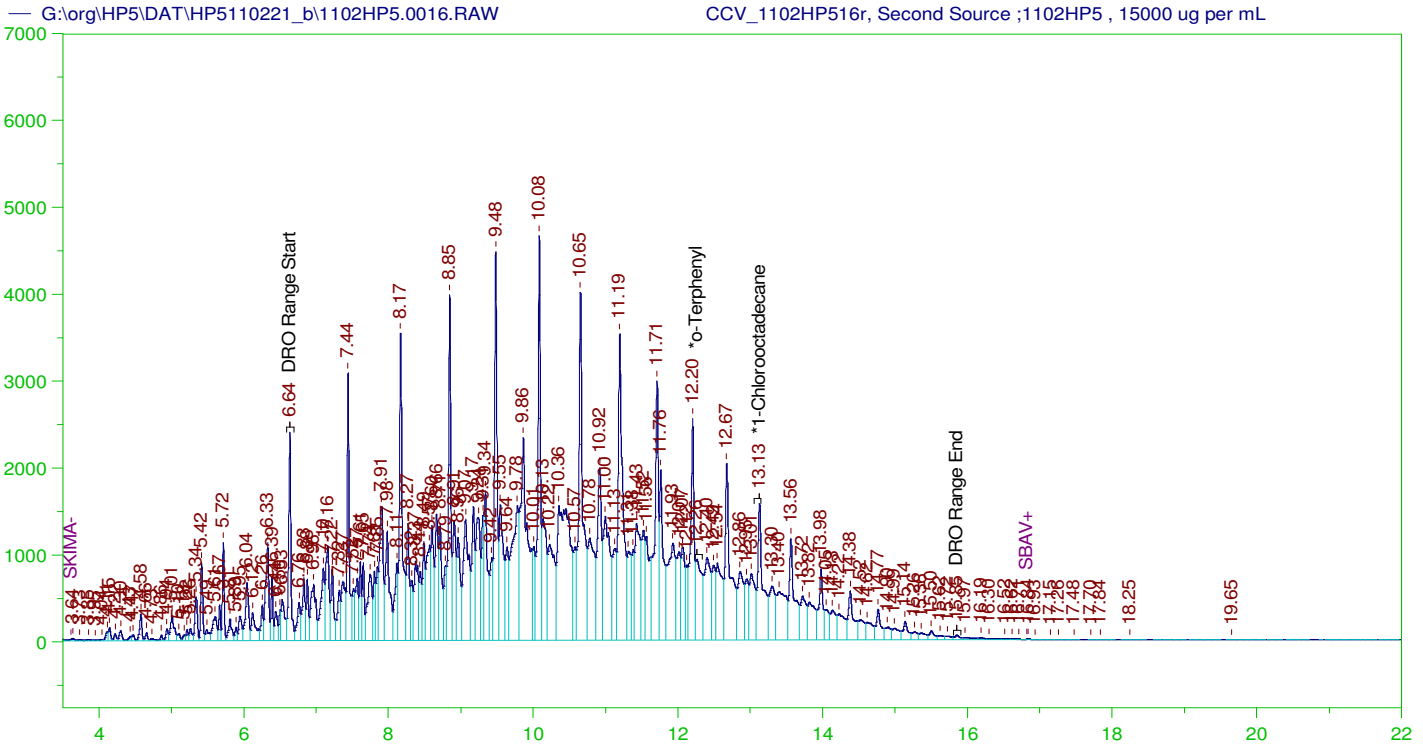
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V15
 Raw File: G:\Org\HP5\DAT\HP5110221_b\1102HP5.0015.RAW
 Date & Time Acquired: 11/2/2021 5:08:11 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	12.744	200.	.041	.02	-
*1-Chlorooctadecane	13.606	200.	.017	.01	-

DRO Area:305831.5 DRO Amount: 10.38219
 TEH Area:517467.1 TEH Amount: 17.56667



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1102HP516r, Second Source ;1102HP5 , 15000 ug per mL
 Raw File: G:\org\HP5\DAT\HP5110221_b\1102HP5.0016.RAW
 Date & Time Acquired: 11/2/2021 5:51:31 PM
 Method File: G:\Org\HP5\Methods\DC_8015-IA-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.261	200.	146.398	73.2
*1-Chlorooctadecane	13.127	200.	209.876	104.94

DRO Area: 4.432555E+08 DRO Amount: 14137.49
 TEH Area: 4.699825E+08 TEH Amount: 14989.94

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221_b\1102HP5.0016.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14989.94	99.93	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.261	200.	146.398	73.2	85-115
*1-Chlorooctadecane	13.127	200.	209.876	104.94	85-115

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manul Integrations
		CCV_1102HP508r, DRO ;1102HP5 ,DRO211025A	G:\Org\HP5\Methods\DC_8015-IA-L%.met	1	1	1	1	0	No integrations
		DCM-Baseline Check-V04	G:\Org\HP5\Methods\DR_8015-HP-LEXP.met	1	1	1	1	0	No integrations
		CCV_1102HP505r, CAL1 ;1102HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 and slightly after the surrogate peak at 12.63 and scaling showing surrogate peak from 11.5-14.
		CCV_1102HP506r, CAL2 ;1102HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 and slightly after the surrogate peak at 12.63 and scaling showing surrogate peak from 11.5-14.
		CCV_1102HP507r, CAL3 ;1102HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 and slightly after the surrogate peak at 12.63 and scaling showing surrogate peak from 11.5-14.
		CCV_1102HP508r, CAL4 ;1102HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 and slightly after the surrogate peak at 12.63 and scaling showing surrogate peak from 11.5-14.
		CCV_1102HP509r, CAL5 ;1102HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO21101A + 750 DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 and slightly after the surrogate peak at 12.63 and scaling showing surrogate peak from 11.5-14.
		CCV_1102HP510r, CAL1 ;1102HP5 , 150 ug per mL Diesel (10 uL of Cal3 + 990 uL DCM(14408),	G:\Org\HP5\Methods\DC_8015-IA-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 baseline. Assigned Set Baseline All Valley on at 16.83
		CCV_1102HP511r, CAL2 ;1102HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(14408)	G:\Org\HP5\Methods\DC_8015-IA-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 baseline. Assigned Set Baseline All Valley on at 17.5
		CCV_1102HP512r, CAL3 ;1102HP5 , 15000 ug per mL Diesel (300 uL of DRO211012A + 700 uL DCM(14408)	G:\Org\HP5\Methods\DC_8015-IA-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 baseline. Assigned Set Baseline All Valley on at 17.5
		CCV_1102HP513r, CAL4 ;1102HP5 , 37500ug per mL Diesel (750 uL of DRO211012A + 250 uL DCM(14408)	G:\Org\HP5\Methods\DC_8015-IA-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 baseline. Assigned Set Baseline All Valley on at 17.5
		CCV_1102HP514r, CAL5 ;1102HP5 , 50000 ug per mL Diesel (200 uL of DRO211012A)	G:\Org\HP5\Methods\DC_8015-IA-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 baseline. Assigned Set Baseline All Valley on at 17.5
		DCM-Baseline Check-V15	G:\Org\HP5\Methods\DR_8015-HP-LEXP.met	1	1	1	1	0	No integrations
		CCV_1102HP516r, Second Source ;1102HP5 , 15000 ug per mL (100uL of DRO211012B + 900uL DCM(14408)	G:\Org\HP5\Methods\DC_8015-IA-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 baseline. Assigned Set Baseline All Valley on at 17.5

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.11.09 12:32:44 -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 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 Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
		Marker_0218HP501r, DRO C40 ;0218HP5 , DRO210204A	G:\Org\HP5\Methods\CSC210212.met	1	1	1	1	0
		DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
		CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mL Oil (10 uL of Cal4 + 990 uL DCM(13510)	G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET	1	1	1	1	0
		DCM-Baseline Check-V04	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
		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
		DCM-Baseline Check-V06	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
		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
		DCM-Baseline Check-V08	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
		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
		DCM-Baseline Check-V10	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
		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
		DCM-Baseline Check-V12	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
		DCM-Baseline Check-V13	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
		DCM-Baseline Check-V14	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
		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

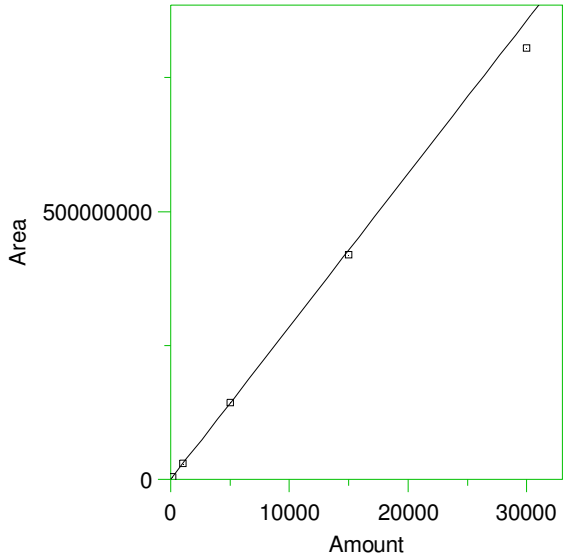
No default component

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

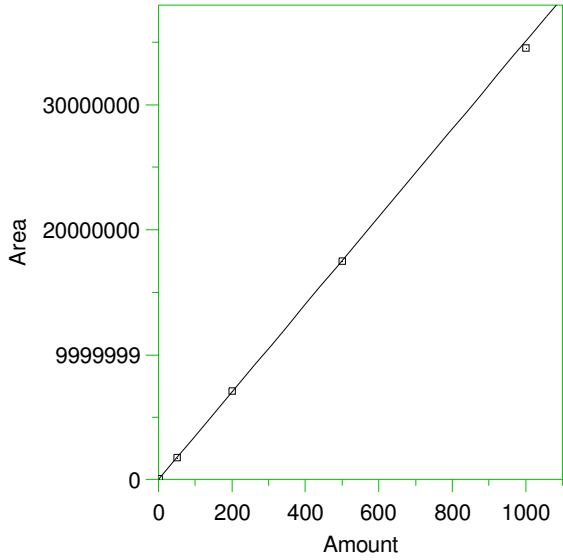
Single peak quantification by area

$Y = 28542.41 X + 0$

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

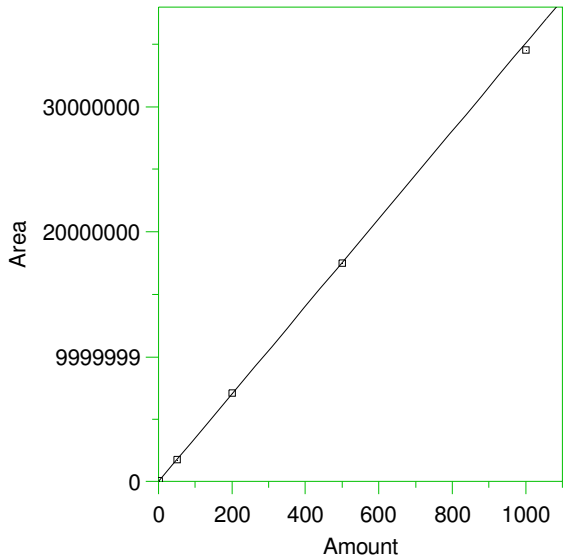
2 *o-Terphenyl



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%

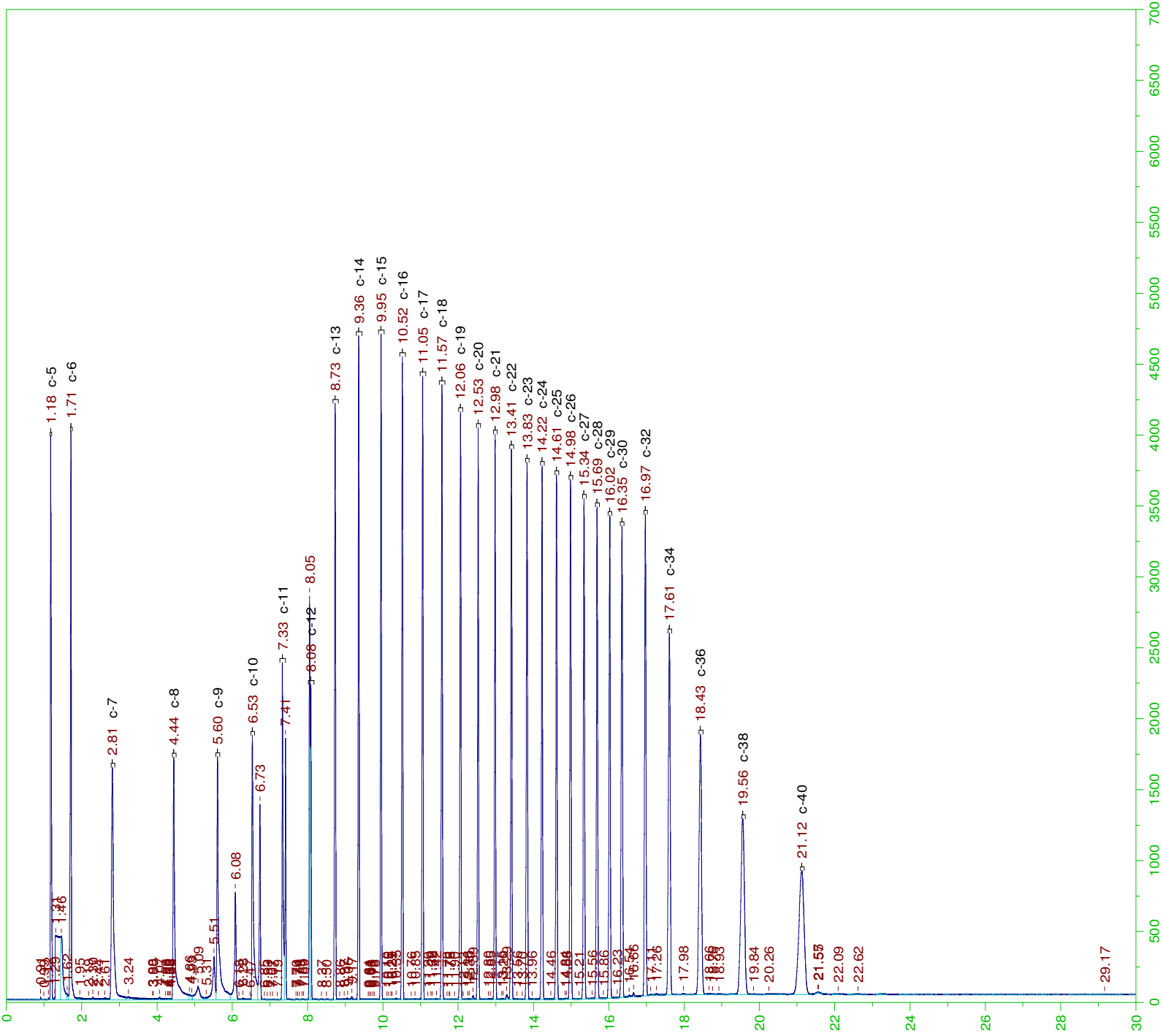
Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	70648.41	35324.2	0.721	G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND	1/11/2021 9:44:43 AM
2	50	1746406	34928.12	-0.408	G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND	1/11/2021 9:44:50 AM
3	200	7110604	35553.02	1.374	G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND	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

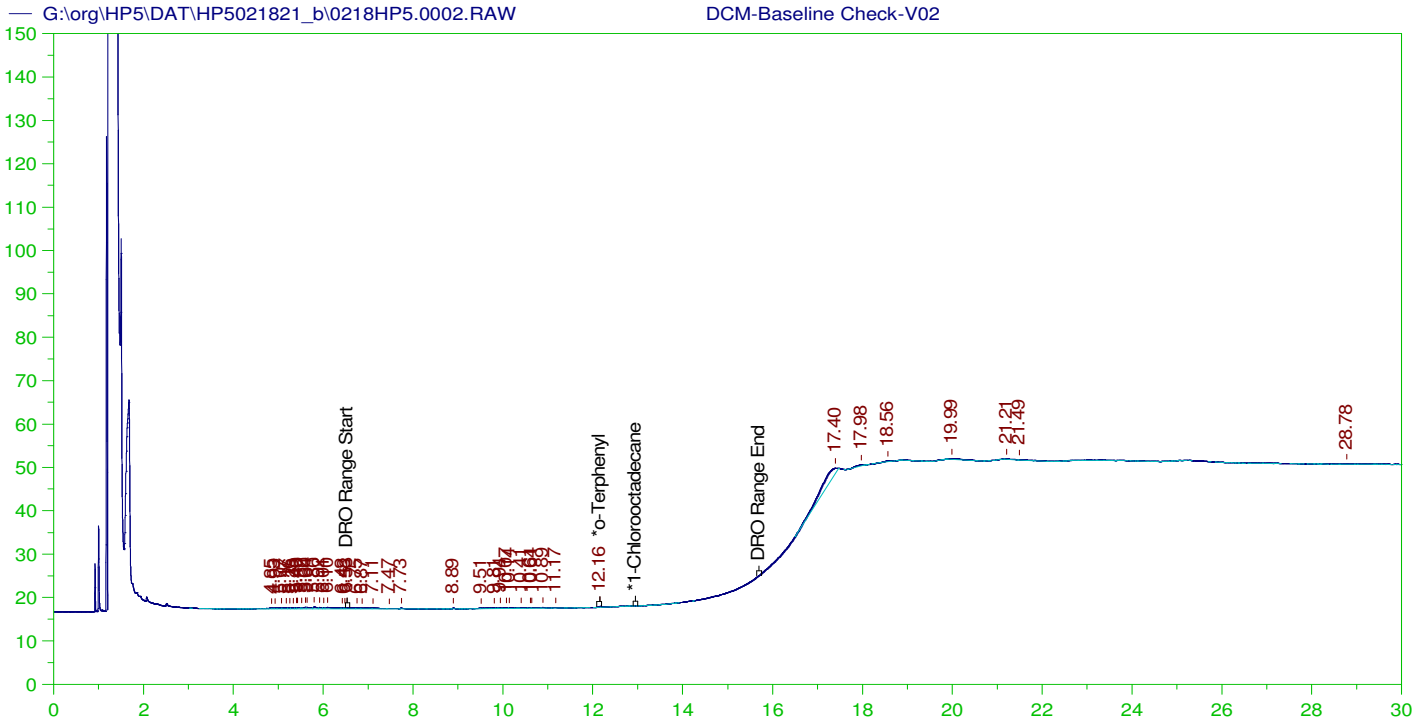
3 *1-Chlorooctadecane



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





DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

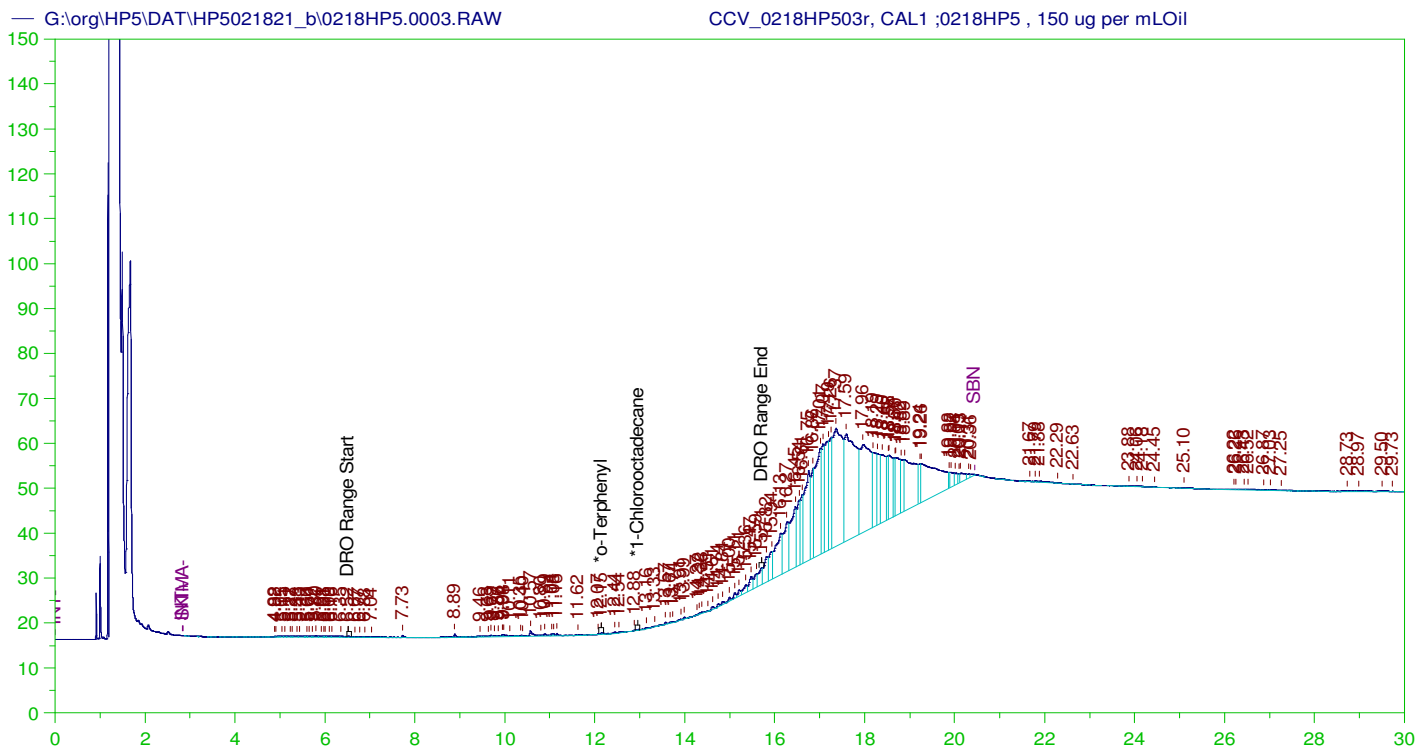
Sample Name: DCM-Baseline Check-V02
 Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0002.RAW
 Date & Time Acquired: 2/18/2021 11:21:40 AM
 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

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



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mL Oil
 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

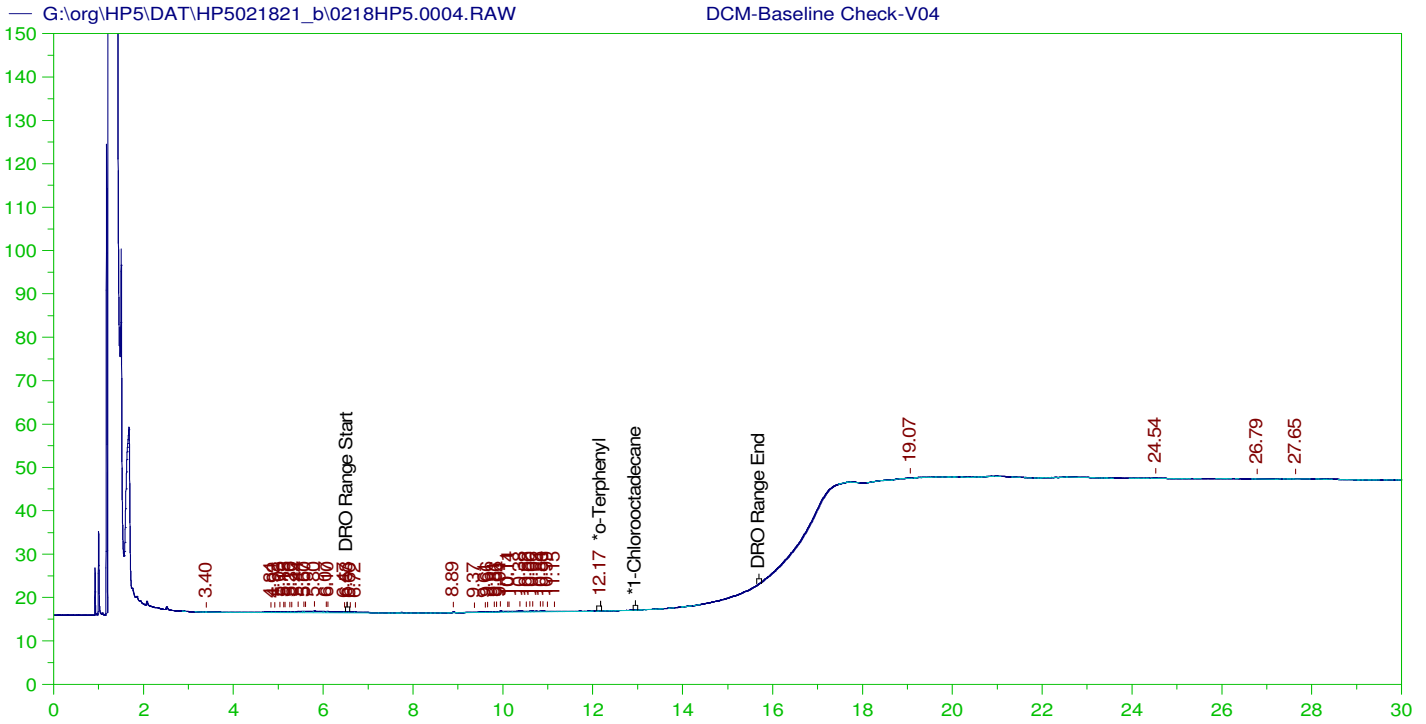
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.146	200.	.02	.01	-
*1-Chlorooctadecane	29.979	200.	.	.	-

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



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

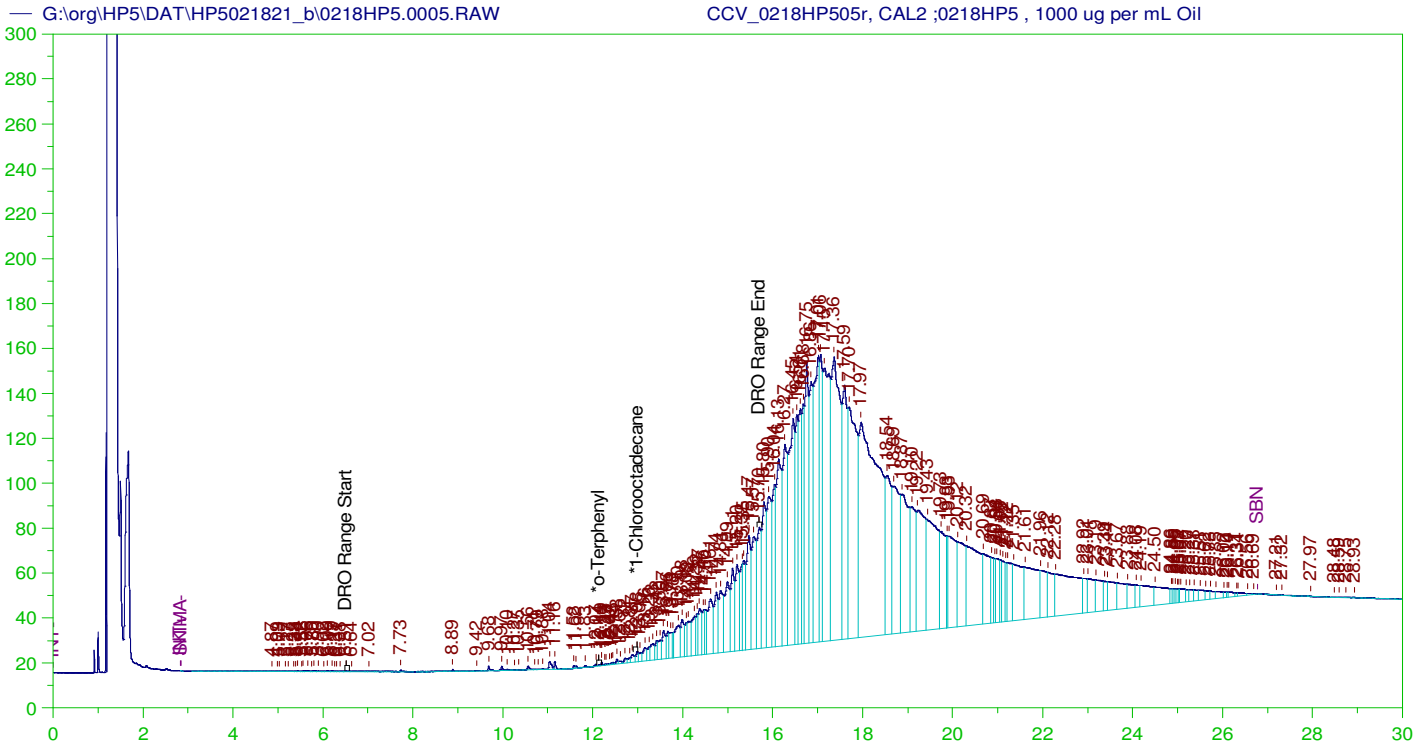
Sample Name: DCM-Baseline Check-V04
 Raw File: G:\org\HP5\DAT\HP5021821_b\0218HP5.0004.RAW
 Date & Time Acquired: 2/18/2021 12:45:36 PM
 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

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



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

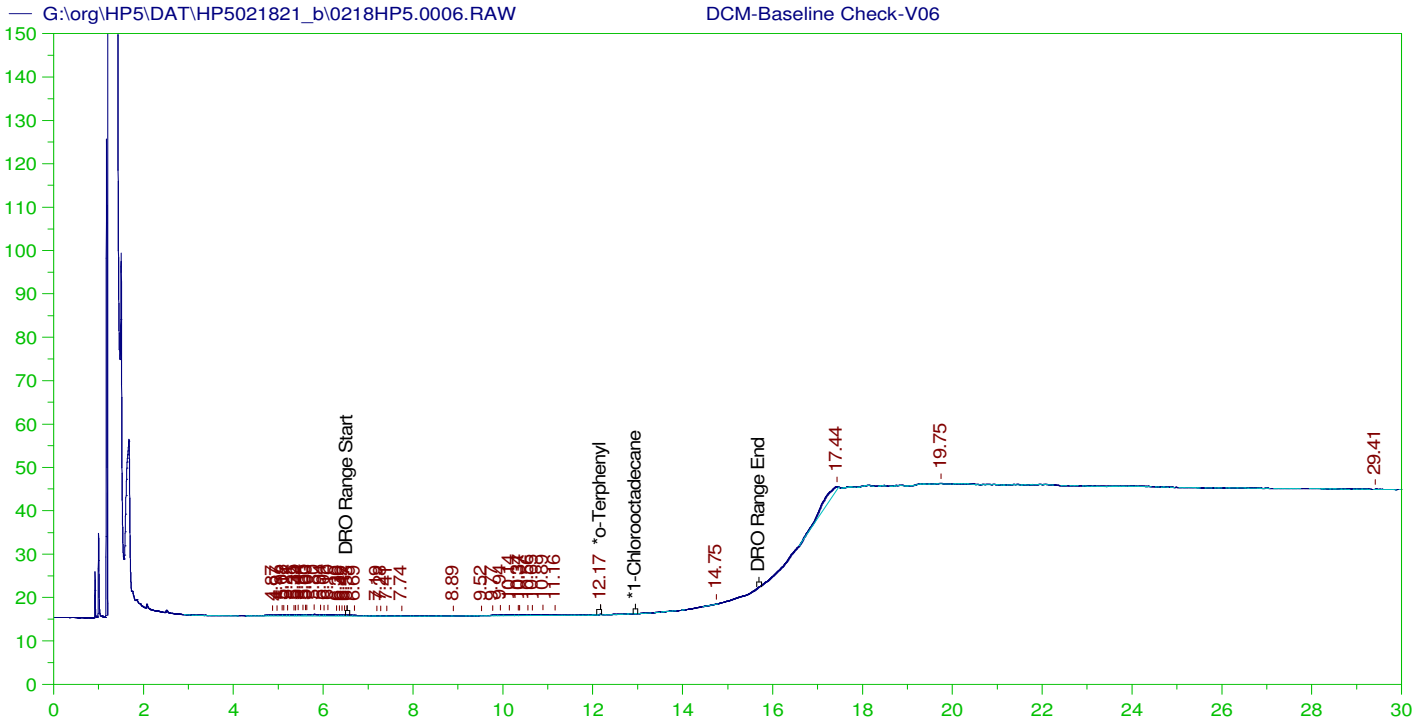
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.136	200.	.034	.02
*1-Chlorooctadecane	12.983	200.	.496	.25

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



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

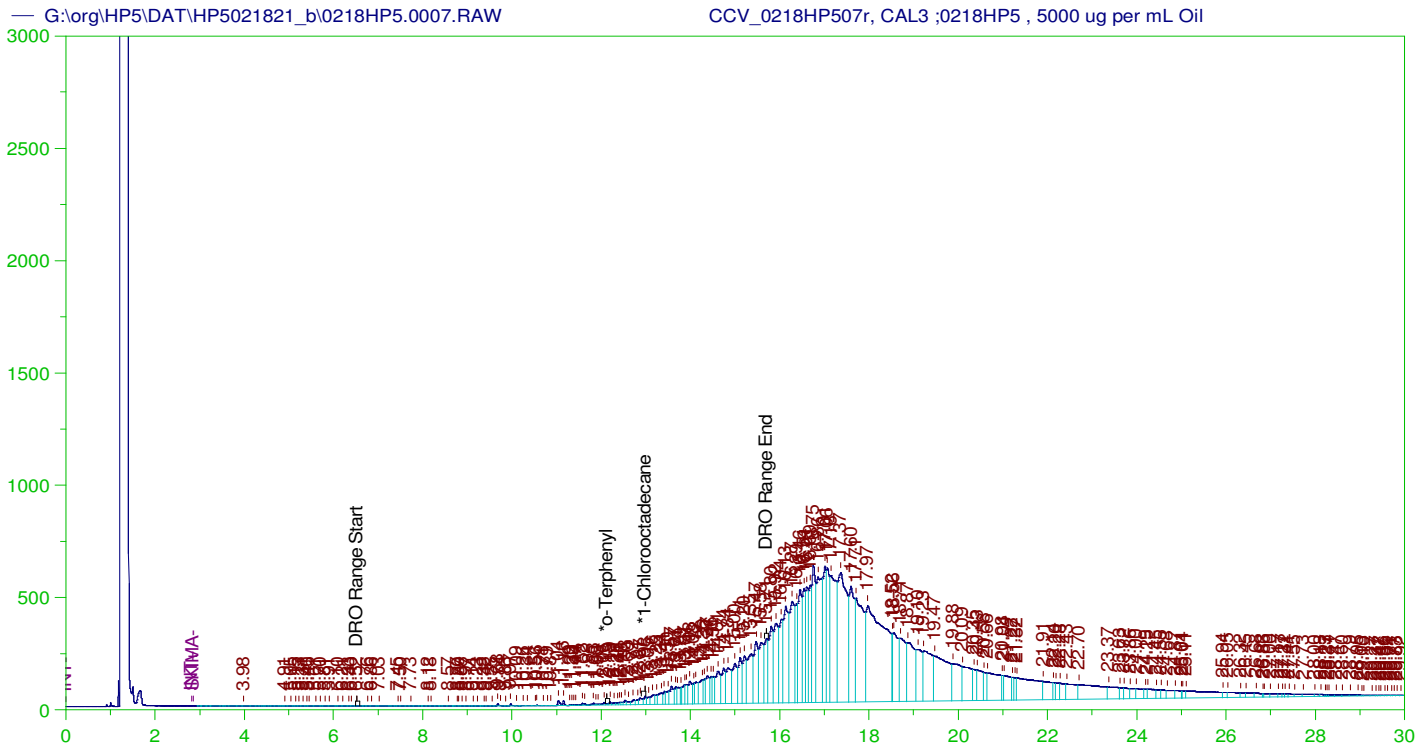
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 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

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



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

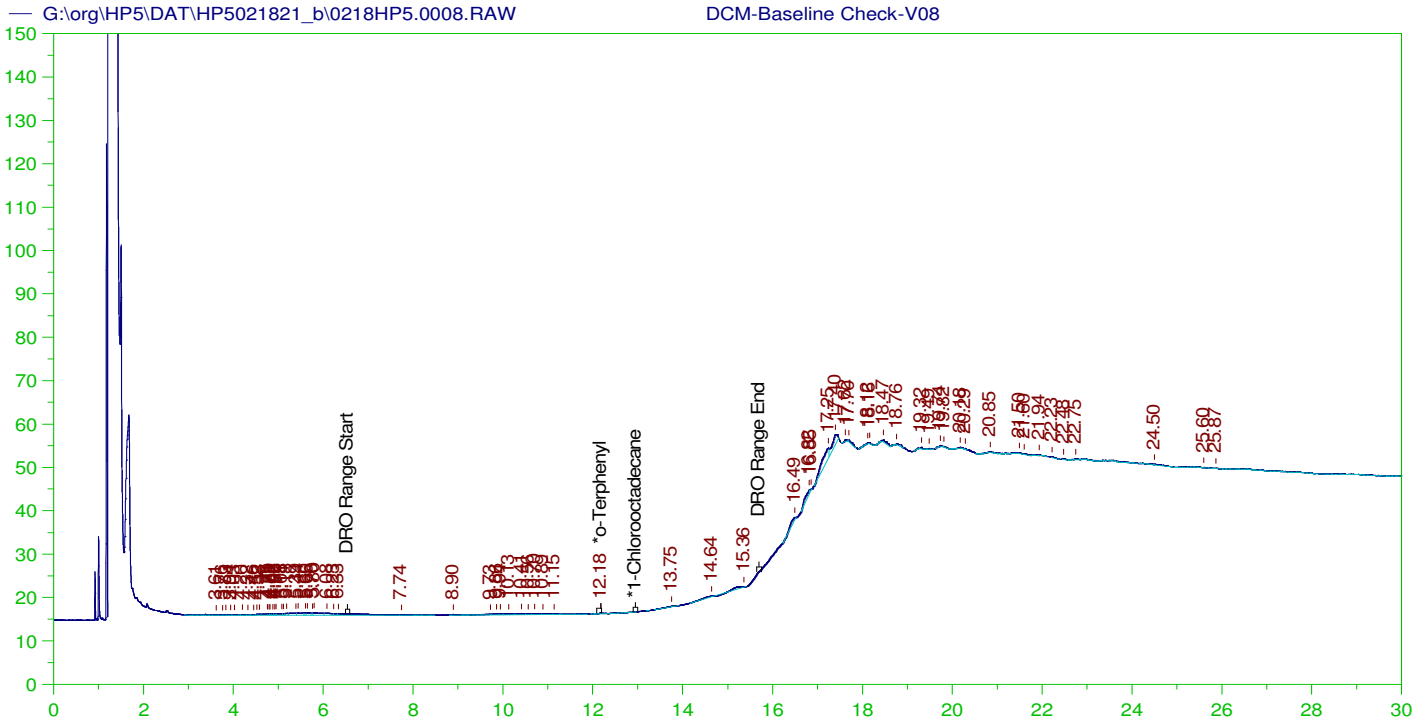
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.129	200.	.538	.27	-
*1-Chlorooctadecane	12.981	200.	4.244	2.12	-

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



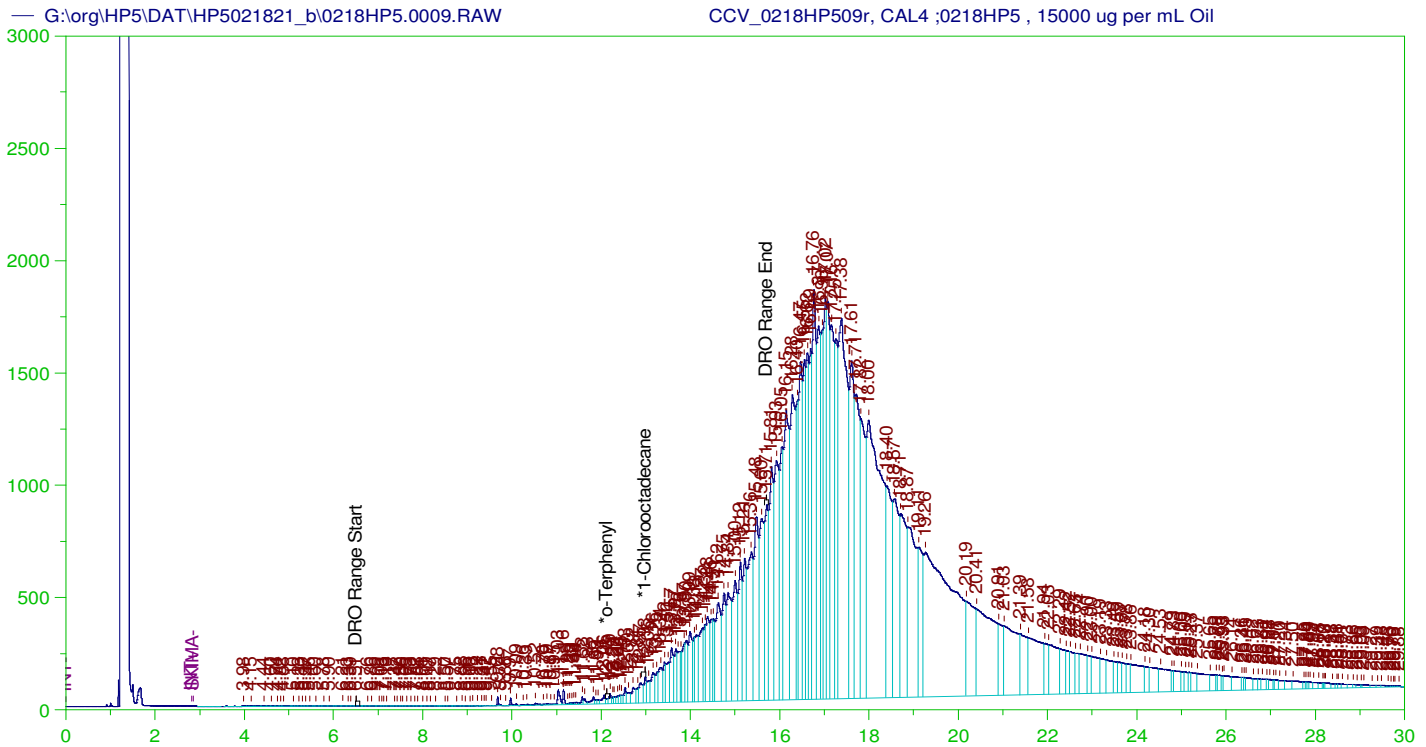
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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



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

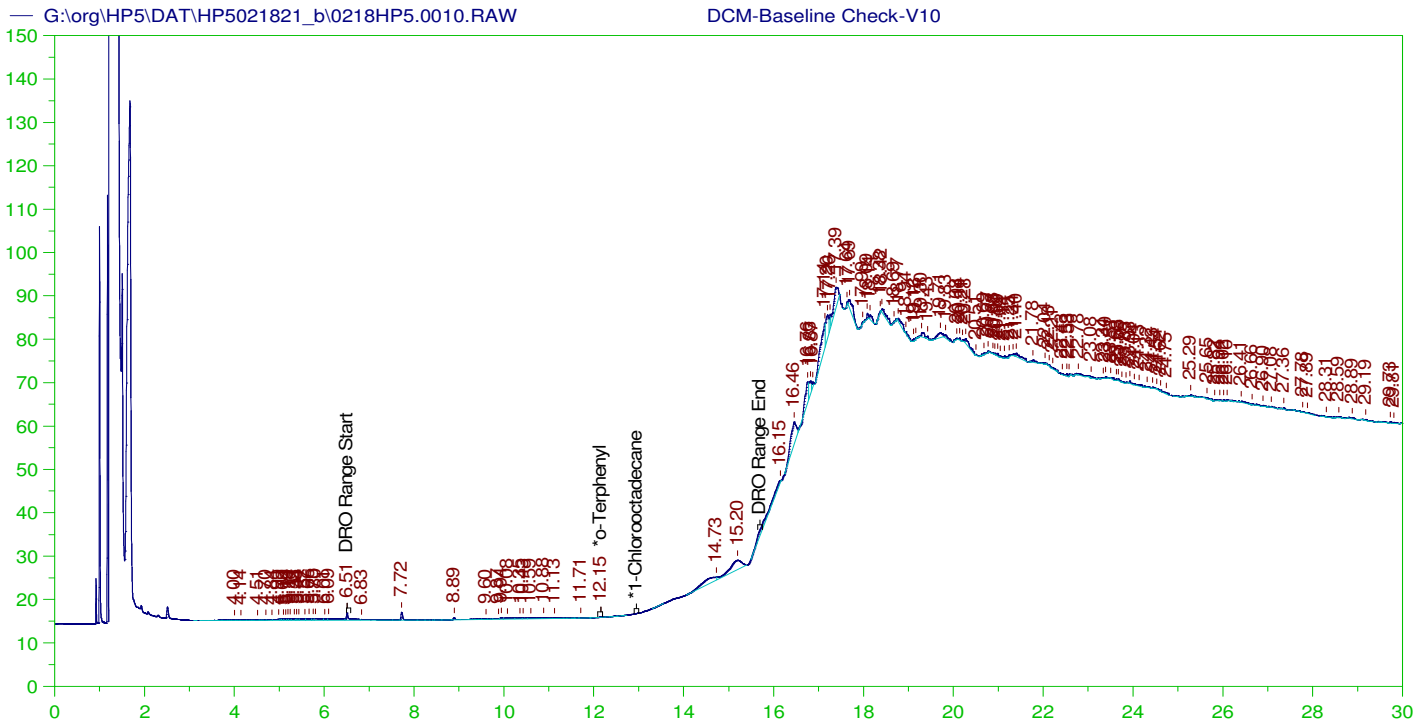
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.124	200.	1.888	.94	-
*1-Chlorooctadecane	12.984	200.	13.129	6.56	-

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



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

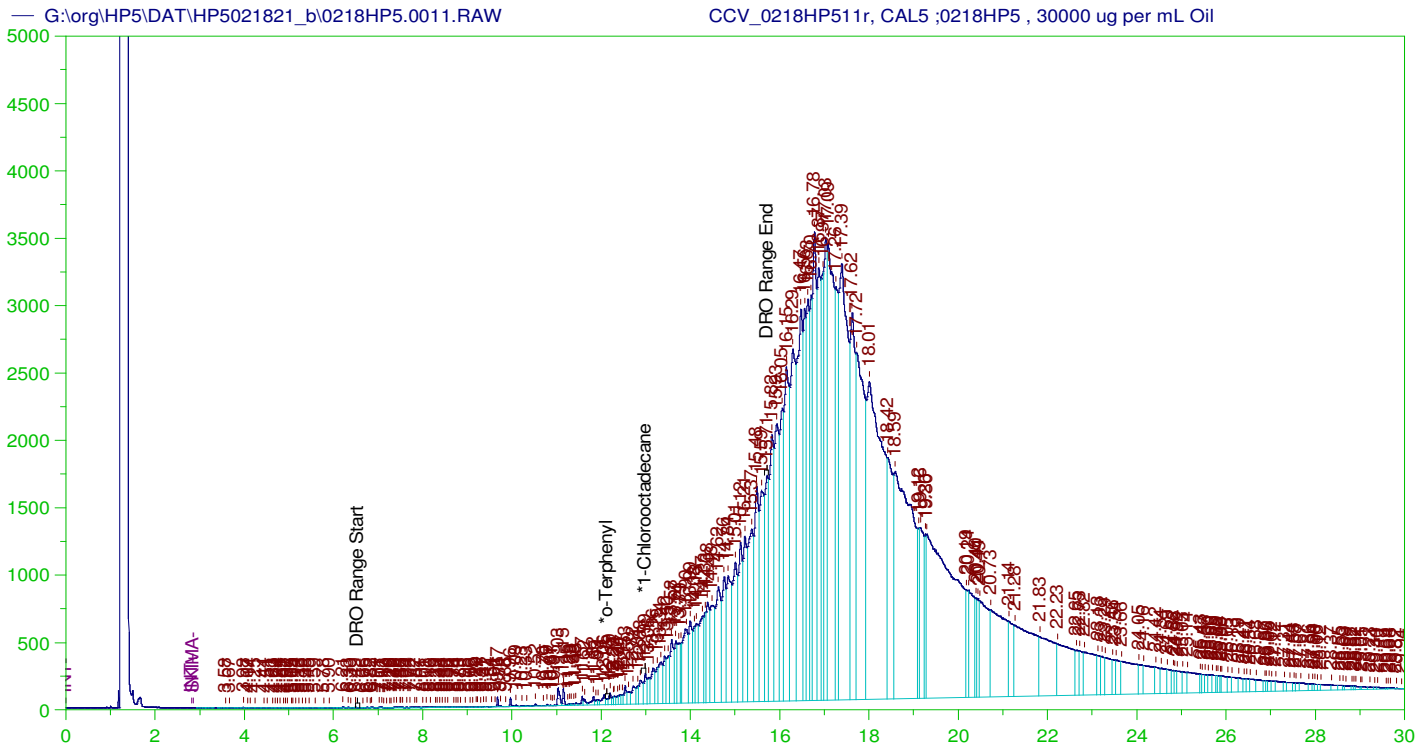
Sample Name: DCM-Baseline Check-V10
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 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

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

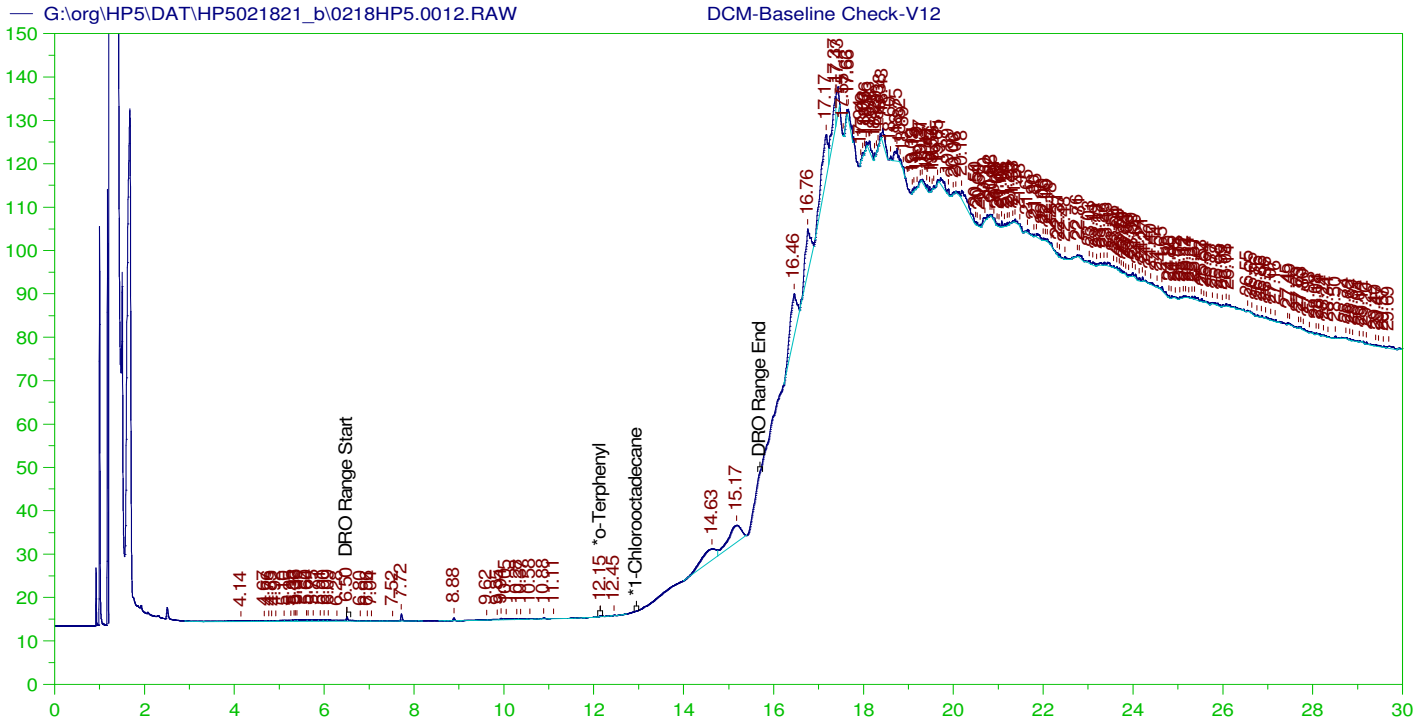
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.128	200.	3.828	1.91	-
*1-Chlorooctadecane	12.985	200.	28.22	14.11	-

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



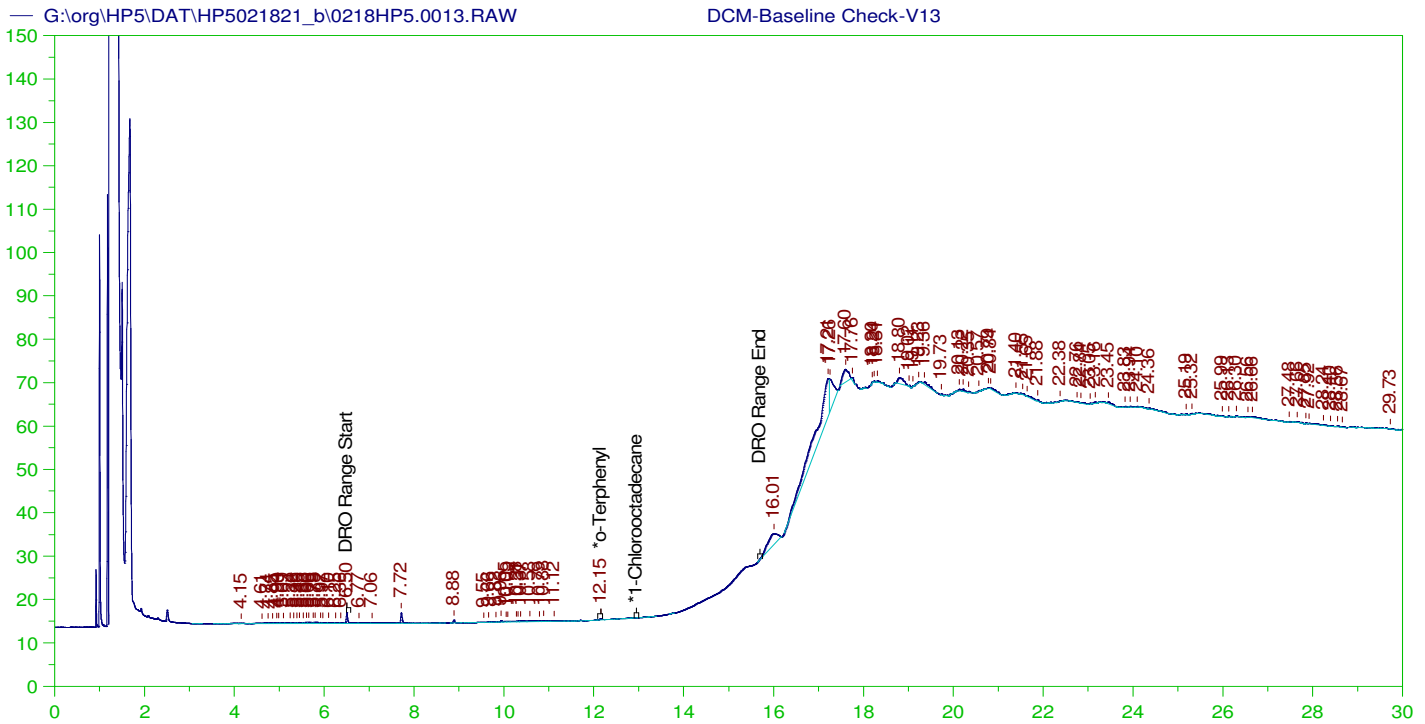
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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



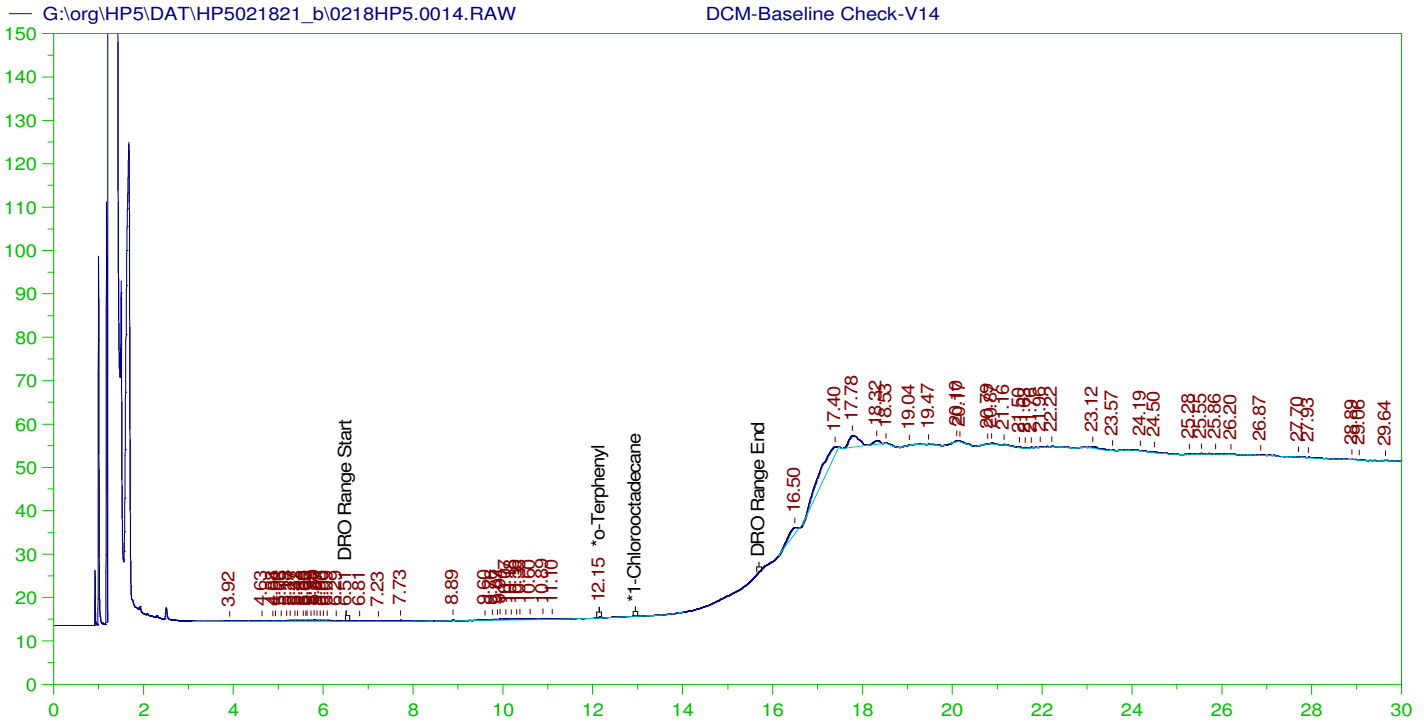
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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



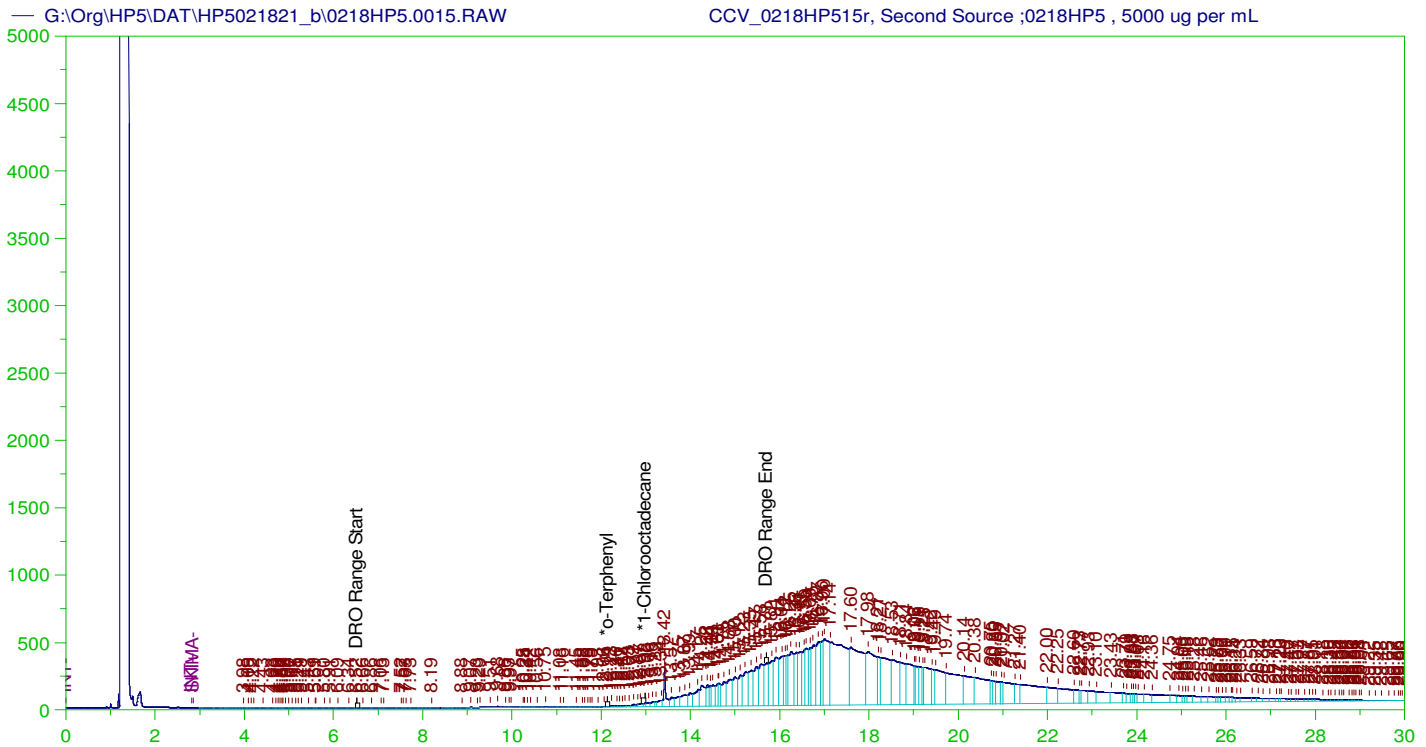
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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



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	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	1.62	85-115
*1-Chlorooctadecane	12.984	.2	1.62	1.62	85-115

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj	IS	Cal ID	Manual Integration
		Marker_0218HP501r, DRO C40 ;0218HP5_ , DRO210204A	G:\Org\HP5\Methods\CSC210212.met	1	1	1	1	0	No Integration
		DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integration
		CCV_0218HP503r, CAL1 ;0218HP5 , 150 ug per mL Oil (10 uL of Cal4 + 990 uL DCM(13510))	G:\Org\HP5\Methods\DR_OIL-021803-AA-L0.MET						The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 20.91 changed peak width and scale was set at 150 for the Yaxis.
		DCM-Baseline Check-V04	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integration
		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						The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 26.79 changed peak width and scale was set at 300 for the Yaxis.
		DCM-Baseline Check-V06	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integration
		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						The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the baseline. Scale was set at 3000 for the Yaxis.
		DCM-Baseline Check-V08	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integration
		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						The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the baseline. Scale was set at 3000 for the Yaxis.
		DCM-Baseline Check-V10	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integration
		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						The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the baseline. Scale was set at 5000 for the Yaxis.
		DCM-Baseline Check-V12	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integration
		DCM-Baseline Check-V13	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integration
		DCM-Baseline Check-V14	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integration
		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						The integration of Total Extractable Hydrocarbons (OIL) is the hydrocarbon response with reference to the baseline. Scale was set at 5000 for the Yaxis.



Digitally signed by
Ann Nebel
Date: 2021.10.29 12:03:40 -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
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14777567	CCV_1017HP50	HC-8015-DRO-	CAL1		10/17/2021 3:30:	1	R368813		0	0	
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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
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14777568	CCV_1017HP50	HC-8015-DRO-	CAL2		10/17/2021 4:12:	1	R368813		0	0	
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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
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14777569	CCV_1017HP50	HC-8015-DRO-	CAL3		10/17/2021 4:55:	1	R368813		0	0	
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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
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14777570	CCV_1017HP50	HC-8015-DRO-	CAL4		10/17/2021 5:38:	1	R368813		0	0	
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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					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
14777571	CCV_1017HP50	HC-8015-DRO-	CAL5		10/17/2021 6:20:	1	R368813		0	0						
n-Triacontane	S	mg/L		0.9372648		1	0	0	0.002	0.002	0	94%	80	120	0%	

Write Sequence	Data File	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 Triacotane (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 Triacotane (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 Triacotane (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 Triacotane (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 Triacotane (500 uL 2000 ug/mL Triacotane 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: 11

Creator: AMN

Description: 8015C-Oil Range. New ICal Per 1017HP5 (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

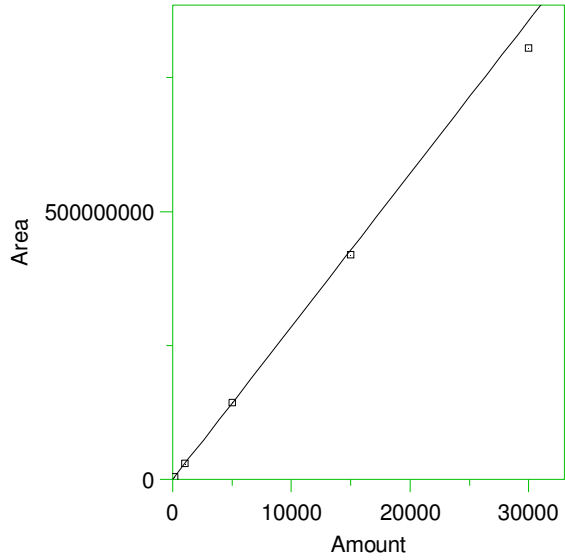
No default component

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

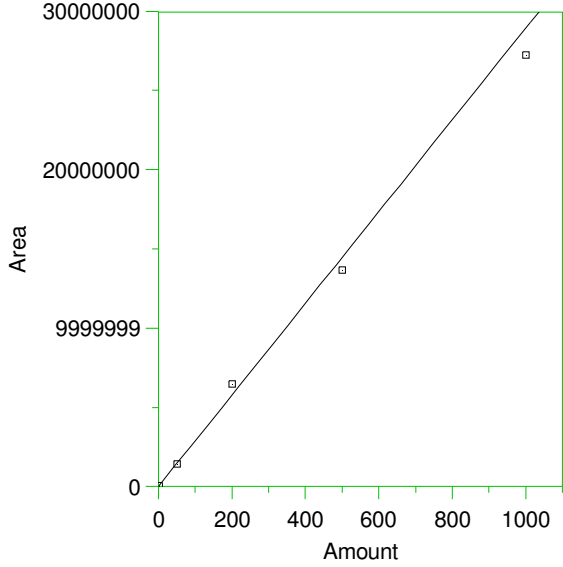
$Y = 28542.41 X + 0$

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

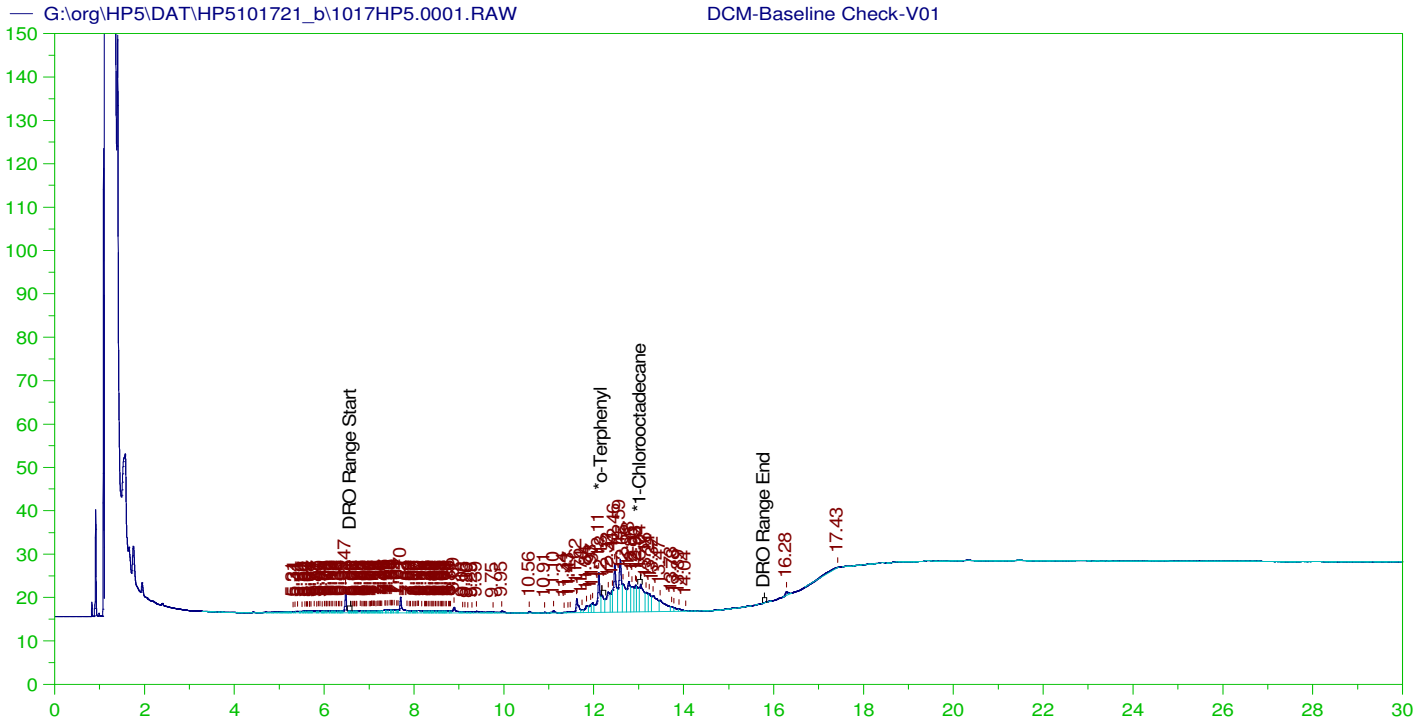
3

*#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



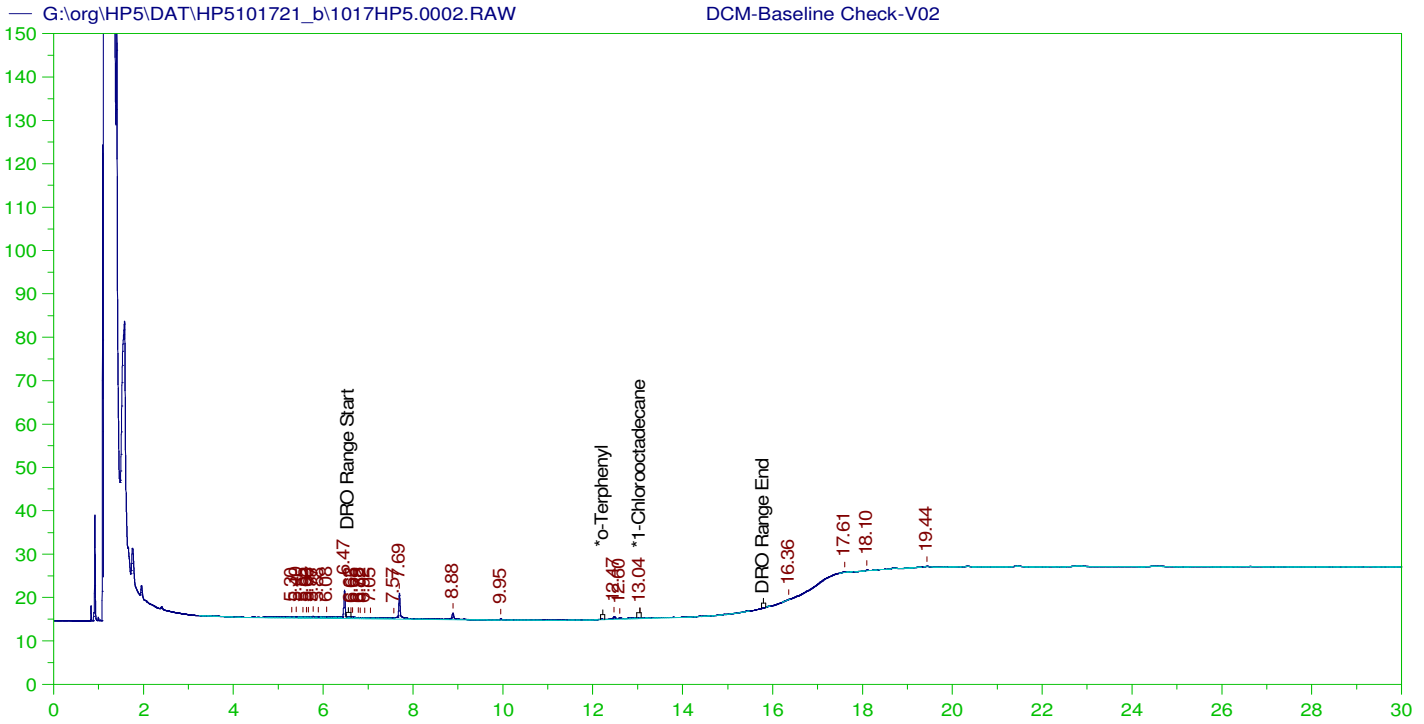
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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



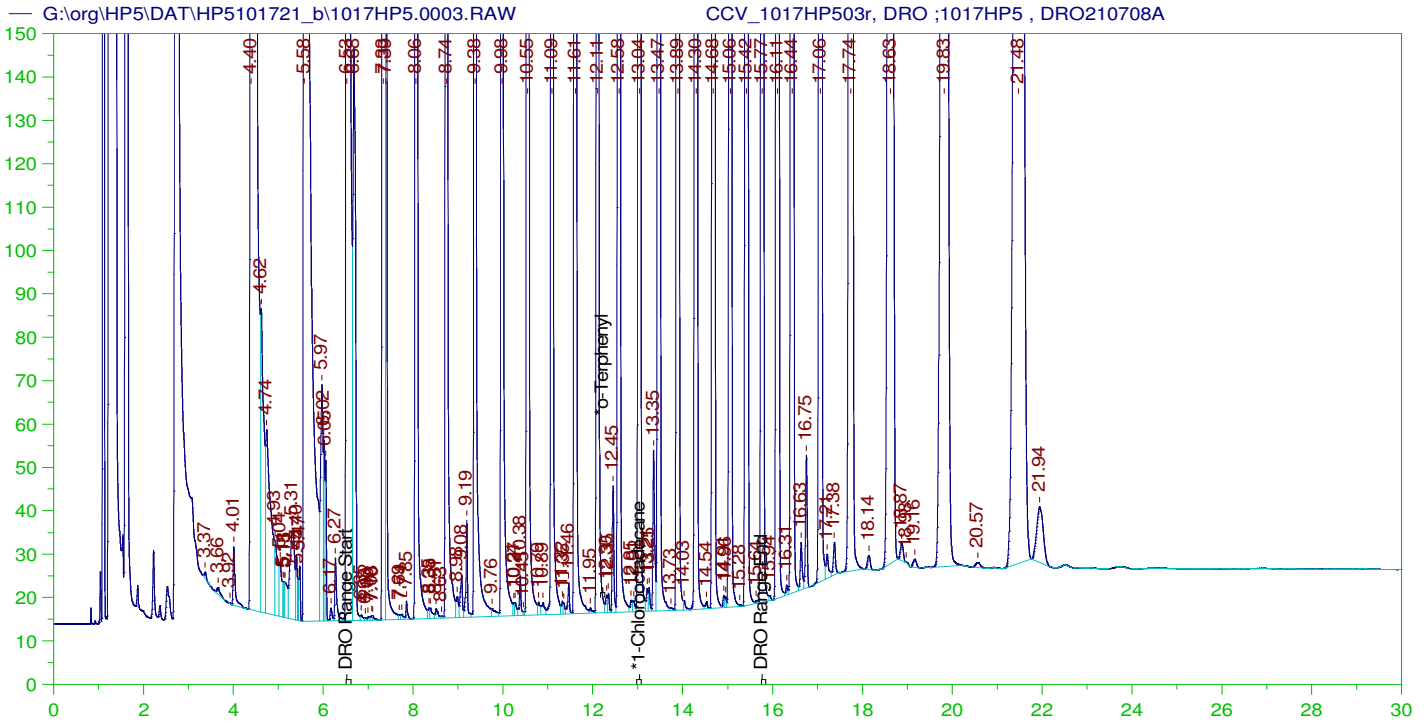
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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



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

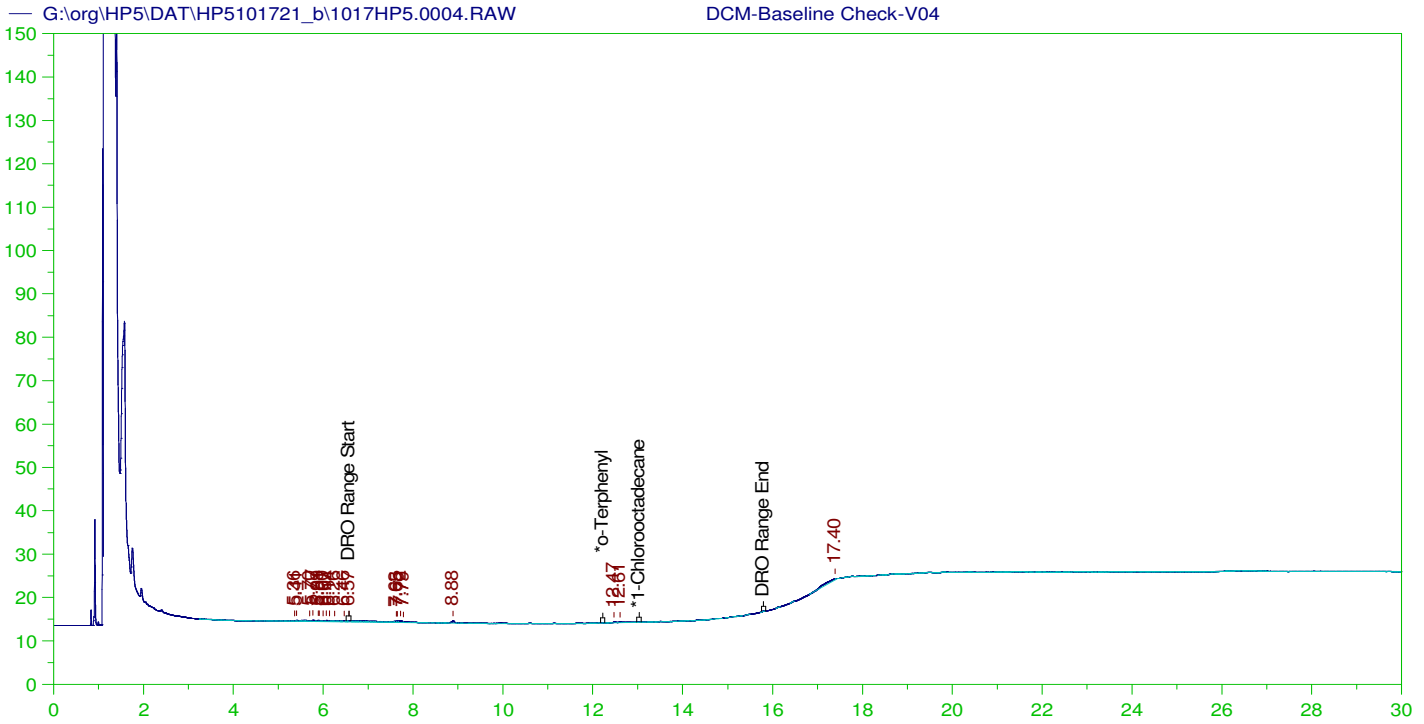
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.982	200.	.	-
*1-Chlorooctadecane	13.037	200.	255.634	127.82 -

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



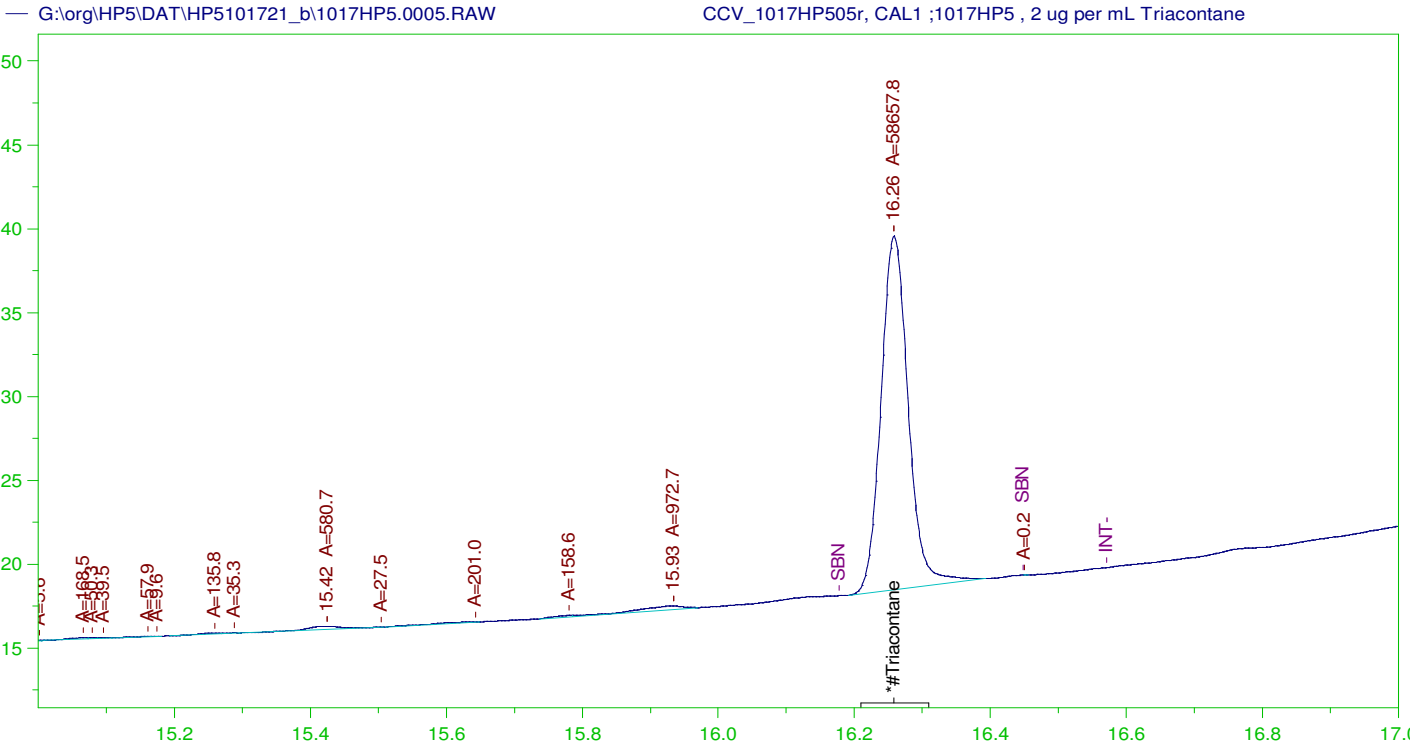
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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



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

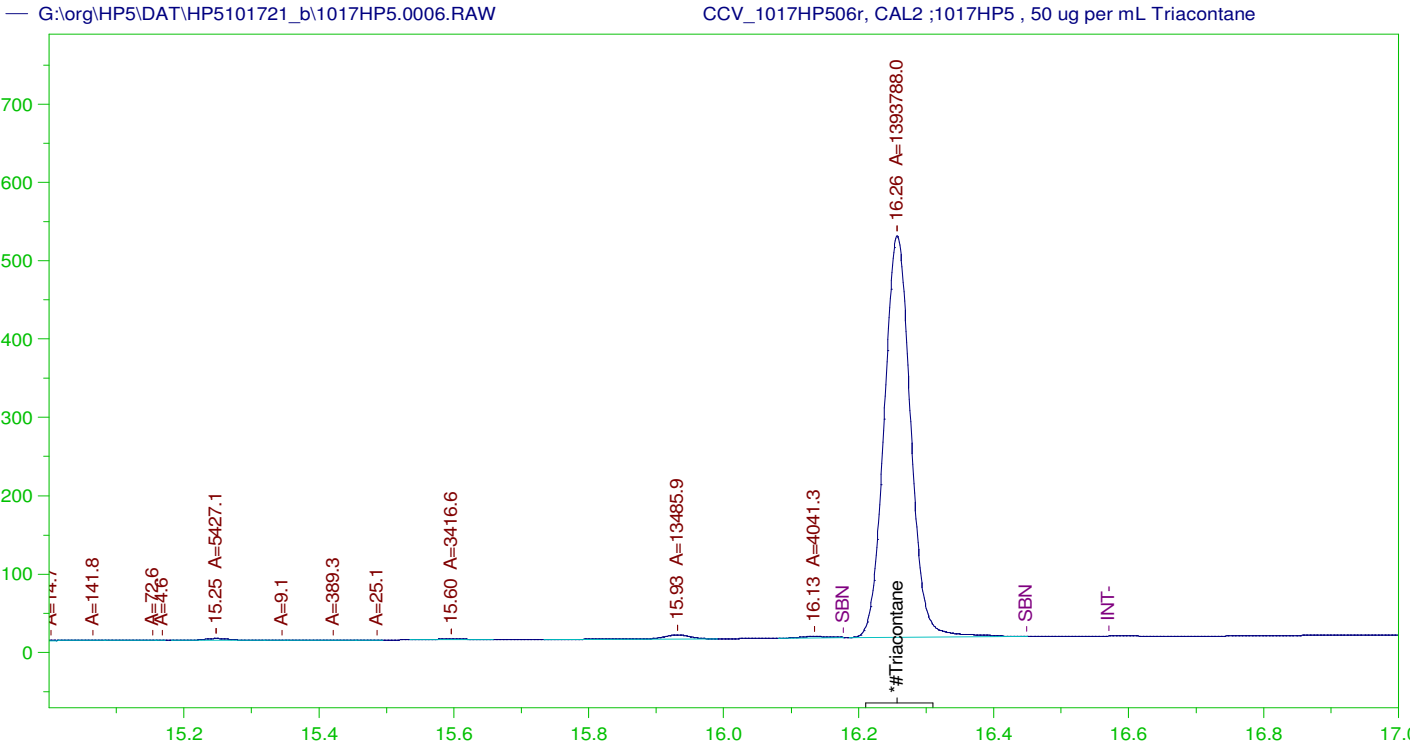
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.258	500.	2.028	.41	-

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

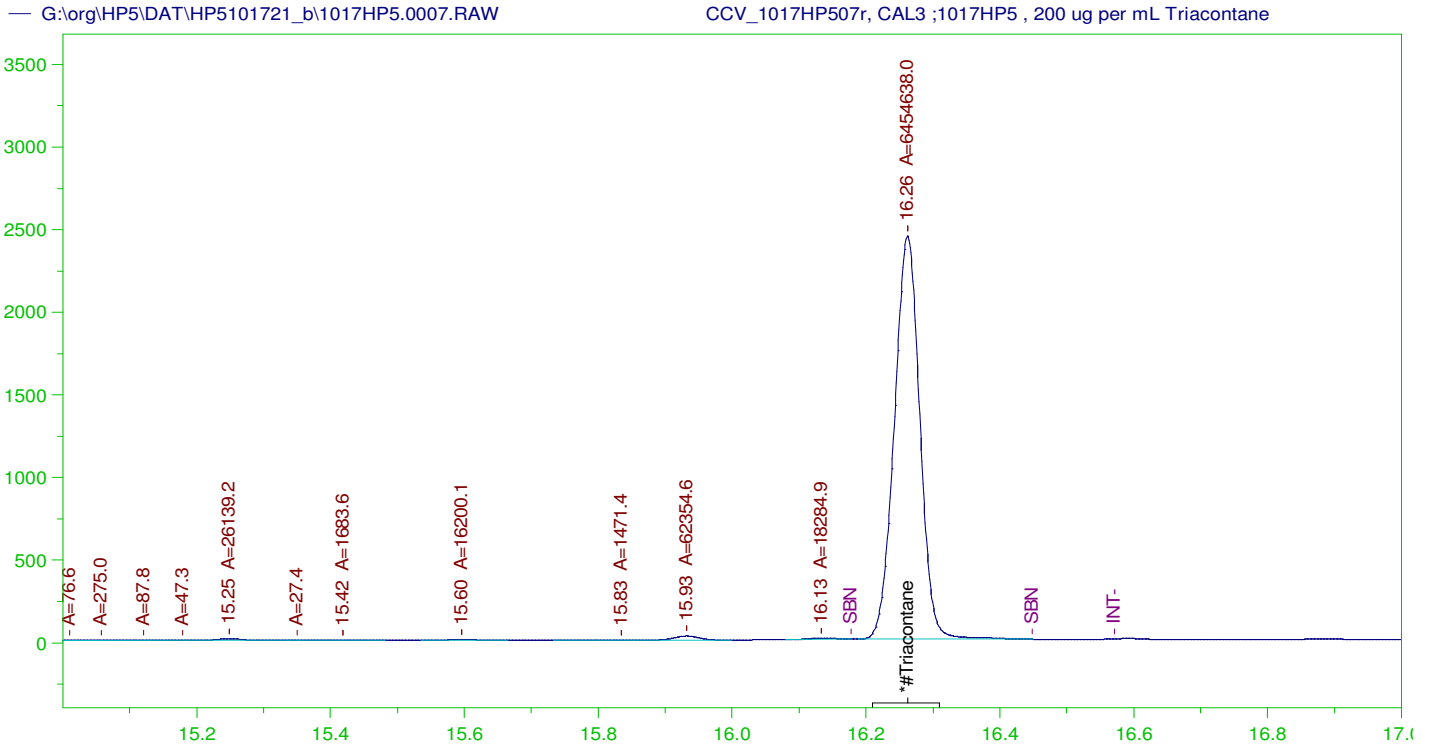
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.257	500.	48.178	9.64	-

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

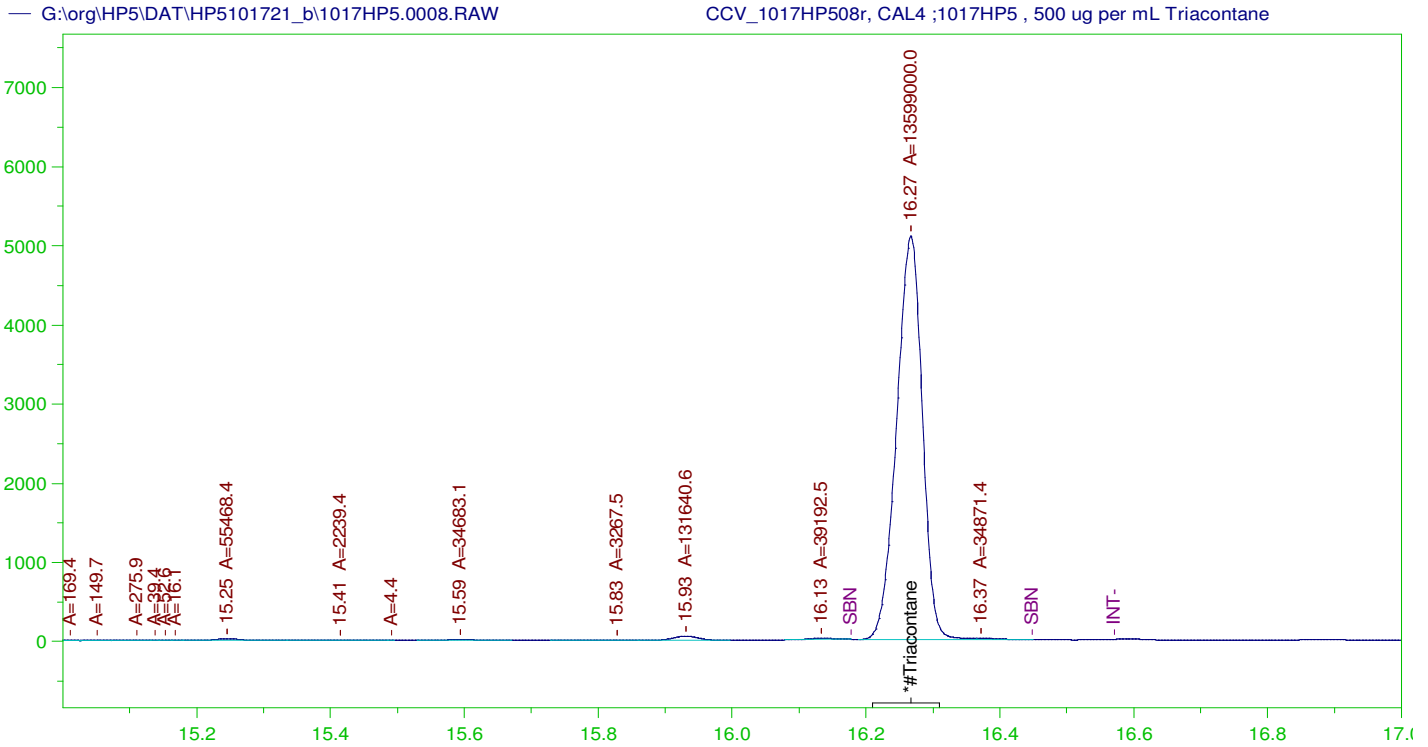
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.262	500.	223.111	44.62

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

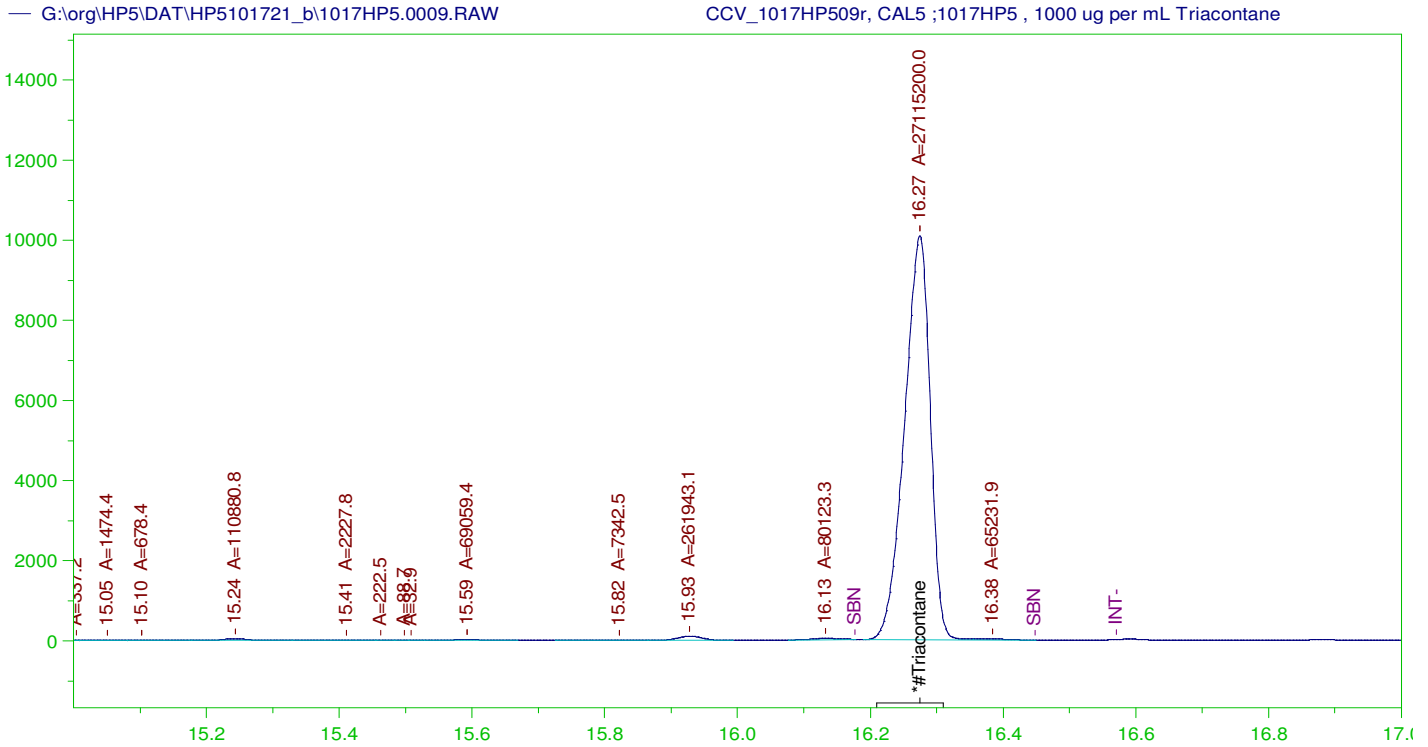
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.267	500.	470.063	94.01	-

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

Write Sequence	Data File	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 Triacotane (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 Triacotane (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 Triacotane (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 Triacotane (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 Triacotane (500 uL 2000 ug/mL Triacotane 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



Digitally signed by
Ann Nebel
Date: 2021.10.25 17:42:58 -06:00

PREP BATCH REPORT

Prep Code: **HC-3520-DRO**
 Prep Batch **161348** Prep Temp: **NA °C**

Technician: **Ann Nebel**
 Batch Units: **ML**

Prep Start Date: **11/15/2021 2:22:30 P**
 Prep End Date: **11/16/2021 11:47:00 A**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
MB-161348			1000	0	0	1.00	0.001		11/15/2021	11/16/2021
Start time: 2:20 PM, 11/15/2021. End time: 11/16/2021 at 8:20 AM. SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
LCS-161348			1000	0	0	1.00	0.001		11/15/2021	11/16/2021
All bottles were completely used, defaced and disposed of on 11/15/2021. SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
LCSD-161348			1000	0	0	1.00	0.001		11/15/2021	11/16/2021
SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
LCSD-161348-RRO			1000	0	0	1.00	0.001		11/15/2021	11/16/2021
SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
LCS-161348-RRO			1000	0	0	1.00	0.001		11/15/2021	11/16/2021
SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
B21111298-001A	Ground Water	2	900	0	0	1.00	0.00111		11/15/2021	11/16/2021
Jar 1/2 Light sediment. SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
B21111298-001AMS	Ground Water	2	900	0	0	1.00	0.00111		11/15/2021	11/16/2021
Jar 2/2 Light sediment. SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
B21111298-002A	Ground Water	2	1040	0	0	1.00	0.000962		11/15/2021	11/16/2021
Jar 1/2 Light sediment. SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
B21111298-002AMS-RRO	Ground Water	2	1040	0	0	1.00	0.000962		11/15/2021	11/16/2021
Jar 2/2 Light sediment. SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
B21111290-001B	Ground Water	2	1050	0	0	1.00	0.000952		11/15/2021	11/16/2021
Jar 1/2 Clear										
B21111298-003A	Ground Water	2	1040	0	0	1.00	0.000962		11/15/2021	11/16/2021
Jar 1/2 Light sediment SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
B21111298-004A	Ground Water	2	1000	0	0	1.00	0.001		11/15/2021	11/16/2021
Jar 1/2 Turbid with light sediment. SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
B21111298-005A	Ground Water	2	1050	0	0	1.00	0.000952		11/15/2021	11/16/2021
Jar 1/2 Clear SGT was performed by ALN on 11/18/2021 with remaining sample amount.										
B21111298-006A	Drinking Water	2	1040	0	0	1.00	0.000962		11/15/2021	11/16/2021
Jar 1/2 Clear										

Number	Reagent Name	Exp Date
11	Carbon Filter Water	1/1/2023
13379	PTFE Boiling Stones 27463755	12/30/2025
14181	4ML, Amber Vial, 24166704	8/17/2026
14206	pH-indicator Strips 0-14 HC160347	8/26/2026
14470	Dichloromethane EC480	9/16/2023

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP211110 14244	DCM RINSED FILTER PAPER	all	1	4/6/2026
Sulfate 10/20/21 (	Baked Sodium Sulfate	all	Varies	8/30/2026
DRO211115A	Triacontane SURR 1000 ug/mL	all except LCS/D,	100 uL	4/6/2026
DRO211012J	OTP/COD SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
SG211117(13376)	Baked Silica Gel	all-SGT samples	5g	2/28/2030
DRO211012B	#2 Diesel in Acetone 150,000 ug/mL	LCS,LCSD, MS	100 uL	11/5/2023
DRO210902A	50,000 ug/mL Oil Std for RRO-In D	LCS/D-RRO, MS-	100 uL	9/1/2026

PREP BATCH REPORT

Prep Code: **HC-3520-DRO**
 Prep Batch **161348** Prep Temp: **NA °C**

Technician: **Ann Nebel**
 Batch Units: **ML**

Prep Start Date: **11/15/2021 2:22:30 P**
 Prep End Date: **11/16/2021 11:47:00 A**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
B21111298-007A Jar 1/2 Clear	Drinking Water	2	1010	0	0	1.00	0.00099		11/15/2021	11/16/2021
B21111298-008A Jar 1/2 Clear SGT was performed by ALN on 11/19/2021 with remaining sample amount.	Drinking Water	2	1050	0	0	1.00	0.000952		11/15/2021	11/16/2021

Number	Reagent Name	Exp Date
11	Carbon Filter Water	1/1/2023
13379	PTFE Boiling Stones 27463755	12/30/2025
14181	4ML, Amber Vial, 24166704	8/17/2026
14206	pH-indicator Strips 0-14 HC160347	8/26/2026
14470	Dichloromethane EC480	9/16/2023

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP211110 14244	DCM RINSED FILTER PAPER	all	1	4/6/2026
Sulfate 10/20/21 (	Baked Sodium Sulfate	all	Varies	8/30/2026
DRO211115A	Triacontane SURR 1000 ug/mL	all except LCS/D,	100 uL	4/6/2026
DRO211012J	OTP/COD SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
SG211117(13376)	Baked Silica Gel	all-SGT samples	5g	2/28/2030
DRO211012B	#2 Diesel in Acetone 150,000 ug/mL	LCS,LCSD, MS	100 uL	11/5/2023
DRO210902A	50,000 ug/mL Oil Std for RRO-In D	LCS/D-RRO, MS-	100 uL	9/1/2026

Energy Laboratories Inc

ANALYTICAL RUN Summary

21-Nov-21

Run ID GCFID-HP5-B_211116A

Run Start Date: 11/16/2021
Analyst: Ann Nebel
Ical:
Column ID:
Comments: DRO-8015-ICAL information is in Index GCFID-HP5-B_211102A 8015C OIL range calibration GCFID-HP5-B_210218B

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO211103B	ALASKA MARKER-200ug/mL					MARKER	5/31/2022
DRO211108A	5,000 ug/mL RRO CCV 200 ug/mL Triacotane					CCV-OIL	4/6/2026
DRO211110A	Carbon Scan STD-Marker					MARKER-C	3/5/2028
DRO211110B	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					
14868841	MARKER_1116	HC-8015-DRO-	SAMP		11/16/2021 11:1	1	R370473		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		2.308236		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.733261		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.214229		0.2	0	0	0.000429	0.002	0	107%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.308236		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					
14868842	CCV_1116HP50	HC-8015-DRO-	CCV		11/16/2021 12:0	1	R370473		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		4.61104639		5	0	0	0.0879	0.3	0	92%	80	120	0%	
n-Triacotane	S	mg/L		0.1961497		0.2	0	0	0.000336	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					
14868843	CCV_1116HP50	HC-8015-DRO-	CCV		11/16/2021 12:4	1	R370473		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		15.13569		15	0	0	0.0389	0.3	0	101%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.66674		15	0	0	0.0749	0.3	50	104%	80	120	0%	
o-Terphenyl	S	mg/L		0.2039808		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					
14868844	LCS-161348	HC-8015-DRO-	LCS-DOD		11/16/2021 2:09:	1	161348	11/15/2021	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		12.17619		15	0	0	0.0389	0.3	0	81%	36	132	0%	
Total Extractable Hydrocarbons	A	mg/L		13.00799		15	0	0	0.0749	0.3	50	87%	60	132	0%	
o-Terphenyl	S	mg/L		0.1799393		0.2	0	0	0.000429	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					
14868845	LCSD-161348	HC-8015-DRO-	LCSD-DOD		11/16/2021 2:51:	1	161348	11/15/2021	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		12.59349		15	0	12.17619	0.0389	0.3	0	84%	36	132	3%	
Total Extractable Hydrocarbons	A	mg/L		13.47996		15	0	13.00799	0.0749	0.3	50	90%	60	132	4%	
o-Terphenyl	S	mg/L		0.18688		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					
14868846	MB-161348	HC-8015-DRO-	MBLK		11/16/2021 3:34:	1	161348	11/15/2021	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		0.0949		0.1	0	0	0.000336	0.002	0	95%	50	150	0%	
o-Terphenyl	S	mg/L		0.1897122		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					
14868847	B21111298-007	HC-8015-DRO-	SAMP		11/16/2021 4:16:	1	161348	11/15/2021	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					
14868847	B21111298-007	HC-8015-DRO-	SAMP		11/16/2021 4:16:	1	161348	11/15/2021	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
n-Triacontane	S	mg/L		0.0894		0.099	0	0	0.0003326	0.00198	0	90%	50	150	0%	
o-Terphenyl	S	mg/L		0.1781587		0.198	0	0	0.0004247	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					
14868848	B21111298-006	HC-8015-DRO-	SAMP		11/16/2021 4:59:	1	161348	11/15/2021	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
n-Triacontane	S	mg/L		0.0839		0.0962	0	0	0.0003232	0.001924	0	87%	50	150	0%	
o-Terphenyl	S	mg/L		0.1647383		0.1924	0	0	0.0004127	0.002	0	86%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14868850	B21111298-004	HC-8015-DRO-	SAMP		11/16/2021 7:52:	1	161348	11/15/2021	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		0.08598633		0	0	0	0.0389	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.11270408		0	0	0	0.0879	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.2282681		0	0	0	0.0749	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.0974		0.1	0	0	0.000336	0.002	0	97%	50	150	0%	
o-Terphenyl	S	mg/L		0.1853966		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					
14868851	B21111298-003	HC-8015-DRO-	SAMP		11/16/2021 8:36:	1	161348	11/15/2021	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		0.2004832		0	0	0	0.0374218	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.31257191		0	0	0	0.0845598	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0.7393008		0	0	0	0.0720538	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.0831		0.0962	0	0	0.0003232	0.001924	0	86%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14868851	B21111298-003	HC-8015-DRO-	SAMP		11/16/2021 8:36:	1	161348	11/15/2021	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.1488516		0.1924	0	0	0.0004127	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					
14868852	MARKER_1116	HC-8015-DRO-	SAMP		11/16/2021 10:4	1	R370473		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		2.269517		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.670806		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2102352		0.2	0	0	0.000429	0.002	0	105%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.269517		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					
14868853	CCV_1116HP52	HC-8015-DRO-	CCV		11/16/2021 11:2	1	R370473		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		4.60332422		5	0	0	0.0879	0.3	0	92%	80	120	0%	
n-Triacontane	S	mg/L		0.1941465		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					
14868854	CCV_1116HP52	HC-8015-DRO-	CCV		11/17/2021 12:1	1	R370473		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		15.52059		15	0	0	0.0389	0.3	0	103%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.52059		15	0	0	0.0749	0.3	50	103%	80	120	0%	
o-Terphenyl	S	mg/L		0.2033971		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					
14868855	MARKER_1116	HC-8015-DRO-	SAMP		11/17/2021 10:3	1	R370473		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		2.292255		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.701814		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2125859		0.2	0	0	0.000429	0.002	0	106%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.292255		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					
14868856	CCV_1116HP53	HC-8015-DRO-	CCV		11/17/2021 11:2	1	R370473		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		15.0555		15	0	0	0.0389	0.3	0	100%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.58237		15	0	0	0.0749	0.3	50	104%	80	120	0%	
o-Terphenyl	S	mg/L		0.2035037		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					
14868857	CCV_1116HP53	HC-8015-DRO-	CCV		11/17/2021 12:0	1	R370473		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		4.59998047		5	0	0	0.0879	0.3	0	92%	80	120	0%	
n-Triacontane	S	mg/L		0.1918575		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					
14868858	B21111290-001	HC-8015-DRO-	SAMP		11/17/2021 2:13:	1	161348	11/15/2021	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		0.0853		0.0952	0	0	0.0003199	0.001904	0	90%	50	150	0%	
o-Terphenyl	S	mg/L		0.1532262		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					
14868859	B21111298-005	HC-8015-DRO-	SAMP		11/17/2021 2:55:	1	161348	11/15/2021	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		0.04337419		0	0	0	0.0370328	0.3	0	0%	0	0	0%	J
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		0.1344484		0	0	0	0.0713048	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.0886		0.0952	0	0	0.0003199	0.001904	0	93%	50	150	0%	
o-Terphenyl	S	mg/L		0.1761968		0.1904	0	0	0.0004084	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					
14868860	B21111298-001	HC-8015-DRO-	SAMP		11/17/2021 4:20:	1	161348	11/15/2021	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		0.8794787		0	0	0	0.043179	0.333	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.70942092		0	0	0	0.097569	0.333	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		1.677516		0	0	0	0.083139	0.333	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1034		0.111	0	0	0.000373	0.00222	0	93%	50	150	0%	
o-Terphenyl	S	mg/L		0.1990516		0.222	0	0	0.0004762	0.00222	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					
14868861	B21111298-001	HC-8015-DRO-	MS-DOD		11/17/2021 5:03:	1	161348	11/15/2021	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		15.1399		16.65	0.8794787	0	0.043179	0.333	0	86%	36	132	0%	
Total Extractable Hydrocarbons	A	mg/L		17.17503		16.65	1.677516	0	0.083139	0.333	50	93%	60	132	0%	
o-Terphenyl	S	mg/L		0.2105511		0.222	0	0	0.0004762	0.00222	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					
14868862	B21111298-002	HC-8015-DRO-	SAMP		11/17/2021 6:29:	1	161348	11/15/2021	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		2.438287		0	0	0	0.0374218	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.54060173		0	0	0	0.0845598	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.201873		0	0	0	0.0720538	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.0865		0.0962	0	0	0.0003232	0.001924	0	90%	50	150	0%	
o-Terphenyl	S	mg/L		0.114739		0.1924	0	0	0.0004127	0.002	0	60%	56	125	0%	
TEH(Oil Range)	X	mg/L		1.20292997		0	0	0	0.0845598	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					
14868863	B21111298-002	HC-8015-DRO-	MS-DOD		11/17/2021 7:12:	1	161348	11/15/2021	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		5.28669262		4.81	1.20293	0	0.0845598	0.3	0	85%	41	113	0%	
n-Triacontane	S	mg/L		0.0792		0.0962	0	0	0.0003232	0.002	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					
14868864	MARKER_1116	HC-8015-DRO-	SAMP		11/17/2021 8:38:	1	R370473		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		2.205261		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.566575		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2047202		0.2	0	0	0.000429	0.002	0	102%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.205261		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					
14868865	CCV_1116HP55	HC-8015-DRO-	CCV		11/17/2021 9:20:	1	R370473		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		4.73586084		5	0	0	0.0879	0.3	0	95%	80	120	0%	
n-Triacontane	S	mg/L		0.1905758		0.2	0	0	0.000336	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					
14868866	CCV_1116HP55	HC-8015-DRO-	CCV		11/17/2021 10:0	1	R370473		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		14.75515		15	0	0	0.0389	0.3	0	98%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.26307		15	0	0	0.0749	0.3	50	102%	80	120	0%	
o-Terphenyl	S	mg/L		0.2005834		0.2	0	0	0.000429	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					
14868867	LCS-161348-RR	HC-8015-DRO-	LCS-DOD		11/17/2021 11:2	1	161348	11/15/2021	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		4.80285263		5	0	0	0.0879	0.3	0	96%	41	113	0%	
n-Triacontane	S	mg/L		0.0881		0.1	0	0	0.000336	0.002	0	88%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14868868	LCSD-161348-R	HC-8015-DRO-	LCSD-DOD		11/18/2021 12:5	1	161348	11/15/2021	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		4.55225039		5	0	4.8028526	0.0879	0.3	0	91%	41	113	5%	
n-Triacontane	S	mg/L		0.0905		0.1	0	0	0.000336	0.002	0	90%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14868869	MARKER_1116	HC-8015-DRO-	SAMP		11/18/2021 1:38:	1	R370473		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		2.277655		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.685317		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2116381		0.2	0	0	0.000429	0.002	0	106%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.277655		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					
14868870	CCV_1116HP55	HC-8015-DRO-	CCV		11/18/2021 2:21:	1	R370473		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		4.65725342		5	0	0	0.0879	0.3	0	93%	80	120	0%	
n-Triacontane	S	mg/L		0.1903058		0.2	0	0	0.000336	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					
14877592	B21111298-008	HC-8015-DRO-	SAMP		11/16/2021 6:25:	1	161348	11/15/2021	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		0.04522172		0	0	0	0.0370328	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.12218326		0	0	0	0.0836808	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.2249416		0	0	0	0.0713048	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.0831		0.0952	0	0	0.0003199	0.001904	0	87%	50	150	0%	
o-Terphenyl	S	mg/L		0.1650966		0.1904	0	0	0.0004084	0.002	0	87%	56	125	0%	

Energy Laboratories Inc

ANALYTICAL RUN Summary

14-Dec-21

Run ID GCFID-HP5-B_211118A

Run Start Date: 11/18/2021
Analyst: Ann Nebel
Ical:
Column ID:
Comments: DRO-8015-ICAL information is in Index GCFID-HP5-B_211102A 8015C OIL range calibration GCFID-HP5-B_210218B

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO211103B	ALASKA MARKER-200ug/mL					MARKER	5/31/2022
DRO211108A	5,000 ug/mL RRO CCV 200 ug/mL Triacotane					CCV-OIL	4/6/2026
DRO211110A	Carbon Scan STD-Marker					MARKER-C	3/5/2028
DRO211110B	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					
14873154	MARKER_1118	HC-8015-DRO-	SAMP		11/18/2021 12:0	1	R370554		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		2.280709		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.701985		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2118589		0.2	0	0	0.000429	0.002	0	106%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.280709		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					
14873155	CCV_1118HP50	HC-8015-DRO-	CCV		11/18/2021 12:4	1	R370554		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		4.6275835		5	0	0	0.0879	0.3	0	93%	80	120	0%	
n-Triacotane	S	mg/L		0.1958577		0.2	0	0	0.000336	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					
14873156	CCV_1118HP50	HC-8015-DRO-	CCV		11/18/2021 1:30:	1	R370554		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		15.22614		15	0	0	0.0389	0.3	0	102%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.75239		15	0	0	0.0749	0.3	50	105%	80	120	0%	
o-Terphenyl	S	mg/L		0.2069268		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					
14873157	LCS-161348	HC-8015-DRO-	LCS-DOD		11/18/2021 2:55:	1	161348	11/15/2021	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		11.60909		15	0	0	0.0389	0.3	0	77%	36	132	0%	
Total Extractable Hydrocarbons (SGT	A	mg/L		12.32973		15	0	0	0.0329	0.3	0	82%	60	132	0%	
o-Terphenyl (SGT)	S	mg/L		0.1788132		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					
14873158	LCSD-161348	HC-8015-DRO-	LCSD-DOD		11/18/2021 3:38:	1	161348	11/15/2021	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		11.9434		15	0	11.60909	0.0389	0.3	0	80%	36	132	3%	
Total Extractable Hydrocarbons (SGT	A	mg/L		12.69283		15	0	12.32973	0.0329	0.3	0	85%	60	132	3%	
o-Terphenyl (SGT)	S	mg/L		0.1846786		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					
14873159	MB-161348	HC-8015-DRO-	MBLK		11/18/2021 4:21:	1	161348	11/15/2021	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%	
n-Triacontane (SGT)	S	mg/L		0.0805		0.1	0	0	0.000336	0.002	0	80%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1709241		0.2	0	0	0.000429	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					
14873160	B21111298-005	HC-8015-DRO-	SAMP		11/18/2021 5:04:	1	161348	11/15/2021	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					
14873160	B21111298-005	HC-8015-DRO-	SAMP		11/18/2021 5:04:	1	161348	11/15/2021	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
n-Triacontane (SGT)	S	mg/L		0.0691		0.0952	0	0	0.0003199	0.001904	0	73%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1482212		0.1904	0	0	0.0004084	0.001904	0	78%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14873161	B21111298-004	HC-8015-DRO-	SAMP		11/18/2021 5:47:	1	161348	11/15/2021	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%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0879	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.0329	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.0836		0.1	0	0	0.000336	0.002	0	84%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1707588		0.2	0	0	0.000429	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					
14873162	B21111298-003	HC-8015-DRO-	SAMP		11/18/2021 6:30:	1	161348	11/15/2021	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	0.0374218	0.3	0	0%	0	0	0%	U
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		0.04016764		0	0	0	0.0316498	0.3	0	0%	0	0	0%	J
n-Triacontane (SGT)	S	mg/L		0.0775		0.0962	0	0	0.0003232	0.001924	0	81%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1442788		0.1924	0	0	0.0004127	0.001924	0	75%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14873163	MARKER_1118	HC-8015-DRO-	SAMP		11/18/2021 7:56:	1	R370554		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		2.338233		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.788238		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2171015		0.2	0	0	0.000429	0.002	0	109%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.338233		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					
14873164	CCV_1118HP51	HC-8015-DRO-	CCV		11/18/2021 8:39:	1	R370554		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		4.60636133		5	0	0	0.0879	0.3	0	92%	80	120	0%	
n-Triacontane	S	mg/L		0.1959061		0.2	0	0	0.000336	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					
14873165	CCV_1118HP51	HC-8015-DRO-	CCV		11/18/2021 9:22:	1	R370554		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		15.12018		15	0	0	0.0389	0.3	0	101%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.68236		15	0	0	0.0749	0.3	50	105%	80	120	0%	
o-Terphenyl	S	mg/L		0.2052945		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					
14873166	B21111298-001	HC-8015-DRO-	SAMP		11/18/2021 10:4	1	161348	11/15/2021	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		0.1138515		0	0	0	0.043179	0.333	0	0%	0	0	0%	J
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.097569	0.333	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0.122803		0	0	0	0.036519	0.333	0	0%	0	0	0%	J
n-Triacontane (SGT)	S	mg/L		0.0813		0.111	0	0	0.000373	0.00222	0	73%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1694612		0.222	0	0	0.0004762	0.00222	0	76%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14873167	B21111298-001	HC-8015-DRO-	MS-DOD		11/18/2021 11:3	1	161348	11/15/2021	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		12.56766		16.65	0.1138515	0	0.043179	0.333	0	75%	36	132	0%	
Total Extractable Hydrocarbons (SGT	A	mg/L		13.3793		16.65	0.122803	0	0.036519	0.333	0	80%	60	132	0%	
o-Terphenyl (SGT)	S	mg/L		0.189699		0.222	0	0	0.0004762	0.00222	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					
14873168	B21111298-002	HC-8015-DRO-	SAMP		11/19/2021 12:5	1	161348	11/15/2021	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					
14873168	B21111298-002	HC-8015-DRO-	SAMP		11/19/2021 12:5	1	161348	11/15/2021	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		0.6700296		0	0	0	0.0374218	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0.12917419		0	0	0	0.0845598	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons (SGT	A	mg/L		0.8512943		0	0	0	0.0316498	0.3	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.082		0.0962	0	0	0.0003232	0.001924	0	85%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1128153		0.1924	0	0	0.0004127	0.001924	0	59%	56	125	0%	
TEH (SGT-Oil Range)	X	mg/L		0.15688893		0	0	0	0.0845598	0.2886	0	0%	0	0	0%	J
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14873169	B21111298-002	HC-8015-DRO-	MS-DOD		11/19/2021 1:40:	1	161348	11/15/2021	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		3.50948191		4.81	0.1568889	0	0.0845598	0.3	0	70%	41	113	0%	
n-Triacontane (SGT)	S	mg/L		0.0652		0.0962	0	0	0.0003232	0.002	0	68%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14873170	LCS-161348-RR	HC-8015-DRO-	LCS-DOD		11/19/2021 3:06:	1	161348	11/15/2021	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		4.03304911		5	0	0	0.0879	0.3	0	81%	41	113	0%	
n-Triacontane (SGT)	S	mg/L		0.0711		0.1	0	0	0.000336	0.002	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					
14873171	LCSD-161348-R	HC-8015-DRO-	LCSD-DOD		11/19/2021 4:31:	1	161348	11/15/2021	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		4.57817936		5	0	4.0330491	0.0879	0.3	0	92%	41	113	13%	
n-Triacontane (SGT)	S	mg/L		0.0841		0.1	0	0	0.000336	0.002	0	84%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14873172	MARKER_1118	HC-8015-DRO-	SAMP		11/19/2021 5:57:	1	R370554		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					
14873172	MARKER_1118	HC-8015-DRO-	SAMP		11/19/2021 5:57:	1	R370554		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		2.348697		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.807844		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2177036		0.2	0	0	0.000429	0.002	0	109%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.348697		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					
14873173	CCV_1118HP53	HC-8015-DRO-	CCV		11/19/2021 6:40:	1	R370554		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		4.62637402		5	0	0	0.0879	0.3	0	93%	80	120	0%	
n-Triacontane	S	mg/L		0.1949223		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					
14873174	CCV_1118HP53	HC-8015-DRO-	CCV		11/19/2021 7:23:	1	R370554		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		15.568436		15	0	0	0.0389	0.3	0	104%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		16.26435		15	0	0	0.0749	0.3	50	108%	80	120	0%	
o-Terphenyl	S	mg/L		0.2129847		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					
14877689	MARKER_1118	HC-8015-DRO-	SAMP		11/19/2021 6:02:	1	R370554		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		2.328704		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.76765		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2167658		0.2	0	0	0.000429	0.002	0	108%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.328704		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					
14877690	CCV_1118HP53	HC-8015-DRO-	CCV		11/19/2021 6:45:	1	R370554		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

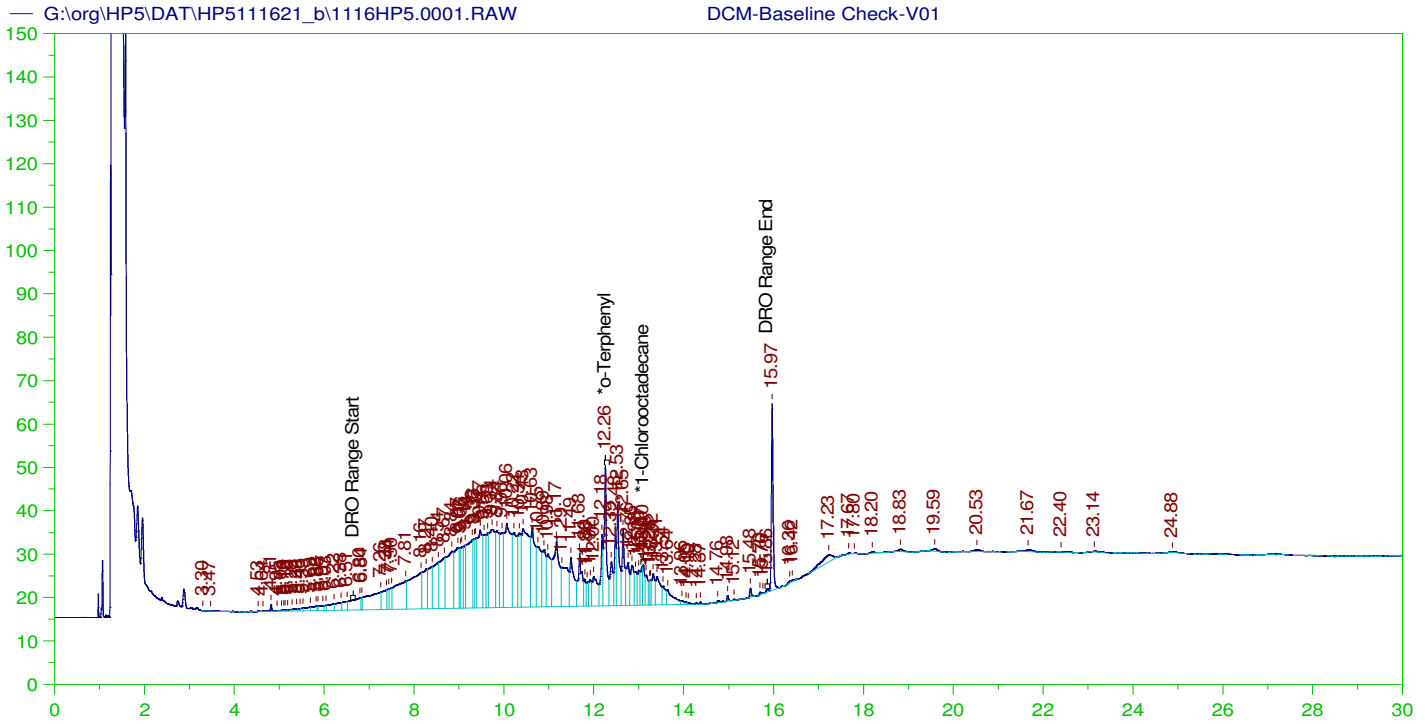
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14877690	CCV_1118HP53	HC-8015-DRO-	CCV		11/19/2021 6:45:	1	R370554		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		4.56081592		5	0	0	0.0879	0.3	0	91%	80	120	0%	
n-Triacontane	S	mg/L		0.1942499		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					
14877691	CCV_1118HP53	HC-8015-DRO-	CCV		11/19/2021 7:28:	1	R370554		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		15.57624		15	0	0	0.0389	0.3	0	104%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		16.15574		15	0	0	0.0749	0.3	50	108%	80	120	0%	
o-Terphenyl	S	mg/L		0.211761		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					
14877692	B21111298-008	HC-8015-DRO-	SAMP		11/19/2021 8:55:	1	161348	11/15/2021	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
n-Triacontane (SGT)	S	mg/L		0.0733		0.0952	0	0	0.0003199	0.001904	0	77%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1474946		0.1904	0	0	0.0004084	0.001904	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					
14877693	MARKER_1118	HC-8015-DRO-	SAMP		11/19/2021 10:2	1	R370554		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		2.363243		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.825606		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2197431		0.2	0	0	0.000429	0.002	0	110%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.363243		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					
14877694	CCV_1118HP54	HC-8015-DRO-	CCV		11/19/2021 11:0	1	R370554		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					
14877694	CCV_1118HP54	HC-8015-DRO-	CCV		11/19/2021 11:0	1	R370554		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		4.55321533		5	0	0	0.0879	0.3	0	91%	80	120	0%	
n-Triacontane	S	mg/L		0.193177		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					
14877695	CCV_1118HP54	HC-8015-DRO-	CCV		11/19/2021 11:4	1	R370554		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		15.7678		15	0	0	0.0389	0.3	0	105%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		16.31317		15	0	0	0.0749	0.3	50	109%	80	120	0%	
o-Terphenyl	S	mg/L		0.2137756		0.2	0	0	0.000429	0.002	0	107%	80	120	0%	

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
	G:\org\HP5\DAT\HP5111621_b\1116HP5.01f	DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.02f	DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.03f	MARKER_1116HP503r, DRO ;1116HP5 , DRO211110A	G:\org\HP5\Methods\CS211116.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.04f	MARKER_1116HP504r, DRO ;1116HP5 , DRO211103B	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.05f	CCV_1116HP505r, RRO ;1116HP5 , DRO211108A	G:\Org\HP5\Methods\DC_ORO-AE-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.06f	CCV_1116HP506r, DRO 8015;1116HP5 , DRO211110B	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.07f	DCM-Baseline Check-V07	G:\Org\HP5\Methods\DS_8015-24-IC-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.08f	LCS-161348 ;1116HP5 ,	G:\Org\HP5\Methods\D3_8015-111608-24-IC-L%.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.09f	LCS2-161348 ;1116HP5 ,	G:\Org\HP5\Methods\DS_8015-24-IC-L%.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.10f	MB-161348 ;1116HP5 ,	G:\Org\HP5\Methods\DR_8015-C24T-IC-L%.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.11f	B21111298-007A ;1116HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_OROS-AE-L%.MET	1010	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.12f	B21111298-006A ;1116HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1040	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.13f	B21111298-005A ;1116HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IC-L%.met	1040	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.14f	B21111298-008A ;1116HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_OROS-AE-L%.MET	1050	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.15f	DCM-Baseline Check-V15	G:\Org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1050	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.16f	B21111298-004A ;1116HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.17f	B21111298-003A ;1116HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met	1040	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.18f	B21111298-001B ;1116HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_OROS-AE-L%.MET	1050	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.19f	MARKER_1116HP519r, DRO ;1116HP5 , DRO211110A	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1050	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.20f	MARKER_1116HP520r, DRO ;1116HP5 , DRO211103B	G:\org\HP5\Methods\CS211116.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.21f	CCV_1116HP521r, RRO ;1116HP5 , DRO211108A	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.22f	CCV_1116HP522r, DRO 8015;1116HP5 , DRO211110B	G:\Org\HP5\Methods\DC_ORO-AE-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.35f	MARKER_1116HP535r, DRO ;1116HP5 , DRO211110A	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.36f	MARKER_1116HP536r, DRO ;1116HP5 , DRO211103B	G:\org\HP5\Methods\CS211116.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.37f	CCV_1116HP537r, DRO 8015;1116HP5 , DRO211110B	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.38f	CCV_1116HP538r, RRO ;1116HP5 , DRO211108A	G:\Org\HP5\Methods\DC_ORO-AE-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.39f	DCM-Baseline Check-V39	G:\Org\HP5\Methods\DS_ORO-AE-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.40f	DCM-Baseline Check-V40	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.41f	B21111290-001B ;1116HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_OROS-AE-L%.MET	1050	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.42f	B21111298-005A ;1116HP5 , \$HC-8015-DRO-W, RR	G:\Org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1050	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.44f	B21111298-001A ;1116HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-111642-IC-L%.met	900	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.45f	B21111298-001AMS ;1116HP5 ,	G:\Org\HP5\Methods\DR_OROS-AE-L%.MET	900	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.46f	DCM-Baseline Check-V46	G:\Org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.47f	B21111298-002A ;1116HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1040	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.48f	B21111298-002AMS-RRO ;1116HP5 ,	G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met	1040	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.49f	MARKER_1116HP549r, DRO ;1116HP5 , DRO211110A	G:\Org\HP5\Methods\DS_ORO-AE-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.50f	MARKER_1116HP550r, DRO ;1116HP5 , DRO211103B	G:\Org\HP5\Methods\DC_ORO-AE-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.51f	CCV_1116HP551r, RRO ;1116HP5 , DRO211108A	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.52f	CCV_1116HP552r, DRO 8015;1116HP5 , DRO211110B	G:\Org\HP5\Methods\DC_ORO-AE-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.53f	DCM-Baseline Check-V53	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.54f	LCS-161348-RRO ;1116HP5 ,	G:\Org\HP5\Methods\DR_OROS-AE-L%.MET	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.55f	DCM-Baseline Check-V55	G:\Org\HP5\Methods\DS_ORO-AE-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.56f	LCS2-161348-RRO ;1116HP5 ,	G:\Org\HP5\Methods\D3_ORO-AE-L%.MET	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.57f	MARKER_1116HP557r, DRO ;1116HP5 , DRO211103B	G:\Org\HP5\Methods\DS_ORO-AE-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111621_b\1116HP5.58f	CCV_1116HP558r, RRO ;1116HP5 , DRO211108A	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	0

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
	G:\org\HP5\DAT\HP5111821_b\1118HP5.01f	DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-C24T-ID-L0.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.02f	DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-C24T-ID-L0.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.03f	DCM-Baseline Check-V03	G:\Org\HP5\Methods\DR_8015-C24T-ID-L0.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.04f	MARKER_1118HP504r_C40 ;1118HP5 , DRO211110A	G:\org\HP5\Methods\CS211118.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.05f	MARKER_1118HP505r_DRO ;1118HP5 , DRO211103B	G:\Org\HP5\Methods\DC_8015-24-ID-L%.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.06f	CCV_1118HP506r_RRO ;1118HP5 , DRO211108A	G:\Org\HP5\Methods\DC_ORO-AF-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.07f	CCV_1118HP507r_DRO 8015;1118HP5 , DRO211110B	G:\Org\HP5\Methods\DC_8015-24-ID-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.08f	DCM-Baseline Check-V08	G:\Org\HP5\Methods\DS_8015-24-ID-L#.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.09f	LCS-161348 ;1118HP5 , SGT	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.10f	LCS-161348 ;1118HP5 , SGT	G:\Org\HP5\Methods\DS_8015-24-ID-L#.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.11f	MB-161348 ;1118HP5 , SGT	G:\Org\HP5\Methods\DR_8015-24-ID-L%.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.12f	B21111298-005A ;1118HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met	1050	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.13f	B21111298-004A ;1118HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_OROS-AF-L%.MET	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.14f	B21111298-003A ;1118HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DS_8015-C24T-ID-L#.MET	1040	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.15f	MARKER_1118HP515r_C40 ;1118HP5 , DRO211110A	G:\org\HP5\Methods\CS211118.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.16f	MARKER_1118HP516r_DRO ;1118HP5 , DRO211103B	G:\Org\HP5\Methods\DC_8015-24-ID-L%.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.17f	CCV_1118HP517r_RRO ;1118HP5 , DRO211108A	G:\Org\HP5\Methods\DC_ORO-AF-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.18f	CCV_1118HP518r_DRO 8015;1118HP5 , DRO211110B	G:\Org\HP5\Methods\DC_8015-24-ID-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.19f	DCM-Baseline Check-V19	G:\Org\HP5\Methods\DS_8015-24-ID-L#.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.20f	B21111298-001A ;1118HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met	900	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.21f	B21111298-001AMS ;1118HP5 , SGT	G:\Org\HP5\Methods\DR_OROS-AF-L%.MET	900	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.22f	DCM-Baseline Check-V22	G:\Org\HP5\Methods\DS_8015-24-ID-L#.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.23f	B21111298-002A ;1118HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1040	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.24f	B21111298-002AMS-RRO ;1118HP5 , SGT	G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met	1040	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.25f	DCM-Baseline Check-V25	G:\Org\HP5\Methods\DS_ORO-AF-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.26f	LCS-161348-RRO ;1118HP5 , SGT	G:\Org\HP5\Methods\DR_8015-C24T-ID-L0.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.27f	DCM-Baseline Check-V27	G:\Org\HP5\Methods\DS_OROb-AF-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.28f	LCS-161348-RRO ;1118HP5 , SGT	G:\Org\HP5\Methods\DR_8015-24-ID-L%.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.29f	MARKER_1118HP529r_C40 ;1118HP5 , DRO211110A	G:\Org\HP5\Methods\DC_ORO-AF-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.30f	MARKER_1118HP530r_DRO ;1118HP5 , DRO211103B	G:\Org\HP5\Methods\DC_8015-24-ID-L%.met	1000	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.31f	CCV_1118HP531r_RRO ;1118HP5 , DRO211108A	G:\Org\HP5\Methods\DC_ORO-AF-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.32f	CCV_1118HP532r_DRO 8015;1118HP5 , DRO211110B	G:\Org\HP5\Methods\DC_8015-24-ID-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.33f	DCM-Baseline Check-V33	G:\Org\HP5\Methods\DS_8015-24-ID-L#.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.34f	DCM-Baseline Check-V34	G:\Org\HP5\Methods\DR_8015-C24T-ID-L0.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.35f	MARKER_1118HP535r_C40 ;1118HP5 , DRO211110A	G:\org\HP5\Methods\CS211118.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.36f	MARKER_1118HP536r_DRO ;1118HP5 , DRO211103B	G:\Org\HP5\Methods\DC_8015-24-ID-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.37f	CCV_1118HP537r_RRO ;1118HP5 , DRO211108A	G:\Org\HP5\Methods\DC_ORO-AF-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.38f	CCV_1118HP538r_DRO 8015;1118HP5 , DRO211110B	G:\Org\HP5\Methods\DC_OROb-AF-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.39f	DCM-Baseline Check-V39	G:\Org\HP5\Methods\DC_8015-24-ID-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.40f	B21111298-008A ;1118HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met	1050	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.41f	MARKER_1118HP541r_C40 ;1118HP5 , DRO211110A	G:\org\HP5\Methods\DR_OROS-AF-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.42f	MARKER_1118HP542r_DRO ;1118HP5 , DRO211103B	G:\Org\HP5\Methods\DS_8015-C24T-ID-L#.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.43f	CCV_1118HP543r_RRO ;1118HP5 , DRO211108A	G:\org\HP5\Methods\CS211118.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.44f	CCV_1118HP544r_DRO 8015;1118HP5 , DRO211110B	G:\Org\HP5\Methods\DC_ORO-AF-L%.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.44f	CCV_1118HP544r_DRO 8015;1118HP5 , DRO211110B	G:\Org\HP5\Methods\DC_8015-24-ID-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5111821_b\1118HP5.44f	CCV_1118HP544r_DRO 8015;1118HP5 , DRO211110B	G:\Org\HP5\Methods\DS_8015-24-ID-L#.met	1	1	1	1	0



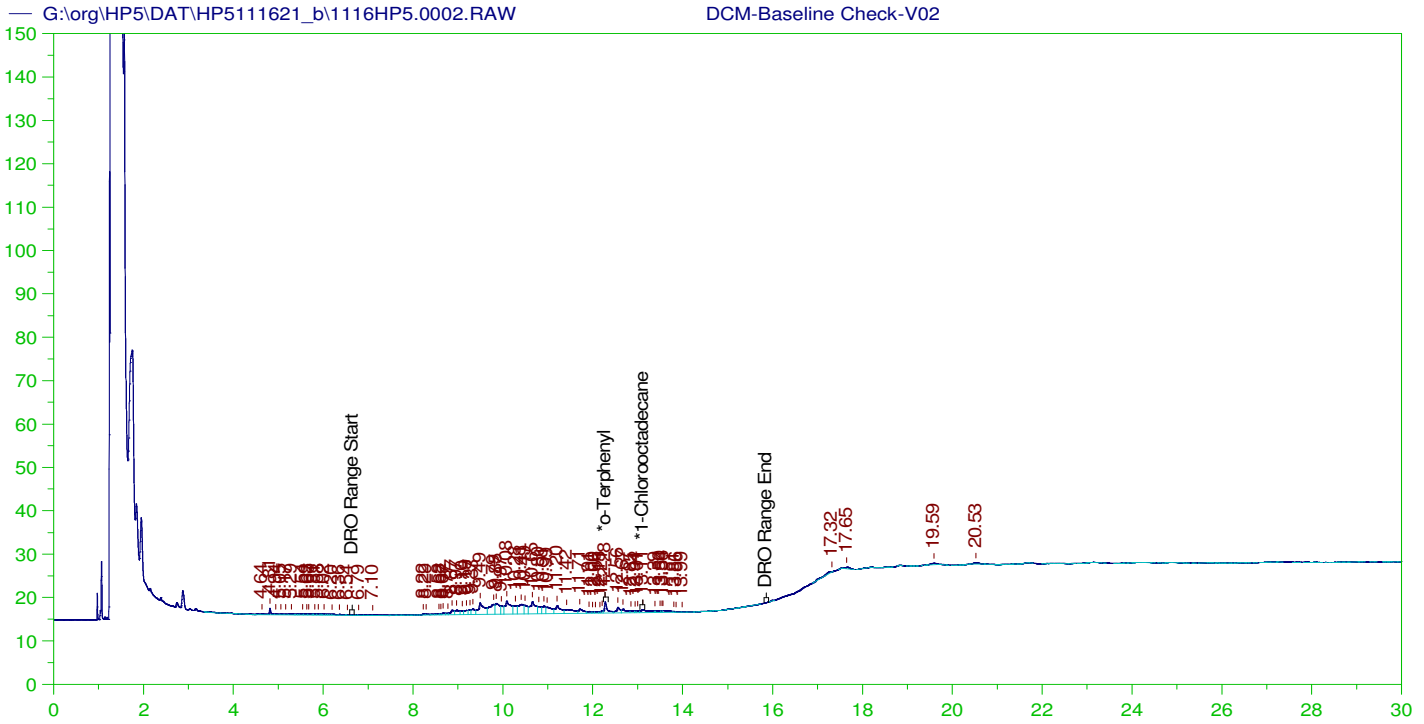
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V01
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0001.RAW
 Date & Time Acquired: 11/16/2021 8:11:06 AM
 Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.257	200.	3.54	1.77	-
*1-Chlorooctadecane	13.102	200.	.805	.4	-

DRO Area:4198667 DRO Amount: 133.9151
 TEH Area:4481853 TEH Amount: 142.9473



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

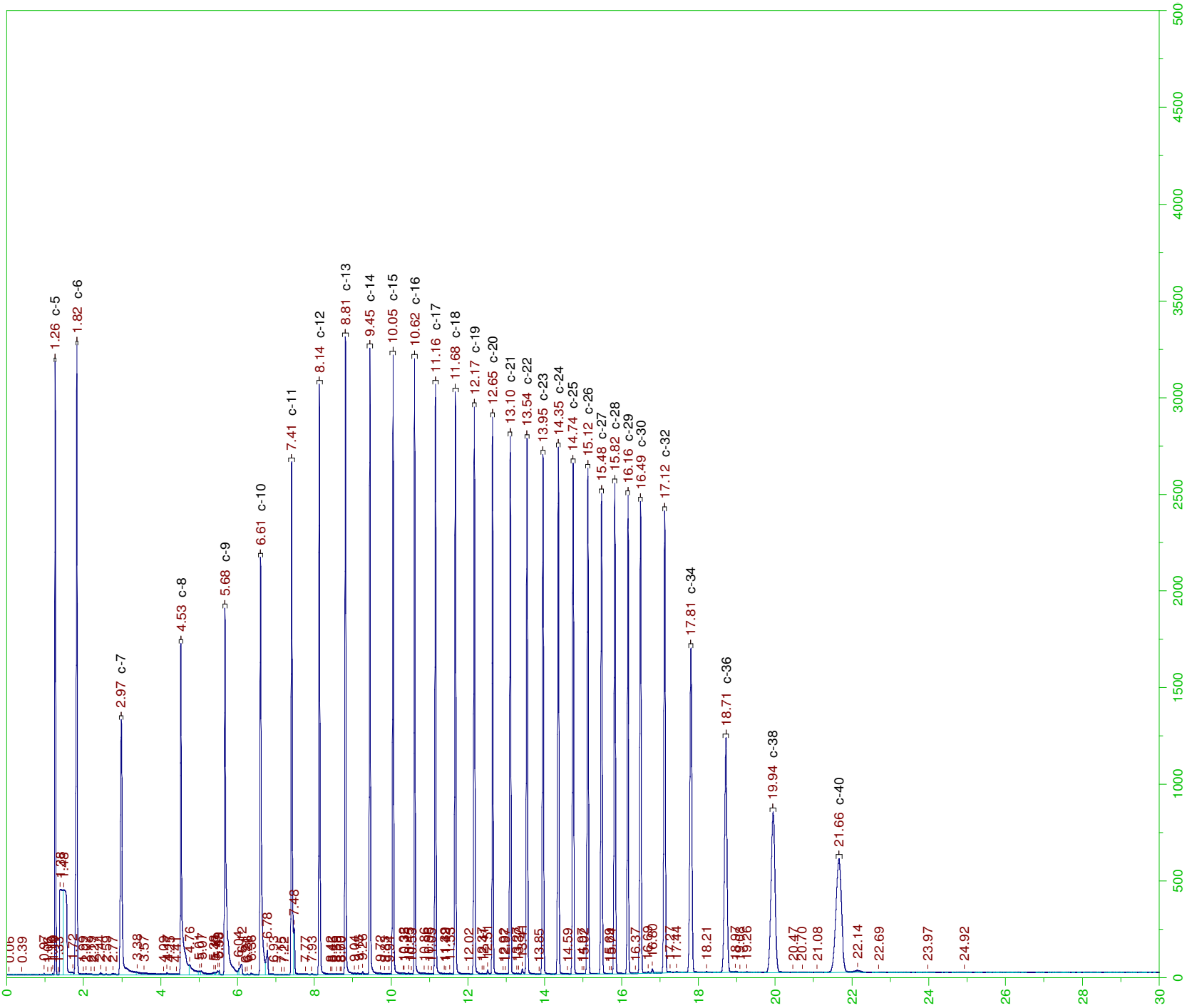
Sample Name: DCM-Baseline Check-V02
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0002.RAW
 Date & Time Acquired: 11/16/2021 9:53:12 AM
 Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

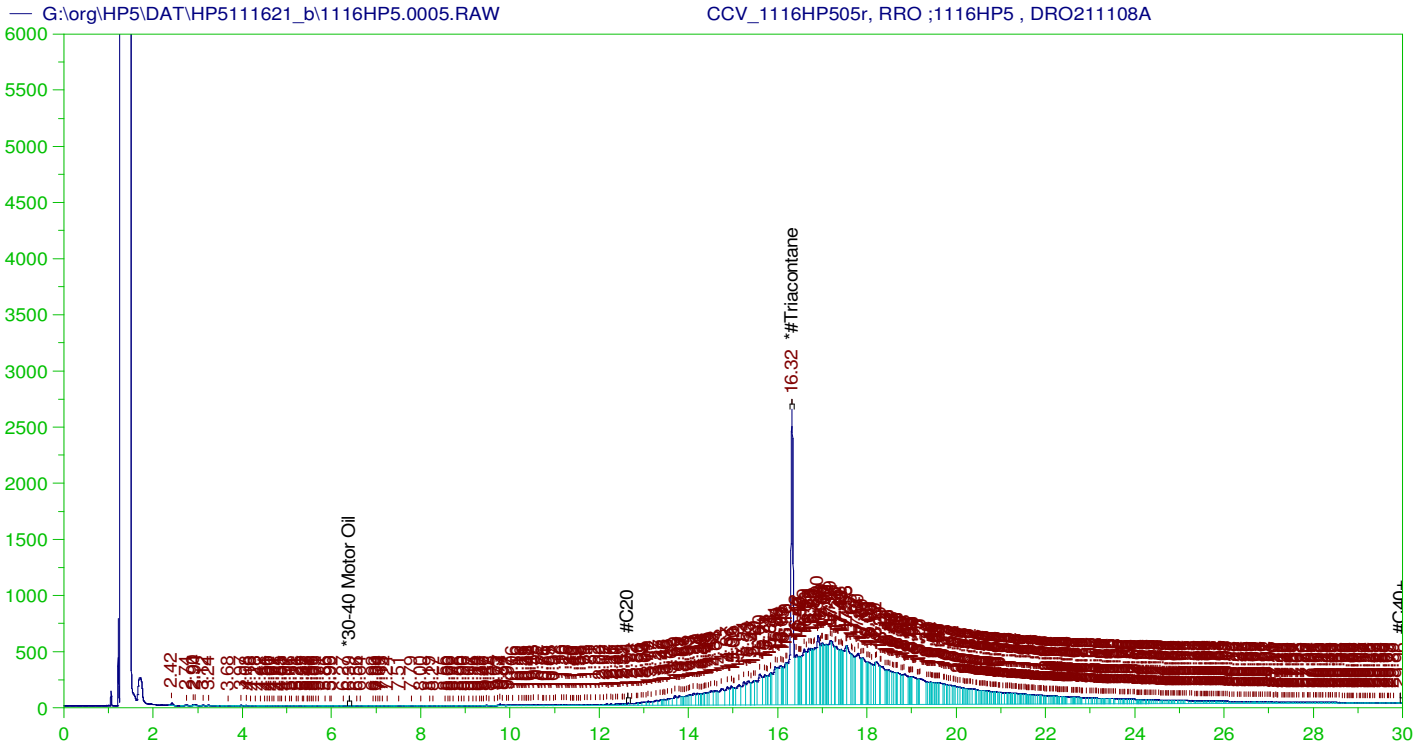
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.278	200.	.308	.15	-
*1-Chlorooctadecane	13.113	200.	.243	.12	-

DRO Area:310810.6 DRO Amount: 9.913205
 TEH Area:354691.6 TEH Amount: 11.31277





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1116HP505r, RRO ;1116HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0005.RAW
 Date & Time Acquired: 11/16/2021 12:01:31 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.318	500.	328.357	65.67	-

~~RRO~~ TEH(Oil Range) Area:1.316104E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4611.046

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0005.RAW

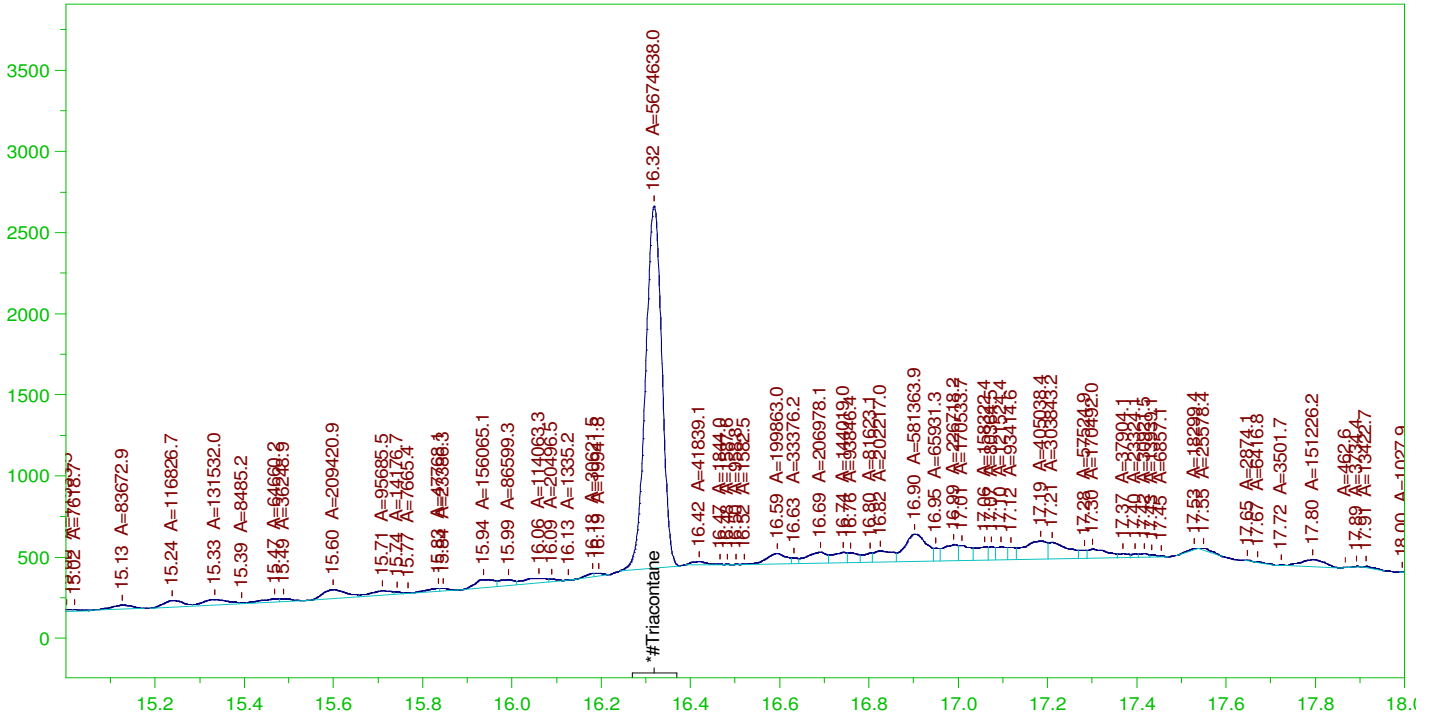
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.021	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.318	200.	328.357	164.18	75-125

AMN 11/22/2021

G:\org\HP5\DAT\HP5111621_b\1116HP5.0005.RAW

CCV_1116HP505r, RRO ;1116HP5 , DRO211108A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1116HP505r, RRO ;1116HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0005.RAW
 Date & Time Acquired: 11/16/2021 12:01:31 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.318	500.	196.15	39.23

RRO Area:6403309 RRO AMOUNT: 224.3437

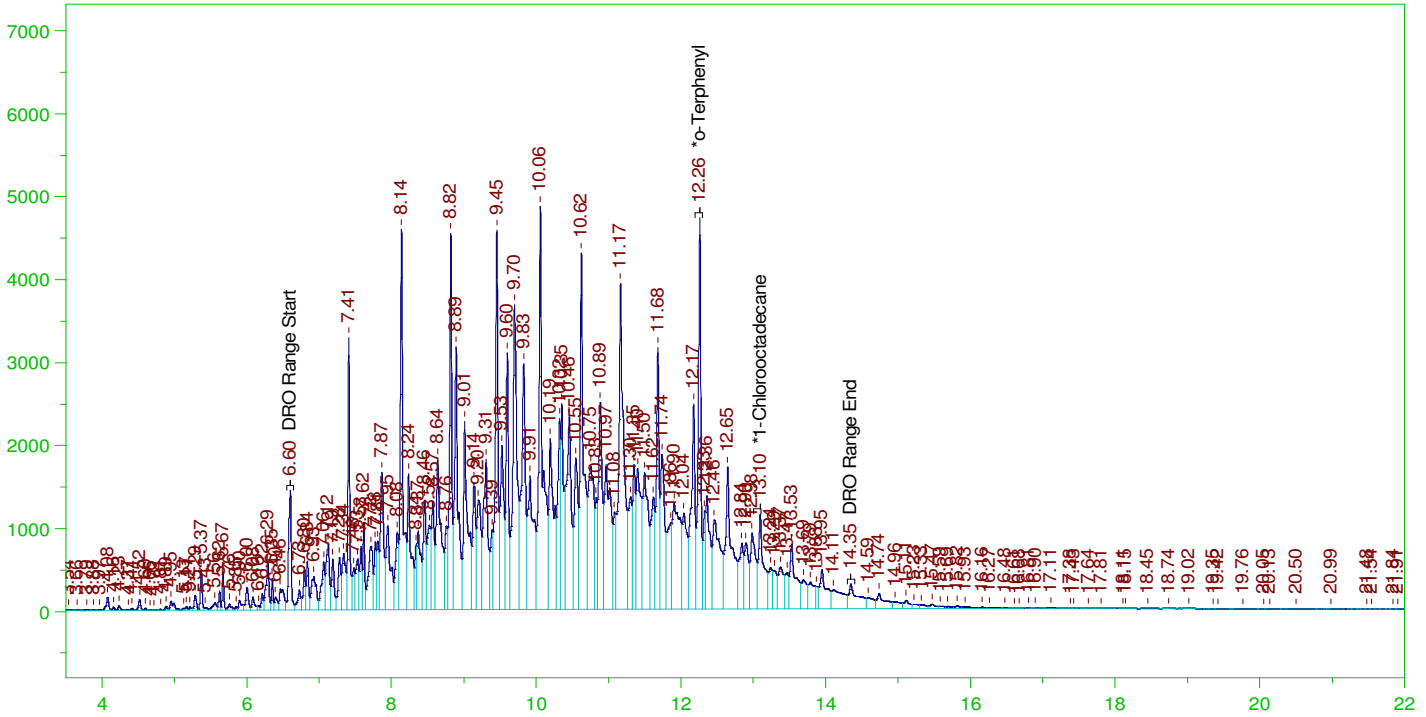
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0005.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.021	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.318	200.	196.15	98.07	75-125

G:\org\HP5\DAT\HP5111621_b\1116HP5.0006.RAW

CCV_1116HP506r, DRO 8015;1116HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1116HP506r, DRO 8015;1116HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0006.RAW
 Date & Time Acquired: 11/16/2021 12:44:03 PM
 Method File: G:\Org\HP5\Methods\DC_8015-24-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.259	200.	341.186	170.59
*1-Chlorooctadecane	13.096	200.	162.005	81.

DRO Area: 4.745523E+08 DRO Amount: 15135.69
 TEH Area: 4.912021E+08 TEH Amount: 15666.74

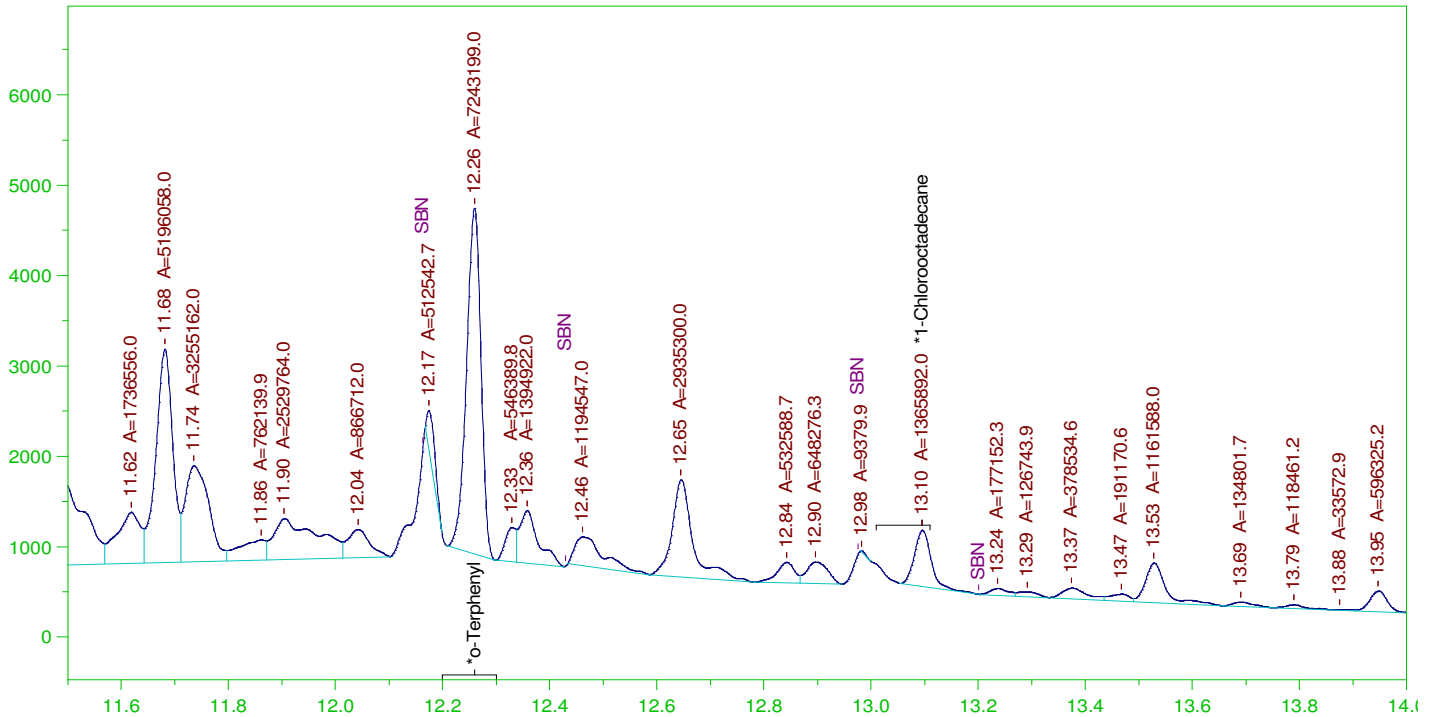
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0006.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15666.74	104.44	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.259	200.	341.186	170.59	85-115
*1-Chlorooctadecane	13.096	200.	162.005	81.	85-115

G:\org\HP5\DAT\HP5111621_b\1116HP5.0006.RAW

CCV_1116HP506r, DRO 8015;1116HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1116HP506r, DRO 8015;1116HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0006.RAW
 Date & Time Acquired: 11/16/2021 12:44:03 PM
 Method File: G:\Org\HP5\Methods\DS_8015-24-IC-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

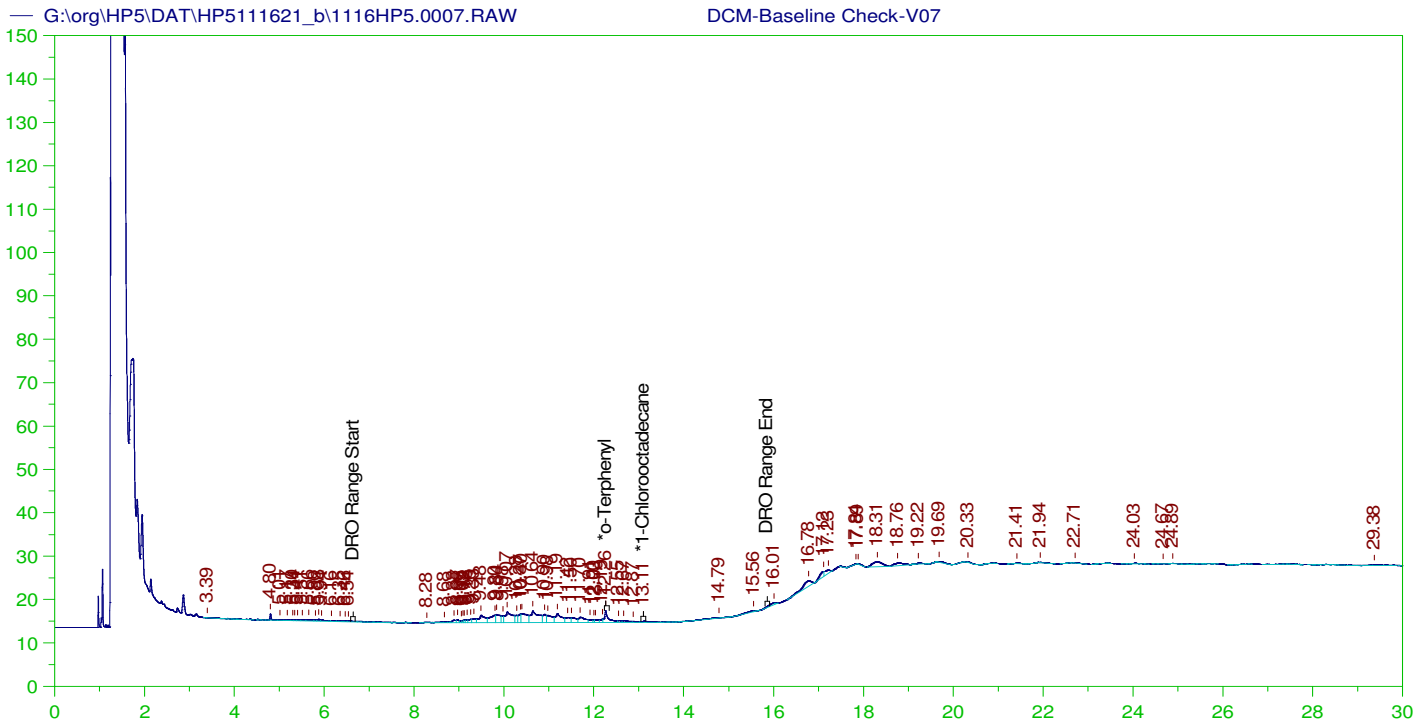
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.259	200.	203.981	101.99
*1-Chlorooctadecane	13.096	200.	38.466	19.23

DRO Area: 2.650862E+08 DRO Amount: 8454.84
 TEH Area: 2.758821E+08 TEH Amount: 8799.171

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0006.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8799.17	58.66	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.259	200.	203.981	101.99	85-115
*1-Chlorooctadecane	13.096	200.	38.466	19.23	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V07
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0007.RAW
 Date & Time Acquired: 11/16/2021 1:26:32 PM
 Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

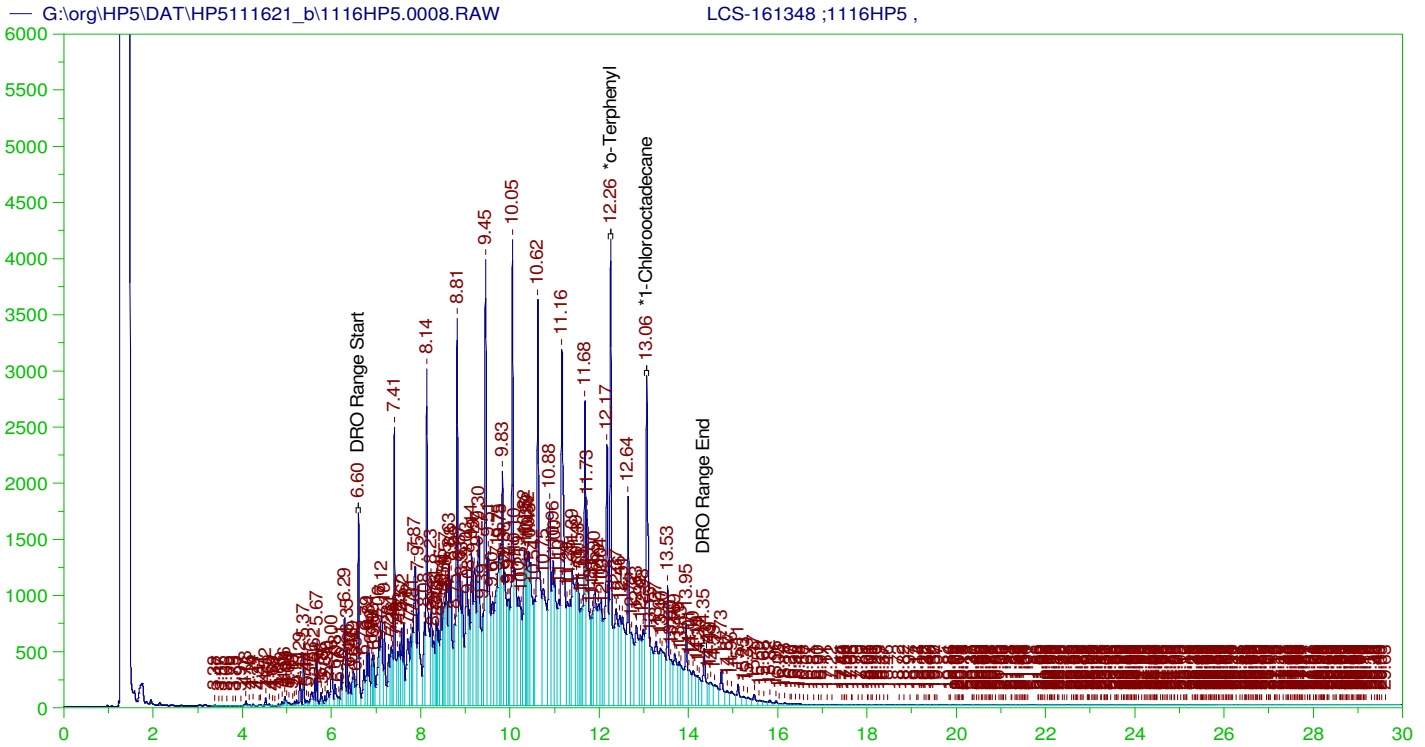
Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.264	200.	.463	.23	-
*1-Chlorooctadecane	13.11	200.	.074	.04	-

DRO Area:268852.6 DRO Amount: 8.574968
 TEH Area:381101.2 TEH Amount: 12.1551

Batch ID: 161348

LCS-161348 ;1116HP5 ,



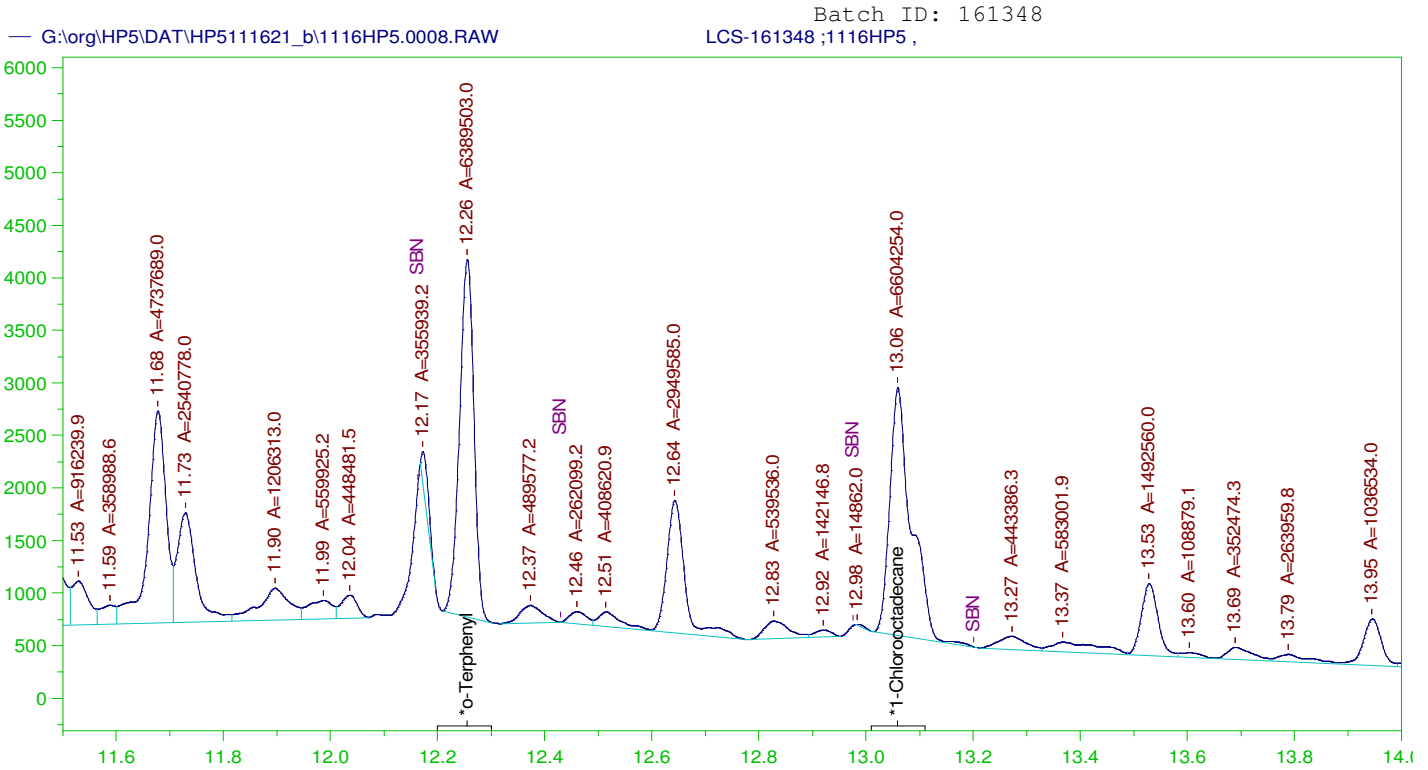
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-161348 ;1116HP5 ,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0008.RAW
Date & Time Acquired: 11/16/2021 2:09:01 PM
Method File: G:\Org\HP5\Methods\D3_8015-111608-24-IC-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.255	.2	.315	157.28	-
*1-Chlorooctadecane	13.059	.2	.315	157.48	-

DRO Area: 3.817623E+08 DRO Amount: 12.17619
TEH Area: 4.078419E+08 TEH Amount: 13.00799



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-161348 ;1116HP5 ,
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0008.RAW
 Date & Time Acquired: 11/16/2021 2:09:01 PM
 Method File: G:\Org\HP5\Methods\DS_8015-24-IC-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

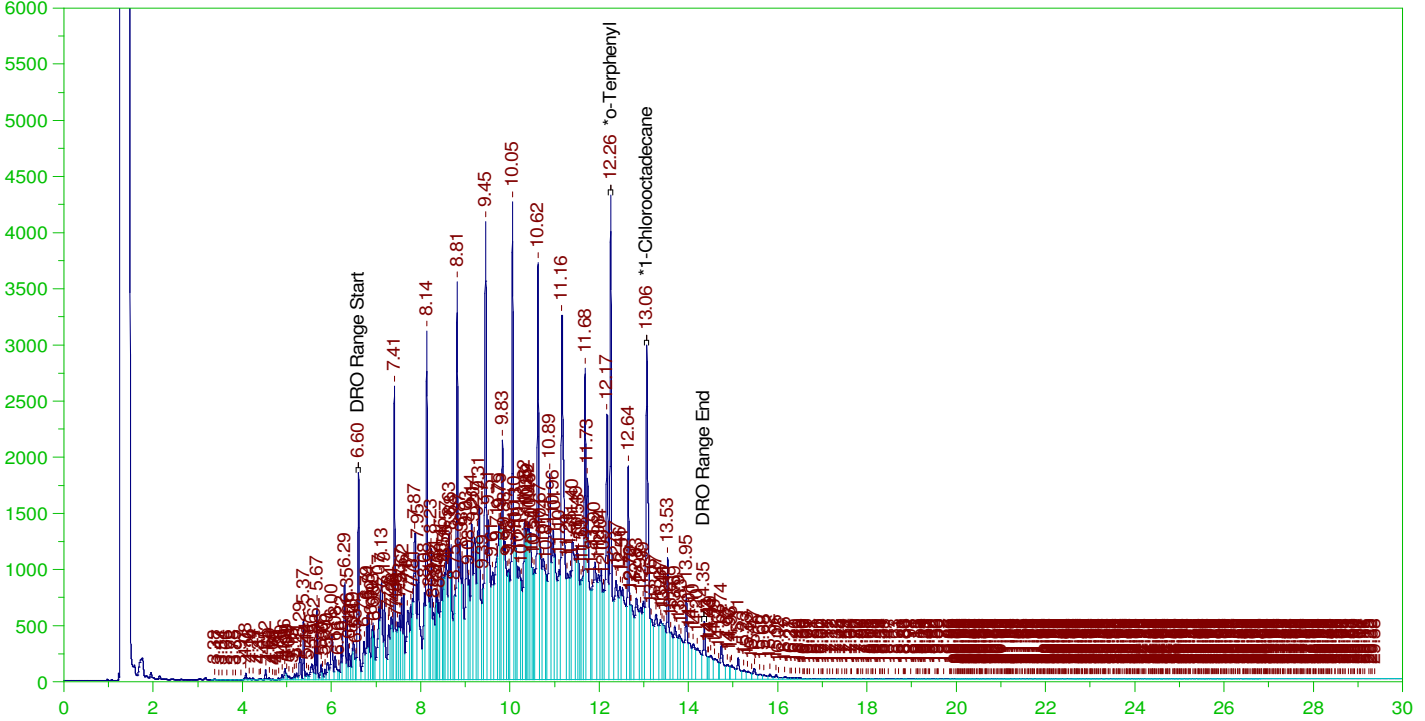
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.255	.2	.18	89.97 -
*1-Chlorooctadecane	13.059	.2	.186	92.99 -

DRO Area:1.885823E+08 DRO Amount: 6.014771
 TEH Area:2.013091E+08 TEH Amount: 6.420689

Batch ID: 161348

LCSD-161348 ;1116HP5 ,

G:\org\HP5\DAT\HP5111621_b\1116HP5.0009.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

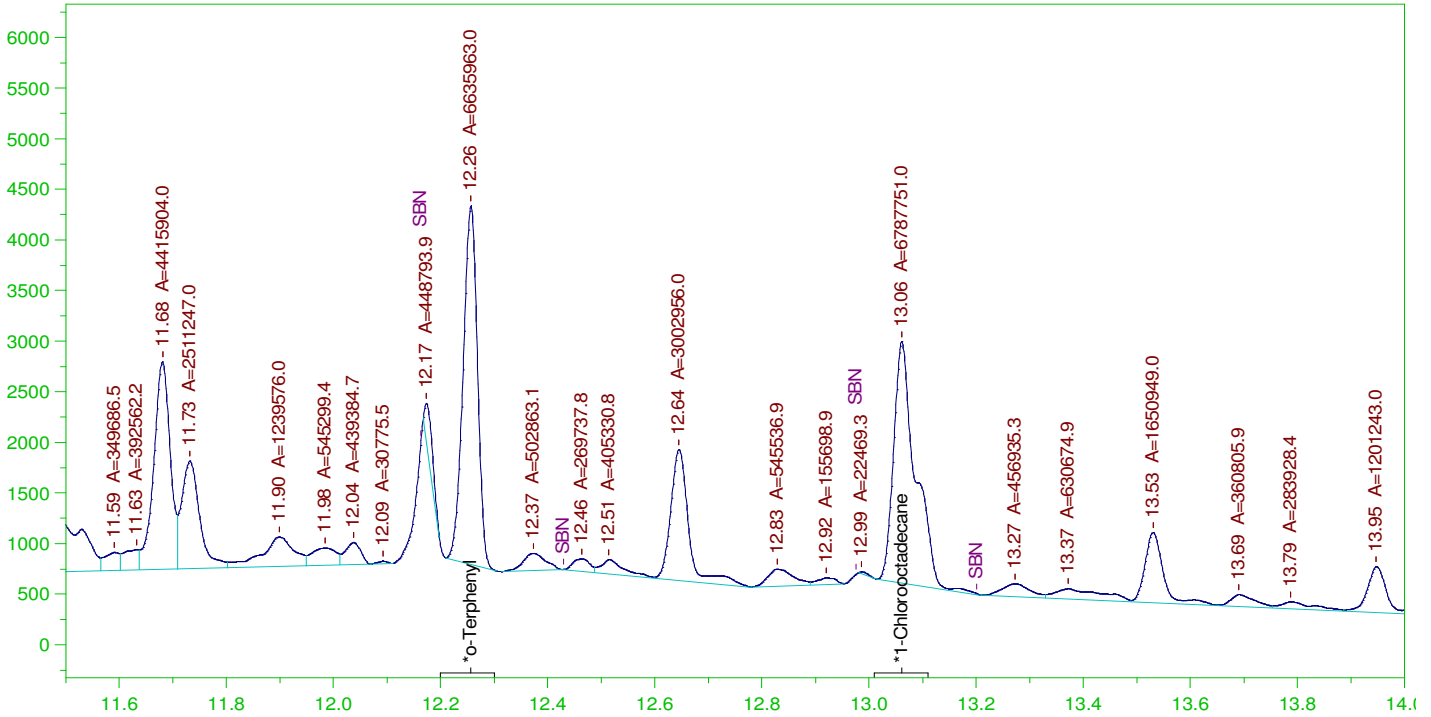
Sample Name: LCSD-161348 ;1116HP5 ,
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0009.RAW
 Date & Time Acquired: 11/16/2021 2:51:34 PM
 Method File: G:\Org\HP5\Methods\D3_8015-24-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.256	.2	.321	160.49 -
*1-Chlorooctadecane	13.061	.2	.321	160.49 -

DRO Area: 3.948461E+08 DRO Amount: 12.59349
 TEH Area: 4.226398E+08 TEH Amount: 13.47996

Batch ID: 161348
G:\org\HP5\DAT\HP5111621_b\1116HP5.0009.RAW LCSD-161348 ;1116HP5 ,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCSD-161348 ;1116HP5 ,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0009.RAW
Date & Time Acquired: 11/16/2021 2:51:34 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IC-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

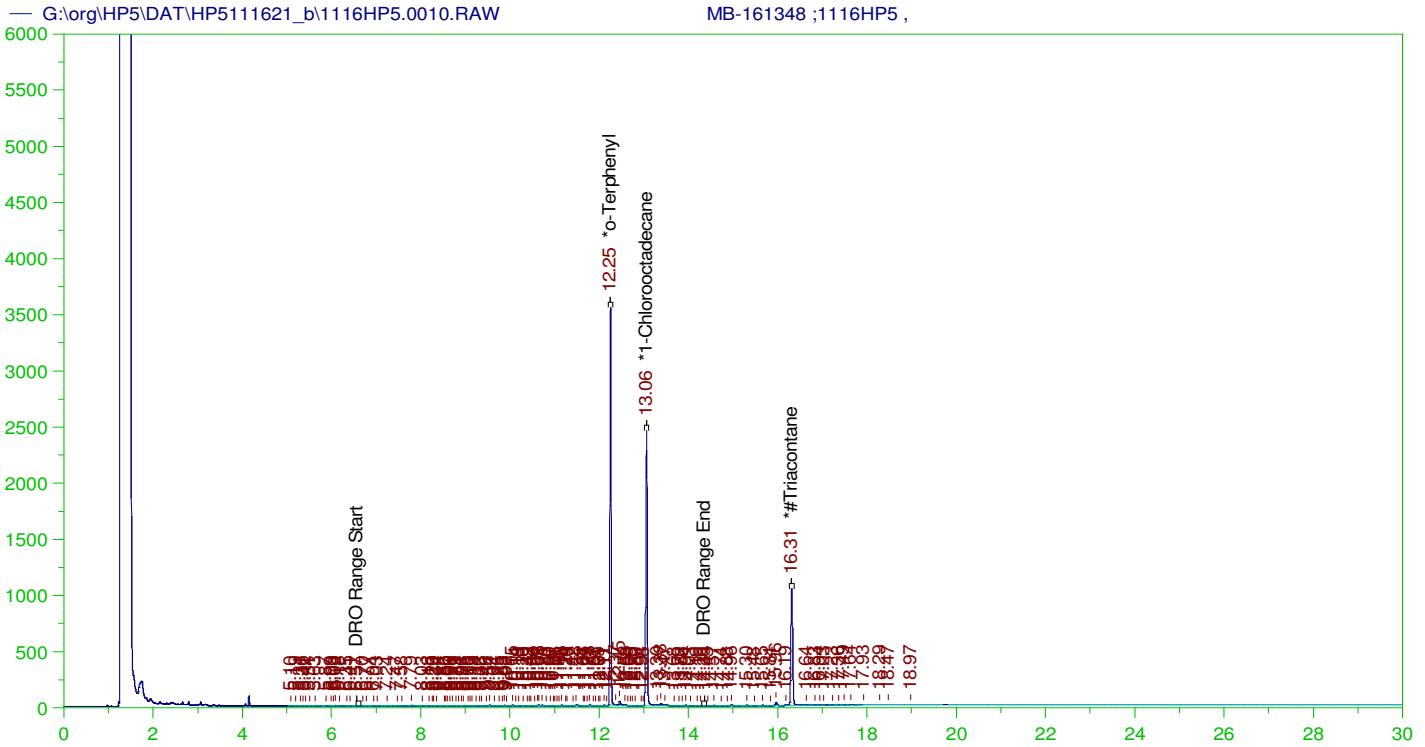
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.256	.2	.187	93.44
*1-Chlorooctadecane	13.061	.2	.191	95.58

DRO Area:1.944181E+08 DRO Amount: 6.200902
TEH Area:2.087462E+08 TEH Amount: 6.657892

Batch ID: 161348

MB-161348 ;1116HP5 ,



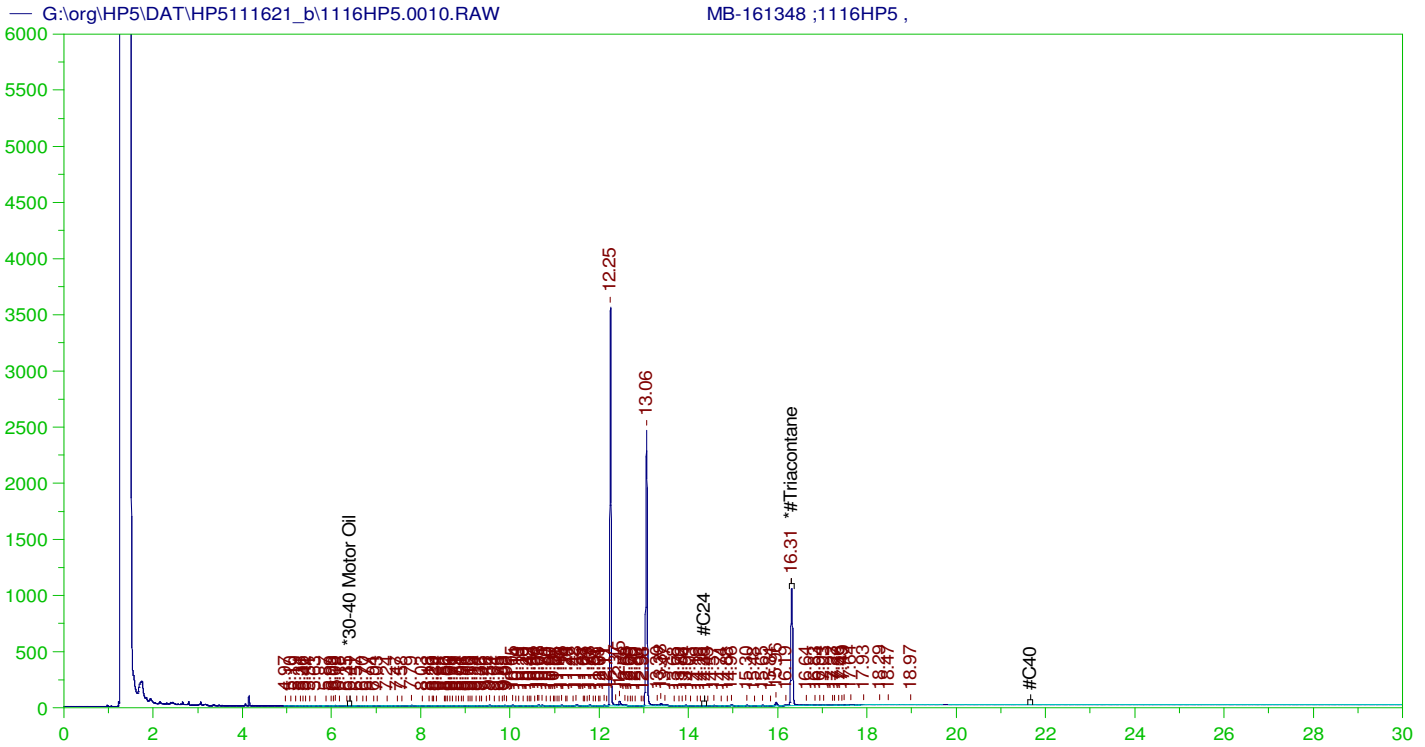
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-161348 ;1116HP5 ,
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0010.RAW
 Date & Time Acquired: 11/16/2021 3:34:12 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.252	.2	.191	95.25	-
*1-Chlorooctadecane	13.057	.2	.151	75.48	-
*#Triacontane	16.312	.2	.096	47.82	-

DRO Area: 954142.9 DRO Amount: 3.043208E-02
 TEH Area: 1235365 TEH Amount: 3.940158E-02



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: MB-161348 ;1116HP5 ,
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0010.RAW
 Date & Time Acquired: 11/16/2021 3:34:12 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE-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: 14.3 to 21.71

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.312	.5	.096	19.13

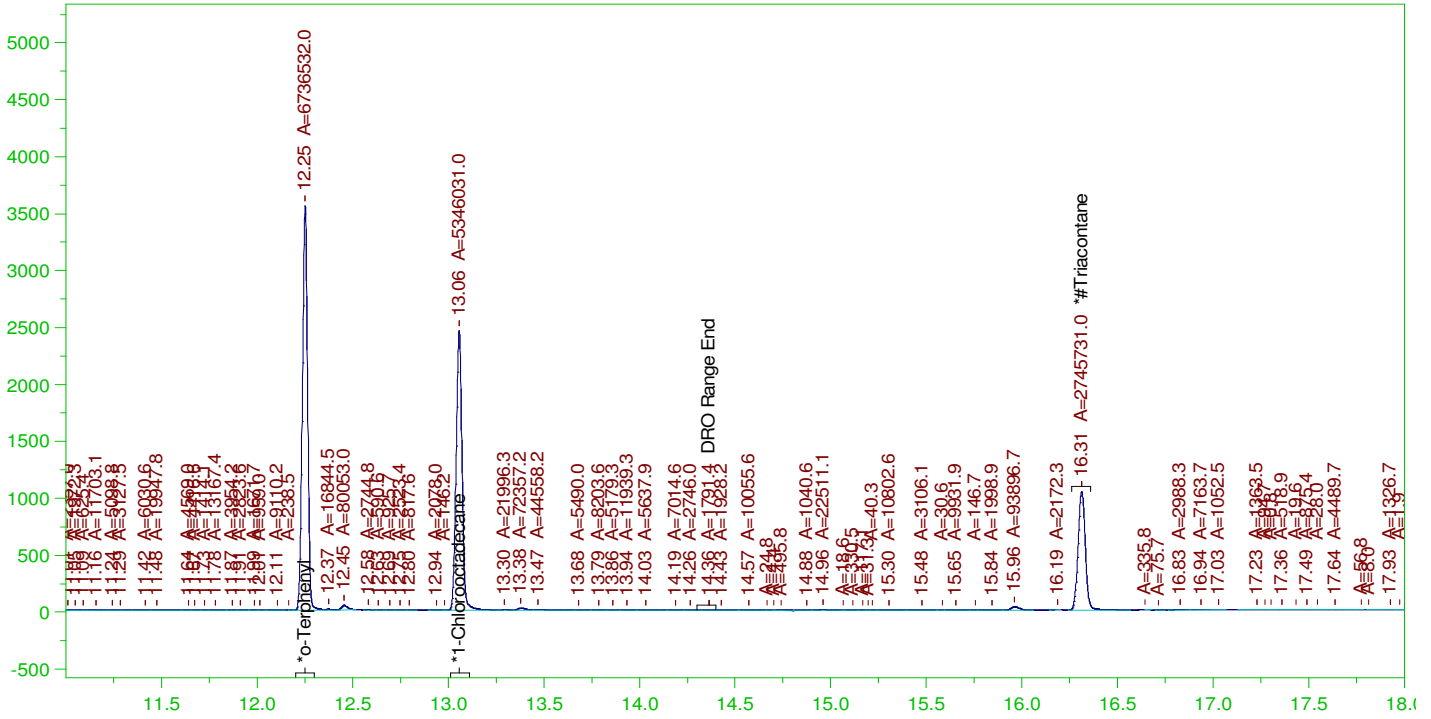
RRO Area:234681.4 RRO AMOUNT: 0.0082222



Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0010.RAW

MB-161348 ;1116HP5 ,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-161348 ;1116HP5 ,
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0010.RAW
 Date & Time Acquired: 11/16/2021 3:34:12 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-IC-L#.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.252	.2	.19	94.86	-
*1-Chlorooctadecane	13.057	.2	.151	75.28	-
*#Triacontane	16.312	.2	.095	47.45	-

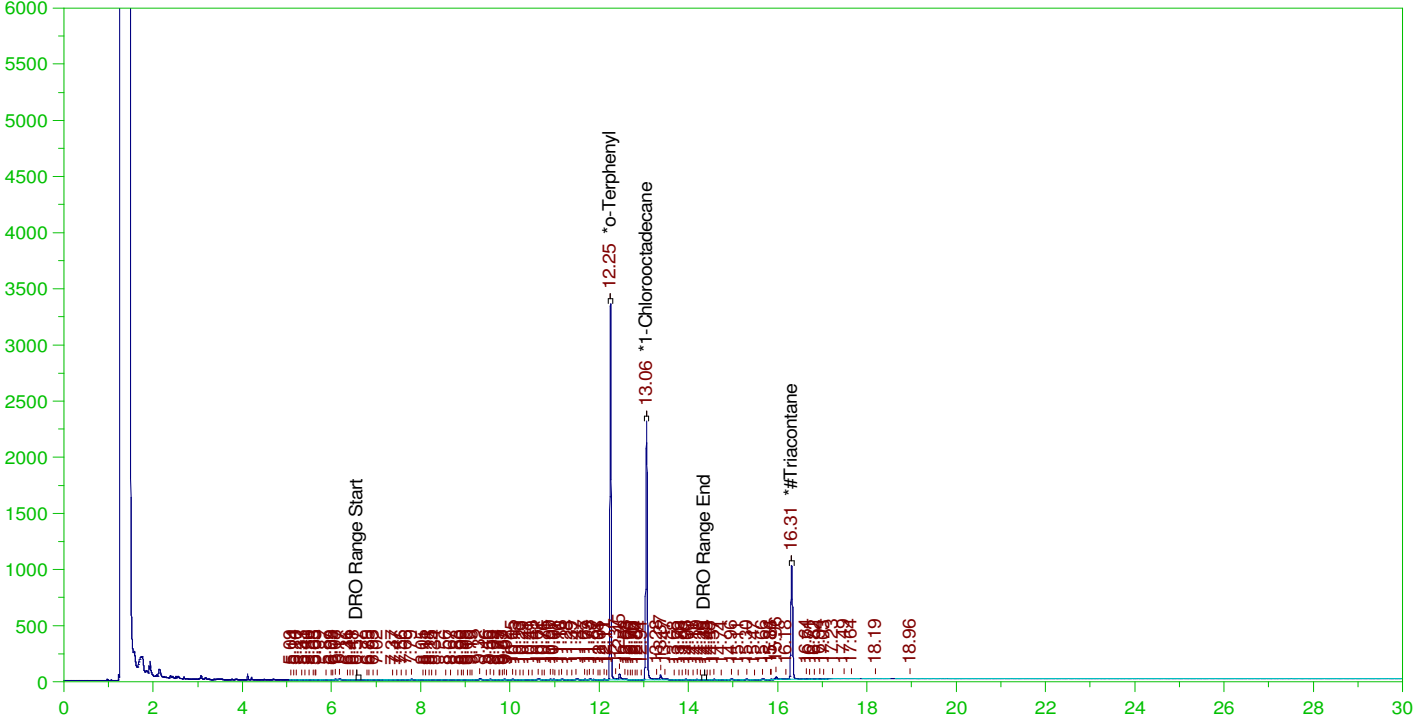
DRO Area: 641731.4 DRO Amount: 2.046782E-02
 TEH Area: 1111517 TEH Amount: 3.545148E-02

ERH1910 (RHSF)

G:\org\HP5\DAT\HP5111621_b\1116HP5.0011.RAW

Batch ID: 161348

B21111298-007A ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-007A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0011.RAW
Date & Time Acquired: 11/16/2021 4:16:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IC-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.251	.198	.179	90.36	-
*1-Chlorooctadecane	13.057	.198	.14	70.61	-
*#Triacontane	16.311	.198	.09	45.47	-

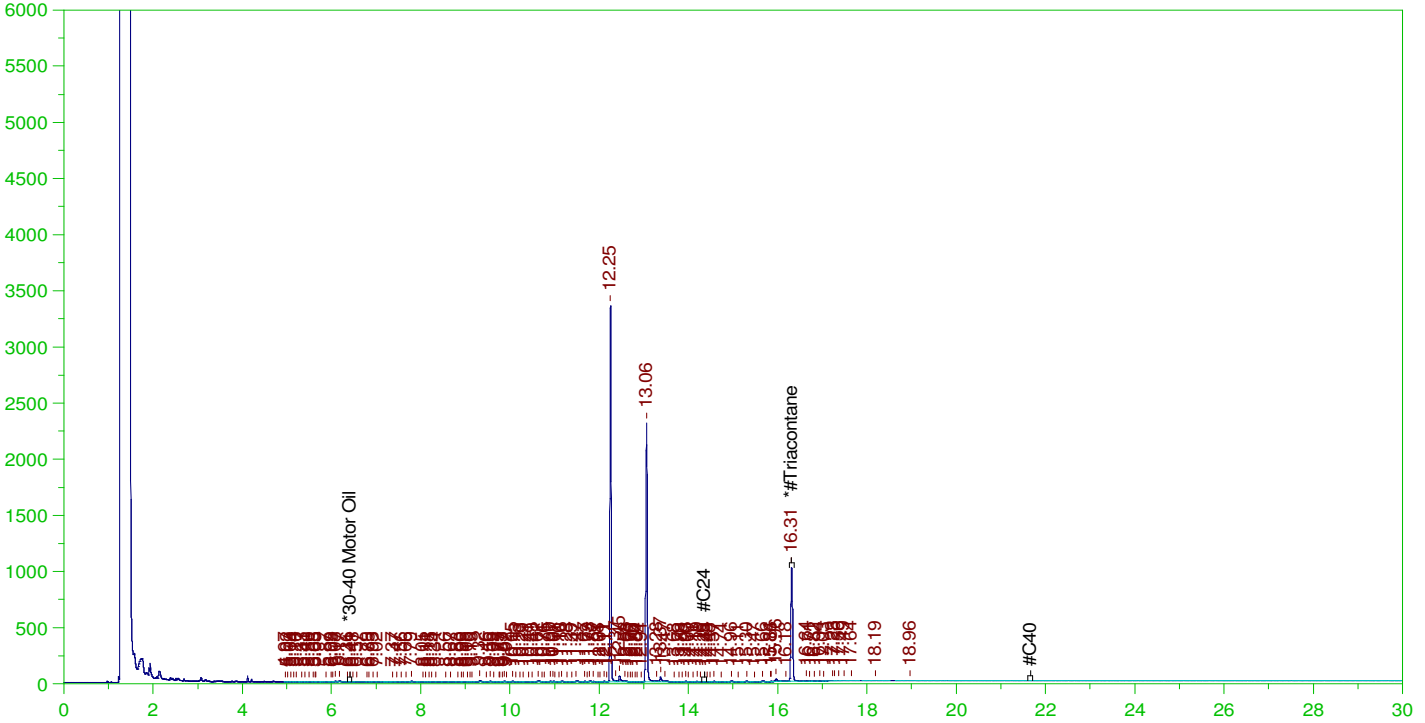
DRO Area:1091786 DRO Amount: 3.447738E-02
TEH Area:1375046 TEH Amount: 4.342243E-02

ERH1910 (RHSF)

G:\org\HP5\DAT\HP5111621_b\1116HP5.0011.RAW

Batch ID: 161348

B21111298-007A ;1116HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-007A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0011.RAW
Date & Time Acquired: 11/16/2021 4:16:38 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AE-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE-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: 14.3 to 21.71

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.311	.495	.09	18.19	-

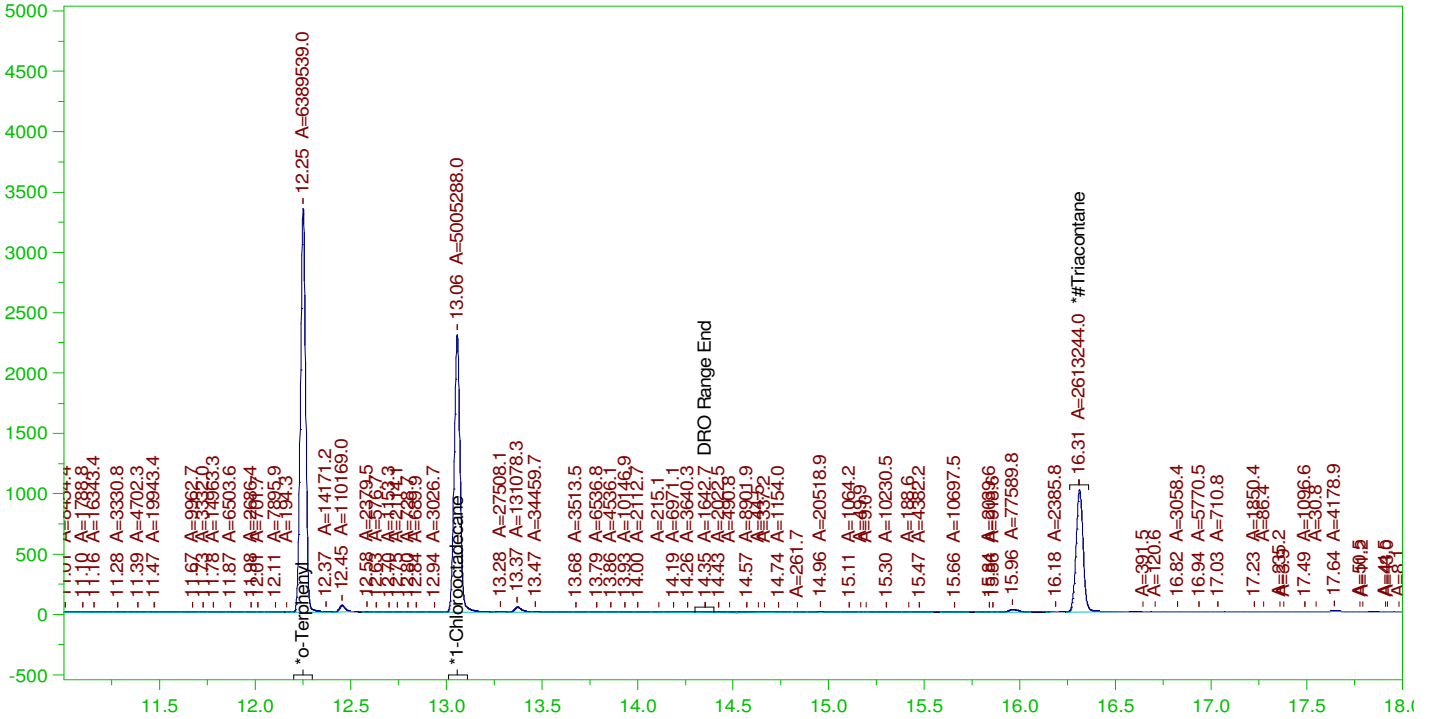
RRO Area:214217.8 RRO AMOUNT: 7.430938E-03

ERH1910 (RHSF)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0011.RAW

B21111298-007A ; 1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-007A ; 1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0011.RAW
Date & Time Acquired: 11/16/2021 4:16:38 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IC-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.251	.198	.178	89.97	-
*1-Chlorooctadecane	13.057	.198	.14	70.48	-
*#Triacontane	16.311	.198	.089	45.16	-

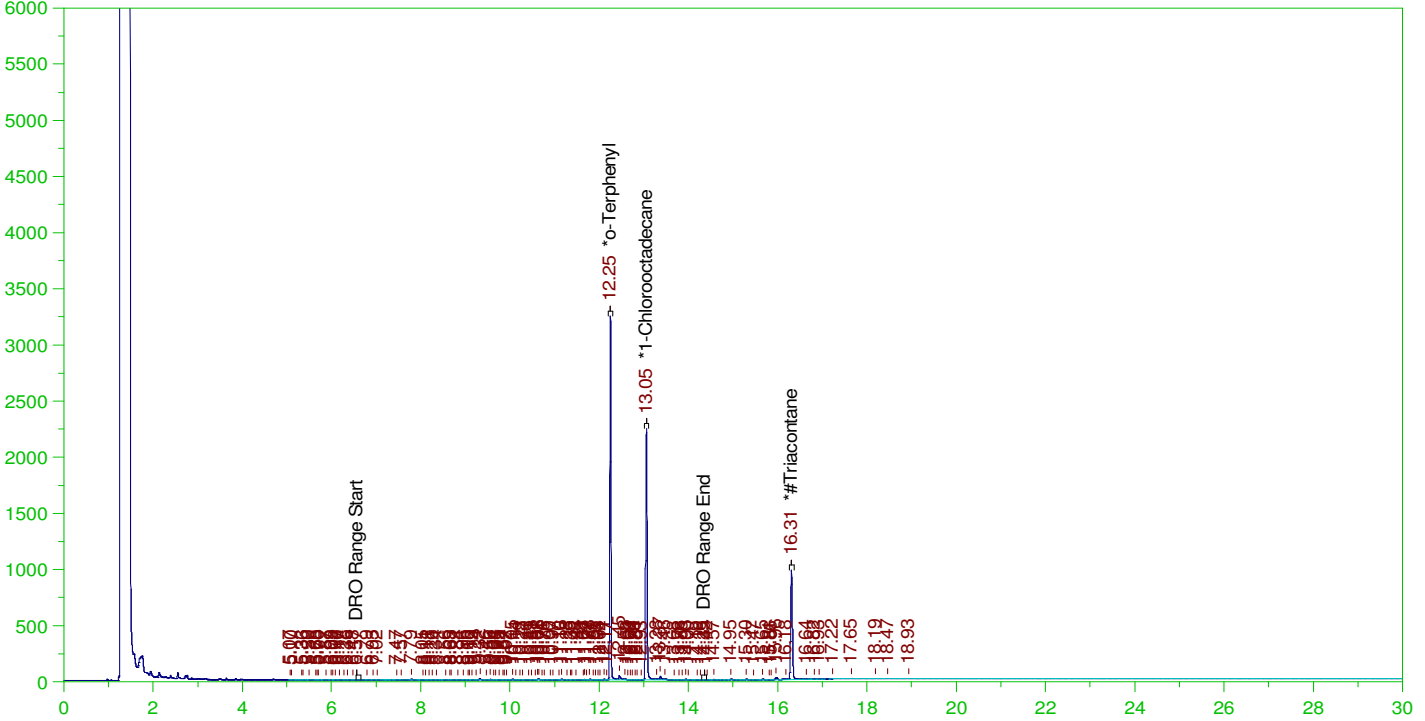
DRO Area: 814105.7 DRO Amount: 2.570856E-02
TEH Area: 1316617 TEH Amount: 4.157731E-02

ERH1908 (RHSF)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0012.RAW

B21111298-006A ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-006A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0012.RAW
Date & Time Acquired: 11/16/2021 4:59:23 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IC-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.249	.192	.166	86.22	-
*1-Chlorooctadecane	13.053	.192	.13	67.68	-
*#Triacontane	16.306	.192	.084	43.93	-

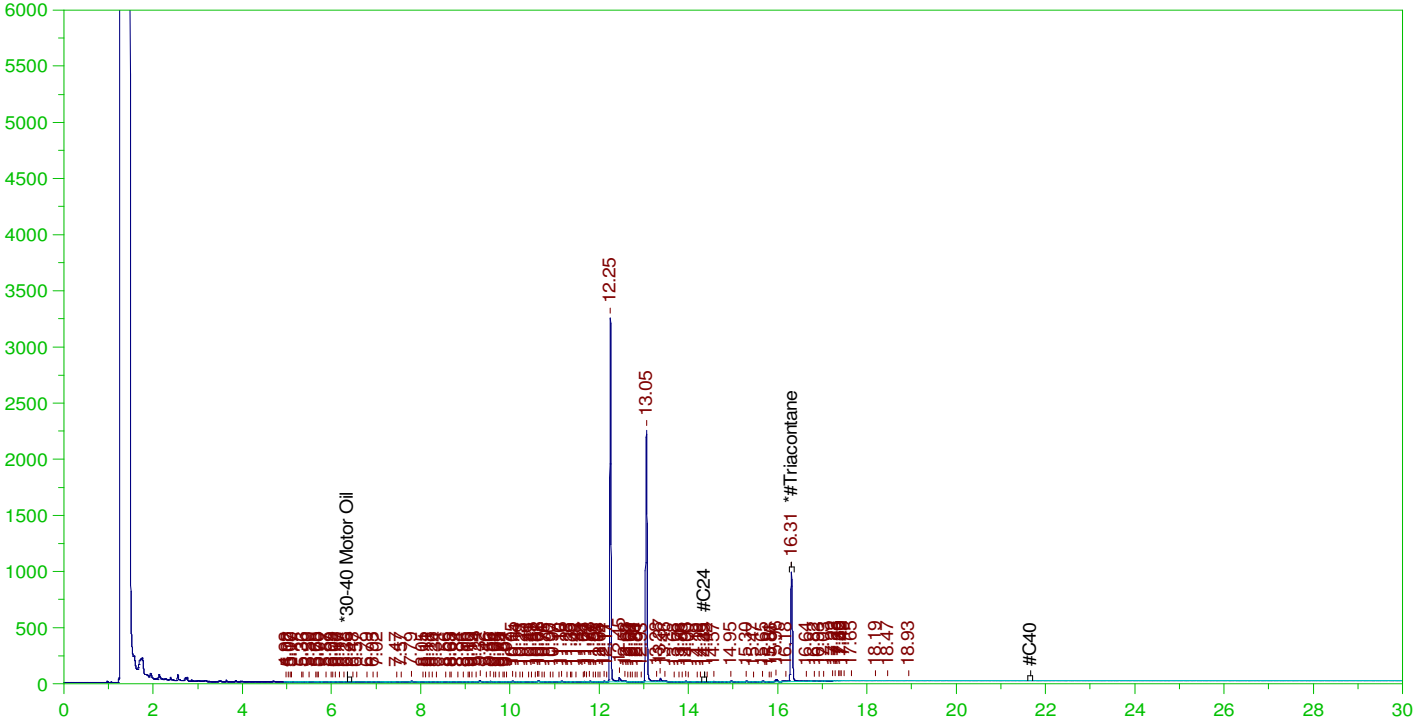
DRO Area:911093.9 DRO Amount: 2.794139E-02
TEH Area:1123562 TEH Amount: 3.445736E-02

ERH1908 (RHSF)

G:\org\HP5\DAT\HP5111621_b\1116HP5.0012.RAW

Batch ID: 161348

B21111298-006A ;1116HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-006A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0012.RAW
Date & Time Acquired: 11/16/2021 4:59:23 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AE-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE-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: 14.3 to 21.71

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.306	.481	.084	17.57

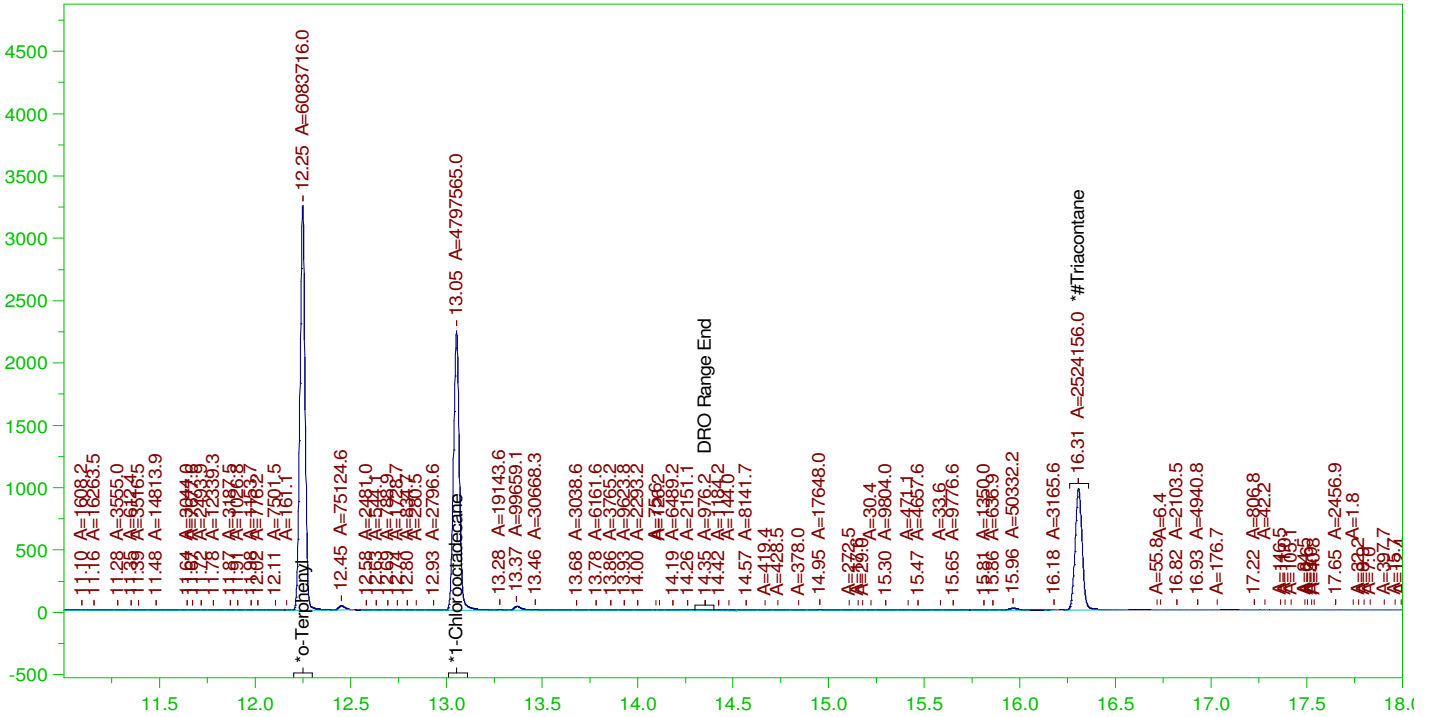
RRO Area:160717.4 RRO AMOUNT: 5.414257E-03

ERH1908 (RHSF)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0012.RAW

B21111298-006A ; 1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-006A ; 1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0012.RAW
Date & Time Acquired: 11/16/2021 4:59:23 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IC-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.249	.192	.165	85.66	-
*1-Chlorooctadecane	13.053	.192	.13	67.55	-
*Triacontane	16.306	.192	.084	43.63	-

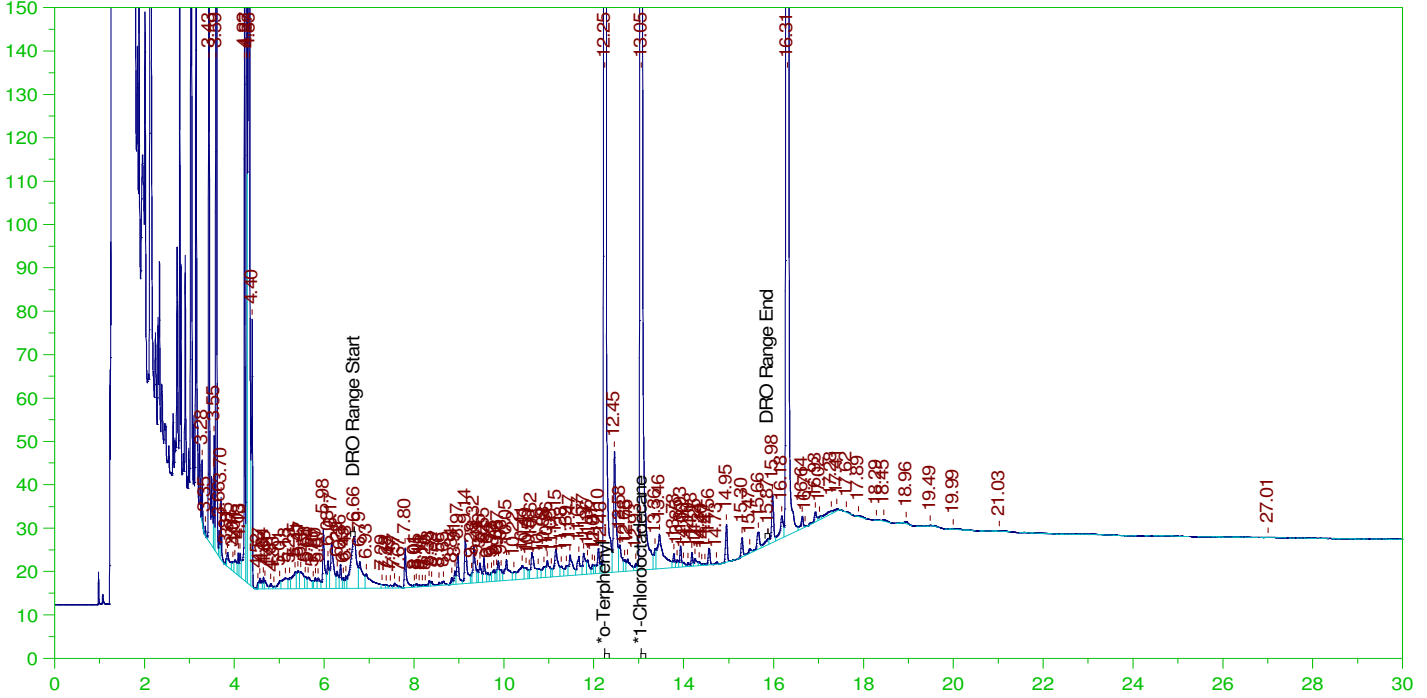
DRO Area: 671545.8 DRO Amount: 2.059494E-02
TEH Area: 1030827 TEH Amount: 3.161336E-02

ERH1905 (RHM2254-01)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0013.RAW

B21111298-005A ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-005A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0013.RAW
Date & Time Acquired: 11/16/2021 5:42:34 PM
Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.246	.19	.175	91.67	-
*1-Chlorooctadecane	13.051	.19	.137	71.71	-

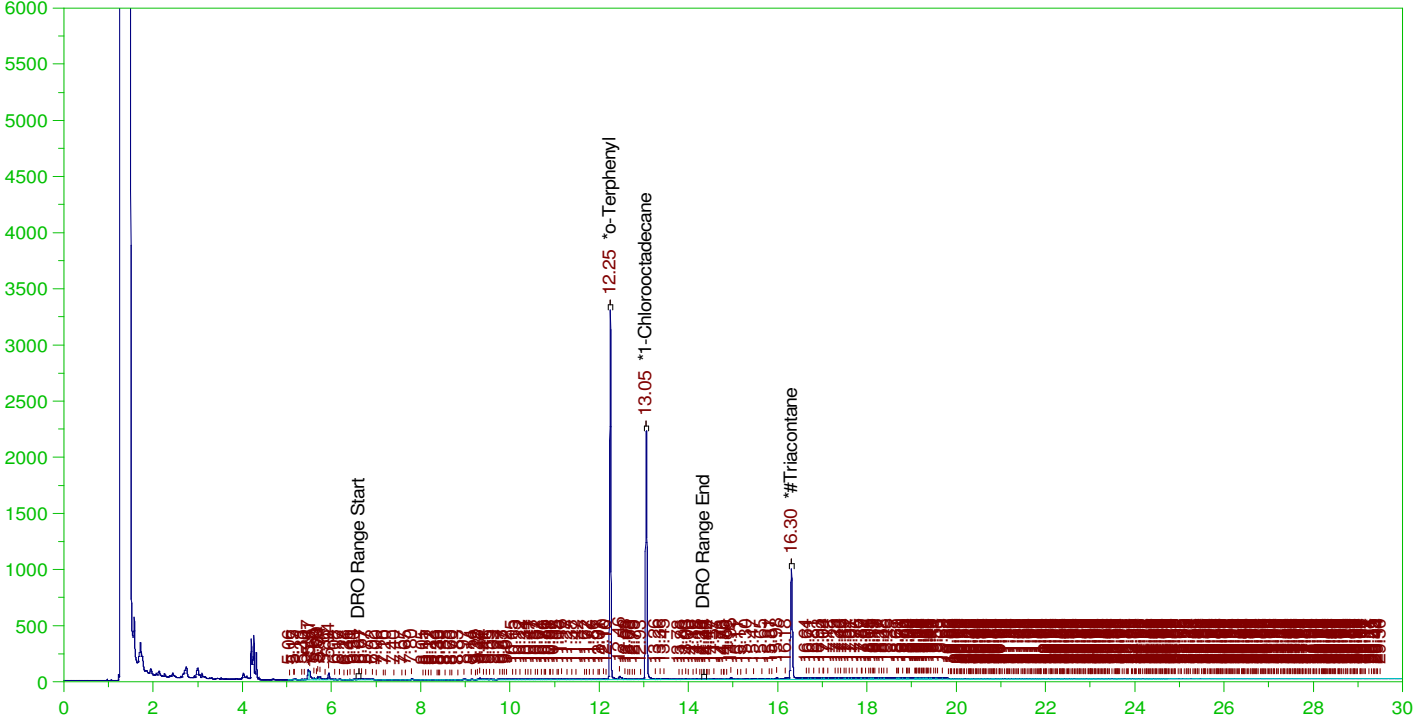
DRO Area:1183310 DRO Amount: 0.0359441
TEH Area:6382903 TEH Amount: 0.1938863

ERH1916 (Post-Chlorination)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0014.RAW

B21111298-008A ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-008A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0014.RAW
Date & Time Acquired: 11/16/2021 6:25:49 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.247	.19	.167	87.68	-
*1-Chlorooctadecane	13.051	.19	.127	66.7	-
*#Triacontane	16.305	.19	.089	46.76	-

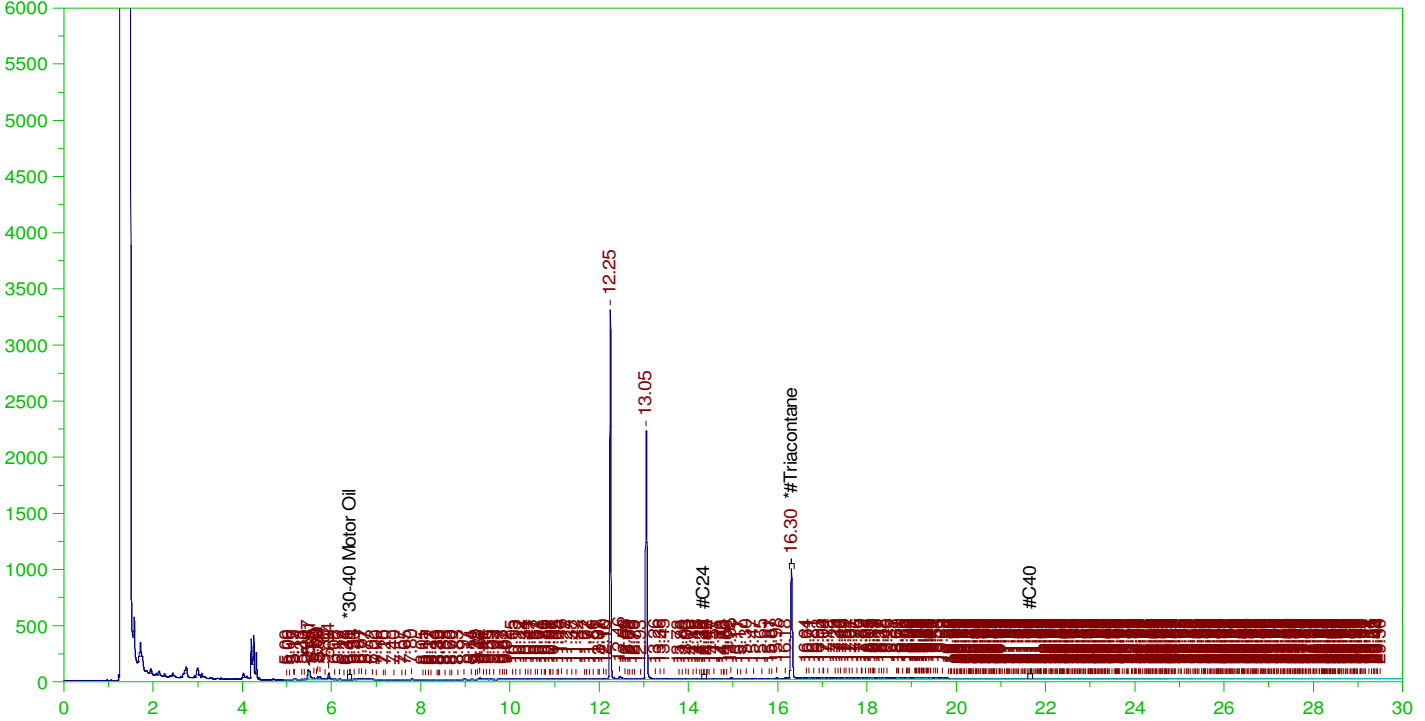
DRO Area:1488738 DRO Amount: 4.522172E-02
TEH Area:7405268 TEH Amount: 0.2249416

ERH1916 (Post-Chlorination)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0014.RAW

B21111298-008A ;1116HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-008A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0014.RAW
Date & Time Acquired: 11/16/2021 6:25:49 PM
Method File: G:\Org\HP5\Methods\D3_OROS-AE-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE-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: 14.3 to 21.71

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.305	.476	.089	18.7

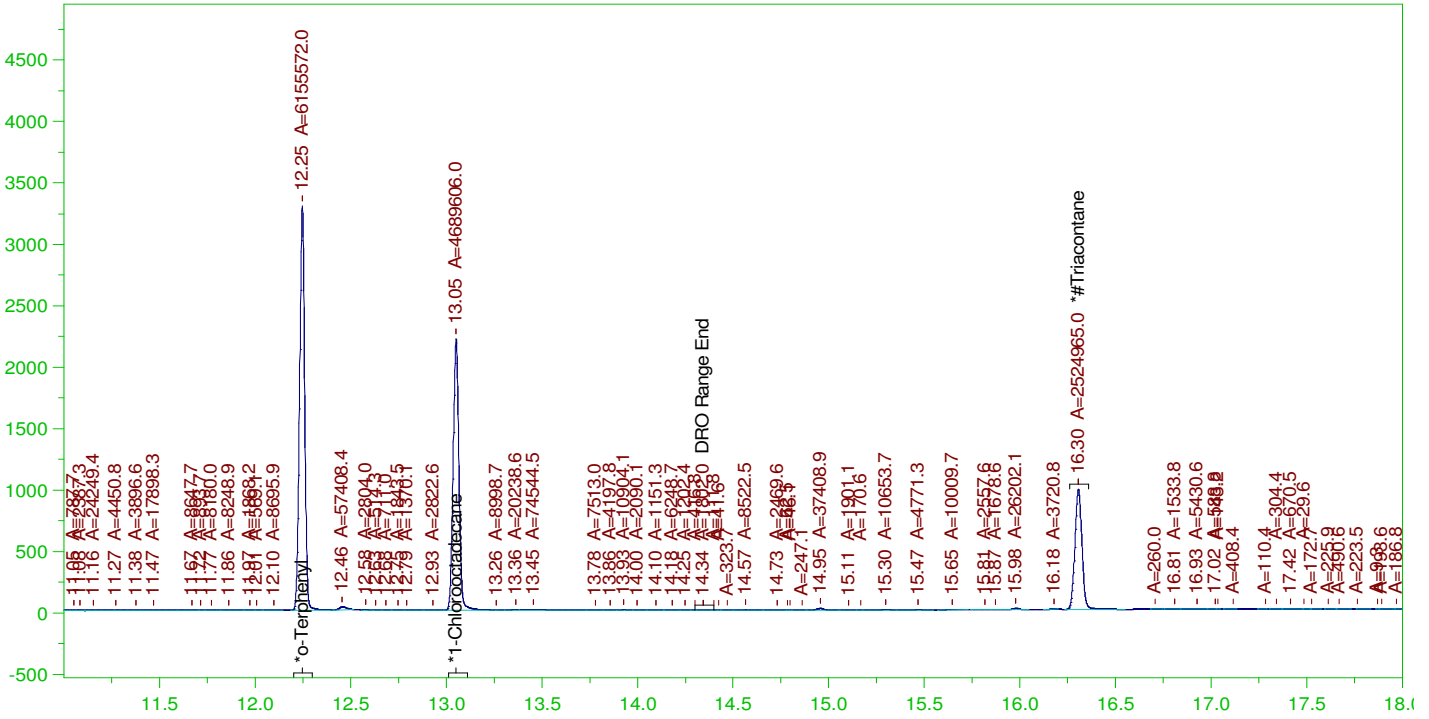
RRO Area:3661775 RRO AMOUNT: 0.1221833

ERH1916 (Post-Chlorination)

Batch ID: 161348

G:\Org\HP5\DAT\HP5111621_b\1116HP5.0014.RAW

B21111298-008A ; 1116HP5 , \$HC-8015-DRO-W,



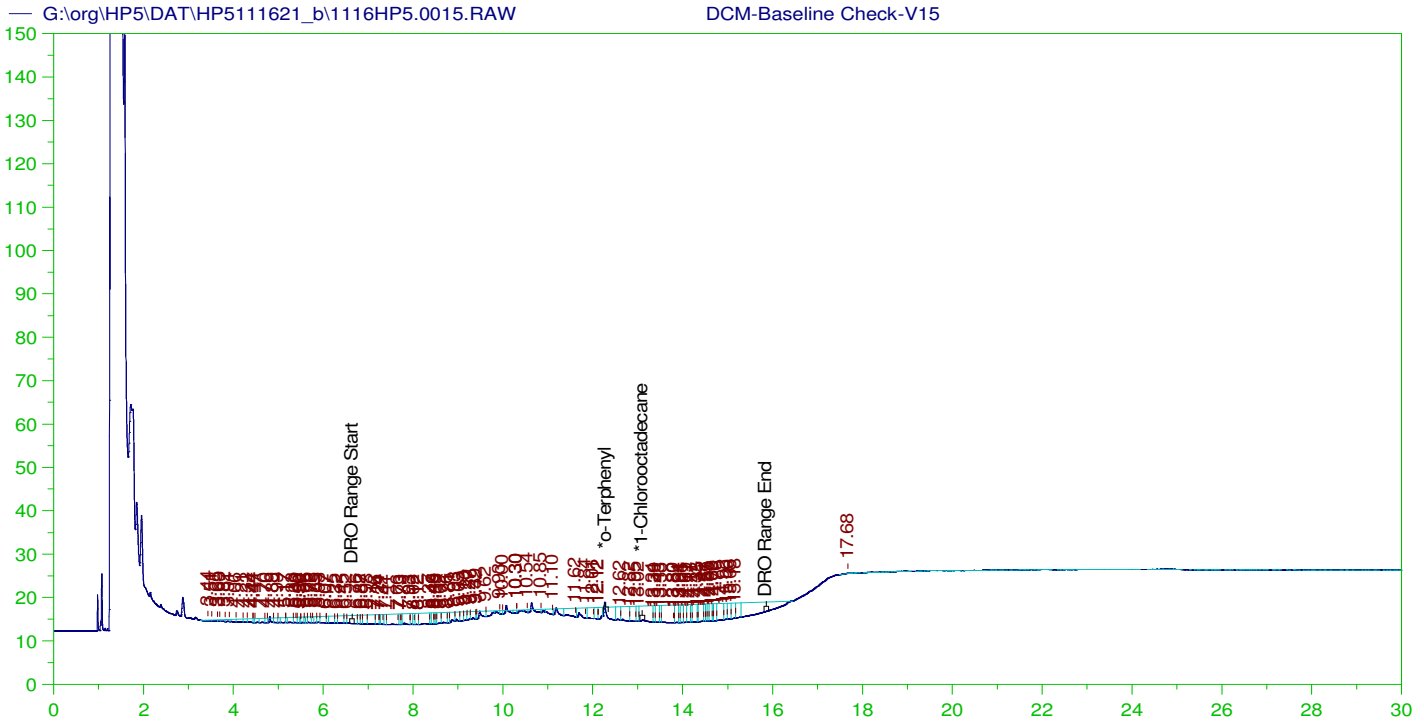
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-008A ; 1116HP5 , \$HC-8015-DRO-W,
 Raw File: G:\Org\HP5\DAT\HP5111621_b\1116HP5.0014.RAW
 Date & Time Acquired: 11/16/2021 6:25:49 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-IC-L#.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.247	.19	.165	86.68	-
*1-Chlorooctadecane	13.051	.19	.126	66.03	-
*#Triacontane	16.305	.19	.083	43.64	-

DRO Area: 817056.7 DRO Amount: 2.481882E-02
 TEH Area: 4100633 TEH Amount: 0.1245604



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V15
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0015.RAW
 Date & Time Acquired: 11/16/2021 7:09:21 PM
 Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

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

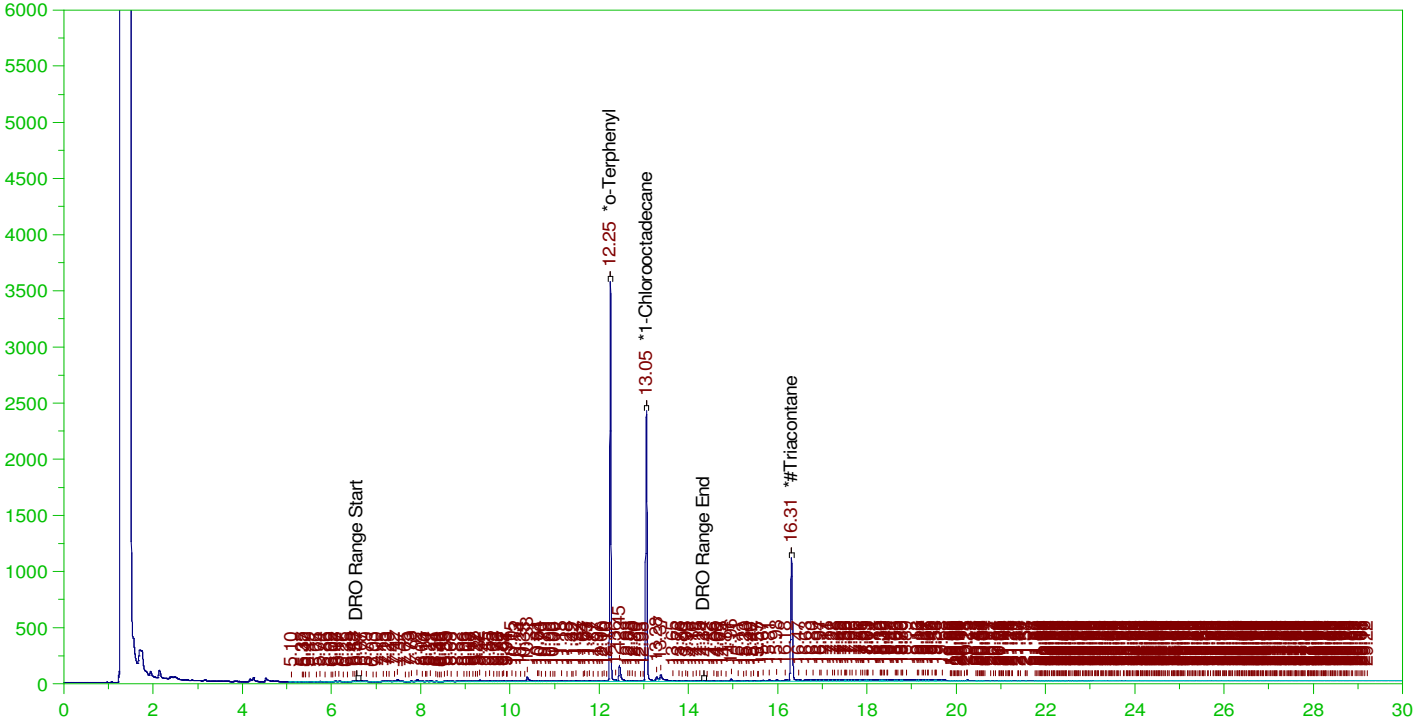
DRO Area:1114129 DRO Amount: 35.53477
 TEH Area:1175111 TEH Amount: 37.47978

ERH1902 (RHMW05)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0016.RAW

B21111298-004A ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-004A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0016.RAW
Date & Time Acquired: 11/16/2021 7:52:59 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.248	.2	.187	93.36	-
*1-Chlorooctadecane	13.053	.2	.145	72.33	-
*#Triacontane	16.307	.2	.101	50.54	-

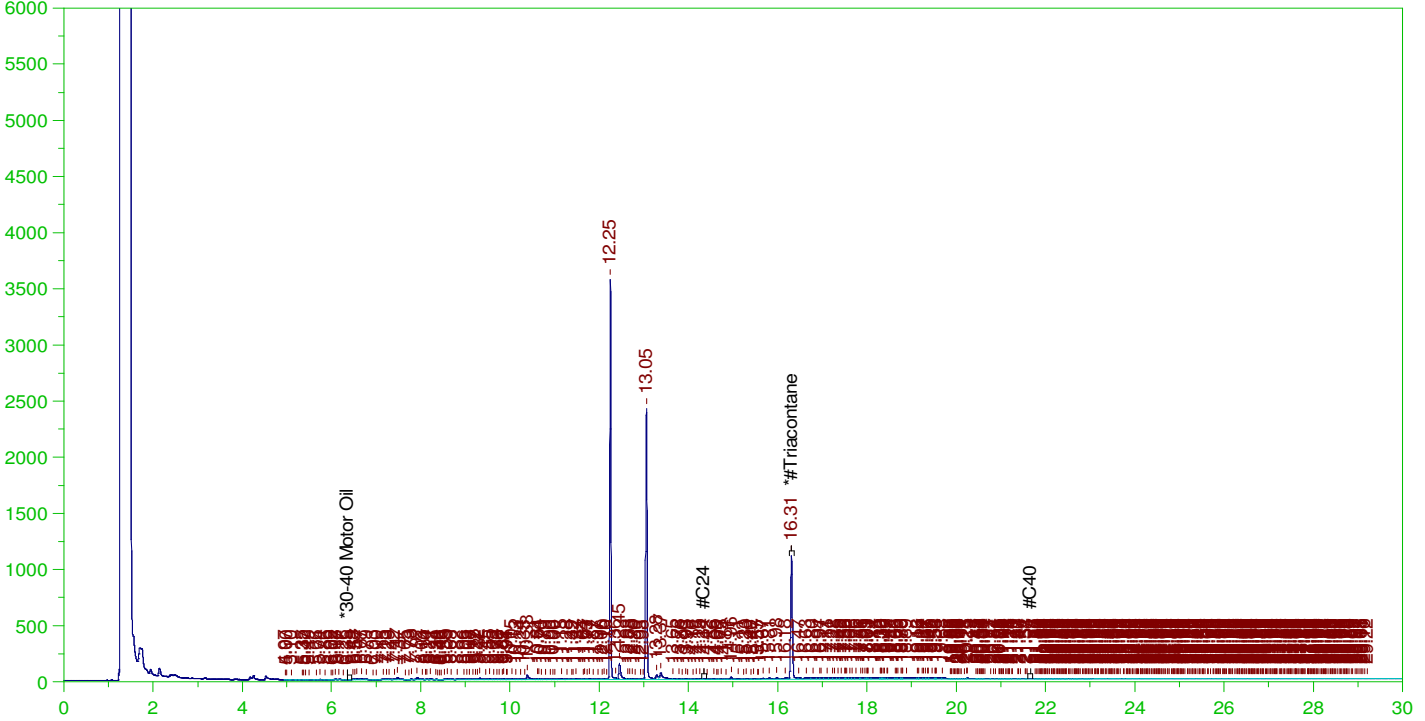
DRO Area:2695946 DRO Amount: 8.598633E-02
TEH Area:7156934 TEH Amount: 0.2282681

ERH1902 (RHMW05)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0016.RAW

B21111298-004A ;1116HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-004A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0016.RAW
Date & Time Acquired: 11/16/2021 7:52:59 PM
Method File: G:\Org\HP5\Methods\D3_OROS-AE-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE-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: 14.3 to 21.71

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.307	.5	.101	20.21

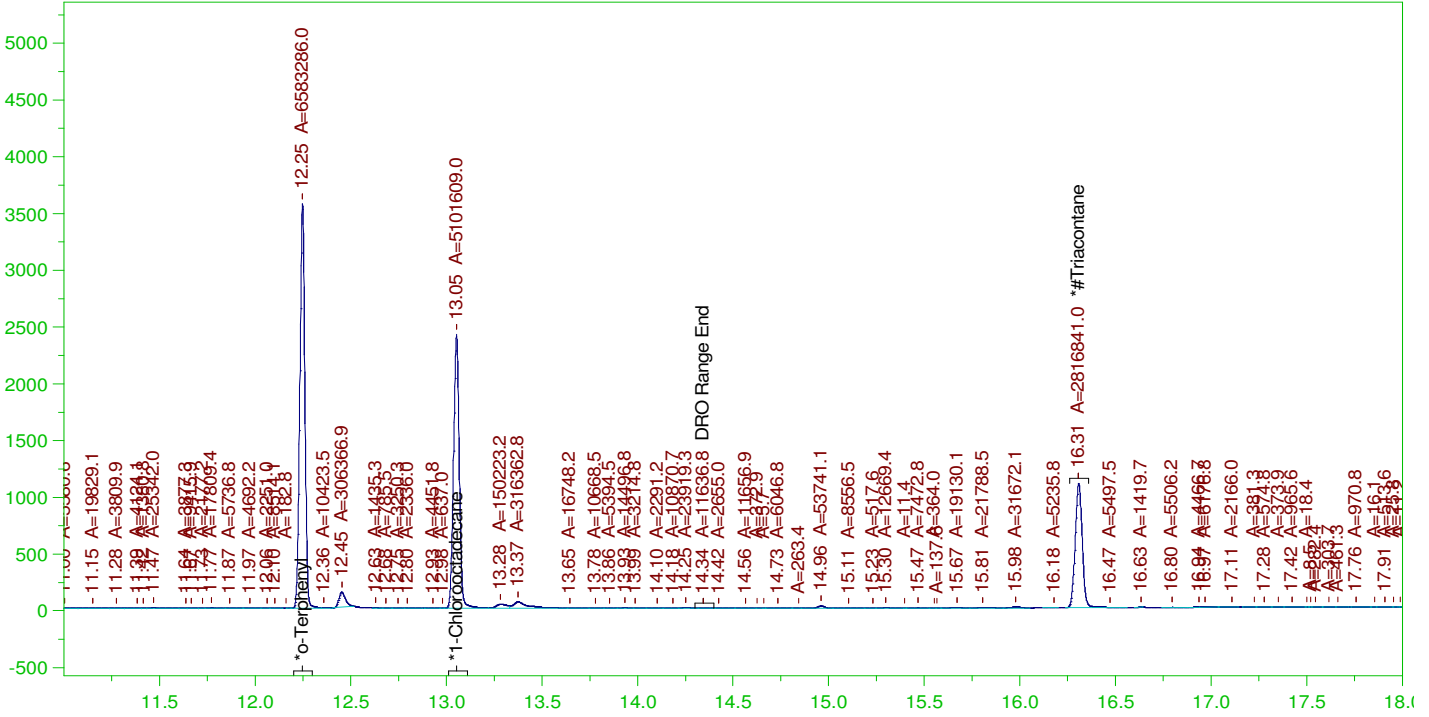
RRO Area:3216846 RRO AMOUNT: 0.1127041

ERH1902 (RHMW05)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0016.RAW

B21111298-004A ; 1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-004A ; 1116HP5 , \$HC-8015-DRO-W,
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0016.RAW
 Date & Time Acquired: 11/16/2021 7:52:59 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-IC-L#.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.248	.2	.185	92.7
*1-Chlorooctadecane	13.053	.2	.144	71.84
*#Triacontane	16.307	.2	.097	48.68

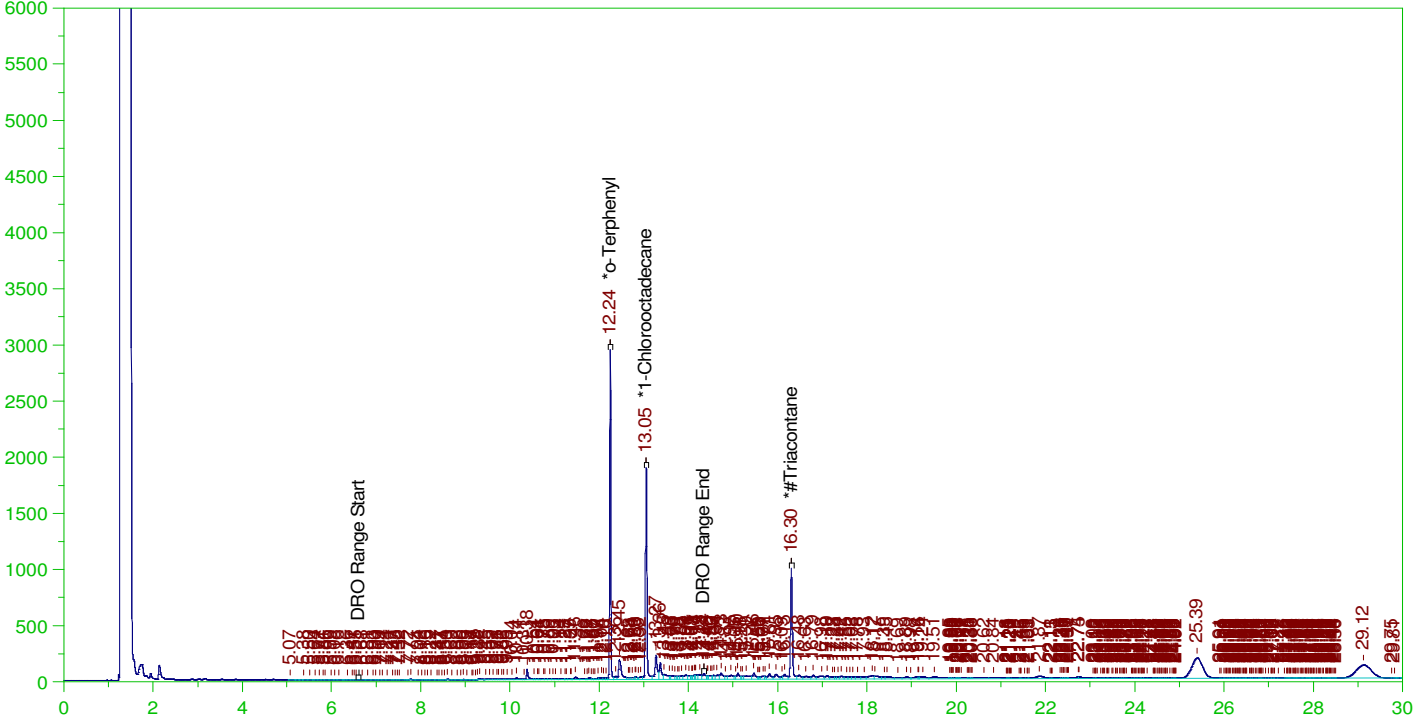
DRO Area: 1876578 DRO Amount: 5.985285E-02
 TEH Area: 2807207 TEH Amount: 8.953495E-02

ERH1899 (RHMW03)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0017.RAW

B21111298-003A ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-003A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0017.RAW
Date & Time Acquired: 11/16/2021 8:36:13 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.245	.192	.152	79.27	-
*1-Chlorooctadecane	13.049	.192	.115	59.72	-
*#Triacontane	16.304	.192	.092	47.95	-

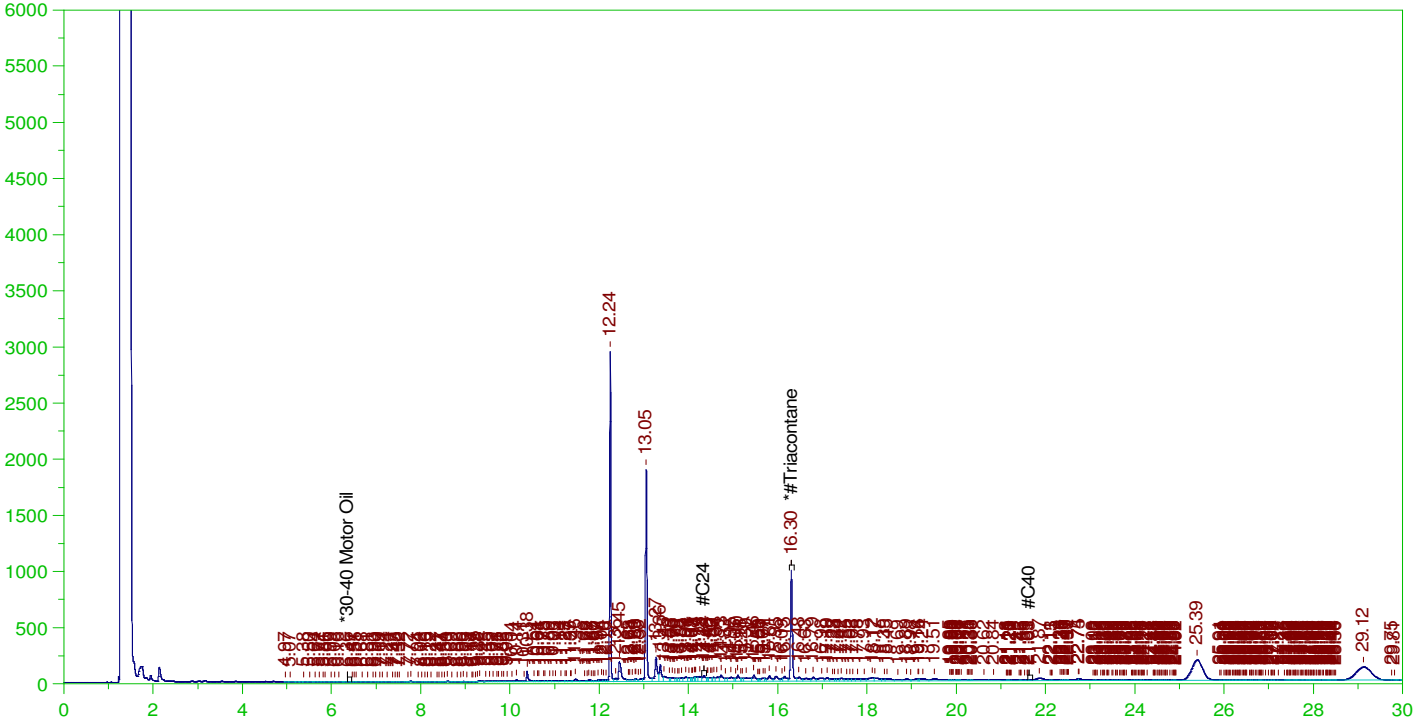
DRO Area: 6537221 DRO Amount: 0.2004832
TEH Area: 2.410662E+07 TEH Amount: 0.7393008

ERH1899 (RHMW03)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0017.RAW

B21111298-003A ;1116HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-003A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0017.RAW
Date & Time Acquired: 11/16/2021 8:36:13 PM
Method File: G:\Org\HP5\Methods\D3_OROS-AE-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE-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: 14.3 to 21.71

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.304	.481	.092	19.18

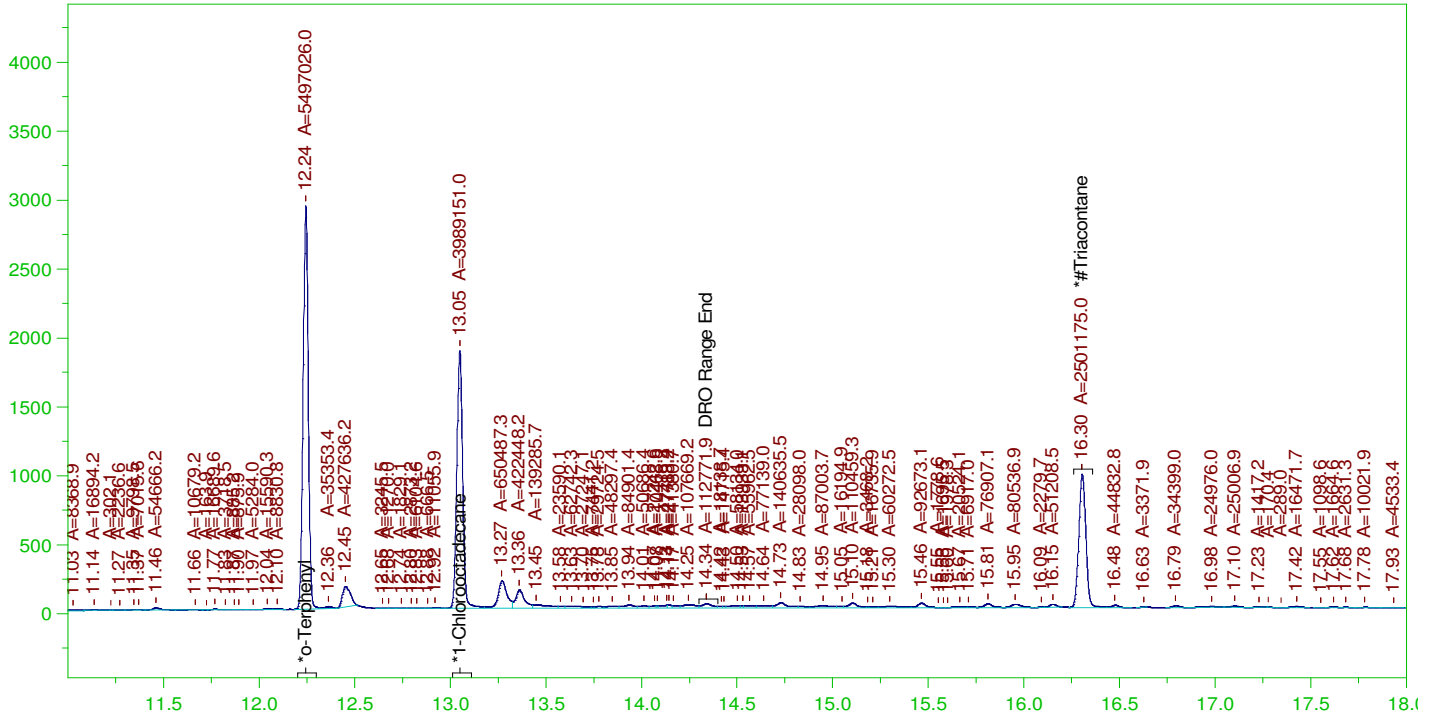
RRO Area:9278418 RRO AMOUNT: 0.3125719

ERH1899 (RHMW03)

Batch ID: 161348

G:\Org\HP5\DAT\HP5111621_b\1116HP5.0017.RAW

B21111298-003A ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-003A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\Org\HP5\DAT\HP5111621_b\1116HP5.0017.RAW
Date & Time Acquired: 11/16/2021 8:36:13 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IC-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.245	.192	.149	77.4
*1-Chlorooctadecane	13.049	.192	.108	56.17
*#Triacontane	16.304	.192	.083	43.23

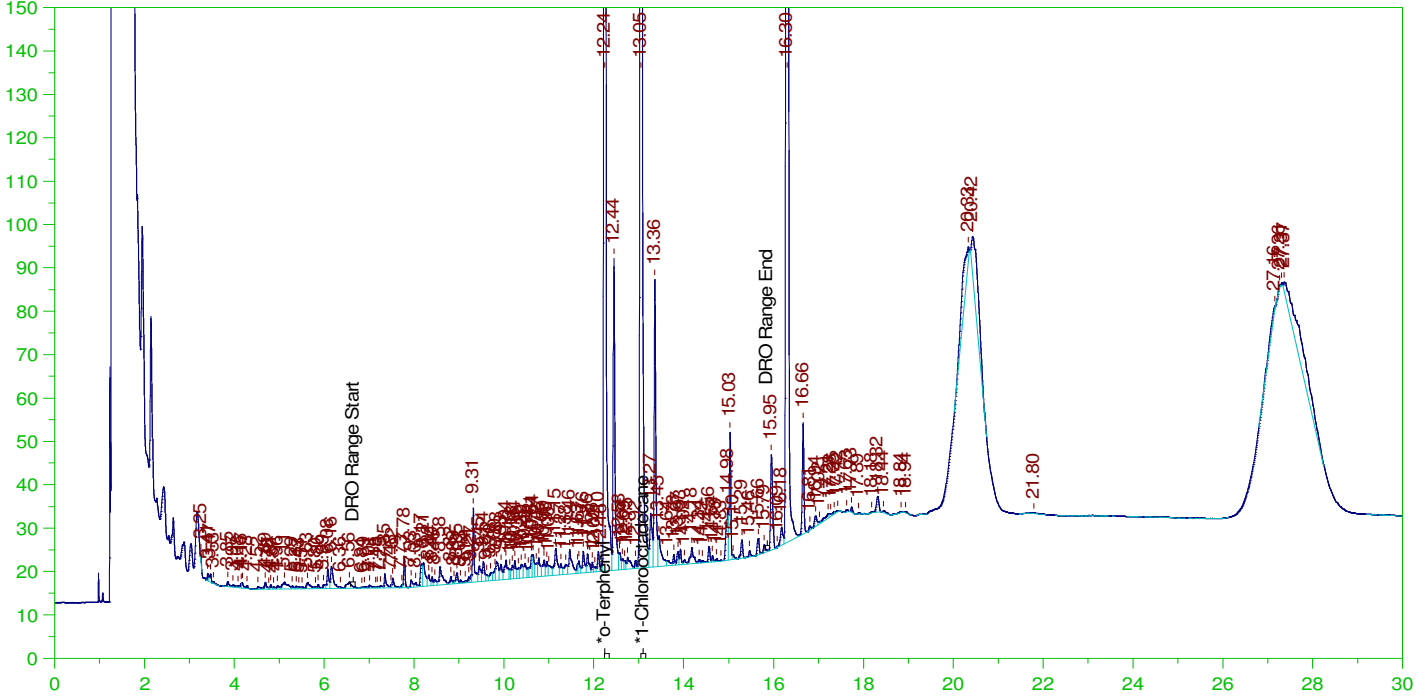
DRO Area:3159209 DRO Amount: 0.0968865
TEH Area:1.091306E+07 TEH Amount: 0.3346813

ERH1718 (RHMW11 Zone 5)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0018.RAW

B21111290-001B ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

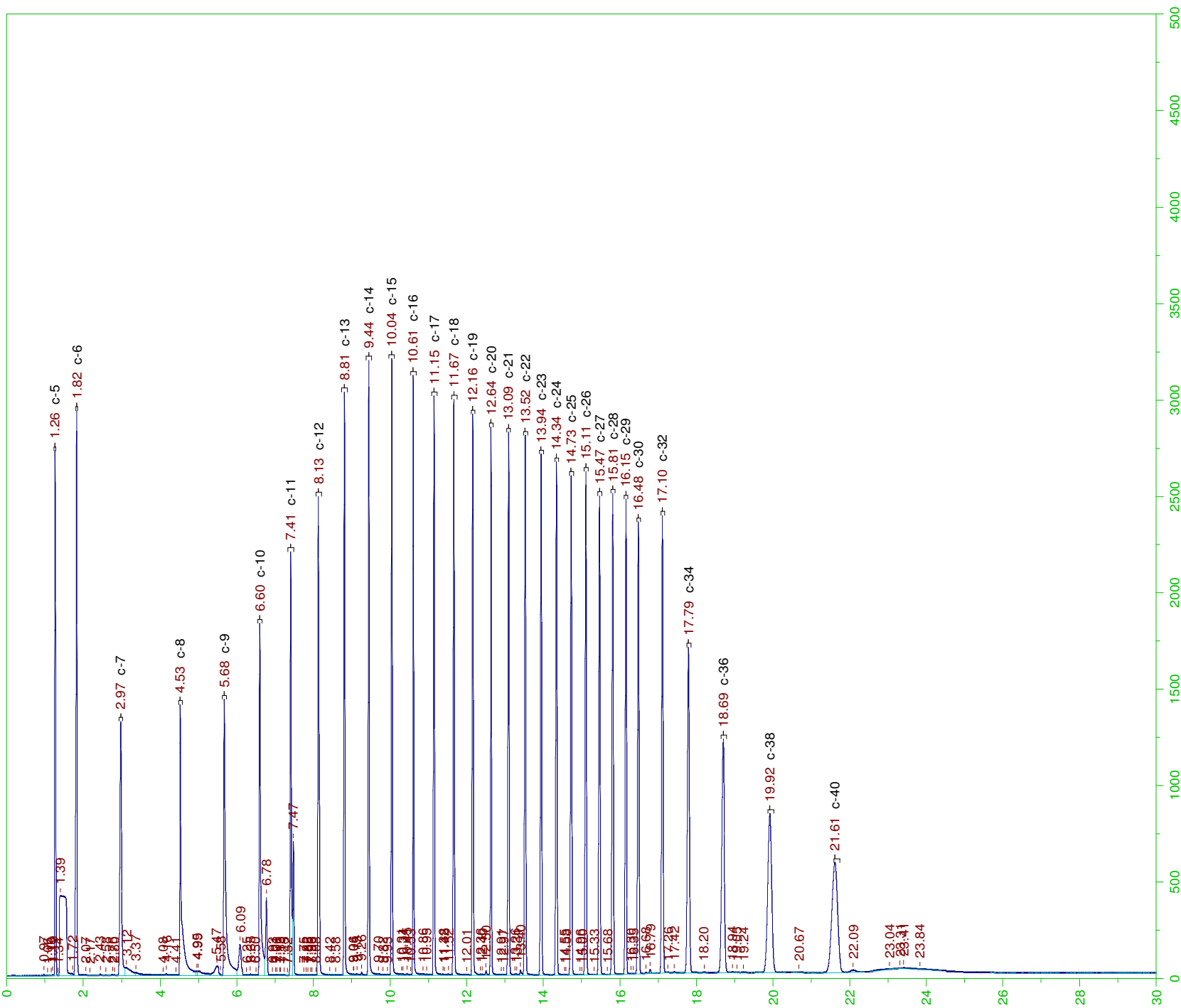
Sample Name: B21111290-001B ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0018.RAW
Date & Time Acquired: 11/16/2021 9:19:17 PM
Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

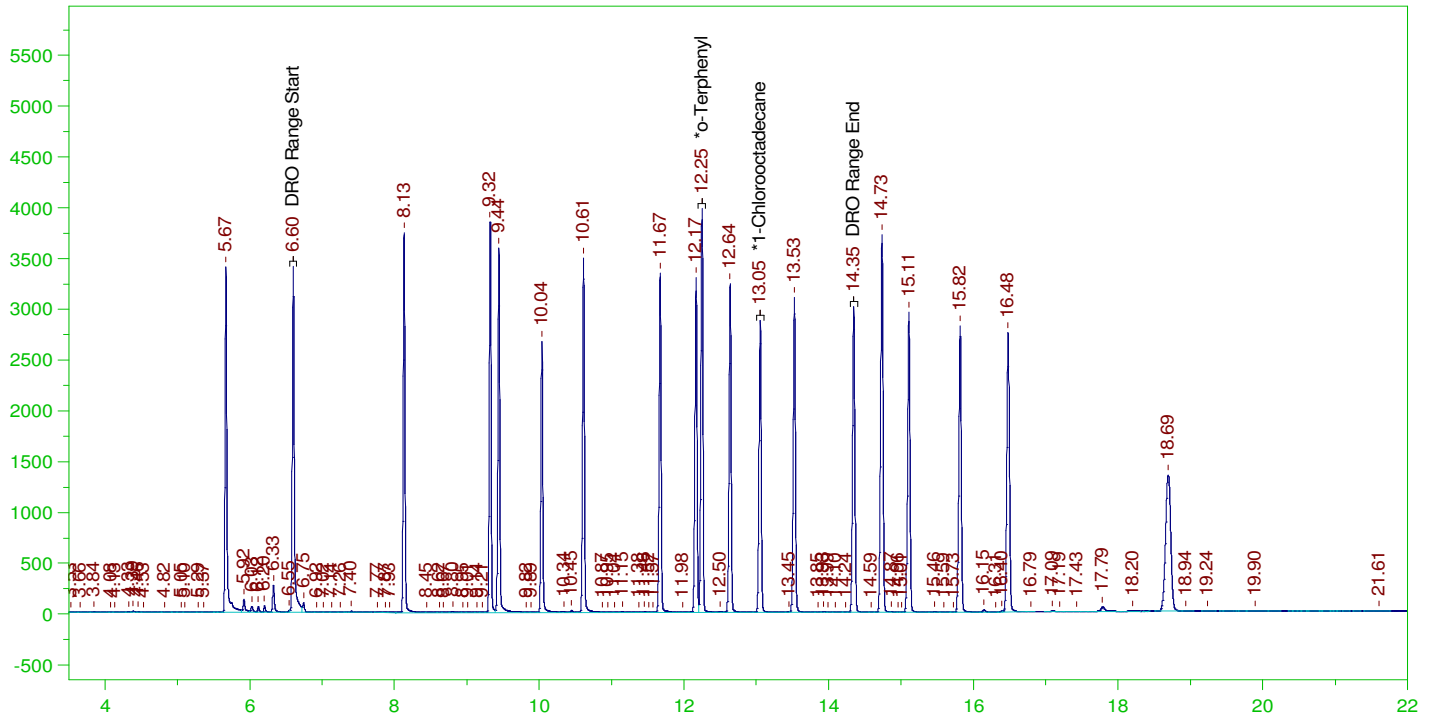
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.245	.19	.156	81.85	-
*1-Chlorooctadecane	29.765	.19	.	.	-

DRO Area:5109878 DRO Amount: 0.1552171
TEH Area:8574781 TEH Amount: 0.2604666



G:\org\HP5\DAT\HP5111621_b\1116HP5.0020.RAW

MARKER_1116HP520r, DRO ;1116HP5 , DRO211103B



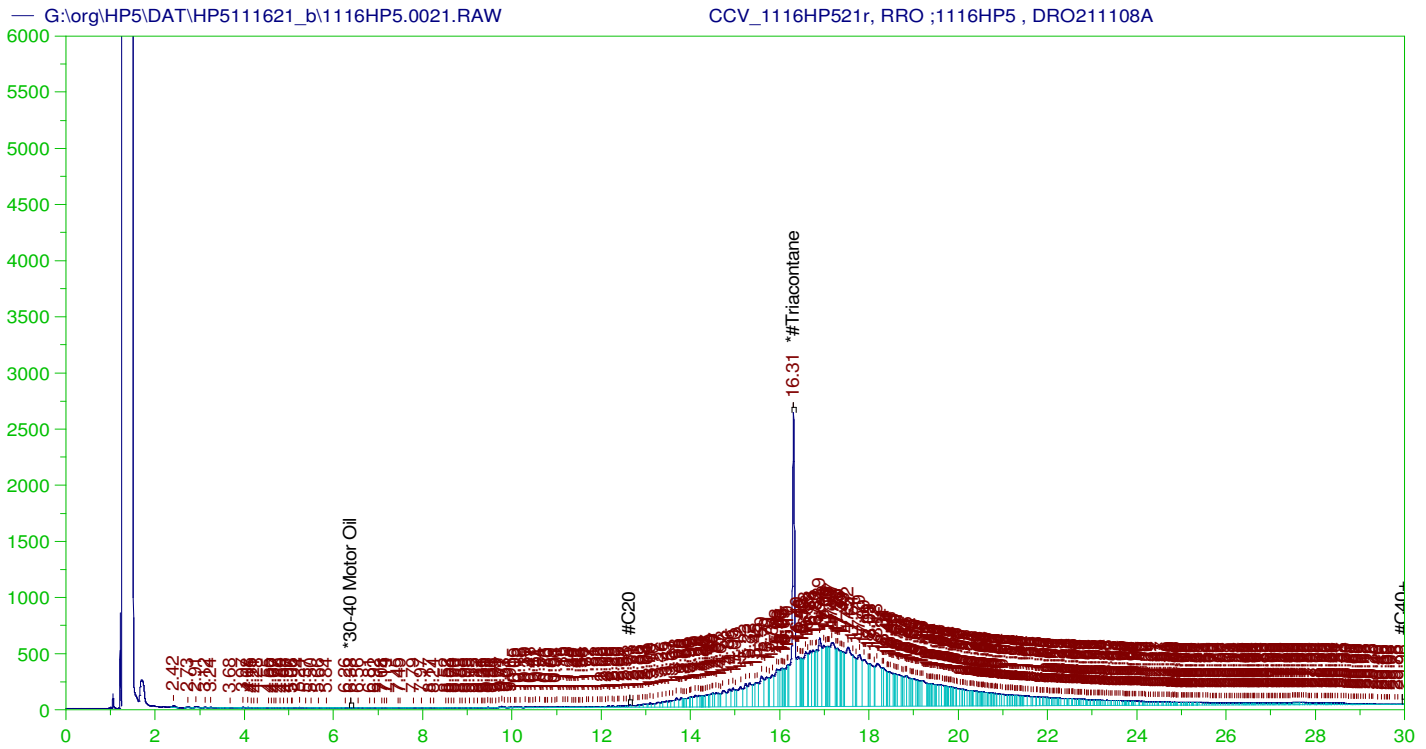
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MARKER_1116HP520r, DRO ;1116HP5 , DRO211103B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0020.RAW
 Date & Time Acquired: 11/16/2021 10:45:28 PM
 Method File: G:\Org\HP5\Methods\DC_8015-24-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.249	.2	.21	105.12
*1-Chlorooctadecane	13.052	.2	.17	84.96

DRO Area: 7.115661E+07 DRO Amount: 2.269517
 TEH Area: 1.150915E+08 TEH Amount: 3.670806



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1116HP521r, RRO ;1116HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0021.RAW
 Date & Time Acquired: 11/16/2021 11:28:32 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.308	500.	331.381	66.28	-

~~RRO~~ TEH(Oil Range) Area:1.3139E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4603.324

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0021.RAW

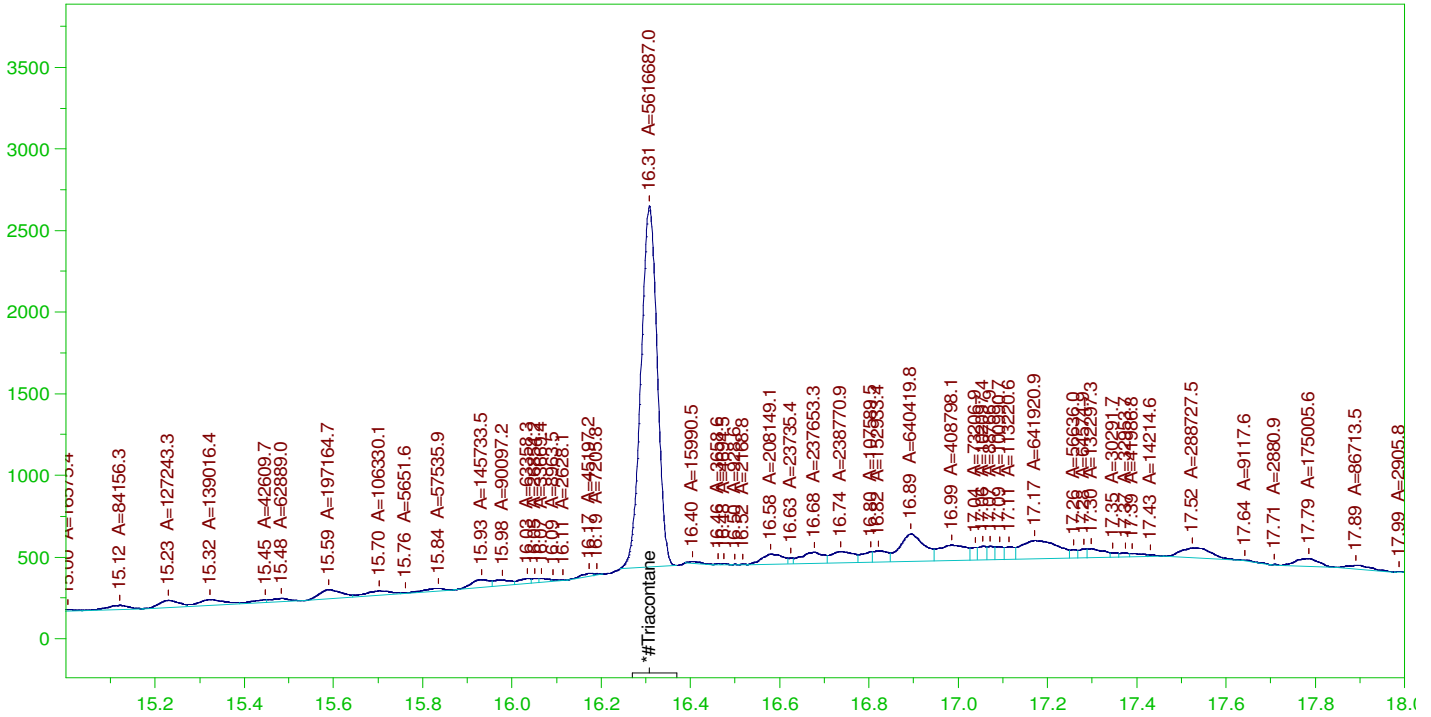
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.023	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.308	200.	331.381	165.69	75-125

AMN 11/19/2021

G:\org\HP5\DAT\HP5111621_b\1116HP5.0021.RAW

CCV_1116HP521r, RRO ;1116HP5 , DRO211108A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1116HP521r, RRO ;1116HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0021.RAW
 Date & Time Acquired: 11/16/2021 11:28:32 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

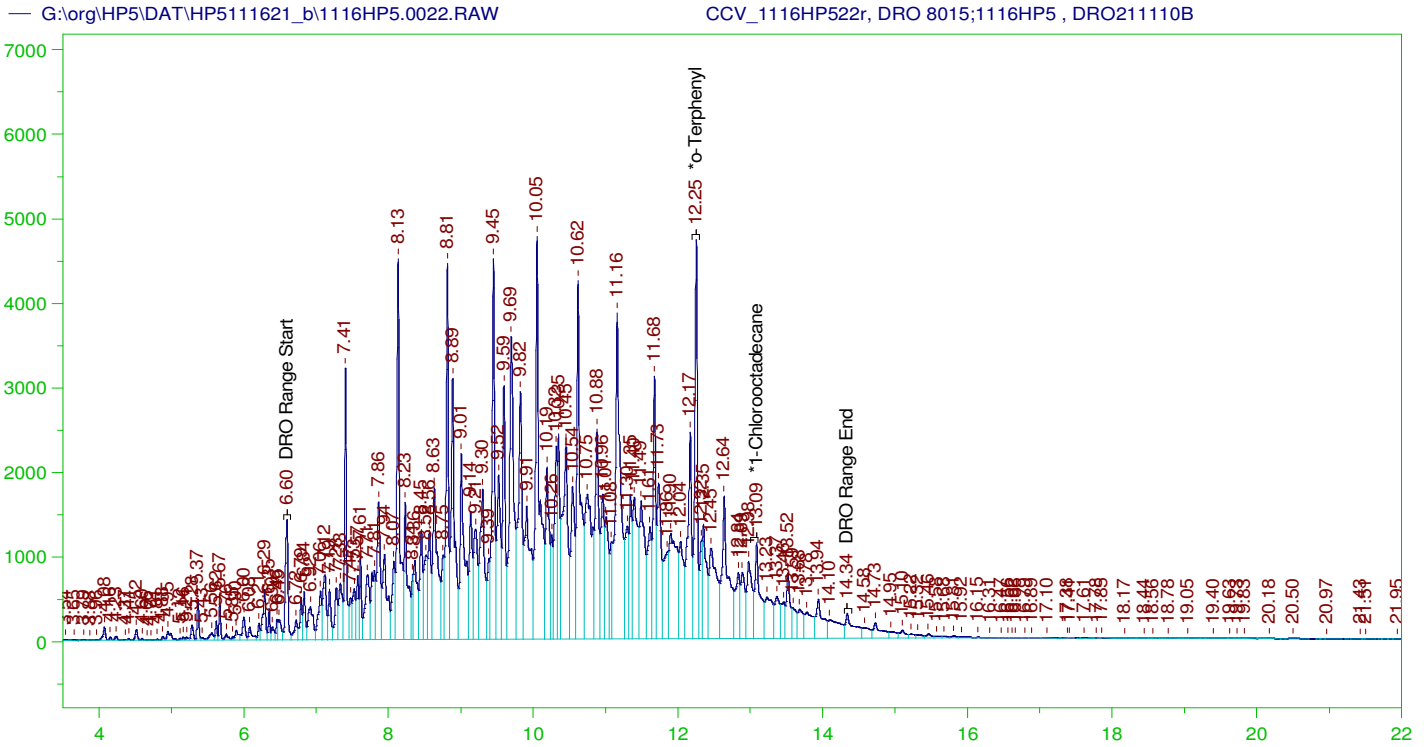
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.308	500.	194.147	38.83

RRO Area:6840684 RRO AMOUNT: 239.6673

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0021.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.023	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.308	200.	194.147	97.07	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1116HP522r, DRO 8015;1116HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0022.RAW
 Date & Time Acquired: 11/17/2021 12:11:32 AM
 Method File: G:\Org\HP5\Methods\DC_8015-24-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

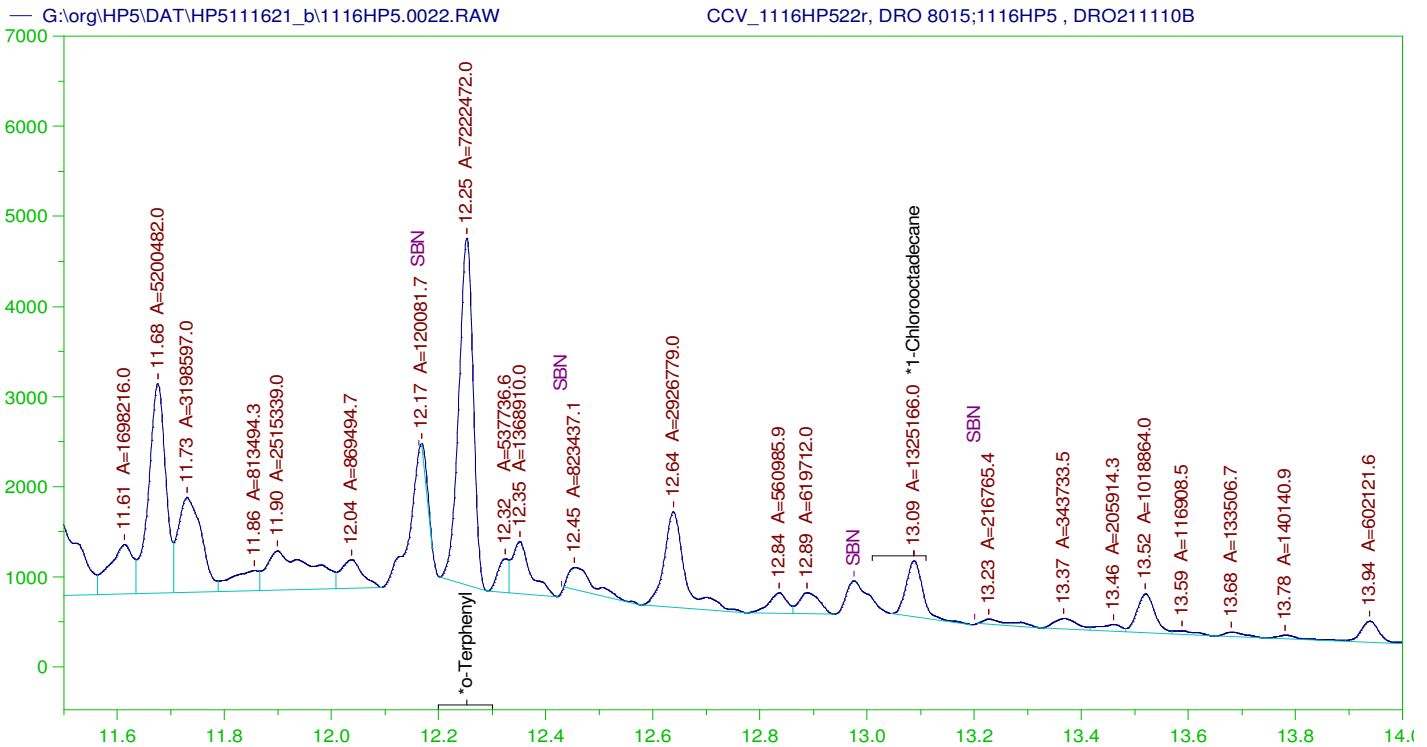
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.252	200.	335.318	167.66
*1-Chlorooctadecane	13.087	200.	162.775	81.39

DRO Area: 4.702333E+08 DRO Amount: 14997.94
 TEH Area: 4.8662E+08 TEH Amount: 15520.59

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0022.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15520.59	103.47	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.252	200.	335.318	167.66	85-115
*1-Chlorooctadecane	13.087	200.	162.775	81.39	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1116HP522r, DRO 8015;1116HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0022.RAW
 Date & Time Acquired: 11/17/2021 12:11:32 AM
 Method File: G:\Org\HP5\Methods\DS_8015-24-IC-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

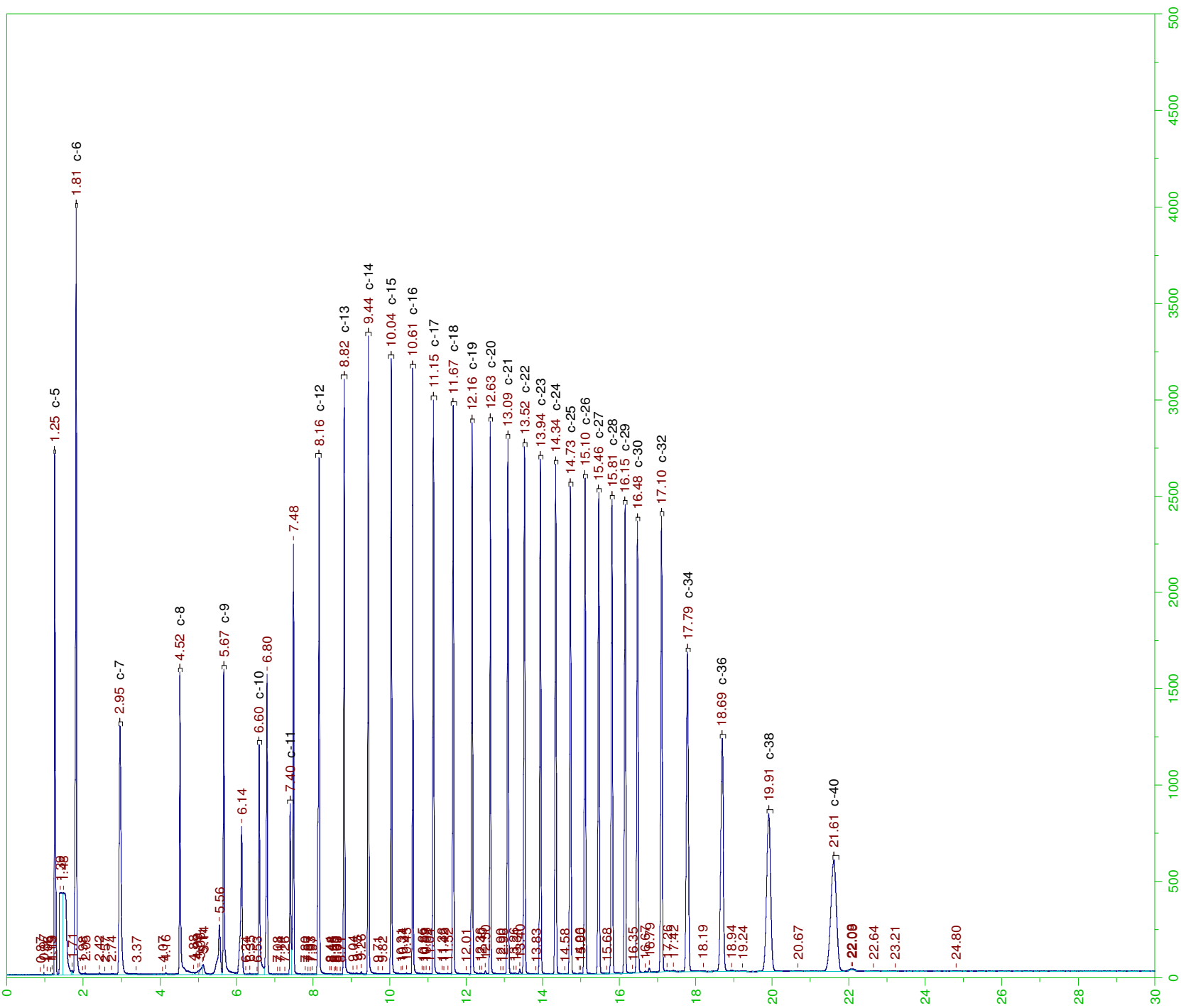
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.252	200.	203.397	101.7
*1-Chlorooctadecane	13.087	200.	37.319	18.66

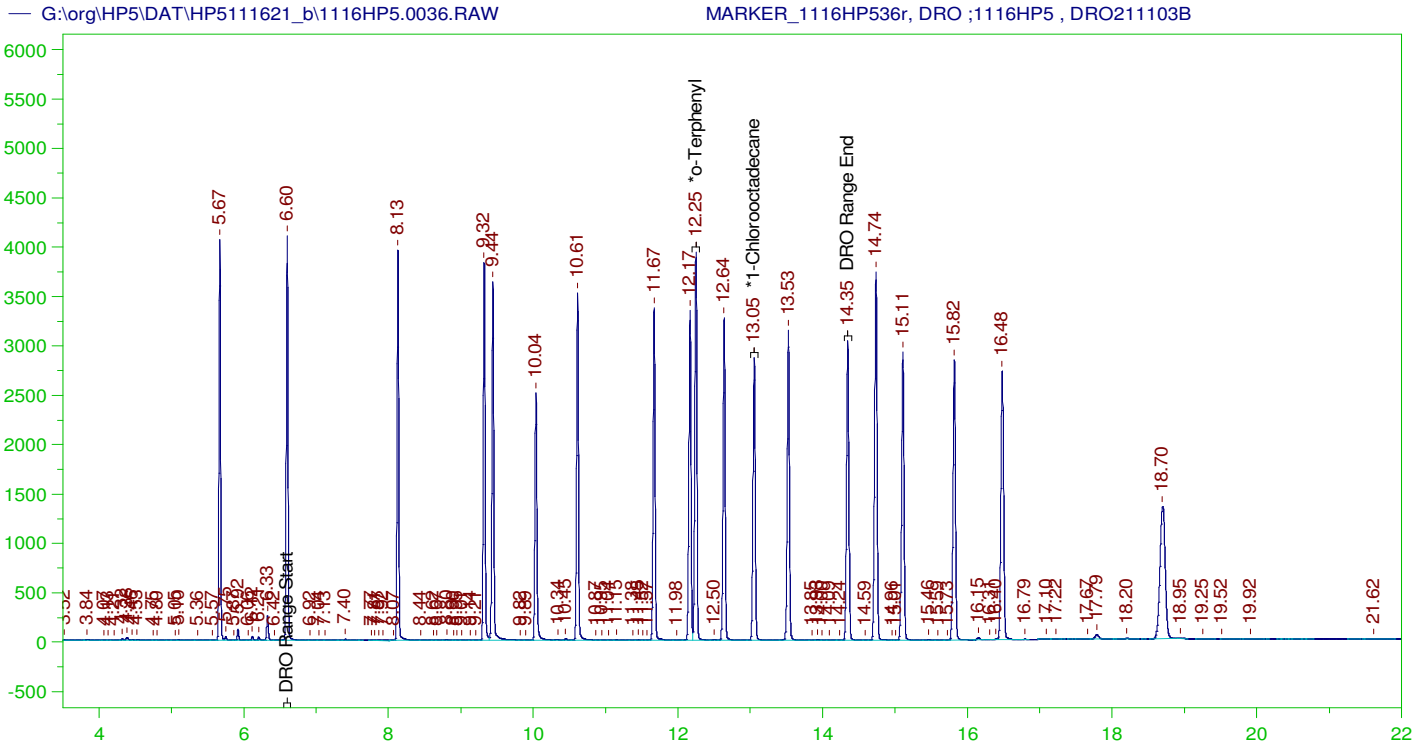
DRO Area: 2.621042E+08 DRO Amount: 8359.73
 TEH Area: 2.728118E+08 TEH Amount: 8701.245

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0022.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8701.25	58.01	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.252	200.	203.397	101.7	85-115
*1-Chlorooctadecane	13.087	200.	37.319	18.66	85-115





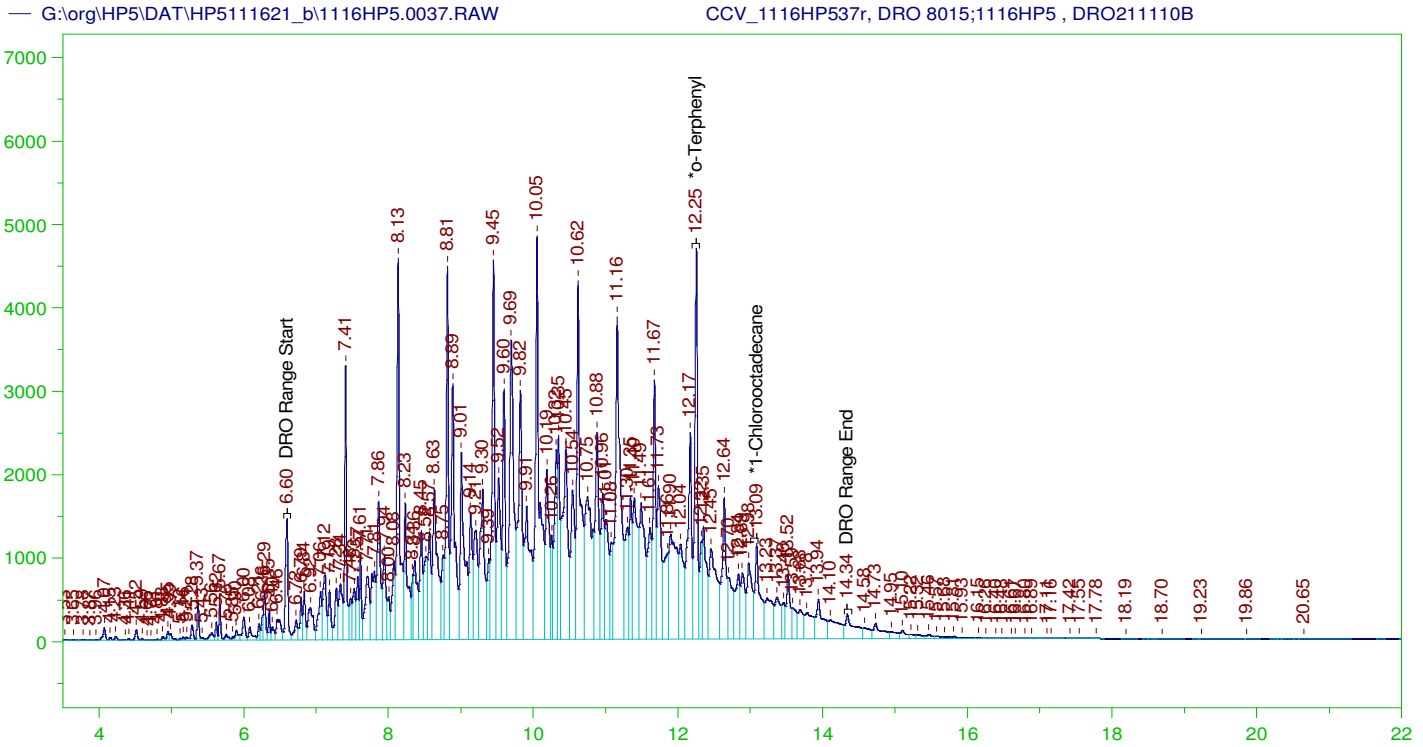
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MARKER_1116HP536r, DRO ;1116HP5 , DRO211103B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0036.RAW
 Date & Time Acquired: 11/17/2021 10:39:08 AM
 Method File: G:\Org\HP5\Methods\DC_8015-24-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.248	.2	.213	106.29
*1-Chlorooctadecane	13.052	.2	.172	85.89

DRO Area: 7.186952E+07 DRO Amount: 2.292255
 TEH Area: 1.160637E+08 TEH Amount: 3.701814



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1116HP537r, DRO 8015;1116HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0037.RAW
 Date & Time Acquired: 11/17/2021 11:21:50 AM
 Method File: G:\Org\HP5\Methods\DC_8015-24-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.253	200.	339.002	169.5
*1-Chlorooctadecane	13.088	200.	161.991	81.

DRO Area: 4.72038E+08 DRO Amount: 15055.5
 TEH Area: 4.885571E+08 TEH Amount: 15582.37

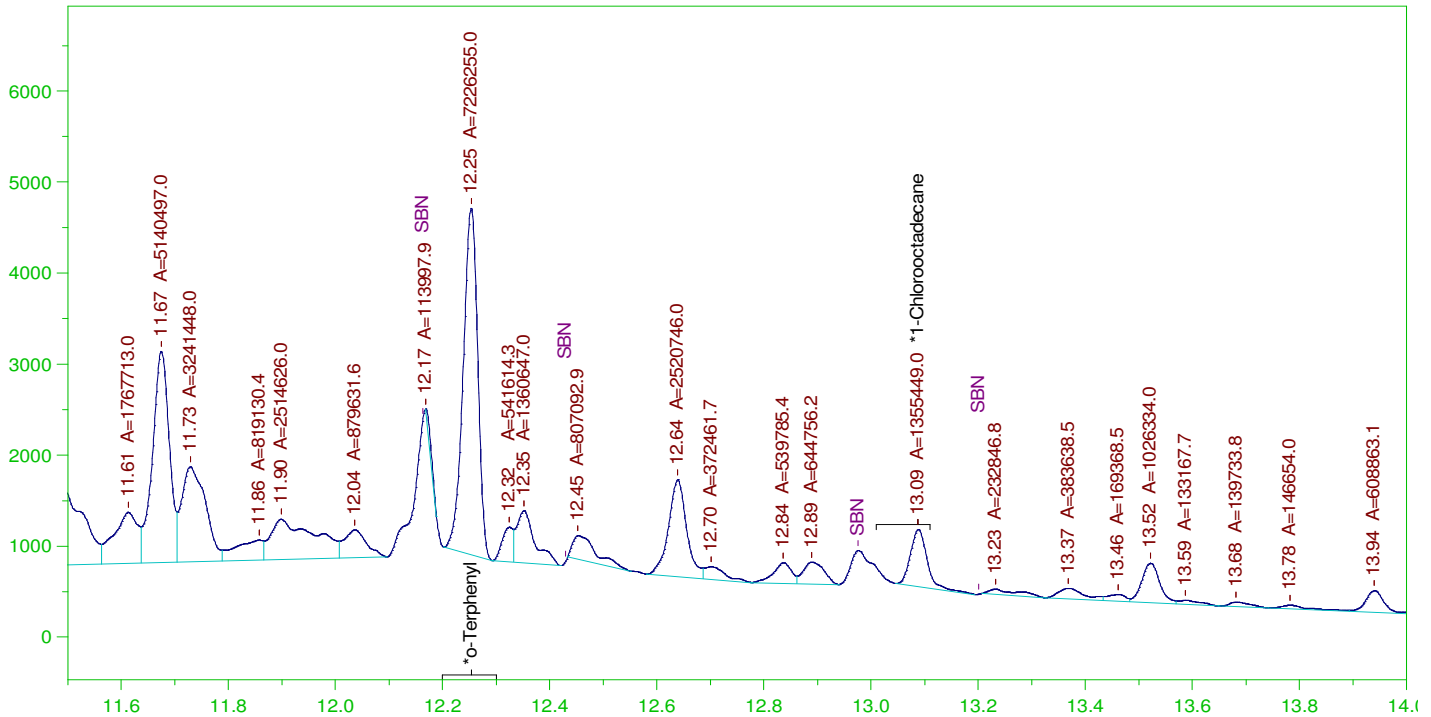
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0037.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15582.37	103.88	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.253	200.	339.002	169.5	85-115
*1-Chlorooctadecane	13.088	200.	161.991	81.	85-115

G:\org\HP5\DAT\HP5111621_b\1116HP5.0037.RAW

CCV_1116HP537r, DRO 8015;1116HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1116HP537r, DRO 8015;1116HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0037.RAW
 Date & Time Acquired: 11/17/2021 11:21:50 AM
 Method File: G:\Org\HP5\Methods\DS_8015-24-IC-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

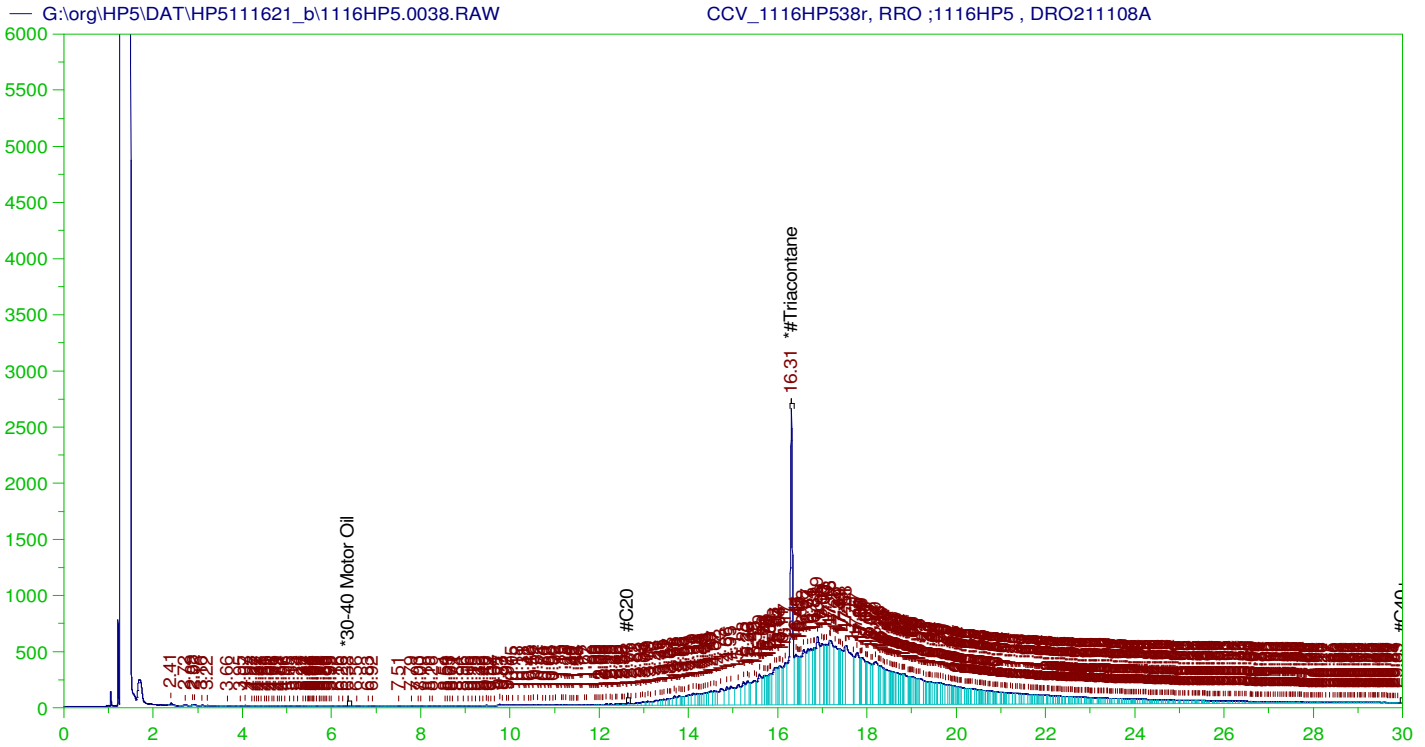
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.253	200.	203.504	101.75
*1-Chlorooctadecane	13.088	200.	38.172	19.09

DRO Area: 2.627476E+08 DRO Amount: 8380.251
 TEH Area: 2.733318E+08 TEH Amount: 8717.829

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0037.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8717.83	58.12	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.253	200.	203.504	101.75	85-115
*1-Chlorooctadecane	13.088	200.	38.172	19.09	85-115



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1116HP538r, RRO ;1116HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0038.RAW
 Date & Time Acquired: 11/17/2021 12:05:13 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.305	500.	329.438	65.89	-

~~RRO~~ TEH(Oil Range) Area:1.312945E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4599.98

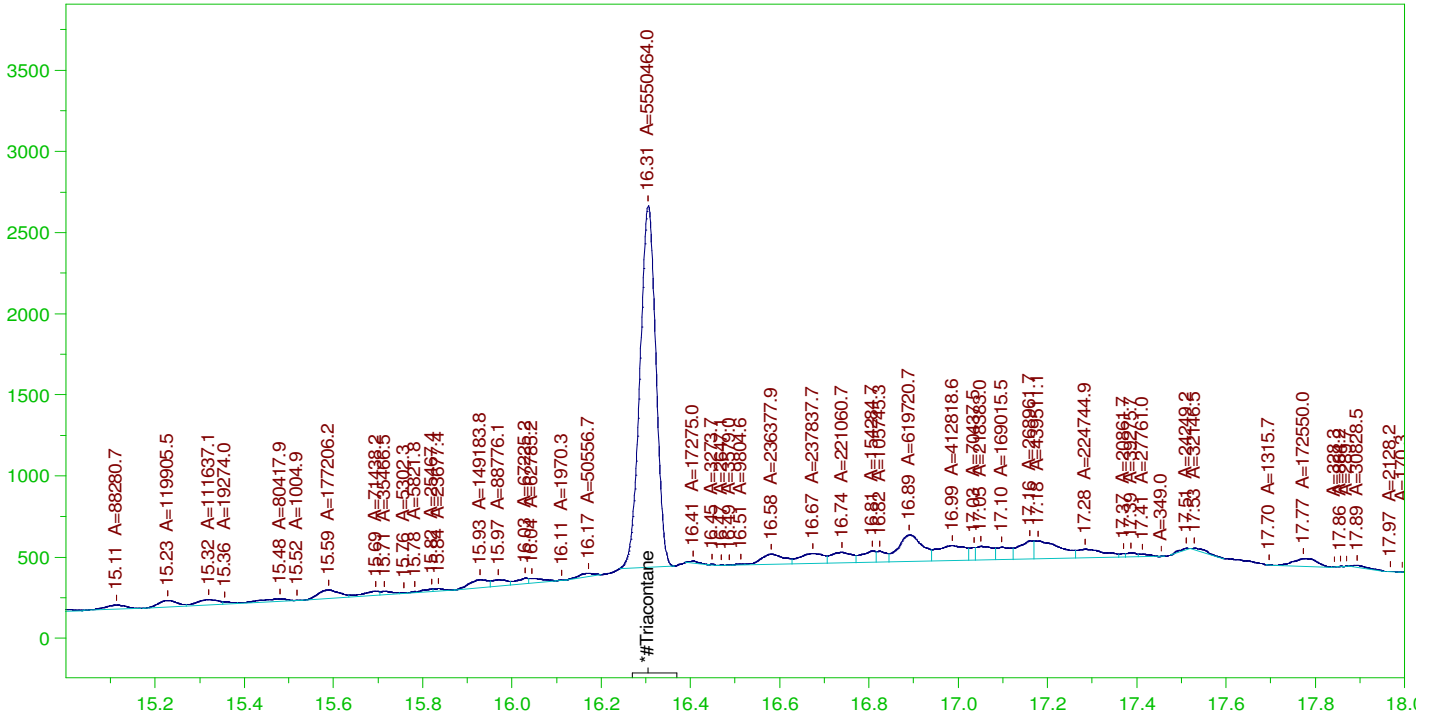
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0038.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS	
*30-40 Motor Oil	5000.	.023	.	75-125	
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.305	200.	329.438	164.72	75-125

AMN 11/19/2021

G:\org\HP5\DAT\HP5111621_b\1116HP5.0038.RAW

CCV_1116HP538r, RRO ;1116HP5 , DRO211108A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1116HP538r, RRO ;1116HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0038.RAW
 Date & Time Acquired: 11/17/2021 12:05:13 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

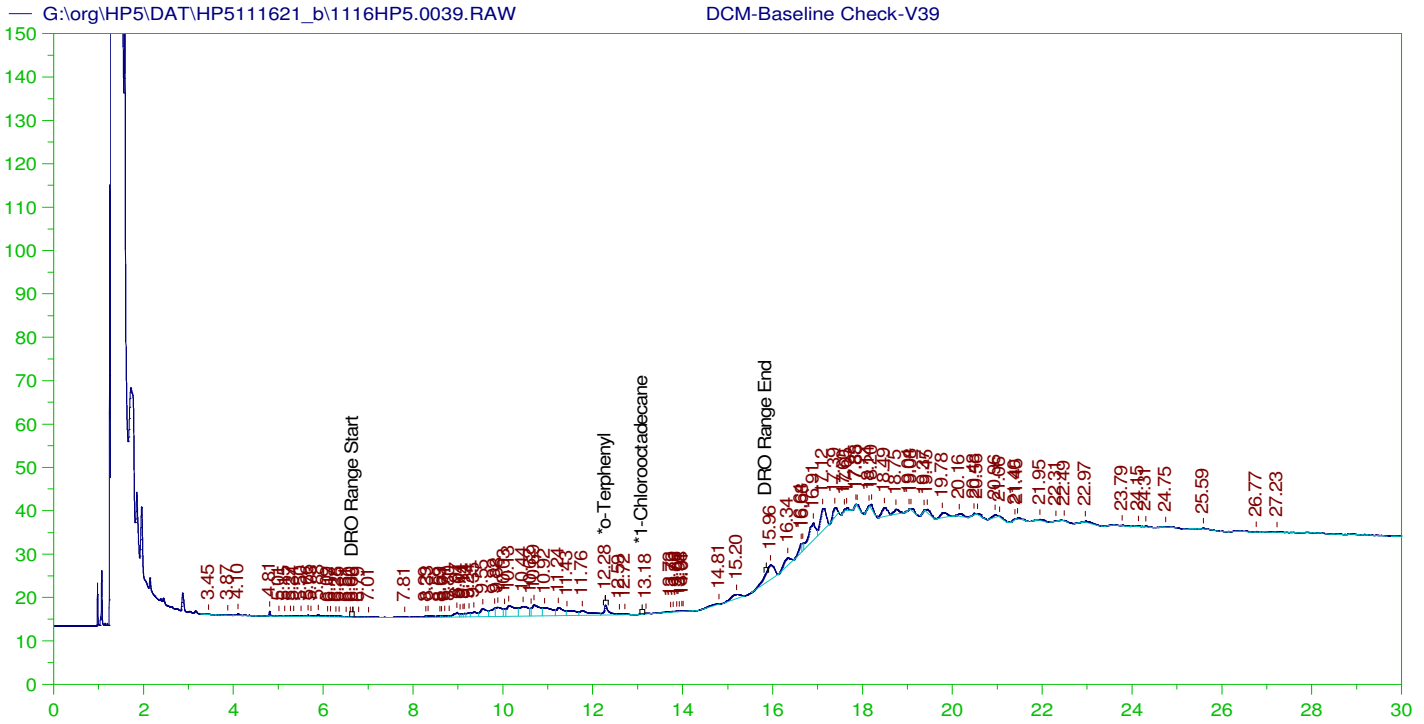
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.305	500.	191.858	38.37

RRO Area:6309214 RRO AMOUNT: 221.047

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0038.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.023	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.305	200.	191.858	95.93	75-125



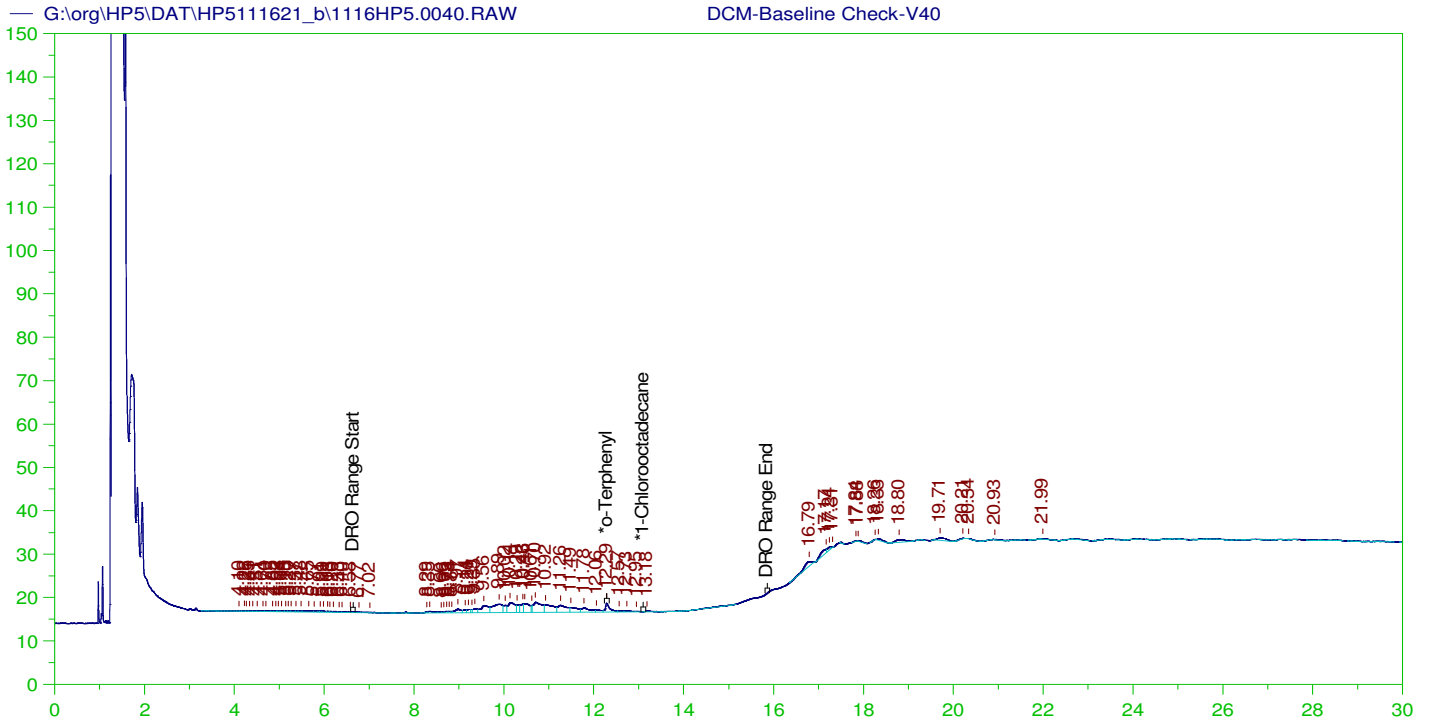
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V39
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0039.RAW
 Date & Time Acquired: 11/17/2021 12:47:51 PM
 Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.281	200.	.427	.21
*1-Chlorooctadecane	29.92	200.	.	.

DRO Area:313211 DRO Amount: 9.989763
 TEH Area:637212.6 TEH Amount: 20.32369



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V40
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0040.RAW
 Date & Time Acquired: 11/17/2021 1:30:55 PM
 Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.286	200.	.412	.21	-
*1-Chlorooctadecane	29.954	200.	.	.	-

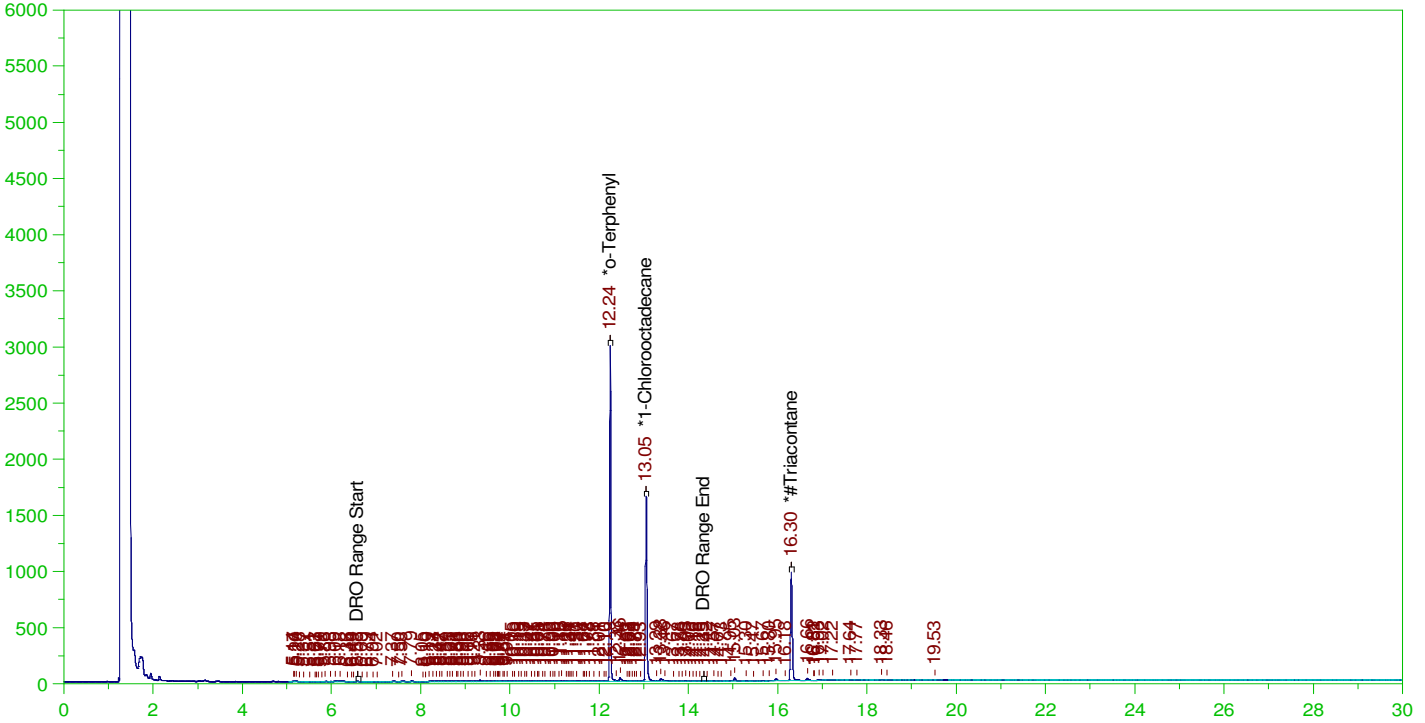
DRO Area:271576.1 DRO Amount: 8.661834
 TEH Area:374770.6 TEH Amount: 11.95319

ERH1718 (RHMW11 Zone 5)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0041.RAW

B21111290-001B ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111290-001B ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0041.RAW
Date & Time Acquired: 11/17/2021 2:13:20 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IC-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.244	.19	.154	80.7	-
*1-Chlorooctadecane	13.049	.19	.101	52.79	-
*#Triacontane	16.303	.19	.086	45.06	-

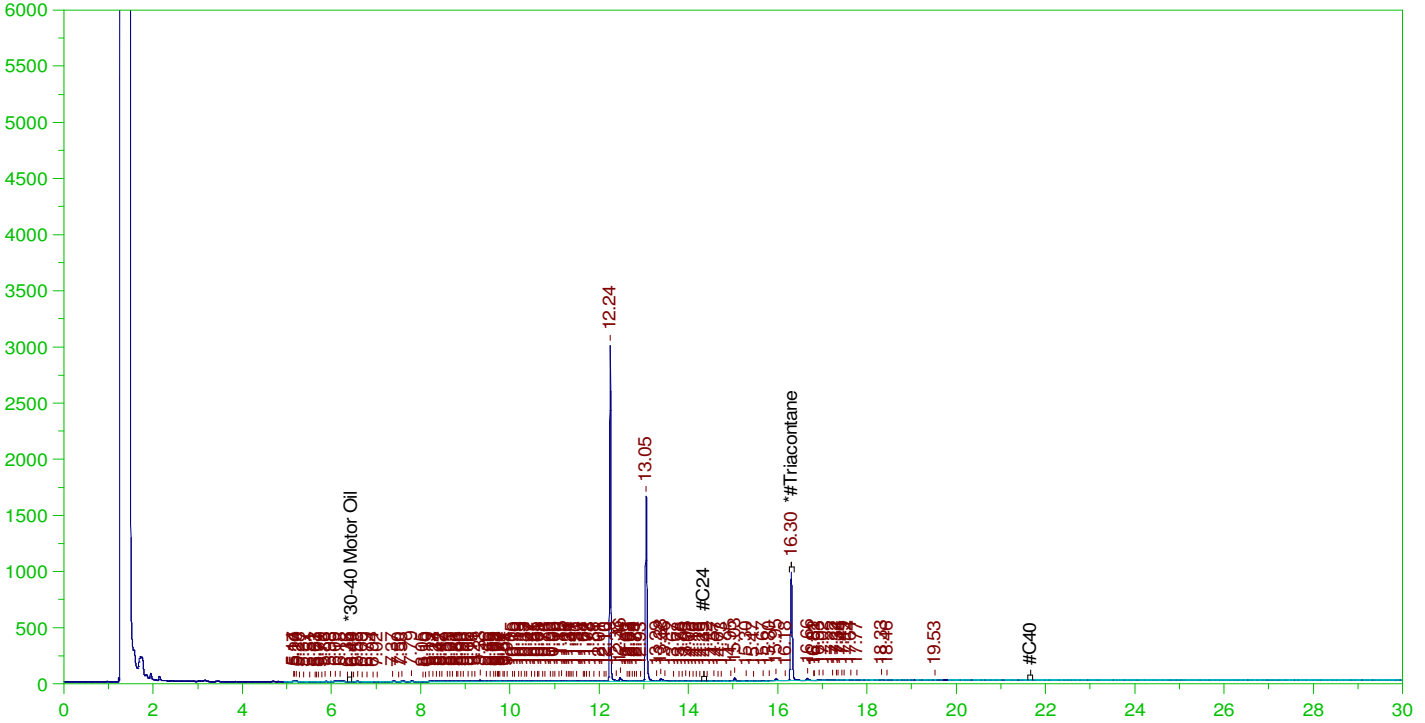
DRO Area: 849293.4 DRO Amount: 2.579804E-02
TEH Area: 1260820 TEH Amount: 3.829851E-02

ERH1718 (RHMW11 Zone 5)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0041.RAW

B21111290-001B ; 1116HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111290-001B ; 1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0041.RAW
Date & Time Acquired: 11/17/2021 2:13:20 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AE-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE-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: 14.3 to 21.71

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.303	.476	.086	18.05

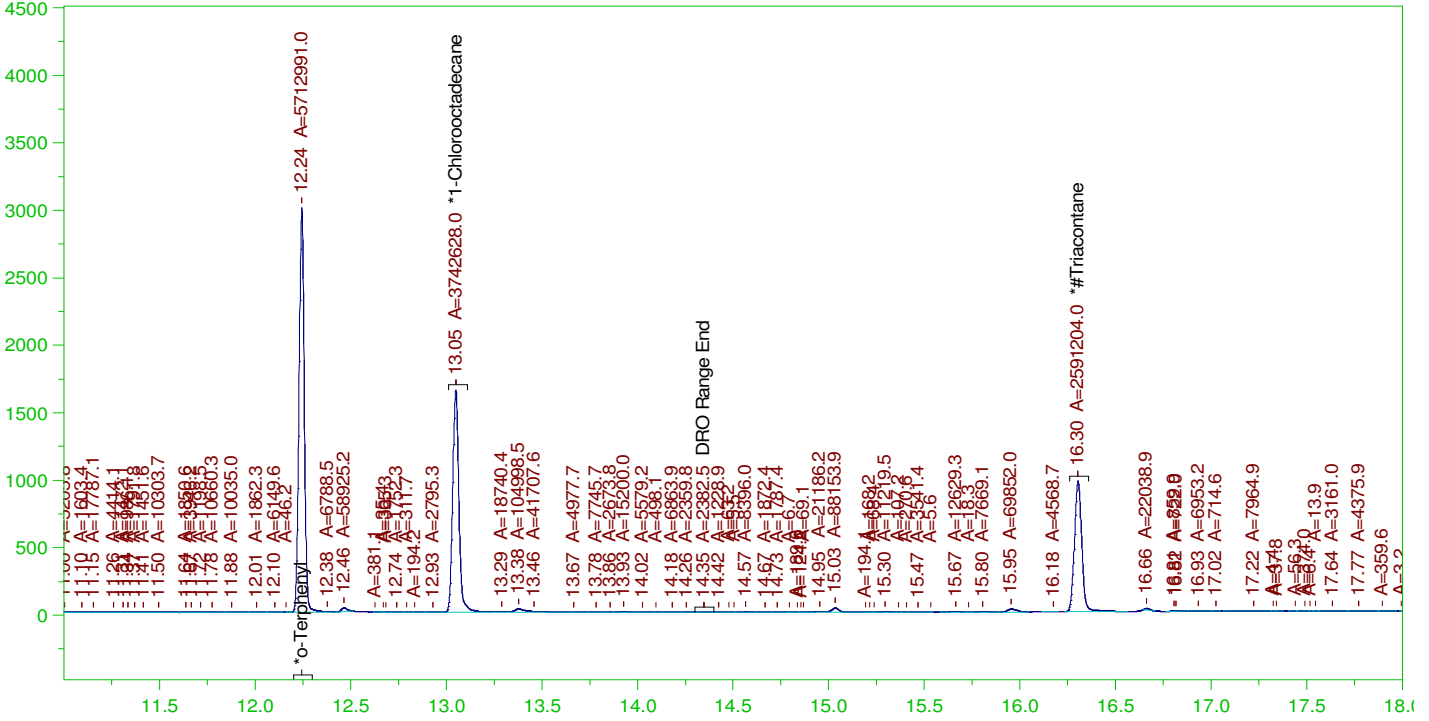
RRO Area:384719.8 RRO AMOUNT: 1.283703E-02

ERH1718 (RHMW11 Zone 5)

Batch ID: 161348

G:\Org\HP5\DAT\HP5111621_b\1116HP5.0041.RAW

B21111290-001B ; 1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111290-001B ; 1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\Org\HP5\DAT\HP5111621_b\1116HP5.0041.RAW
Date & Time Acquired: 11/17/2021 2:13:20 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IC-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.244	.19	.153	80.44	-
*1-Chlorooctadecane	13.049	.19	.1	52.7	-
*#Triacontane	16.303	.19	.085	44.78	-

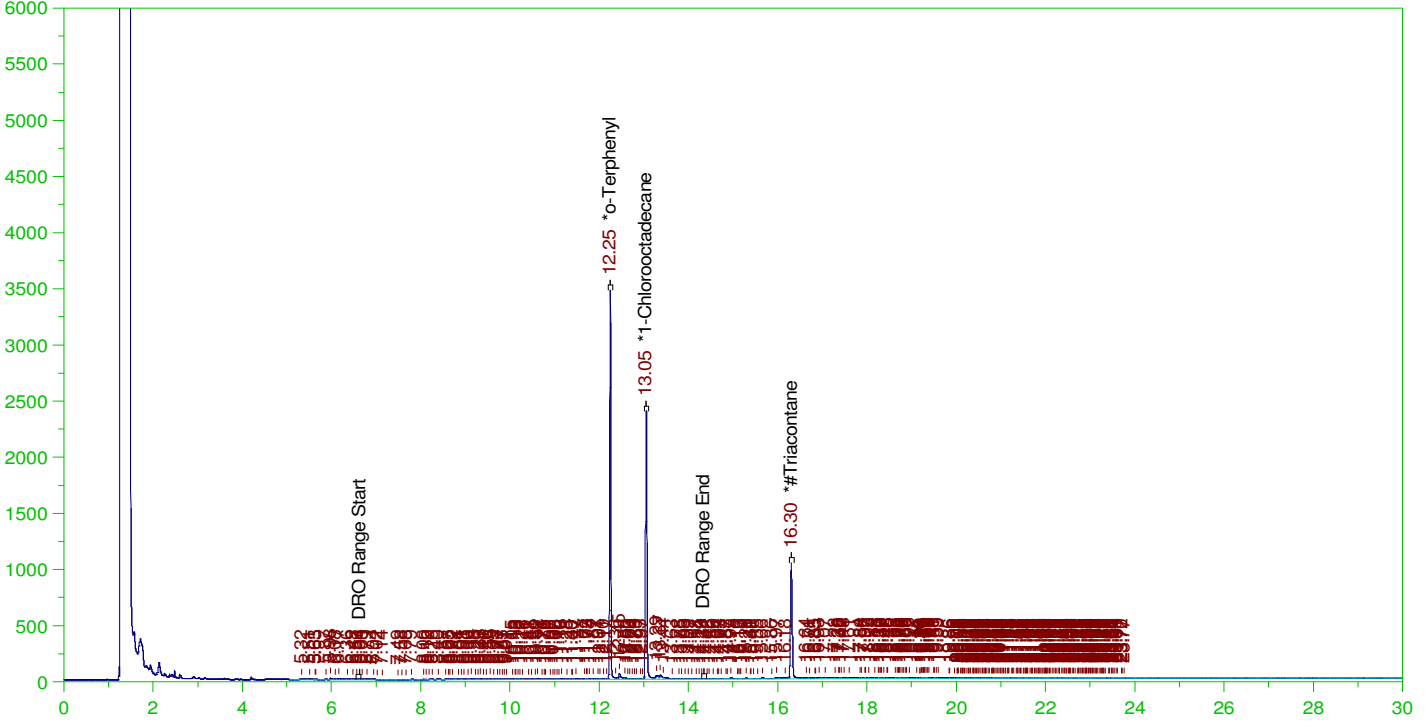
DRO Area: 698142.6 DRO Amount: 0.0212067
TEH Area: 1118491 TEH Amount: 3.397515E-02

ERH1905 (RHM2254-01)

G:\org\HP5\DAT\HP5111621_b\1116HP5.0042.RAW

Batch ID: 161348

B21111298-005A ;1116HP5 , \$HC-8015-DRO-W, RR



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-005A ;1116HP5 , \$HC-8015-DRO-W, RR
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0042.RAW
 Date & Time Acquired: 11/17/2021 2:55:53 PM
 Method File: G:\Org\HP5\Methods\DR_8015-111642-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.246	.19	.178	93.34	-
*1-Chlorooctadecane	13.051	.19	.139	72.88	-
*#Triacontane	16.303	.19	.093	48.92	-

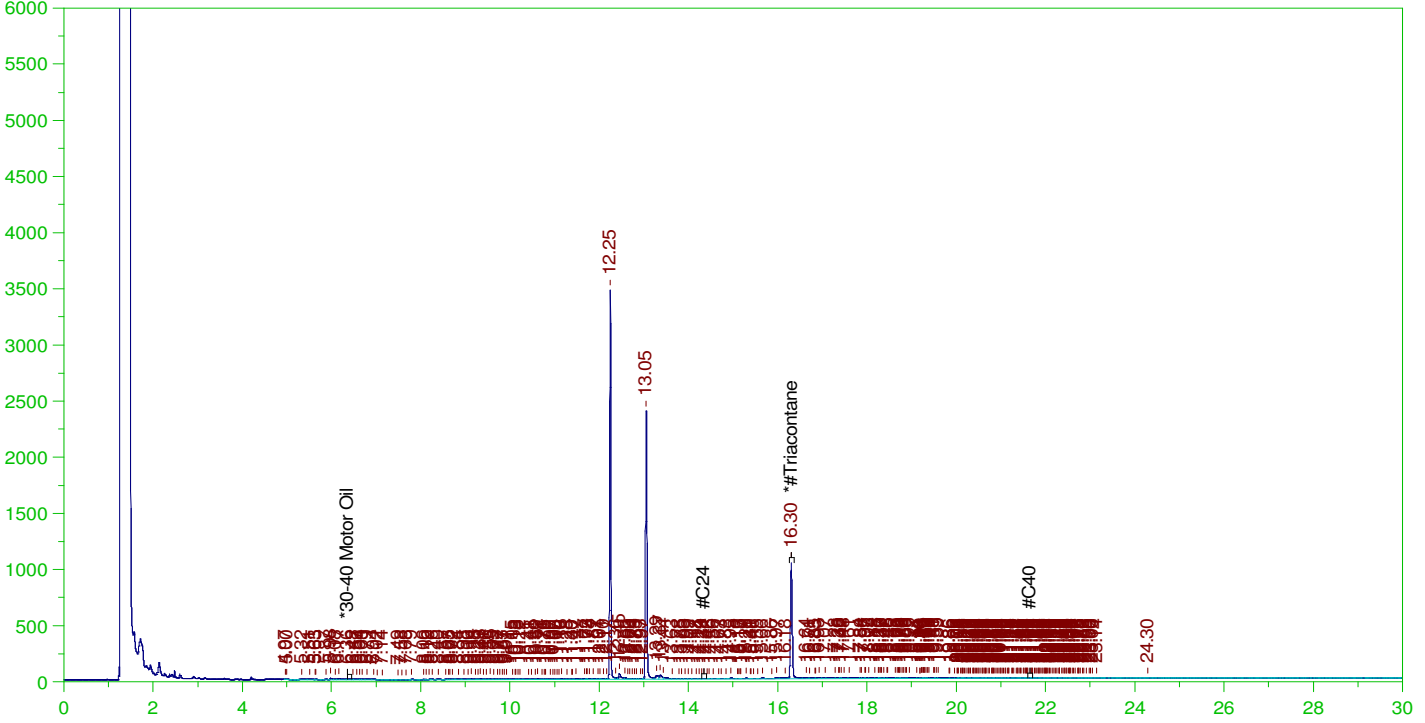
DRO Area:1427915 DRO Amount: 4.337419E-02
 TEH Area:4426156 TEH Amount: 0.1344484

ERH1905 (RHM2254-01)

G:\org\HP5\DAT\HP5111621_b\1116HP5.0042.RAW

Batch ID: 161348

B21111298-005A ;1116HP5 , \$HC-8015-DRO-W, RR



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-005A ;1116HP5 , \$HC-8015-DRO-W, RR
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0042.RAW
 Date & Time Acquired: 11/17/2021 2:55:53 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-111642-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE-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: 14.3 to 21.71

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.303	.476	.093	19.5

RRO Area:2375659

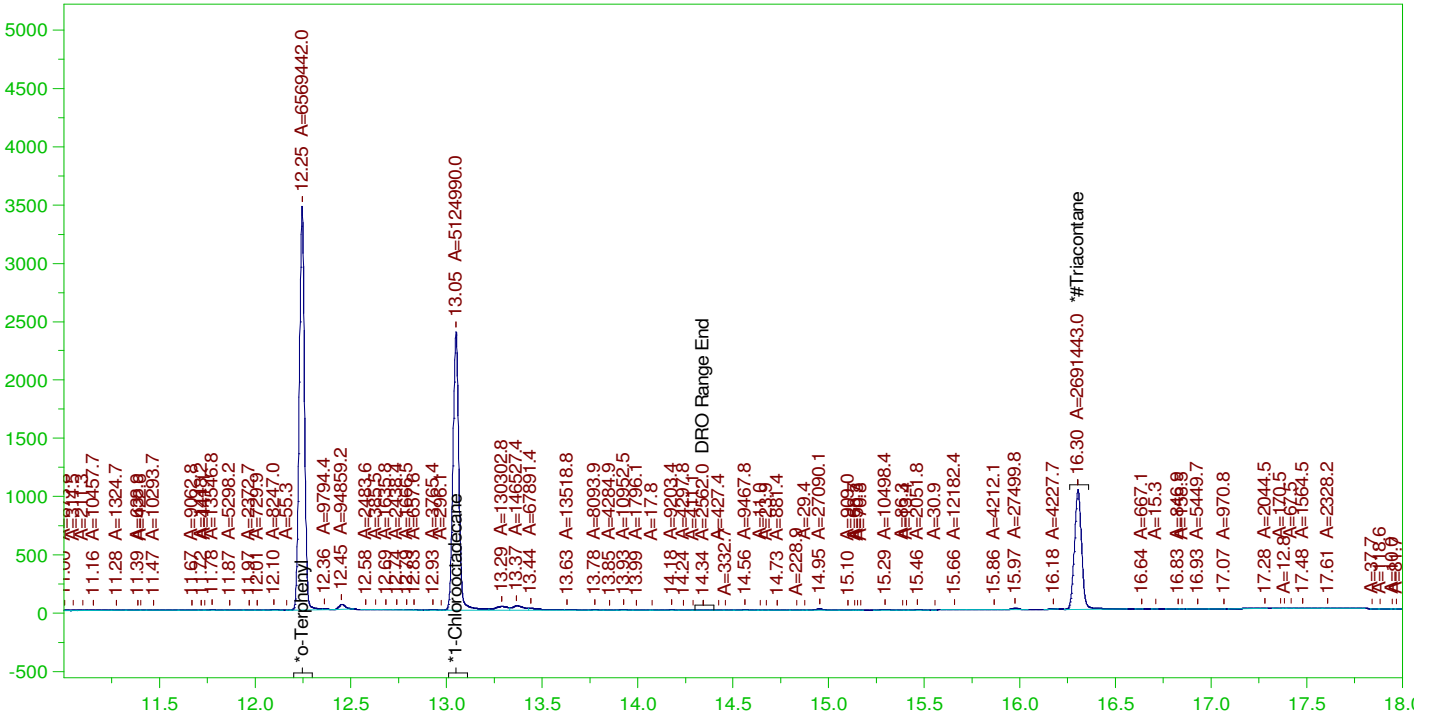
RRO AMOUNT: 7.926913E-02

ERH1905 (RHM2254-01)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0042.RAW

B21111298-005A ; 1116HP5 , \$HC-8015-DRO-W, RR



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-005A ; 1116HP5 , \$HC-8015-DRO-W, RR
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0042.RAW
 Date & Time Acquired: 11/17/2021 2:55:53 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-IC-L#.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.246	.19	.176	92.5
*1-Chlorooctadecane	13.051	.19	.137	72.16
*#Triacantane	16.303	.19	.089	46.52

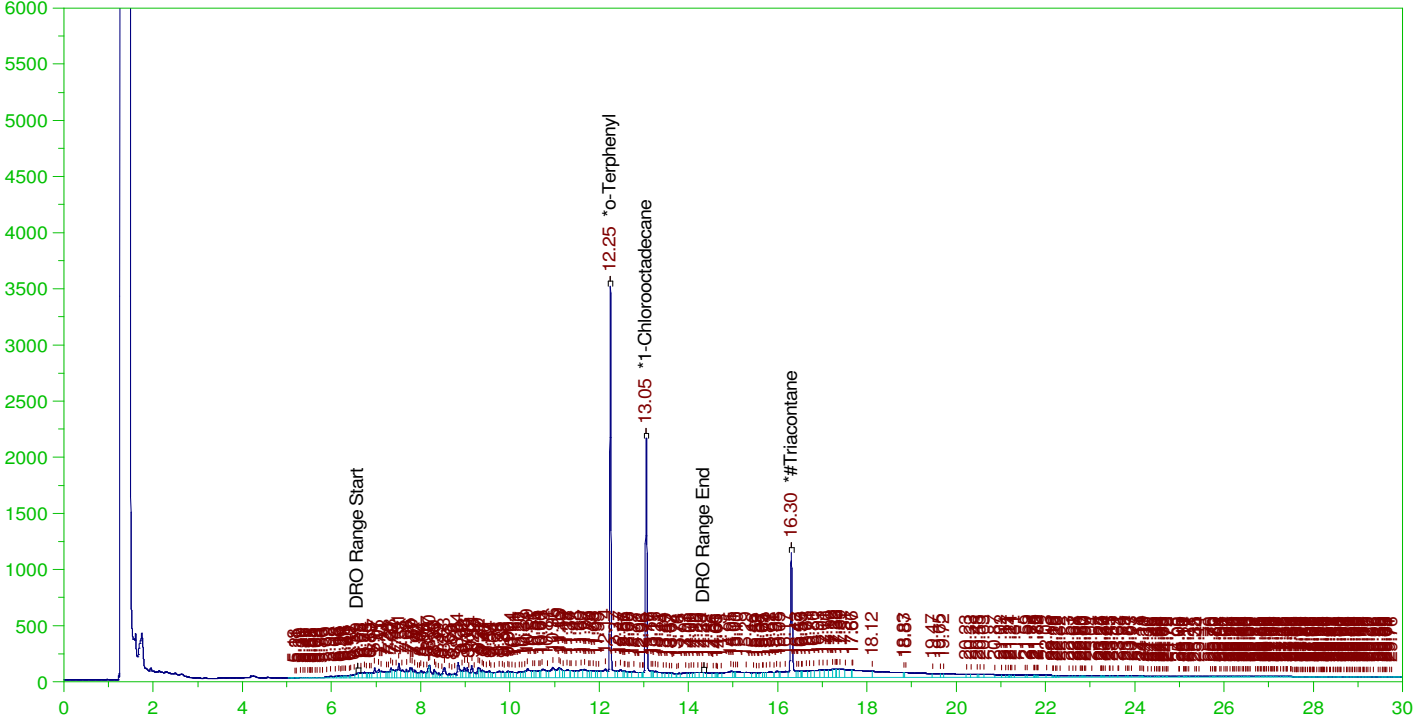
DRO Area: 855940.4 DRO Amount: 2.599995E-02
 TEH Area: 1331926 TEH Amount: 4.045842E-02

ERH1893 (RHMW01R)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0044.RAW

B21111298-001A ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-001A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0044.RAW
Date & Time Acquired: 11/17/2021 4:20:33 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 900 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.249	.222	.217	97.46	-
*1-Chlorooctadecane	13.051	.222	.151	68.06	-
*#Triacontane	16.303	.222	.124	55.97	-

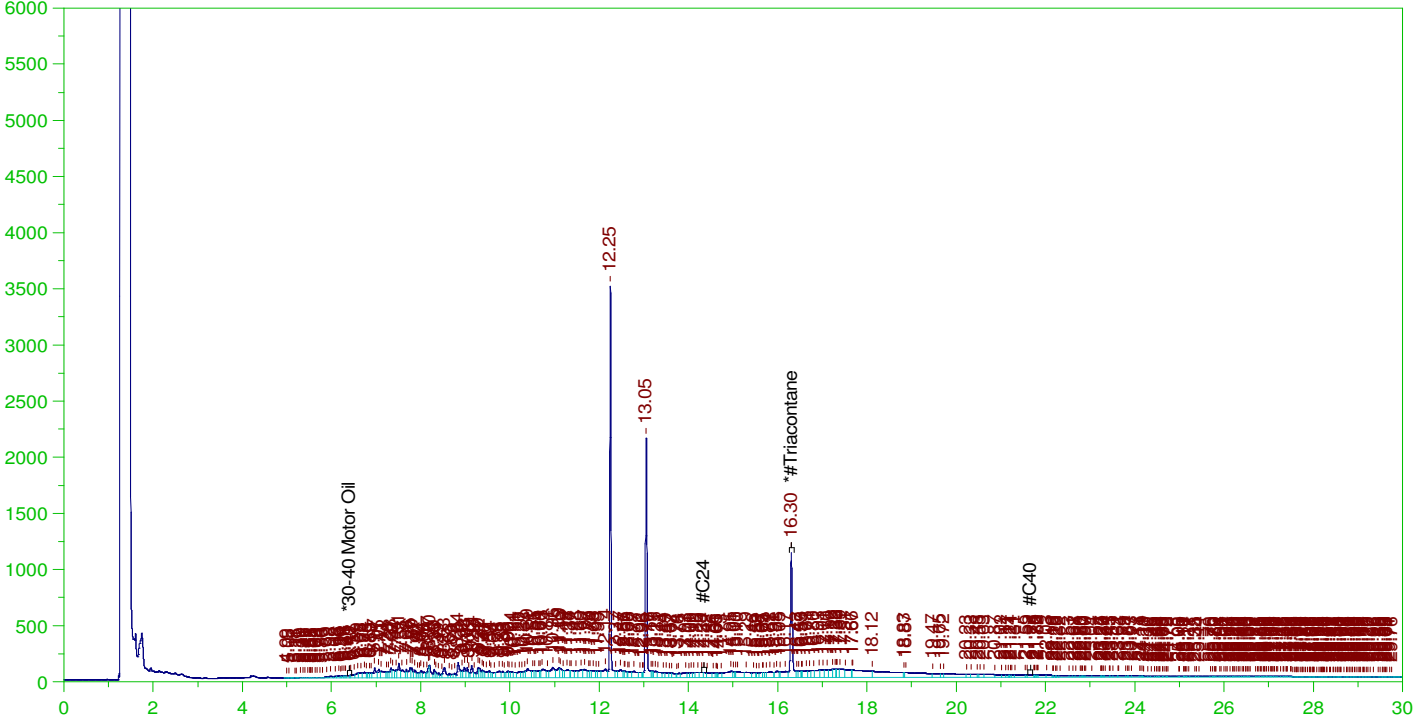
DRO Area: 2.481702E+07 DRO Amount: 0.8794787
TEH Area: 4.733594E+07 TEH Amount: 1.677516

ERH1893 (RHMW01R)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0044.RAW

B21111298-001A ;1116HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-001A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0044.RAW
Date & Time Acquired: 11/17/2021 4:20:33 PM
Method File: G:\Org\HP5\Methods\D3_OROS-AE-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE-SAMP.CAL
Sample Weight: 900 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.3 to 21.71

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.303	.556	.124	22.39	-

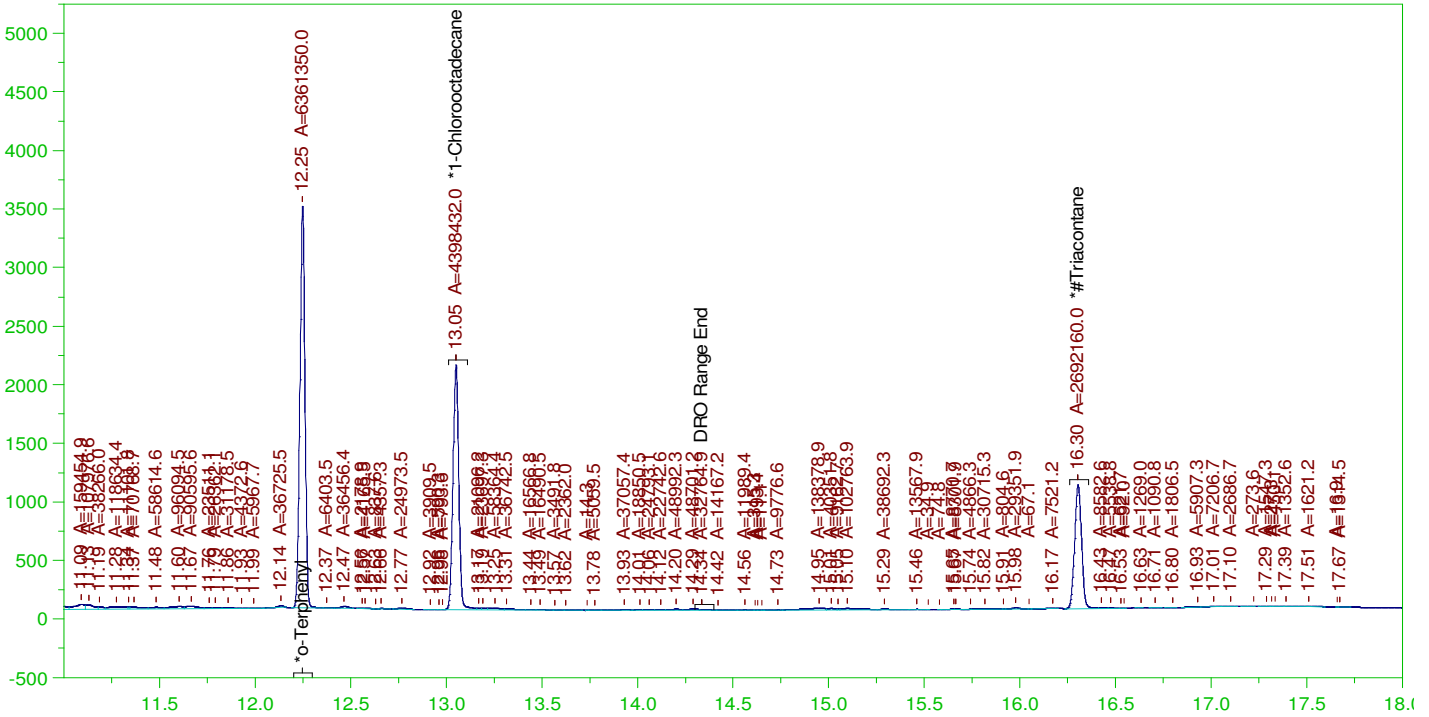
RRO Area:1.822372E+07 RRO AMOUNT: 0.7094209

ERH1893 (RHMW01R)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0044.RAW

B21111298-001A ; 1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-001A ; 1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0044.RAW
Date & Time Acquired: 11/17/2021 4:20:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IC-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 900 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

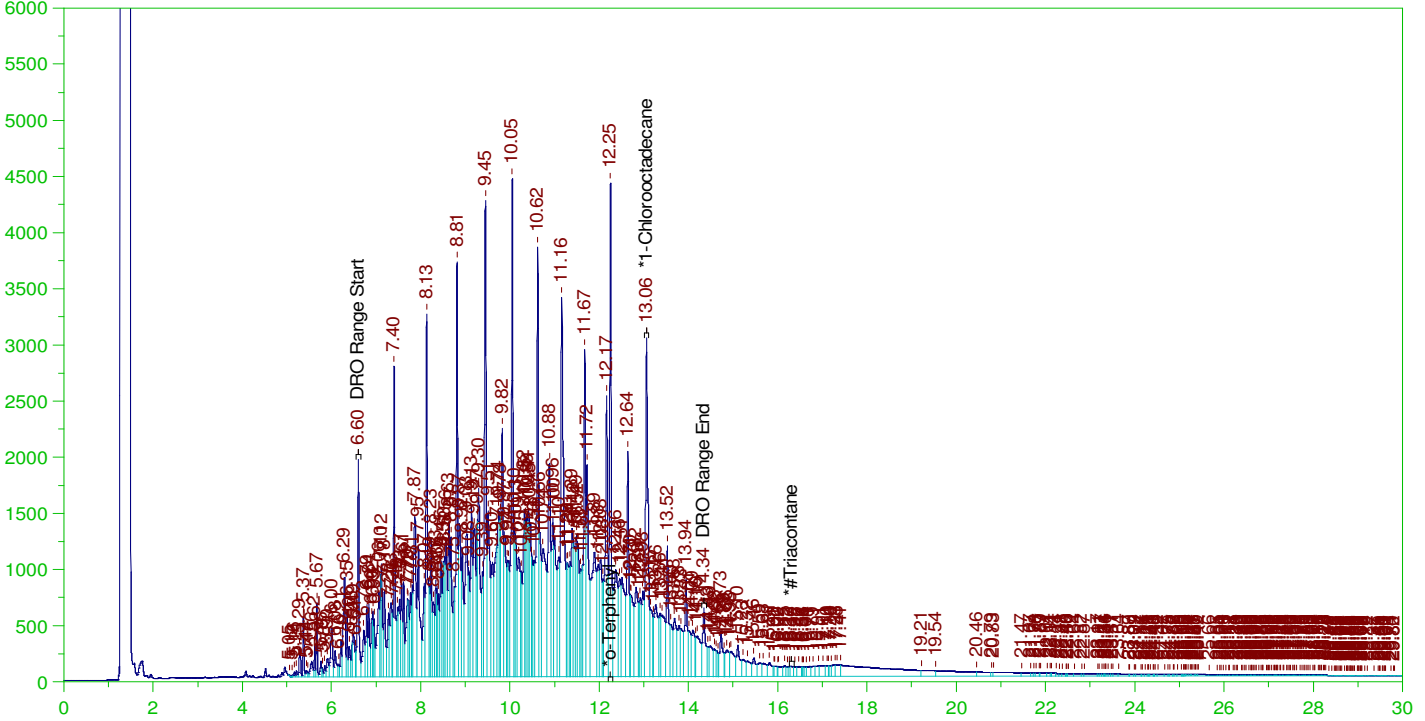
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.249	.222	.199	89.57	-
*1-Chlorooctadecane	13.051	.222	.138	61.93	-
*#Triacontane	16.303	.222	.103	46.53	-

DRO Area: 9630394 DRO Amount: 0.341287
TEH Area: 1.108038E+07 TEH Amount: 0.3926725

Batch ID: 161348

B21111298-001AMS ;1116HP5 ,

G:\org\HP5\DAT\HP5111621_b\1116HP5.0045.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

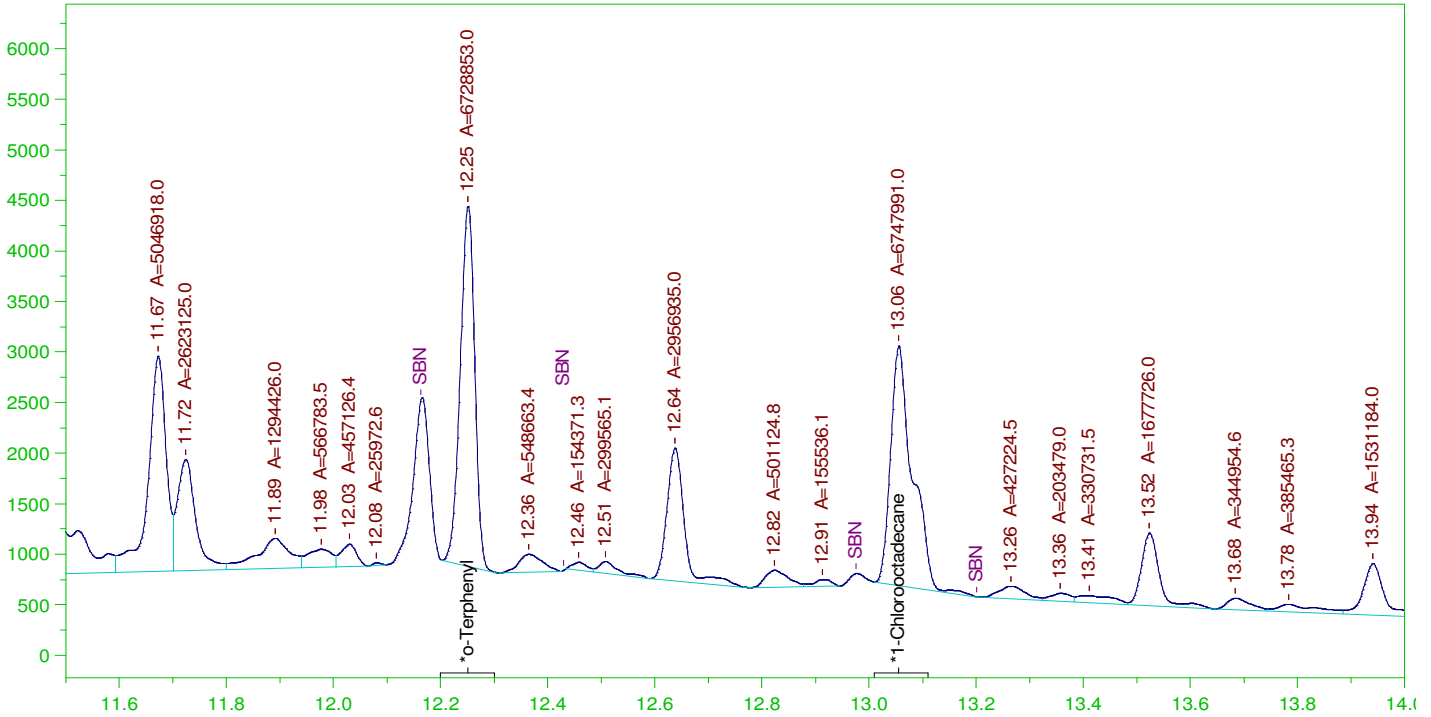
Sample Name: B21111298-001AMS ;1116HP5 ,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0045.RAW
Date & Time Acquired: 11/17/2021 5:03:23 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 900 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.251	.222	.375	168.96	-
*1-Chlorooctadecane	13.056	.222	.362	162.92	-
*#Triacontane	16.303	.222	.016	7.35	-

DRO Area:4.272157E+08 DRO Amount: 15.1399
TEH Area:4.846429E+08 TEH Amount: 17.17503

Batch ID: 161348
G:\org\HP5\DAT\HP5111621_b\1116HP5.0045.RAW B21111298-001AMS ;1116HP5 ,



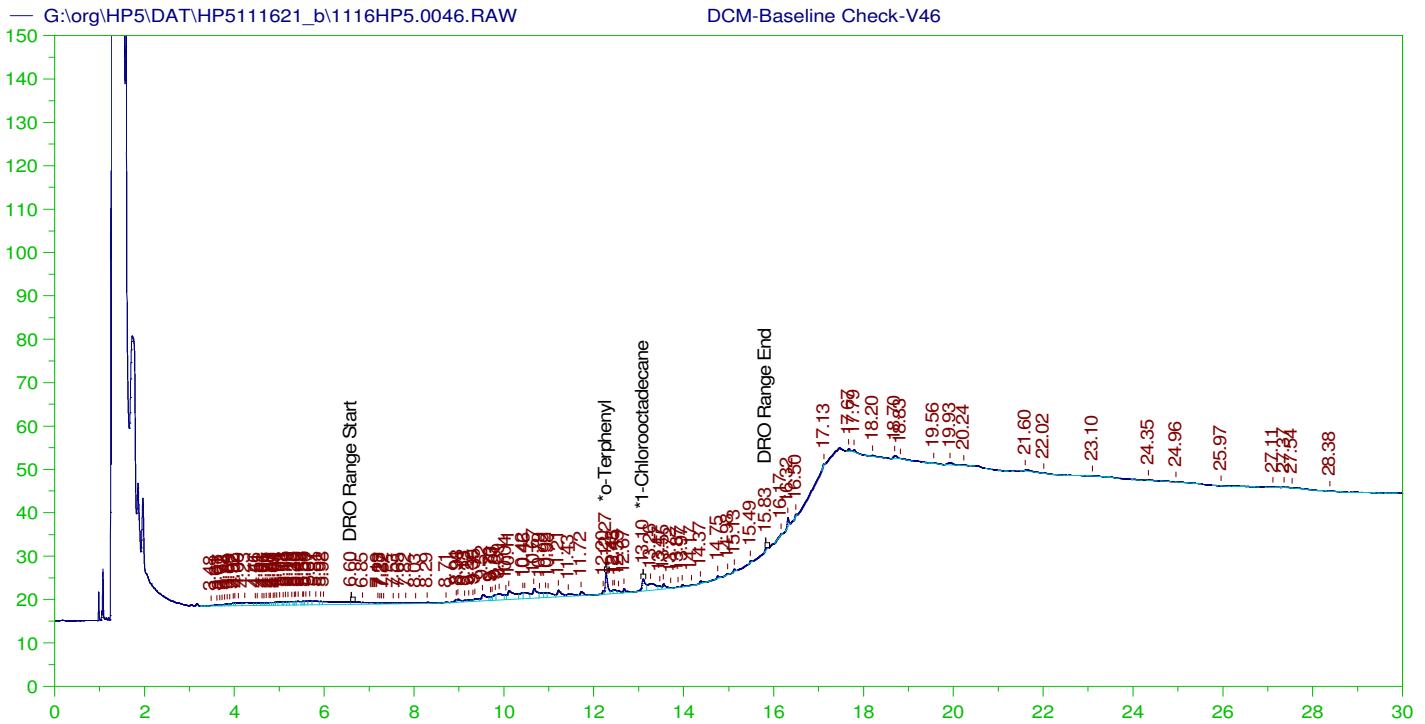
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-001AMS ;1116HP5 ,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0045.RAW
Date & Time Acquired: 11/17/2021 5:03:23 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IC-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
Sample Weight: 900 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.251	.222	.211	94.75	-
*1-Chlorooctadecane	13.056	.222	.211	95.02	-

DRO Area: 2.001384E+08 DRO Amount: 7.09261
TEH Area: 2.152074E+08 TEH Amount: 7.626634



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V46
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0046.RAW
 Date & Time Acquired: 11/17/2021 5:46:30 PM
 Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.273	200.	.517	.26	-
*1-Chlorooctadecane	13.096	200.	.442	.22	-

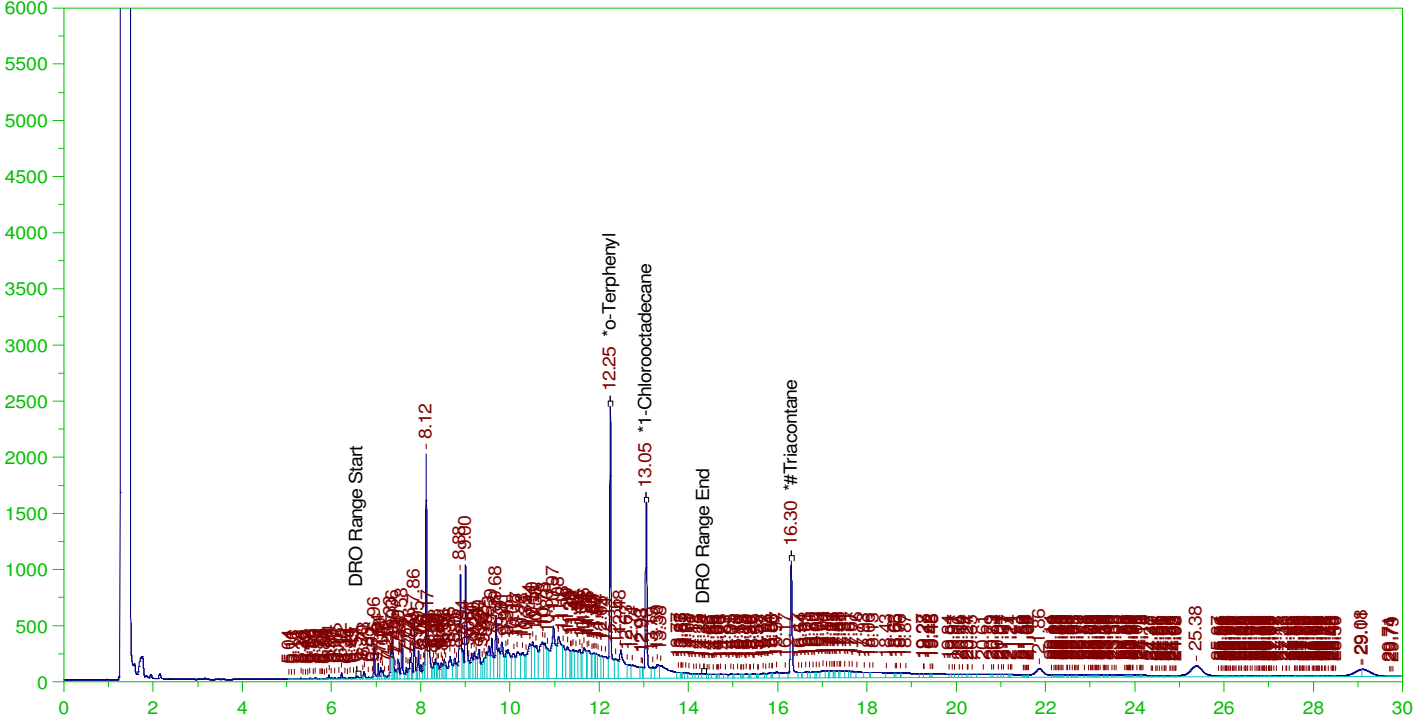
DRO Area: 242064.7 DRO Amount: 7.720576
 TEH Area: 409844.7 TEH Amount: 13.07187

ERH1896 (RHMW02)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0047.RAW

B21111298-002A ;1116HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-002A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0047.RAW
Date & Time Acquired: 11/17/2021 6:29:39 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.246	.192	.152	79.13	-
*1-Chlorooctadecane	13.05	.192	.108	56.39	-
*#Triacontane	16.301	.192	.106	55.17	-

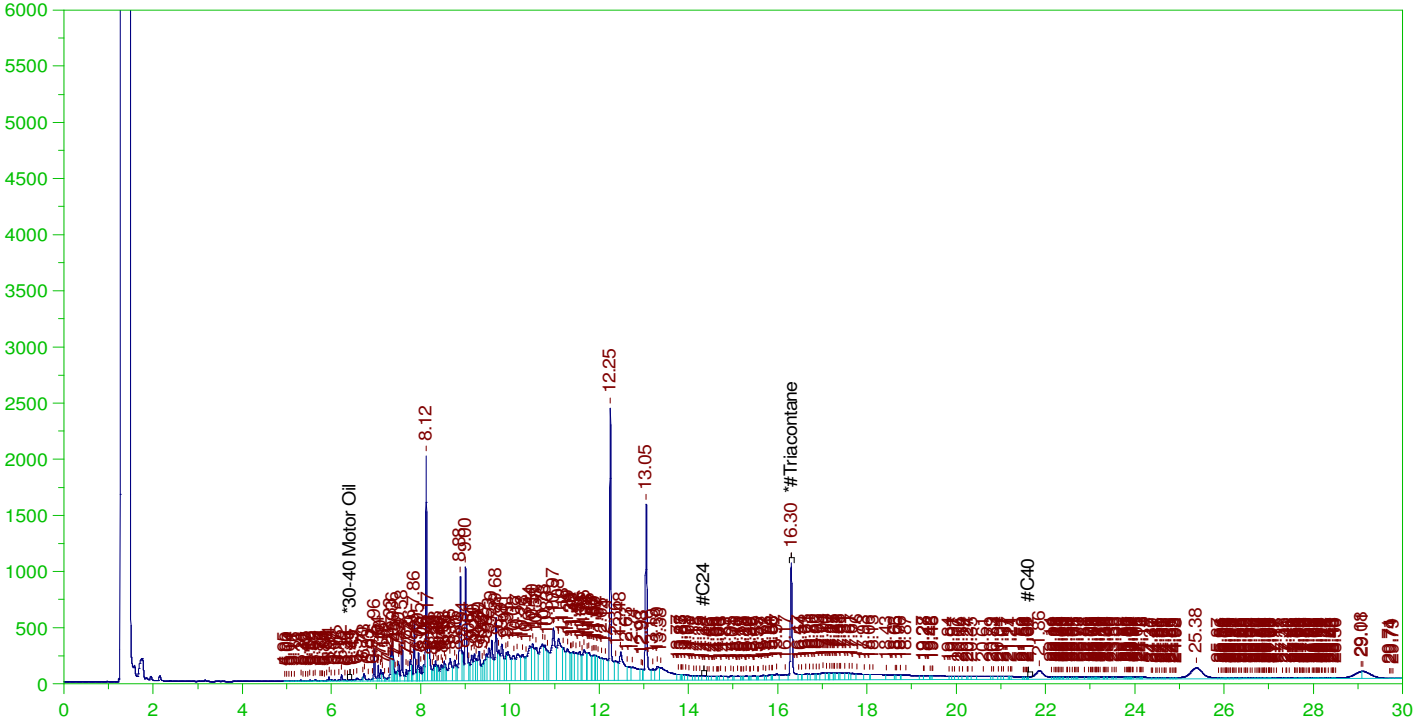
DRO Area: 7.950601E+07 DRO Amount: 2.438287
TEH Area: 1.044045E+08 TEH Amount: 3.201873

ERH1896 (RHMW02)

Batch ID: 161348

G:\org\HP5\DAT\HP5111621_b\1116HP5.0047.RAW

B21111298-002A ;1116HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-002A ;1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0047.RAW
Date & Time Acquired: 11/17/2021 6:29:39 PM
Method File: G:\Org\HP5\Methods\D3_OROS-AE-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE-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: 14.3 to 21.71

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.301	.481	.106	22.07

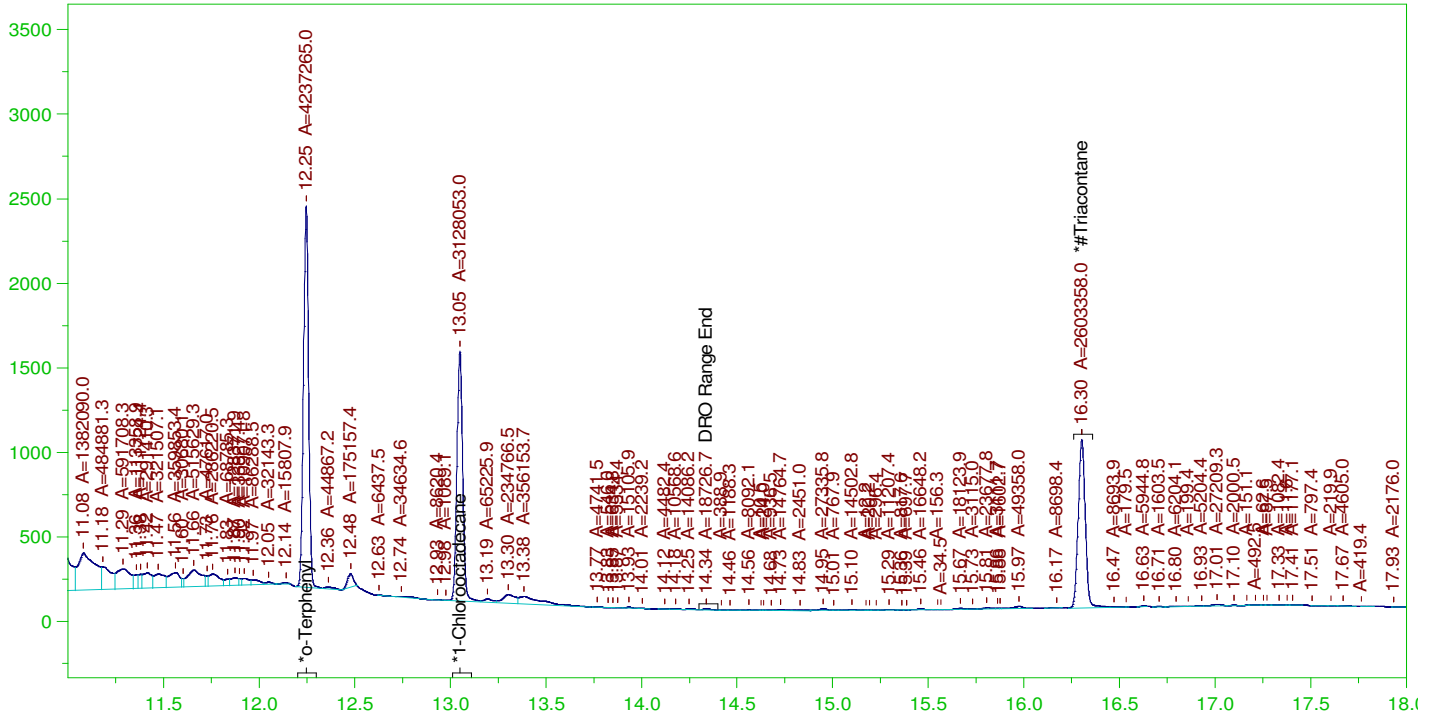
RRO Area:1.604728E+07 RRO AMOUNT: 0.5406017

ERH1896 (RHMW02)

Batch ID: 161348

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B21111298-002A ; 1116HP5 , \$HC-8015-DRO-W,



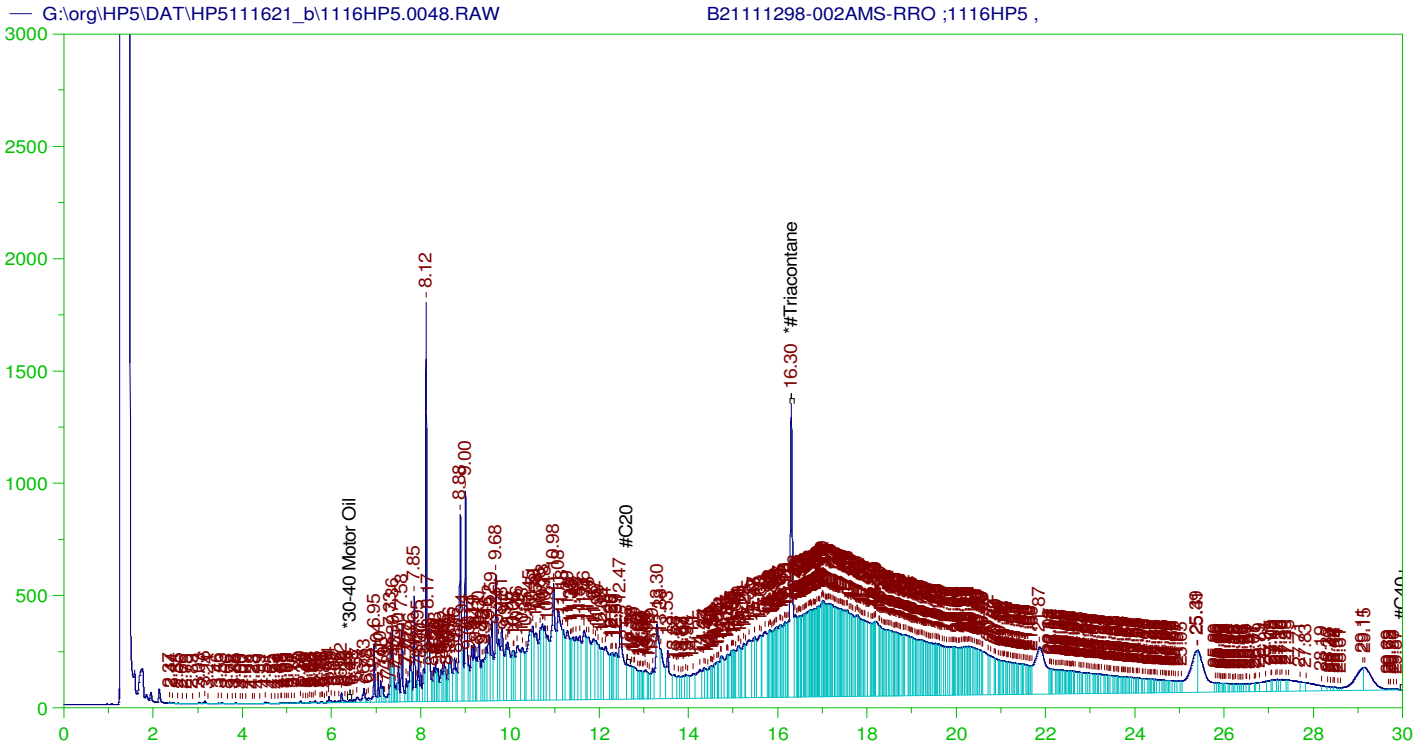
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-002A ; 1116HP5 , \$HC-8015-DRO-W,
Raw File: G:\Org\HP5\DAT\HP5111621_b\1116HP5.0047.RAW
Date & Time Acquired: 11/17/2021 6:29:39 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IC-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.246	.192	.115	59.66	-
*1-Chlorooctadecane	13.05	.192	.085	44.05	-
*#Triacontane	16.301	.192	.087	44.99	-

DRO Area: 3.808224E+07 DRO Amount: 1.167905
TEH Area: 4.108912E+07 TEH Amount: 1.26012



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-002AMS-RRO ;1116HP5 ,
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0048.RAW
 Date & Time Acquired: 11/17/2021 7:12:28 PM
 Method File: G:\Org\HP5\Methods\D3_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.CAL
 Sample Weight: 1040 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: 12.6 to 30.05

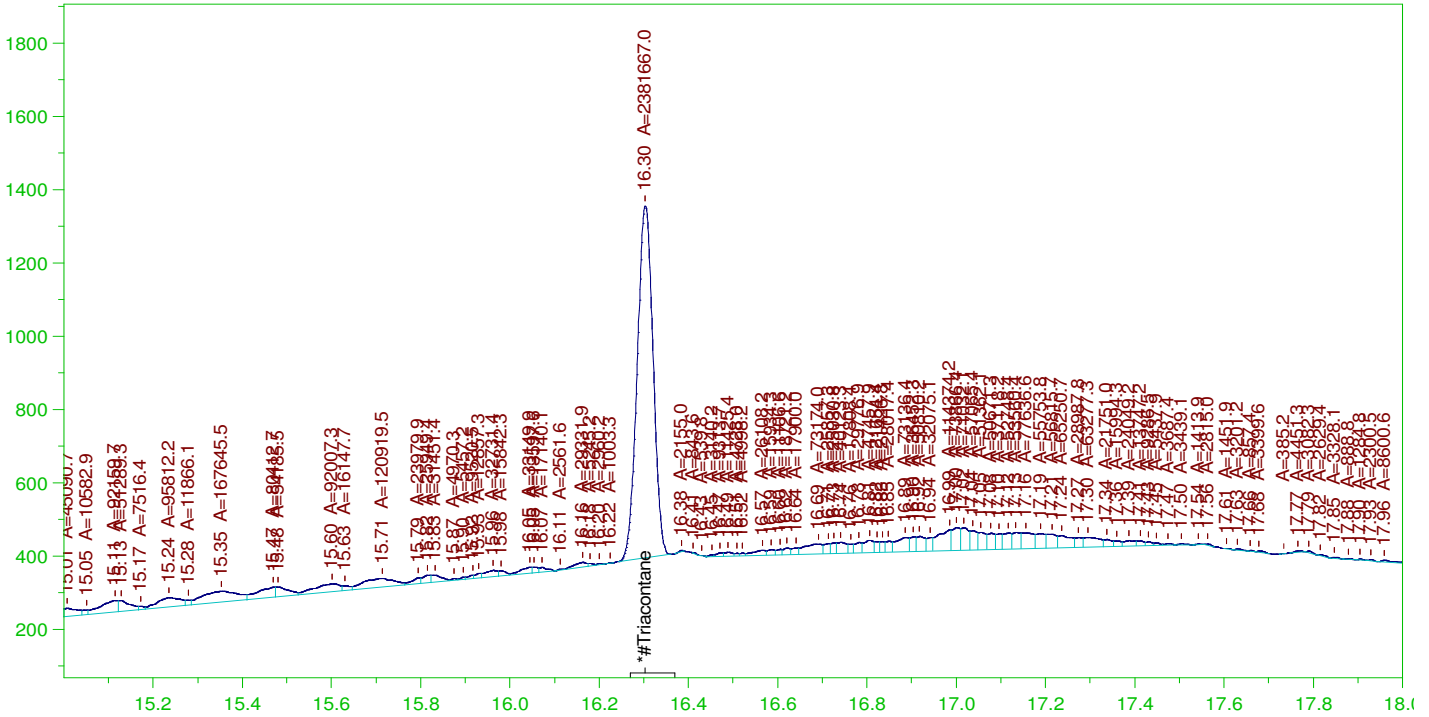
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.303	.481	.168	34.99	-

~~RRO~~ TEH(Oil Range) Area:1.569307E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 5.286693

AMN 11/19/2021

G:\org\HP5\DAT\HP5111621_b\1116HP5.0048.RAW

B21111298-002AMS-RRO ;1116HP5 ,



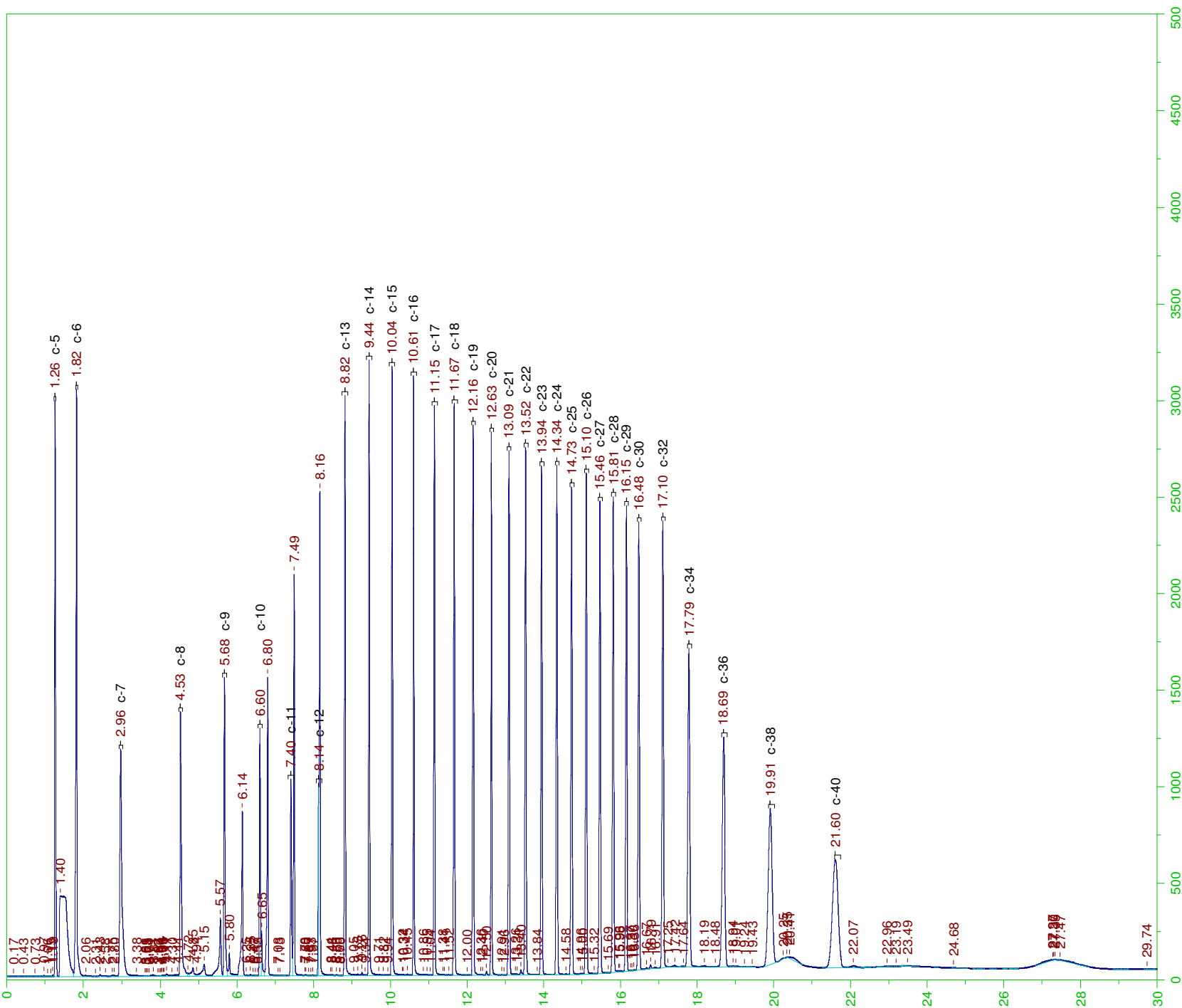
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-002AMS-RRO ;1116HP5 ,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0048.RAW
Date & Time Acquired: 11/17/2021 7:12:28 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AE-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

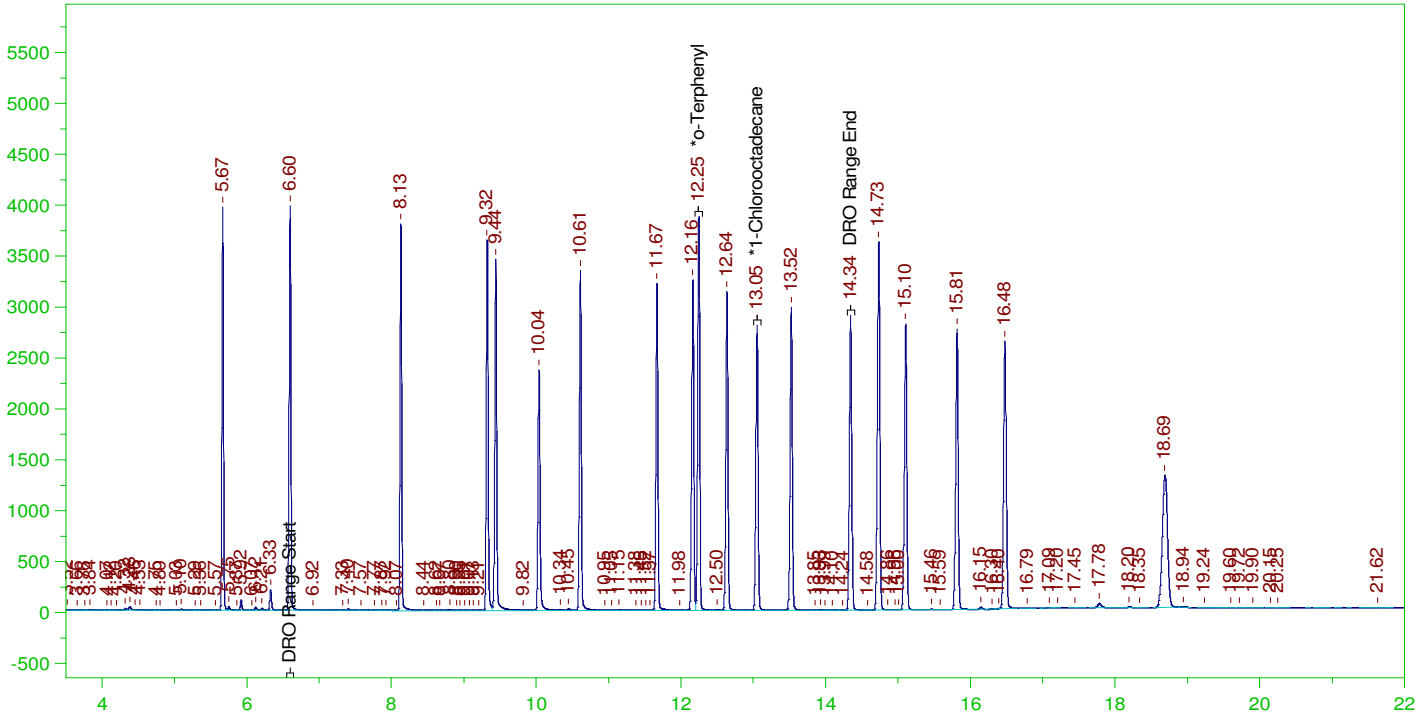
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.303	.481	.079	16.46

RRO Area:6597004 RRO AMOUNT: 0.2222403



G:\org\HP5\DAT\HP5111621_b\1116HP5.0050.RAW

MARKER_1116HP550r, DRO ;1116HP5 , DRO211103B



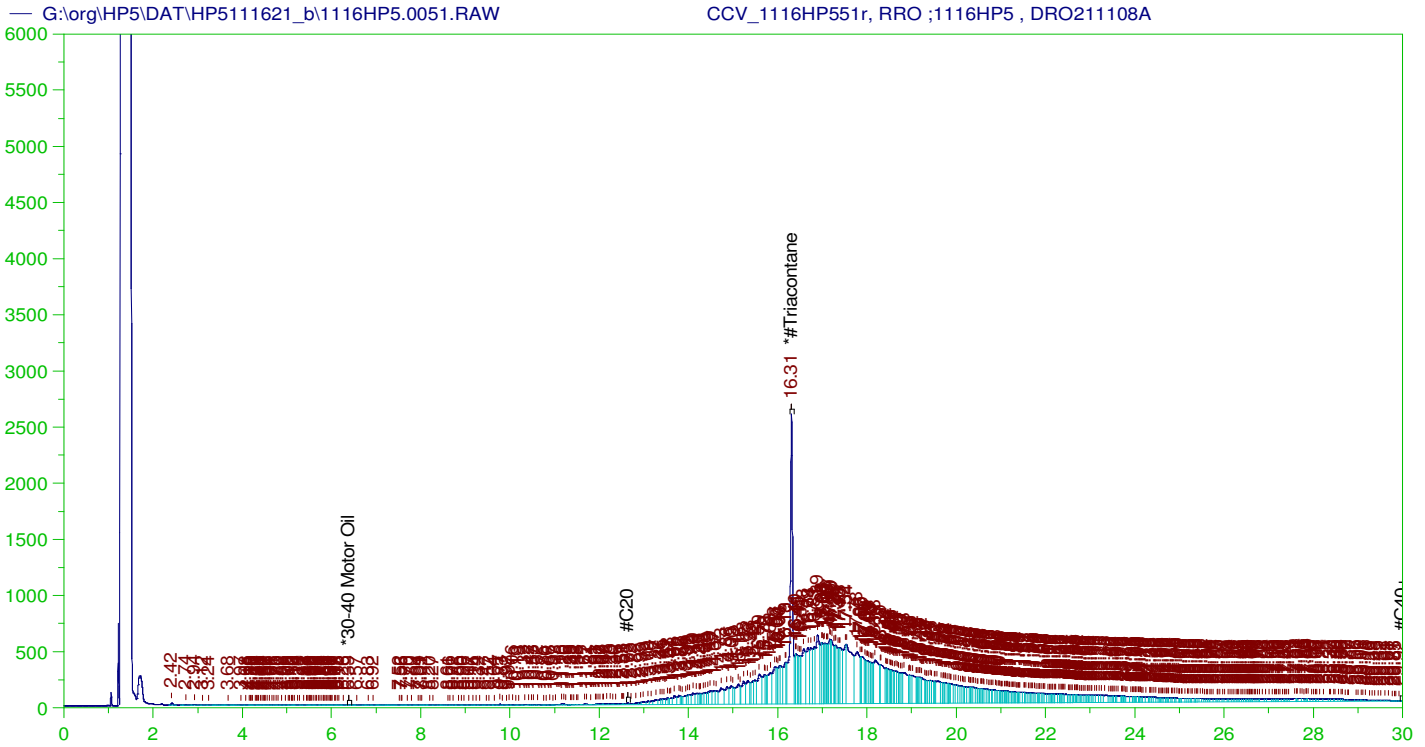
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MARKER_1116HP550r, DRO ;1116HP5 , DRO211103B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0050.RAW
 Date & Time Acquired: 11/17/2021 8:38:03 PM
 Method File: G:\Org\HP5\Methods\DC_8015-24-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.246	.2	.205	102.36
*1-Chlorooctadecane	13.05	.2	.165	82.72

DRO Area: 6.914198E+07 DRO Amount: 2.205261
 TEH Area: 1.118235E+08 TEH Amount: 3.566575



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1116HP551r, RRO ;1116HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0051.RAW
 Date & Time Acquired: 11/17/2021 9:20:54 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.307	500.	325.168	65.03	-

~~RRO~~ TEH(Oil Range) Area:1.351729E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4735.861

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0051.RAW

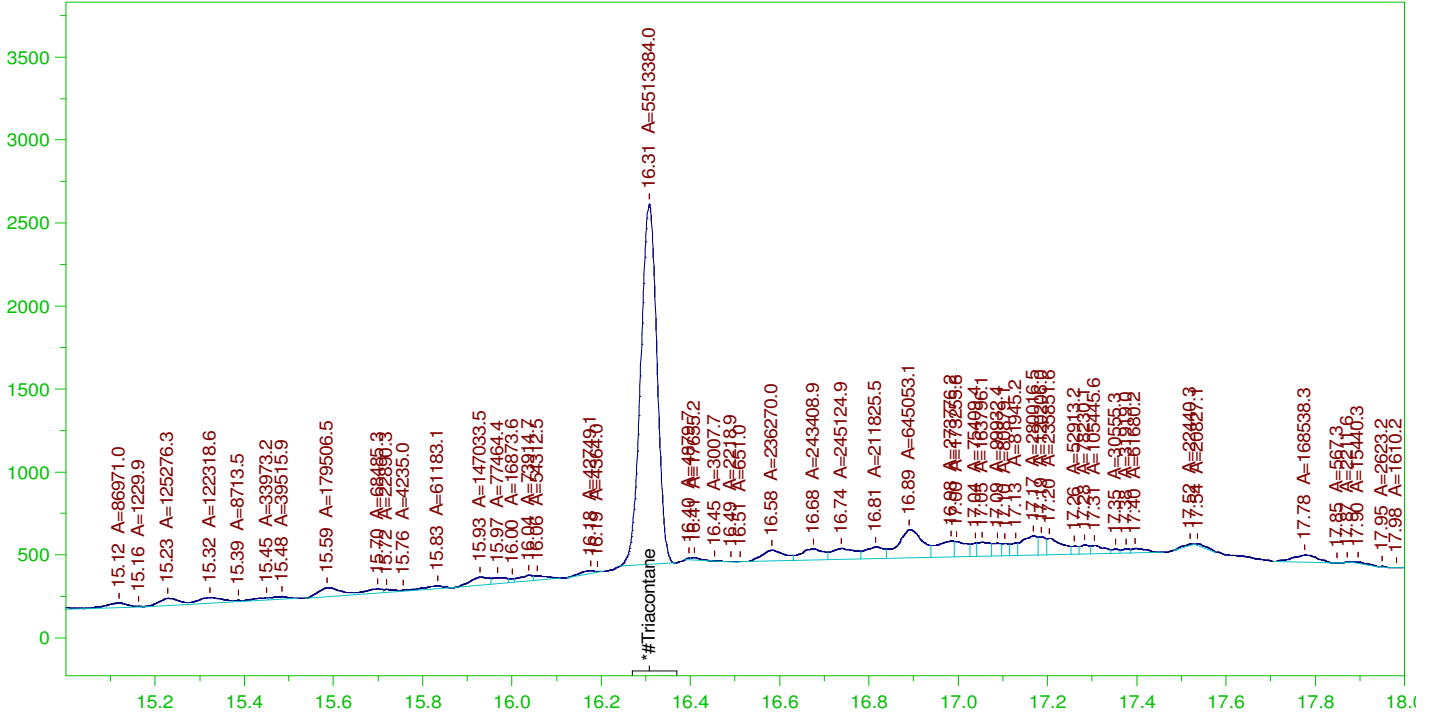
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.038	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.307	200.	325.168	162.58	75-125

AMN 11/19/2021

G:\org\HP5\DAT\HP5111621_b\1116HP5.0051.RAW

CCV_1116HP551r, RRO ;1116HP5 , DRO211108A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1116HP551r, RRO ;1116HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0051.RAW
 Date & Time Acquired: 11/17/2021 9:20:54 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

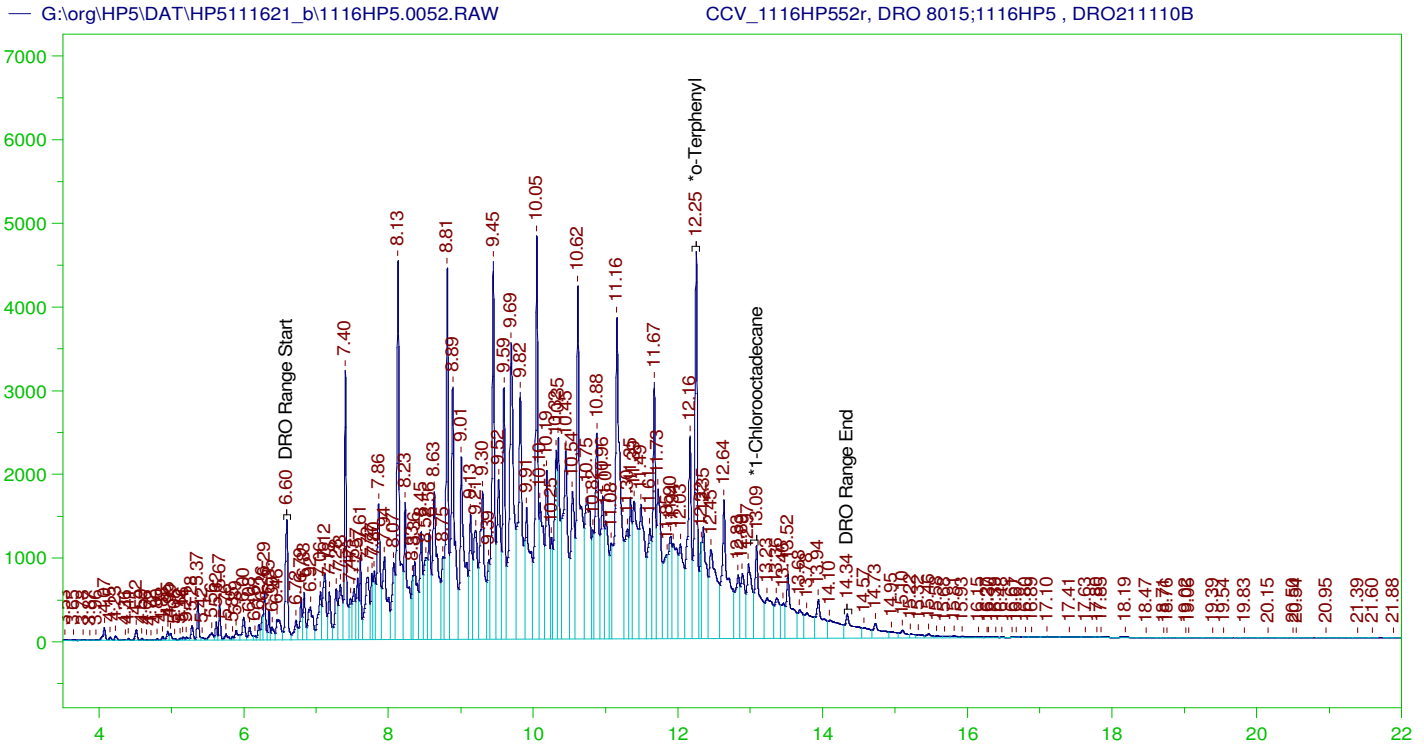
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.307	500.	190.576	38.12

RRO Area:6361952 RRO AMOUNT: 222.8947

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0051.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.038	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.307	200.	190.576	95.29	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1116HP552r, DRO 8015;1116HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0052.RAW
 Date & Time Acquired: 11/17/2021 10:03:36 PM
 Method File: G:\Org\HP5\Methods\DC_8015-24-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.252	200.	333.234	166.62
*1-Chlorooctadecane	13.086	200.	158.259	79.13

DRO Area: 4.62621E+08 DRO Amount: 14755.15
 TEH Area: 4.785459E+08 TEH Amount: 15263.07

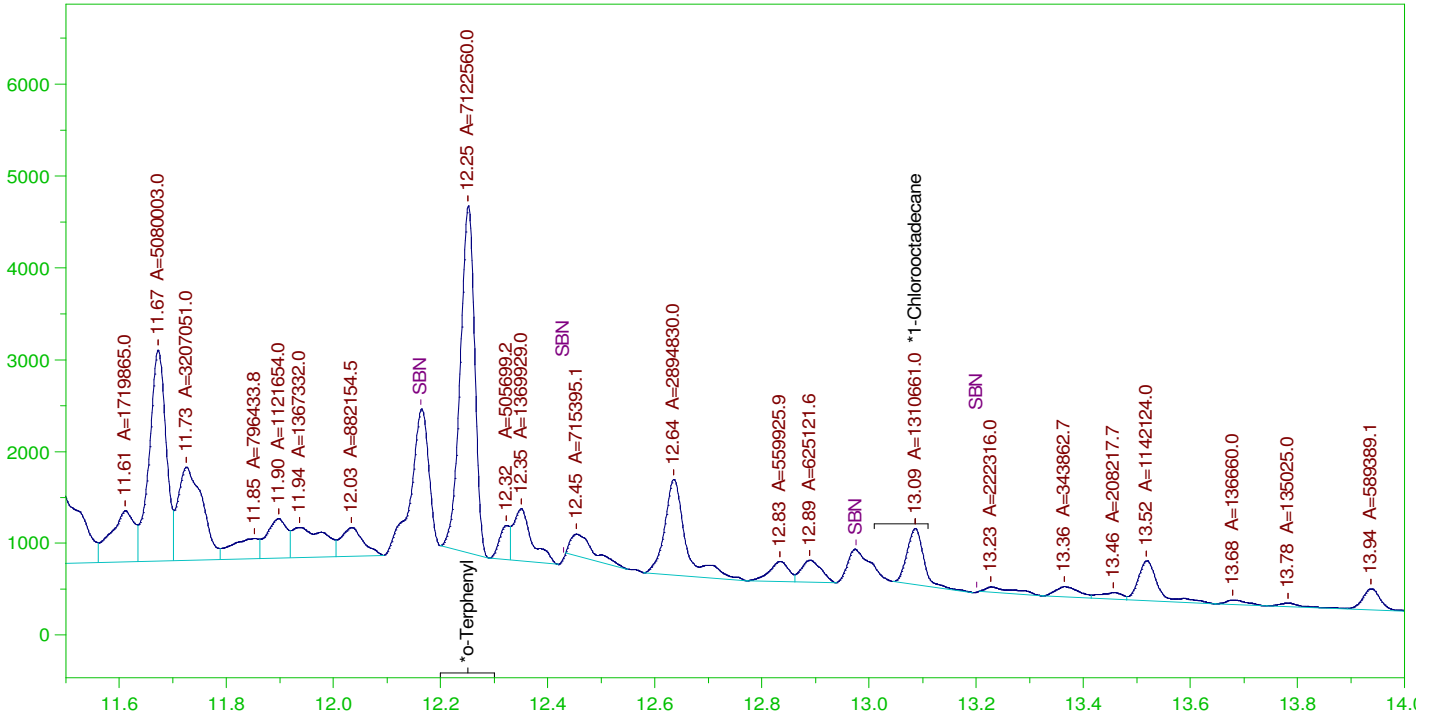
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0052.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15263.07	101.75	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.252	200.	333.234	166.62	85-115
*1-Chlorooctadecane	13.086	200.	158.259	79.13	85-115

G:\org\HP5\DAT\HP5111621_b\1116HP5.0052.RAW

CCV_1116HP552r, DRO 8015;1116HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1116HP552r, DRO 8015;1116HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0052.RAW
 Date & Time Acquired: 11/17/2021 10:03:36 PM
 Method File: G:\Org\HP5\Methods\DS_8015-24-IC-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

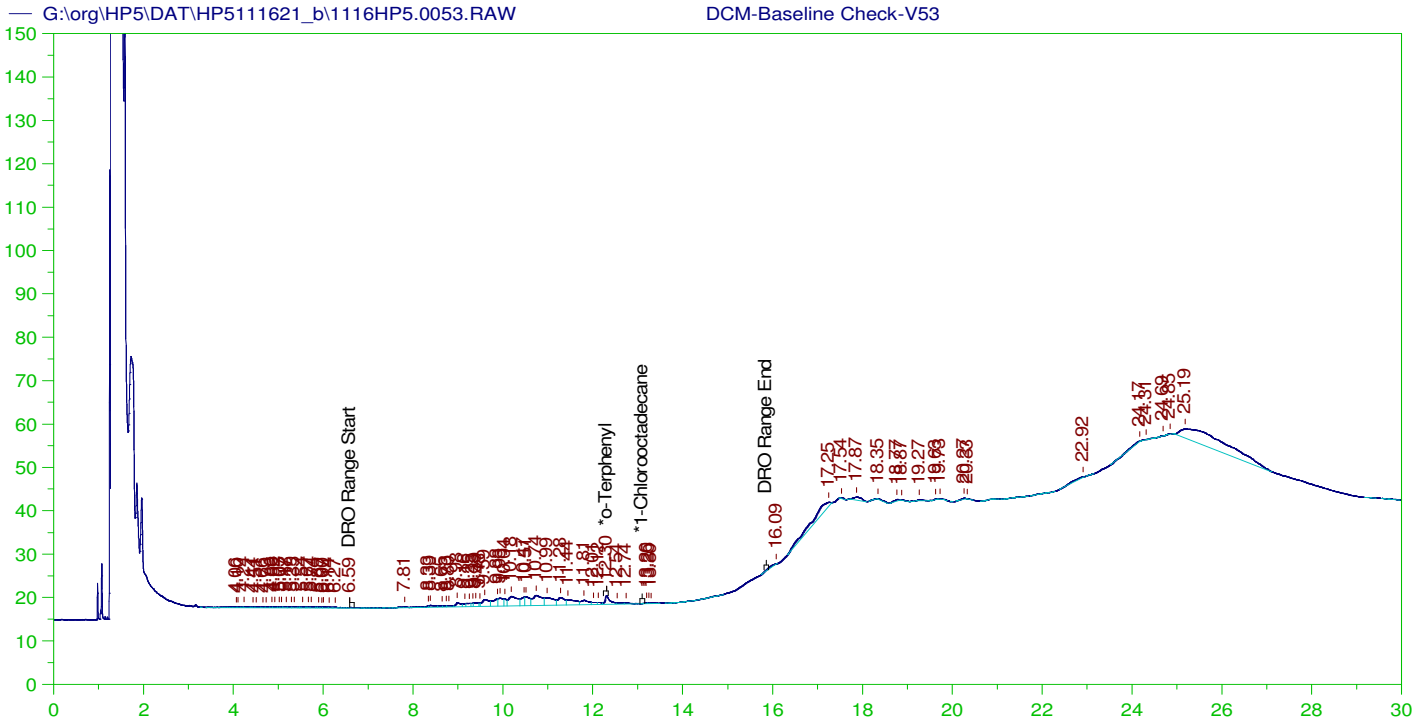
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.252	200.	200.583	100.29
*1-Chlorooctadecane	13.086	200.	36.91	18.46

DRO Area: 2.588293E+08 DRO Amount: 8255.279
 TEH Area: 2.692075E+08 TEH Amount: 8586.285

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0052.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8586.29	57.24	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.252	200.	200.583	100.29	85-115
*1-Chlorooctadecane	13.086	200.	36.91	18.46	85-115



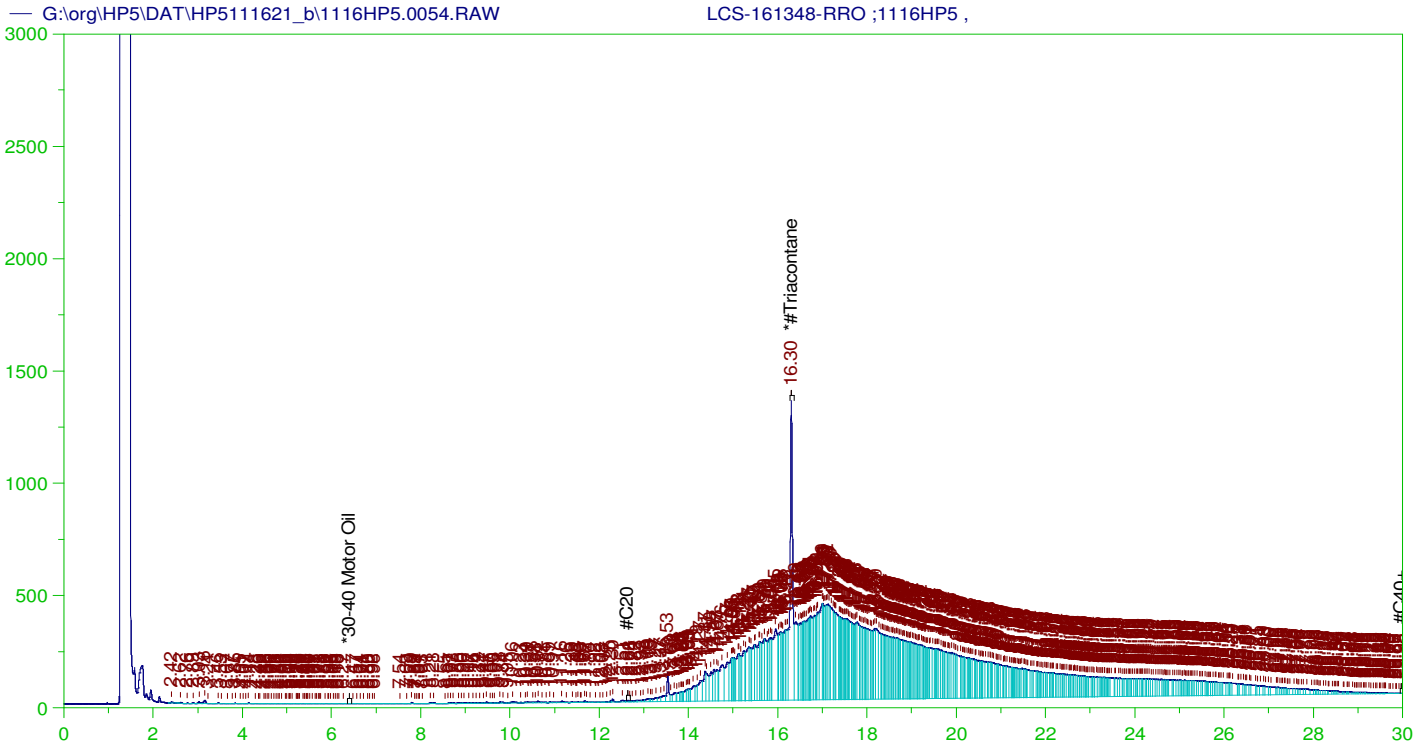
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V53
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0053.RAW
 Date & Time Acquired: 11/17/2021 10:46:32 PM
 Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.302	200.	.421	.21	-
*1-Chlorooctadecane	29.83	200.	.	.	-

DRO Area: 271243.8 DRO Amount: 8.651235
 TEH Area: 635873.6 TEH Amount: 20.28098



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCS-161348-RRO ;1116HP5 ,
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0054.RAW
 Date & Time Acquired: 11/17/2021 11:29:17 PM
 Method File: G:\Org\HP5\Methods\D3_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

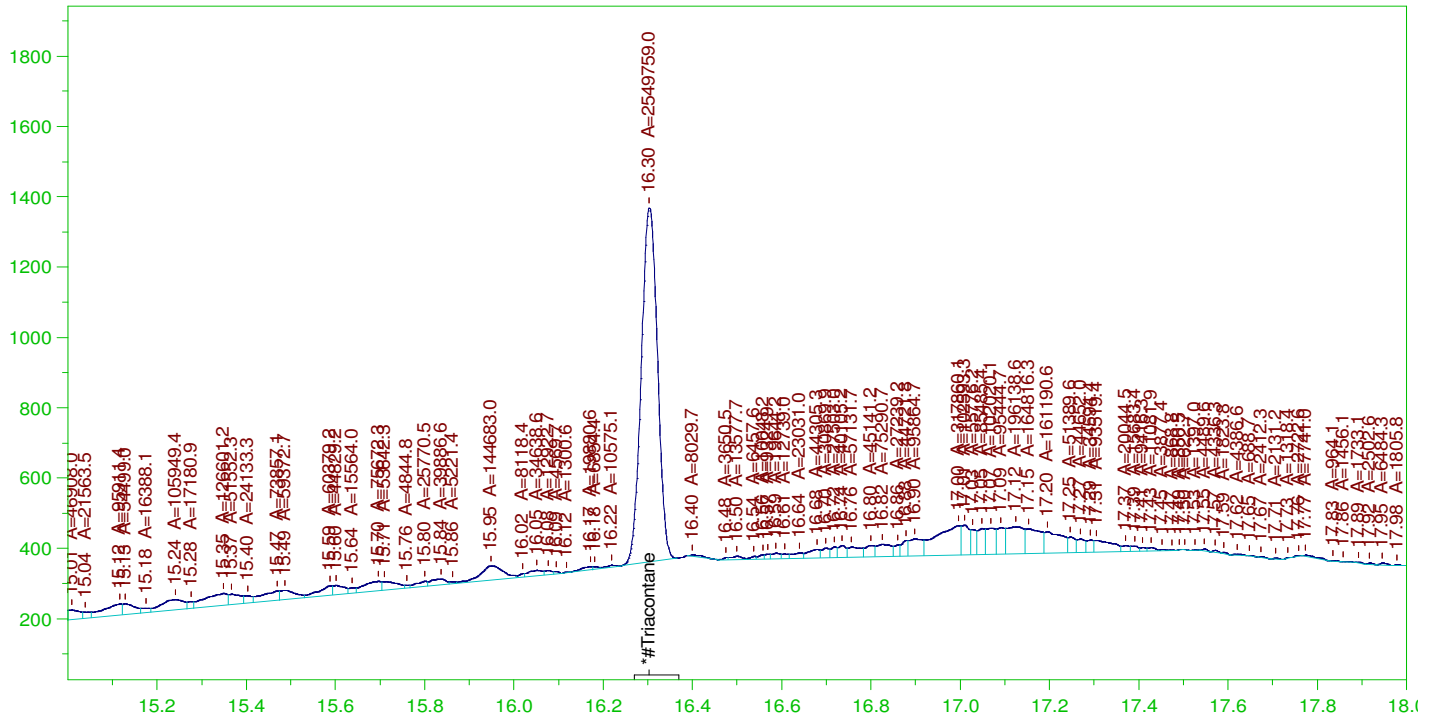
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.303	.5	.174	34.81	-

RRO TEH(Oil Range) Area:1.37085E+08 RRO TEH(Oil Range) AMOUNT: 4.802853

AMN 11/19/2021

G:\org\HP5\DAT\HP5111621_b\1116HP5.0054.RAW

LCS-161348-RRO ;1116HP5 ,



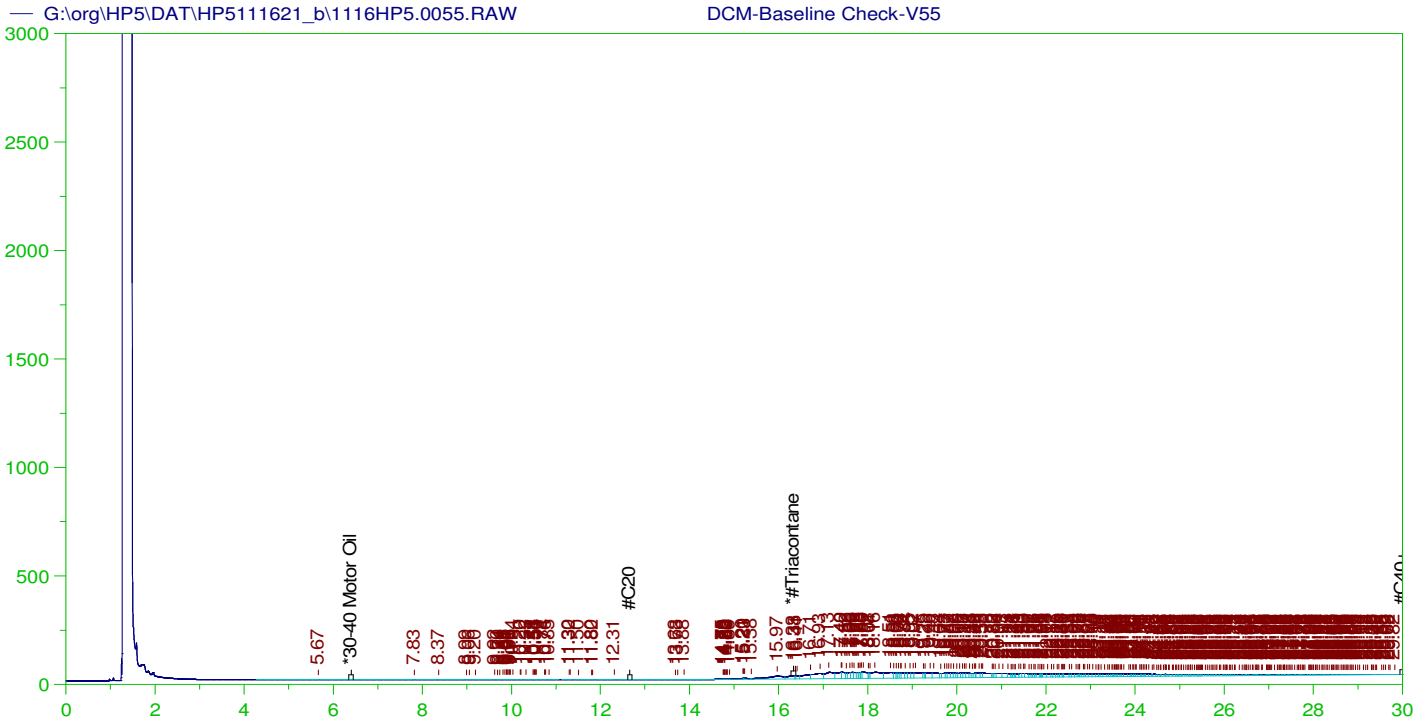
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCS-161348-RRO ;1116HP5 ,
Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0054.RAW
Date & Time Acquired: 11/17/2021 11:29:17 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AE-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.303	.5	.088	17.63

RRO Area:4992429 RRO AMOUNT: 0.1749127



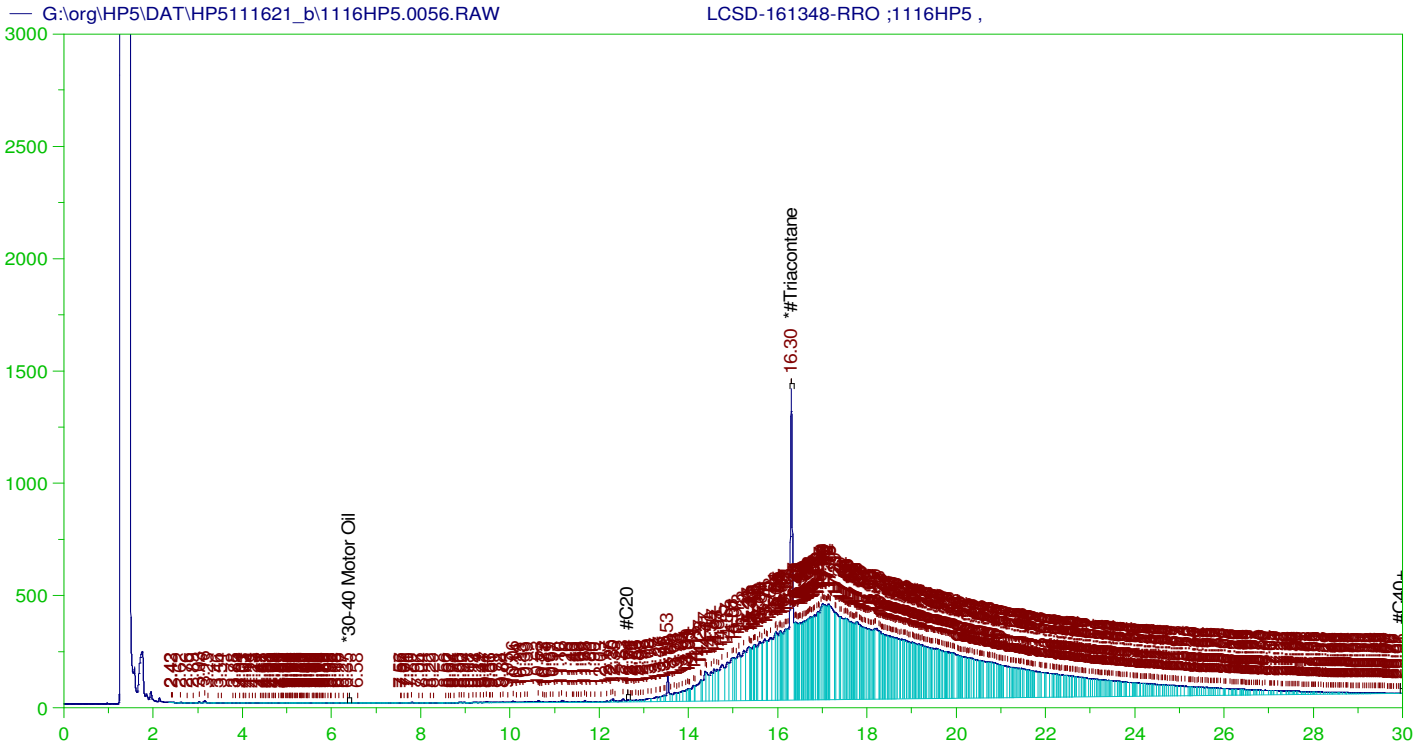
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: DCM-Baseline Check-V55
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0055.RAW
 Date & Time Acquired: 11/18/2021 12:12:12 AM
 Method File: G:\Org\HP5\Methods\D3_ORO-AD-L0.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AD.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: 12.61 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.332	500.	5.678	1.14	-

RRO Area:1.115609E+07 RRO AMOUNT: 390.8602



RESIDUAL RANGE ORGANICS CHROMATOGRAM

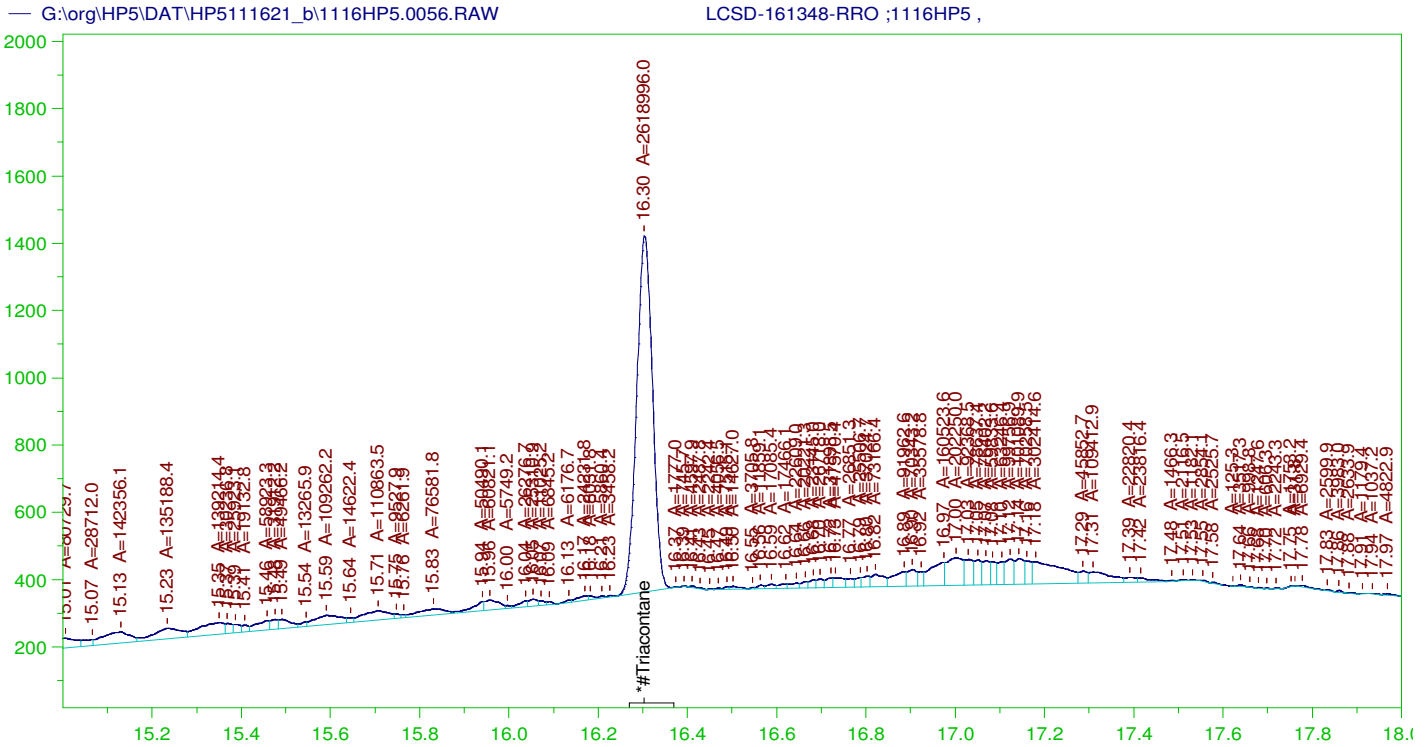
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 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.6 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.304	.5	.176	35.21	-

RRO TEH(Oil Range)Area:1.299322E+08 RRO TEH(Oil Range)AMOUNT: 4.55225

AMN 11/19/2021



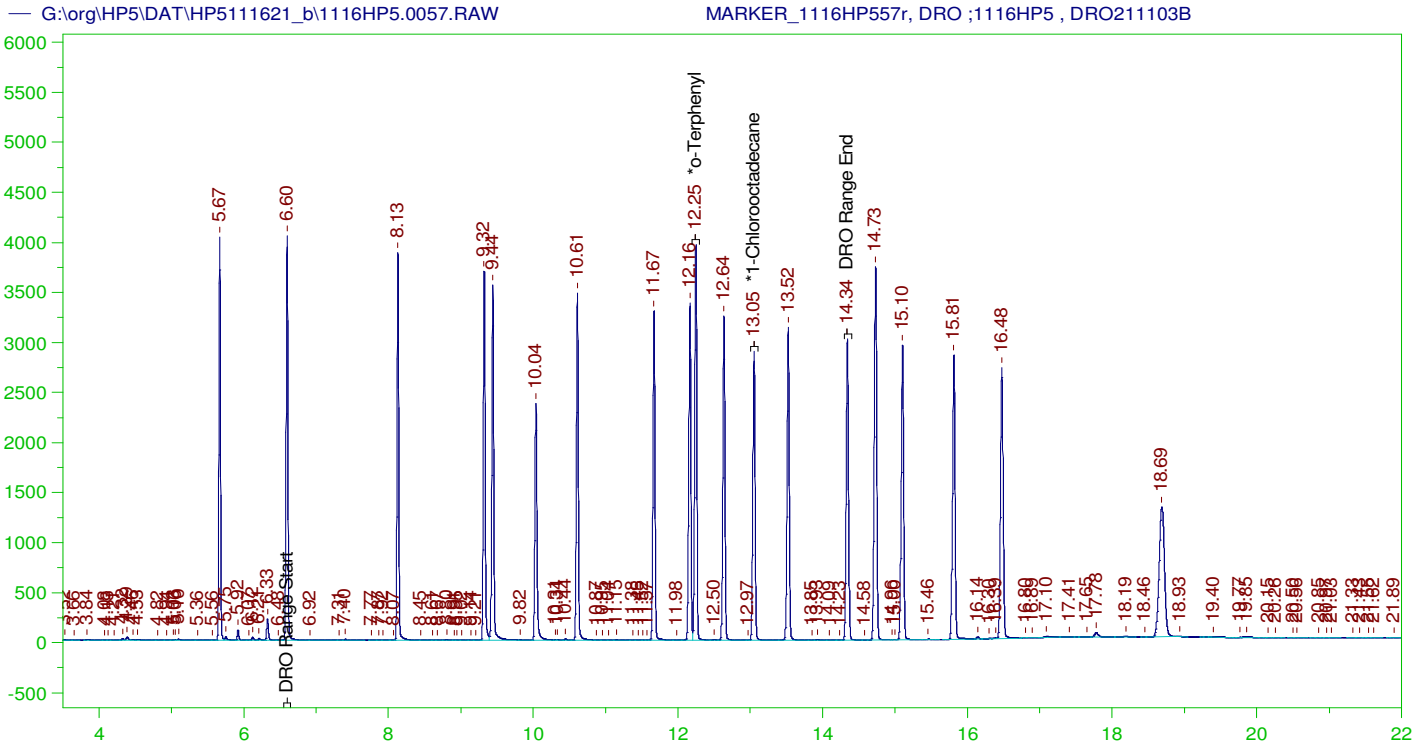
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCSD-161348-RRO ;1116HP5 ,
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 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.304	.5	.091	18.11

RRO Area:5023197 RRO AMOUNT: 0.1759906



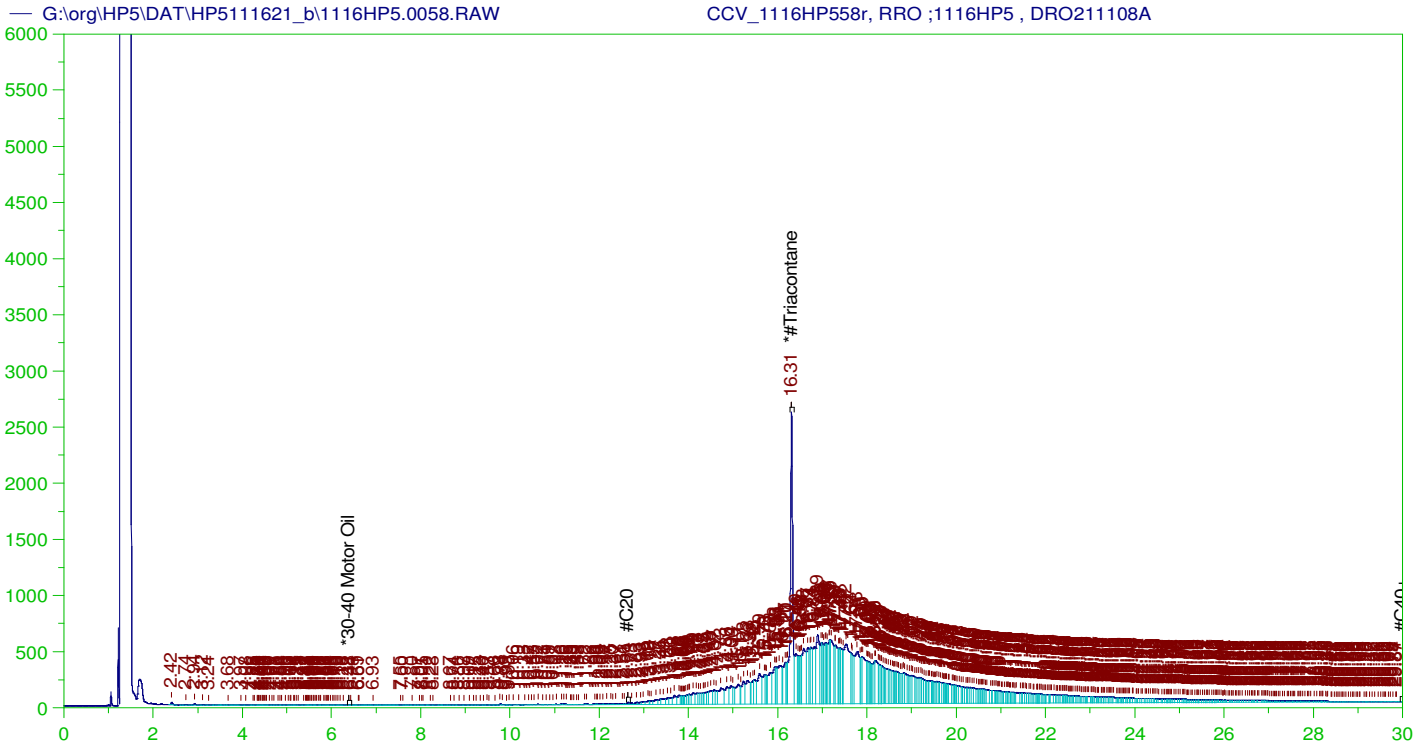
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MARKER_1116HP557r, DRO ;1116HP5 , DRO211103B
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 Date & Time Acquired: 11/18/2021 1:38:18 AM
 Method File: G:\Org\HP5\Methods\DC_8015-24-IC-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.247	.2	.212	105.82
*1-Chlorooctadecane	13.05	.2	.171	85.32

DRO Area: 7.141175E+07 DRO Amount: 2.277655
 TEH Area: 1.155464E+08 TEH Amount: 3.685317



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1116HP558r, RRO ;1116HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111621_b\1116HP5.0058.RAW
 Date & Time Acquired: 11/18/2021 2:21:22 AM
 Method File: G:\Org\HP5\Methods\DC_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.309	500.	315.385	63.08	-

~~RRO~~ TEH(Oil Range)Area:1.329292E+08 ~~RRO~~ TEH(Oil Range)AMOUNT: 4657.253

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0058.RAW

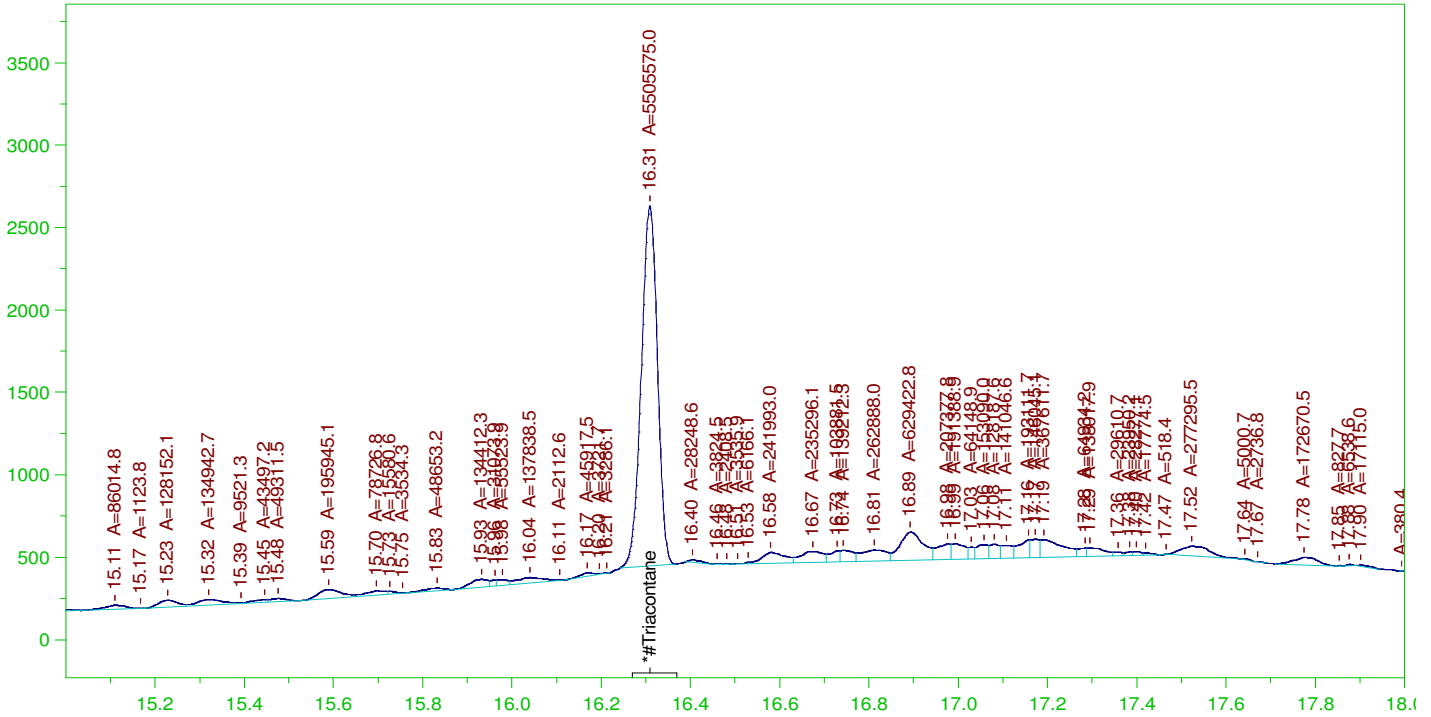
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.031	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.309	200.	315.385	157.69	75-125

AMN 11/19/2021

G:\org\HP5\DAT\HP5111621_b\1116HP5.0058.RAW

CCV_1116HP558r, RRO ;1116HP5 , DRO211108A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1116HP558r, RRO ;1116HP5 , DRO211108A
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 Method File: G:\Org\HP5\Methods\DS_ORO-AE-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AE.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: 12.6 to 30.05

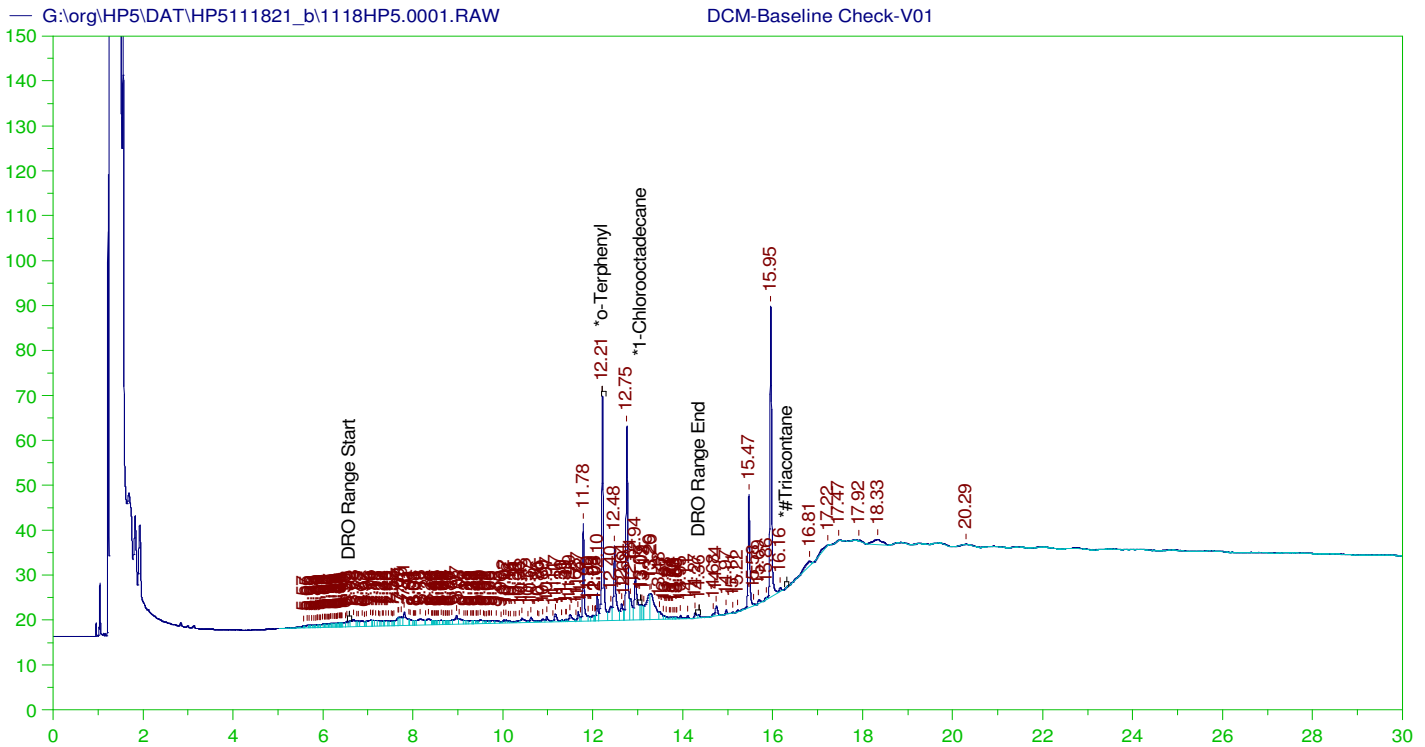
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.309	500.	190.306	38.06

RRO Area:6464617 RRO AMOUNT: 226.4916

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111621_b\1116HP5.0058.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.031	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.309	200.	190.306	95.15	75-125



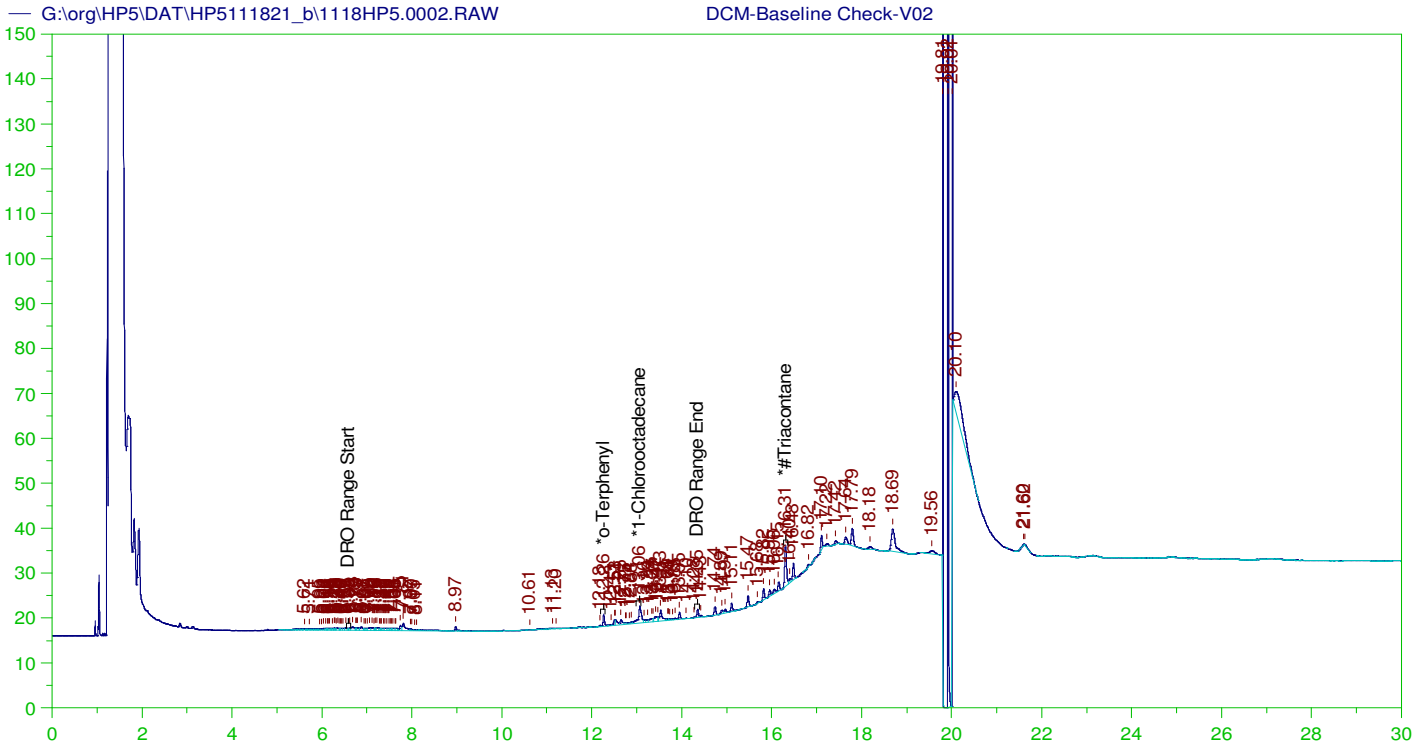
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V01
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 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L0.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.211	200.	3.766	1.88	-
*1-Chlorooctadecane	13.065	200.	.23	.12	-
*#Triacontane	29.993	200.	.	.	-

DRO Area: 754102.7 DRO Amount: 24.05186
 TEH Area: 1124153 TEH Amount: 35.85449



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

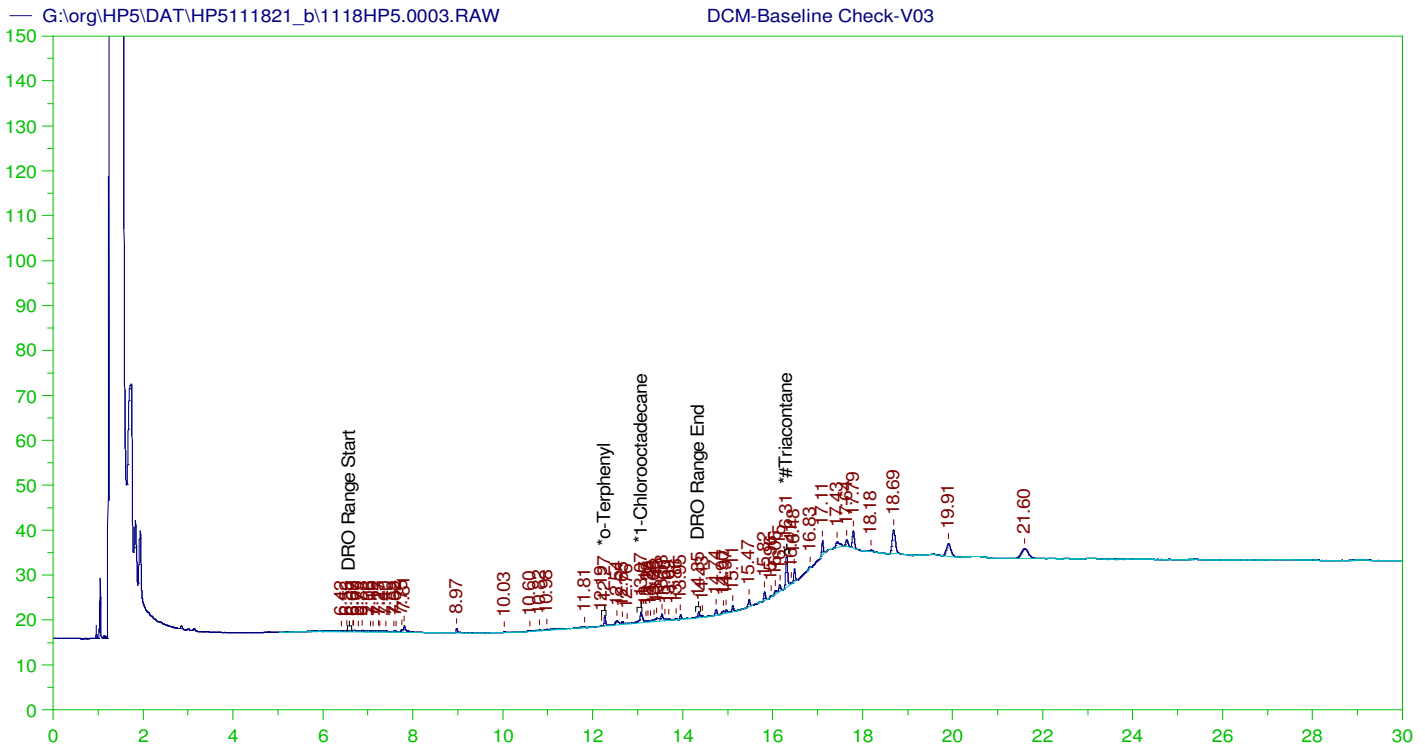
Sample Name: DCM-Baseline Check-V02
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.263	200.	.18	.09	-
*1-Chlorooctadecane	13.063	200.	.539	.27	-
*#Triacontane	16.306	200.	.875	.44	-

DRO Area:131463.3 DRO Amount: 4.19298
 TEH Area:3302532 TEH Amount: 105.3332



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

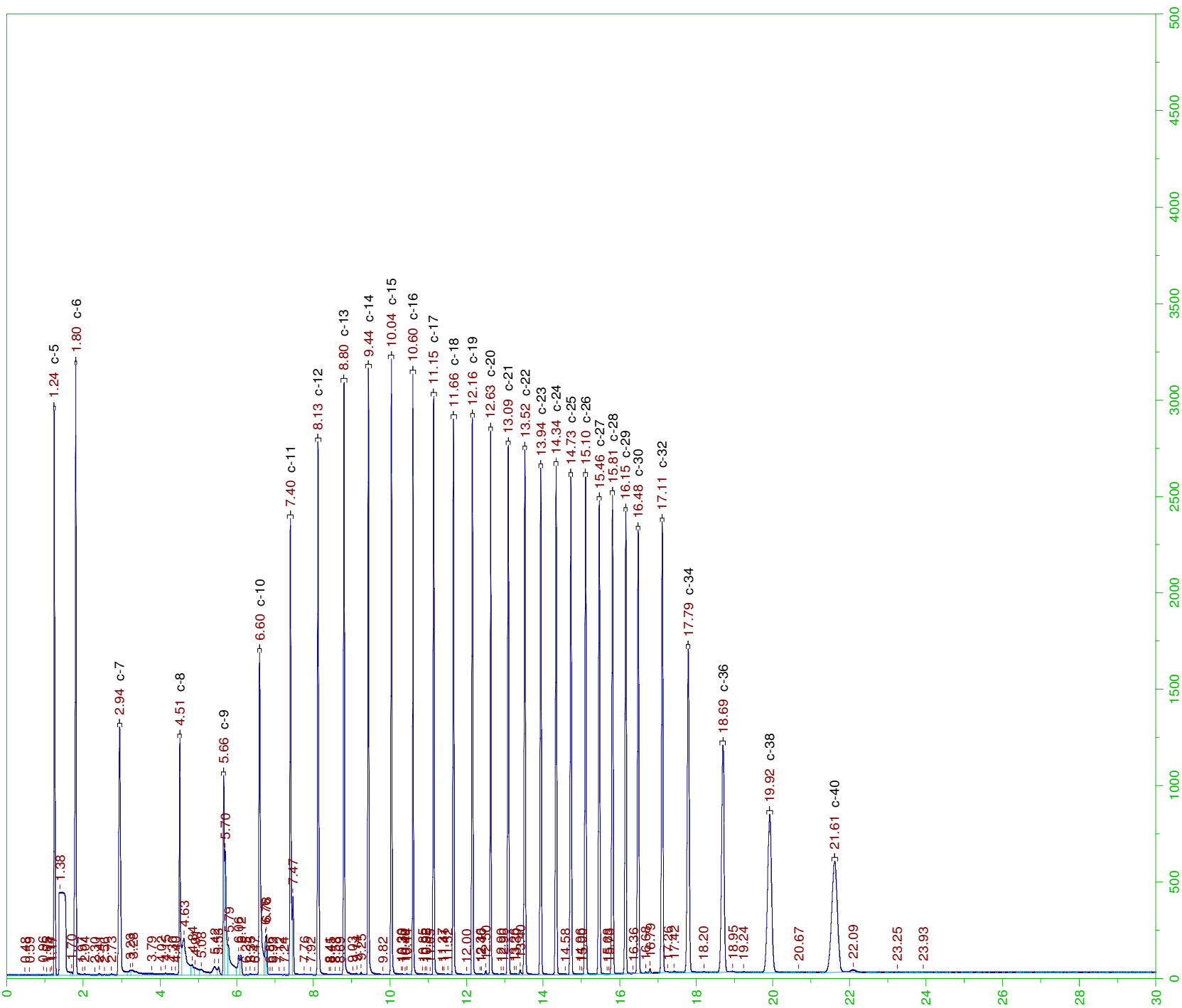
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 Sample Weight: 1 Dilution: 1 S.A.: 1

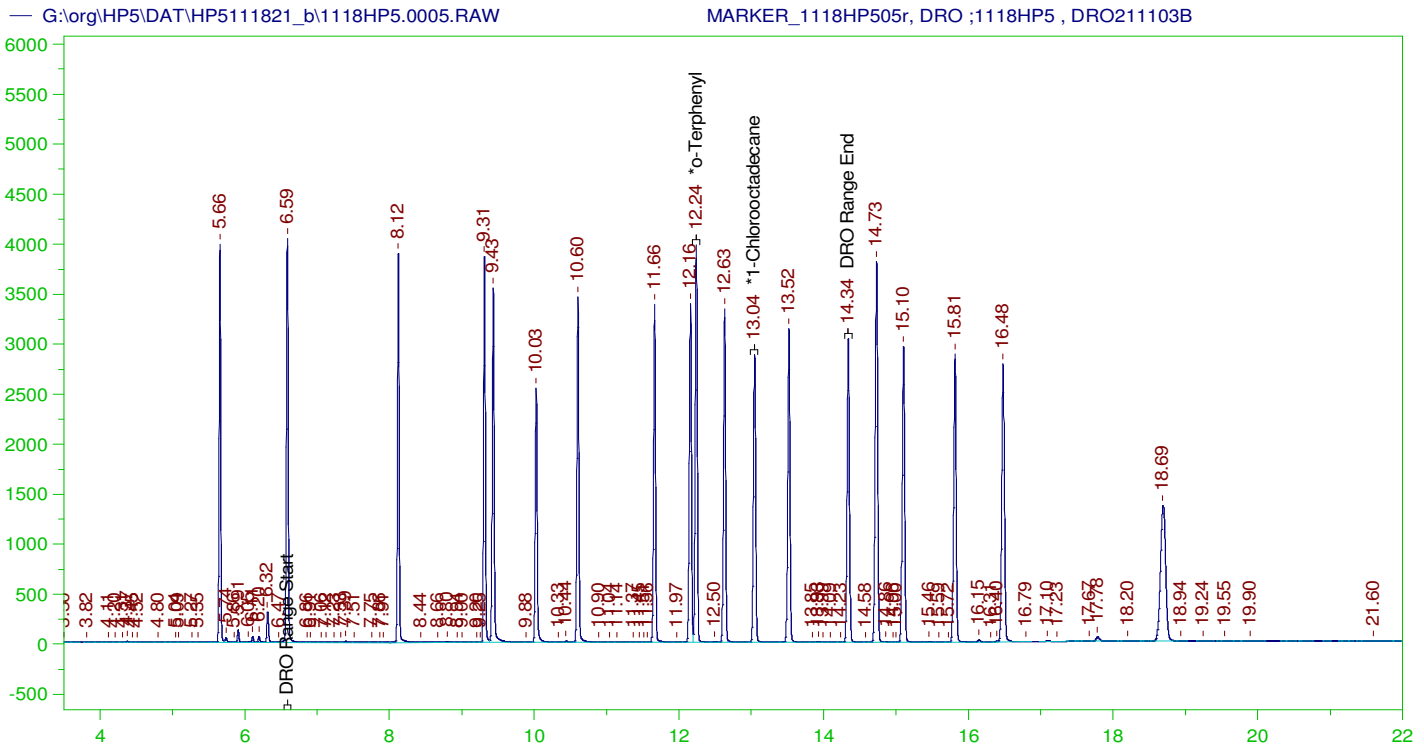
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.267	200.	.174	.09	-
*1-Chlorooctadecane	13.069	200.	.343	.17	-
*#Triacontane	16.308	200.	.684	.34	-

DRO Area:81880.16 DRO Amount: 2.611541
 TEH Area:242736.2 TEH Amount: 7.741993





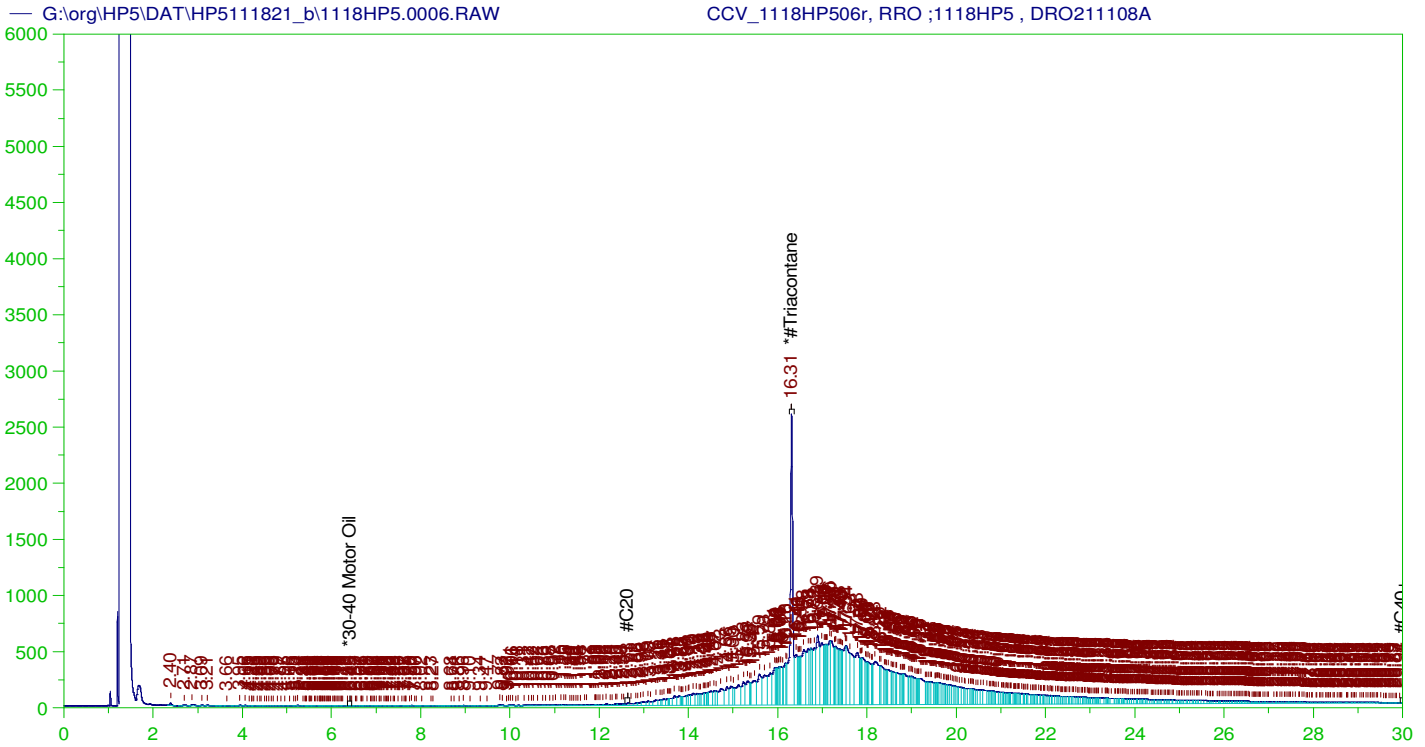
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MARKER_1118HP505r, DRO ;1118HP5 , DRO211103B
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.24	.2	.212	105.93
*1-Chlorooctadecane	13.044	.2	.172	86.1

DRO Area: 7.150749E+07 DRO Amount: 2.280709
 TEH Area: 1.160691E+08 TEH Amount: 3.701985



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1118HP506r, RRO ;1118HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0006.RAW
 Date & Time Acquired: 11/18/2021 12:47:21 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.309	500.	325.438	65.09	-

RRO TEH(Oil Range)Area:1.320824E+08 RRO TEH(Oil Range)AMOUNT: 4627.583

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0006.RAW

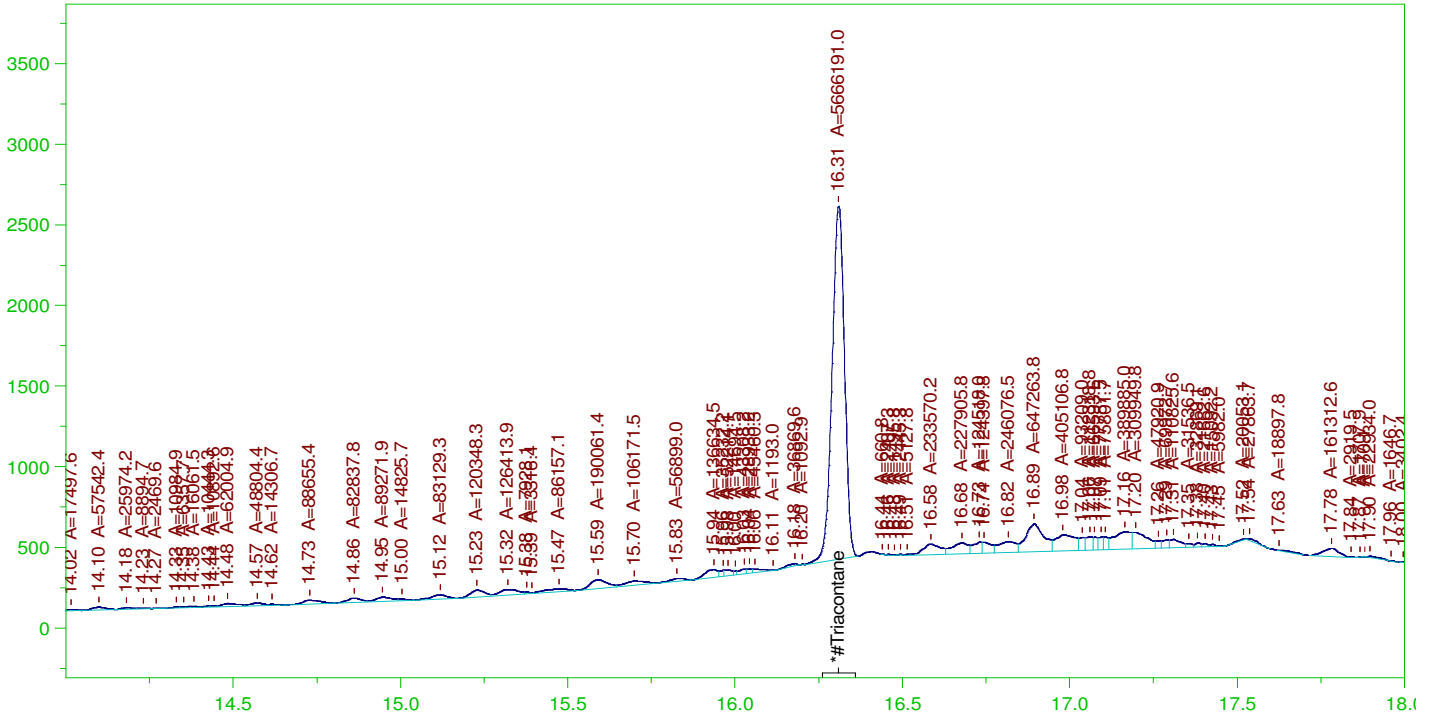
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.031	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.309	200.	325.438	162.72	75-125

AMN 11/19/2021

G:\org\HP5\DAT\HP5111821_b\1118HP5.0006.RAW

CCV_1118HP506r, RRO ;1118HP5 , DRO211108A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1118HP506r, RRO ;1118HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0006.RAW
 Date & Time Acquired: 11/18/2021 12:47:21 PM
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 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.309	500.	195.858	39.17	-

RRO Area:6280700 RRO AMOUNT: 220.048

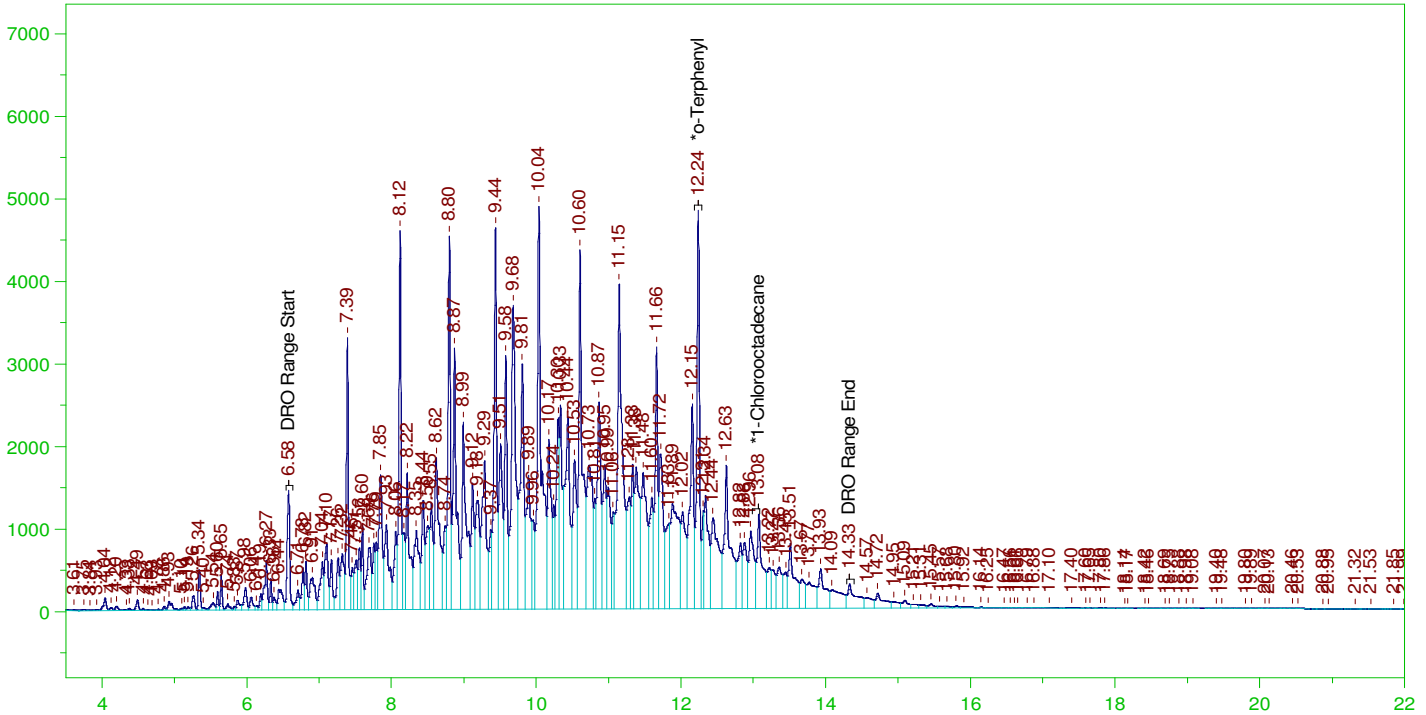
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COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.031	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.309	200.	195.858	97.93	75-125

G:\org\HP5\DAT\HP5111821_b\1118HP5.0007.RAW

CCV_1118HP507r, DRO 8015;1118HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1118HP507r, DRO 8015;1118HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0007.RAW
 Date & Time Acquired: 11/18/2021 1:30:01 PM
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

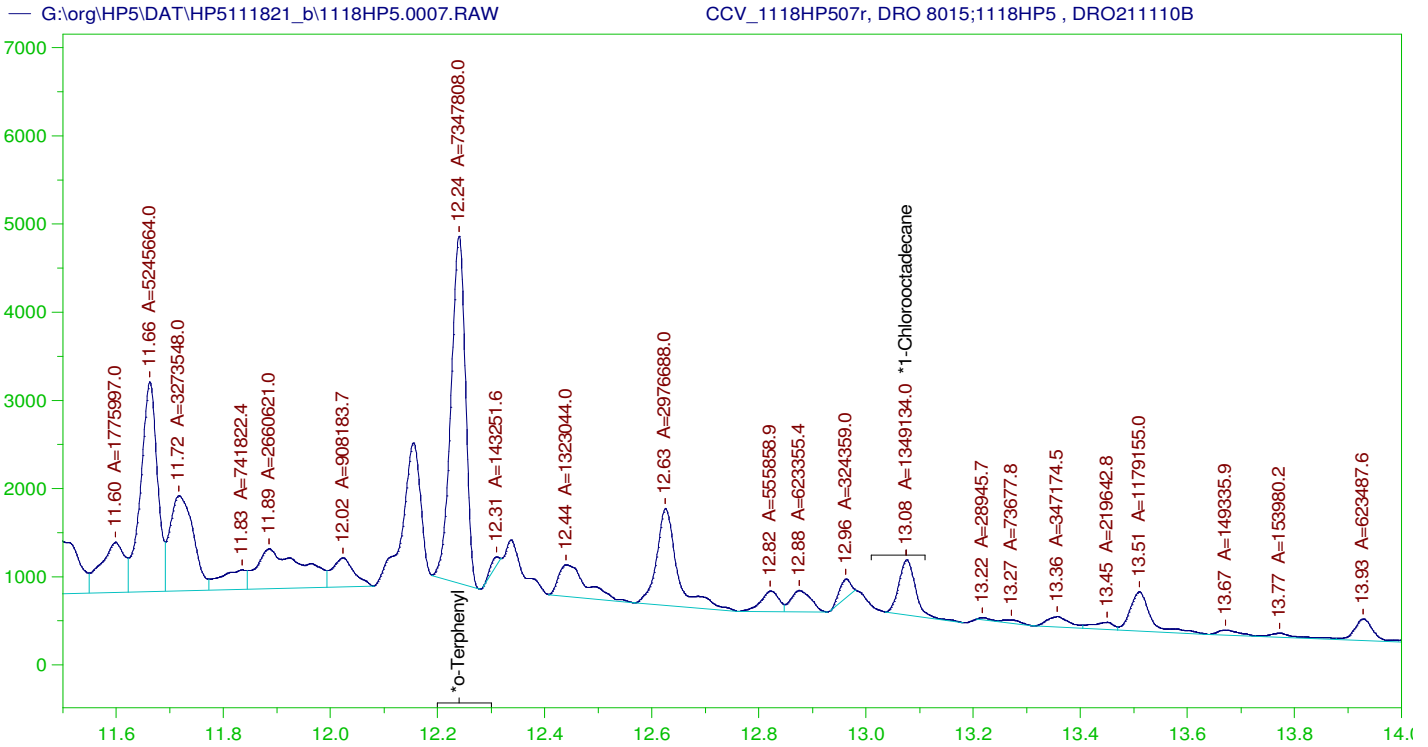
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.24	200.	342.576	171.29
*1-Chlorooctadecane	13.076	200.	162.09	81.04

DRO Area: 4.773881E+08 DRO Amount: 15226.14
 TEH Area: 4.938878E+08 TEH Amount: 15752.39

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0007.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15752.39	105.02	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.24	200.	342.576	171.29	85-115
*1-Chlorooctadecane	13.076	200.	162.09	81.04	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1118HP507r, DRO 8015;1118HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0007.RAW
 Date & Time Acquired: 11/18/2021 1:30:01 PM
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

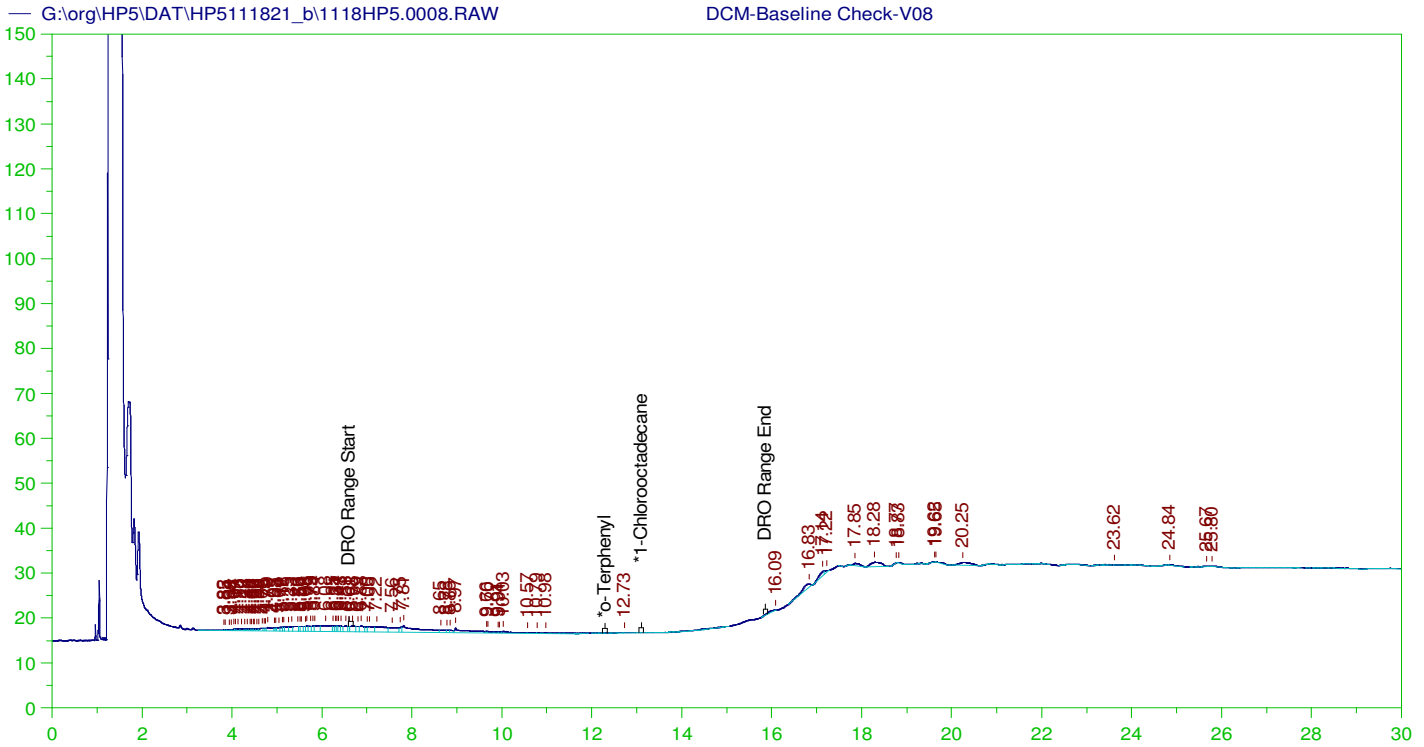
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.24	200.	206.927	103.46
*1-Chlorooctadecane	13.076	200.	37.994	19.

DRO Area: 2.645866E+08 DRO Amount: 8438.906
 TEH Area: 2.753846E+08 TEH Amount: 8783.305

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0007.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8783.31	58.56	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.24	200.	206.927	103.46	85-115
*1-Chlorooctadecane	13.076	200.	37.994	19.	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V08
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0008.RAW
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 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

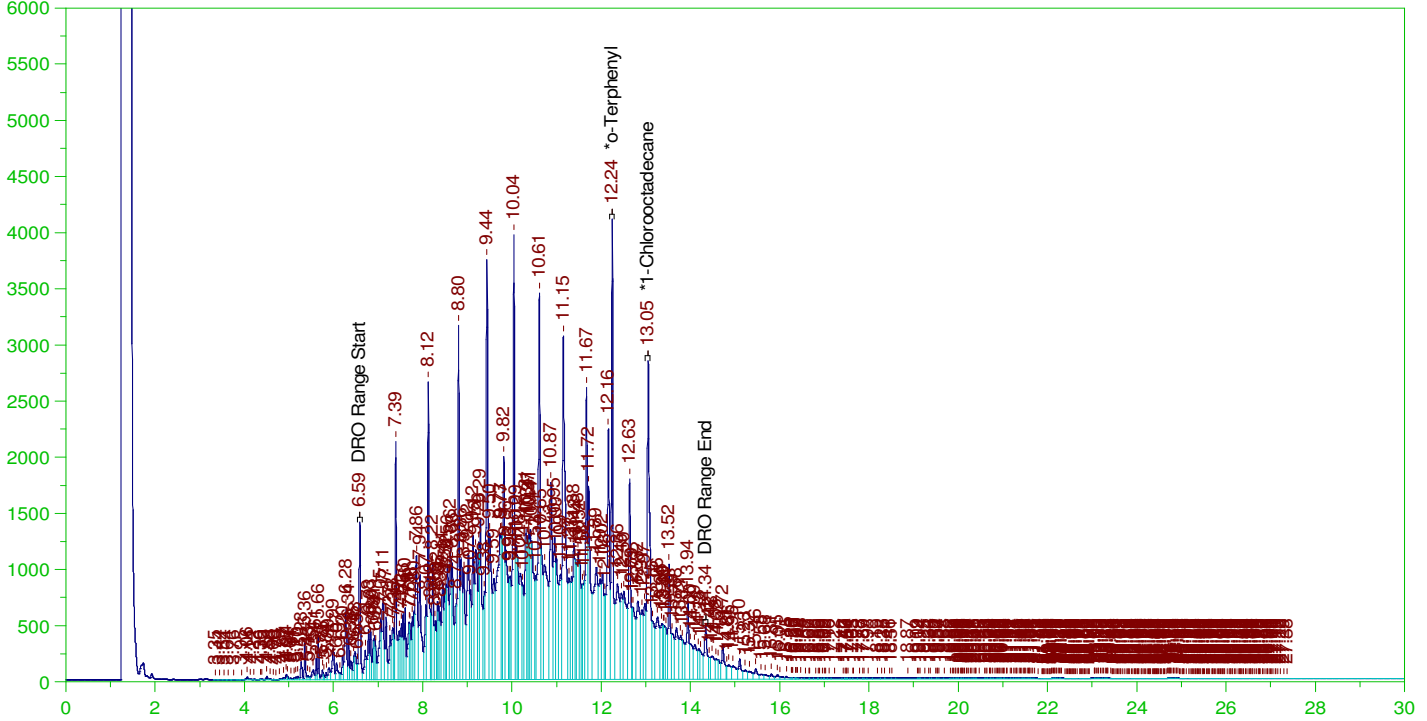
Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.876	200.	.	.
*1-Chlorooctadecane	29.876	200.	.	.

DRO Area:162646 DRO Amount: 5.187541
 TEH Area:386185.7 TEH Amount: 12.31727

Batch ID: 161348
LCS-161348 ;1118HP5 , SGT

G:\org\HP5\DAT\HP5111821_b\1118HP5.0009.RAW



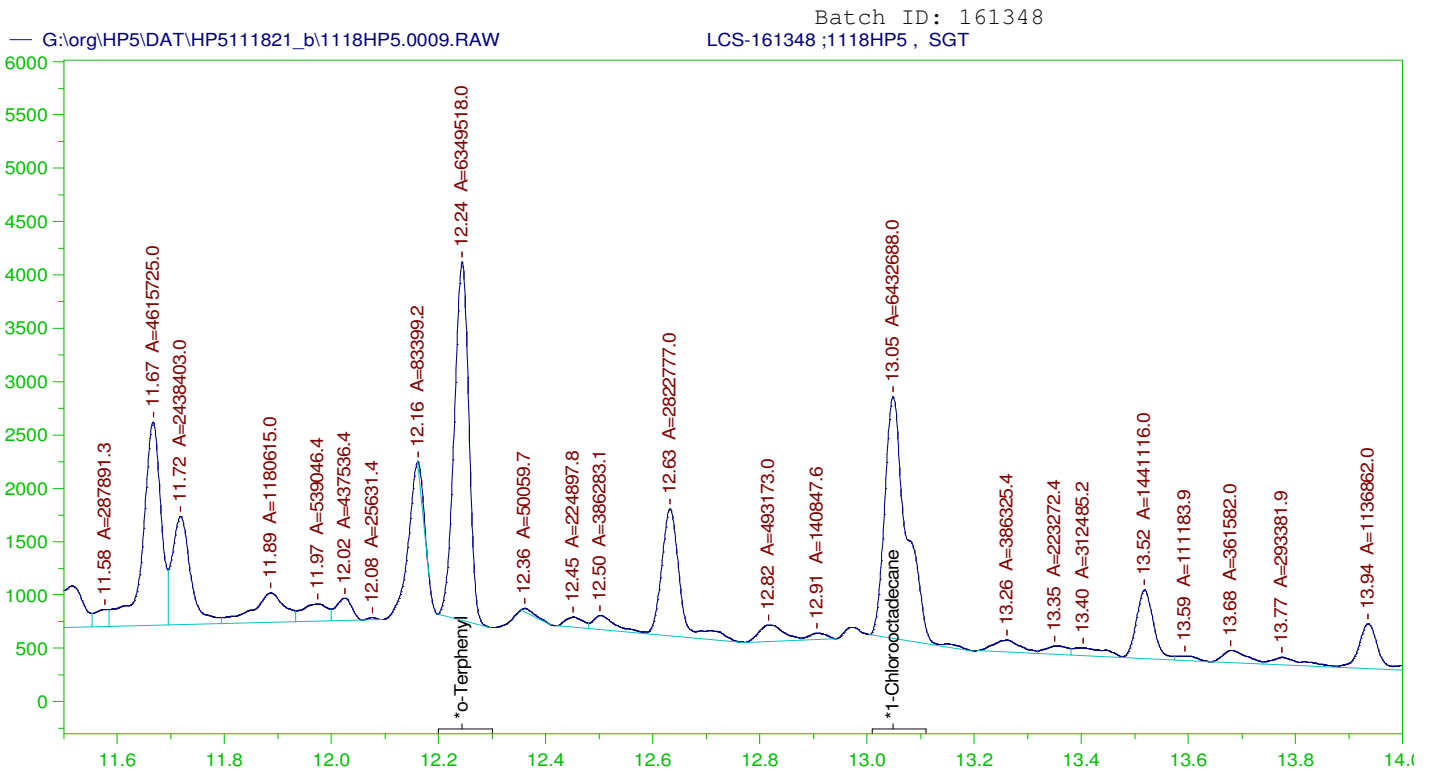
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-161348 ;1118HP5 , SGT
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.244	.2	.307	153.35
*1-Chlorooctadecane	13.048	.2	.304	152.03

DRO Area: 3.63982E+08 DRO Amount: 11.60909
 TEH Area: 3.865765E+08 TEH Amount: 12.32973



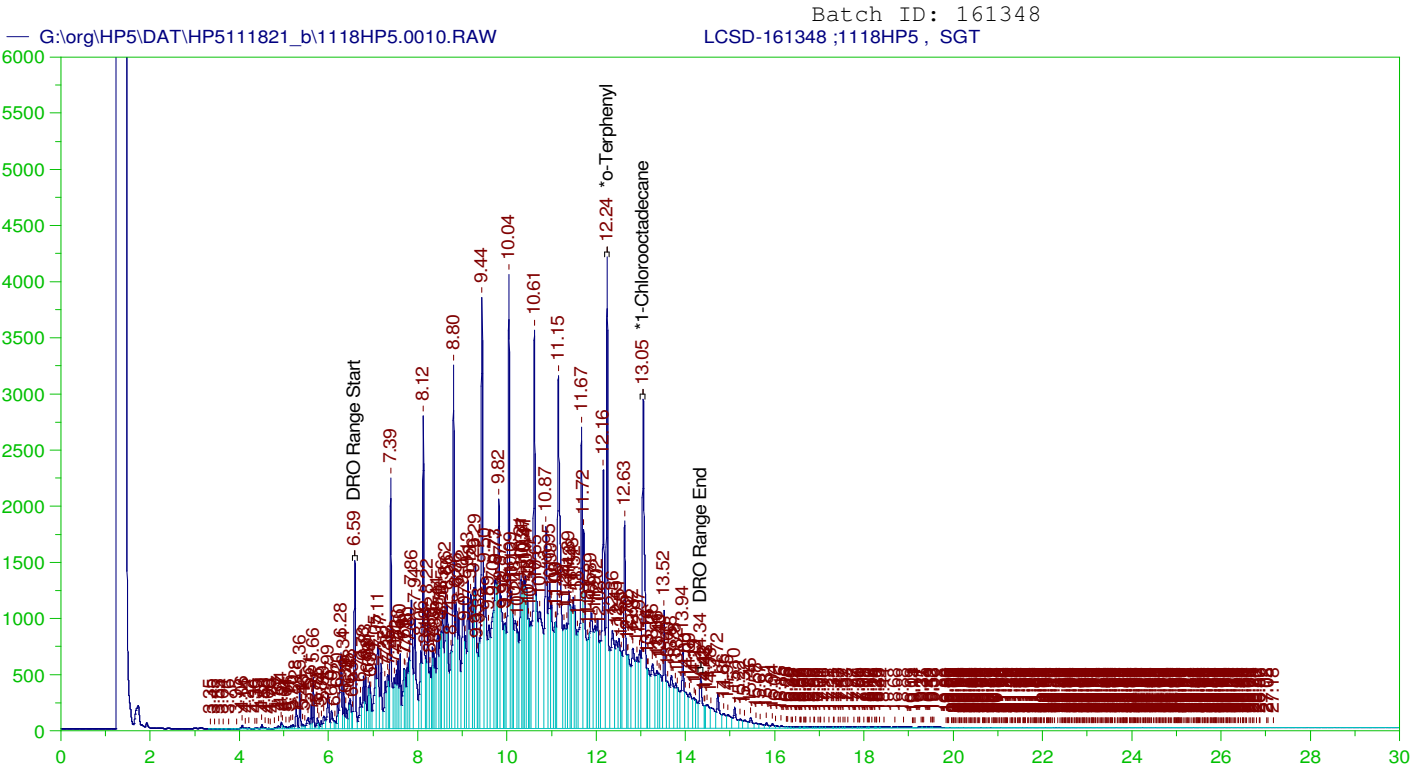
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-161348 ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0009.RAW
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.244	.2	.179	89.41
*1-Chlorooctadecane	13.048	.2	.181	90.58

DRO Area: 1.73255E+08 DRO Amount: 5.525914
 TEH Area: 1.829908E+08 TEH Amount: 5.836433



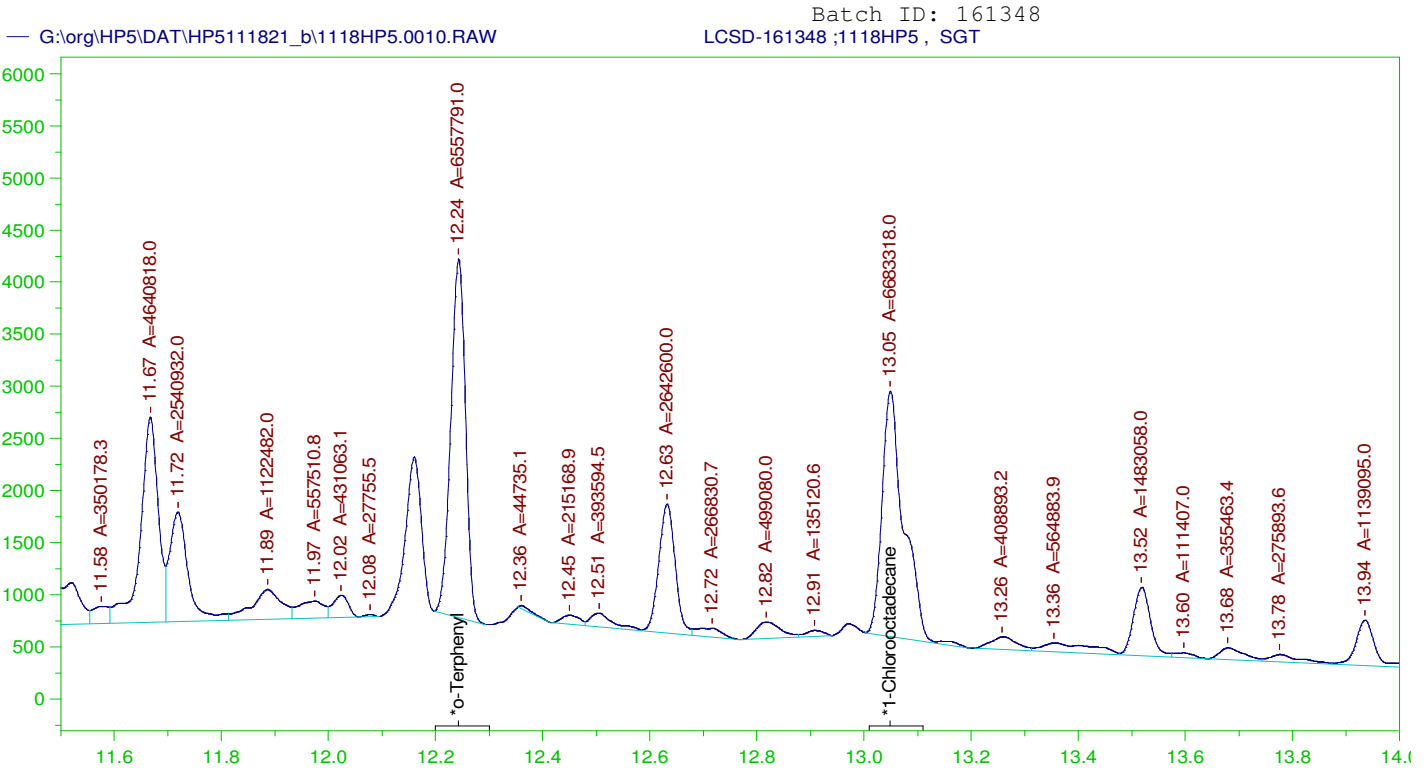
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCSD-161348 ;1118HP5 , SGT
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 Date & Time Acquired: 11/18/2021 3:38:13 PM
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.243	.2	.32	160.05 -
*1-Chlorooctadecane	13.049	.2	.312	155.75 -

DRO Area: 3.744636E+08 DRO Amount: 11.9434
 TEH Area: 3.979608E+08 TEH Amount: 12.69283



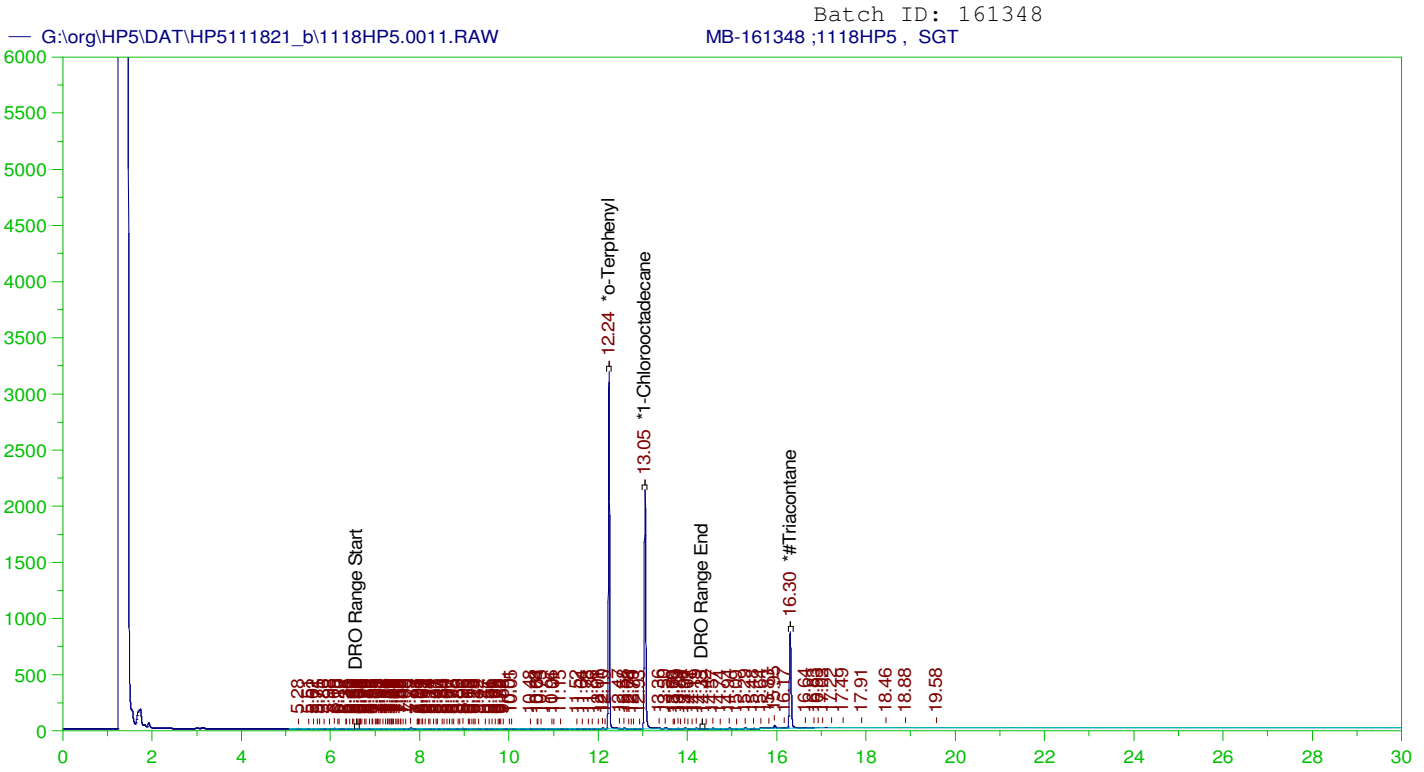
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCSD-161348 ;1118HP5 , SGT
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.243	.2	.185	92.34
*1-Chlorooctadecane	13.049	.2	.188	94.11

DRO Area: 1.778113E+08 DRO Amount: 5.671235
 TEH Area: 1.884802E+08 TEH Amount: 6.011517



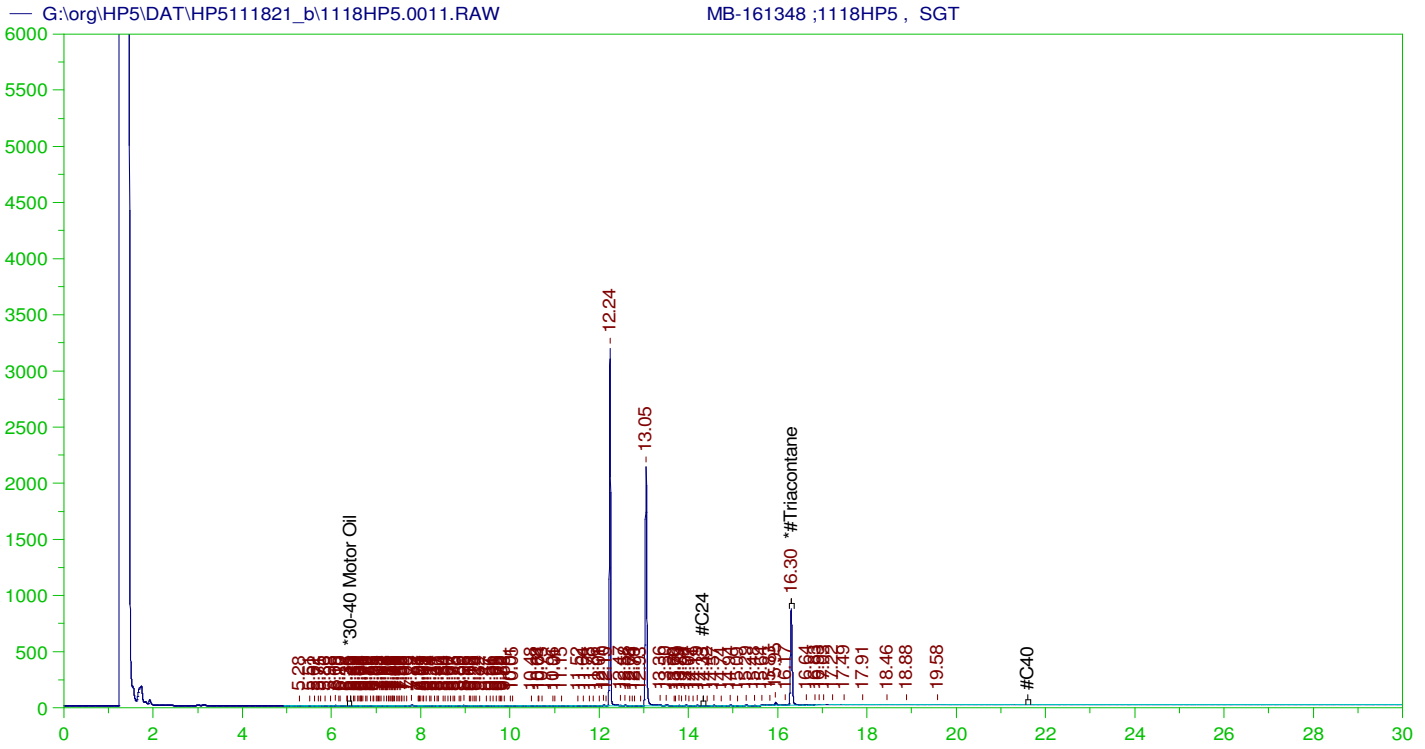
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-161348 ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0011.RAW
 Date & Time Acquired: 11/18/2021 4:21:00 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.239	.2	.171	85.66	-
*1-Chlorooctadecane	13.045	.2	.136	67.88	-
*#Triacontane	16.301	.2	.081	40.58	-

DRO Area:279147.8 DRO Amount: 8.903328E-03
 TEH Area:522612 TEH Amount: 1.666854E-02



RESIDUAL RANGE ORGANICS CHROMATOGRAM

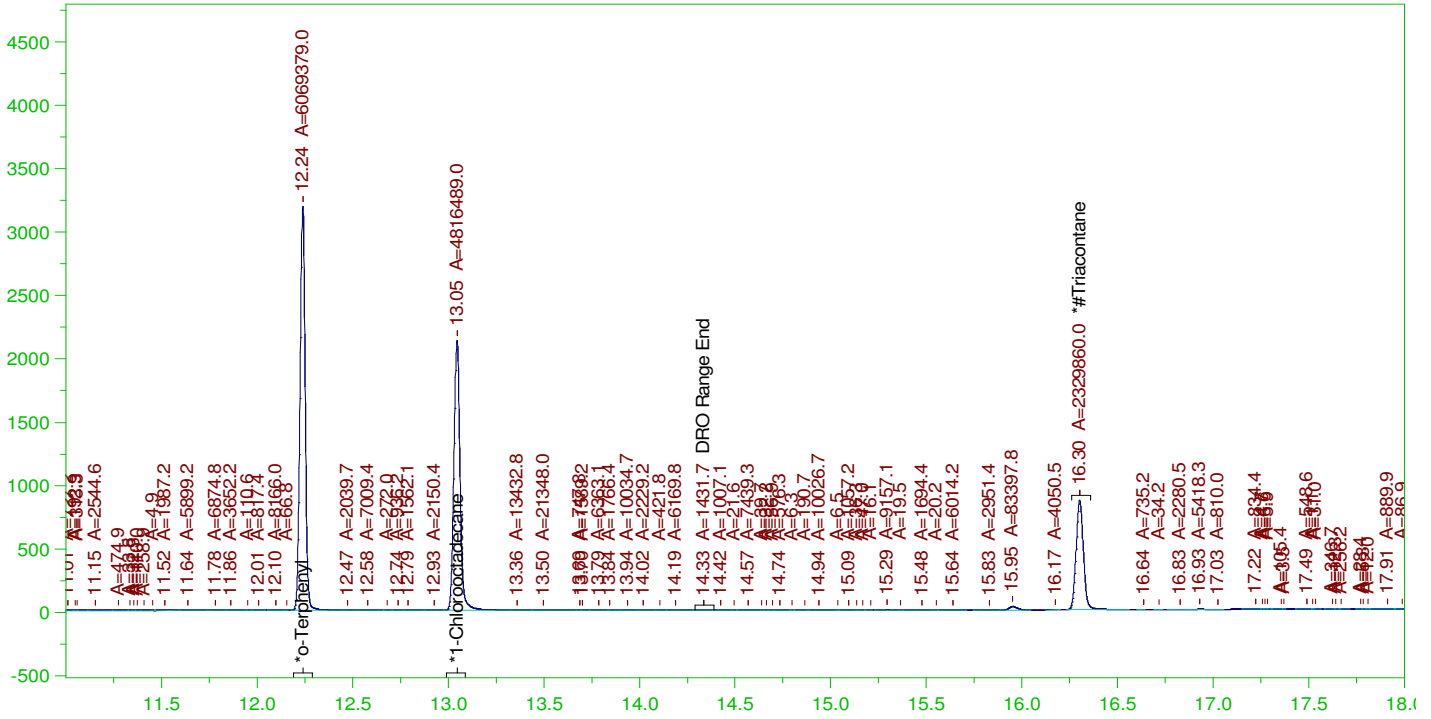
Sample Name: MB-161348 ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0011.RAW
 Date & Time Acquired: 11/18/2021 4:21:00 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF-SAMP.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.66

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.301	.5	.081	16.23	-

RRO Area:185359.8 RRO AMOUNT: 6.49419E-03

Batch ID: 161348
G:\org\HP5\DAT\HP5111821_b\1118HP5.0011.RAW MB-161348 ;1118HP5 , SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-161348 ;1118HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0011.RAW
Date & Time Acquired: 11/18/2021 4:21:00 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-ID-L#.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.239	.2	.171	85.46	-
*1-Chlorooctadecane	13.045	.2	.136	67.82	-
*#Triacontane	16.301	.2	.081	40.27	-

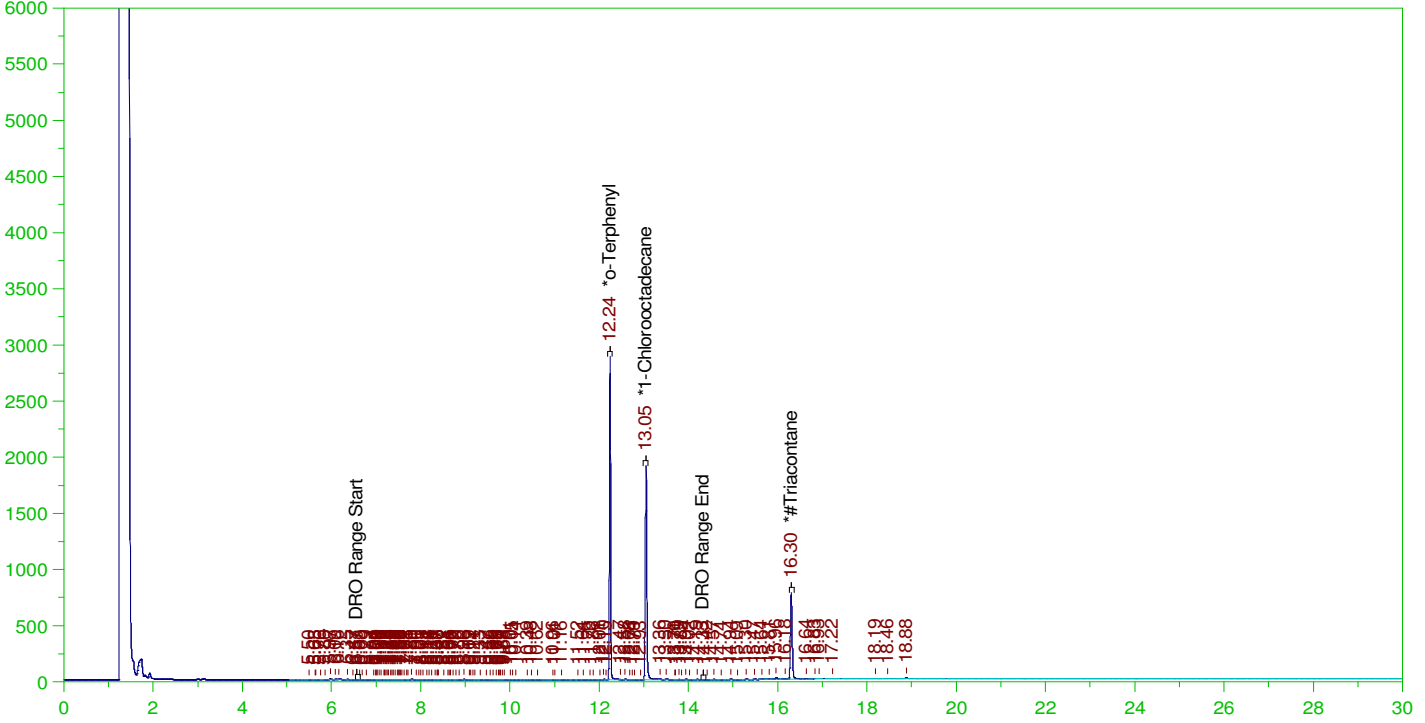
DRO Area:291621 DRO Amount: 9.301157E-03
TEH Area:572805.1 TEH Amount: 1.826943E-02

ERH1905 (RHM2254-01)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0012.RAW

B21111298-005A ;1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-005A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0012.RAW
 Date & Time Acquired: 11/18/2021 5:04:14 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.24	.19	.149	78.	-
*1-Chlorooctadecane	13.046	.19	.115	60.48	-
*#Triacontane	16.301	.19	.07	36.53	-

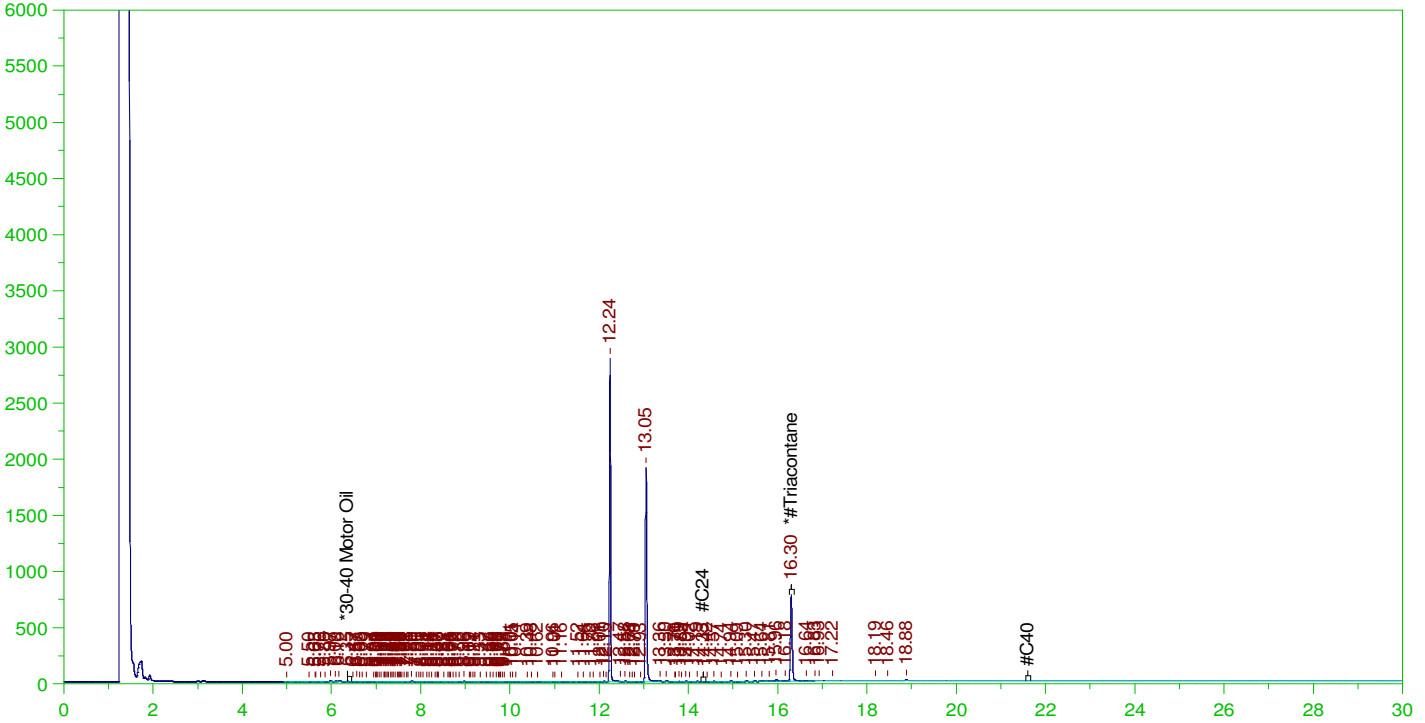
DRO Area:290379.6 DRO Amount: 8.820538E-03
 TEH Area:527979.2 TEH Amount: 1.603783E-02

ERH1905 (RHM2254-01)

G:\org\HP5\DAT\HP5111821_b\1118HP5.0012.RAW

Batch ID: 161348

B21111298-005A ;1118HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-005A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0012.RAW
 Date & Time Acquired: 11/18/2021 5:04:14 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF-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: 14.29 to 21.66

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.301	.476	.07	14.61	-

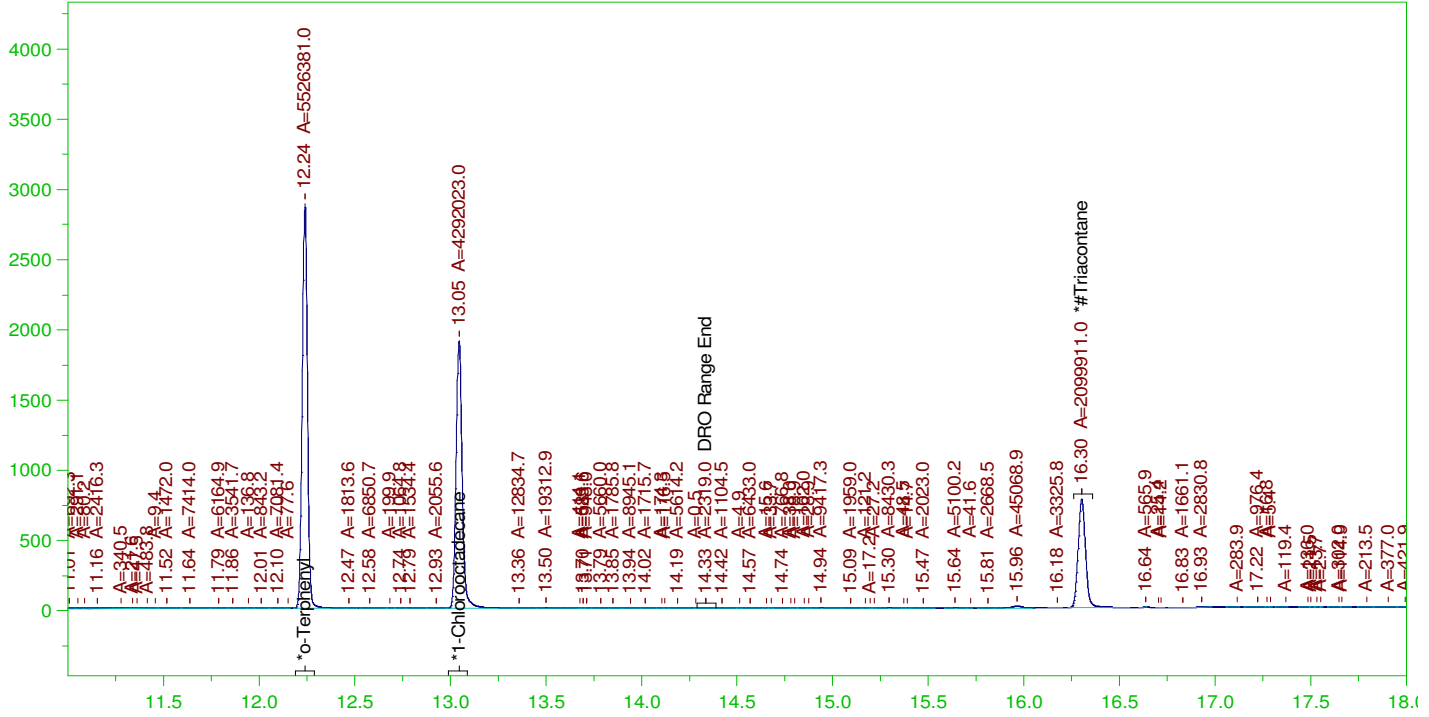
RRO Area:130525.5 RRO AMOUNT: 4.355275E-03

ERH1905 (RHM2254-01)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0012.RAW

B21111298-005A ;1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-005A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0012.RAW
 Date & Time Acquired: 11/18/2021 5:04:14 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-ID-L#.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.24	.19	.148	77.82
*1-Chlorooctadecane	13.046	.19	.115	60.44
*#Triacontane	16.301	.19	.069	36.29

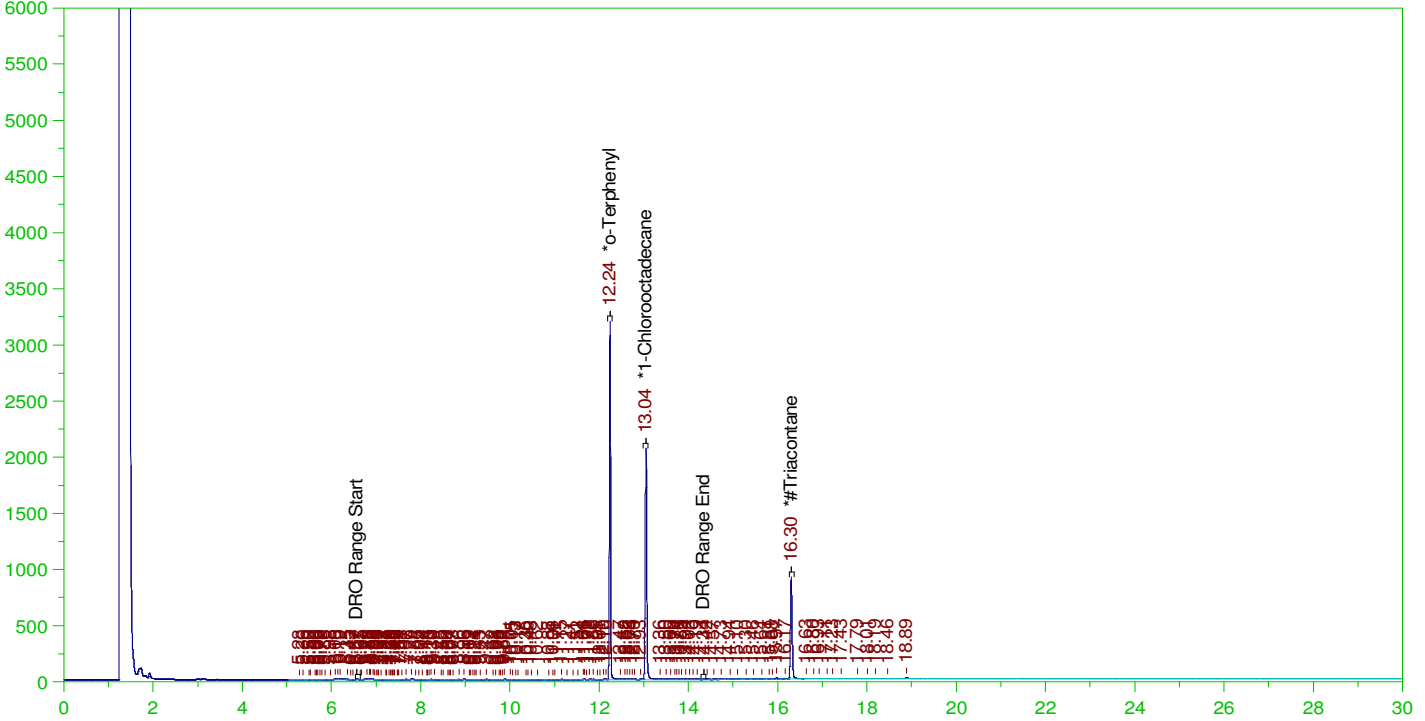
DRO Area:298846.6 DRO Amount: 9.07773E-03
 TEH Area:568403.9 TEH Amount: 1.726577E-02

ERH1902 (RHMW05)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0013.RAW

B21111298-004A ;1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-004A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0013.RAW
 Date & Time Acquired: 11/18/2021 5:47:38 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.239	.2	.171	85.65	-
*1-Chlorooctadecane	13.045	.2	.131	65.58	-
*#Triacontane	16.301	.2	.084	42.11	-

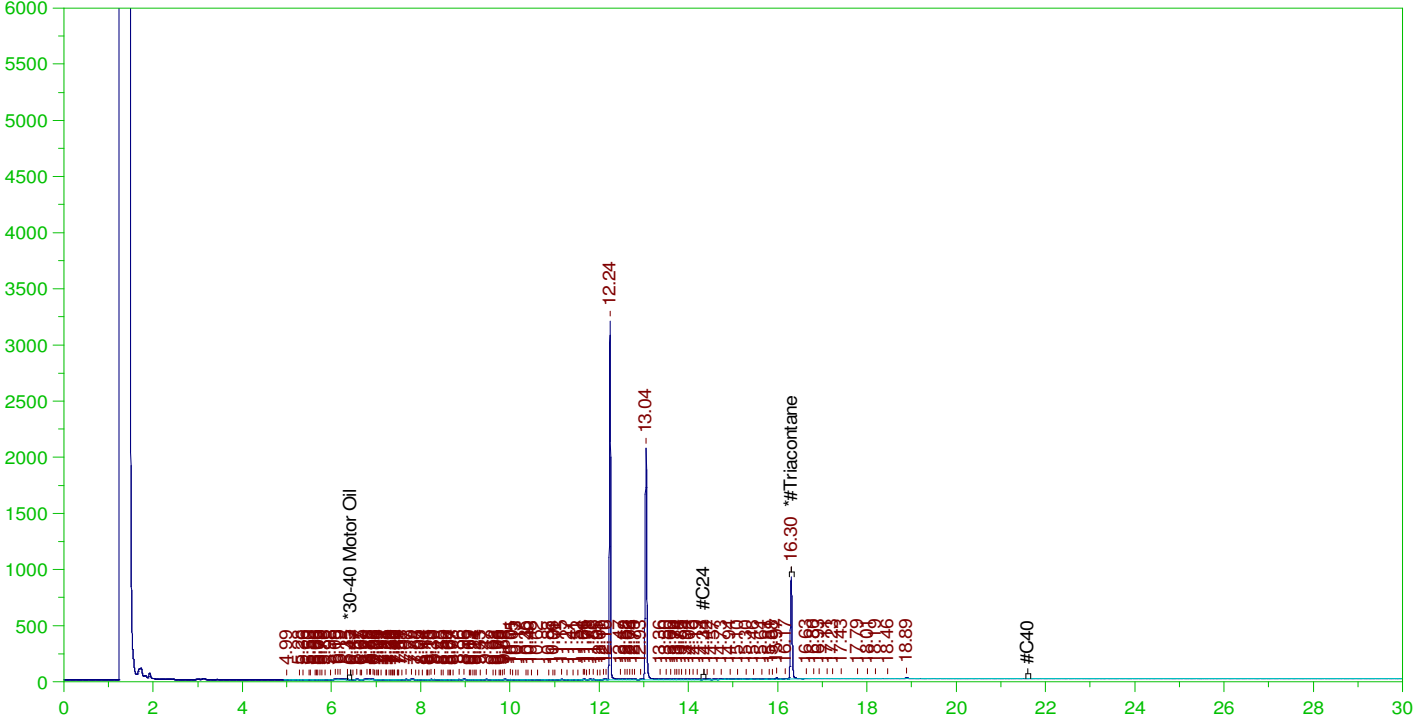
DRO Area:383190.7 DRO Amount: 1.222174E-02
 TEH Area:616157.4 TEH Amount: 1.965214E-02

ERH1902 (RHMW05)

G:\org\HP5\DAT\HP5111821_b\1118HP5.0013.RAW

Batch ID: 161348

B21111298-004A ;1118HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-004A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0013.RAW
 Date & Time Acquired: 11/18/2021 5:47:38 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF-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: 14.29 to 21.66

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.301	.5	.084	16.84

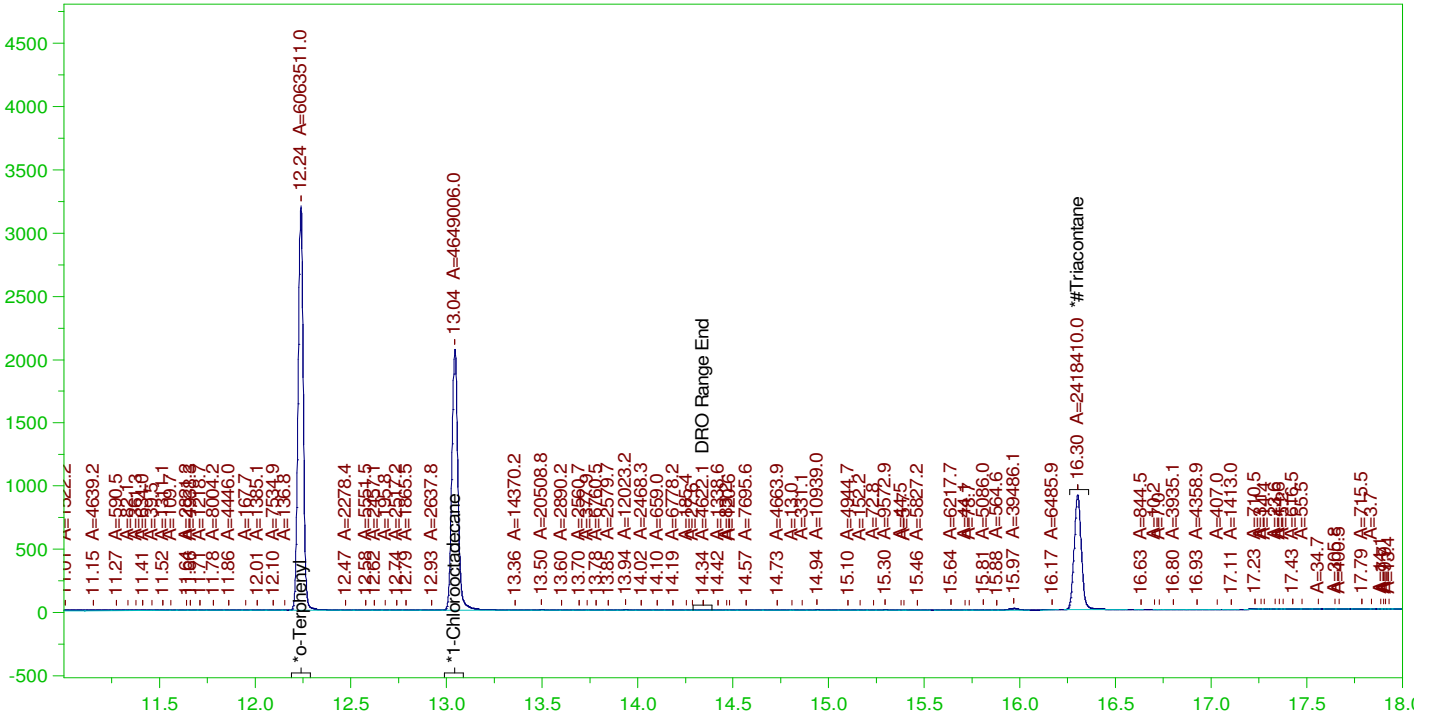
RRO Area:157777.5 RRO AMOUNT: 5.527826E-03

ERH1902 (RHMW05)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0013.RAW

B21111298-004A ; 1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-004A ; 1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0013.RAW
 Date & Time Acquired: 11/18/2021 5:47:38 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-ID-L#.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.239	.2	.171	85.38	-
*1-Chlorooctadecane	13.045	.2	.131	65.46	-
*#Triacontane	16.301	.2	.084	41.8	-

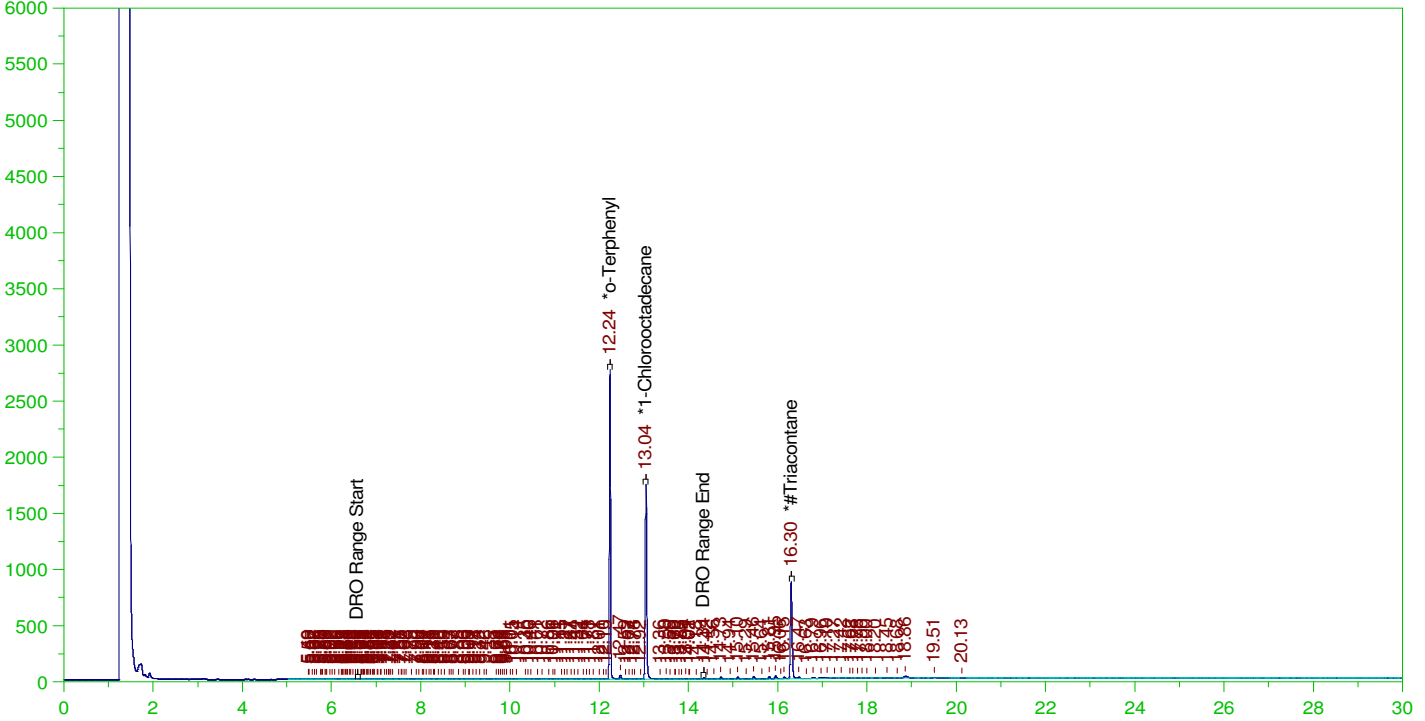
DRO Area: 396853.8 DRO Amount: 1.265753E-02
 TEH Area: 697833.3 TEH Amount: 2.225717E-02

ERH1899 (RHMW03)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0014.RAW

B21111298-003A ;1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-003A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0014.RAW
 Date & Time Acquired: 11/18/2021 6:30:50 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.238	.192	.145	75.32	-
*1-Chlorooctadecane	13.044	.192	.106	55.17	-
*#Triacontane	16.3	.192	.078	40.46	-

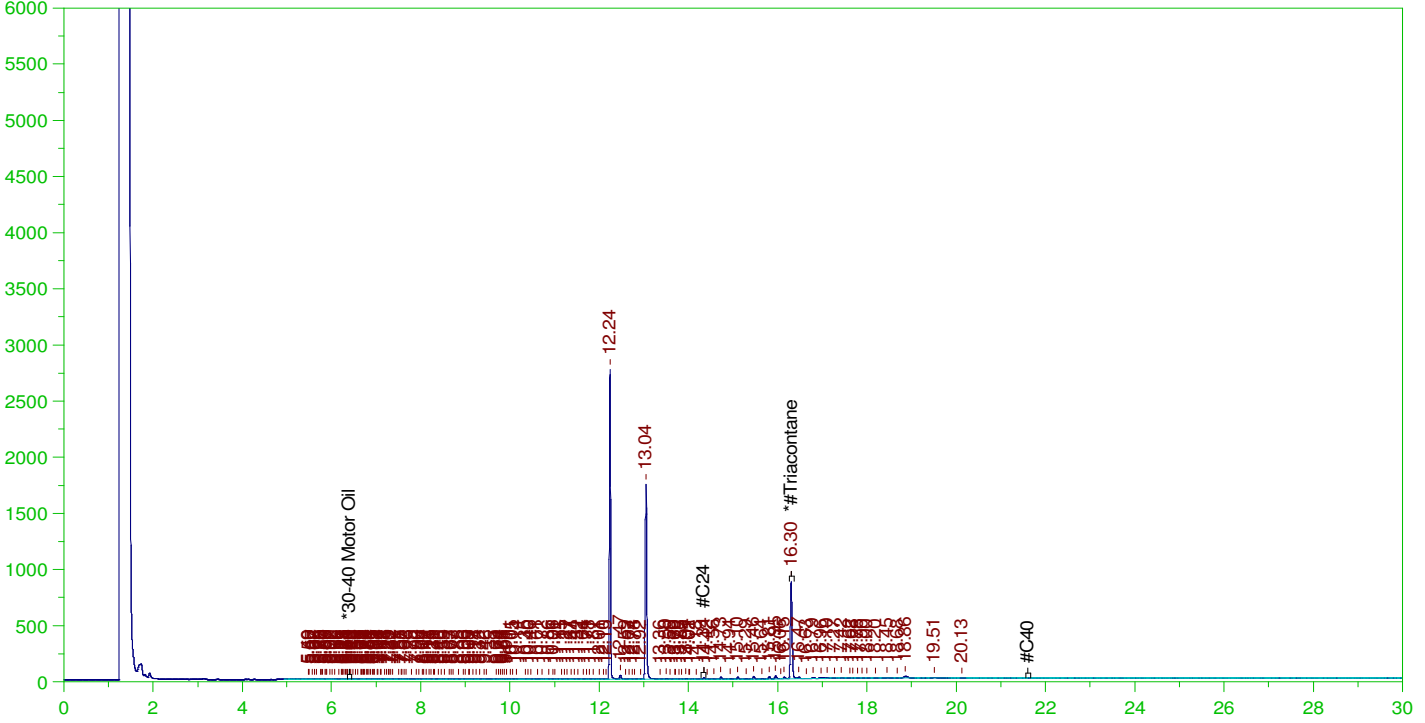
DRO Area:457928.2 DRO Amount: 1.404372E-02
 TEH Area:1309759 TEH Amount: 4.016764E-02

ERH1899 (RHMW03)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0014.RAW

B21111298-003A ;1118HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-003A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0014.RAW
 Date & Time Acquired: 11/18/2021 6:30:50 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF-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: 14.29 to 21.66

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.3	.481	.078	16.19

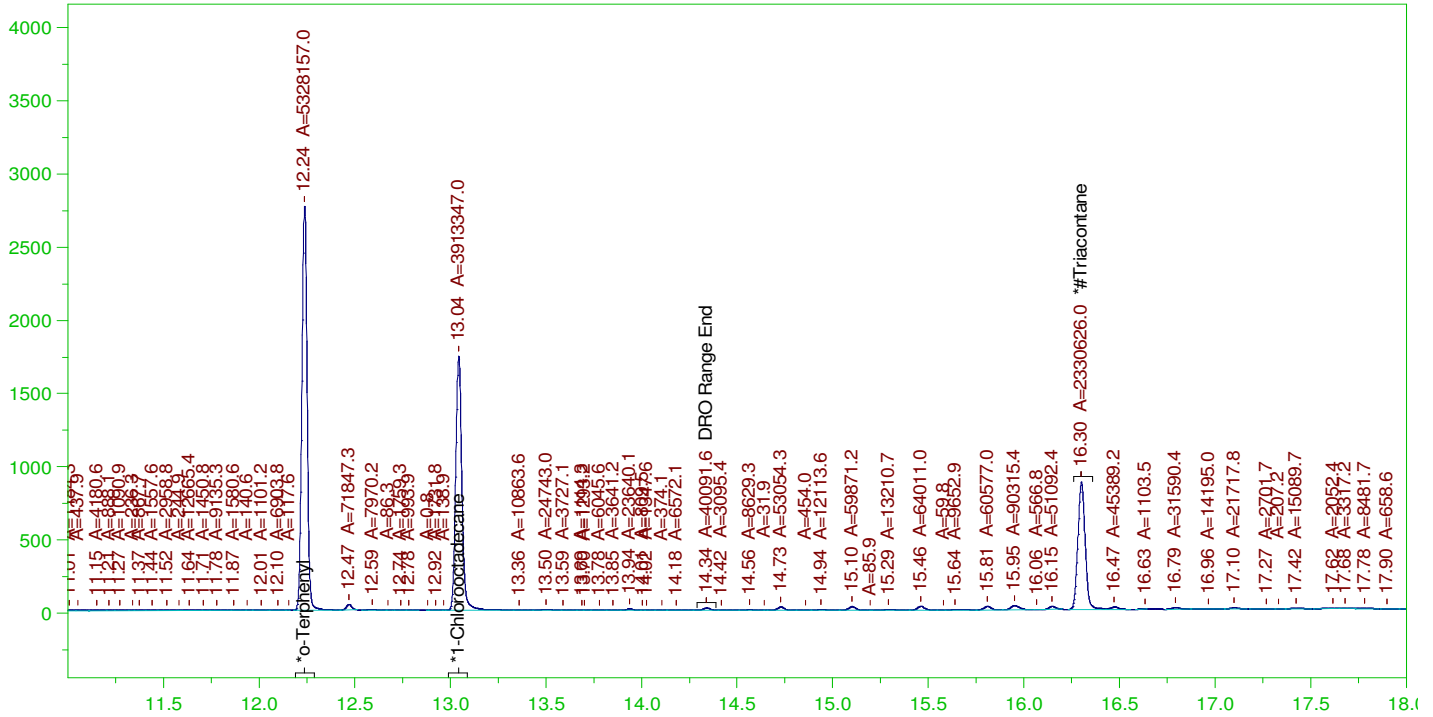
RRO Area:846145.4 RRO AMOUNT: 0.028505

ERH1899 (RHMW03)

Batch ID: 161348

G:\Org\HP5\DAT\HP5111821_b\1118HP5.0014.RAW

B21111298-003A ; 1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

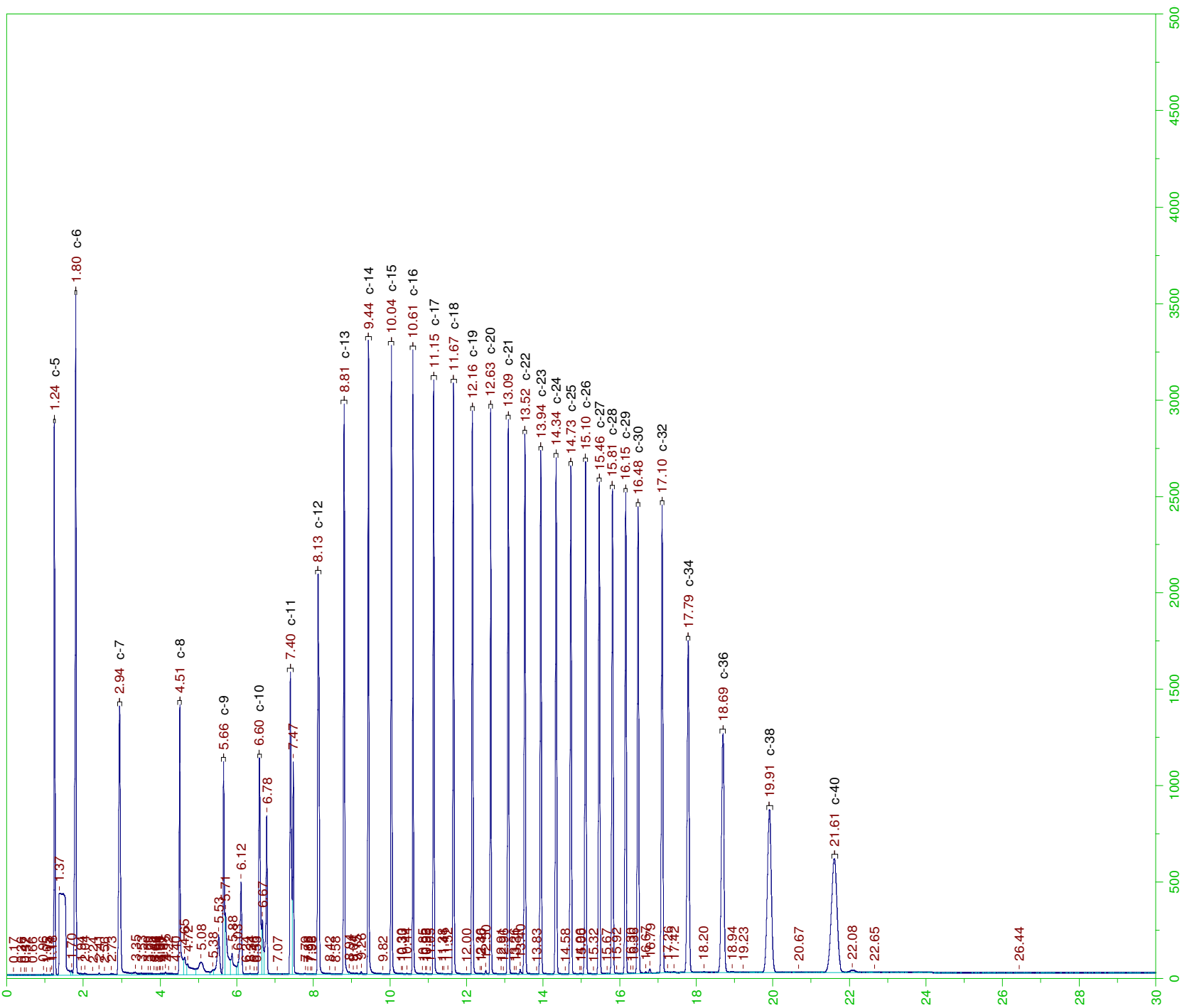
Sample Name: B21111298-003A ; 1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\Org\HP5\DAT\HP5111821_b\1118HP5.0014.RAW
 Date & Time Acquired: 11/18/2021 6:30:50 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-ID-L#.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

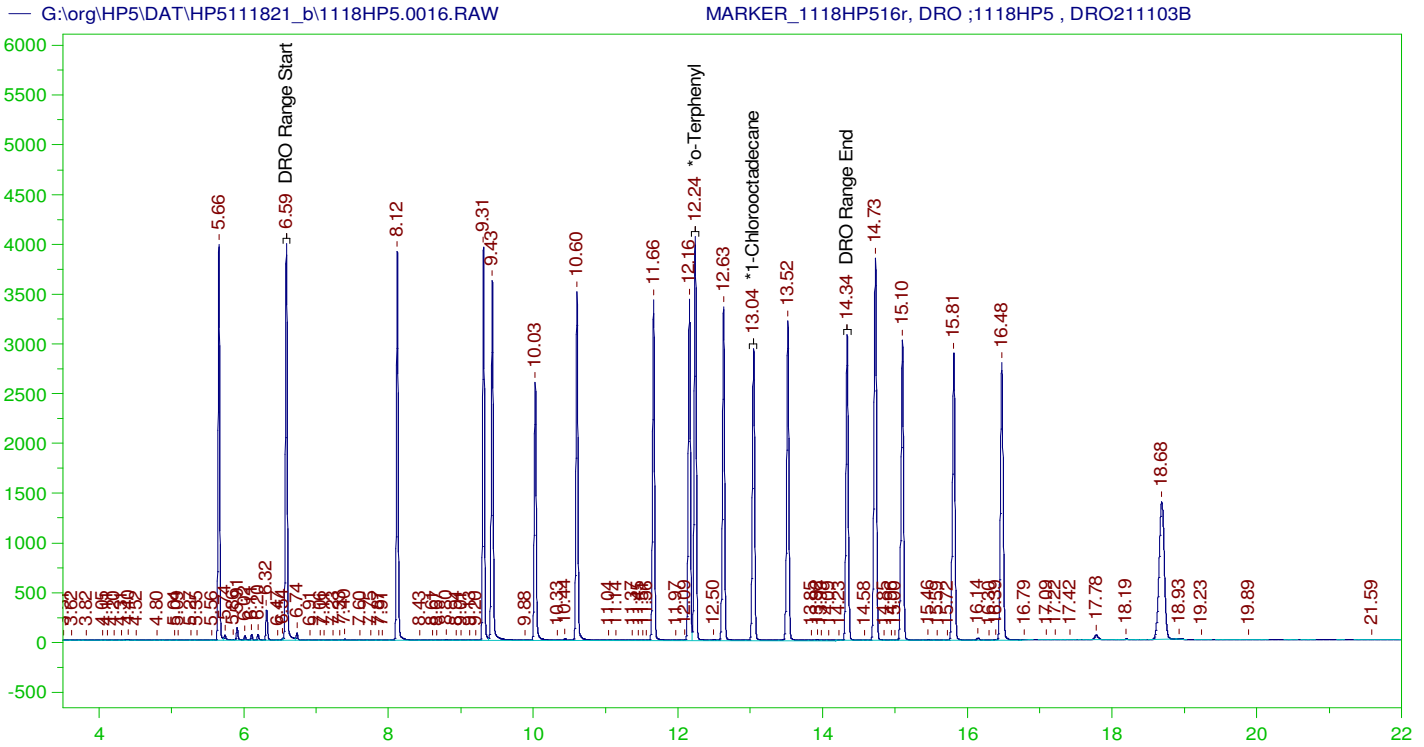
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.238	.192	.144	75.02
*1-Chlorooctadecane	13.044	.192	.106	55.1
*#Triacontane	16.3	.192	.077	40.28

DRO Area: 464650.8 DRO Amount: 1.424989E-02
 TEH Area: 1386332 TEH Amount: 4.251597E-02





DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

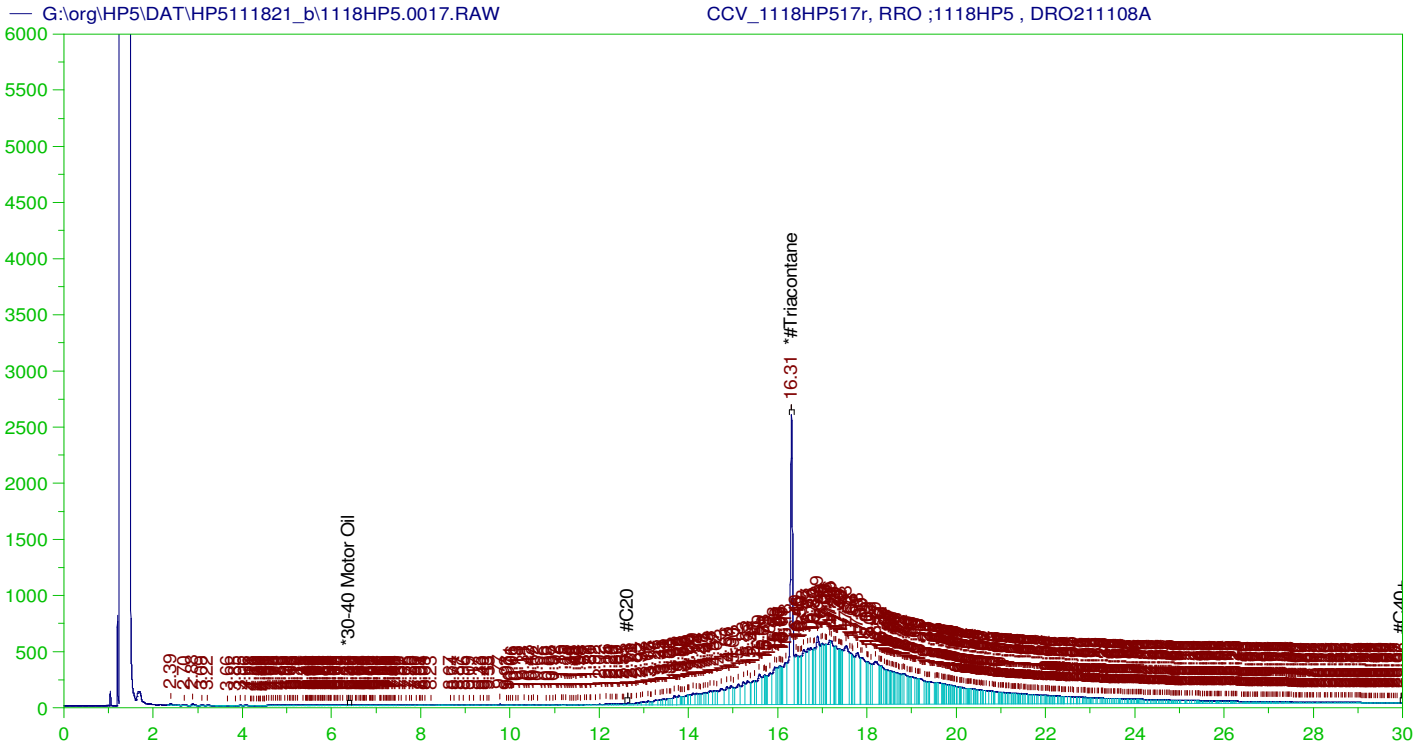
Sample Name: MARKER_1118HP516r, DRO ;1118HP5 , DRO211103B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0016.RAW
 Date & Time Acquired: 11/18/2021 7:56:56 PM
 Method File: G:\Org\HP5\Methods\DC_8015-24-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.239	.2	.217	108.55
*1-Chlorooctadecane	13.045	.2	.176	88.06

DRO Area: 7.331106E+07 DRO Amount: 2.338233
 TEH Area: 1.187733E+08 TEH Amount: 3.788238



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1118HP517r, RRO ;1118HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0017.RAW
 Date & Time Acquired: 11/18/2021 8:39:50 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.308	500.	334.19	66.84	-

~~RRO~~ TEH(Oil Range)Area:1.314767E+08 ~~RRO~~ TEH(Oil Range)AMOUNT: 4606.361

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0017.RAW

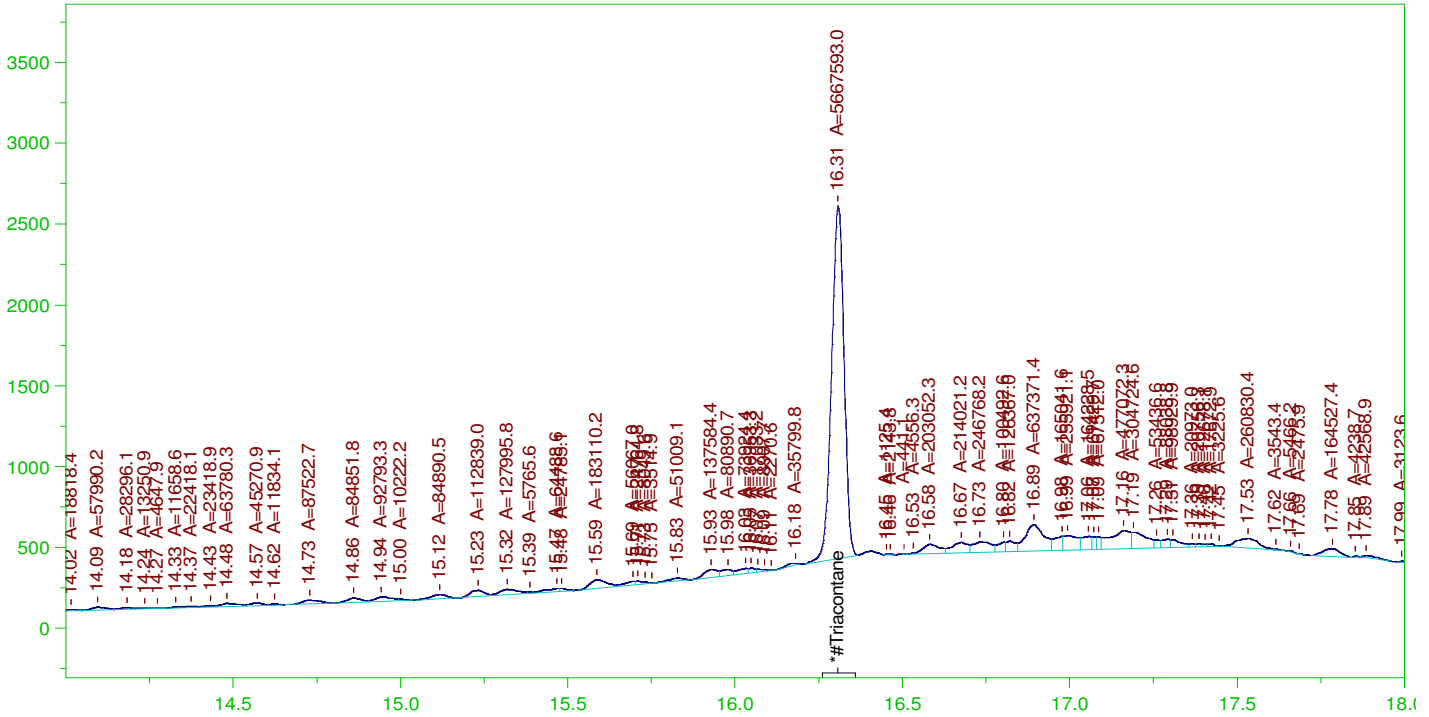
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.051	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.308	200.	334.19	167.09	75-125

AMN 11/19/2021

G:\org\HP5\DAT\HP5111821_b\1118HP5.0017.RAW

CCV_1118HP517r, RRO ;1118HP5 , DRO211108A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1118HP517r, RRO ;1118HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0017.RAW
 Date & Time Acquired: 11/18/2021 8:39:50 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.308	500.	195.906	39.18	-

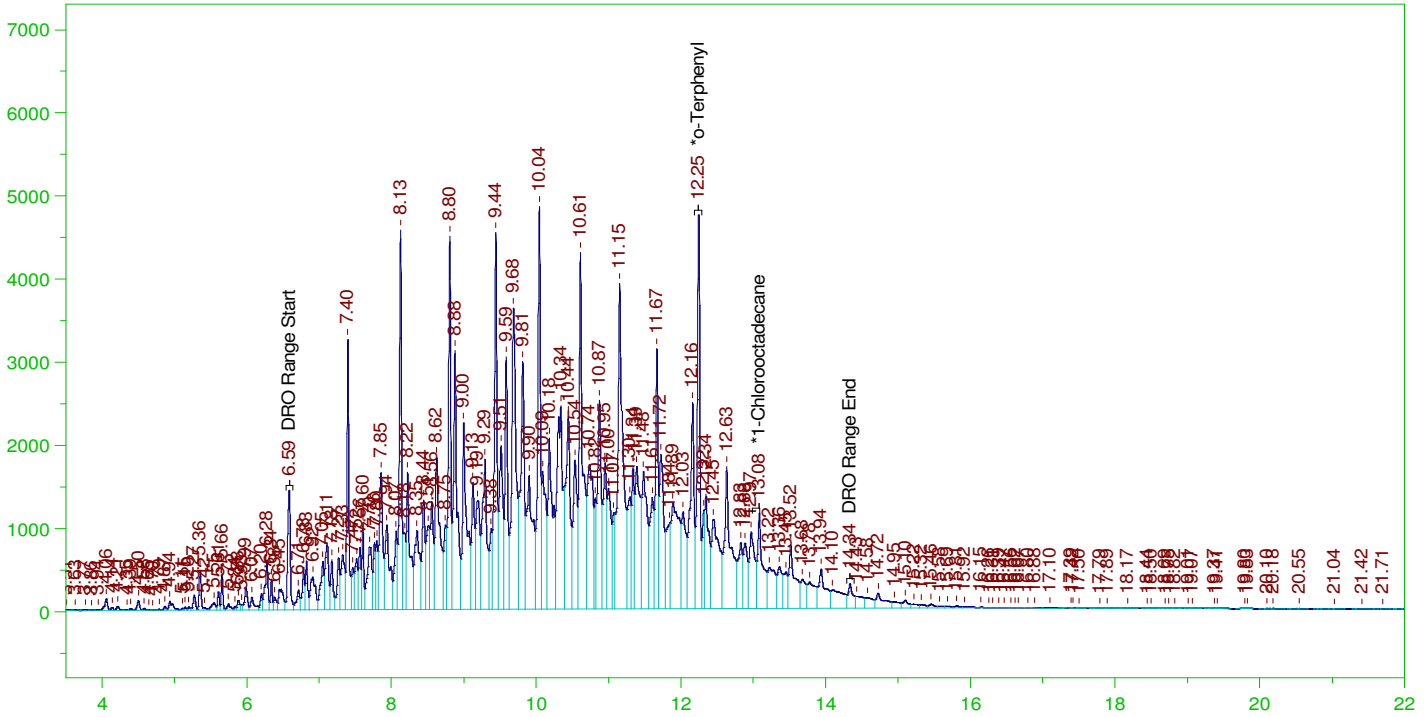
RRO Area:6333280 RRO AMOUNT: 221.8901

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0017.RAW
 COMPOUND ACTUAL (NG) MEASURED (NG) %RECOVERY LIMITS
 *30-40 Motor Oil 5000. .051 . 75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.308	200.	195.906	97.95	75-125

G:\org\HP5\DAT\HP5111821_b\1118HP5.0018.RAW

CCV_1118HP518r, DRO 8015;1118HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1118HP518r, DRO 8015;1118HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0018.RAW
 Date & Time Acquired: 11/18/2021 9:22:53 PM
 Method File: G:\Org\HP5\Methods\DC_8015-24-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

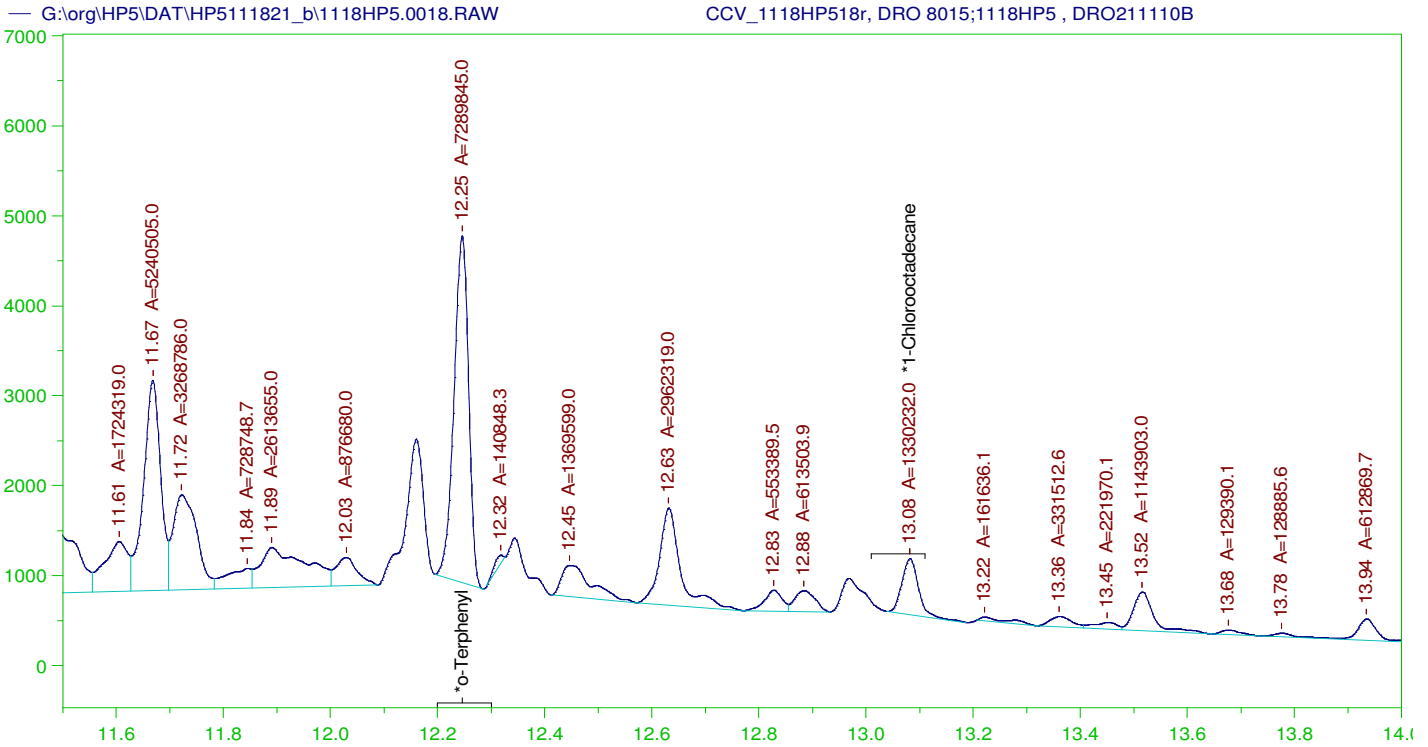
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.246	200.	341.211	170.61
*1-Chlorooctadecane	13.082	200.	163.671	81.84

DRO Area: 4.740659E+08 DRO Amount: 15120.18
 TEH Area: 4.916921E+08 TEH Amount: 15682.36

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0018.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15682.36	104.55	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.246	200.	341.211	170.61	85-115
*1-Chlorooctadecane	13.082	200.	163.671	81.84	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1118HP518r, DRO 8015;1118HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0018.RAW
 Date & Time Acquired: 11/18/2021 9:22:53 PM
 Method File: G:\Org\HP5\Methods\DS_8015-24-ID-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

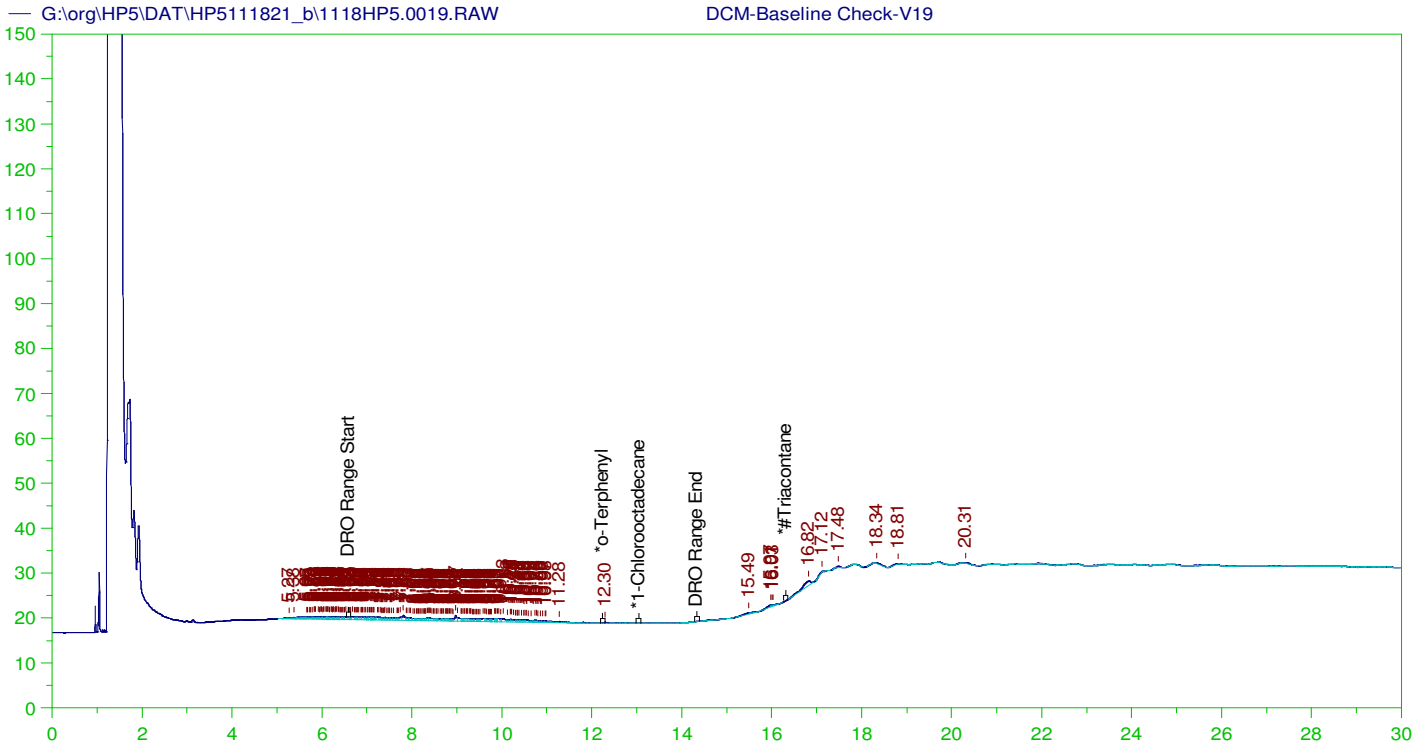
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.246	200.	205.295	102.65
*1-Chlorooctadecane	13.082	200.	37.462	18.73

DRO Area: 2.626939E+08 DRO Amount: 8378.539
 TEH Area: 2.733909E+08 TEH Amount: 8719.715

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0018.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8719.72	58.13	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.246	200.	205.295	102.65	85-115
*1-Chlorooctadecane	13.082	200.	37.462	18.73	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V19
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0019.RAW
 Date & Time Acquired: 11/18/2021 10:05:45 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L0.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.971	200.	.	-
*1-Chlorooctadecane	29.971	200.	.	-
*Triacontane	29.971	200.	.	-

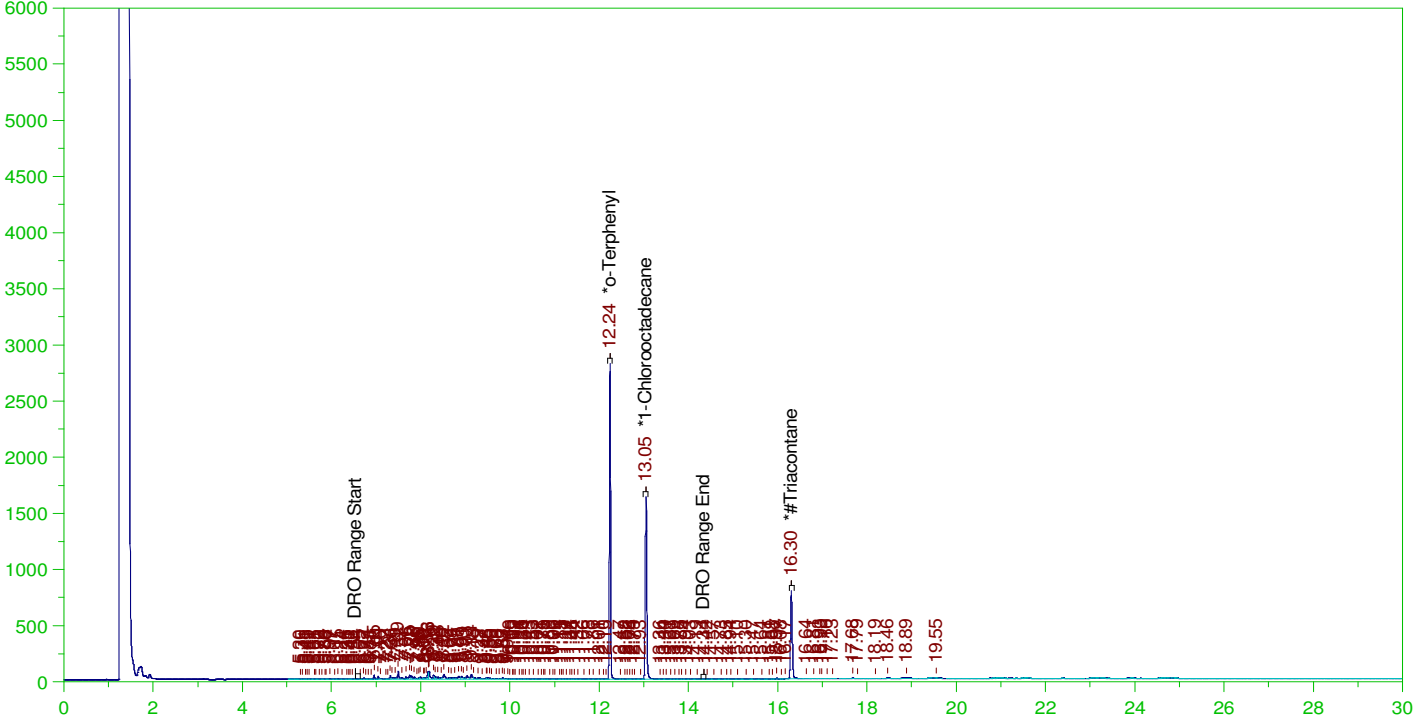
DRO Area:171728 DRO Amount: 5.477208
 TEH Area:255718.1 TEH Amount: 8.156047

ERH1893 (RHMW01R)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0020.RAW

B21111298-001A ;1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-001A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0020.RAW
 Date & Time Acquired: 11/18/2021 10:48:39 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 900 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.239	.222	.17	76.44	-
*1-Chlorooctadecane	13.045	.222	.116	52.38	-
*#Triacontane	16.303	.222	.082	36.84	-

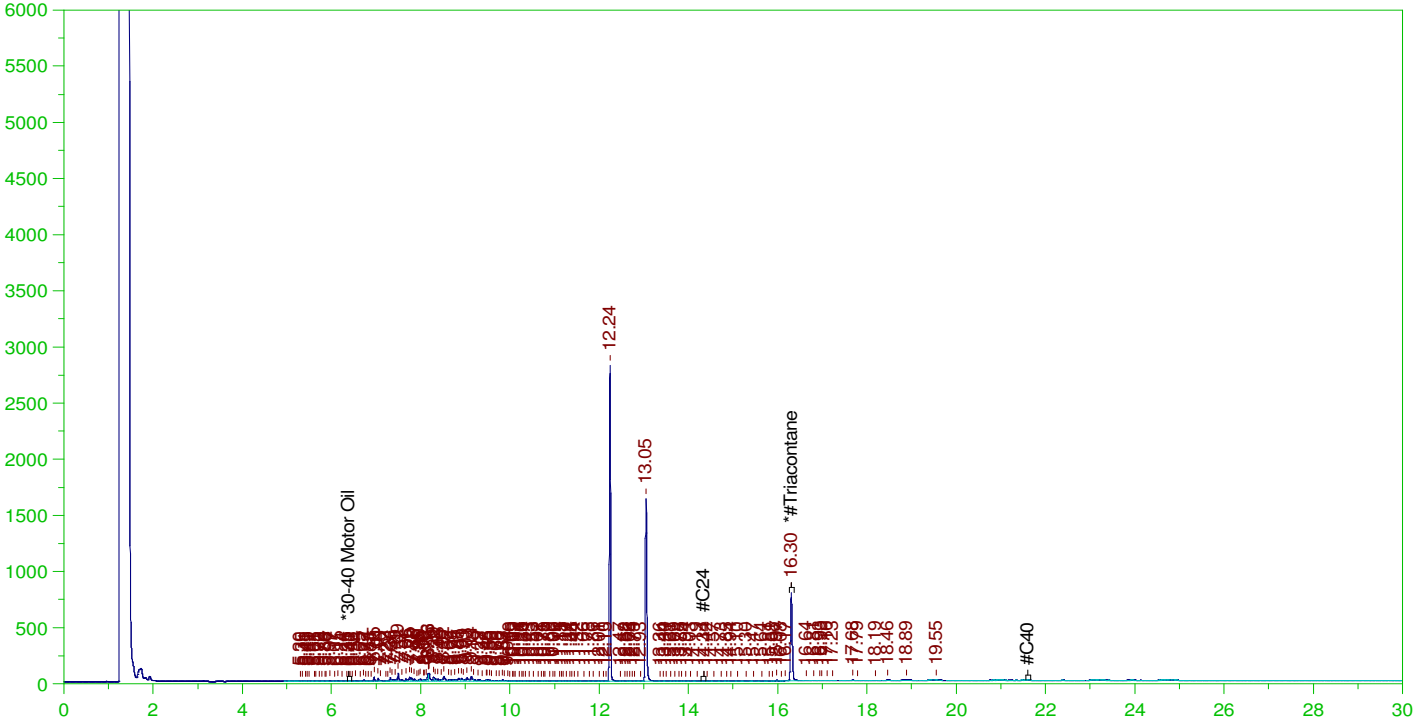
DRO Area:3212647 DRO Amount: 0.1138515
 TEH Area:3465239 TEH Amount: 0.122803

ERH1893 (RHMW01R)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0020.RAW

B21111298-001A ;1118HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-001A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0020.RAW
 Date & Time Acquired: 11/18/2021 10:48:39 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF-SAMP.CAL
 Sample Weight: 900 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.66

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.303	.556	.082	14.74

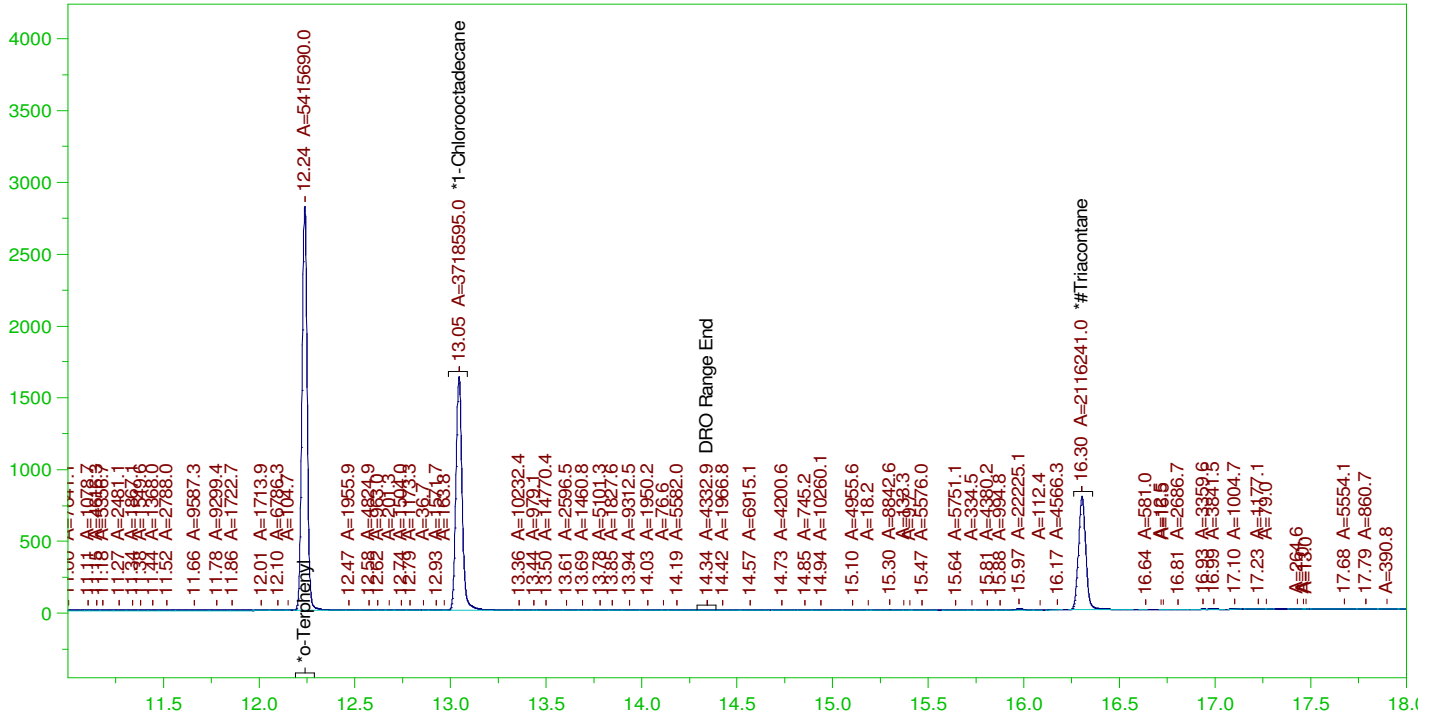
RRO Area:147438.4 RRO AMOUNT: 5.739543E-03

ERH1893 (RHMW01R)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0020.RAW

B21111298-001A ; 1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-001A ; 1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0020.RAW
 Date & Time Acquired: 11/18/2021 10:48:39 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-ID-L#.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 900 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

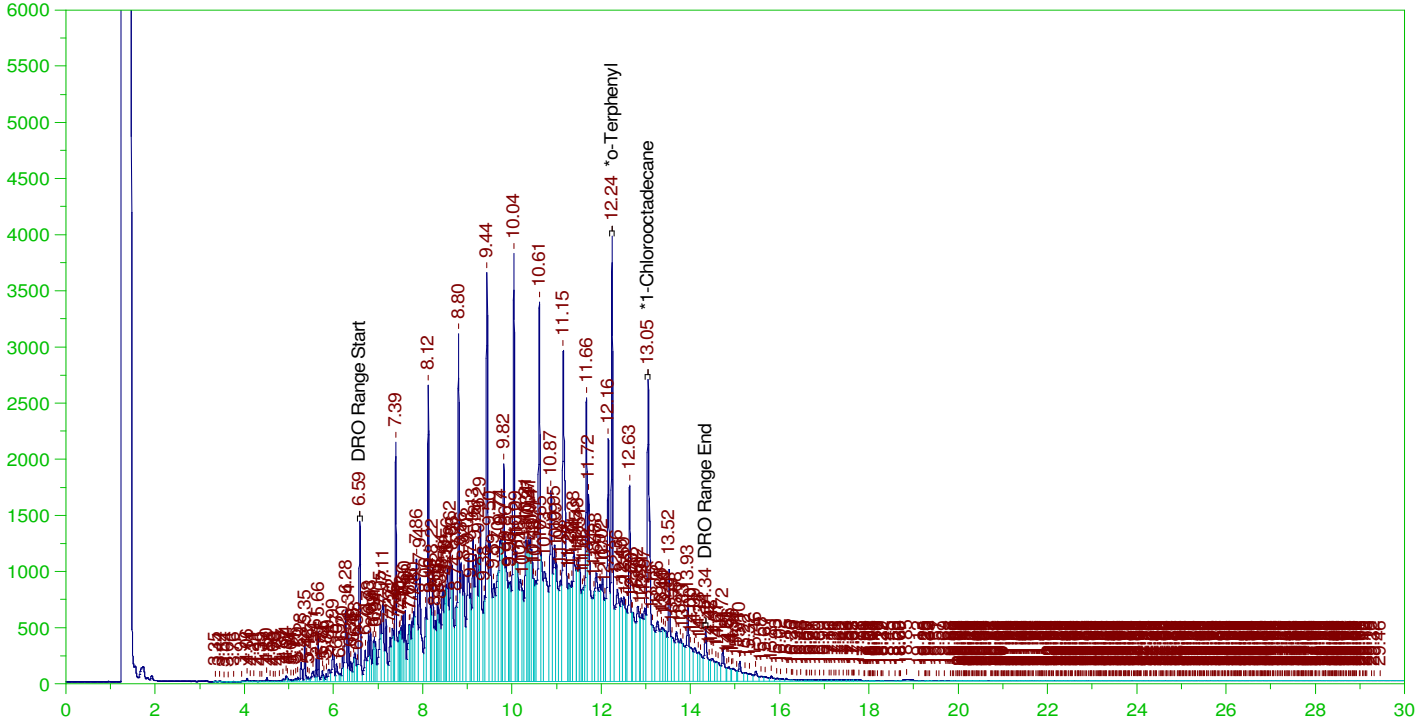
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.239	.222	.169	76.26
*1-Chlorooctadecane	13.045	.222	.116	52.36
*#Triacontane	16.303	.222	.081	36.58

DRO Area: 3288689 DRO Amount: 0.1165463
 TEH Area: 3626554 TEH Amount: 0.1285197

Batch ID: 161348

B21111298-001AMS ;1118HP5 , SGT

G:\org\HP5\DAT\HP5111821_b\1118HP5.0021.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-001AMS ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0021.RAW
 Date & Time Acquired: 11/18/2021 11:31:32 PM
 Method File: G:\Org\HP5\Methods\D3_8015-24-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 900 Dilution: 1 S.A.: 1

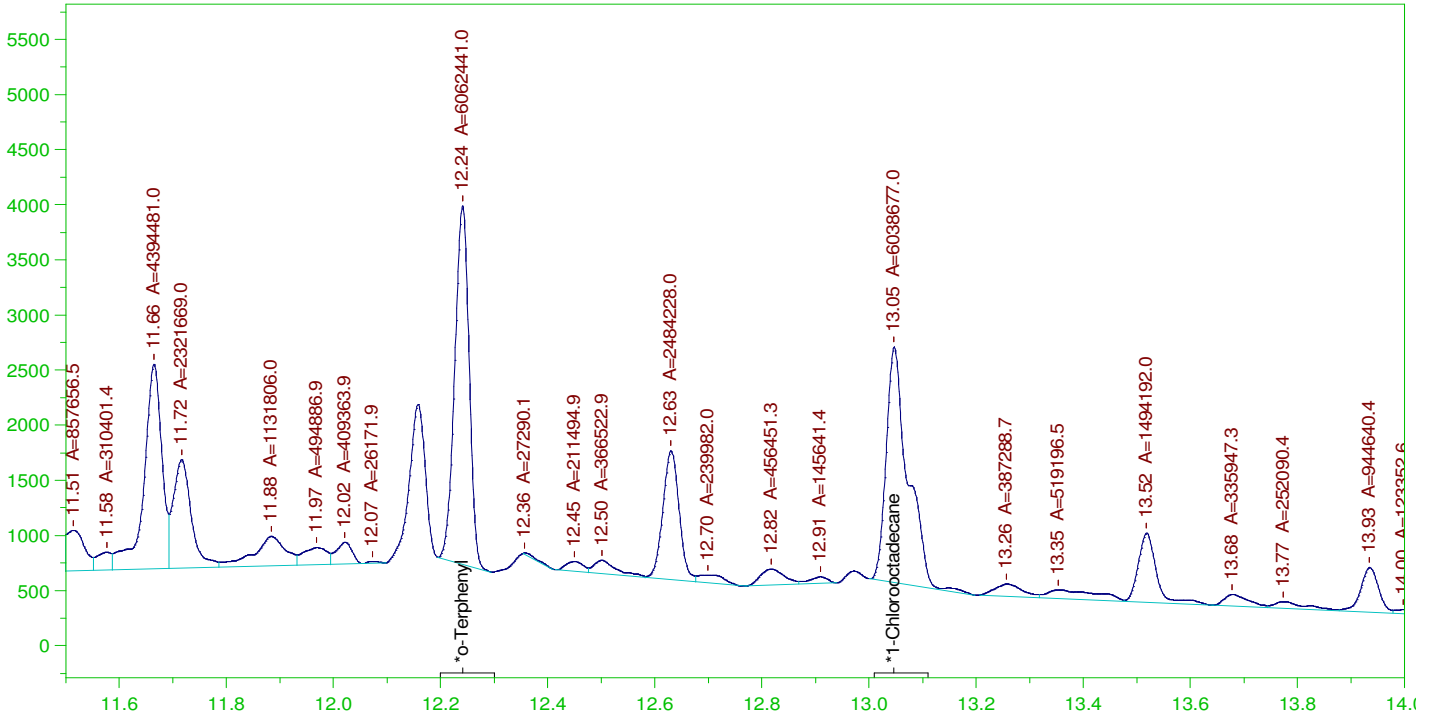
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.241	.222	.325	146.28 -
*1-Chlorooctadecane	13.047	.222	.321	144.49 -

DRO Area: 3.546327E+08 DRO Amount: 12.56766
 TEH Area: 3.775354E+08 TEH Amount: 13.3793

Batch ID: 161348
G:\org\HP5\DAT\HP5111821_b\1118HP5.0021.RAW B21111298-001AMS ;1118HP5 , SGT



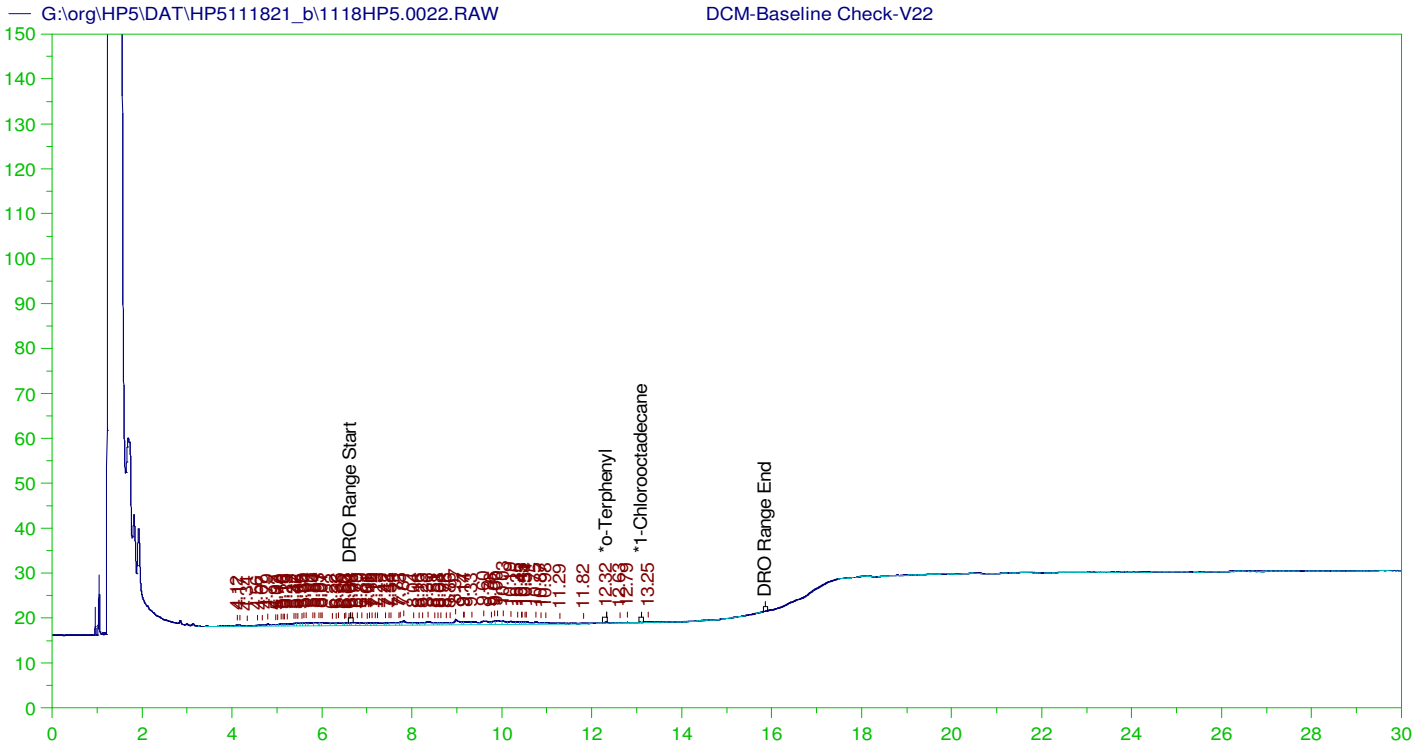
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-001AMS ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0021.RAW
 Date & Time Acquired: 11/18/2021 11:31:32 PM
 Method File: G:\Org\HP5\Methods\DS_8015-24-ID-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 900 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.241	.222	.19	85.36	-
*1-Chlorooctadecane	13.047	.222	.189	85.03	-

DRO Area: 1.688374E+08 DRO Amount: 5.98335
 TEH Area: 1.789331E+08 TEH Amount: 6.341127



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V22
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0022.RAW
 Date & Time Acquired: 11/19/2021 12:14:29 AM
 Method File: G:\Org\HP5\Methods\DR_8015-IA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.321	200.	.039	.02 -
*1-Chlorooctadecane	29.97	200.	.	. -

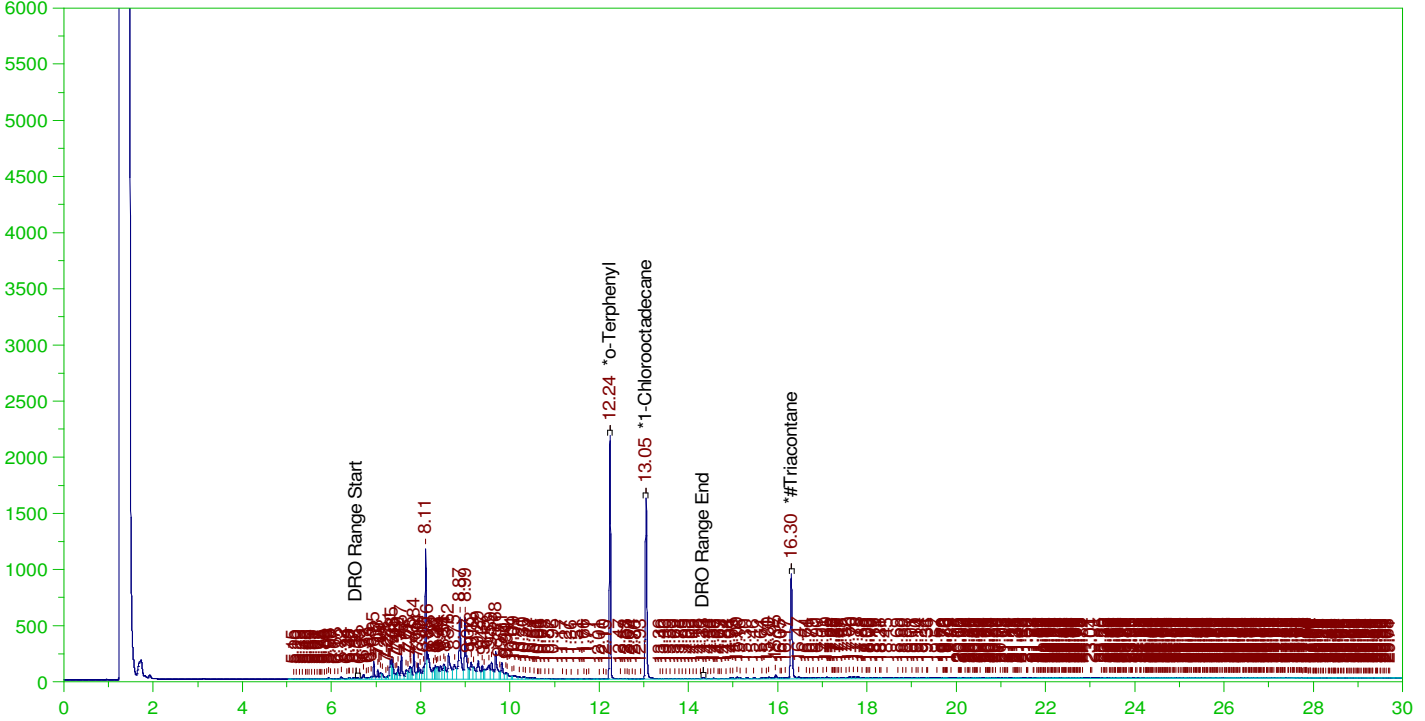
DRO Area:145251 DRO Amount: 4.632733
 TEH Area:212588.7 TEH Amount: 6.780448

ERH1896 (RHMW02)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0023.RAW

B21111298-002A ;1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-002A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0023.RAW
 Date & Time Acquired: 11/19/2021 12:57:17 AM
 Method File: G:\Org\HP5\Methods\D3_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102Id-24-Tri.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.238	.192	.113	58.89	-
*1-Chlorooctadecane	13.045	.192	.099	51.42	-
*#Triacontane	16.302	.192	.085	44.2	-

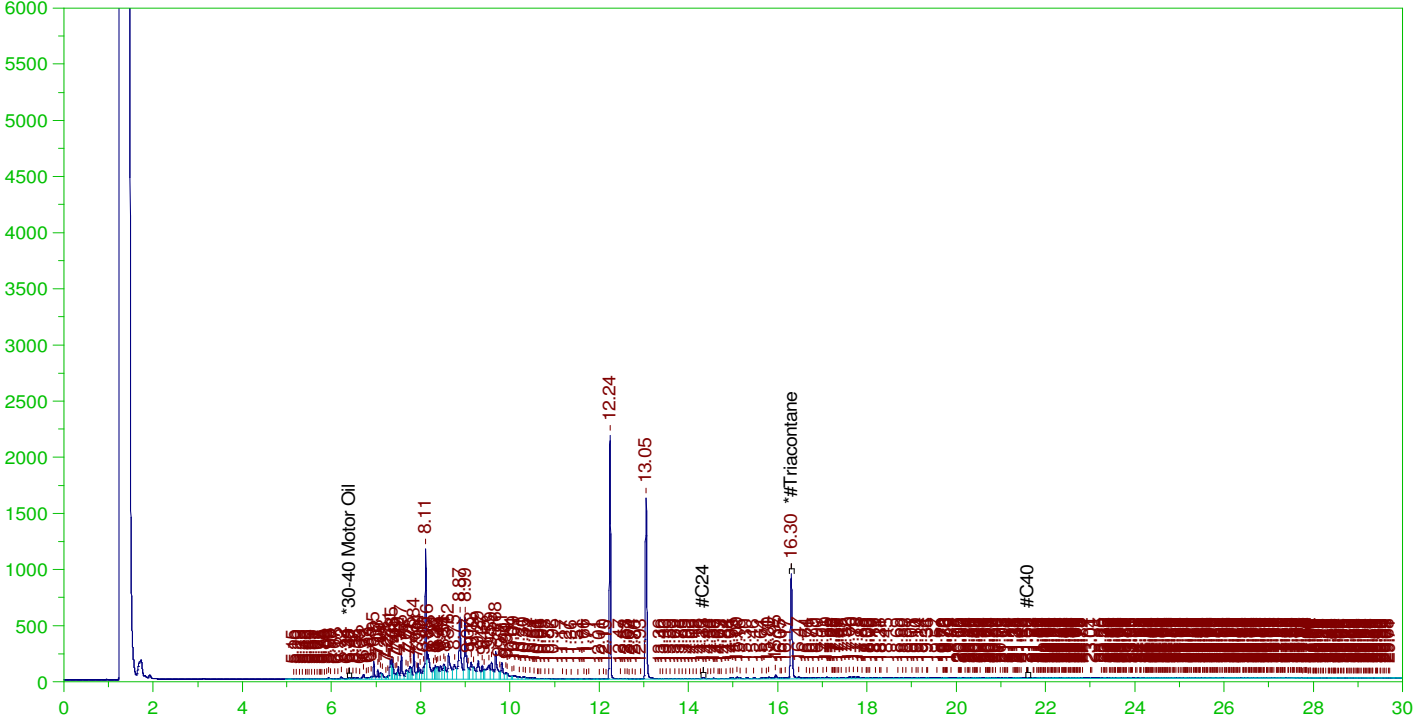
DRO Area: 2.184787E+07 DRO Amount: 0.6700296
 TEH Area: 2.775843E+07 TEH Amount: 0.8512943

ERH1896 (RHMW02)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0023.RAW

B21111298-002A ;1118HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-002A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0023.RAW
 Date & Time Acquired: 11/19/2021 12:57:17 AM
 Method File: G:\Org\HP5\Methods\D3_OROS-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF-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: 14.29 to 21.66

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.302	.481	.085	17.68

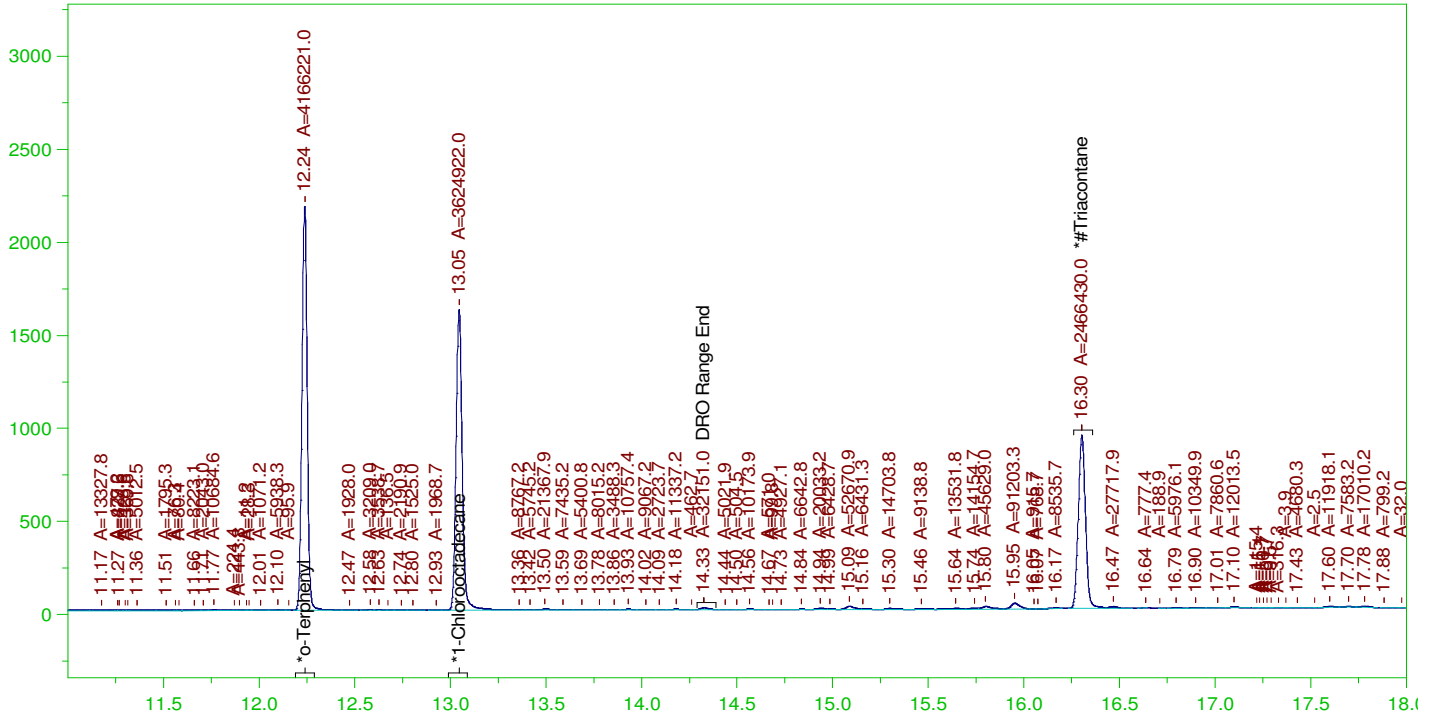
RRO Area:3834421 RRO AMOUNT: 0.1291742

ERH1896 (RHMW02)

Batch ID: 161348

G:\Org\HP5\DAT\HP5111821_b\1118HP5.0023.RAW

B21111298-002A ; 1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

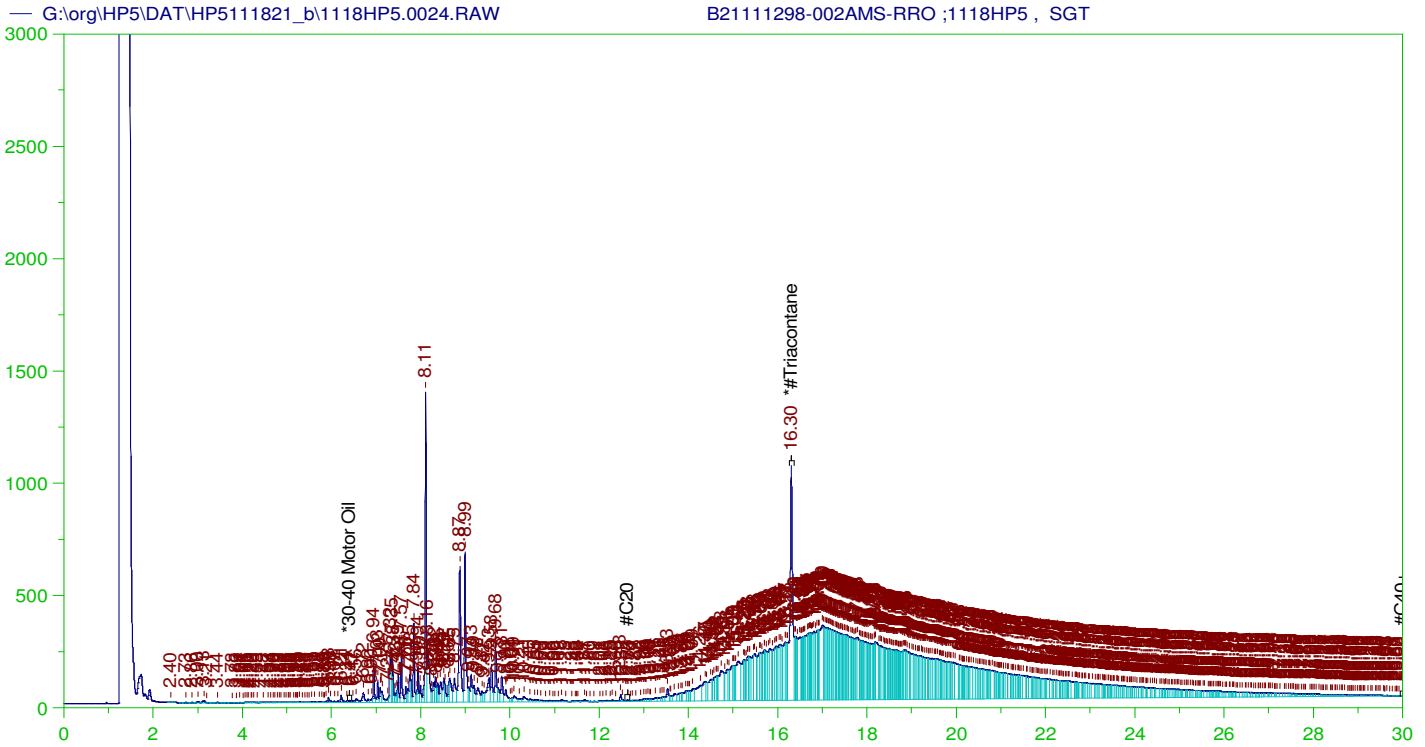
Sample Name: B21111298-002A ; 1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\Org\HP5\DAT\HP5111821_b\1118HP5.0023.RAW
 Date & Time Acquired: 11/19/2021 12:57:17 AM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-ID-L#.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.238	.192	.113	58.66
*1-Chlorooctadecane	13.045	.192	.098	51.04
*#Triacontane	16.302	.192	.082	42.63

DRO Area: 2.174956E+07 DRO Amount: 0.6670148
 TEH Area: 2.26269E+07 TEH Amount: 0.693921



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-002AMS-RRO ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0024.RAW
 Date & Time Acquired: 11/19/2021 1:40:11 AM
 Method File: G:\Org\HP5\Methods\D3_ORO-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.CAL
 Sample Weight: 1040 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: 12.58 to 30.05

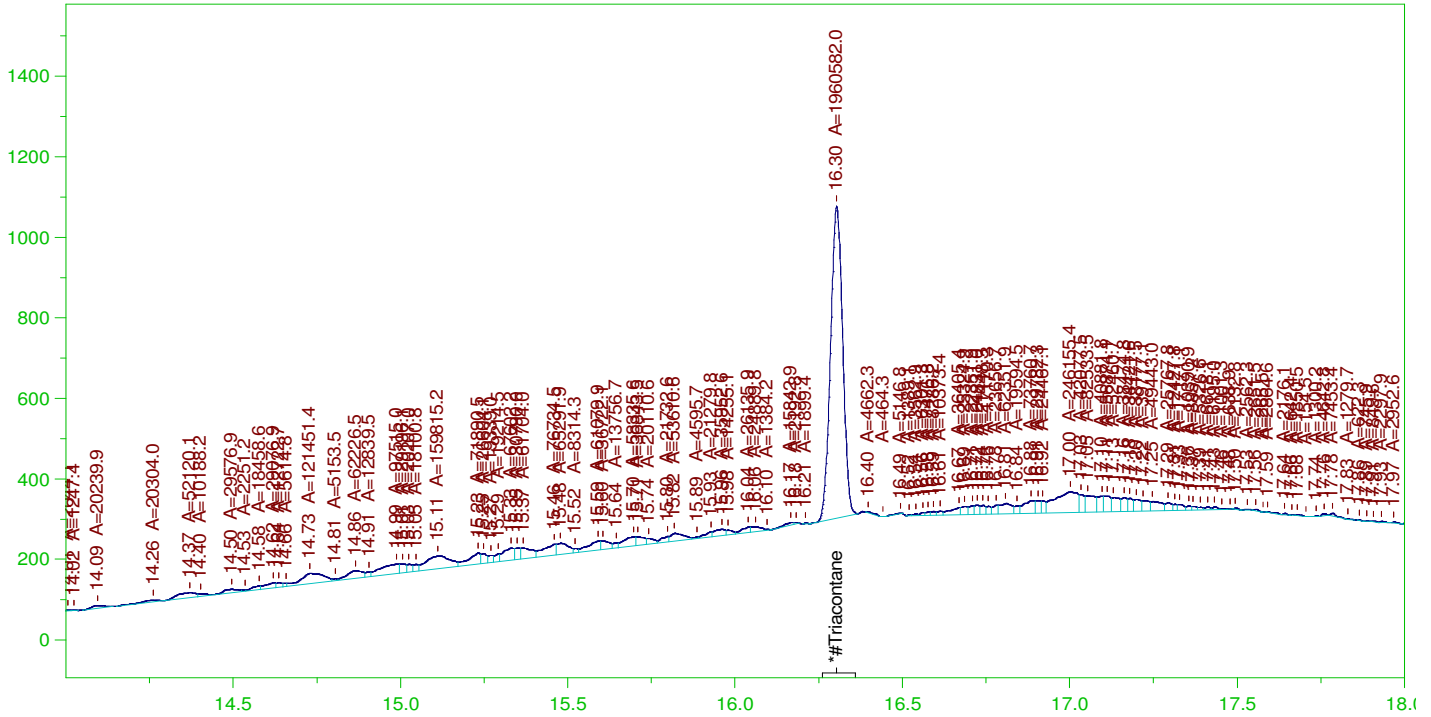
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.303	.481	.141	29.4	-

RRO TEH(Oil Range)Area:1.041758E+08 RRO TEH(Oil Range)AMOUNT: 3.509482

AMN 11/19/2021

G:\org\HP5\DAT\HP5111821_b\1118HP5.0024.RAW

B21111298-002AMS-RRO ;1118HP5 , SGT



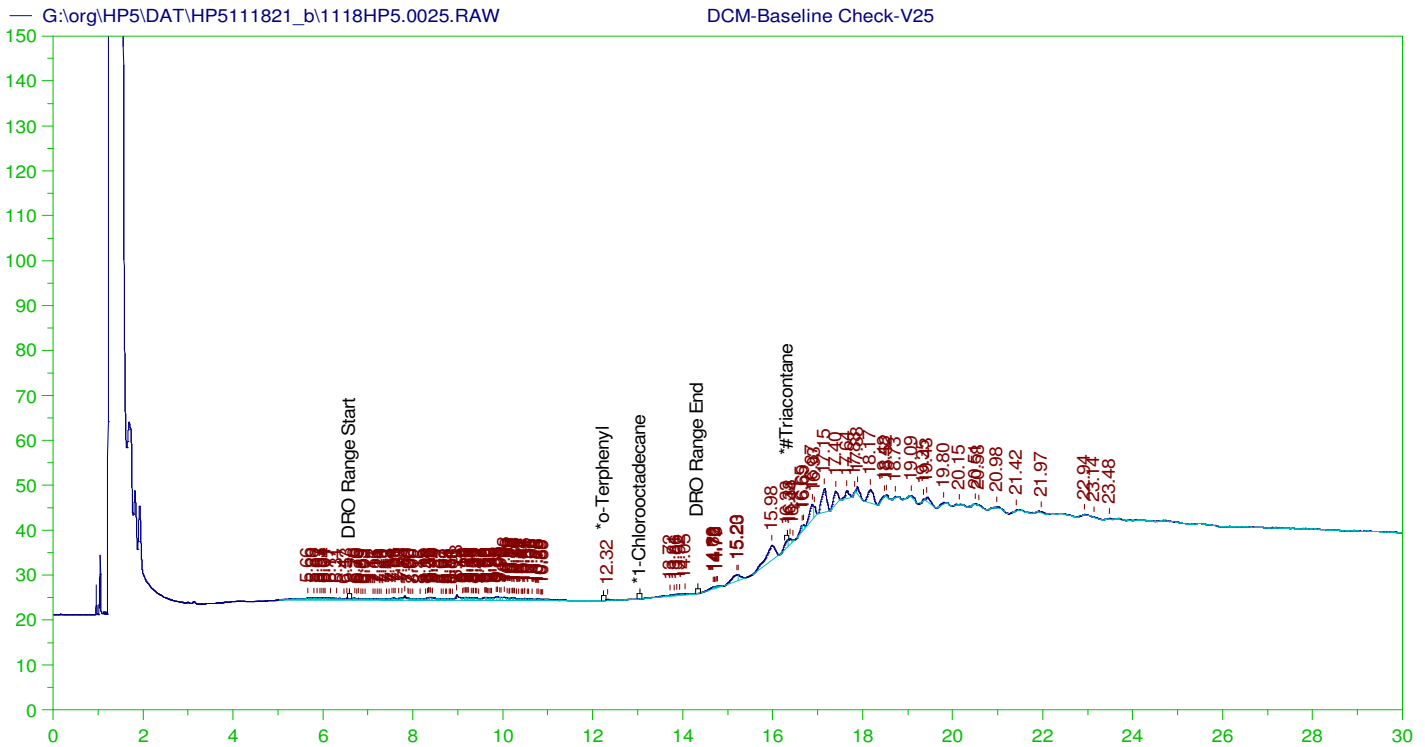
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-002AMS-RRO ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0024.RAW
 Date & Time Acquired: 11/19/2021 1:40:11 AM
 Method File: G:\Org\HP5\Methods\DS_OROb-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.303	.481	.065	13.55

RRO Area:3402684 RRO AMOUNT: 0.1146298



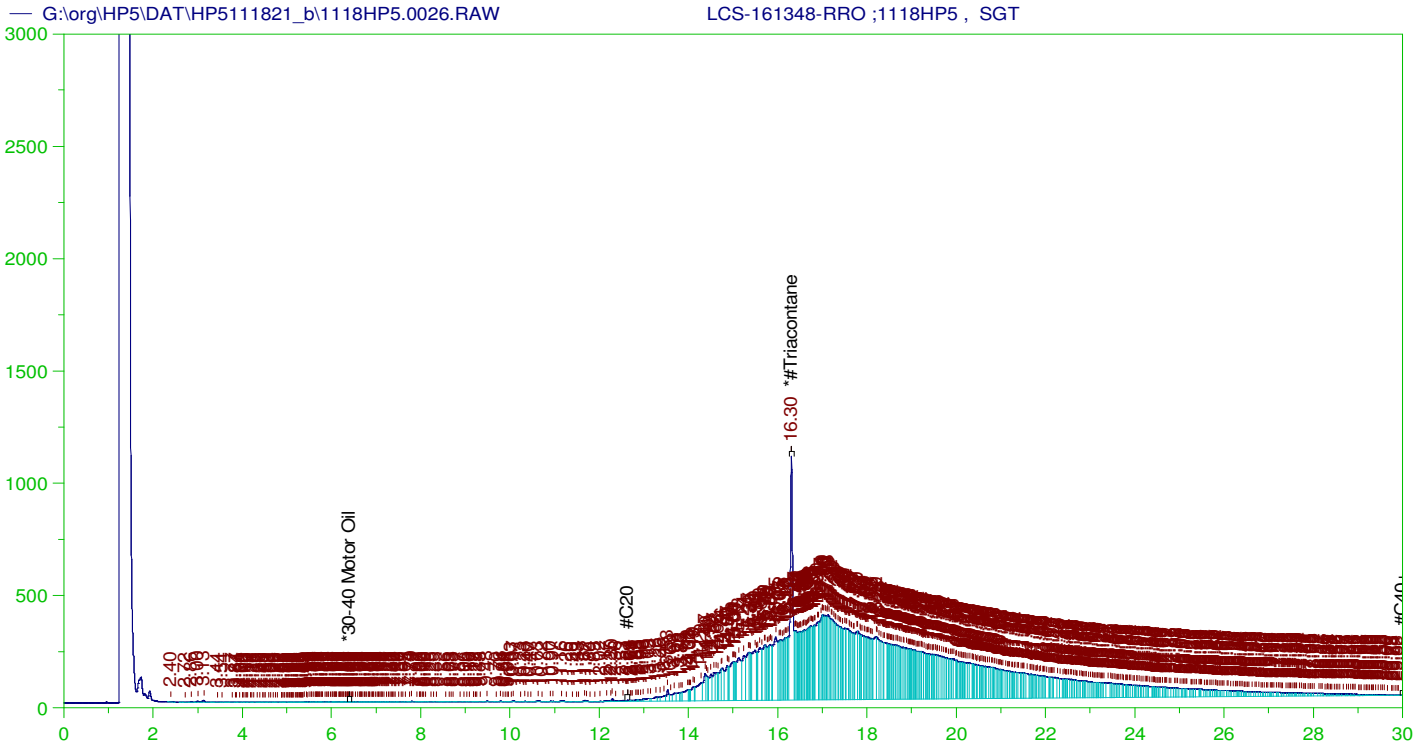
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V25
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0025.RAW
 Date & Time Acquired: 11/19/2021 2:23:08 AM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L0.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.976	200.	.	.
*1-Chlorooctadecane	29.976	200.	.	.
*#Triacontane	16.333	200.	.303	.15

DRO Area:142727.3 DRO Amount: 4.552241
 TEH Area:444692.7 TEH Amount: 14.18333



RESIDUAL RANGE ORGANICS CHROMATOGRAM

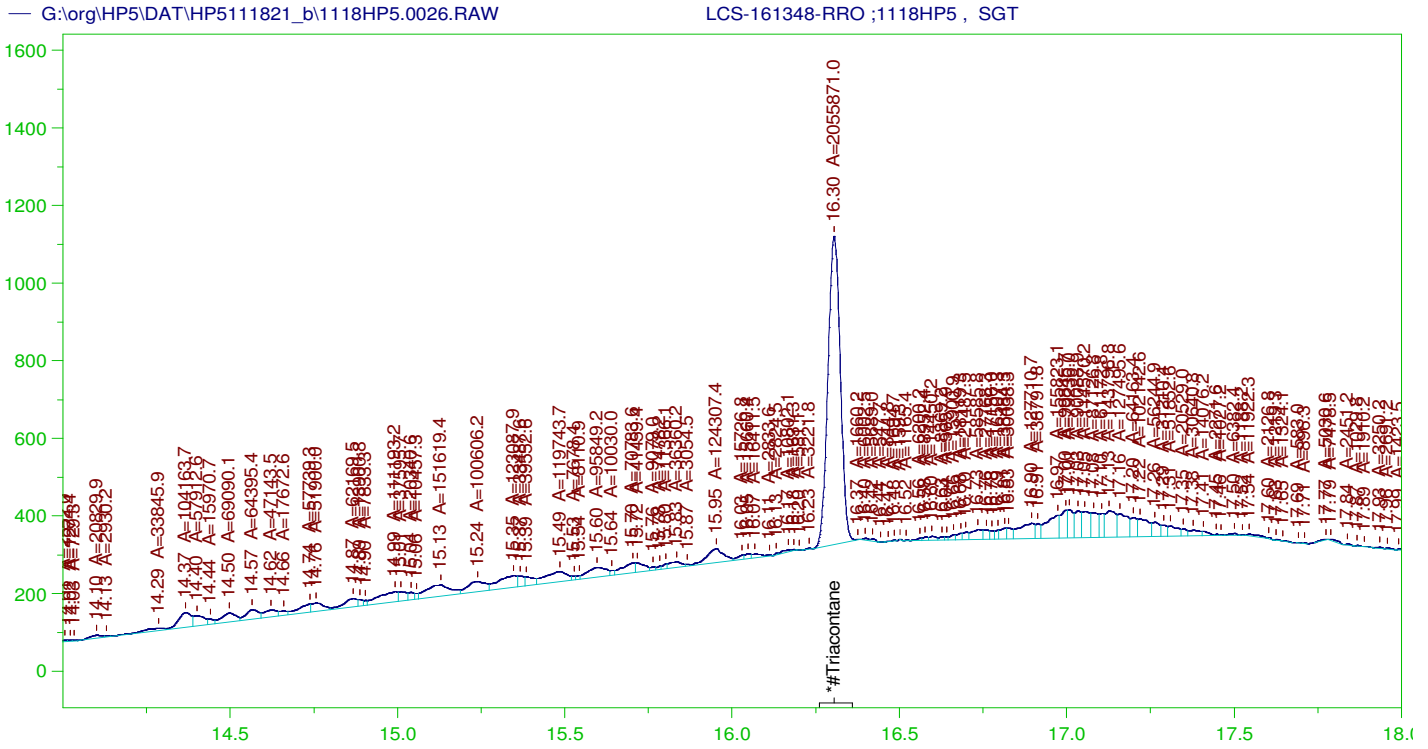
Sample Name: LCS-161348-RRO ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0026.RAW
 Date & Time Acquired: 11/19/2021 3:06:05 AM
 Method File: G:\Org\HP5\Methods\D3_ORO-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 28542.41
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.304	.5	.147	29.31	-

RRO TEH(Oil Range)Area:1.151129E+08 RRO TEH(Oil Range)AMOUNT: 4.033049

AMN 11/19/2021



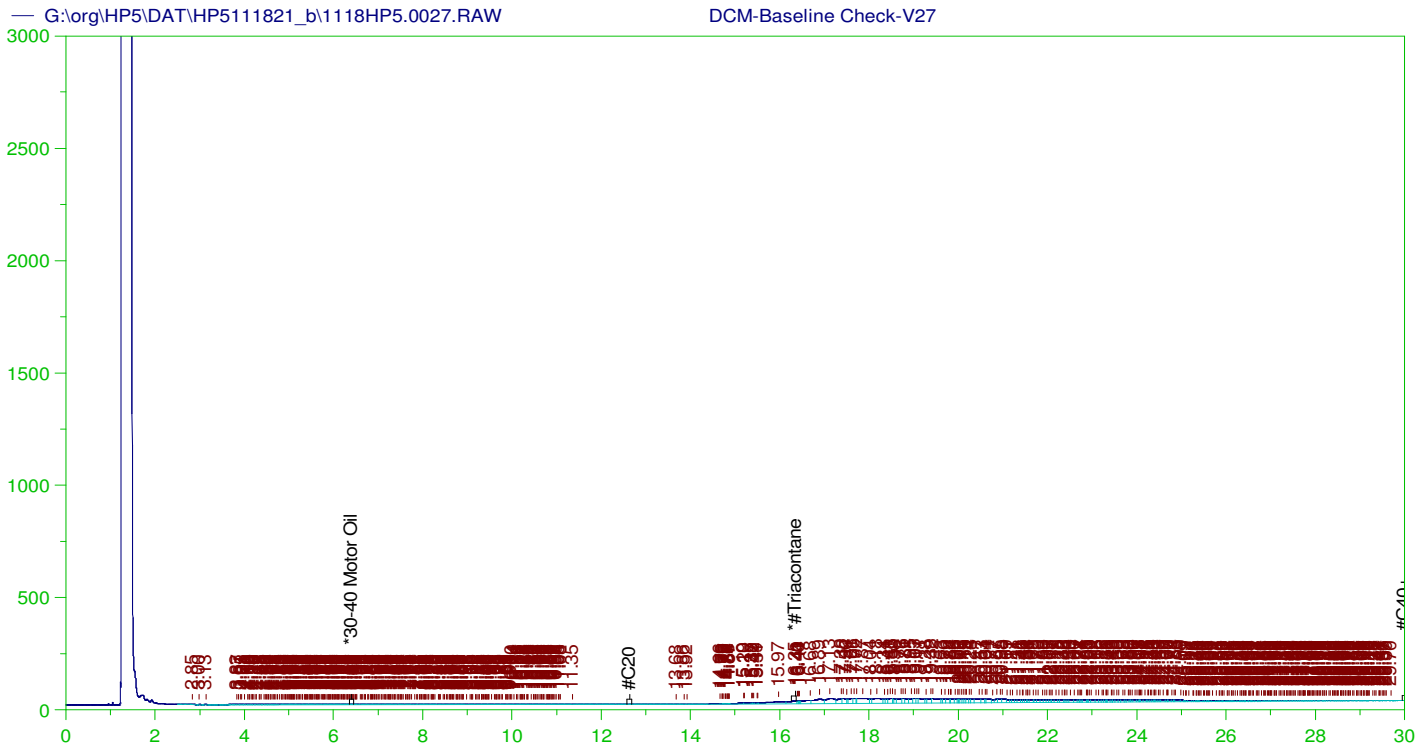
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCS-161348-RRO ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0026.RAW
 Date & Time Acquired: 11/19/2021 3:06:05 AM
 Method File: G:\Org\HP5\Methods\DS_OROb-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.304	.5	.071	14.21

RRO Area:4200827 RRO AMOUNT: 0.1471784



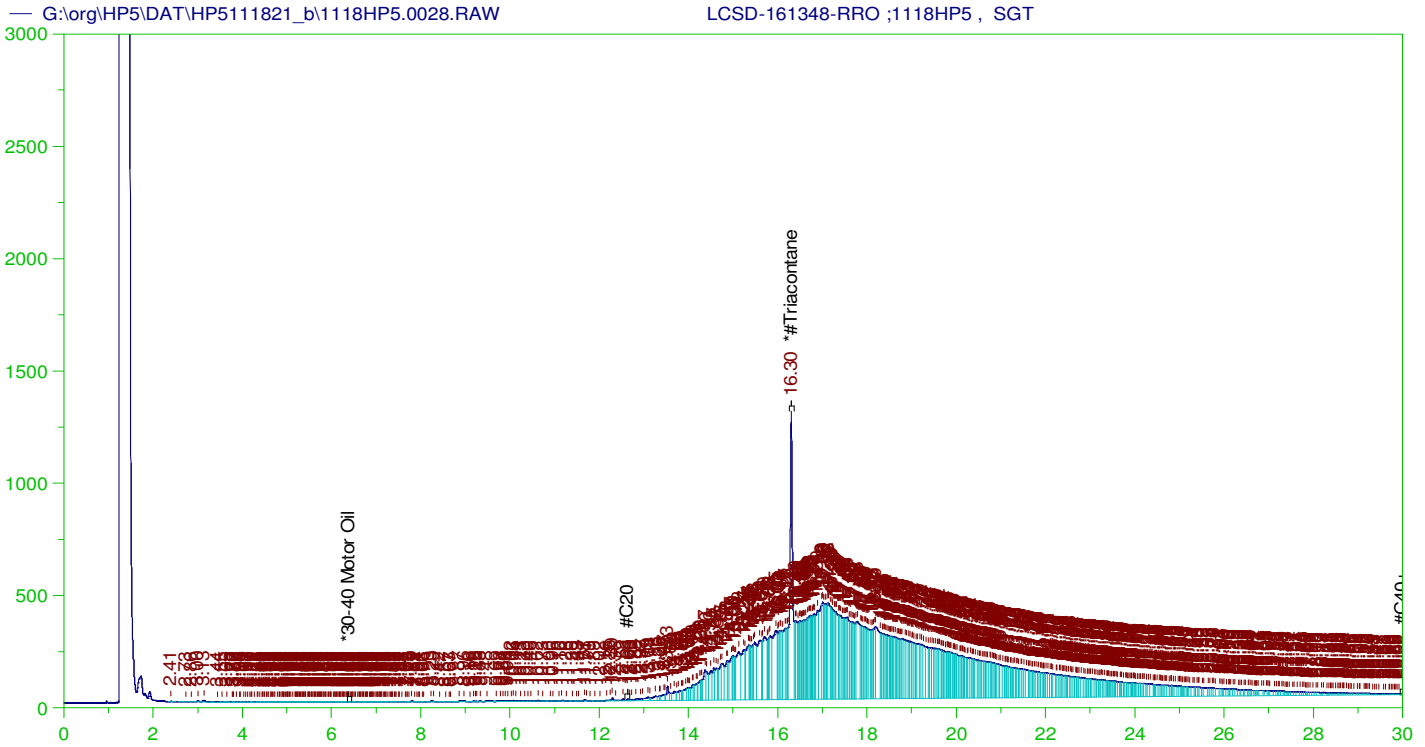
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: DCM-Baseline Check-V27
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0027.RAW
 Date & Time Acquired: 11/19/2021 3:48:55 AM
 Method File: G:\Org\HP5\Methods\D3_ORO-AF-L0.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.345	500.	4.723	.94	-

RRO Area:8644262 RRO AMOUNT: 302.8568



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCSD-161348-RRO ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0028.RAW
 Date & Time Acquired: 11/19/2021 4:31:47 AM
 Method File: G:\Org\HP5\Methods\D3_ORO-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

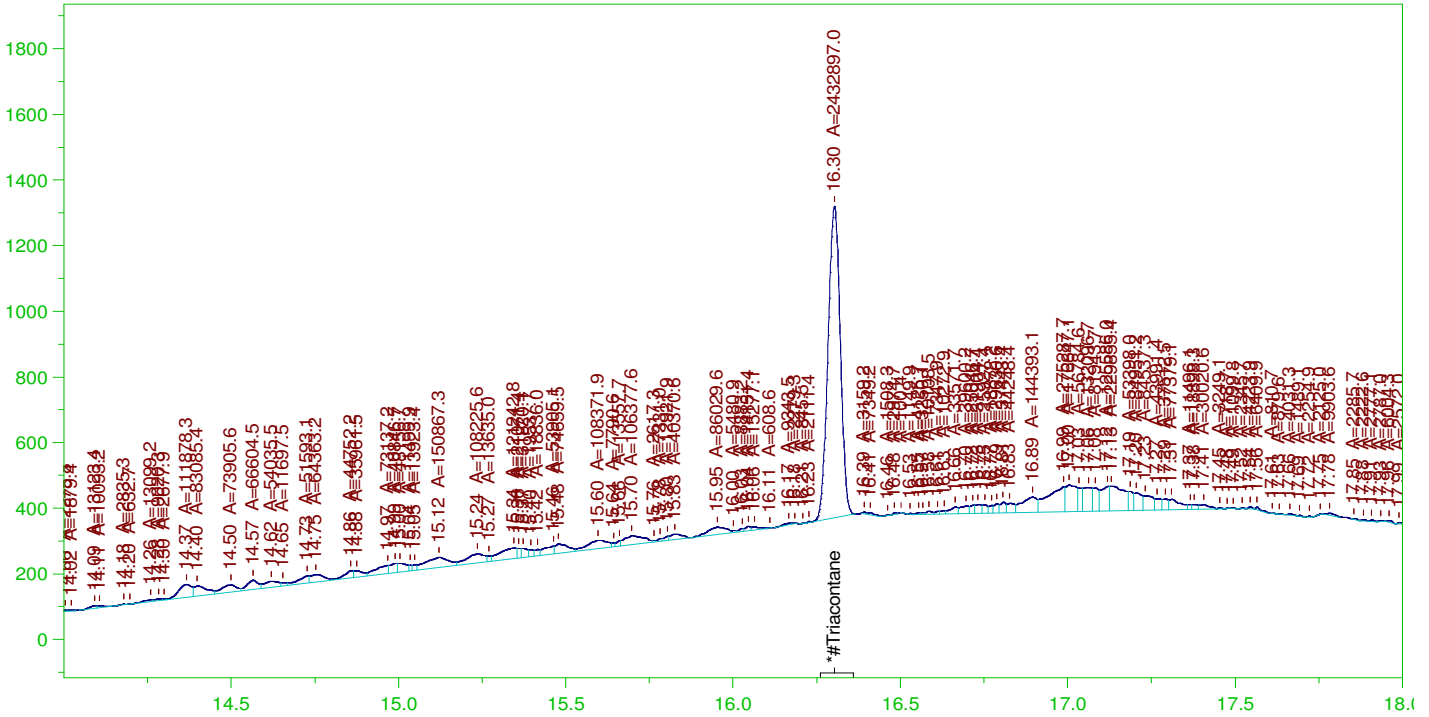
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.303	.5	.174	34.73	-

RRO TEH(Oil Range)Area:1.306723E+08 RRO TEH(Oil Range)AMOUNT: 4.578179

AMN 11/19/2021

G:\org\HP5\DAT\HP5111821_b\1118HP5.0028.RAW

LCSD-161348-RRO ;1118HP5 , SGT



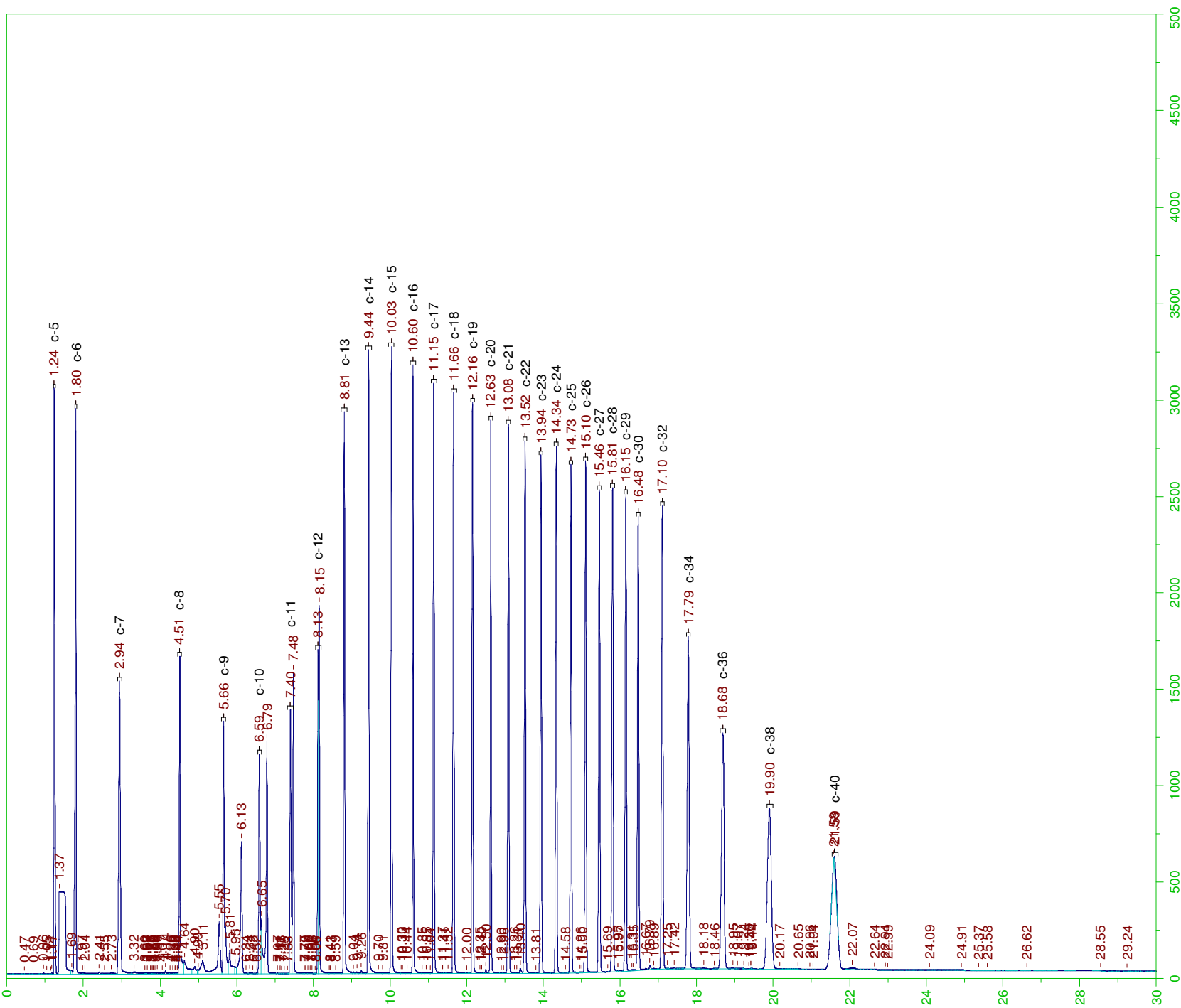
RESIDUAL RANGE ORGANICS CHROMATOGRAM

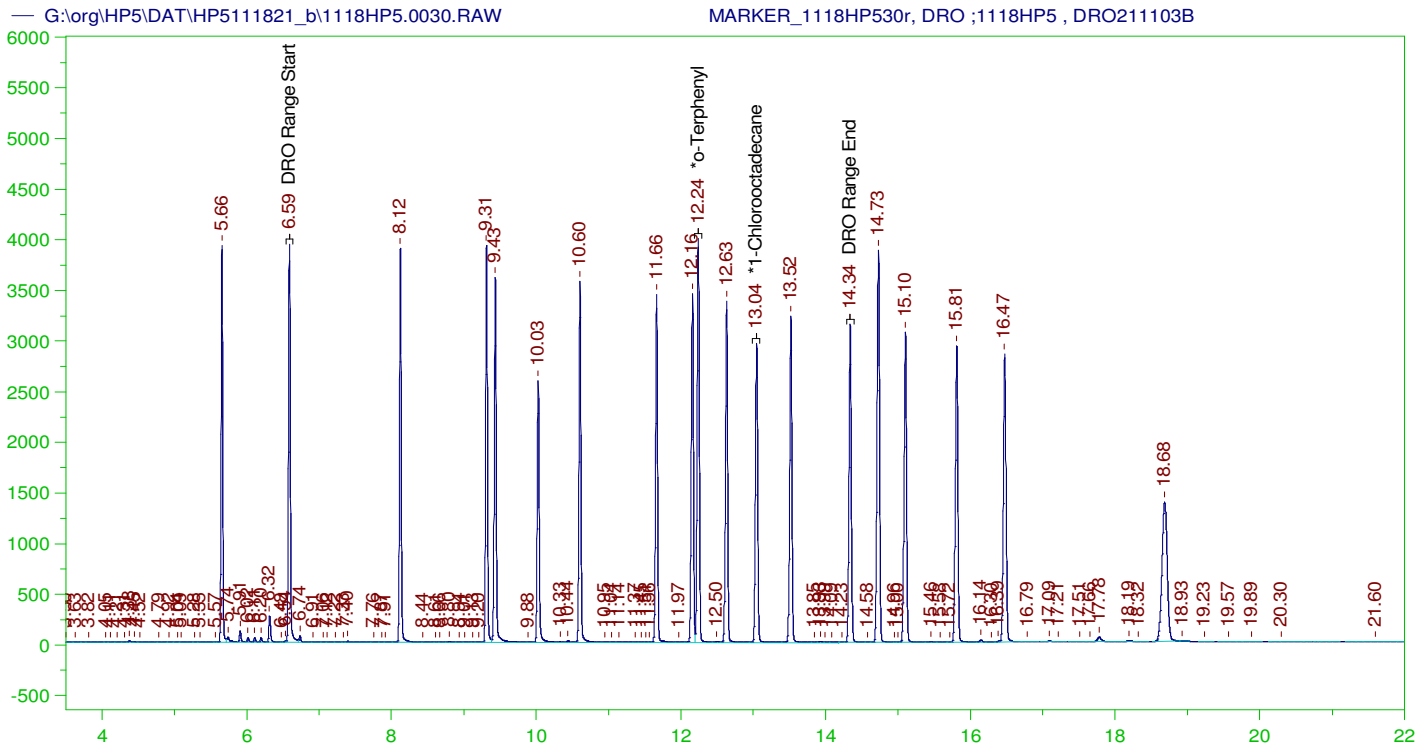
Sample Name: LCSD-161348-RRO ;1118HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0028.RAW
 Date & Time Acquired: 11/19/2021 4:31:47 AM
 Method File: G:\Org\HP5\Methods\DS_OROb-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.303	.5	.084	16.82

RRO Area:4533654 RRO AMOUNT: 0.1588392





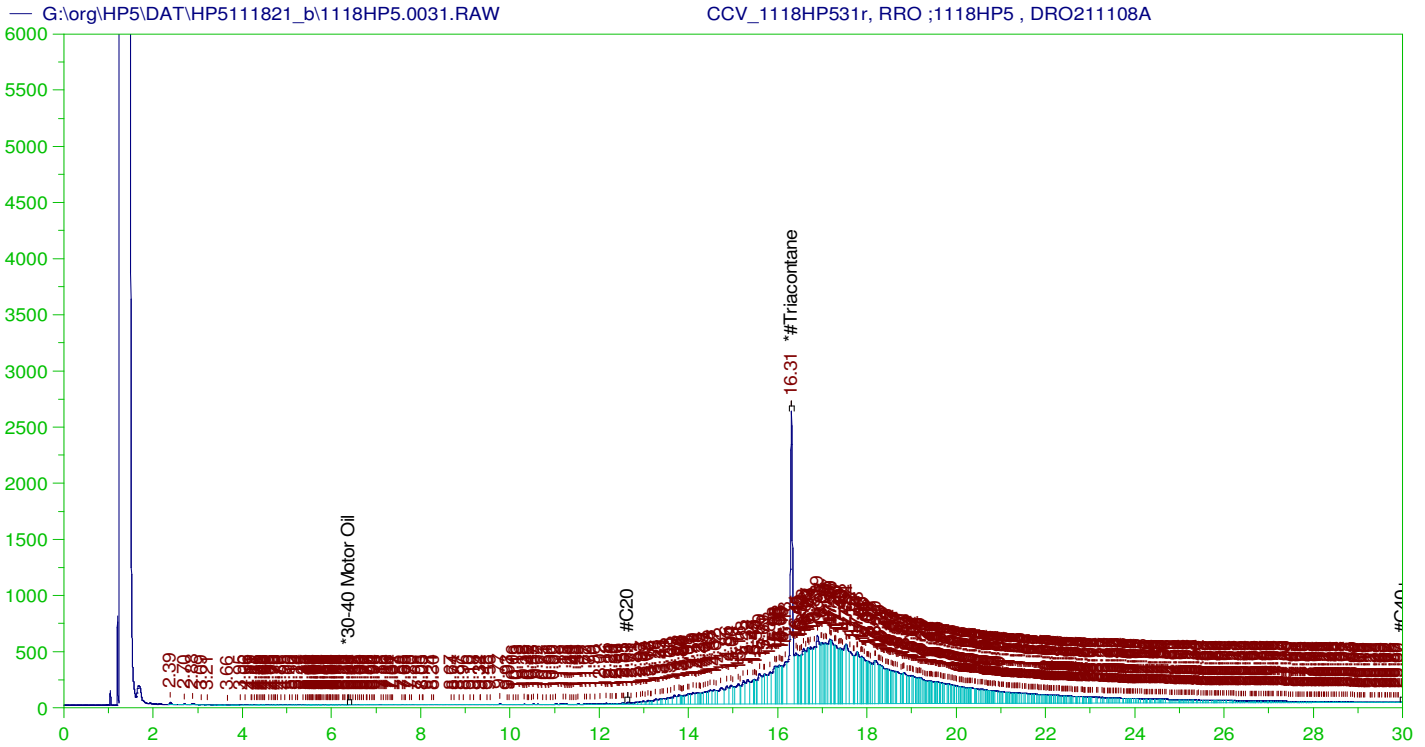
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MARKER_1118HP530r, DRO ;1118HP5 , DRO211103B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0030.RAW
 Date & Time Acquired: 11/19/2021 5:57:40 AM
 Method File: G:\Org\HP5\Methods\DC_8015-24-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.239	.2	.218	108.85
*1-Chlorooctadecane	13.044	.2	.177	88.35

DRO Area: 7.363914E+07 DRO Amount: 2.348697
 TEH Area: 1.193881E+08 TEH Amount: 3.807844



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1118HP531r, RRO ;1118HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0031.RAW
 Date & Time Acquired: 11/19/2021 6:40:32 AM
 Method File: G:\Org\HP5\Methods\DC_ORO-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.306	500.	332.151	66.43	-

~~RRO~~ TEH(Oil Range) Area:1.320479E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4626.374

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0031.RAW

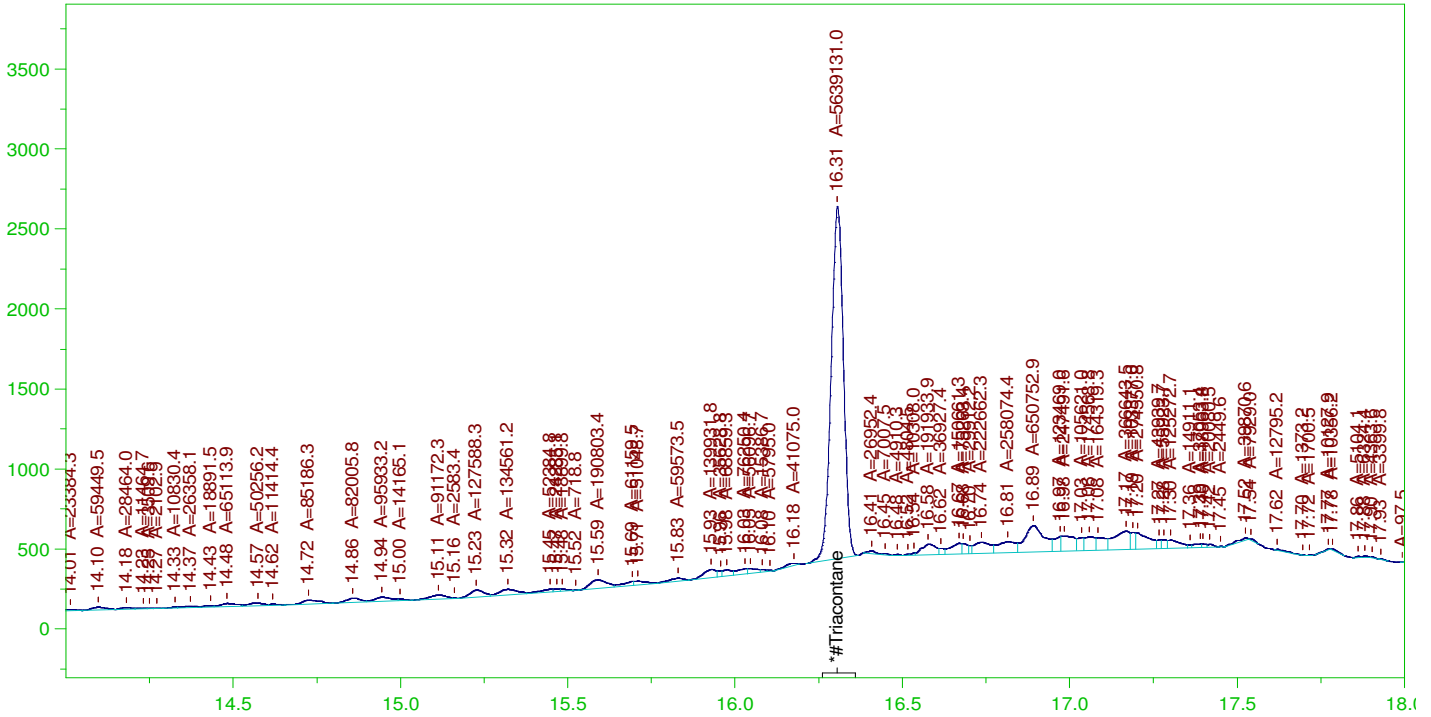
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.038	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.306	200.	332.151	166.08	75-125

AMN 11/19/2021

G:\org\HP5\DAT\HP5111821_b\1118HP5.0031.RAW

CCV_1118HP531r, RRO ;1118HP5 , DRO211108A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1118HP531r, RRO ;1118HP5 , DRO211108A
Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0031.RAW
Date & Time Acquired: 11/19/2021 6:40:32 AM
Method File: G:\Org\HP5\Methods\DS_OROb-AF-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.306	500.	194.922	38.98	-

RRO Area:6152759 RRO AMOUNT: 215.5655

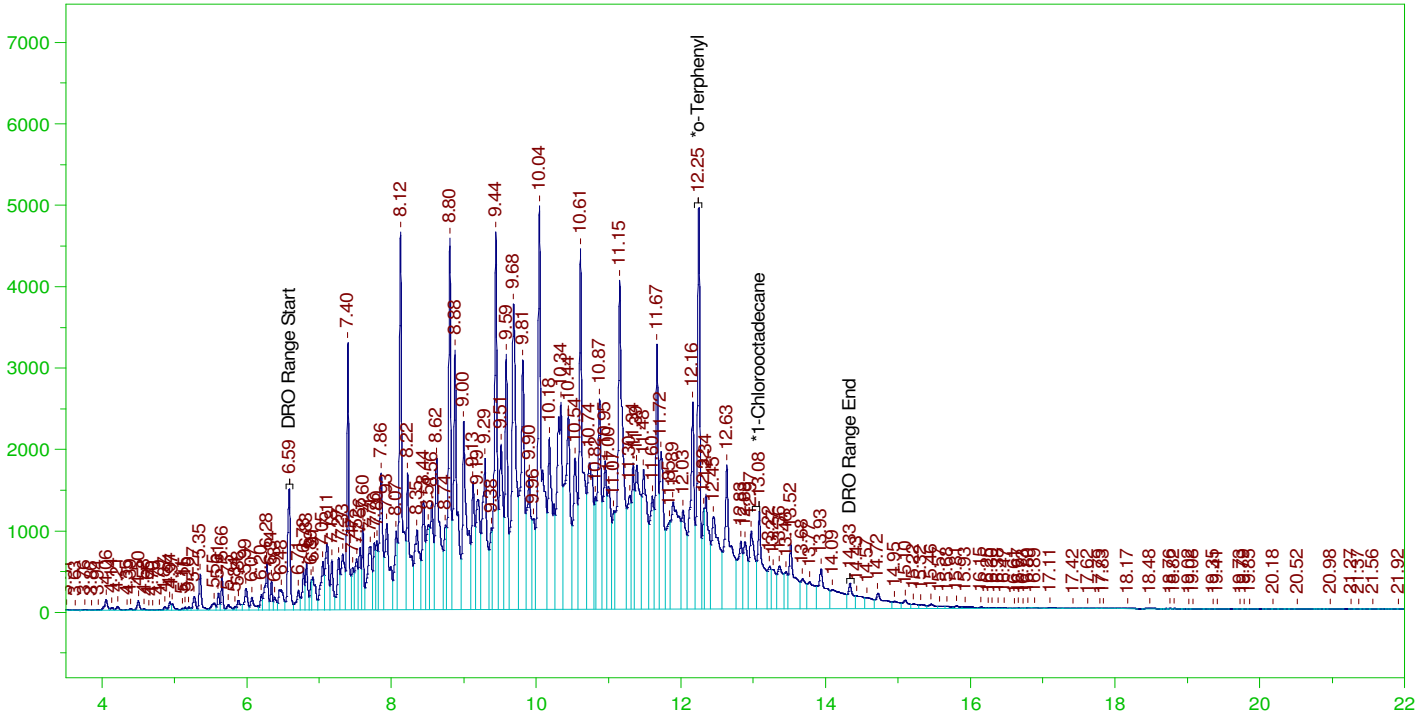
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COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.038	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.306	200.	194.922	97.46	75-125

G:\org\HP5\DAT\HP5111821_b\1118HP5.0032.RAW

CCV_1118HP532r, DRO 8015;1118HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1118HP532r, DRO 8015;1118HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0032.RAW
 Date & Time Acquired: 11/19/2021 7:23:24 AM
 Method File: G:\Org\HP5\Methods\DC_8015-24-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.246	200.	355.617	177.81
*1-Chlorooctadecane	13.082	200.	171.102	85.55

DRO Area: 4.917549E+08 DRO Amount: 15684.36
 TEH Area: 5.099391E+08 TEH Amount: 16264.34

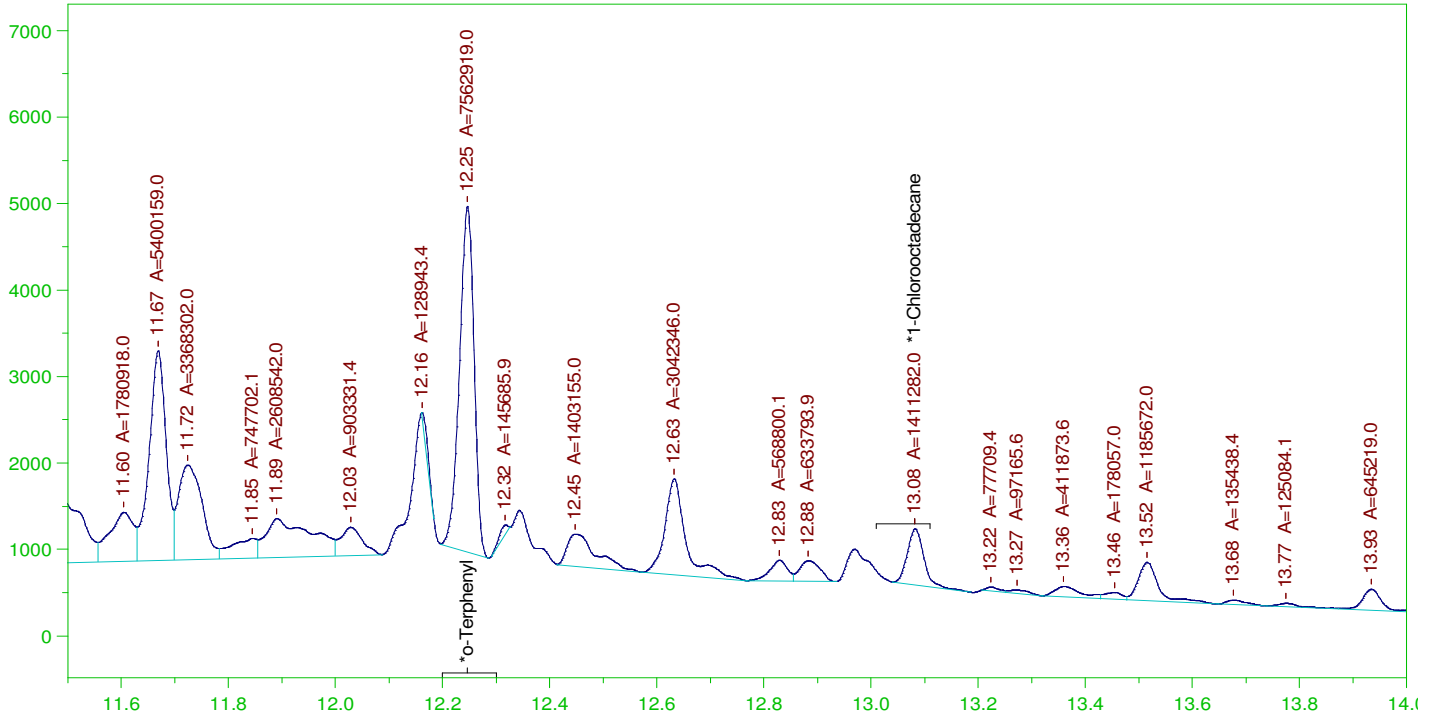
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COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	16264.34	108.43	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.246	200.	355.617	177.81	85-115
*1-Chlorooctadecane	13.082	200.	171.102	85.55	85-115

G:\org\HP5\DAT\HP5111821_b\1118HP5.0032.RAW

CCV_1118HP532r, DRO 8015;1118HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1118HP532r, DRO 8015;1118HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0032.RAW
 Date & Time Acquired: 11/19/2021 7:23:24 AM
 Method File: G:\Org\HP5\Methods\DS_8015-24-ID-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

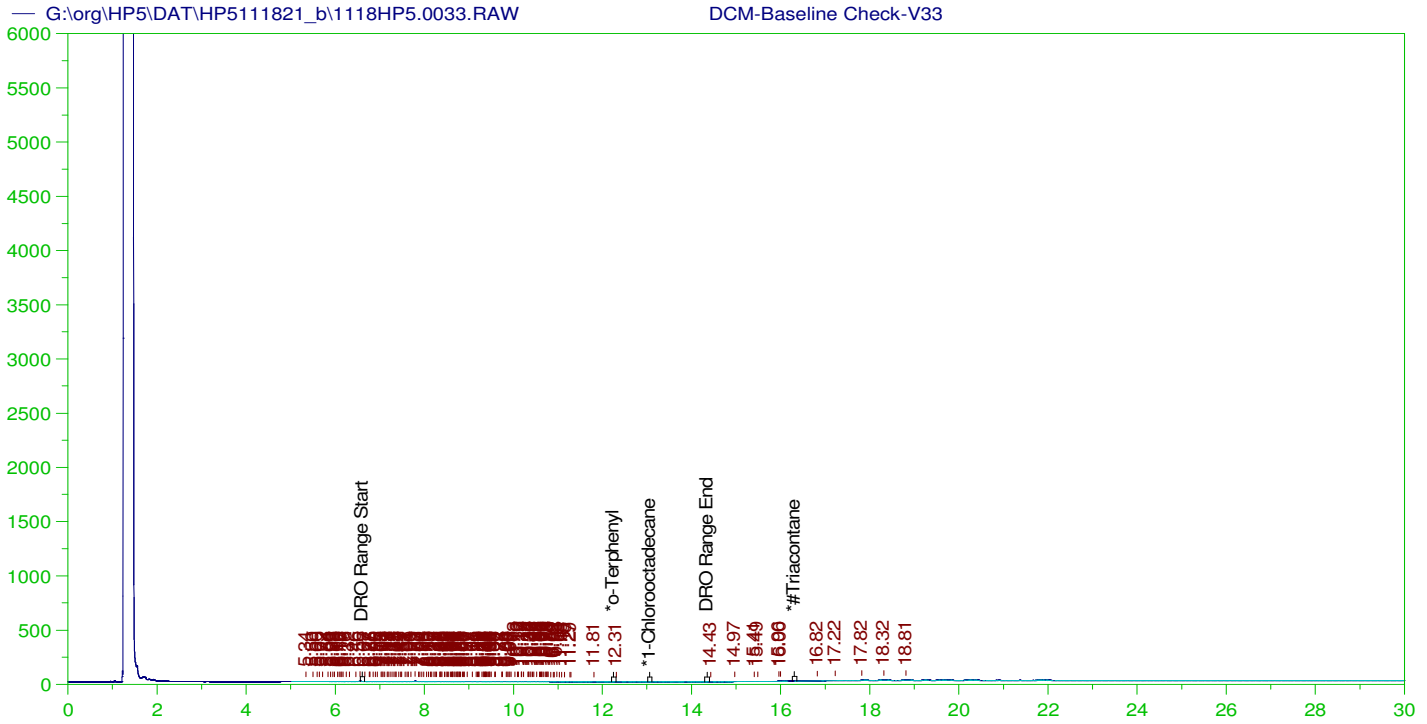
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.246	200.	212.985	106.49
*1-Chlorooctadecane	13.082	200.	39.744	19.87

DRO Area: 2.70701E+08 DRO Amount: 8633.923
 TEH Area: 2.815056E+08 TEH Amount: 8978.531

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0032.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8978.53	59.86	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.246	200.	212.985	106.49	85-115
*1-Chlorooctadecane	13.082	200.	39.744	19.87	85-115



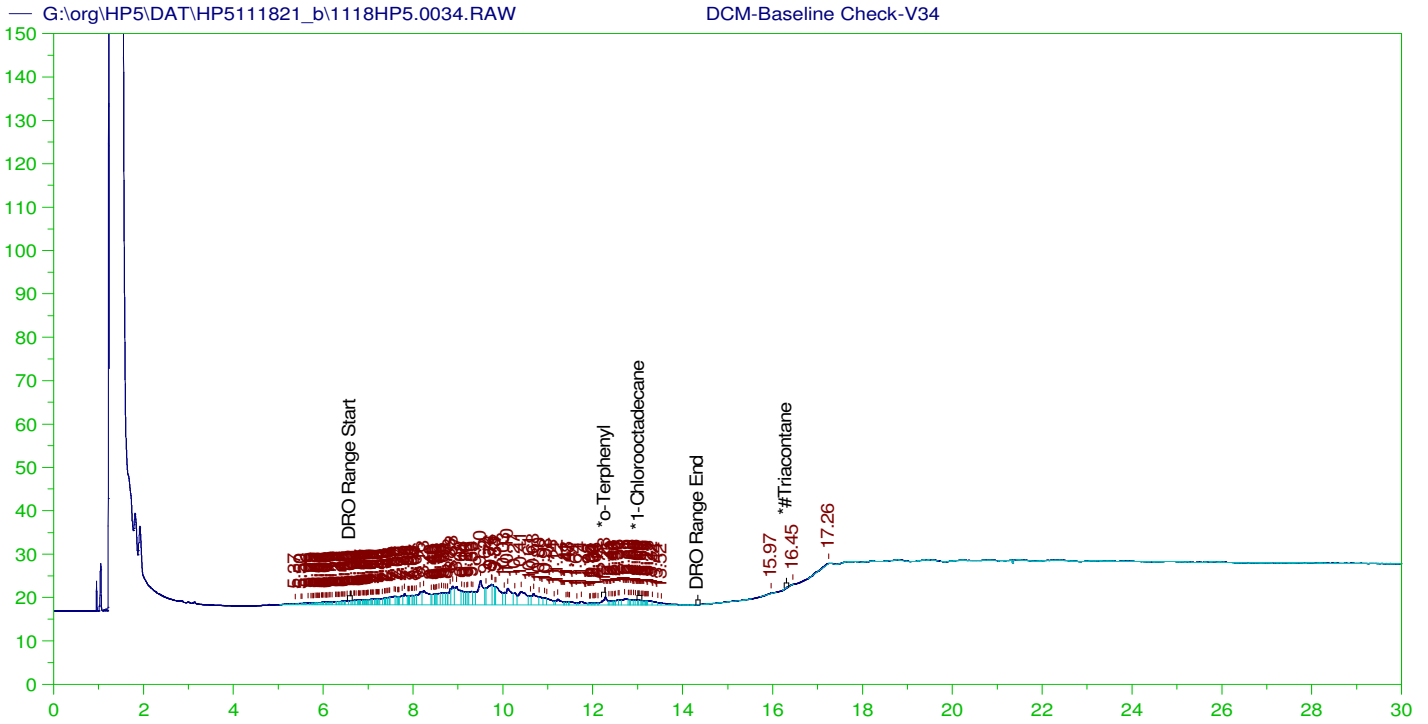
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V33
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0033.RAW
 Date & Time Acquired: 11/19/2021 8:06:06 AM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-IC-L0.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24-Tri.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.56 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.97	200.	.	-
*1-Chlorooctadecane	29.97	200.	.	-
*#Triacontane	29.97	200.	.	-

DRO Area:198905.3 DRO Amount: 6.34402
 TEH Area:291019.5 TEH Amount: 9.281973



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

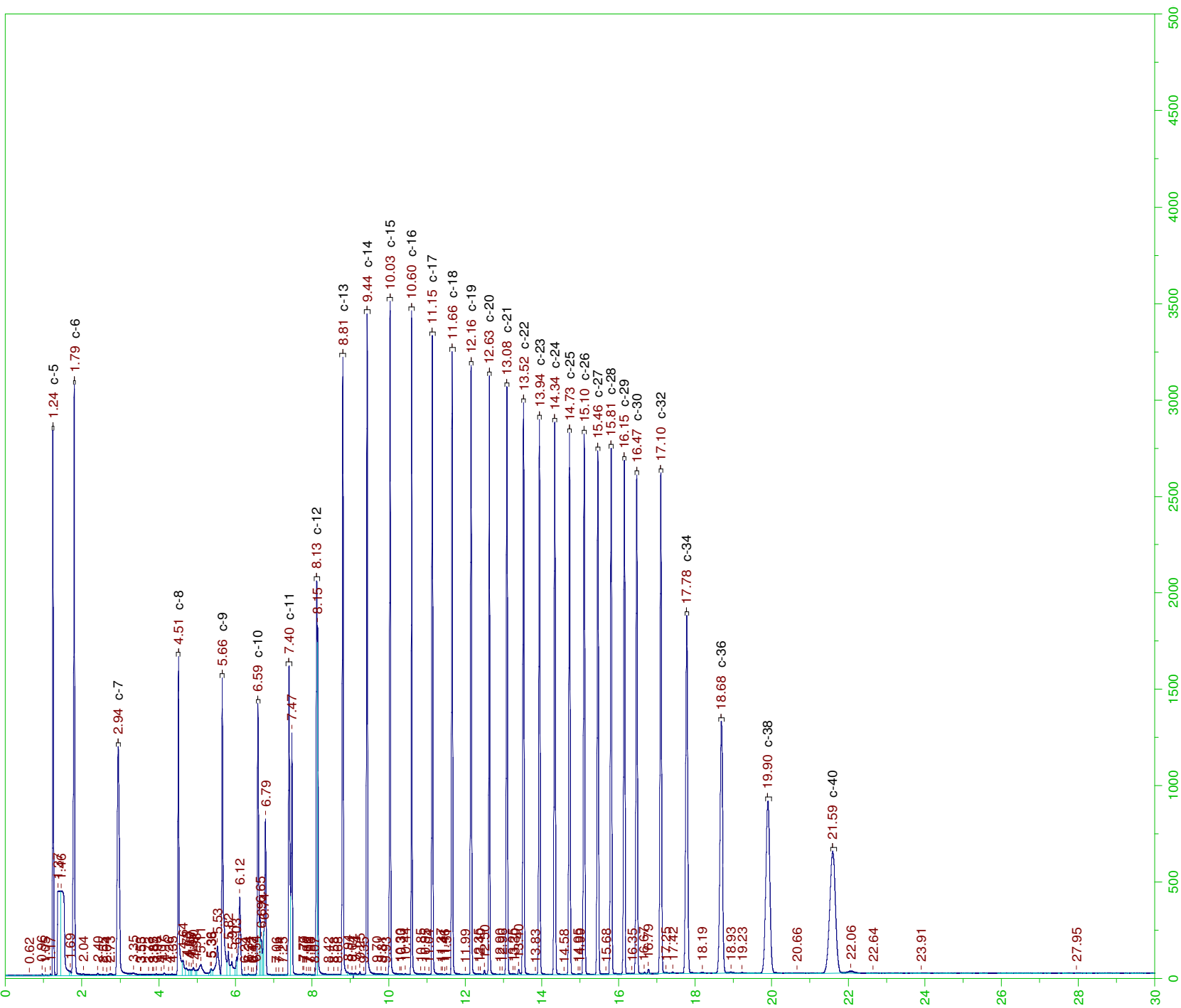
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

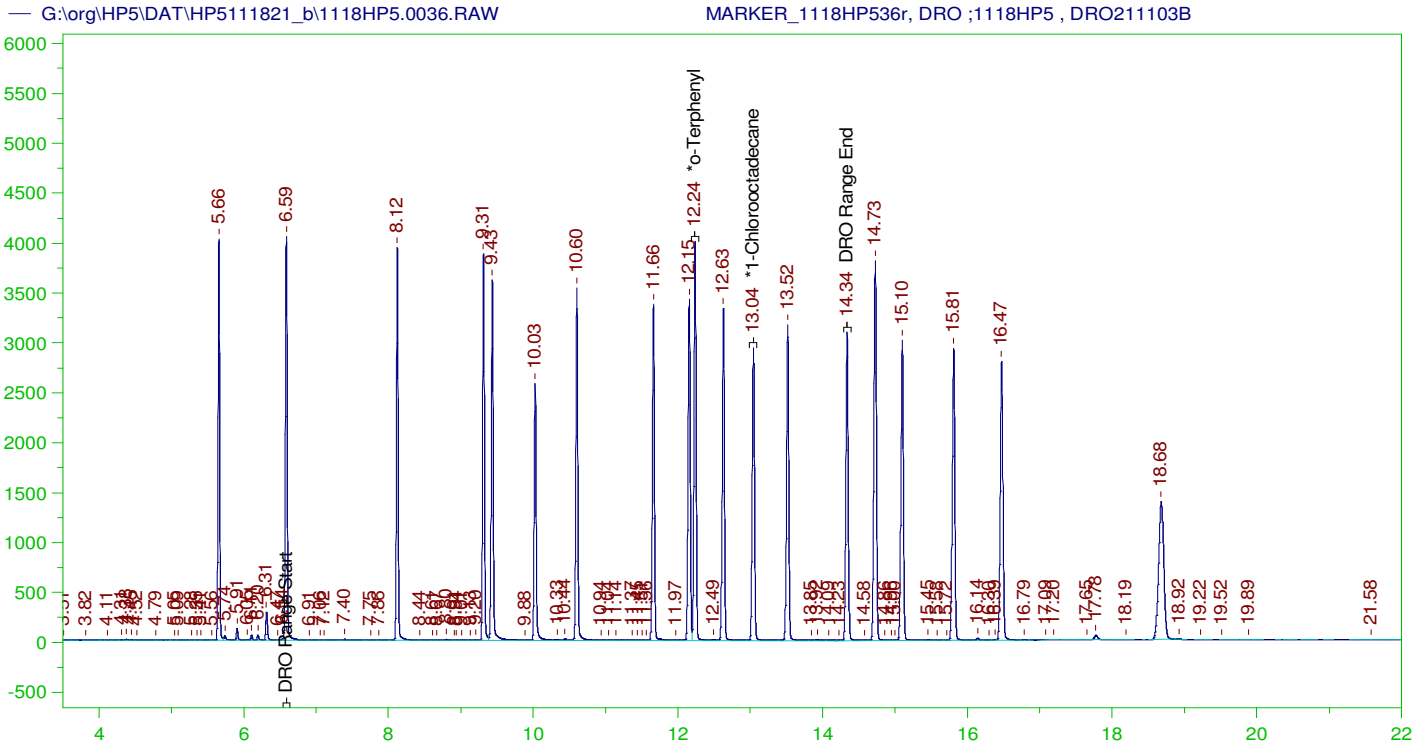
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.277	200.	.36	.18	-
*1-Chlorooctadecane	13.022	200.	.097	.05	-
*#Triacontane	29.993	200.	.	.	-

DRO Area:768193.3 DRO Amount: 24.50128
 TEH Area:823517.1 TEH Amount: 26.26582





DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

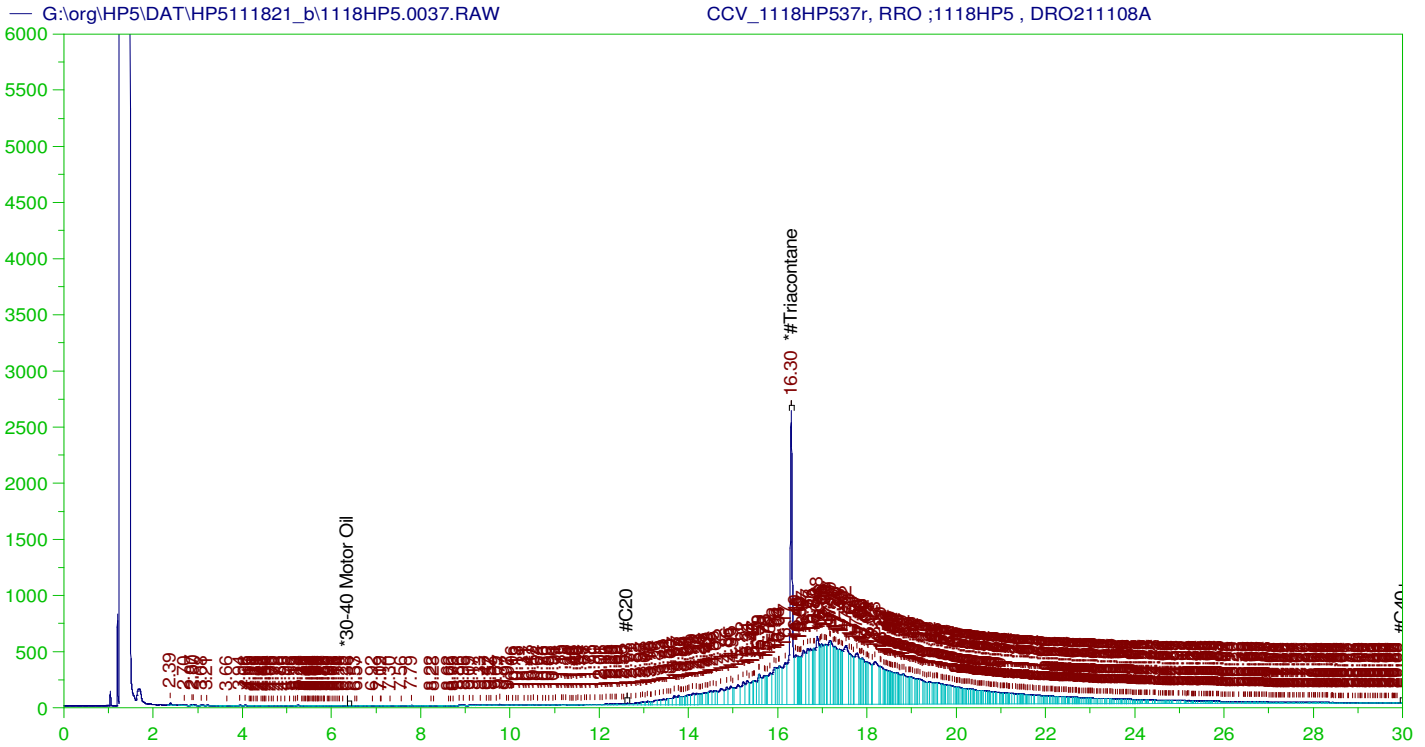
Sample Name: MARKER_1118HP536r, DRO ;1118HP5 , DRO211103B
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 Date & Time Acquired: 11/19/2021 6:02:32 PM
 Method File: G:\Org\HP5\Methods\DC_8015-24-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.237	.2	.217	108.38
*1-Chlorooctadecane	13.042	.2	.175	87.6

DRO Area: 7.301229E+07 DRO Amount: 2.328704
 TEH Area: 1.181278E+08 TEH Amount: 3.76765



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1118HP537r, RRO ;1118HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0037.RAW
 Date & Time Acquired: 11/19/2021 6:45:42 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.302	500.	329.094	65.82	-

~~RRO~~ TEH(Oil Range) Area:1.301767E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4560.816

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0037.RAW

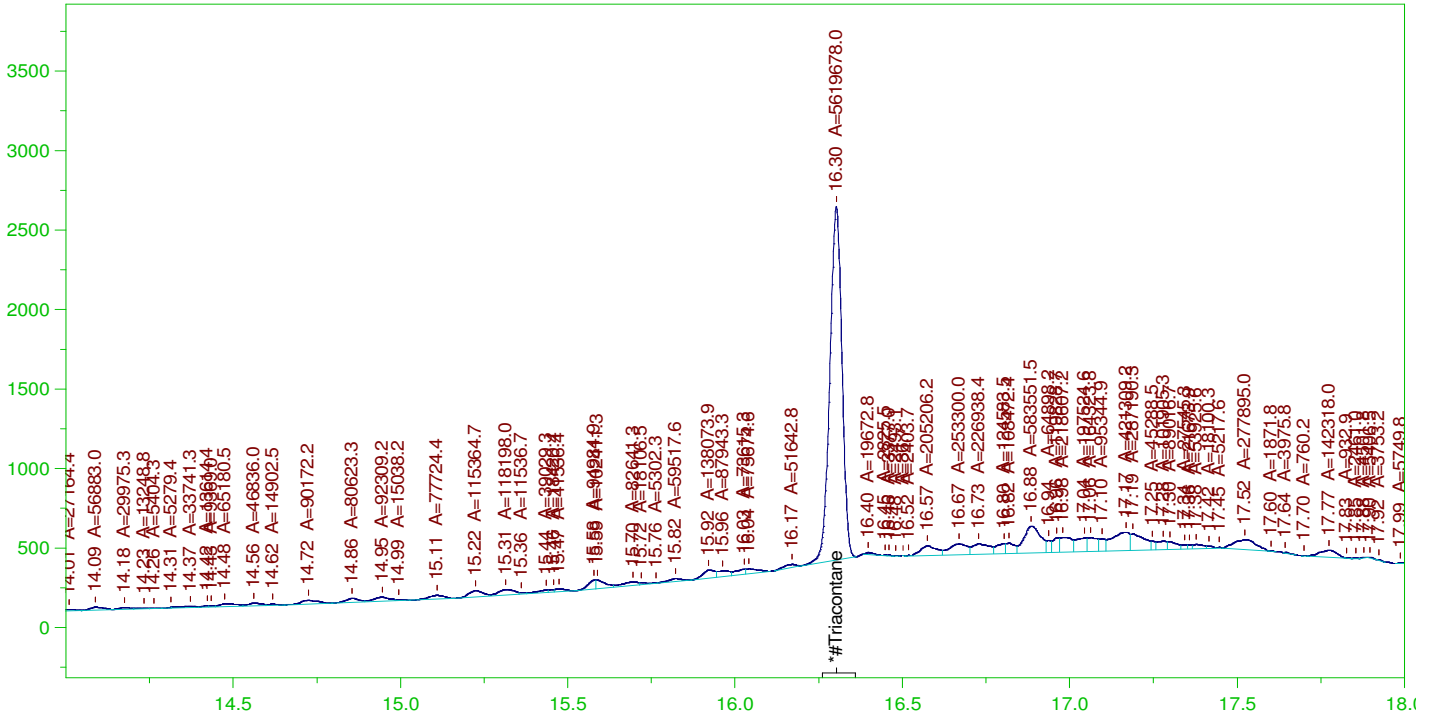
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.019	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.302	200.	329.094	164.55	75-125

AMN 11/22/2021

G:\org\HP5\DAT\HP5111821_b\1118HP5.0037.RAW

CCV_1118HP537r, RRO ;1118HP5 , DRO211108A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1118HP537r, RRO ;1118HP5 , DRO211108A
Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0037.RAW
Date & Time Acquired: 11/19/2021 6:45:42 PM
Method File: G:\Org\HP5\Methods\DS_OROb-AF-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.302	500.	194.25	38.85	-

RRO Area:6502635 RRO AMOUNT: 227.8236

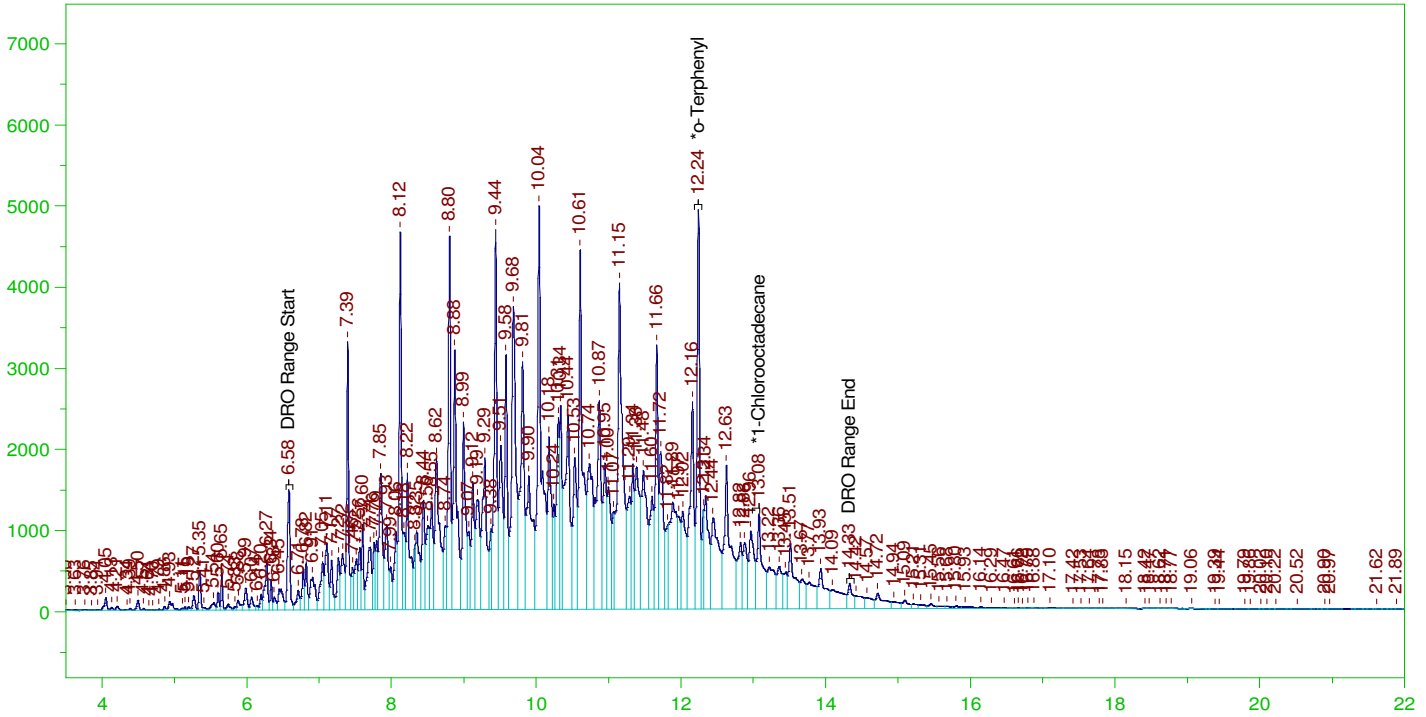
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COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.019	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.302	200.	194.25	97.12	75-125

G:\org\HP5\DAT\HP5111821_b\1118HP5.0038.RAW

CCV_1118HP538r, DRO 8015;1118HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1118HP538r, DRO 8015;1118HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0038.RAW
 Date & Time Acquired: 11/19/2021 7:28:53 PM
 Method File: G:\Org\HP5\Methods\DC_8015-24-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.242	200.	350.554	175.28
*1-Chlorooctadecane	13.078	200.	170.612	85.31

DRO Area: 4.883647E+08 DRO Amount: 15576.24
 TEH Area: 5.065342E+08 TEH Amount: 16155.75

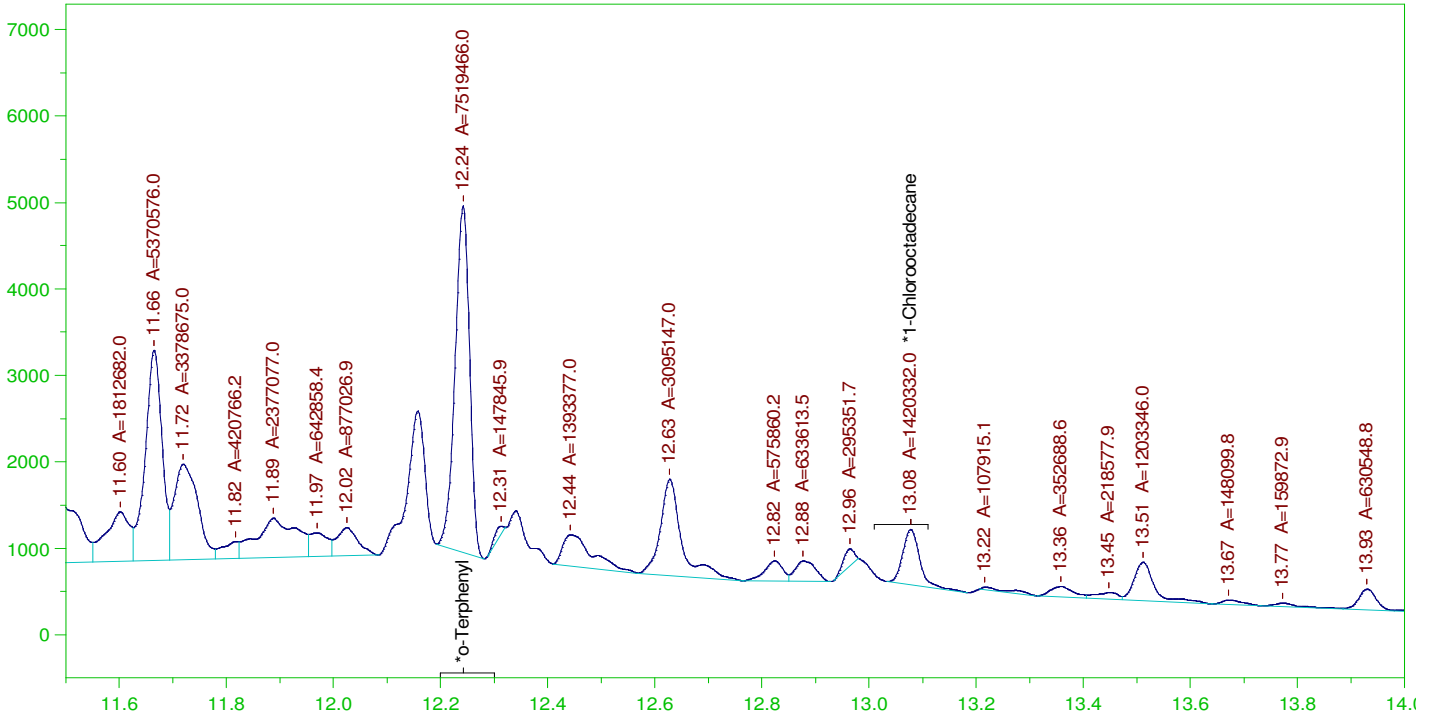
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COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	16155.75	107.71	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.242	200.	350.554	175.28	85-115
*1-Chlorooctadecane	13.078	200.	170.612	85.31	85-115

G:\org\HP5\DAT\HP5111821_b\1118HP5.0038.RAW

CCV_1118HP538r, DRO 8015;1118HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1118HP538r, DRO 8015;1118HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0038.RAW
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

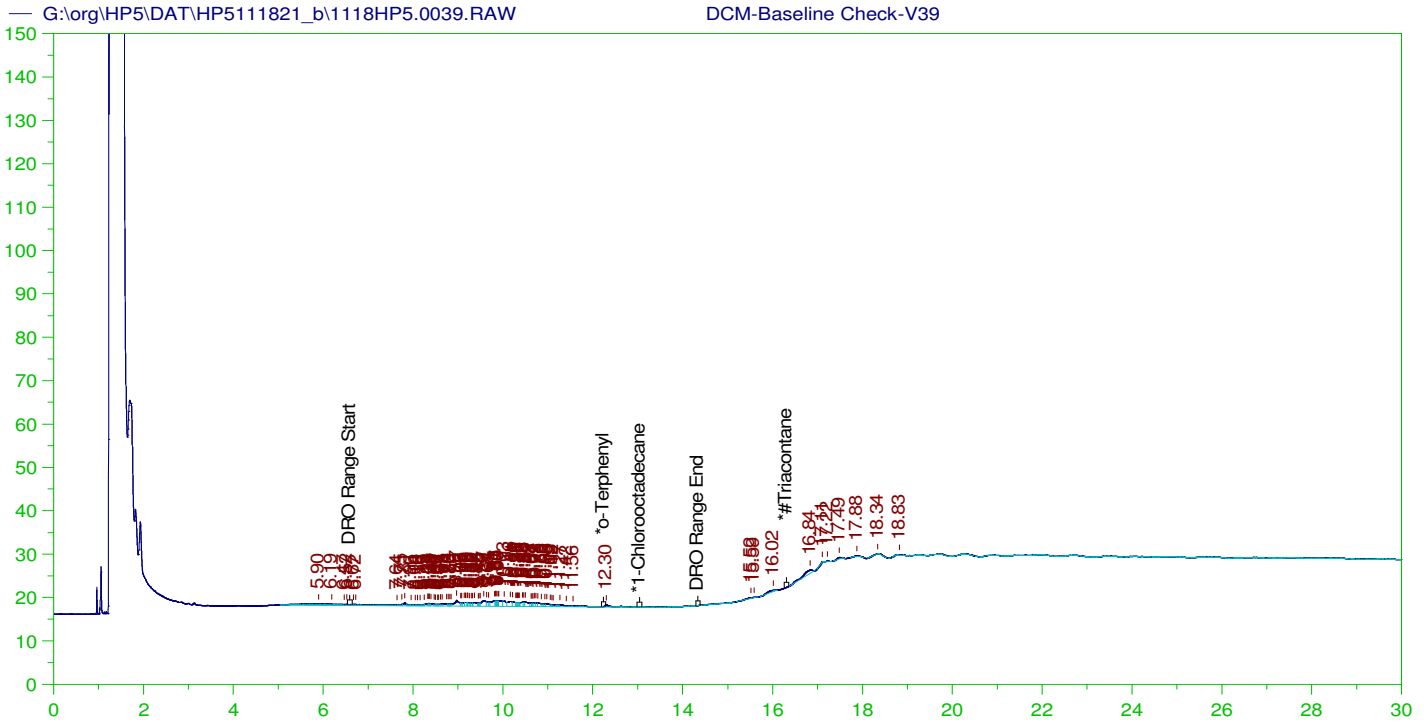
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.242	200.	211.761	105.88
*1-Chlorooctadecane	13.078	200.	39.999	20.

DRO Area: 2.696144E+08 DRO Amount: 8599.265
 TEH Area: 2.805776E+08 TEH Amount: 8948.932

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0038.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8948.93	59.66	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.242	200.	211.761	105.88	85-115
*1-Chlorooctadecane	13.078	200.	39.999	20.	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V39
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0039.RAW
 Date & Time Acquired: 11/19/2021 8:11:56 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L0.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.987	200.	.	-
*1-Chlorooctadecane	29.987	200.	.	-
*#Triacontane	29.987	200.	.	-

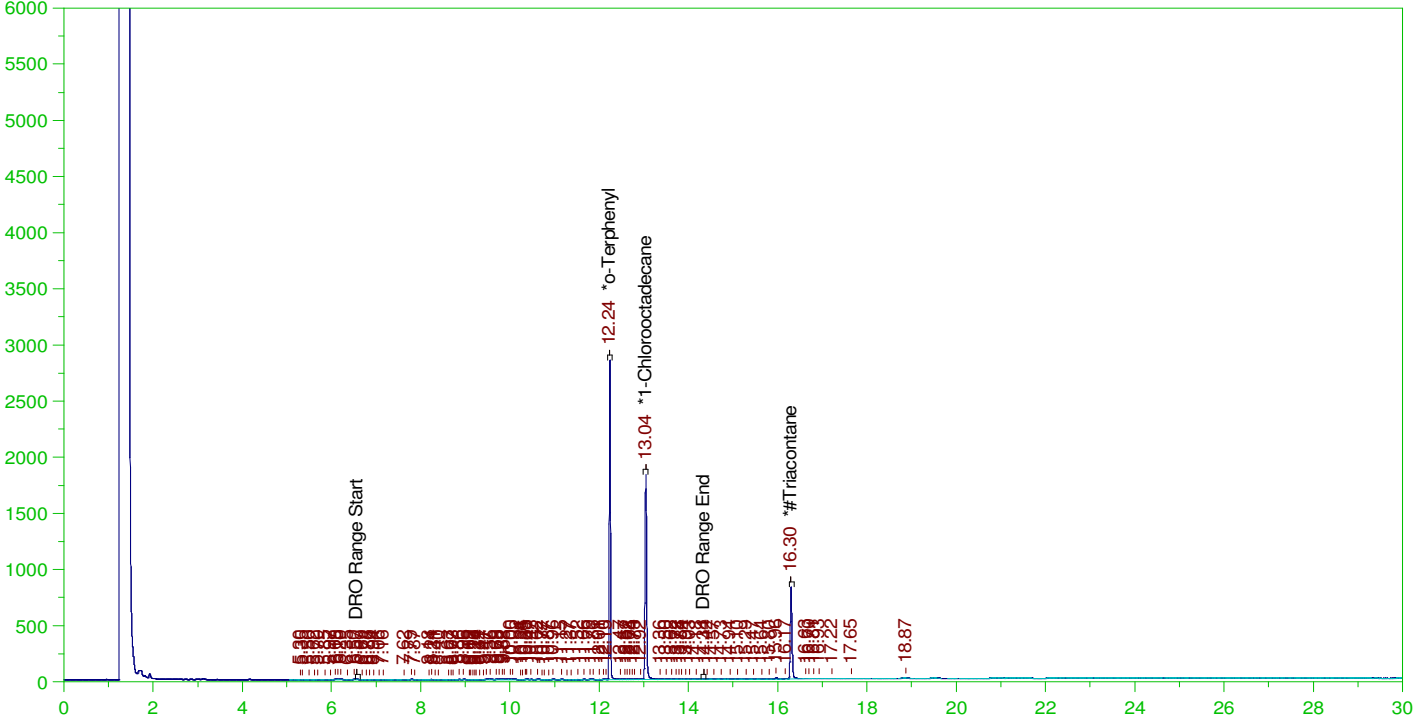
DRO Area:173249.1 DRO Amount: 5.525725
 TEH Area:231300.2 TEH Amount: 7.377245

ERH1916 (Post-Chlorination)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0040.RAW

B21111298-008A ;1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111298-008A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0040.RAW
 Date & Time Acquired: 11/19/2021 8:55:06 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.236	.19	.148	77.62	-
*1-Chlorooctadecane	13.041	.19	.114	59.6	-
*#Triacontane	16.298	.19	.074	38.85	-

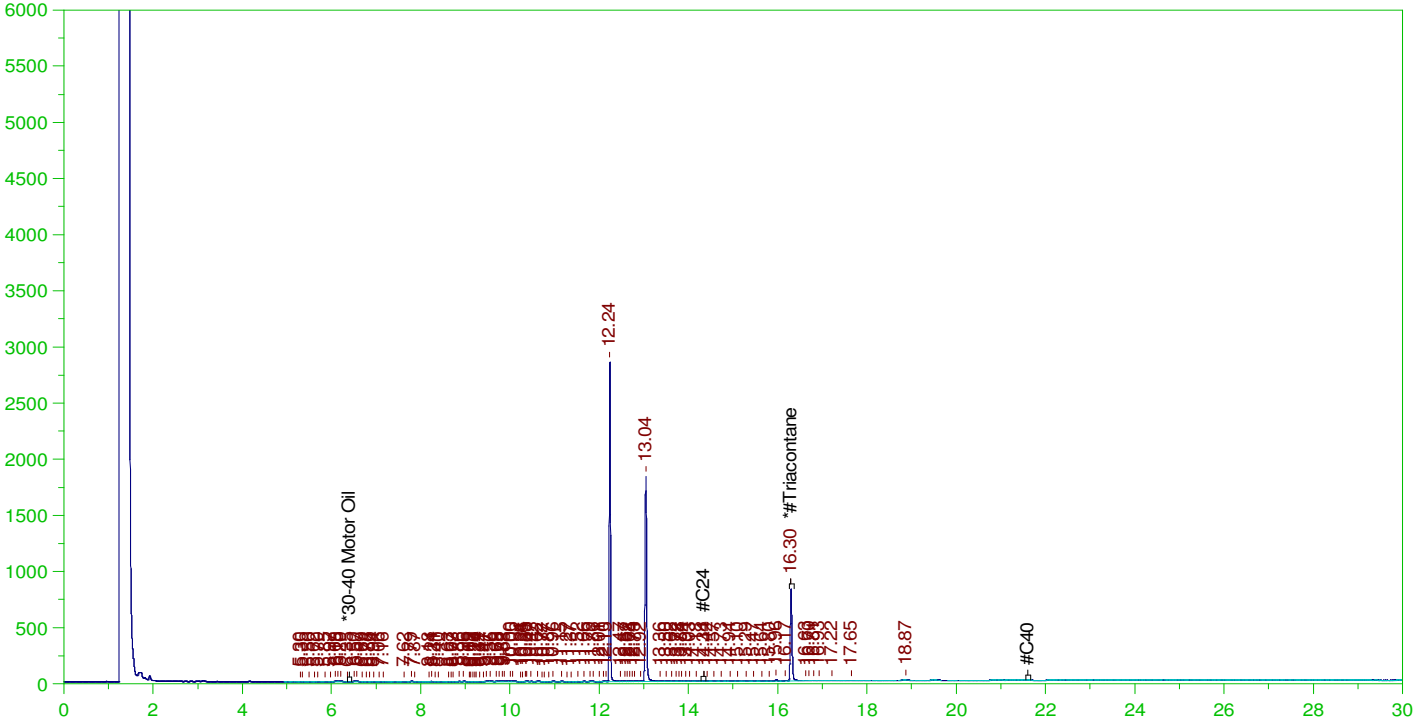
DRO Area:294411.6 DRO Amount: 8.943013E-03
 TEH Area:488607 TEH Amount: 1.484187E-02

ERH1916 (Post-Chlorination)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0040.RAW

B21111298-008A ;1118HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111298-008A ;1118HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0040.RAW
 Date & Time Acquired: 11/19/2021 8:55:06 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF-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: 14.29 to 21.66

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.298	.476	.074	15.54

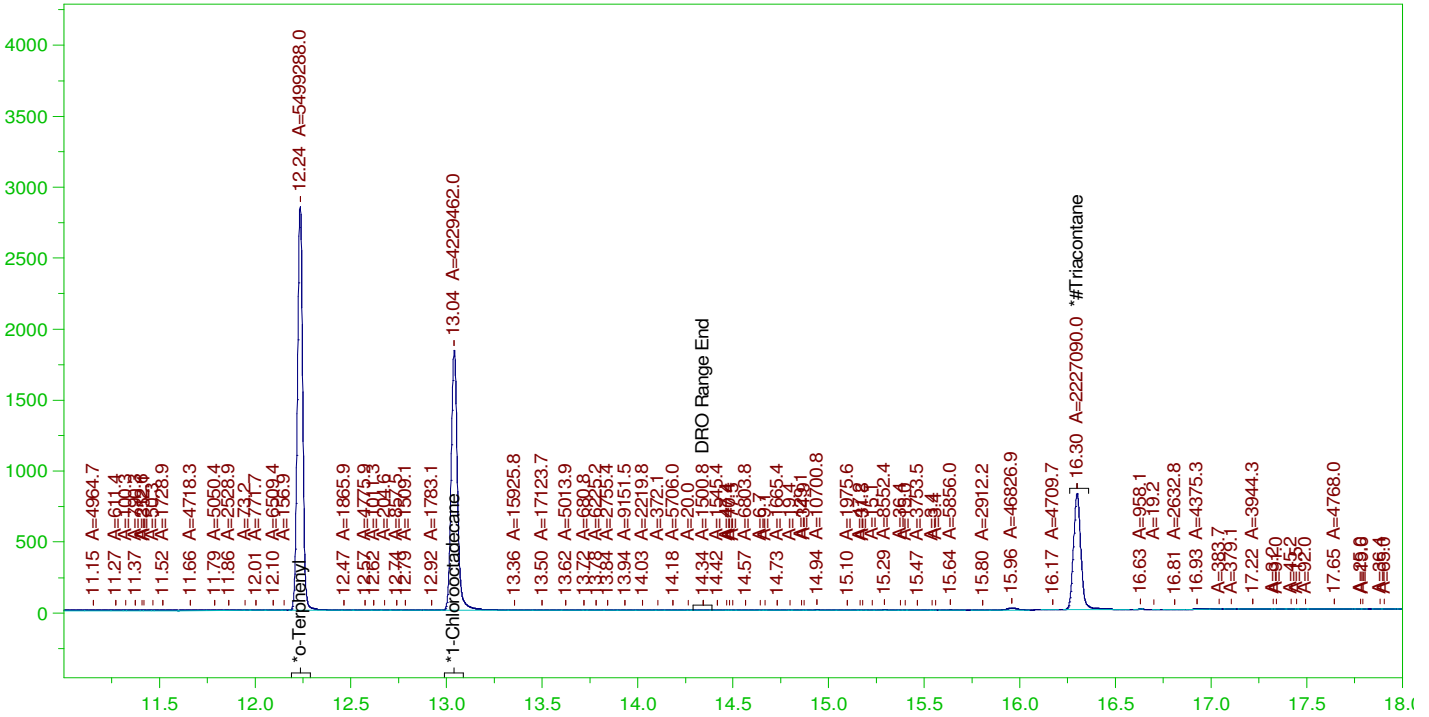
RRO Area:134216.4 RRO AMOUNT: 4.478428E-03

ERH1916 (Post-Chlorination)

Batch ID: 161348

G:\org\HP5\DAT\HP5111821_b\1118HP5.0040.RAW

B21111298-008A ;1118HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

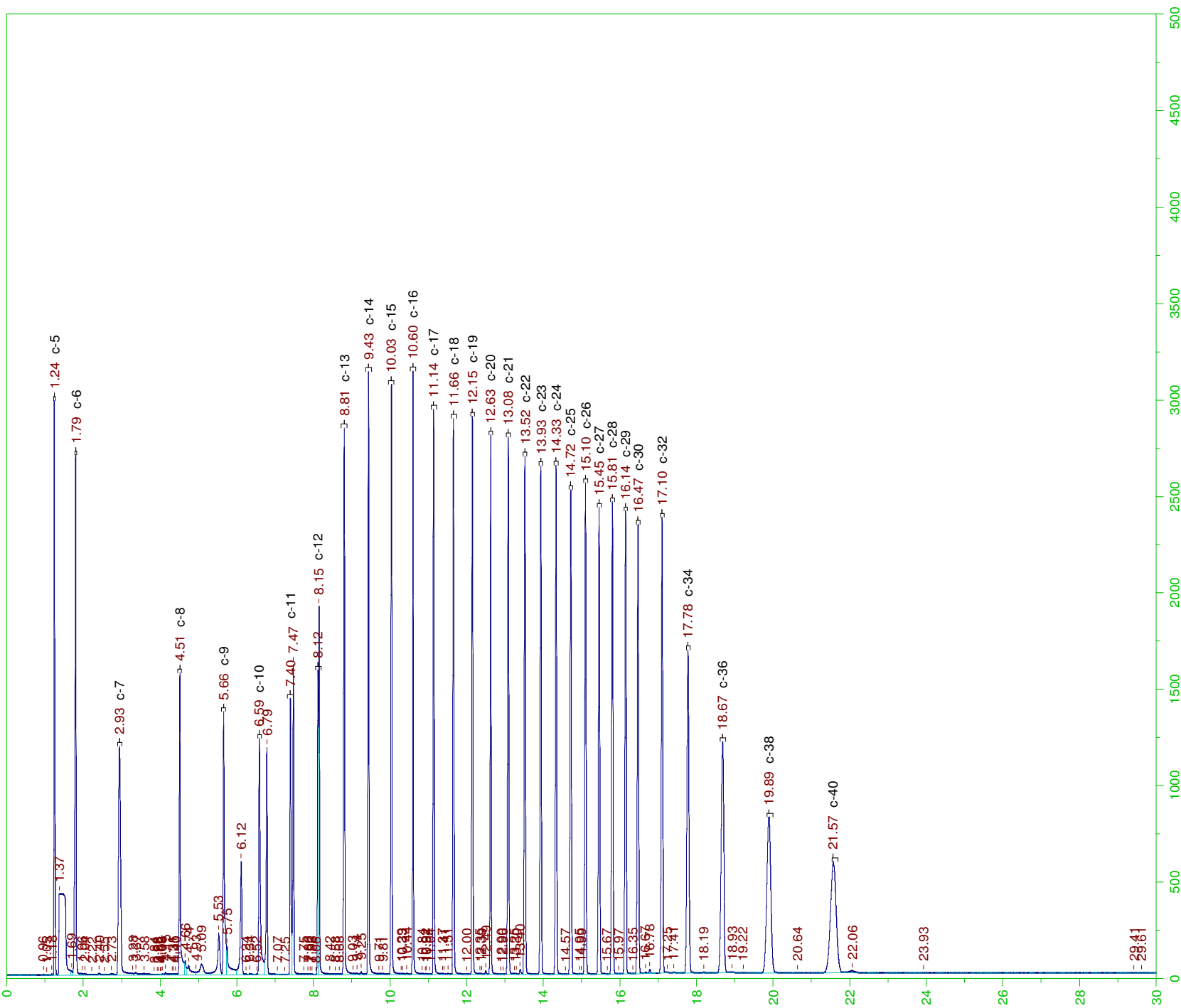
Sample Name: B21111298-008A ;1118HP5 , \$HC-8015-DRO-W, SGT
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 Date & Time Acquired: 11/19/2021 8:55:06 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-ID-L#.MET
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 Sample Weight: 1050 Dilution: 1 S.A.: 1

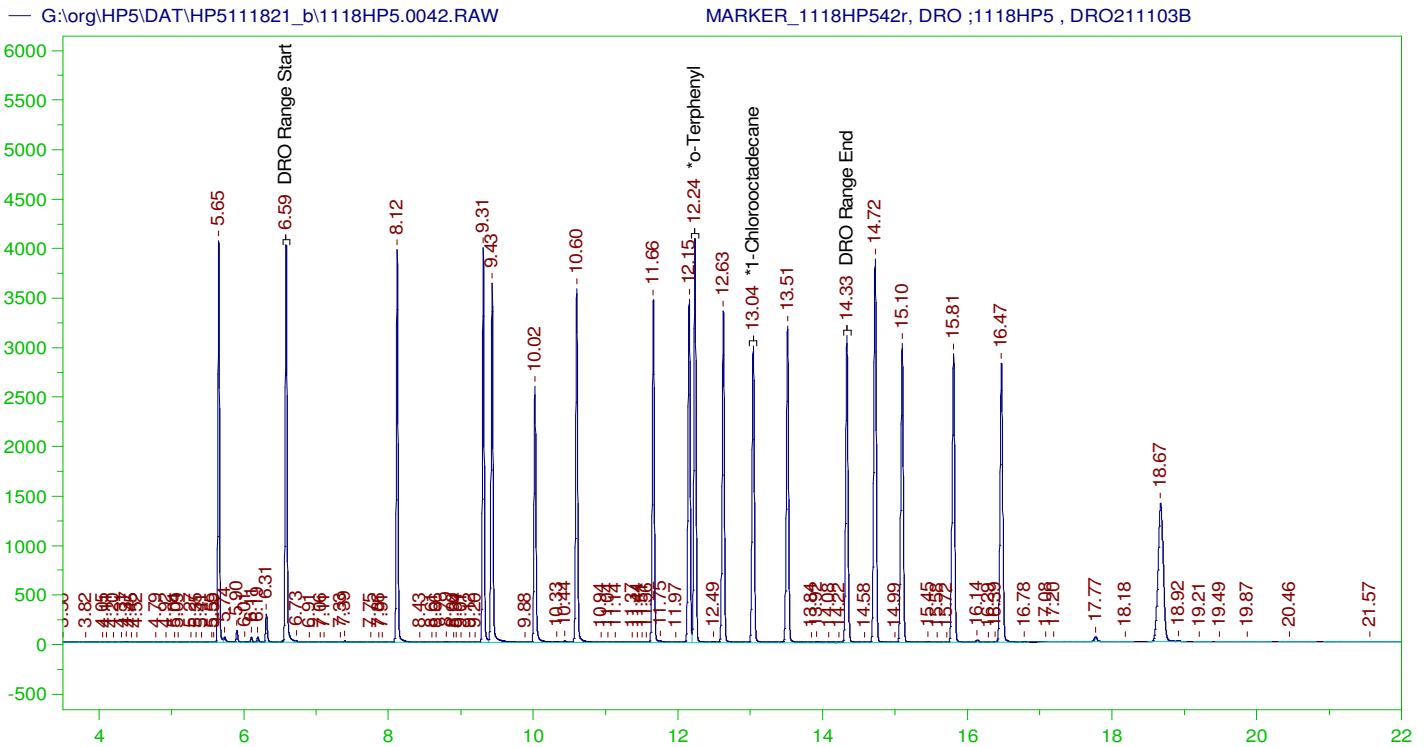
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.236	.19	.147	77.43	-
*1-Chlorooctadecane	13.041	.19	.113	59.55	-
*#Triacontane	16.298	.19	.073	38.49	-

DRO Area:266983.3 DRO Amount: 8.109855E-03
 TEH Area:478729.5 TEH Amount: 1.454183E-02





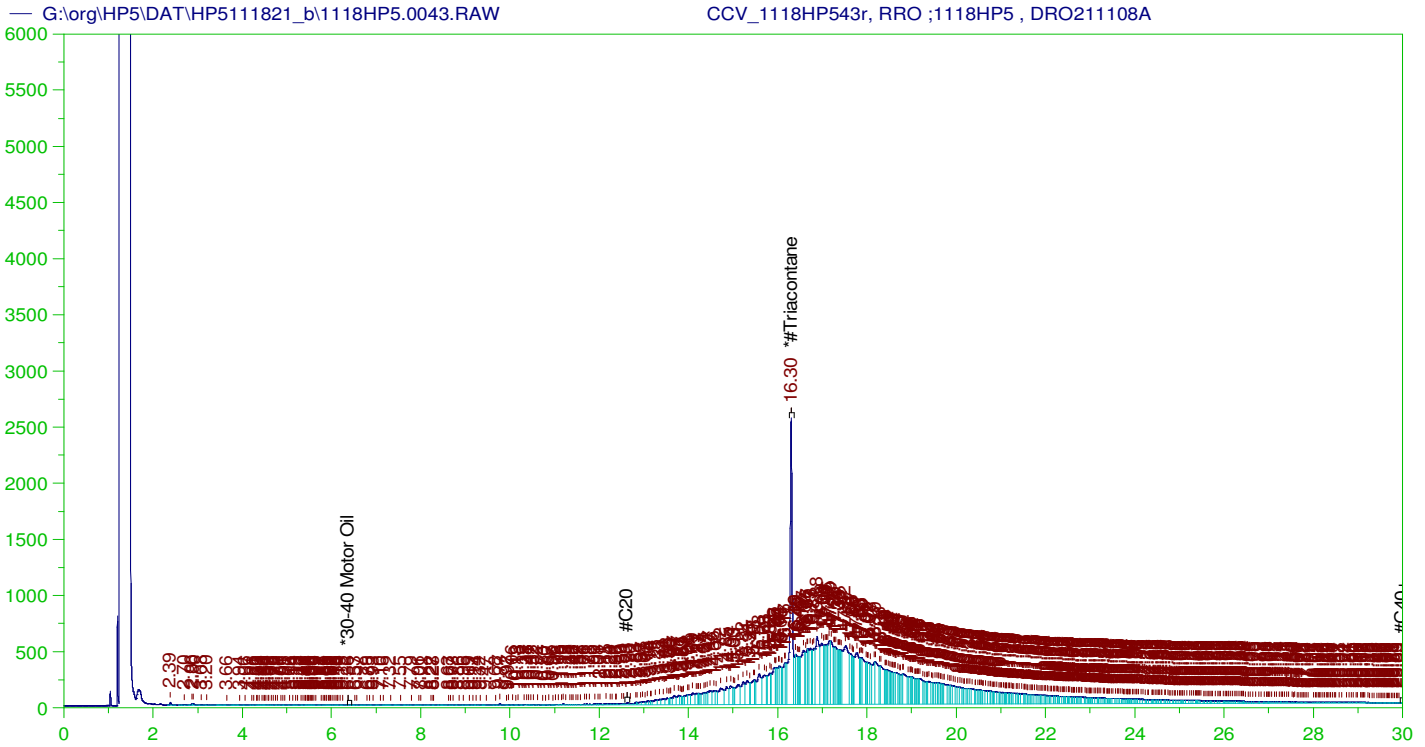
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MARKER_1118HP542r, DRO ;1118HP5 , DRO211103B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0042.RAW
 Date & Time Acquired: 11/19/2021 10:21:23 PM
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 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.236	.2	.22	109.87
*1-Chlorooctadecane	13.04	.2	.178	88.84

DRO Area: 7.409521E+07 DRO Amount: 2.363243
 TEH Area: 1.19945E+08 TEH Amount: 3.825606



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1118HP543r, RRO ;1118HP5 , DRO211108A
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0043.RAW
 Date & Time Acquired: 11/19/2021 11:04:27 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-AF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.299	500.	326.166	65.23	-

~~RRO~~ TEH(Oil Range) Area:1.299597E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4553.215

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0043.RAW

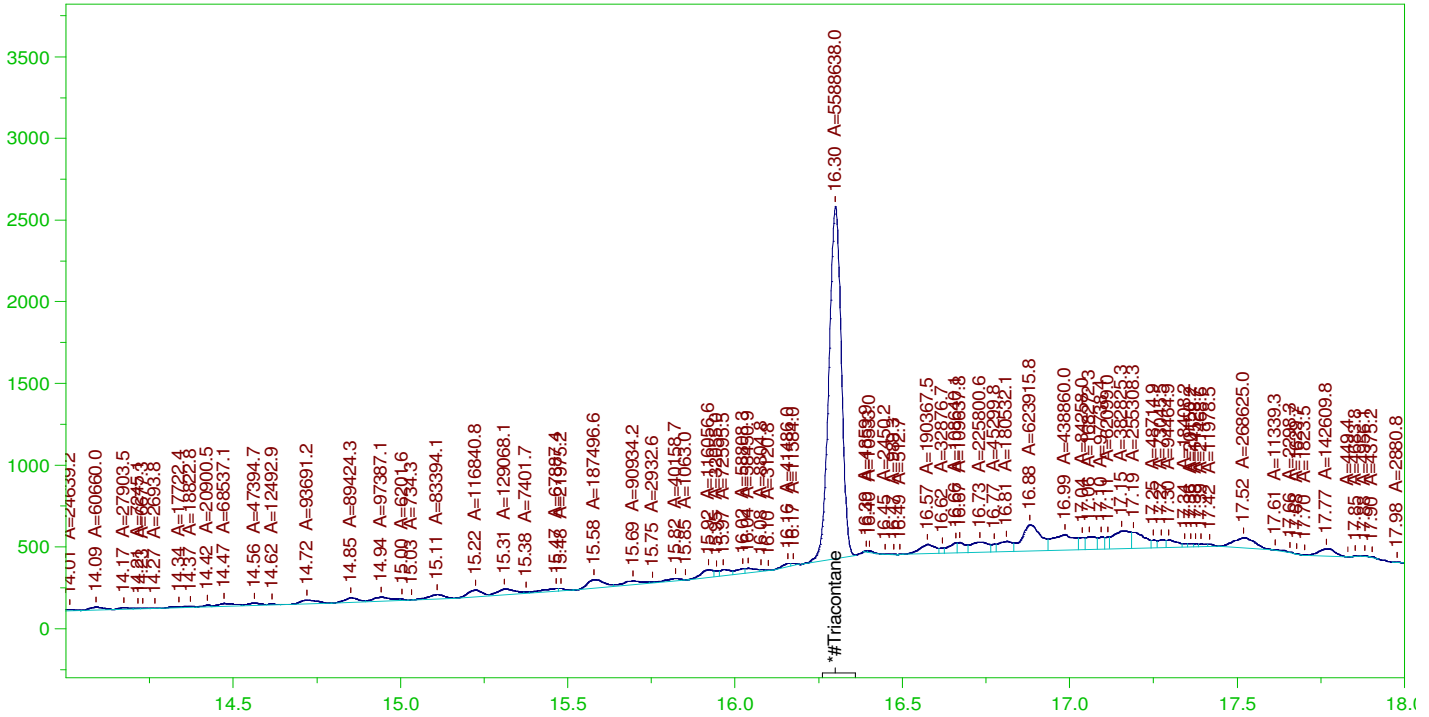
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.054	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.299	200.	326.166	163.08	75-125

AMN 11/22/2021

G:\org\HP5\DAT\HP5111821_b\1118HP5.0043.RAW

CCV_1118HP543r, RRO ;1118HP5 , DRO211108A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1118HP543r, RRO ;1118HP5 , DRO211108A
Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0043.RAW
Date & Time Acquired: 11/19/2021 11:04:27 PM
Method File: G:\Org\HP5\Methods\DS_OROb-AF-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AF.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: 12.58 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.299	500.	193.177	38.64	-

RRO Area:6188915 RRO AMOUNT: 216.8322

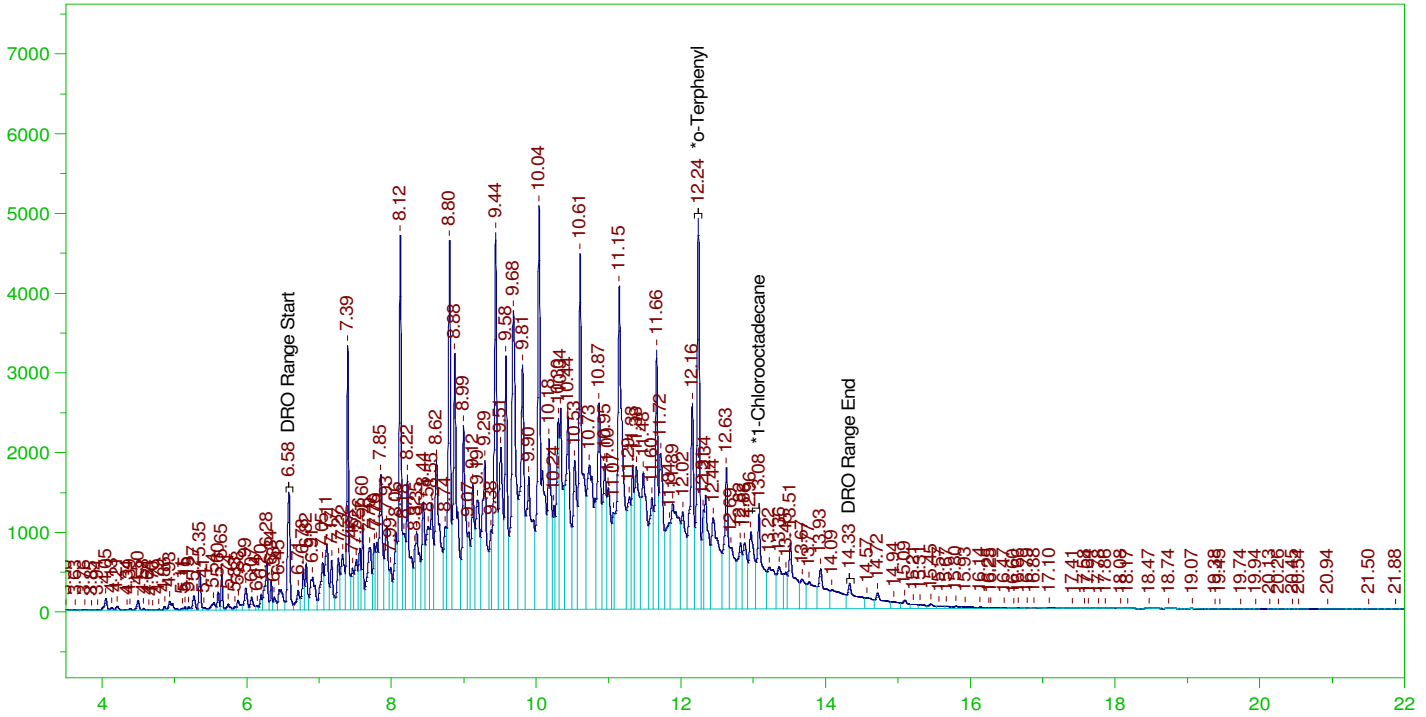
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0043.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.054	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.299	200.	193.177	96.59	75-125

G:\org\HP5\DAT\HP5111821_b\1118HP5.0044.RAW

CCV_1118HP544r, DRO 8015;1118HP5 , DRO211110B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1118HP544r, DRO 8015;1118HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0044.RAW
 Date & Time Acquired: 11/19/2021 11:47:28 PM
 Method File: G:\Org\HP5\Methods\DC_8015-24-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

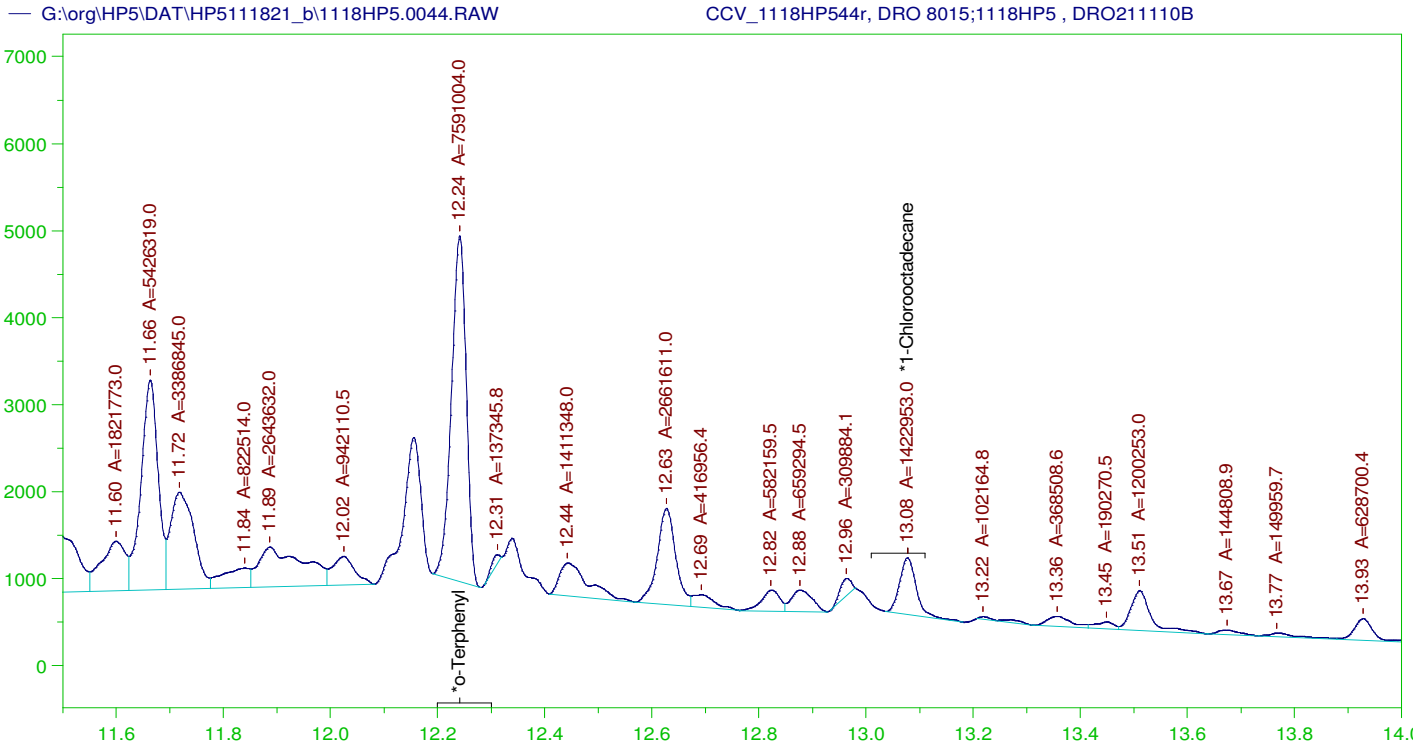
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.241	200.	355.518	177.76
*1-Chlorooctadecane	13.077	200.	167.19	83.59

DRO Area: 4.94371E+08 DRO Amount: 15767.8
 TEH Area: 5.114699E+08 TEH Amount: 16313.17

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0044.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	16313.17	108.75	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.241	200.	355.518	177.76	85-115
*1-Chlorooctadecane	13.077	200.	167.19	83.59	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1118HP544r, DRO 8015;1118HP5 , DRO211110B
 Raw File: G:\org\HP5\DAT\HP5111821_b\1118HP5.0044.RAW
 Date & Time Acquired: 11/19/2021 11:47:28 PM
 Method File: G:\Org\HP5\Methods\DS_8015-24-ID-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC-24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.55 to 14.4

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.241	200.	213.776	106.89
*1-Chlorooctadecane	13.077	200.	40.073	20.04

DRO Area: 2.719878E+08 DRO Amount: 8674.964
 TEH Area: 2.829677E+08 TEH Amount: 9025.163

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5111821_b\1118HP5.0044.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	9025.16	60.17	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.241	200.	213.776	106.89	85-115
*1-Chlorooctadecane	13.077	200.	40.073	20.04	85-115

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amnt Inj.	IS	Cal D	Manual Integrations
	G:\org\HP5\DAT\HP5111621_b\1116HP5.01r	DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.02r	DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.03r	MARKER_1116HP503r_DRO_1116HP5_DRO21110A	G:\org\HP5\Methods\CSC211116.met	1	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.04r	MARKER_1116HP504r_DRO_1116HP5_DRO211103B	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.05r	CCV_1116HP505r_RRO_1116HP5_DRO211108A	G:\Org\HP5\Methods\DC_ORO-AE-L%.MET G:\Org\HP5\Methods\DS_ORO-AE-L%.MET	1	1	1	1	1	0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.24 minutes and slightly after the surrogate peak at 16.39 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.06r	CCV_1116HP506r_DRO_8015;1116HP5_DRO211110B	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met G:\Org\HP5\Methods\DS_8015-24-IC-L%.met	1	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 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.07r	DCM-Baseline Check-V07	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.08r	LCS-161348_1116HP5_	G:\Org\HP5\Methods\D3_8015-111606-24-IC-L%.met G:\Org\HP5\Methods\DS_8015-24-IC-L%.met	1000	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 with split placed at 13.16 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.09r	LCS-161348_1116HP5_	G:\Org\HP5\Methods\D3_8015-24-IC-L%.met G:\Org\HP5\Methods\DS_8015-24-IC-L%.met	1000	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 with split placed at 13.16 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.10r	MB-161348_1116HP5_	G:\Org\HP5\Methods\DR_8015-C24T-IC-L%.met G:\Org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1000	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes for C10-C24 and TEH and Assigned Set Baseline All Valley on at 17.56 minutes for C24-C40. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.11r	B21111298-007A_1116HP5_ _SHC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IC-L%.met G:\Org\HP5\Methods\DR_OROS-AE-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1010	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes for C10-C24 and TEH and Assigned Set Baseline All Valley on at 17.56 minutes for C24-C40. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.12r	B21111298-006A_1116HP5_ _SHC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IC-L%.met G:\Org\HP5\Methods\DR_OROS-AE-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1040	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes for C10-C24 and TEH and Assigned Set Baseline All Valley on at 17.56 minutes for C24-C40. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.13r	B21111298-005A_1116HP5_ _SHC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1050	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.14r	B21111298-008A_1116HP5_ _SHC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met G:\Org\HP5\Methods\D3_OROS-AE-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1050	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.15r	DCM-Baseline Check-V15	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.16r	B21111298-004A_1116HP5_ _SHC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met G:\Org\HP5\Methods\DS_ORO-AE-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1000	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.17r	B21111298-003A_1116HP5_ _SHC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IC-L%.met G:\Org\HP5\Methods\D3_OROS-AE-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1040	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.18r	B21111290-001B_1116HP5_ _SHC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1050	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.19r	MARKER_1116HP519r_DRO_1116HP5_DRO21110A	G:\org\HP5\Methods\CSC211116.met	1	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.20r	MARKER_1116HP520r_DRO_1116HP5_DRO211103B	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.21r	CCV_1116HP521r_RRO_1116HP5_DRO211108A	G:\Org\HP5\Methods\DC_ORO-AE-L%.MET G:\Org\HP5\Methods\DS_ORO-AE-L%.MET	1	1	1	1	1	0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.24 minutes and slightly after the surrogate peak at 16.39 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.22r	CCV_1116HP522r_DRO_8015;1116HP5_DRO21110B	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met G:\Org\HP5\Methods\DS_8015-24-IC-L%.met	1	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 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.35r	MARKER_1116HP535r_DRO_1116HP5_DRO21110A	G:\org\HP5\Methods\CSC211116.met	1	1	1	1	1	0 No Integrations.
	G:\org\HP5\DAT\HP5111621_b\1116HP5.36r	MARKER_1116HP536r_DRO_1116HP5_DRO211103B	G:\Org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	1	0 No Integrations.

G:\org\HP5\DAT\HP5111621_b\1116HP5.37	CCV_1116HP537r, DRO 8015;1116HP5 , DRO211110B	G:\org\HP5\Methods\DC_8015-24-IC-L%.met G:\org\HP5\Methods\DS_8015-24-IC-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 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.38r	CCV_1116HP538r, RRO ;1116HP5 , DRO211108A	G:\org\HP5\Methods\DC_ORO-AE-L%.MET G:\org\HP5\Methods\DS_ORO-AE-L%.MET	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.24 minutes slightly after the surrogate peak at 16.39 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.39r	DCM-Baseline Check-V39	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No Integrations.
G:\org\HP5\DAT\HP5111621_b\1116HP5.40r	DCM-Baseline Check-V40	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No Integrations.
G:\org\HP5\DAT\HP5111621_b\1116HP5.41r	B21111290-001B ;1116HP5 , SHC-8015-DRO-W,	G:\org\HP5\Methods\DR_8015-C24T-IC-L%.met G:\org\HP5\Methods\DR_OROS-AE-L%.MET G:\org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1050	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes for C10-C24 and TEH and Assigned Set Baseline All Valley on at 17.56 minutes for C24-C40. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.42r	B21111298-005A ;1116HP5 , SHC-8015-DRO-W, RR	G:\org\HP5\Methods\DR_8015-11642-IC-L%.met G:\org\HP5\Methods\DR_OROS-11642-AE-L%.MET G:\org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1050	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline now at 24.01 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.44r	B21111298-001A ;1116HP5 , SHC-8015-DRO-W,	G:\org\HP5\Methods\D3_8015-C24T-IC-L%.met G:\org\HP5\Methods\D3_OROS-AE-L%.MET G:\org\HP5\Methods\DS_8015-C24T-IC-L%.MET	900	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.45r	B21111298-001AMS ;1116HP5 ,	G:\org\HP5\Methods\D3_8015-C24T-IC-L%.met G:\org\HP5\Methods\DS_8015-24-IC-L%.met	900	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.46r	DCM-Baseline Check-V46	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No Integrations.
G:\org\HP5\DAT\HP5111621_b\1116HP5.47r	B21111298-002A ;1116HP5 , SHC-8015-DRO-W,	G:\org\HP5\Methods\D3_8015-C24T-IC-L%.met G:\org\HP5\Methods\D3_OROS-AE-L%.MET G:\org\HP5\Methods\DS_8015-C24T-IC-L%.MET	1040	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.48r	B21111298-002AMS-RRO ;1116HP5 ,	G:\org\HP5\Methods\D3_ORO-AE-L%.MET G:\org\HP5\Methods\DS_ORO-AE-L%.MET	1040	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.24 minutes slightly after the surrogate peak at 16.39 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.49r	MARKER_1116HP549r, DRO ;1116HP5 , DRO211110A	G:\org\HP5\Methods\VCSC211116.met	1	1	1	1	0	No Integrations.
G:\org\HP5\DAT\HP5111621_b\1116HP5.50r	MARKER_1116HP550r, DRO ;1116HP5 , DRO211103B	G:\org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	0	No Integrations.
G:\org\HP5\DAT\HP5111621_b\1116HP5.51r	CCV_1116HP551r, RRO ;1116HP5 , DRO211108A	G:\org\HP5\Methods\DC_ORO-AE-L%.MET G:\org\HP5\Methods\DS_ORO-AE-L%.MET	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.24 minutes slightly after the surrogate peak at 16.39 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.52r	CCV_1116HP552r, DRO 8015;1116HP5 , DRO211110B	G:\org\HP5\Methods\DC_8015-24-IC-L%.met G:\org\HP5\Methods\DS_8015-24-IC-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 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.53r	DCM-Baseline Check-V53	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No Integrations.
G:\org\HP5\DAT\HP5111621_b\1116HP5.54r	LCS-161348-RRO ;1116HP5 ,	G:\org\HP5\Methods\D3_ORO-AE-L%.MET G:\org\HP5\Methods\DS_ORO-AE-L%.MET	1000	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.24 minutes slightly after the surrogate peak at 16.39 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.55r	DCM-Baseline Check-V55	G:\org\HP5\Methods\D3_ORO-AE-L0.MET	1	1	1	1	0	No Integrations.
G:\org\HP5\DAT\HP5111621_b\1116HP5.56r	LCS-161348-RRO ;1116HP5 ,	G:\org\HP5\Methods\D3_ORO-AE-L%.MET G:\org\HP5\Methods\DS_ORO-AE-L%.MET	1000	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.24 minutes slightly after the surrogate peak at 16.39 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5111621_b\1116HP5.57r	MARKER_1116HP557r, DRO ;1116HP5 , DRO211103B	G:\org\HP5\Methods\DC_8015-24-IC-L%.met	1	1	1	1	0	No Integrations.
G:\org\HP5\DAT\HP5111621_b\1116HP5.58r	CCV_1116HP558r, RRO ;1116HP5 , DRO211108A	G:\org\HP5\Methods\DC_ORO-AE-L%.MET G:\org\HP5\Methods\DS_ORO-AE-L%.MET	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.24 minutes slightly after the surrogate peak at 16.39 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.11.22 11:14:22 -07:00

G:\org\HP5\DAT\HP511821_b\1118HP5.27r	LCS-161348-RRO ;1118HP5 , SGT	G:\org\HP5\Methods\D3_ORO-AF-L%.MET G:\org\HP5\Methods\DS_OROb-AF-L%.MET	1000	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.19 minutes slightly after the surrogate peak at 16.38 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP511821_b\1118HP5.29r	DCM-Baseline Check-V27	G:\org\HP5\Methods\D3_ORO-AF-L%.MET	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP511821_b\1118HP5.28r	LCSD-161348-RRO ;1118HP5 , SGT	G:\org\HP5\Methods\D3_ORO-AF-L%.MET G:\org\HP5\Methods\DS_OROb-AF-L%.MET	1000	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.19 minutes slightly after the surrogate peak at 16.38 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP511821_b\1118HP5.29r	MARKER 1118HP529r, C40 ;1118HP5 , DRO211103B	G:\org\HP5\Methods\CSC211118.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP511821_b\1118HP5.30r	MARKER 1118HP530r, DRO ;1118HP5 , DRO211103B	G:\org\HP5\Methods\DC_8015-24-ID-L%.met	1000	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP511821_b\1118HP5.28r	CCV_1118HP531r, RRO ;1118HP5 , DRO211108A	G:\org\HP5\Methods\DC_ORO-AF-L%.MET G:\org\HP5\Methods\DS_OROb-AF-L%.MET	1	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.19 minutes slightly after the surrogate peak at 16.38 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP511821_b\1118HP5.32r	CCV_1118HP532r, DRO 8015 ;1118HP5 , DRO211108B	G:\org\HP5\Methods\DC_8015-24-ID-L%.met G:\org\HP5\Methods\DS_8015-24-ID-L#.met	1	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 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and slightly after the surrogate peak at 12.23 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP511821_b\1118HP5.33r	DCM-Baseline Check-V33	G:\org\HP5\Methods\DR_8015-C24T-ID-L0.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP511821_b\1118HP5.34r	DCM-Baseline Check-V34	G:\org\HP5\Methods\DR_8015-C24T-ID-L0.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP511821_b\1118HP5.35r	MARKER 1118HP535r, C40 ;1118HP5 , DRO211103A	G:\org\HP5\Methods\CSC211118.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP511821_b\1118HP5.36r	MARKER 1118HP536r, DRO ;1118HP5 , DRO211103B	G:\org\HP5\Methods\DC_8015-24-ID-L%.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP511821_b\1118HP5.37r	CCV_1118HP537r, RRO ;1118HP5 , DRO211108A	G:\org\HP5\Methods\DC_ORO-AF-L%.MET G:\org\HP5\Methods\DS_OROb-AF-L%.MET	1	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.19 minutes slightly after the surrogate peak at 16.38 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP511821_b\1118HP5.38r	CCV_1118HP538r, DRO 8015 ;1118HP5 , DRO211108B	G:\org\HP5\Methods\DC_8015-24-ID-L%.met G:\org\HP5\Methods\DS_8015-24-ID-L#.met	1	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 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and slightly after the surrogate peak at 12.23 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP511821_b\1118HP5.39r	DCM-Baseline Check-V39	G:\org\HP5\Methods\DR_8015-C24T-ID-L0.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP511821_b\1118HP5.40r	B2111298-008A ;1118HP5 , \$HC-8015-DRO-W, SGT	G:\org\HP5\Methods\DR_8015-C24T-ID-L%.met G:\org\HP5\Methods\DR_OROS-AF-L%.MET G:\org\HP5\Methods\DS_8015-C24T-ID-L#.MET	1050	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.21 minutes and slightly after the surrogate peaks at 12.52 and 16.64 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP511821_b\1118HP5.41r	MARKER 1118HP541r, C40 ;1118HP5 , DRO211103A	G:\org\HP5\Methods\CSC211118.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP511821_b\1118HP5.42r	MARKER 1118HP542r, DRO ;1118HP5 , DRO211103B	G:\org\HP5\Methods\DC_8015-24-ID-L%.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP511821_b\1118HP5.43r	CCV_1118HP543r, RRO ;1118HP5 , DRO211108A	G:\org\HP5\Methods\DC_ORO-AF-L%.MET G:\org\HP5\Methods\DS_OROb-AF-L%.MET	1	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 16.19 minutes slightly after the surrogate peak at 16.38 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP511821_b\1118HP5.44r	CCV_1118HP544r, DRO 8015 ;1118HP5 , DRO211108B	G:\org\HP5\Methods\DC_8015-24-ID-L%.met G:\org\HP5\Methods\DS_8015-24-ID-L#.met	1	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 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and slightly after the surrogate peak at 12.23 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.11.22 11:14:58 -07:00

Energy Laboratories Inc

Spike LOG

Standard ID: DRO211101A
Standard Name: OTP-4000 ug/mL DCM
Date Prepared: 11/1/2021
Date Expires: 9/30/2024
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Used to Prep DRO-8015 ICAL and CCV Solutions

Type: Secondary
BY: Ann Nebel
Status: Open

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC328	14408	25	mL	8/19/

Final Volume: 25 mL

Stock Source

DRO200430B O-Terphenyl

Base Units

ug/mL

Amount Added

0.1012 g

Analtes

A O-Terphenyl

CAS

84-15-1

Conc:

ug/mL

4000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO200430B
Standard Name: O-Terphenyl
Date Prepared: 4/30/2020
Date Expires: 9/30/2024
Department: dropr
Vendor: Chemservice
Lot Number: 9972100
Balance ID:
Comments: ID#: 6271

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	12650	500	mg	9/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A O-Terphenyl

84-15-1

1

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER N-12693-500MG
LOT NUMBER 9972100
DATE CERTIFIED 09/23/19
EXPIRATION DATE 09/30/24
CAS NUMBER 84-15-1
MOLECULAR FORMULA C18H14
MOLECULAR WEIGHT 230.32
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650

Opened: _____

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

Energyl Laboratories Inc 1120 So. 27th Street
Billings MT 59107

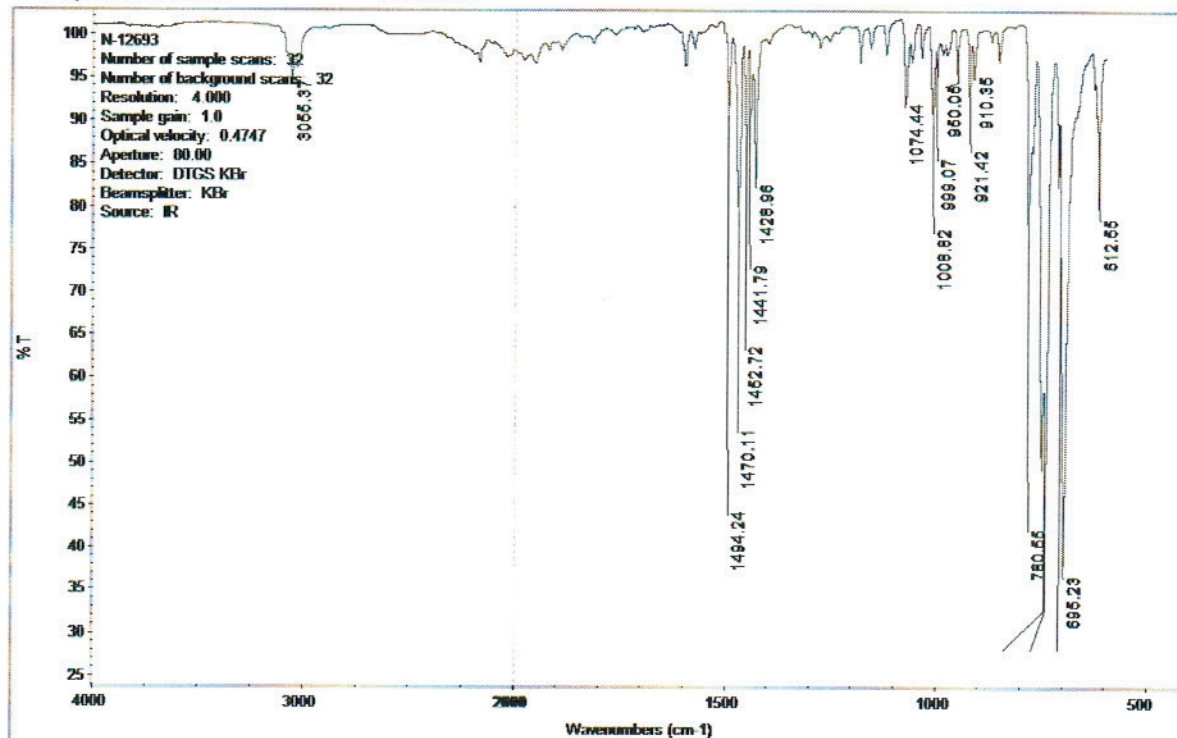
Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



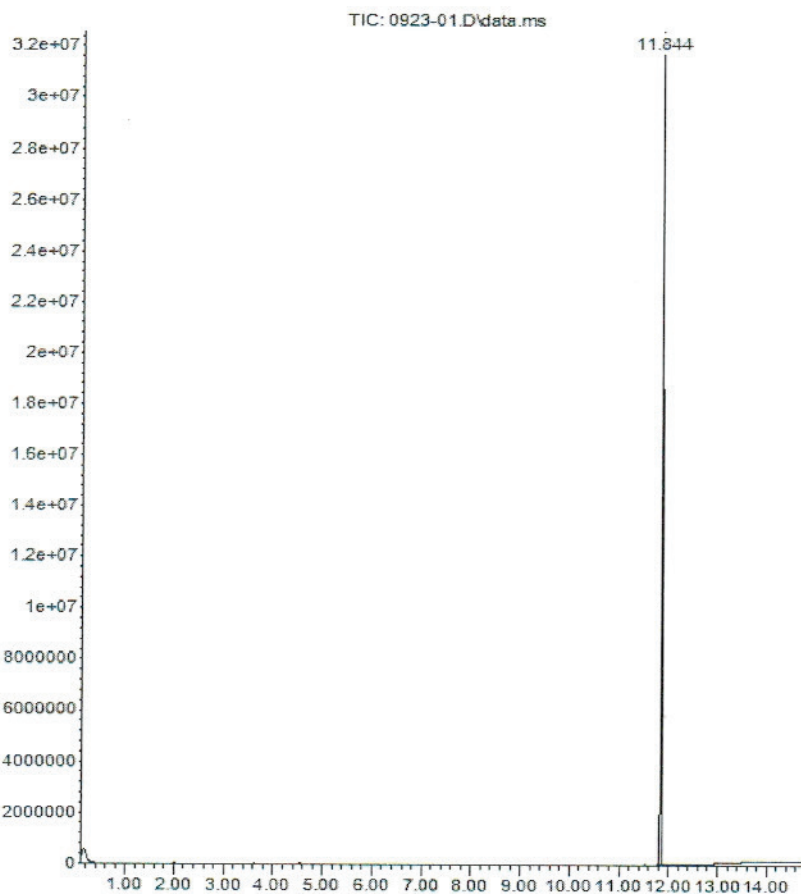
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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Time-->

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



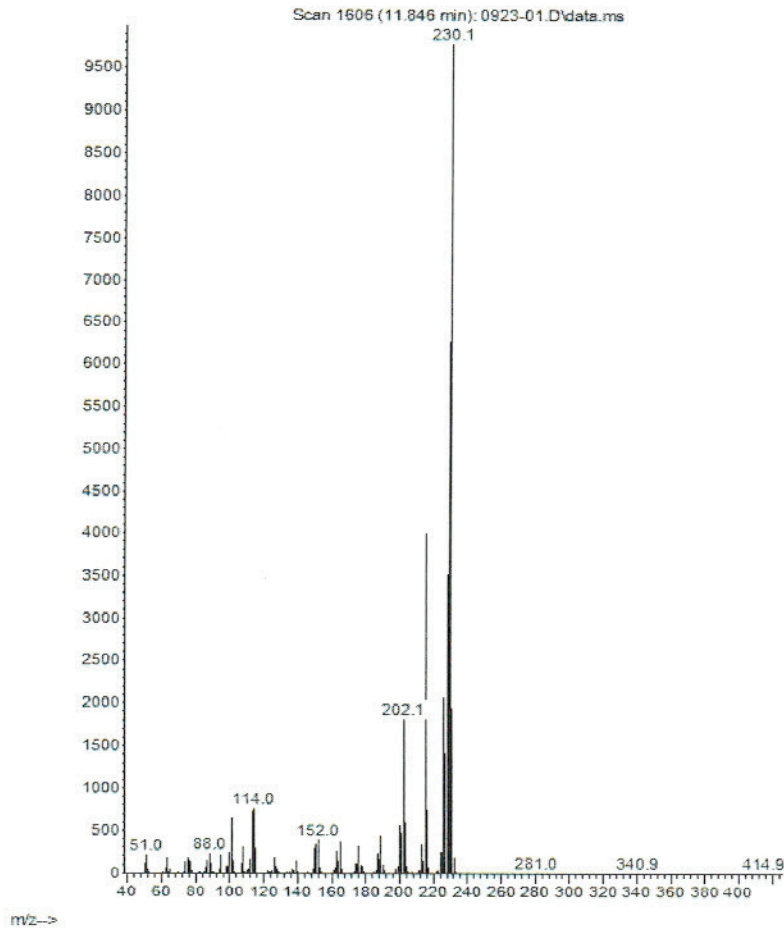
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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



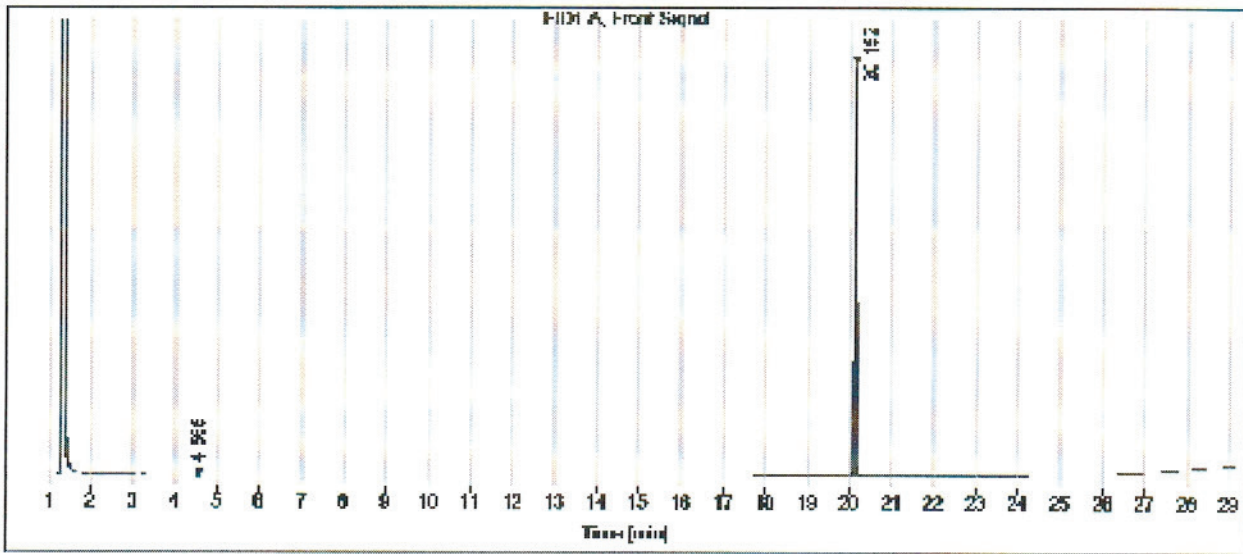
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 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

Gas

Data file: C:\CHEM3\
 Sample name: N-12893
 Instrument: GC 2
 Injection date: 8/23/2019 9:58:34 AM
 Acq. method: SCREEN.M
 Column name: HP-5

CERTIFICATE OF ANALYSIS

Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



Energy Laboratories Inc

Standard LOG

Standard ID: DRO211012A
Standard Name Diesel Fuel #2 50,000 ug/mL in DCM
Date Prepared 10/12/2021
Date Expires: 4/30/2023
Department dropr
Vendor: Sigma-Aldrich
Lot Number: LRAC6316
Balance ID:
Comments: Diesel Fuel #2 For CCVs.

Type: Primary
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Diesel Fuel No. 2	14376	1	mL	4/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

Diesel Fuel #2

0

Certificate of Analysis

Diesel Fuel No. 2

Certified
Reference
Material

Description

Product ID UST148
Lot LRAC6316
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

ID #: 14376

Opened: _____

Diesel Fuel No. 2

Expires: 4/30/2023

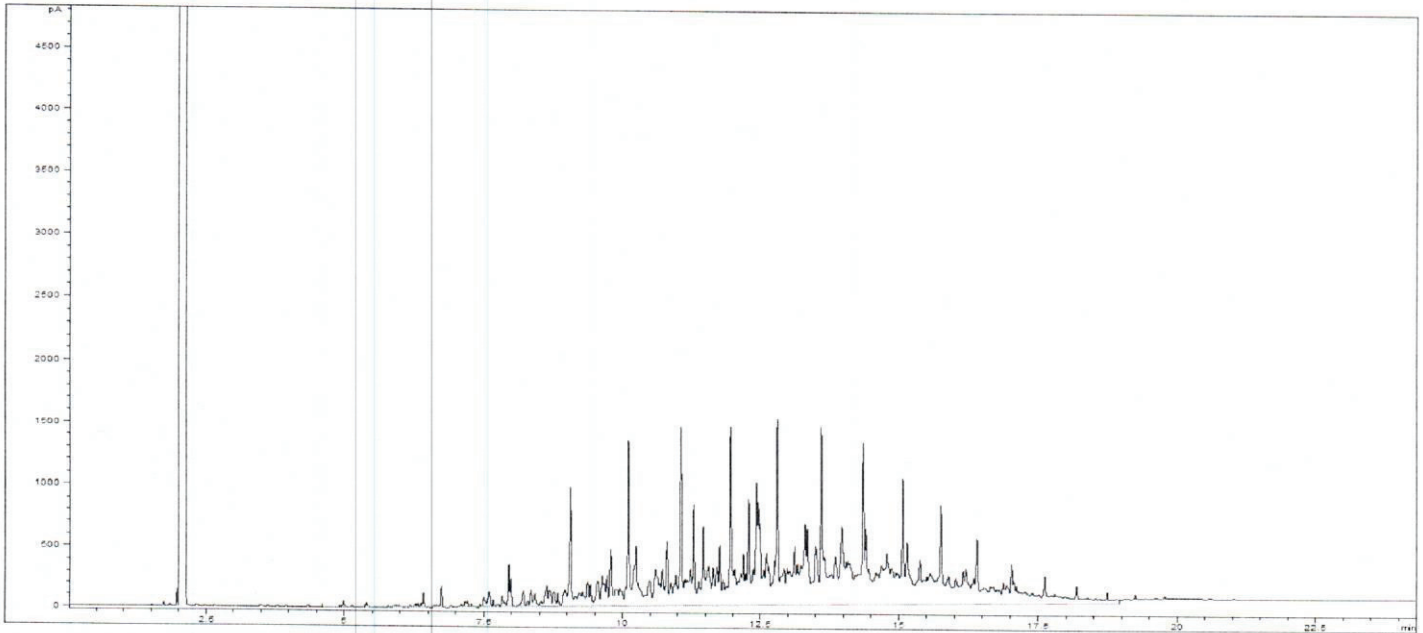
Rec'd: 10/12/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Certified Values

Analyte	Certified Value ^{1,4}	Units	Raw Material Purity,%	Raw Material Lot	CAS
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

Informational Values



Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H₂, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10:1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



SIGMA-ALDRICH®

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832

TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot **LRAC6316**
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

1 Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

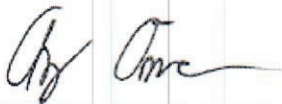
Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

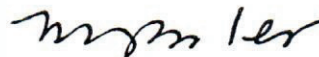
Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

Certification Date April 30, 2020
Version 0-4302020



Energy Laboratories Inc

Standard LOG

Standard ID: DRO180918C
Standard Name: 50,000 ug/mL Oil Std For AK103 RRO-In DC
Date Prepared: 9/18/2018
Date Expires: 8/31/2025
Department: dropr
Vendor: Restek
Lot Number: A0140080
Balance ID: Sartorius 4 place balance

Type: Primary
BY: Ann Nebel
Status: Open

Comments:

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Residual Range Calibration Standard	10787	1	mL	8/31/

Final Volume: 1 mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: **ug/mL**



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31817 Lot No.: A0140080

Description : Residual Range Calibration Standard (RCS)

Residual Range Calib Std (RCS) 50,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : August 31, 2025 Storage: 25°C nominal

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F (Lot A0126386) Purity ----%	50,113.0 µg/mL	+/- 293.4226	µg/mL	Gravimetric
			+/- 1,492.4284	µg/mL	Unstressed
			+/- 1,591.6738	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

ID #: 10787
Opened: _____
Residual Range Calibration Standard
Expires: 8/31/2025
Rec'd: 9/18/2018
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

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

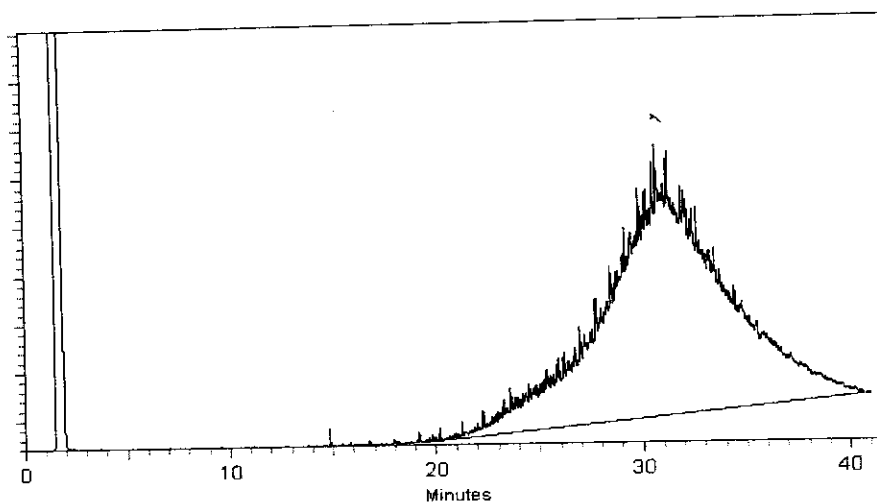
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish

Brandon Reish - Mix Technician

Date Mixed: 28-Jul-2018

Balance: B345965662

Diane Shaffer

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 30-Jul-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211006A
Standard Name: Triacontane SURR 2000 ug/mL
Date Prepared: 10/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Triacontane SURR 2000 ug/mL

Type: Secondary
BY: Jillian L Bostwick
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source
DRO210406A Triacontane-d62 Surr For AK103 RRO

Base Units
ug/mL

Amount Added
0.1001 g

Analtes
A Triacontane-d62

CAS

Conc: **ug/mL**
2000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210406A
Standard Name: Triacontane-d62 Surr For AK103 RRO
Date Prepared: 4/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor: Sigma-Aldrich
Lot Number: MBBC4347
Balance ID:
Comments: Alaska surr [for AK103 RRO]

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Triacontane-d62-98 atom % D	13736		mL	4/6/2026

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A Triacontane-d62

1

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d62 - 98 atom % D

Product Number: 451789
 Batch Number: MBBC4347
 Brand: ALDRICH
 CAS Number: 93952-07-9
 MDL Number: MFCD00209794
 Formula: C30D62
 Formula Weight: 485.20 g/mol
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: _____

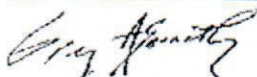
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energx Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C



Greg Abernathy, Supervisor
 Quality Control
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211012B
 Standard Name: #2 Diesel in Acetone 150,000 ug/mL
 Date Prepared: 10/12/2021
 Date Expires: 11/5/2023
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID: BAL-DRO
 Comments: #2 Diesel in Acetone 150,000 ug/mL.

Type: Secondary
 BY: Ann Nebel
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone EA662	14050	25	mL	1/7/2

Final Volume: 25 mL

Stock Source
 DRO181105A #2 Diesel (NEAT)

Base Units
 ug/mL

Amount Added
 3.7507 g

Analtes
 A #2 Diesel

CAS
 68476-34-6

Conc: **ug/mL**
 150000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO181105A
Standard Name: #2 Diesel (NEAT) Type: Neat
Date Prepared: 11/5/2018 BY: Ann Nebel
Date Expires: 11/5/2023
Department: dropr Status: New
Vendor: conoco
Lot Number:
Balance ID:
Comments: -18 Cloud peak. (Conoco Gas Station 1240 S. 27th Billings, MT) 2nd Source

<u>Stock Source</u>	<u>Base Units</u>	<u>Final Volume:</u>	<u>Amount Added</u>
<u>Analvtes</u>	<u>CAS</u>	250 mL	
A #2 Diesel	68476-34-6	Conc:	ug/mL 1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210217A
 Standard Name: 20,000 ug/mL Oil Std For AK103 RRO-In DC
 Date Prepared: 2/17/2021
 Date Expires: 8/23/2021
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID: Sartorius 4 place balance
 Comments:

Type: Secondary
 BY: Ann Nebel
 Status: Expired

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EA342	13510	25	mL	11/17

Final Volume: 25 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO160823C 30W Motor Oil-Valvoline	ug/mL	0.2501 g
DRO160823D 40W Motor Oil-Valvoline	ug/mL	0.2527 g

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A 30W Motor Oil			10000
A 30W-Motor oil			0
A 40W Motor Oil			10000
A 40W-Motor oil			0

Energy Laboratories Inc

Standard LOG

Standard ID: DRO160823C
Standard Name: 30W Motor Oil-Valvoline
Date Prepared: 8/23/2016
Date Expires: 8/23/2021
Department: dropr
Vendor:
Lot Number:
Balance ID:
Type: Primary
BY: Todd C Cooper
Status: Expired
Comments: Used to make 2nd Source Standard for AK103 method.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 30 Motor Oil	8637		mL	8/23/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A 30W-Motor oil

1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO160823D
Standard Name: 40W Motor Oil-Valvoline
Date Prepared: 8/23/2016
Date Expires: 8/23/2021
Department: dropr
Vendor:
Lot Number:
Balance ID:
Type: Primary
BY: Todd C Cooper
Status: Expired
Comments: Used to Make 2nd Source Standards For Alaska AK103 RRO Method

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 40 Motor Oil	8638		mL	8/23/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A 40W-Motor oil

1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211012B
 Standard Name: #2 Diesel in Acetone 150,000 ug/mL
 Date Prepared: 10/12/2021
 Date Expires: 11/5/2023
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID: BAL-DRO
 Comments: #2 Diesel in Acetone 150,000 ug/mL.

Type: Secondary
 BY: Ann Nebel
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone EA662	14050	25	mL	1/7/2

Final Volume: 25 mL

Stock Source
 DRO181105A #2 Diesel (NEAT)

Base Units
 ug/mL

Amount Added
 3.7507 g

Analtes
 A #2 Diesel

CAS
 68476-34-6

Conc: ug/mL
 150000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO181105A
Standard Name #2 Diesel (NEAT) Type: Neat
Date Prepared 11/5/2018 BY: Ann Nebel
Date Expires: 11/5/2023
Department dropr Status: New
Vendor: conoco
Lot Number:
Balance ID:
Comments: -18 Cloud peak. (Conoco Gas Sation 1240 S. 27th Billings, MT) 2nd Source

<u>Stock Source</u>	<u>Base Units</u>	<u>Final Volume:</u>	<u>Amount Added</u>
<u>Analvtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A #2 Diesel	68476-34-6	250 mL	1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211110B
 Standard Name: 8015 CCV-15,000ug/mL + 200 OTP
 Date Prepared: 11/10/2021
 Date Expires: 4/30/2023
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID:
 Comments: 8015DRO CCV MIX-15,000ug/mL +200 OTP #2 Diesel

Type: Secondary
 BY: Ann Nebel
 Status: Open

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC480	14470	2.6	mL	9/16/

Final Volume: 4 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO211102B Diesel Fuel #2 50,000 ug/mL in DCM	ug/mL	0.2 mL
DRO211101A OTP-4000 ug/mL DCM	ug/mL	1.2 mL

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A #2 Diesel			15000
Diesel Fuel #2			0
A O-Terphenyl	84-15-1		200

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211102B
Standard Name Diesel Fuel #2 50,000 ug/mL in DCM Type: Primary
Date Prepared 11/2/2021 BY: Ann Nebel
Date Expires: 4/30/2023
Department dropr Status: New
Vendor: Sigma-Aldrich
Lot Number: LRAC6316
Balance ID:
Comments: Diesel Fuel #2 For CCVs.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Diesel Fuel No. 2	14478	1	mL	4/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

Diesel Fuel #2

0

Certificate of Analysis

Diesel Fuel No. 2

Certified
Reference
Material

Description

Product ID UST148
Lot LRAC6316
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

ID #: 14478

Opened: _____

Diesel Fuel No. 2

Expires: 4/30/2023

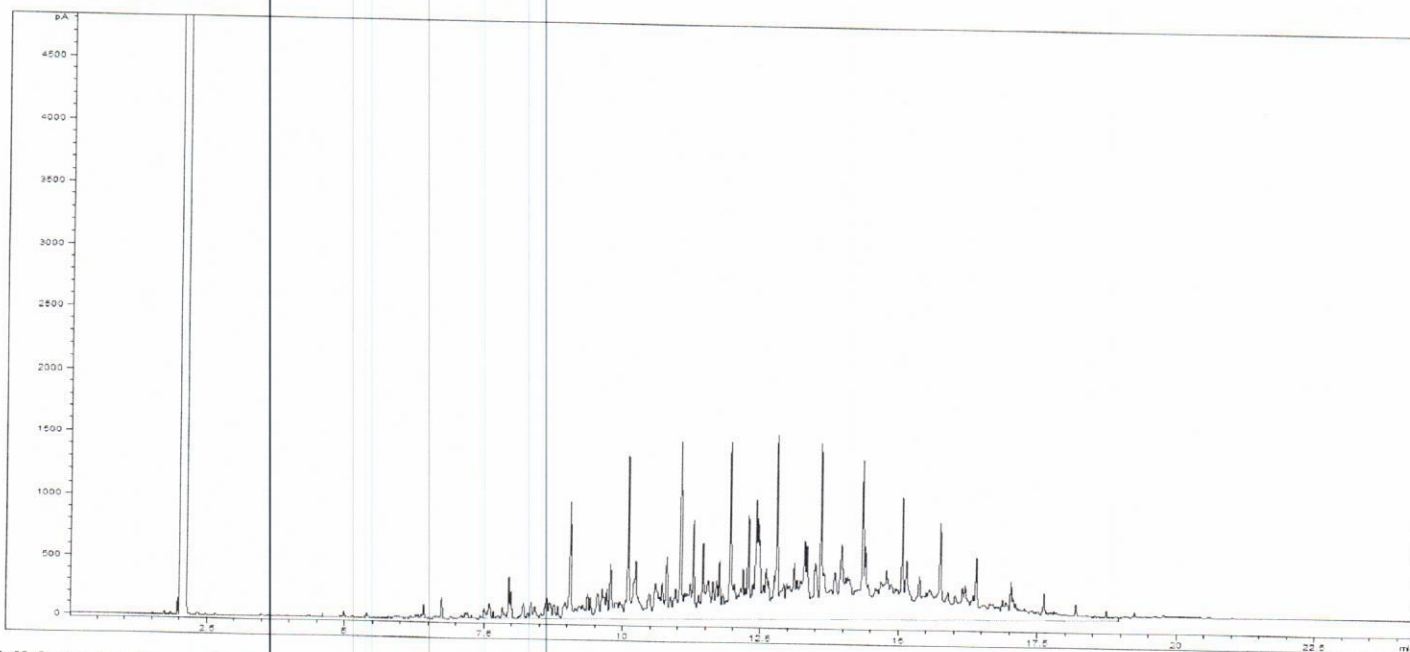
Rec'd: 11/2/2021

Energex Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Certified Values

Analyte	Certified Value ^{1,4}	Units	Raw Material Purity, %	Raw Material Lot	CAS
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

Informational Values



Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H₂, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10: 1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



SIGMA-ALDRICH®

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot **LRAC6316**
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

1 Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

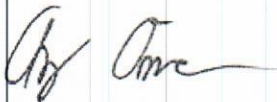
Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470)**.



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

Certification Date April 30, 2020
Version 0-4302020



Energy Laboratories Inc

Spike LOG

Standard ID: DRO211101A
Standard Name: OTP-4000 ug/mL DCM
Date Prepared: 11/1/2021
Date Expires: 9/30/2024
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Used to Prep DRO-8015 ICAL and CCV Solutions

Type: Secondary
BY: Ann Nebel
Status: Open

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC328	14408	25	mL	8/19/

Final Volume: 25 mL

Stock Source

DRO200430B O-Terphenyl

Base Units

ug/mL

Amount Added

0.1012 g

Analtes

A O-Terphenyl

CAS

84-15-1

Conc:

ug/mL

4000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO200430B
Standard Name: O-Terphenyl
Date Prepared: 4/30/2020
Date Expires: 9/30/2024
Department: dropr
Vendor: Chemservice
Lot Number: 9972100
Balance ID:
Comments: ID#: 6271

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	12650	500	mg	9/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A O-Terphenyl

84-15-1

1

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER N-12693-500MG
LOT NUMBER 9972100
DATE CERTIFIED 09/23/19
EXPIRATION DATE 09/30/24
CAS NUMBER 84-15-1
MOLECULAR FORMULA C₁₈H₁₄
MOLECULAR WEIGHT 230.32
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650

Opened: _____

o-Terphenyl

Expires: 9/30/2024

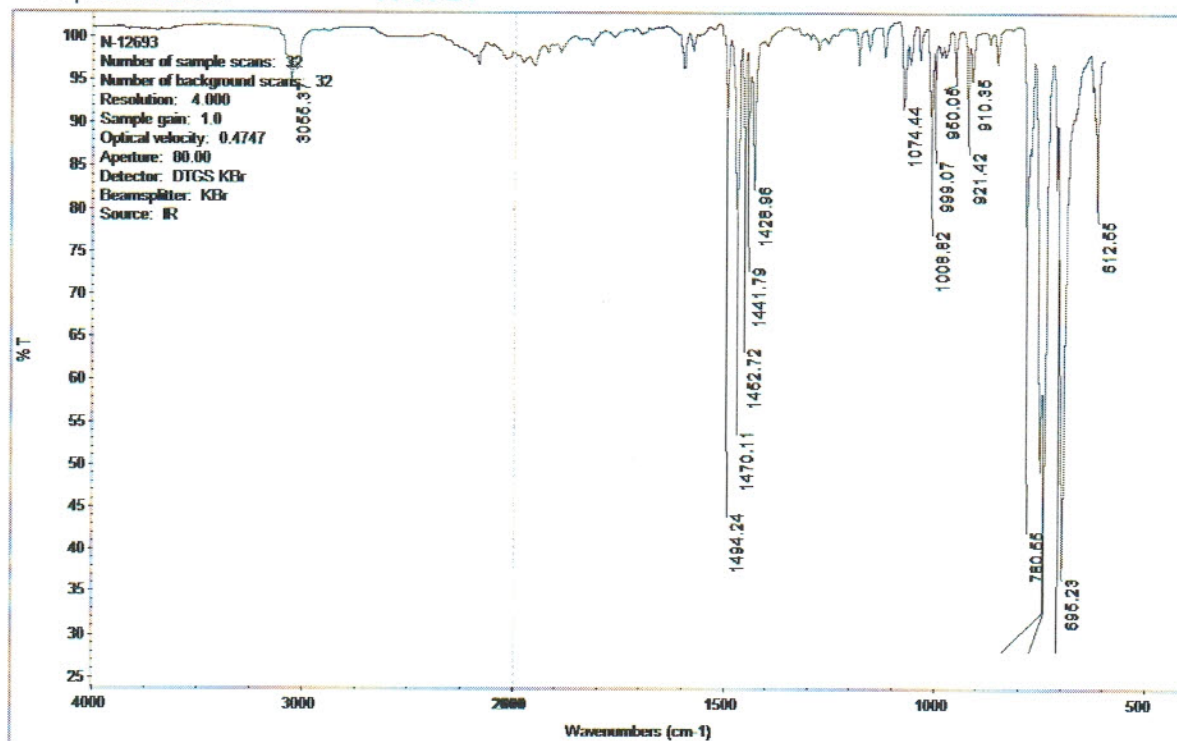
Rec'd: 4/30/2020

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24
Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

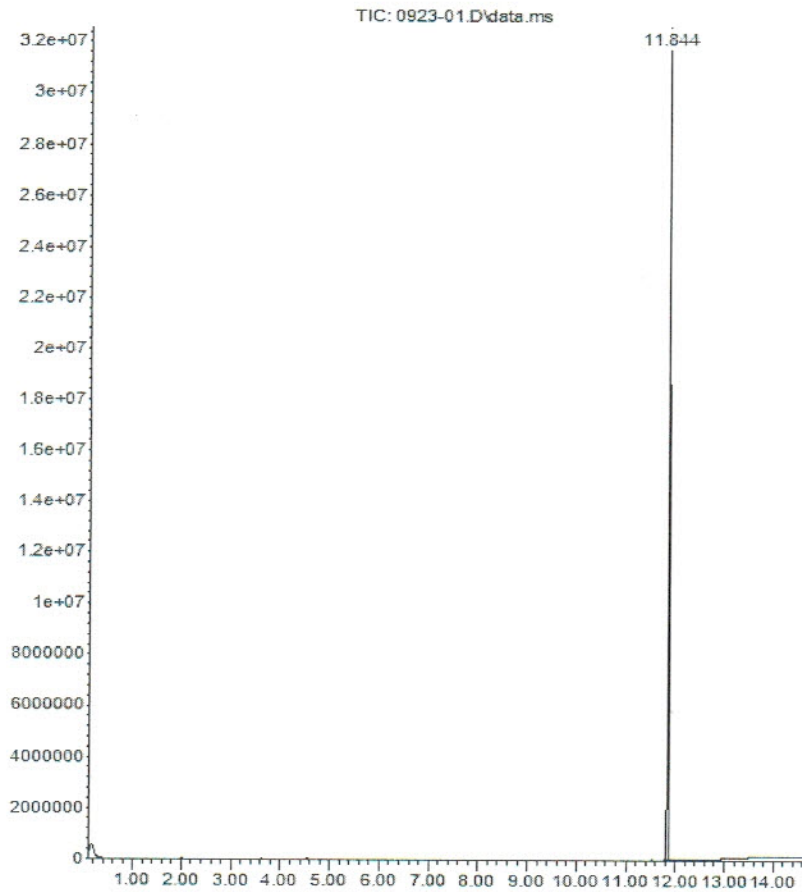
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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem. Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



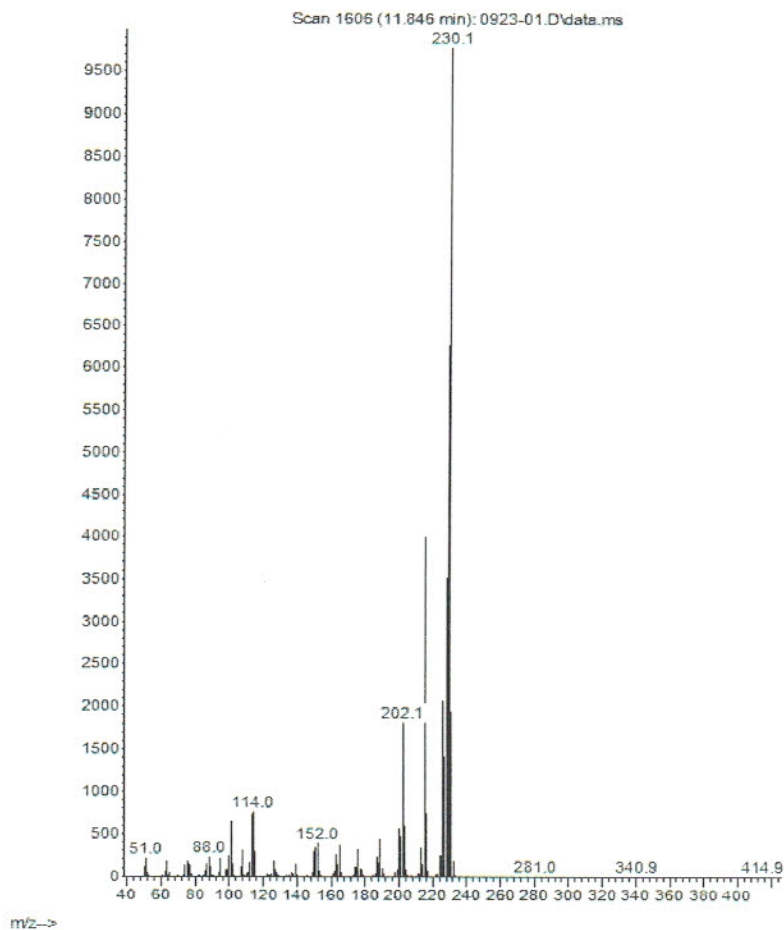
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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



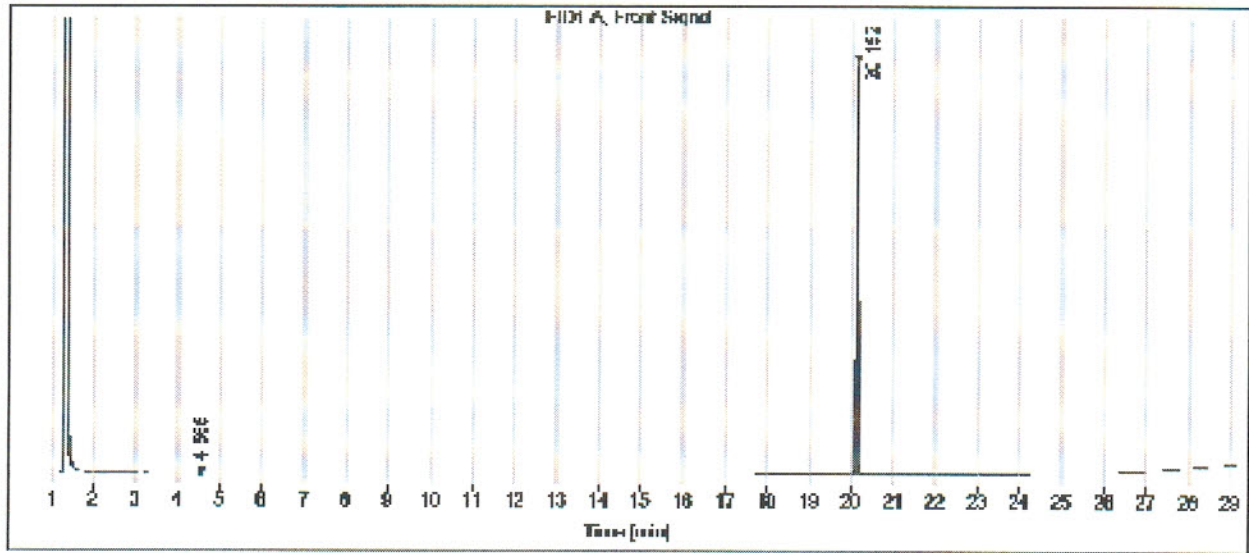
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 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

Gas

Data file: C:\CHEM3\
 Sample name: N-12683
 Instrument: GC 2
 Injection date: 9/23/2019 9:58:34 AM
 Acq. method: SCREEN.M
 Column name: HP-5

CERTIFICATE OF ANALYSIS

Sample type:
 Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



Energy Laboratories Inc

Standard LOG

Standard ID: DRO211008A
 Standard Name: 5,000 ug/mL RRO CCV 200 ug/mL Triaconta Type: Secondary
 Date Prepared: 10/8/2021 BY: Ann Nebel
 Date Expires: 4/6/2026
 Department: dropr Status: New
 Vendor:
 Lot Number:
 Balance ID: Sartorius 4 place balance
 Comments: CCV for AK102 and 8015C RRO.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC119	14354	2.8	mL	8/3/21

Final Volume: 4 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO210401B 50,000 ug/mL Oil Std For AK103 RRO-I	ug/mL	400 µL
DRO211006A Triacontane SURR 2000 ug/mL	ug/mL	800 µL

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A Oil			5000
A Triacontane-d62			200

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210401B
Standard Name 50,000 ug/mL Oil Std For AK103 RRO-In DC Type: Primary
Date Prepared 4/1/2021 BY: Ann Nebel
Date Expires: 1/31/2028
Department dropr Status: Open
Vendor: Restek
Lot Number: A0166827
Balance ID: Sartorius 4 place balance

Comments:

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Residual Range Calibration Standard (	13714	1	mL	1/31/

Final Volume: 1 mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: **ug/mL**



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31817 **Lot No.:** A0166827

Description : Residual Range Calibration Standard (RCS)
Residual Range Calib Std (RCS) 50,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : January 31, 2028 **Storage:** 25°C nominal

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F (Lot A0126386) Purity ----%	50,056.0 µg/mL	+/- 293.0889 µg/mL	+/- 1,490.7309 µg/mL	+/- 1,589.8634 µg/mL
			Gravimetric	Unstressed	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

ID #: 13714
Opened: _____
Residual Range Calibration Standard (RCS)
Expires: 1/31/2028
Rec'd: 4/1/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

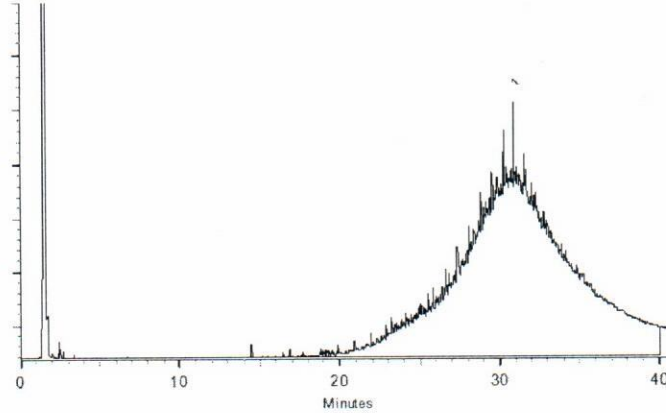
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kylie Struble
Kylie Struble - Operations Technician I

Date Mixed: 02-Dec-2020

Balance: 1128353505

Justin Albertson
Justin Albertson - Operations Tech-ARM QC

Date Passed: 07-Dec-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211006A
Standard Name: Triacontane SURR 2000 ug/mL
Date Prepared: 10/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Triacontane SURR 2000 ug/mL

Type: Secondary
BY: Jillian L Bostwick
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source
DRO210406A Triacontane-d62 Surr For AK103 RRO

Base Units
ug/mL

Amount Added
0.1001 g

Analtes
A Triacontane-d62

CAS

Conc: **ug/mL**
2000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210406A
Standard Name: Triacontane-d62 Surr For AK103 RRO
Date Prepared: 4/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor: Sigma-Aldrich
Lot Number: MBBC4347
Balance ID:
Comments: Alaska surr [for AK103 RRO]

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Triacontane-d62-98 atom % D	13736		mL	4/6/2026

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A Triacontane-d62

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d62 - 98 atom % D

Product Number: 451789
 Batch Number: MBBC4347
 Brand: ALDRICH
 CAS Number: 93952-07-9
 MDL Number: MFCD00209794
 Formula: C30D62
 Formula Weight: 485.20 g/mol
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: _____

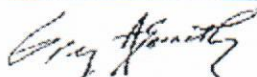
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C



Greg Abernathy, Supervisor
 Quality Control
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210902A
 Standard Name: 50,000 ug/mL Oil Std for RRO-In DCM
 Date Prepared: 9/2/2021
 Date Expires: 9/1/2026
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID: BAL-DRO
 Comments: .625 g of 30W and 40 W each LCS for Oil range

Type: Secondary
 BY: Jillian L Bostwick
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EB867	14196	25	mL	6/18/

Final Volume: 25 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO210901B 40W Motor Oil-Valvoline	ug/mL	0.6261 g
DRO210901A 30W Motor Oil-Valvoline	ug/mL	0.6254 g

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A 30W Motor Oil			10000
A 30W-Motor oil			0
A 40W Motor Oil			10000
A 40W-Motor oil			0

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210901B
 Standard Name: 40W Motor Oil-Valvoline
 Date Prepared: 9/1/2021
 Date Expires: 9/1/2026
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID:
 Comments: Used to Make 2nd Source Standards For Alaska AK103 RRO Method and Oil

Type: Primary
 BY: Jillian L Bostwick
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 40 Motor Oil	14231		mL	9/1/2026

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A 40W-Motor oil

1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210901A
Standard Name: 30W Motor Oil-Valvoline
Date Prepared: 9/1/2021
Date Expires: 9/1/2026
Department: dropr
Vendor:
Lot Number:
Balance ID:

Type: Primary
BY: Jillian L Bostwick
Status: New

Comments: Used to make 2nd Source Standard for AK103 method.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 30 Motor Oil	14232		mL	9/1/26

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A 30W-Motor oil

1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211012J
 Standard Name: OTP/COD SURR 2000 ug/mL
 Date Prepared: 10/12/2021
 Date Expires: 9/30/2024
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID: BAL-DRO
 Comments: OTP/COD SURR 2000 ug/mL

Type: Secondary
 BY: Ann Nebel
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone EA662	14050	100	mL	1/7/2

Final Volume: 100 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO201014C 1-Chlorooctadecane	ug/mL	0.2002 g
DRO201014B O-Terphenyl	ug/mL	0.2009 g

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A 1-Chlorooctadecane	3386-33-2		2000
A O-Terphenyl	84-15-1		2000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO201014B
Standard Name: O-Terphenyl
Date Prepared: 10/14/2020
Date Expires: 9/30/2024
Department: dropr
Vendor: Chemservice
Lot Number: 10029300
Balance ID:
Comments: ID#: 6271

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	13191	500	mg	9/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A O-Terphenyl

84-15-1

1

Am

CHEM SERVICE INC.

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER	N-12693-500MG
LOT NUMBER	10029300
DATE CERTIFIED	09/23/19
EXPIRATION DATE	09/30/24
CAS NUMBER	84-15-1
MOLECULAR FORMULA	C18H14
MOLECULAR WEIGHT	230.32
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 13191
 Opened: _____
 o-Terphenyl
Expires: 9/30/2024
 Rec'd: 10/14/2020
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

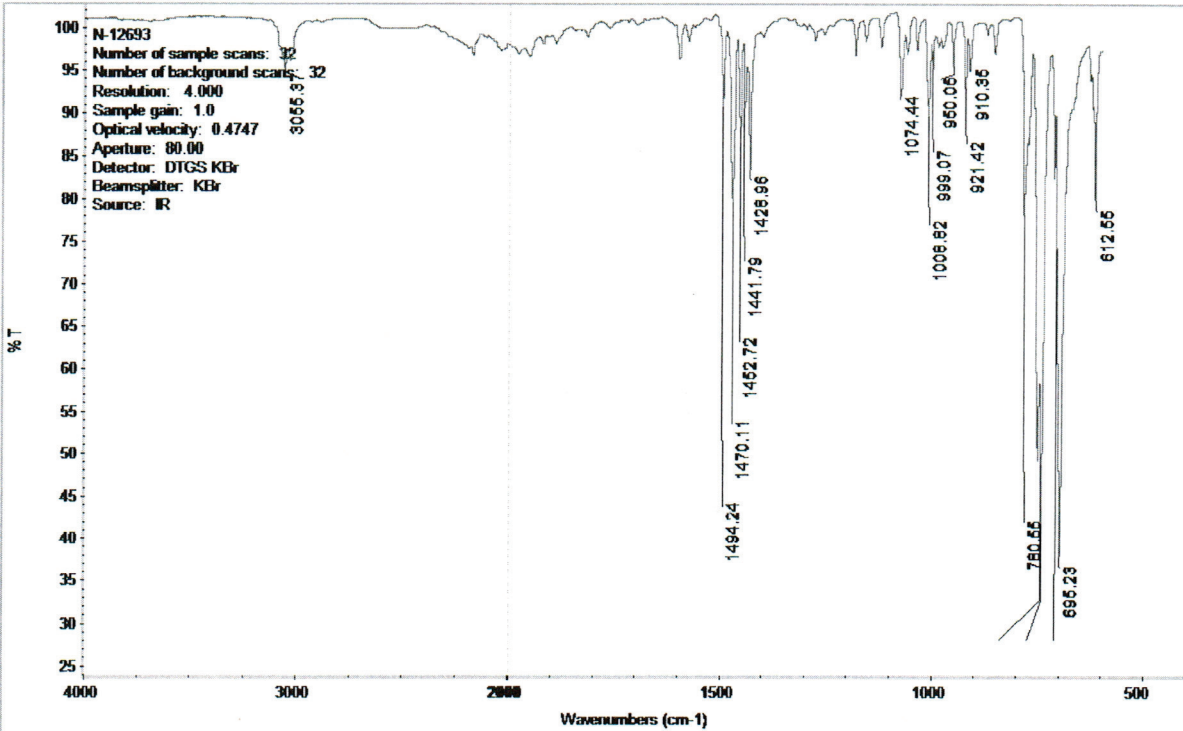
COA Form
Revision 3 (3/2015)



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 10029300
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 10029300
Expiration Date: 09/30/24
Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

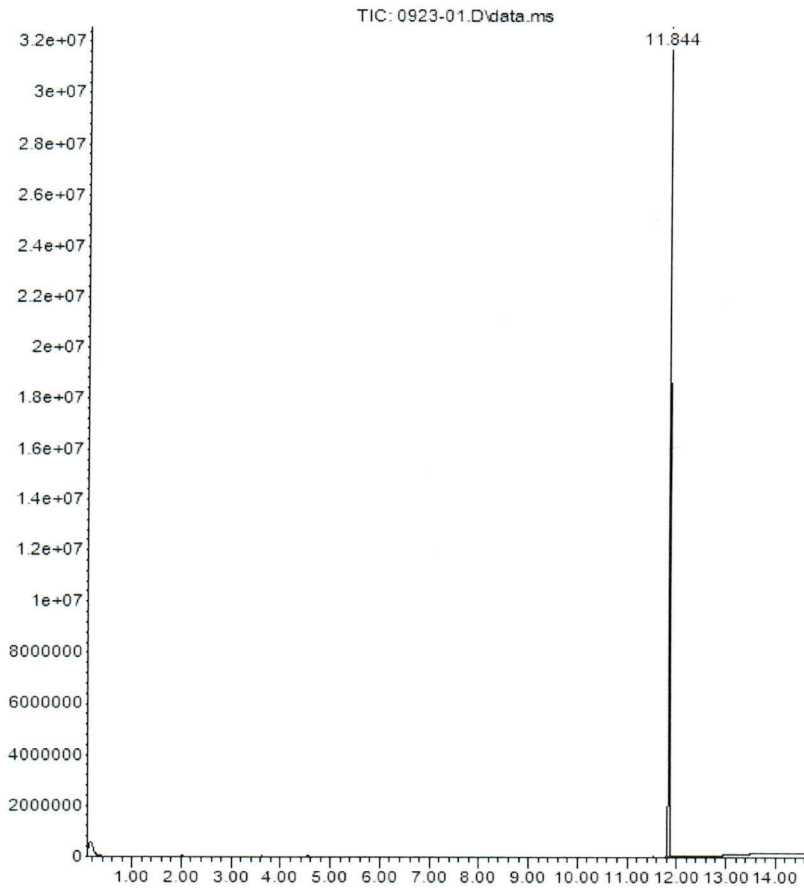
ERIN.M Mon Sep 23 10:55:51 2019

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 10029300
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

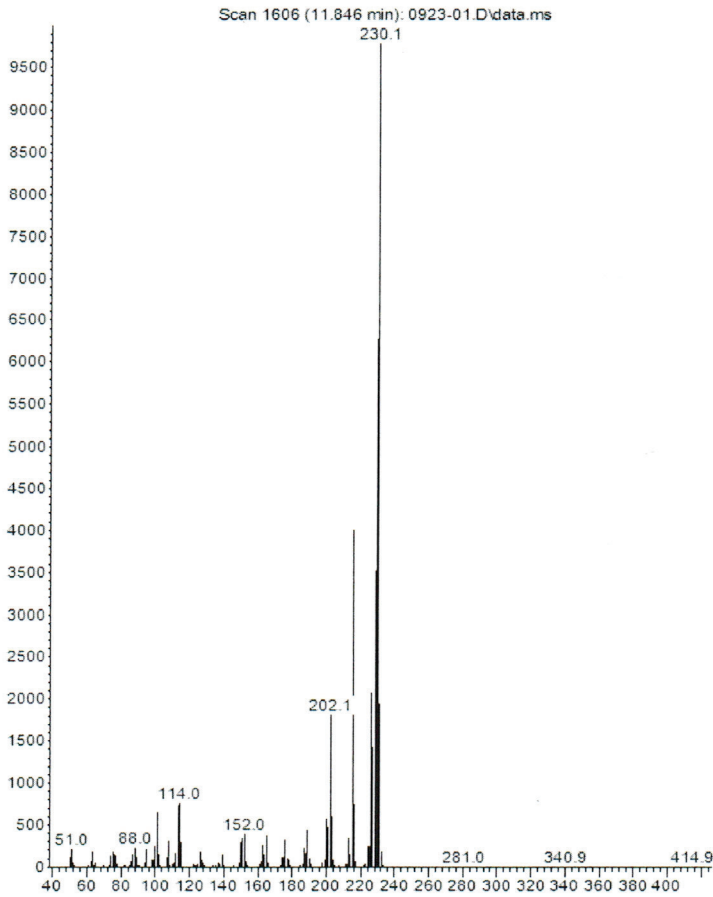


CERTIFICATE OF ANALYSIS

Analysis Method:

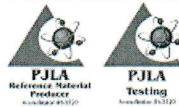
Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 10029300
Expiration Date: 09/30/24

Abundance



m/z-->

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	10029300
Expiration Date:	09/30/24

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



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info@chemservice.com • www.chemservice.com

Gas

Data file: C:\CHEM3\

Sample name: N-12893

Instrument: GC 2

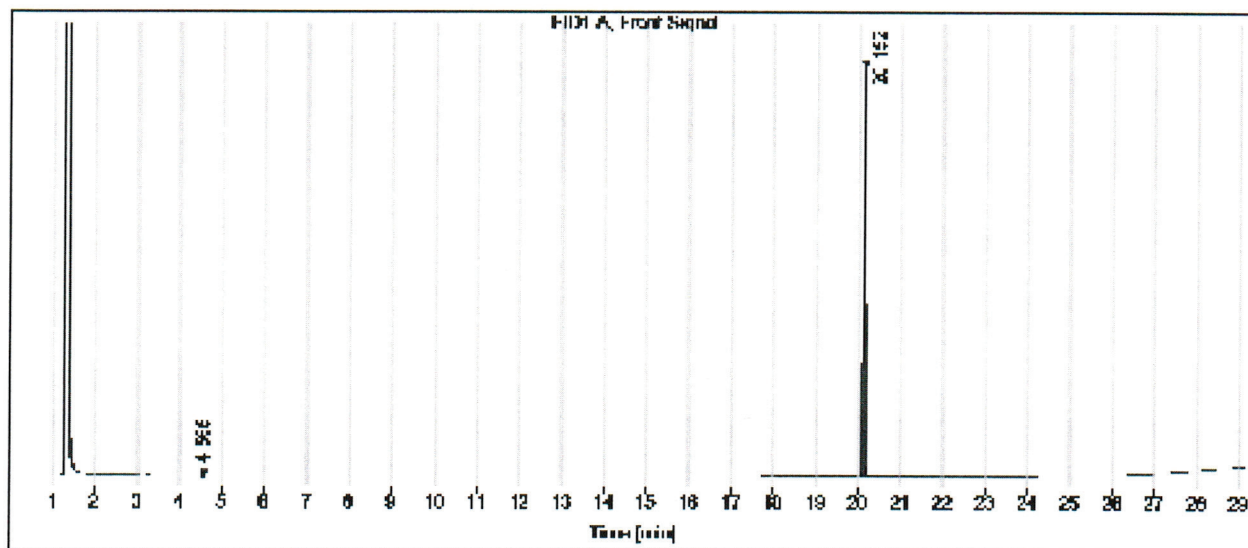
Injection date: 9/23/2019 9:56:34 AM

Acq. method: SCREEN.M

Column name: HP-5

CERTIFICATE OF ANALYSIS

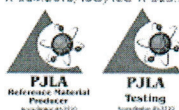
Sample type: Sample
 Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



Energy Laboratories Inc

Standard LOG

Standard ID: DRO211115A
Standard Name: Triacotane SURR 1000 ug/mL
Date Prepared: 11/15/2021
Date Expires: 4/6/2026
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: 2X dilution of Triacotane SURR 2000 ug/mL

Type: Secondary
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC480	14470	2	mL	9/16/

Final Volume: 4 mL

Stock Source
DRO211006A Triacotane SURR 2000 ug/mL

Base Units
ug/mL

Amount Added
2 mL

Analtes
A Triacotane-d62

CAS

Conc: **ug/mL**
1000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211006A
 Standard Name: Triacontane SURR 2000 ug/mL
 Date Prepared: 10/6/2021
 Date Expires: 4/6/2026
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID: BAL-DRO
 Comments: Triacontane SURR 2000 ug/mL

Type: Secondary
 BY: Jillian L Bostwick
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source
 DRO210406A Triacontane-d62 Surr For AK103 RRO

Base Units
 ug/mL

Amount Added
 0.1001 g

Analtes
 A Triacontane-d62

CAS

Conc: **ug/mL**
 2000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210406A
Standard Name: Triacontane-d62 Surr For AK103 RRO
Date Prepared: 4/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor: Sigma-Aldrich
Lot Number: MBBC4347
Balance ID:
Comments: Alaska surr [for AK103 RRO]

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Triacontane-d62-98 atom % D	13736		mL	4/6/2026

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

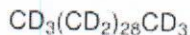
A Triacontane-d62

3050 Spruce Street, Saint Louis, MO 63103, USA
 Website: www.sigmaaldrich.com
 Email USA: techserv@sial.com
 Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
 Triacontane-d62 - 98 atom % D

Product Number: 451789
 Batch Number: MBBC4347
 Brand: ALDRICH
 CAS Number: 93952-07-9
 MDL Number: MFCD00209794
 Formula: C30D62
 Formula Weight: 485.20 g/mol
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: _____

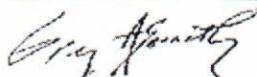
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C



Greg Abernathy, Supervisor
 Quality Control
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.