

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

03-Nov-21

Run ID GCFID-HP5-B\_211102A

<b>Run Start Date:</b> 11/2/2021
<b>Analyst:</b> Ann Nebel
<b>Ical:</b>
<b>Column ID:</b>
<b>Comments:</b> 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						
<b>Analyte</b>	<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
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						
<b>Analyte</b>	<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
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						
<b>Analyte</b>	<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
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

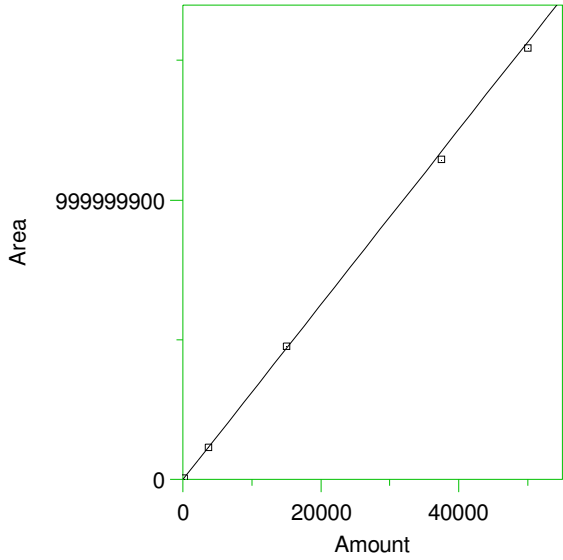
No default component

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

No calibration update report

All levels are normal data points.

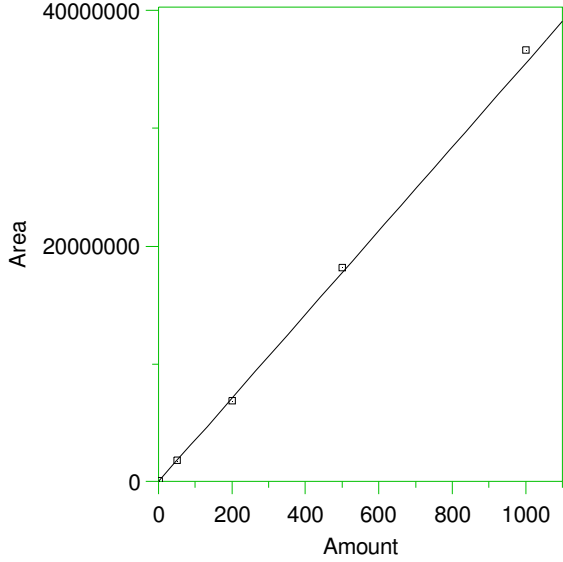
1 DRO Range Start



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

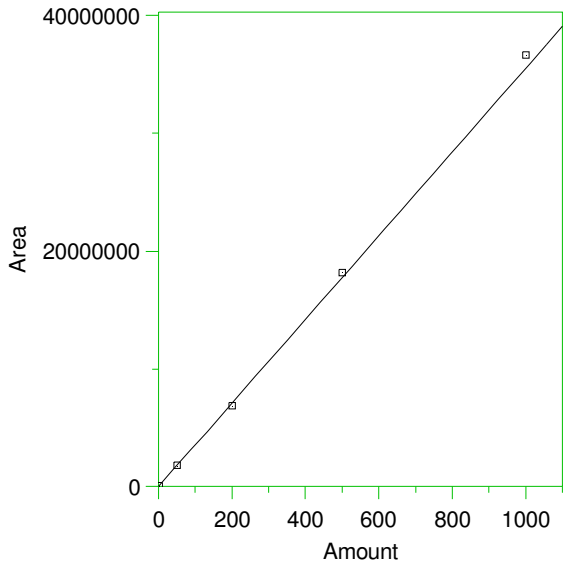
2 \*o-Terphenyl



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



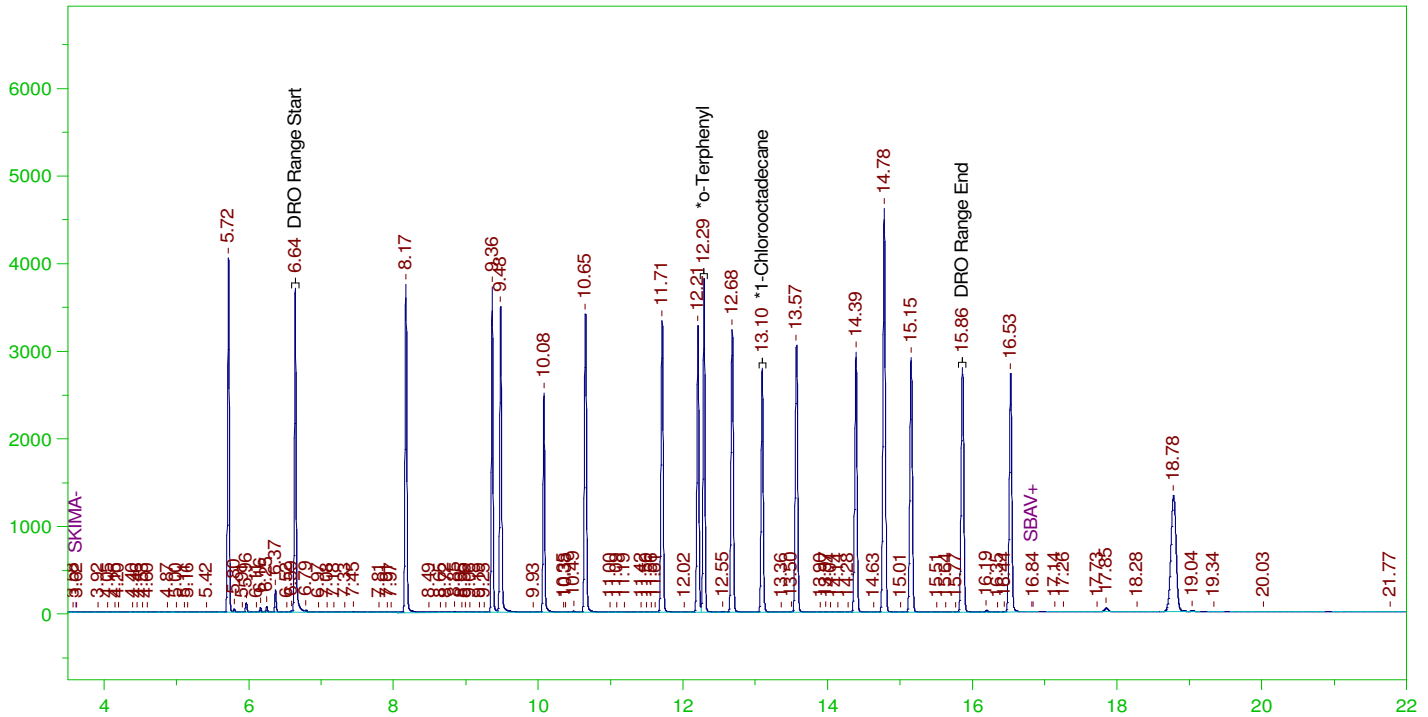
Expected retention time: 13.1 minutes  
 Search window: 0.05 minutes  
 No retention time reference component  
 Group number: 0  
 High alarm limit: 0  
 Low alarm limit: 0  
 Component constant: 0  
 Single peak quantification by area  
 Y = 35509.21 X + 0  
 Average CF fit with equal weighting, forced 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

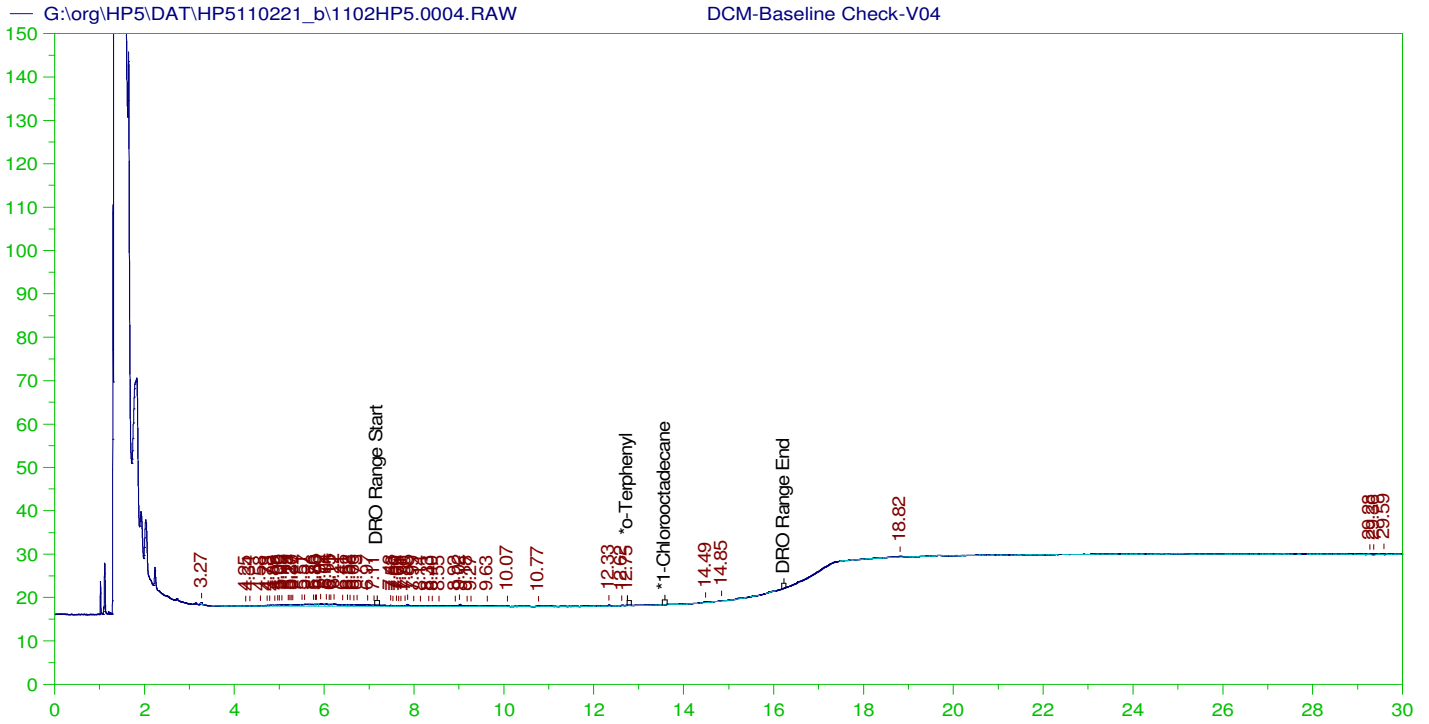
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.292	200.	201.539	100.77
*1-Chlorooctadecane	13.095	200.	163.573	81.79

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

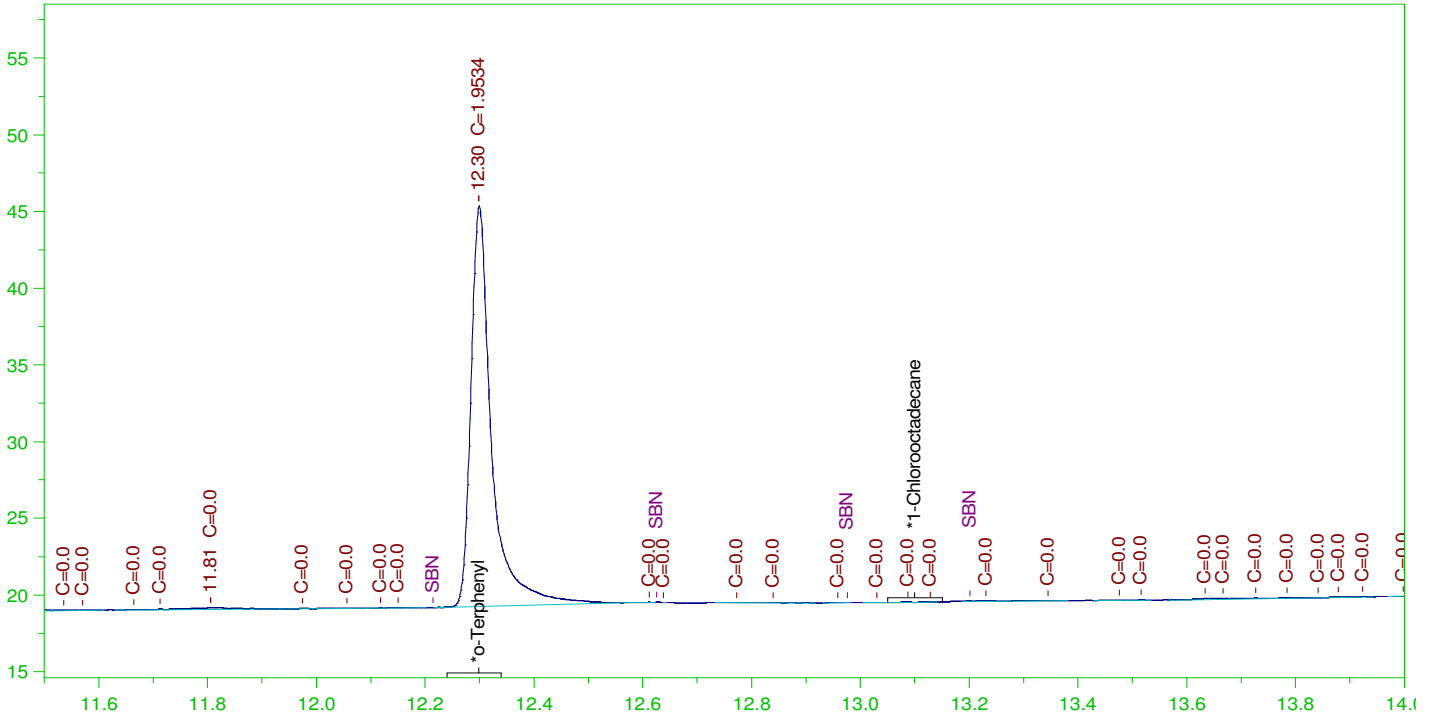
Mean RF for TEH: 29457.33  
 Rt range for Diesel Range Organics: 7.125 to 16.28

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

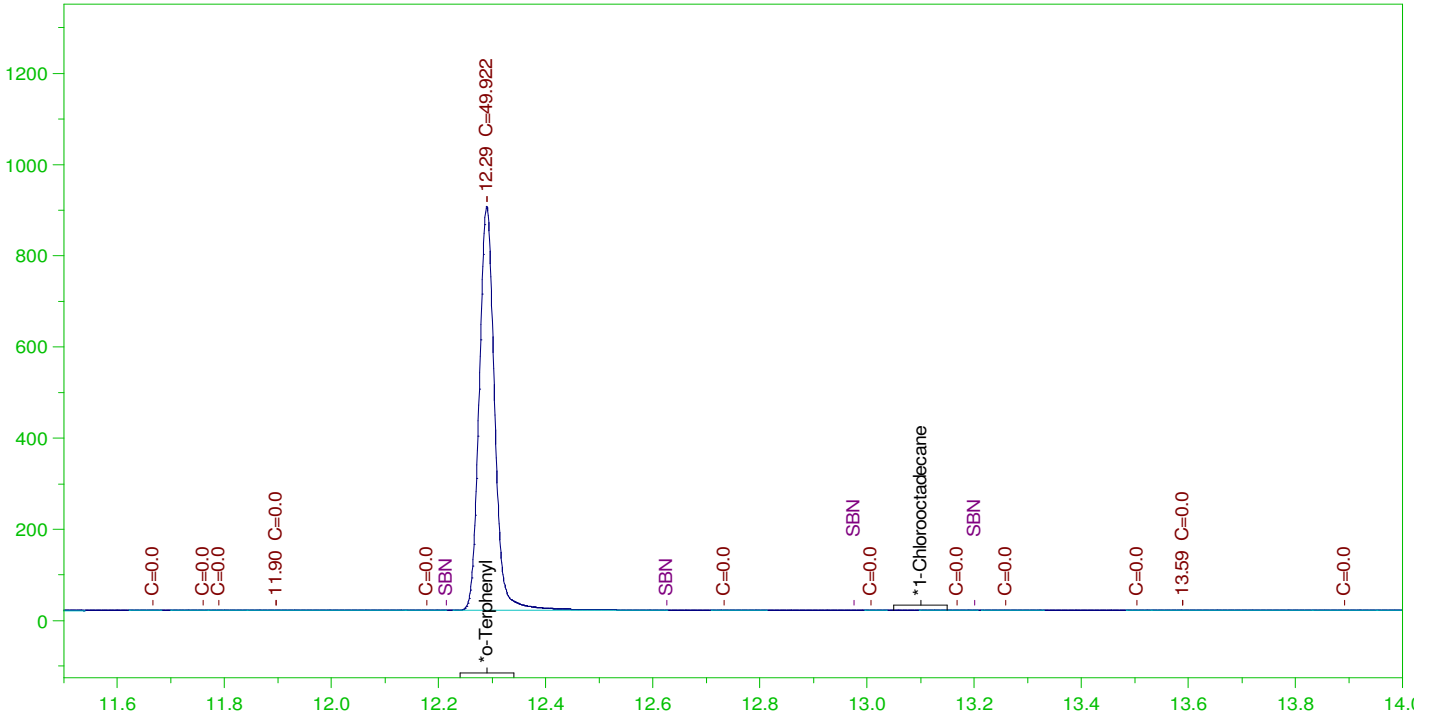
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221\_b\1102HP5.0005.RAW

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

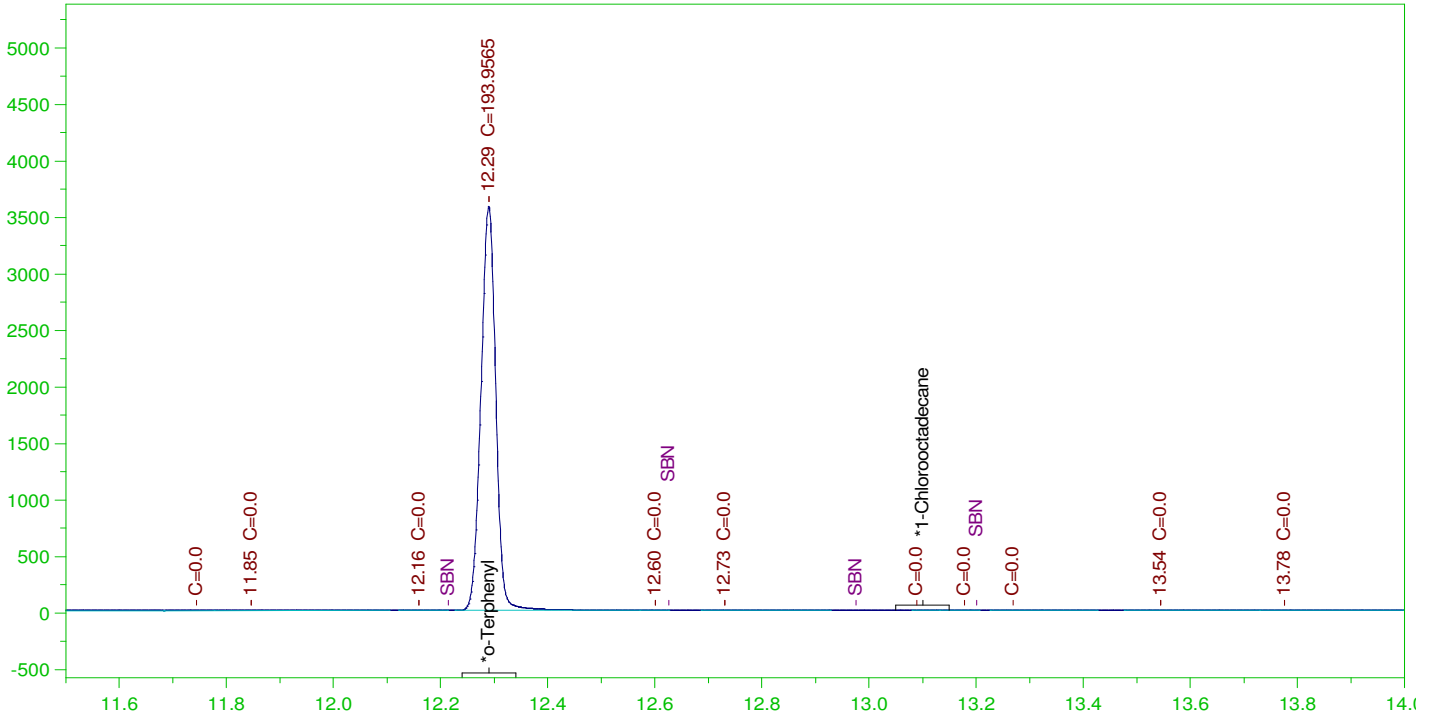
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221\_b\1102HP5.0006.RAW

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

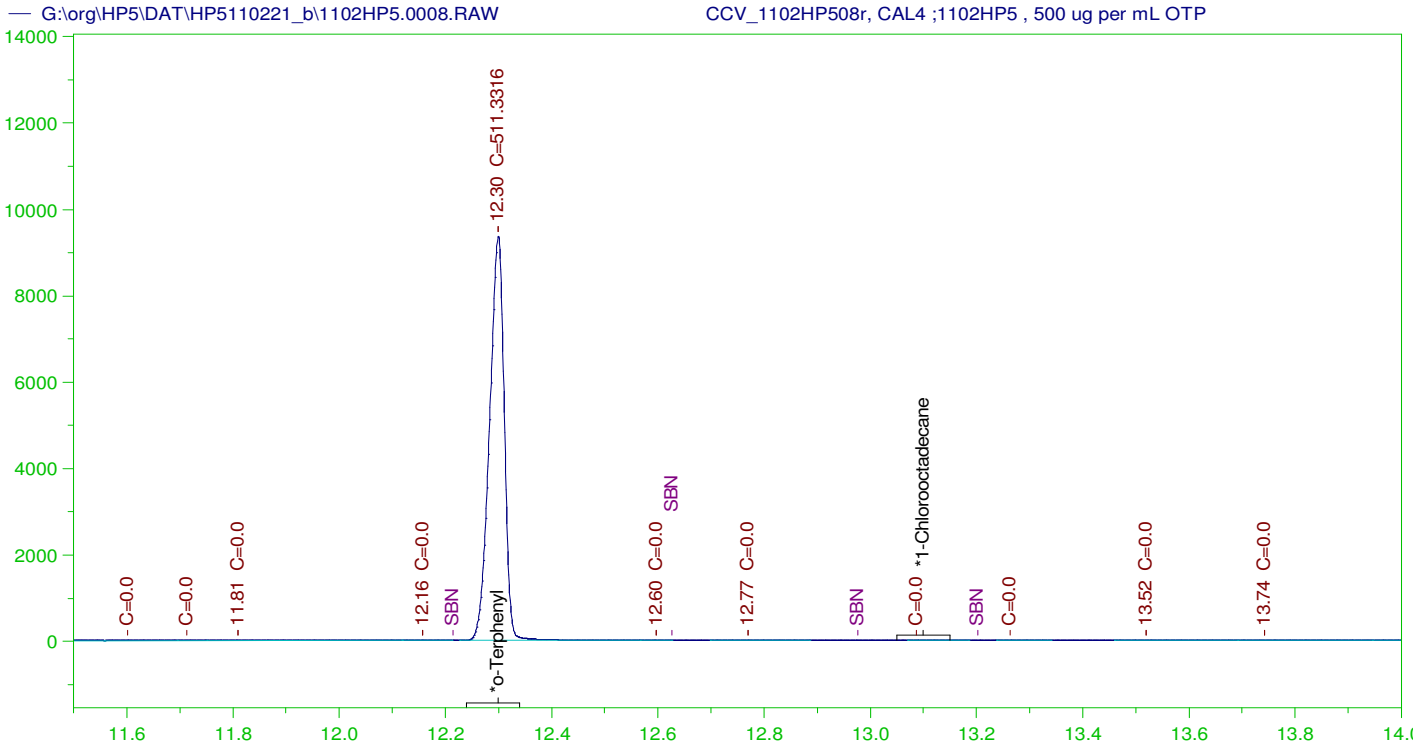
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.29	200.	193.957	96.98
*1-Chlorooctadecane	15.779	200.	.	-

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

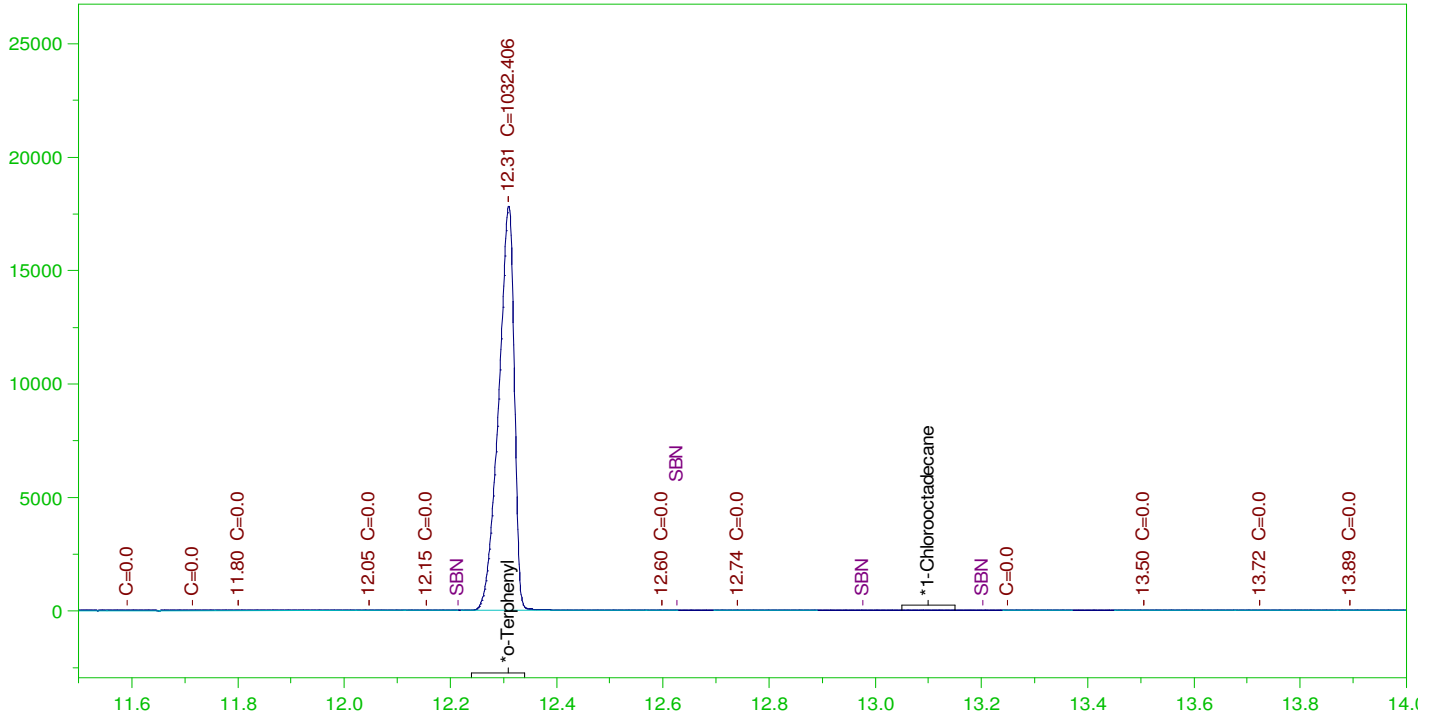
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221\_b\1102HP5.0008.RAW

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

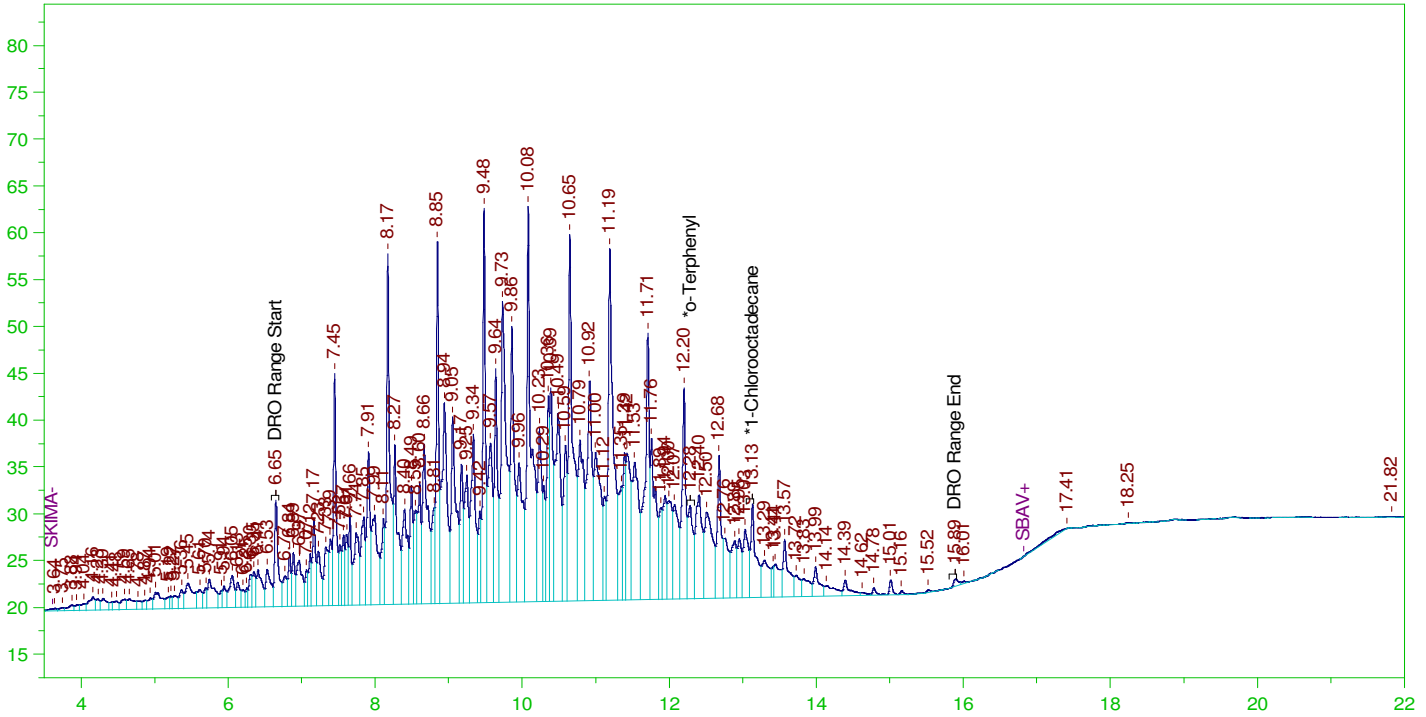
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221\_b\1102HP5.0009.RAW

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

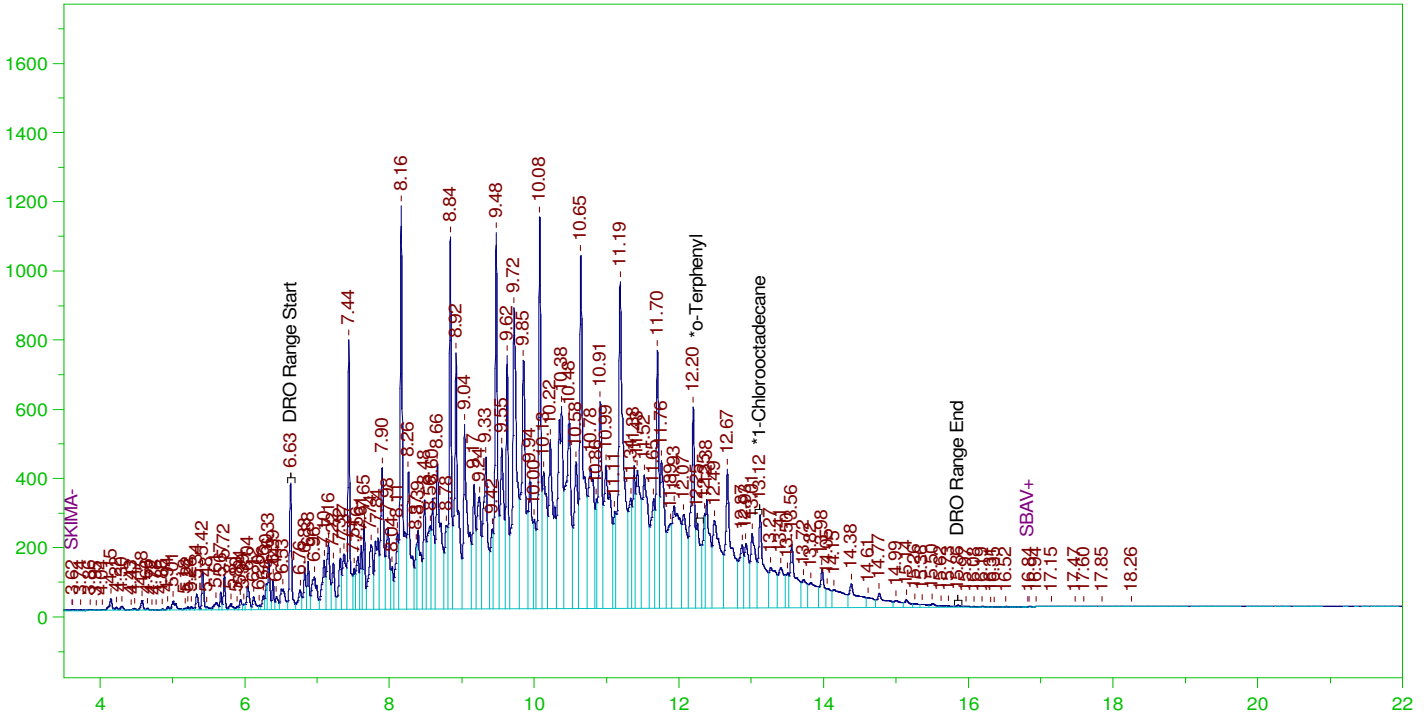
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	155.19	1.03	85-115

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

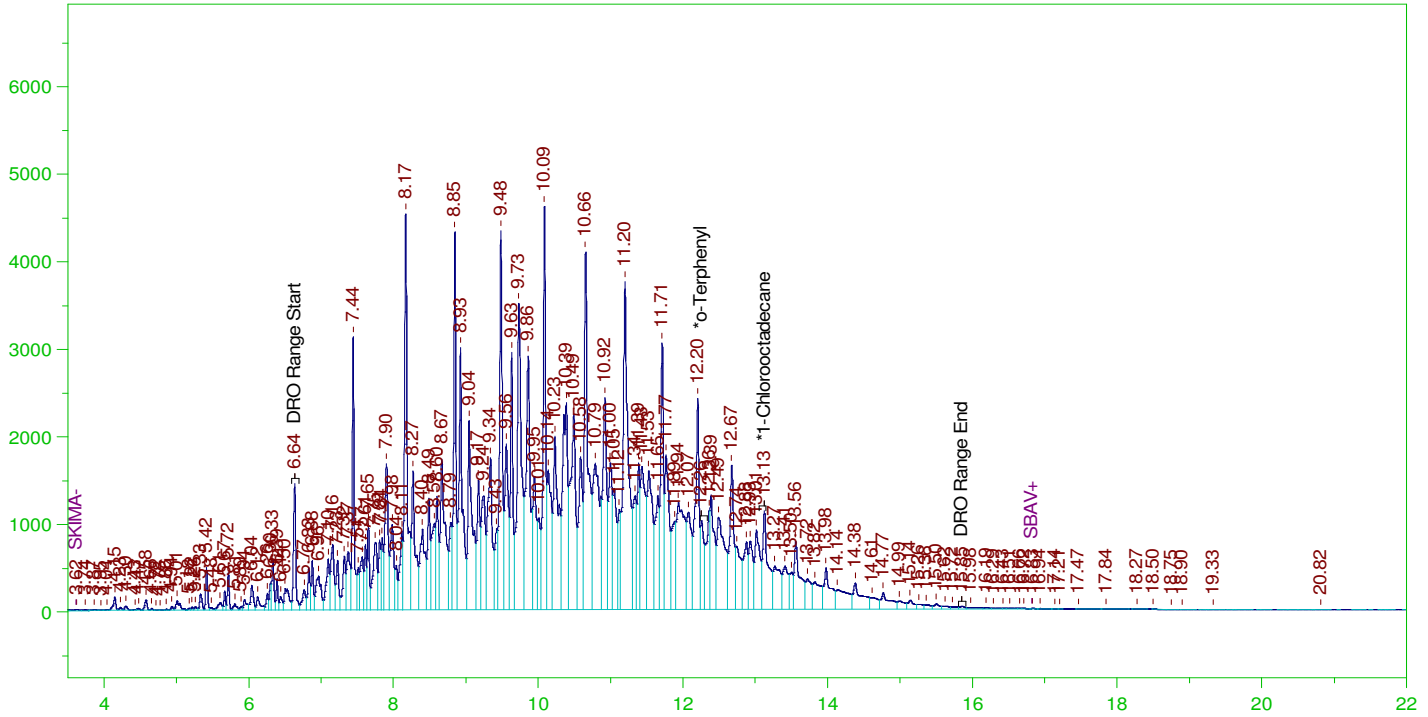
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221\_b\1102HP5.0011.RAW

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

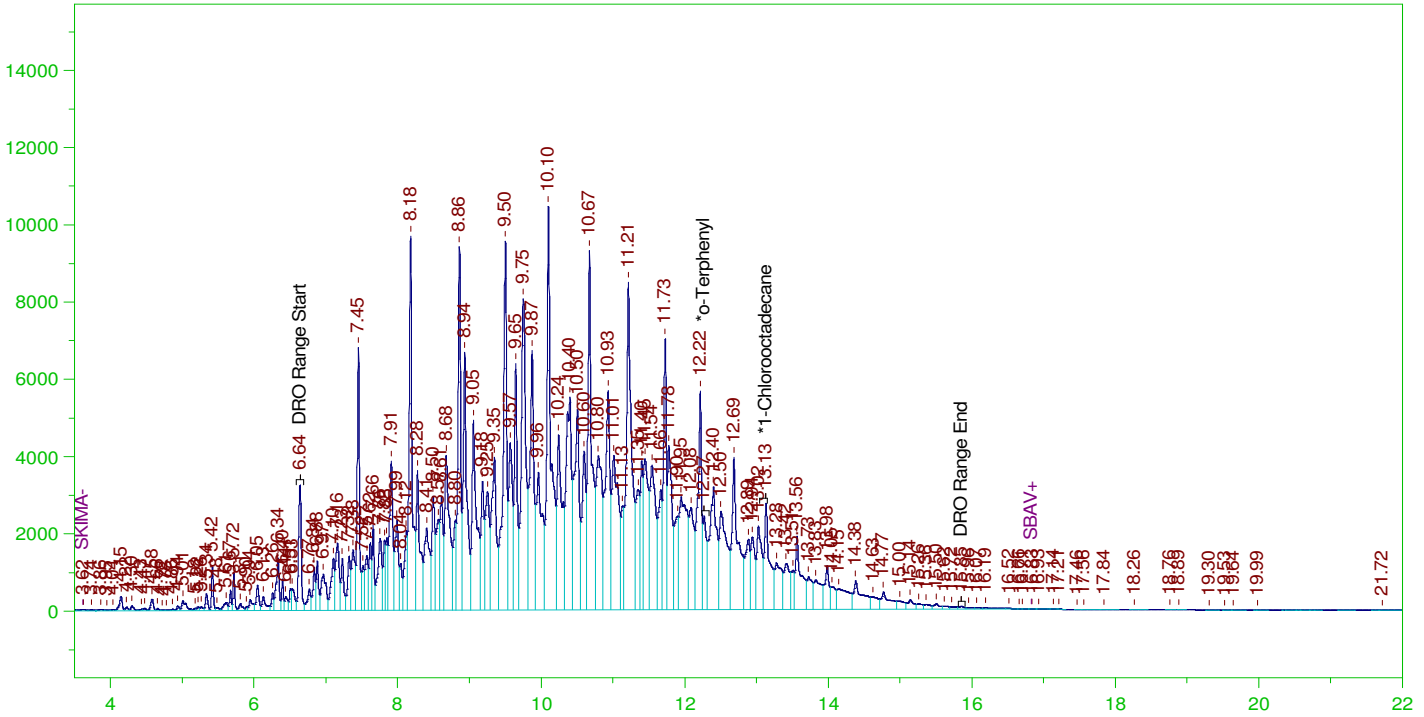
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221\_b\1102HP5.0012.RAW

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

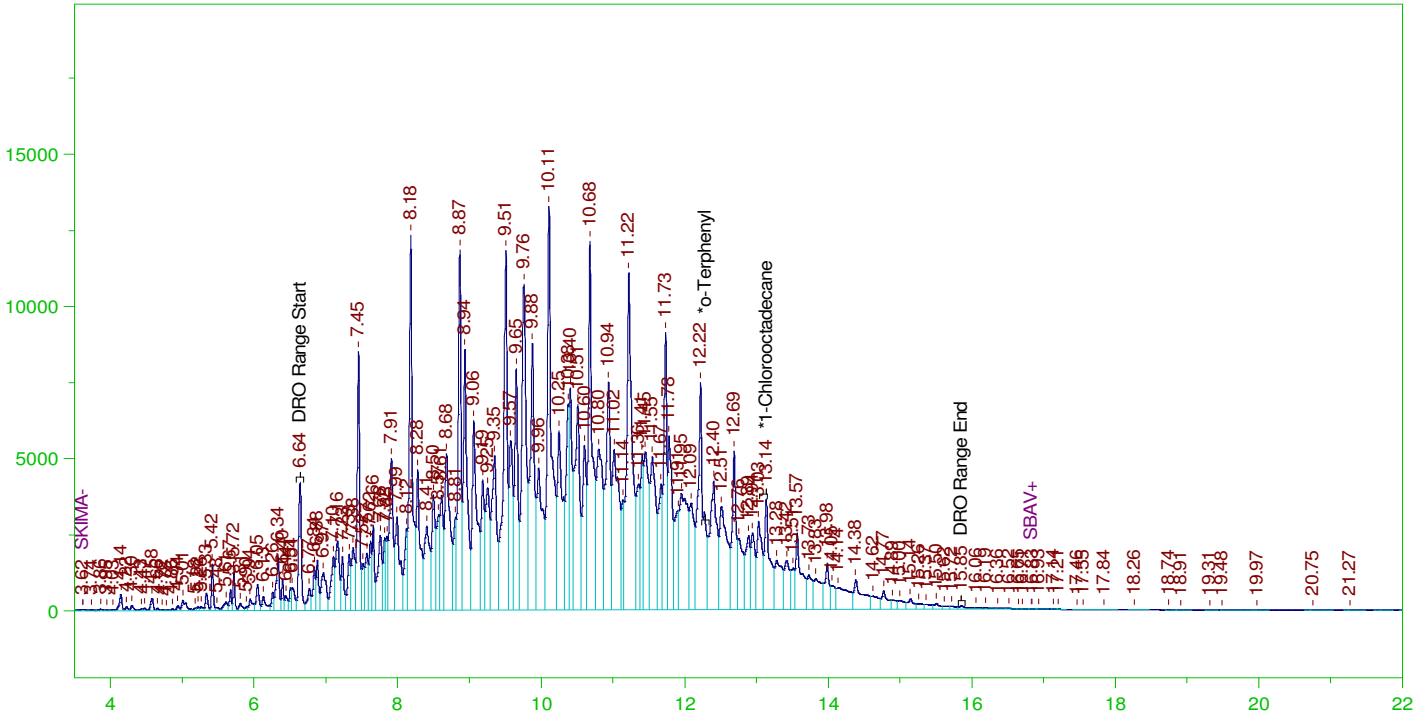
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110221\_b\1102HP5.0013.RAW

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

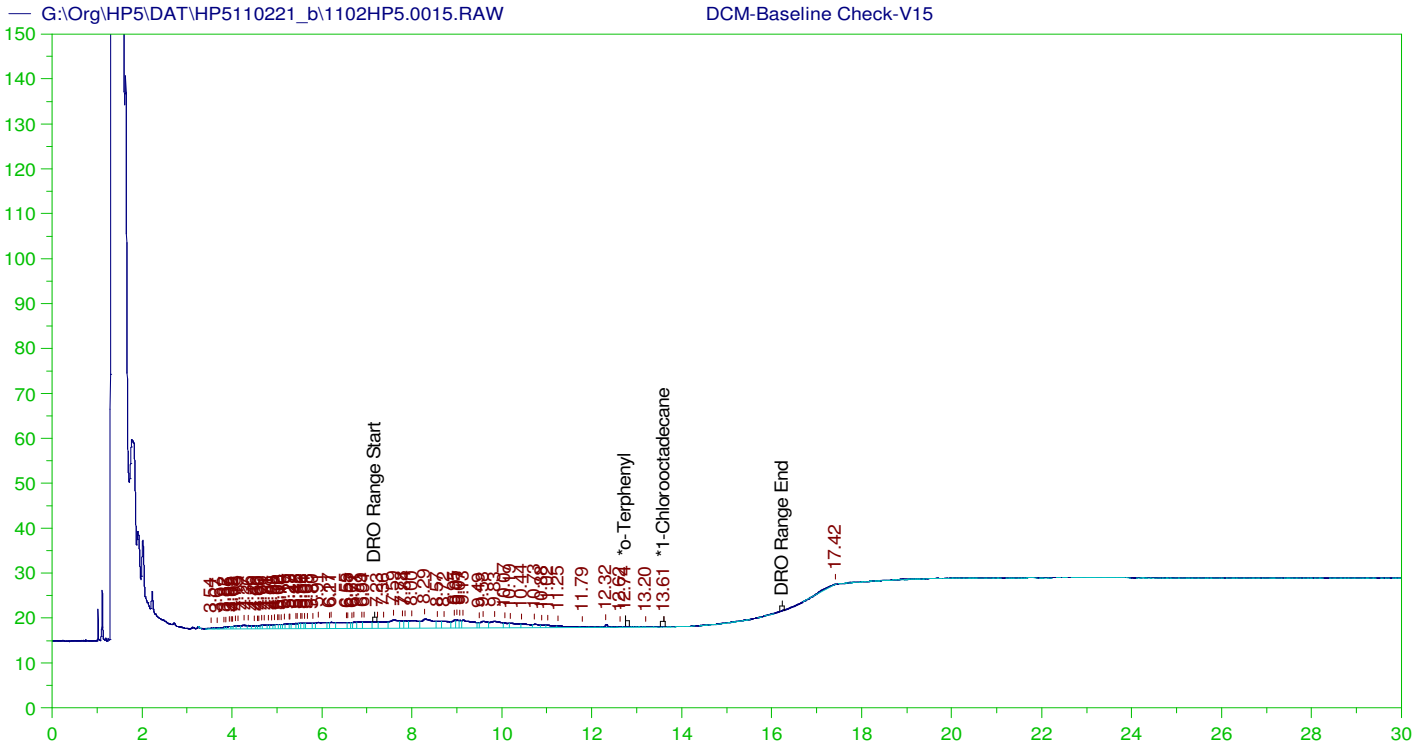
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.921	200.	.	-
*1-Chlorooctadecane	13.135	200.	512.63	256.31

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



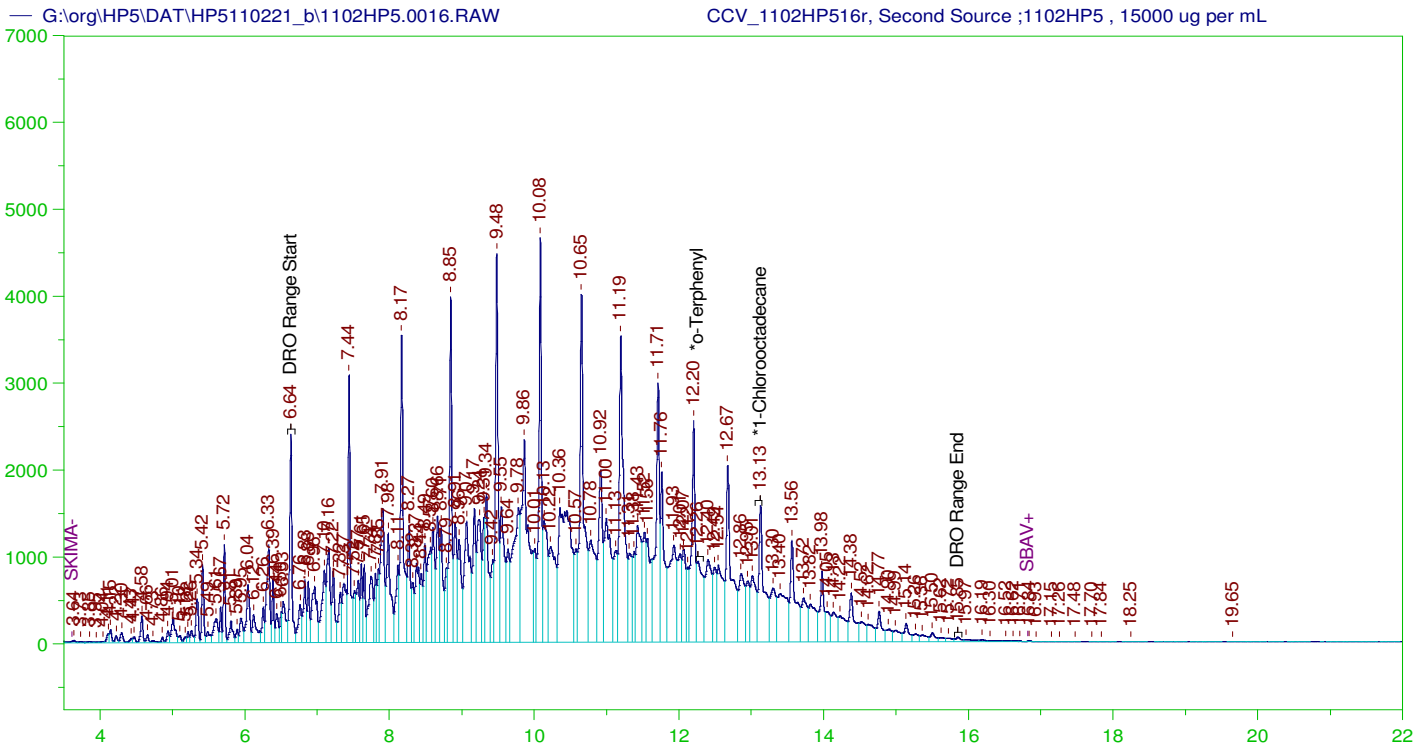
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

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 DRO211011A + 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

<b>Run Start Date:</b> 2/18/2021
<b>Analyst:</b> Ann Nebel
<b>Ical:</b>
<b>Column ID:</b>
<b>Comments:</b> 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						
<b>Analyte</b>	<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
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						
<b>Analyte</b>	<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
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						
<b>Analyte</b>	<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
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

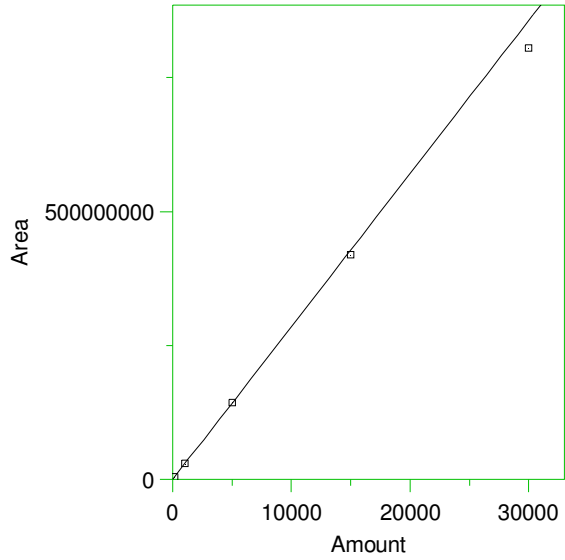
No default component

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

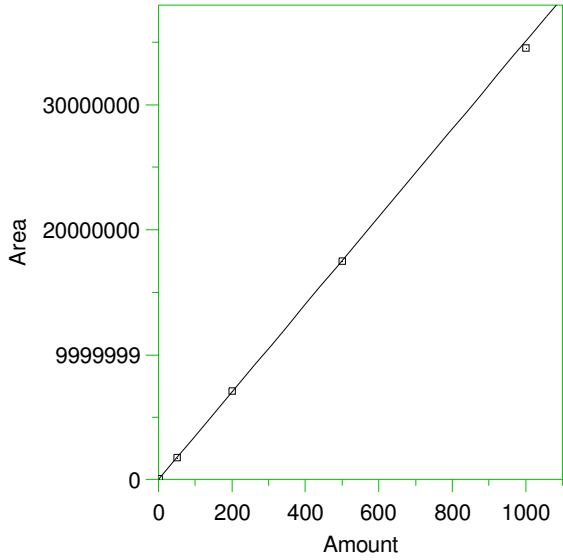
Single peak quantification by area

$Y = 28542.41 X + 0$

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

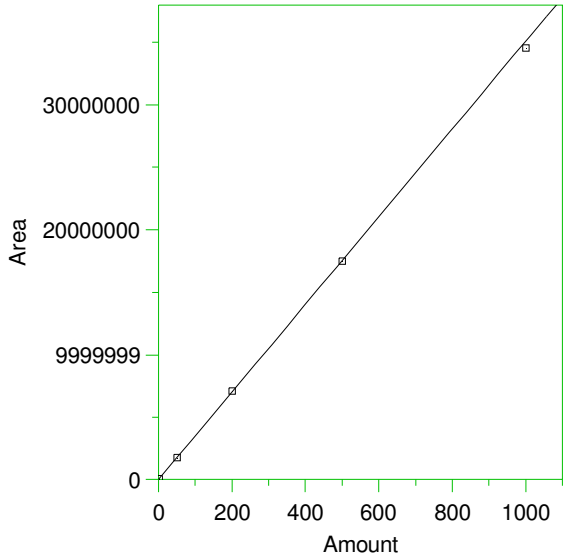
2 \*o-Terphenyl



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%

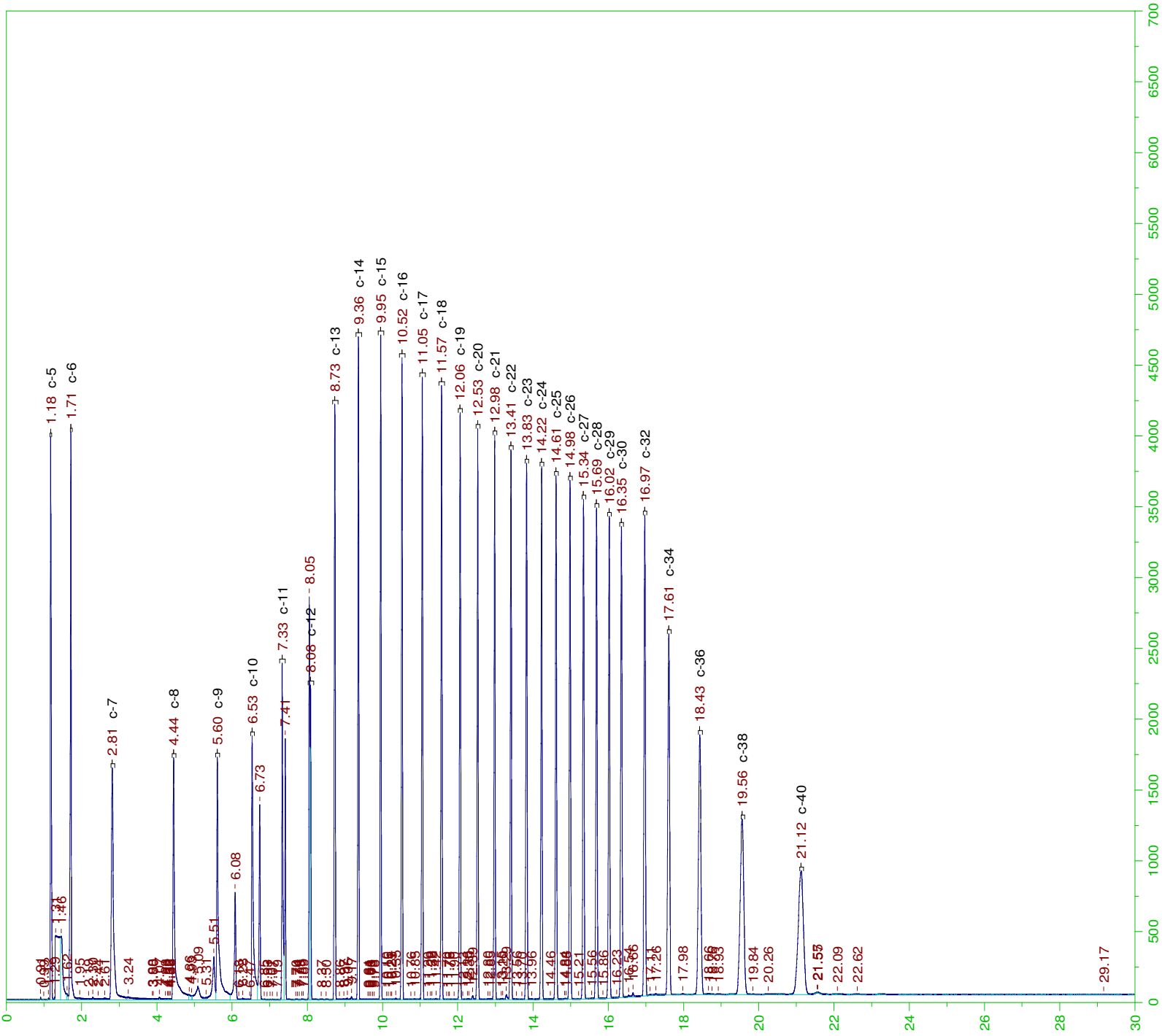
Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	70648.41	35324.2	0.721	G:\Org\HP5\DAT\HP5010821_b\0108HP5.0011.BND	1/11/2021 9:44:43 AM
2	50	1746406	34928.12	-0.408	G:\Org\HP5\DAT\HP5010821_b\0108HP5.0012.BND	1/11/2021 9:44:50 AM
3	200	7110604	35553.02	1.374	G:\Org\HP5\DAT\HP5010821_b\0108HP5.0013.BND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

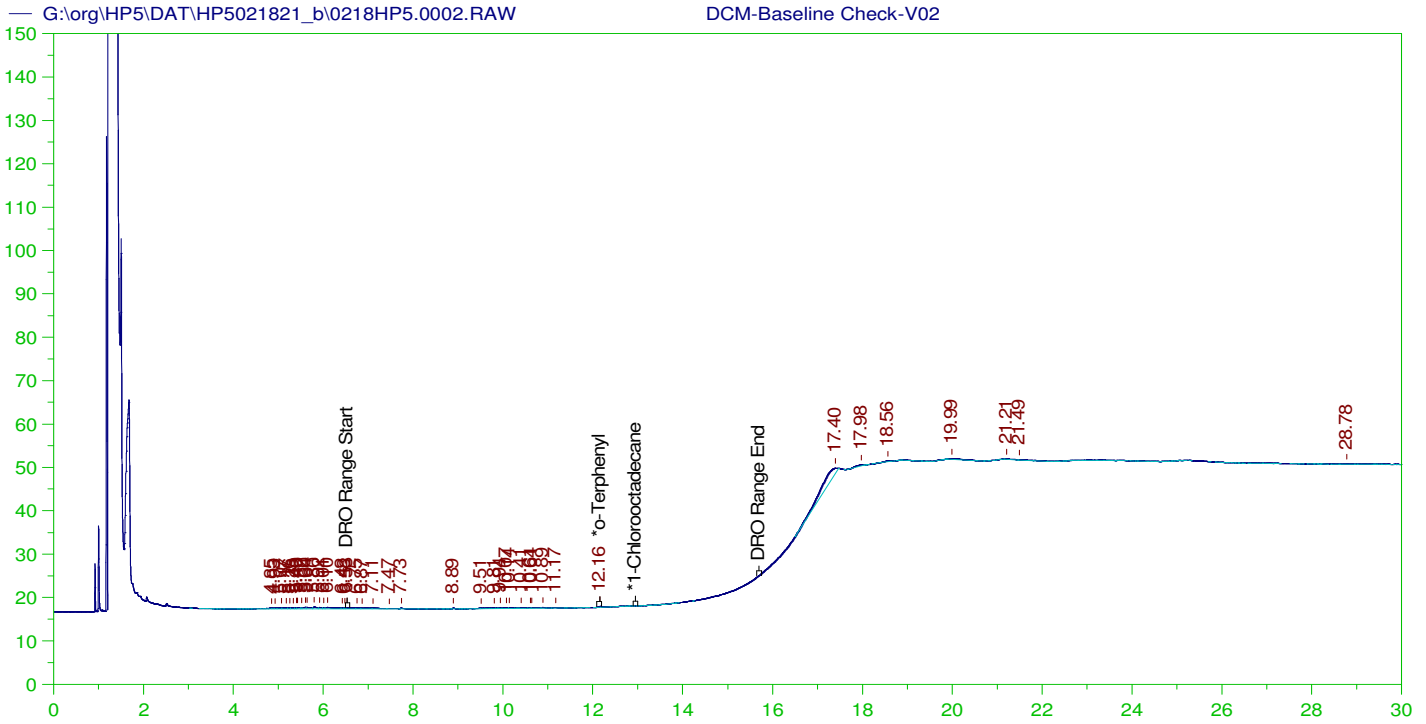
3 \*1-Chlorooctadecane



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

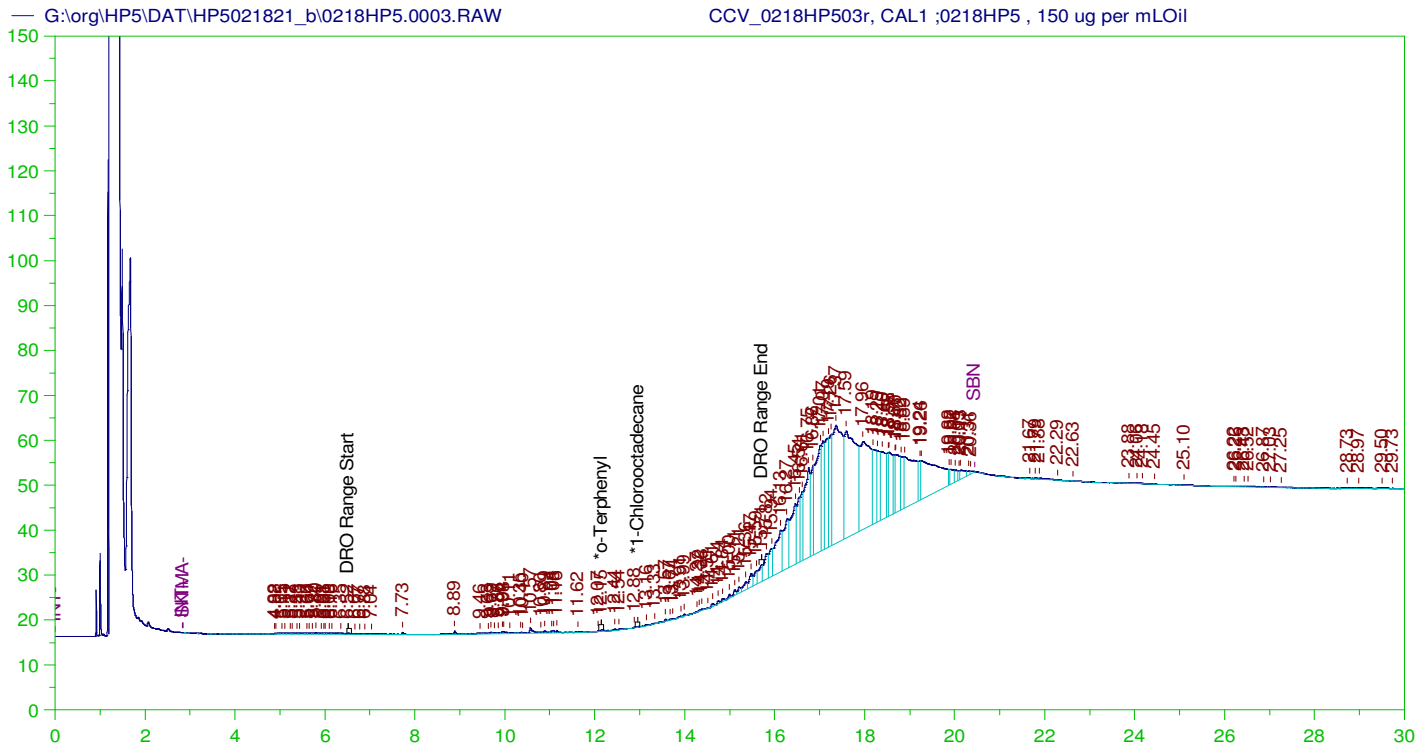
Mean RF for TEH: 29457.33

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

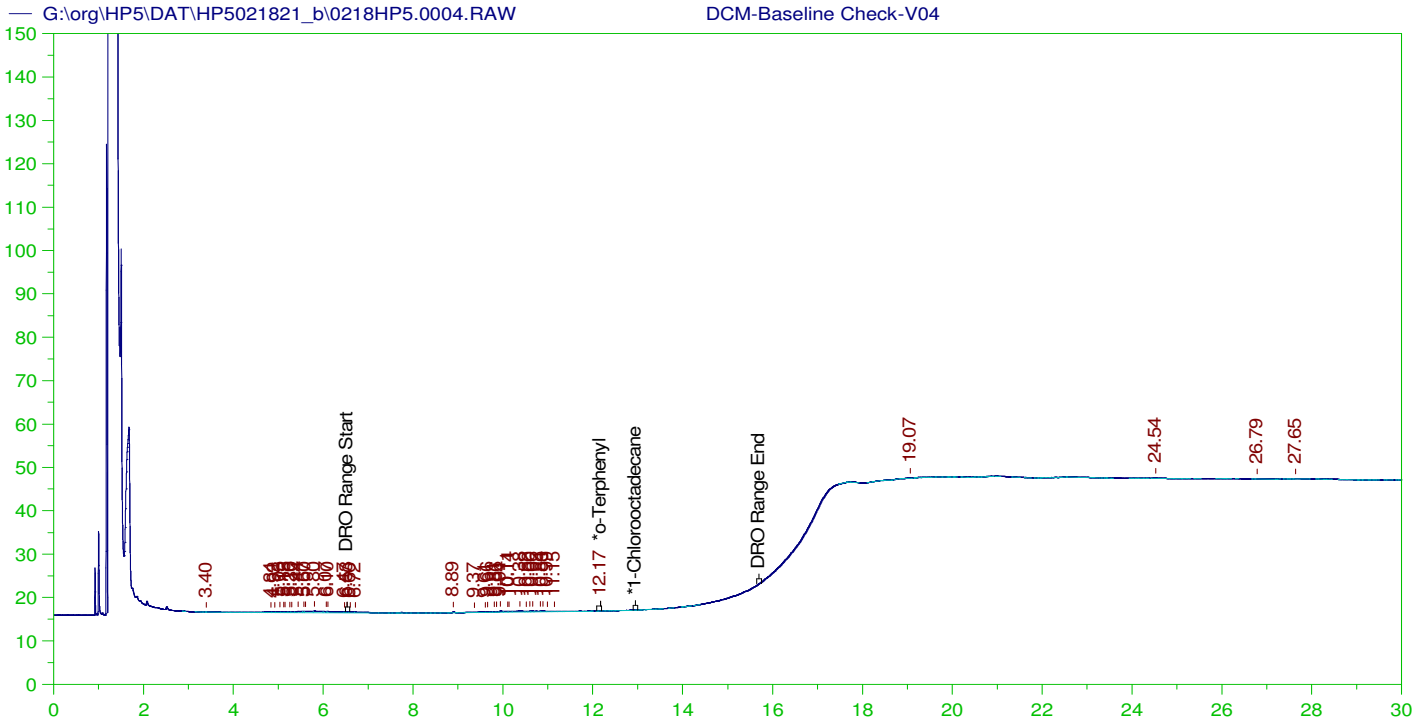
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.146	200.	.02	.01
*1-Chlorooctadecane	29.979	200.	.	.

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**

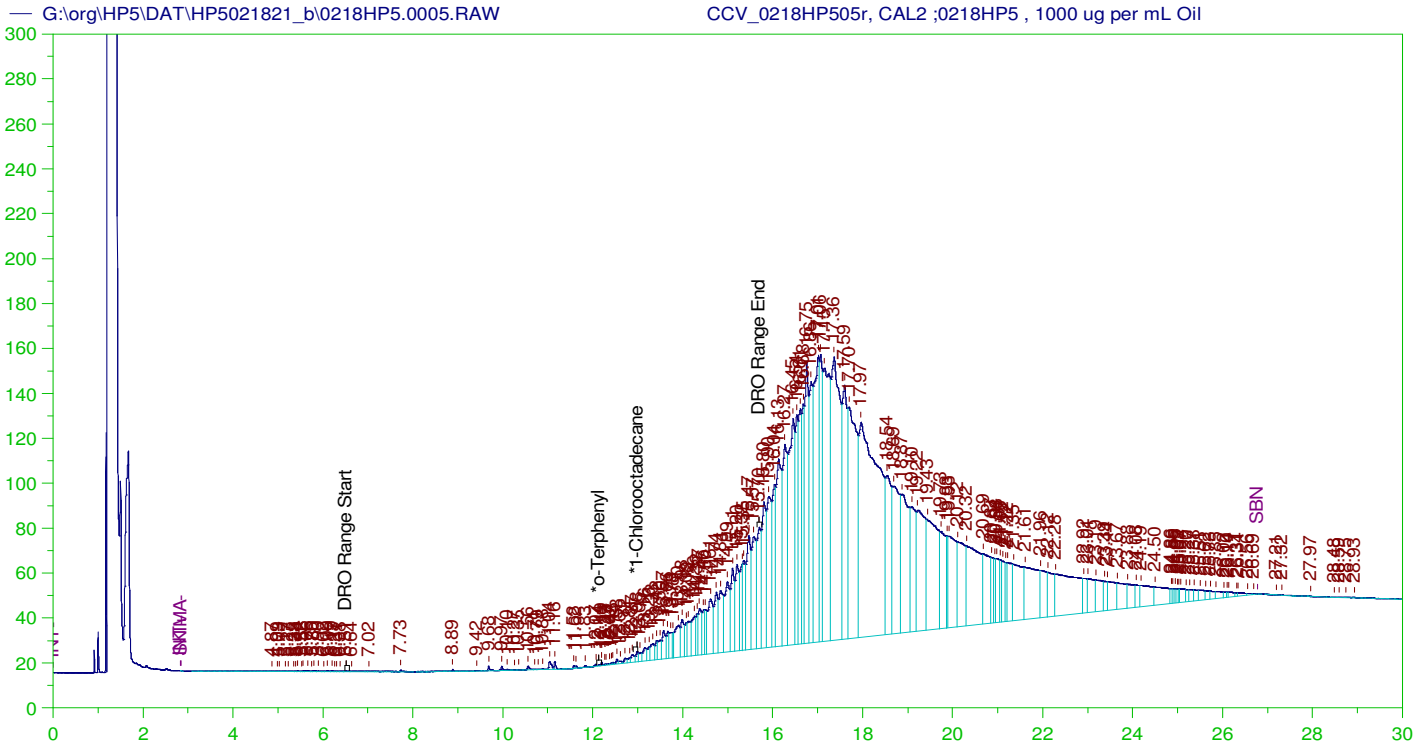
Sample Name: DCM-Baseline Check-V04  
 Raw File: G:\org\HP5\DAT\HP5021821\_b\0218HP5.0004.RAW  
 Date & Time Acquired: 2/18/2021 12:45:36 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HE-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108HE.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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

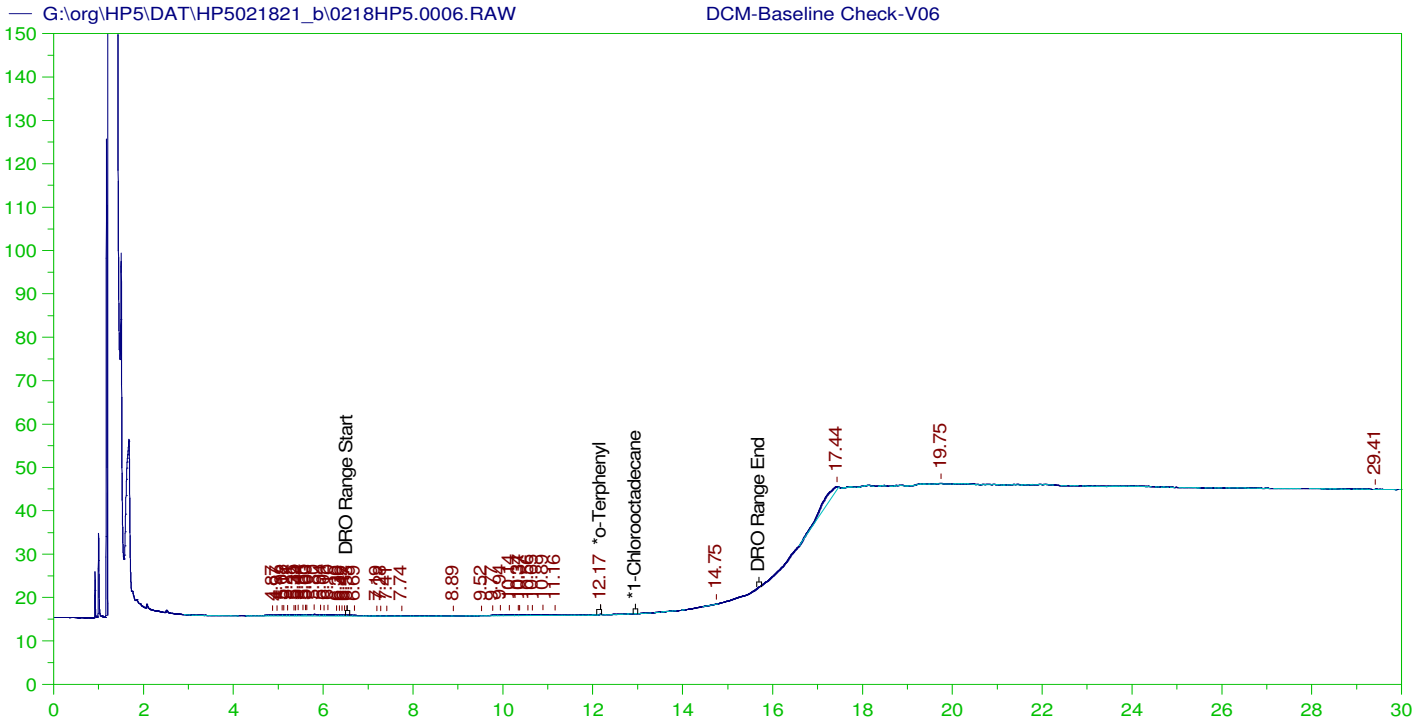
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.136	200.	.034	.02	-
*1-Chlorooctadecane	12.983	200.	.496	.25	-

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**

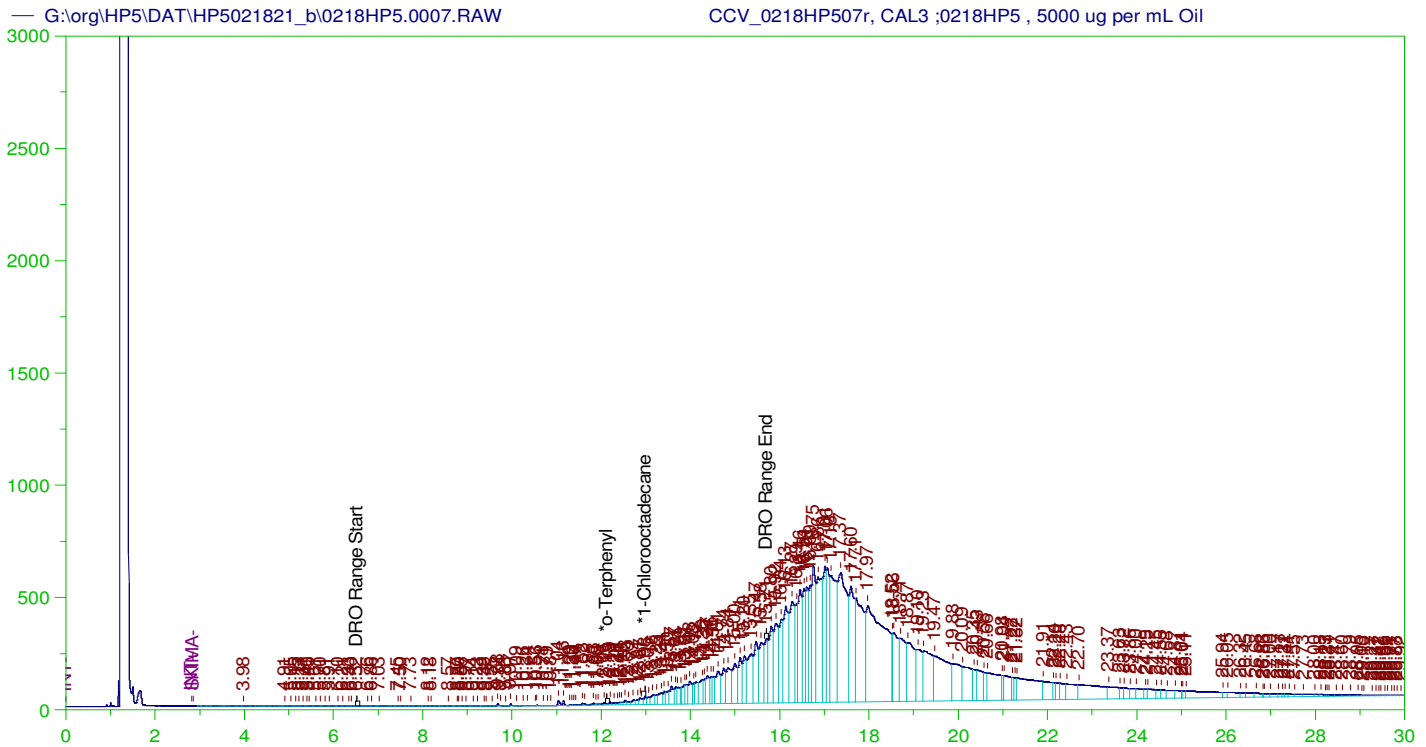
Sample Name: DCM-Baseline Check-V06  
 Raw File: G:\org\HP5\DAT\HP5021821\_b\0218HP5.0006.RAW  
 Date & Time Acquired: 2/18/2021 2:09:12 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HE-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108HE.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33

Rt range for Diesel Range Organics: 6.49 to 15.75

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

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



**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

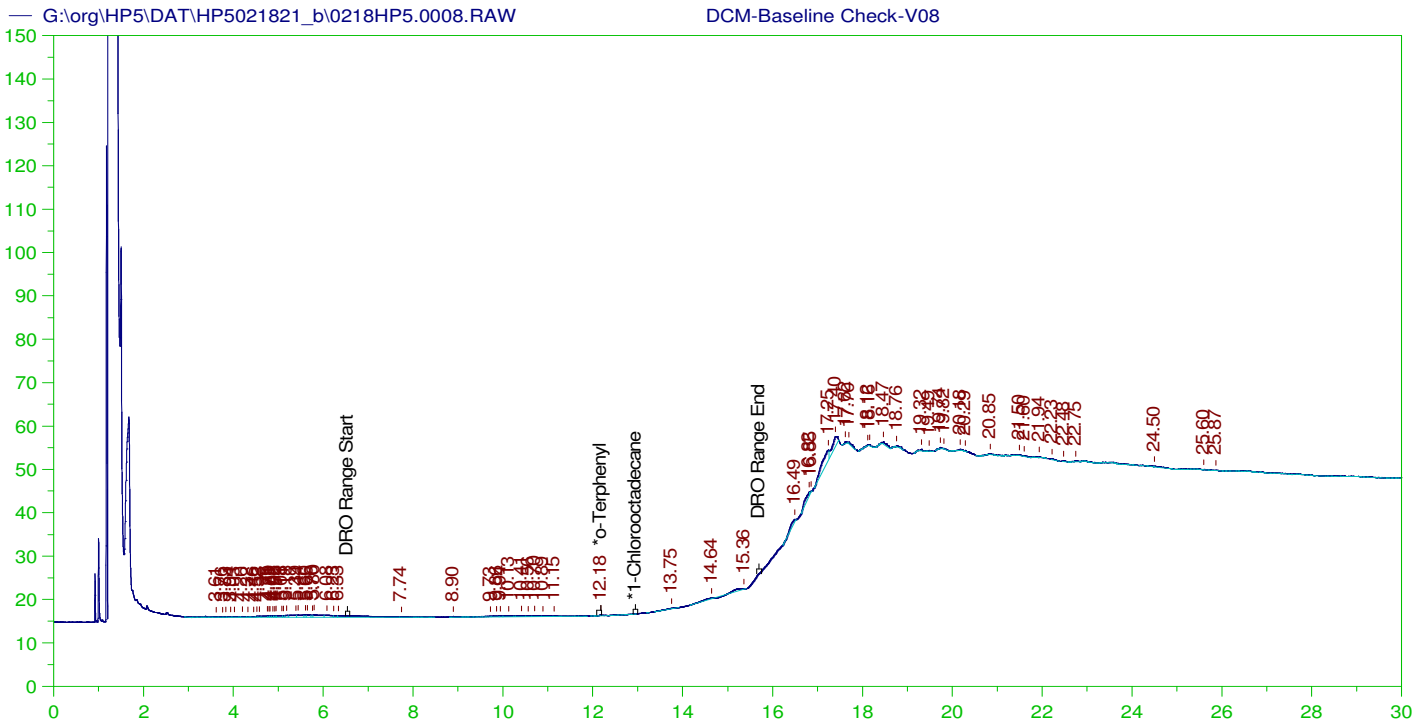
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.129	200.	.538	.27	-
*1-Chlorooctadecane	12.981	200.	4.244	2.12	-

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



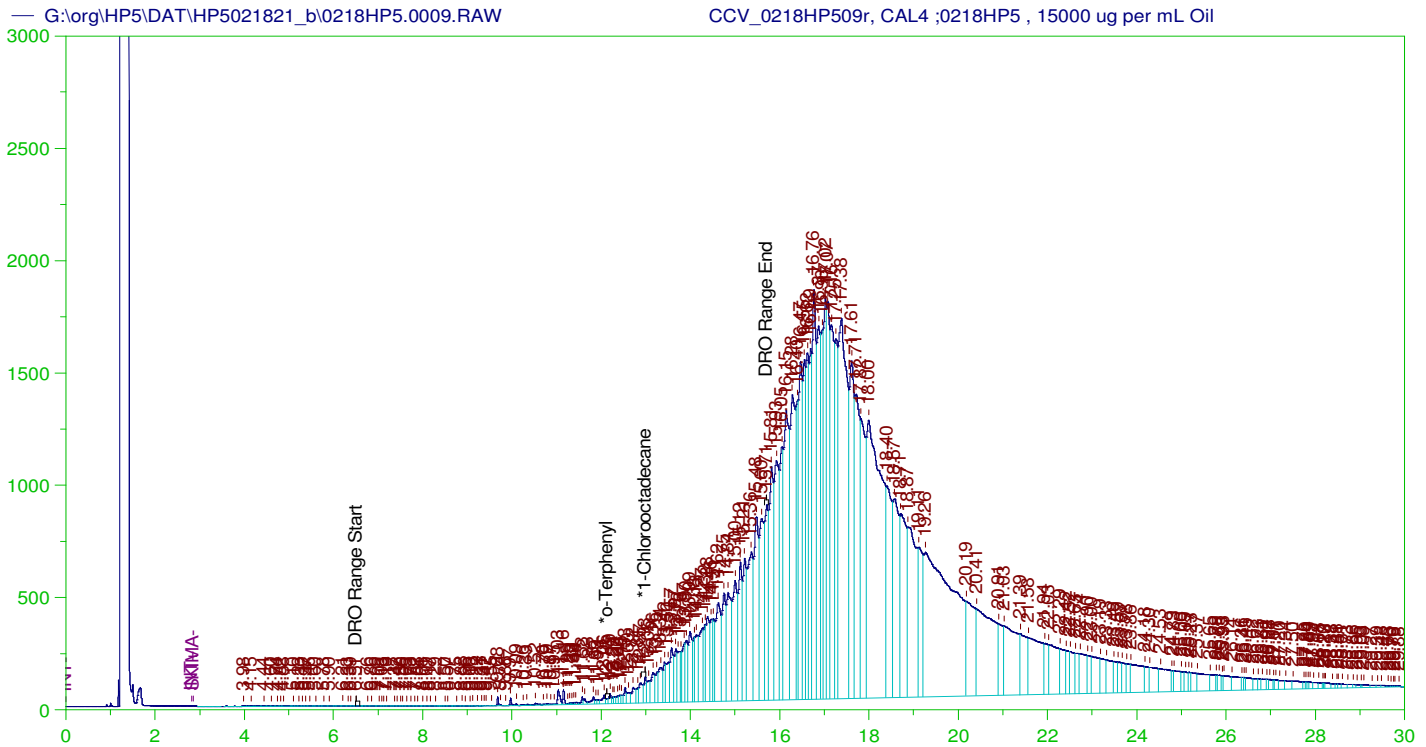
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

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

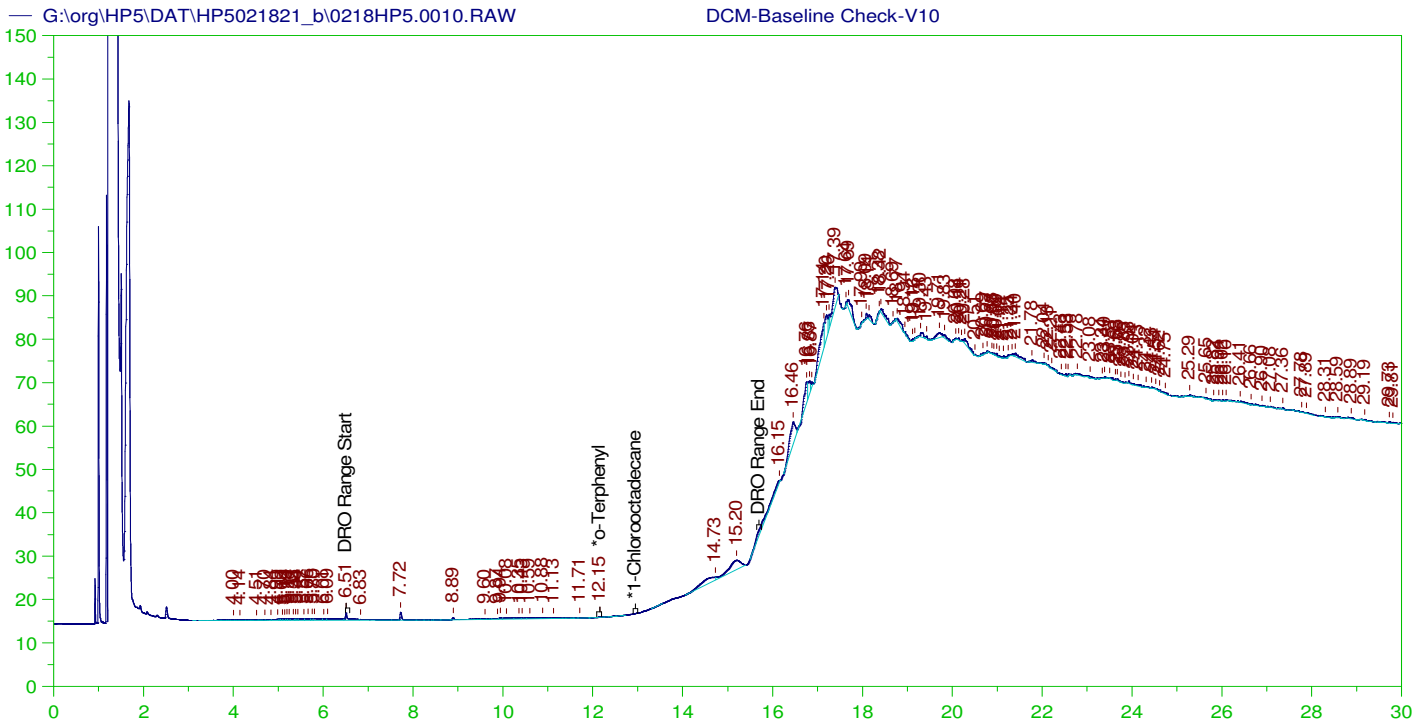
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.124	200.	1.888	.94
*1-Chlorooctadecane	12.984	200.	13.129	6.56

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**

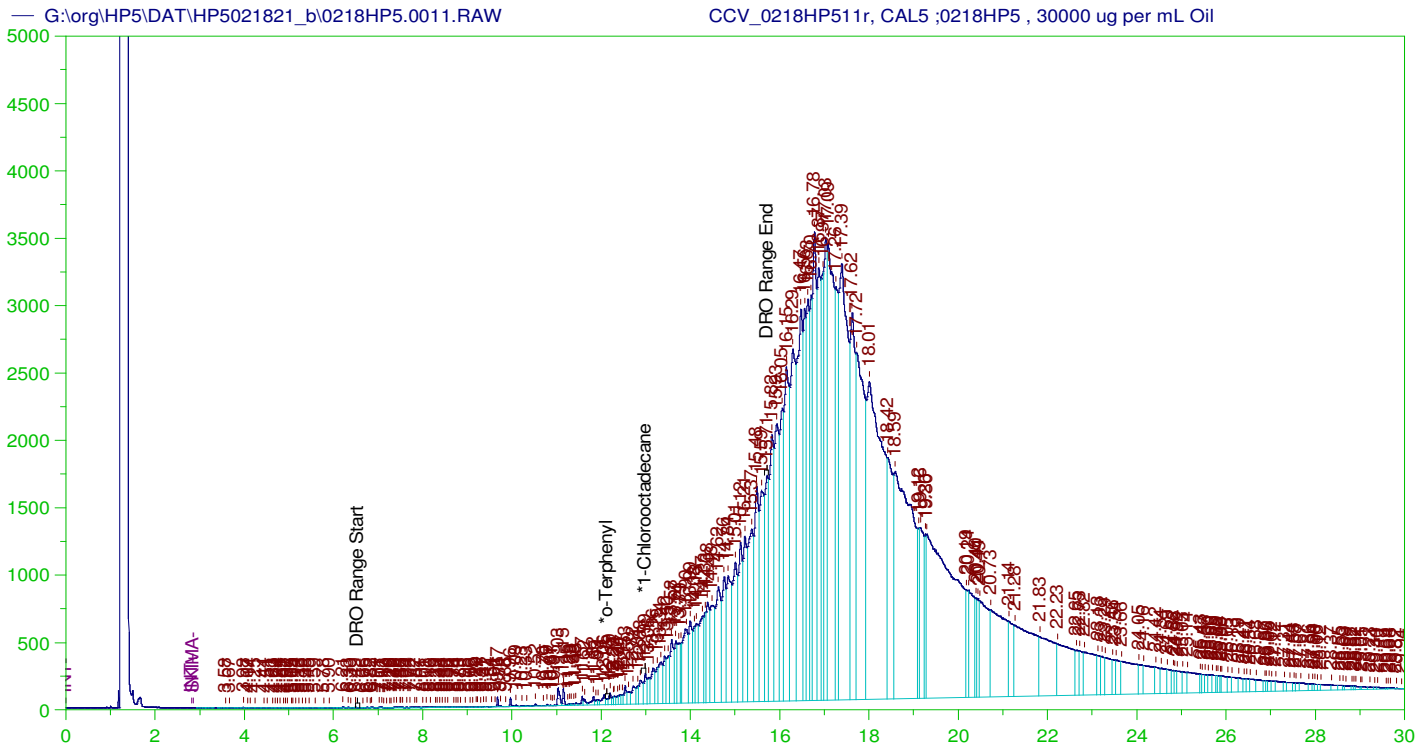
Sample Name: DCM-Baseline Check-V10  
 Raw File: G:\org\HP5\DAT\HP5021821\_b\0218HP5.0010.RAW  
 Date & Time Acquired: 2/18/2021 4:56:16 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HE-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108HE.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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

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

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





**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0218HP511r, CAL5 ;0218HP5 , 30000 ug per mL Oil  
 Raw File: G:\org\HP5\DAT\HP5021821\_b\0218HP5.0011.RAW  
 Date & Time Acquired: 2/18/2021 5:38:33 PM  
 Method File: G:\ORG\HP5\METHODS\DR\_OIL-021811-AA-L0.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_OIL210218AA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 28542.41

Rt range for Diesel Range Organics: 6.49 to 15.75

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

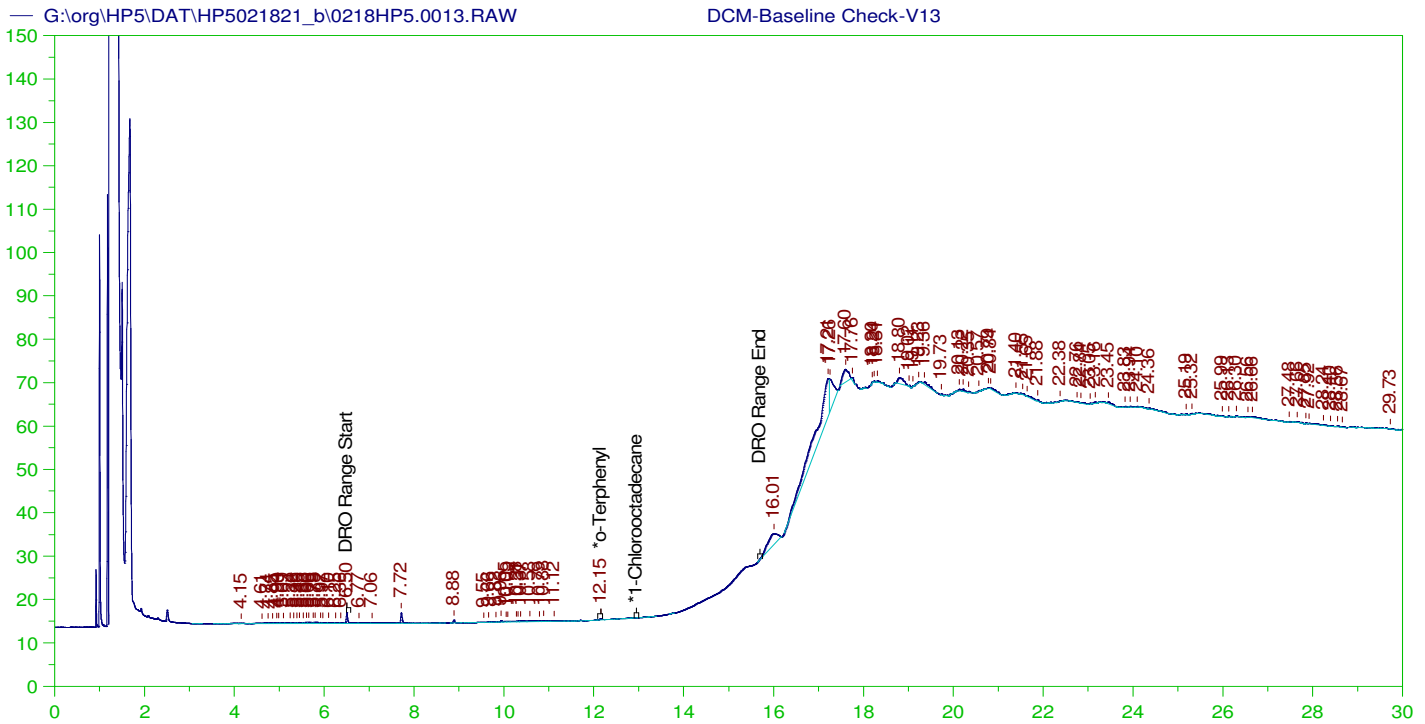
DRO Area: 1.319327E+08 DRO Amount: 4622.338  
 TEH Area: 8.051155E+08 TEH Amount: 28207.69

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5021821\_b\0218HP5.0011.RAW

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

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





**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

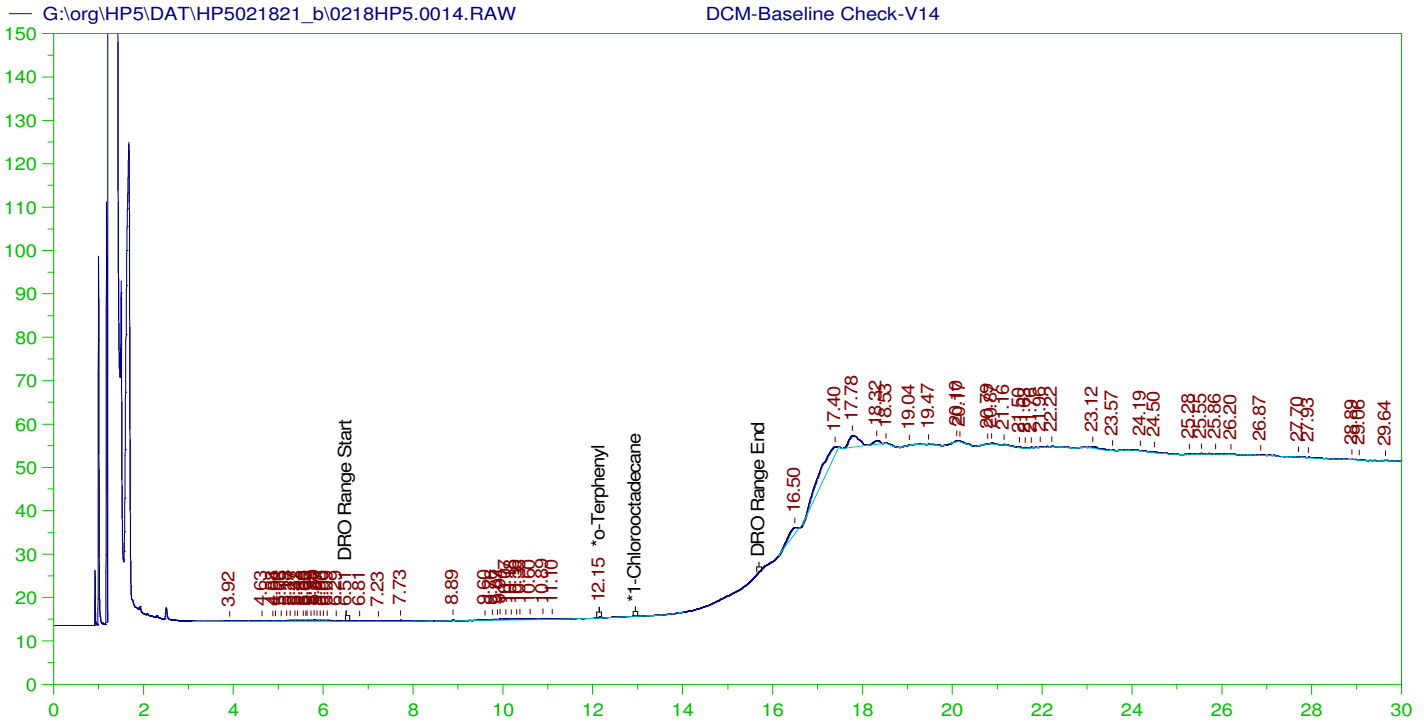
Sample Name: DCM-Baseline Check-V13  
 Raw File: G:\org\HP5\DAT\HP5021821\_b\0218HP5.0013.RAW  
 Date & Time Acquired: 2/18/2021 7:03:01 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HE-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108HE.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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



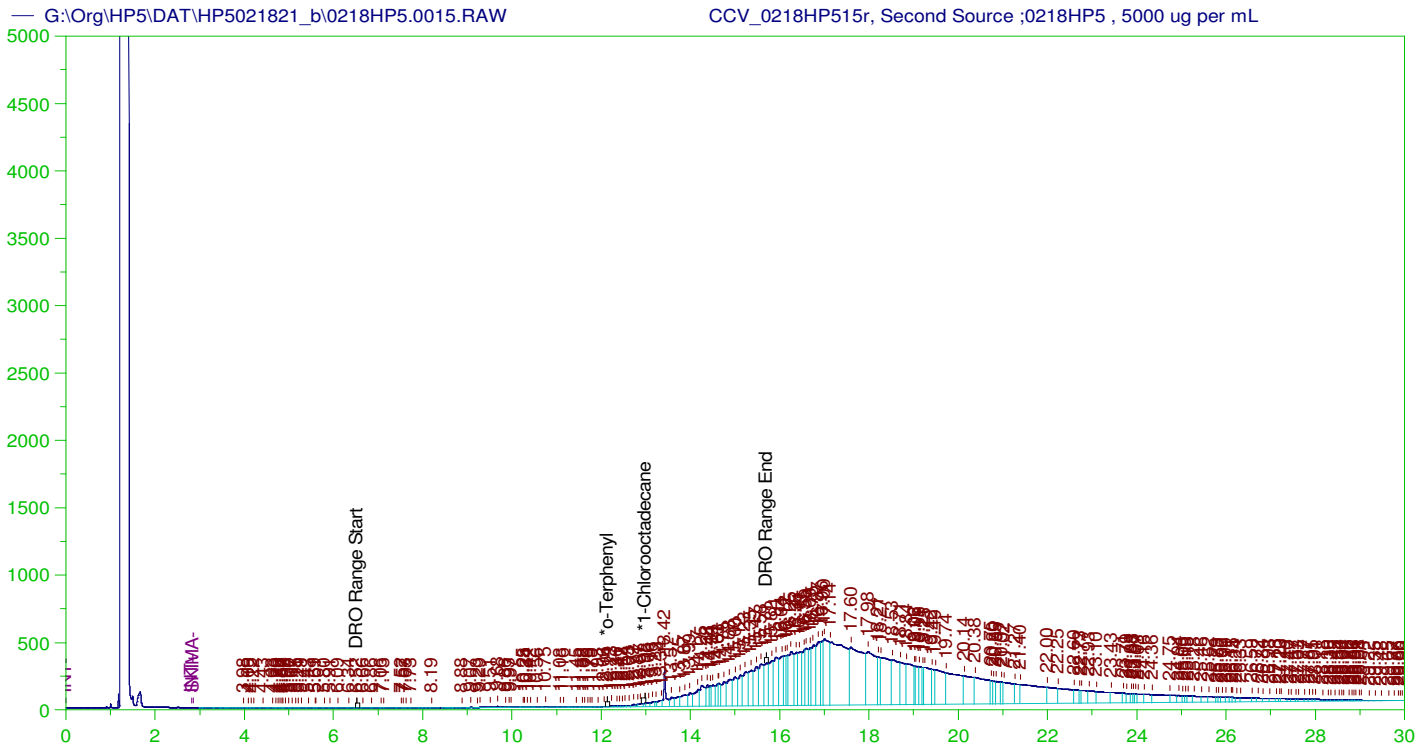
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

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		85-115
*1-Chlorooctadecane	12.984	.2	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

<b>Run Start Date:</b> 10/17/2021
<b>Analyst:</b> Ann Nebel
<b>Ical:</b>
<b>Column ID:</b>
<b>Comments:</b> Triacotane ICAL

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO211006A	Triacotane 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-Triacotane	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-Triacotane	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-Triacotane	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-Triacotane	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: 9

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

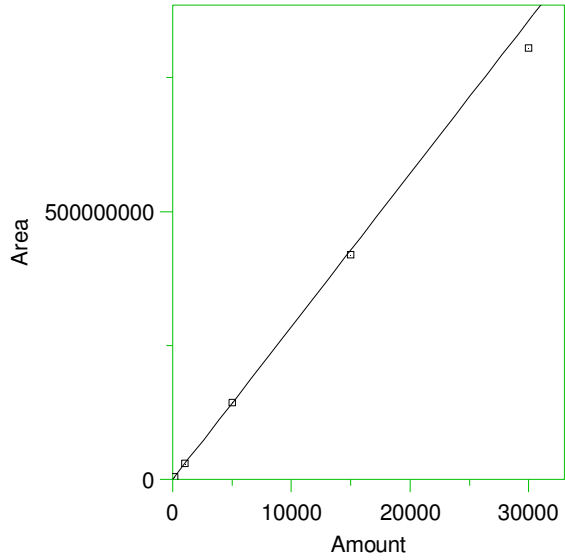
No default component

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

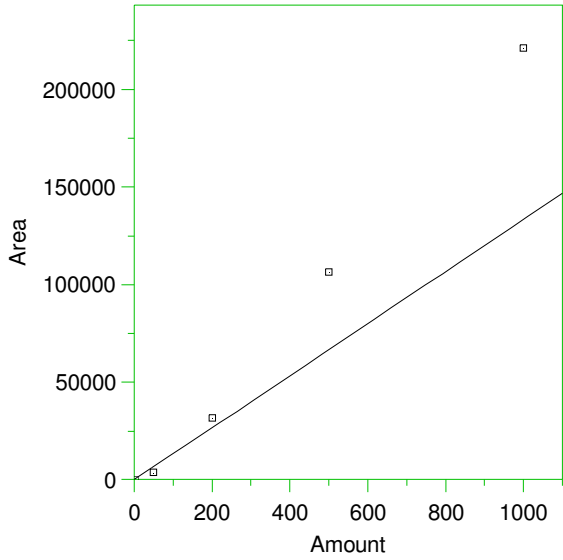
Single peak quantification by area

$Y = 28542.41 X + 0$

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

2 #C20

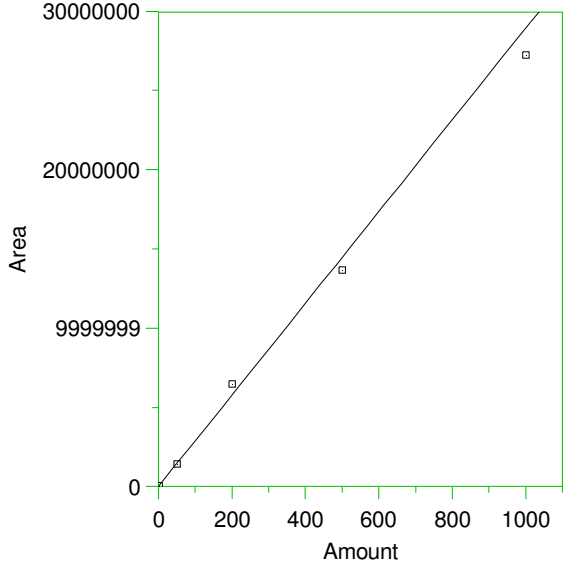


Expected retention time: 12.58 minutes  
 Search window: 0.05 minutes  
 No retention time reference component  
 Group number: 0  
 High alarm limit: 0  
 Low alarm limit: 0  
 Component constant: 0  
 Single peak quantification by area  
 Y = 133.4216 X + 0  
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.7328007  
 Average error: 57.882%  
 Average CF: 133.4216  
 RSD: 71.145%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	0	0	-100.000	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0013.BND	10/7/2021 12:46:56 PM
2	50	3688.771	73.77542	-44.705	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0015.BND	10/7/2021 12:47:26 PM
3	200	31862.25	159.3112	19.404	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0017.BND	10/7/2021 12:47:56 PM
4	500	106338.4	212.6768	59.402	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0019.BND	10/7/2021 12:48:04 PM
5	1000	221344.3	221.3443	65.898	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0021.BND	10/7/2021 12:48:11 PM

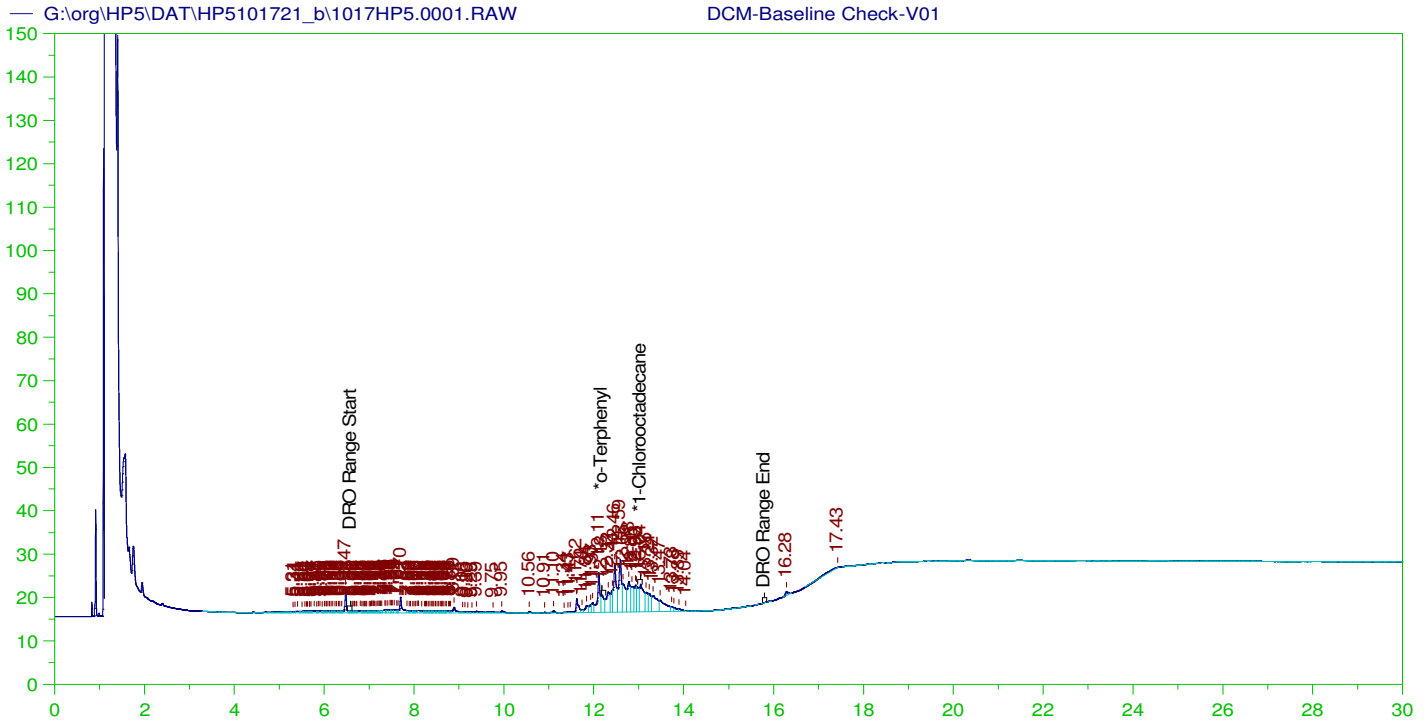
3

\*#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



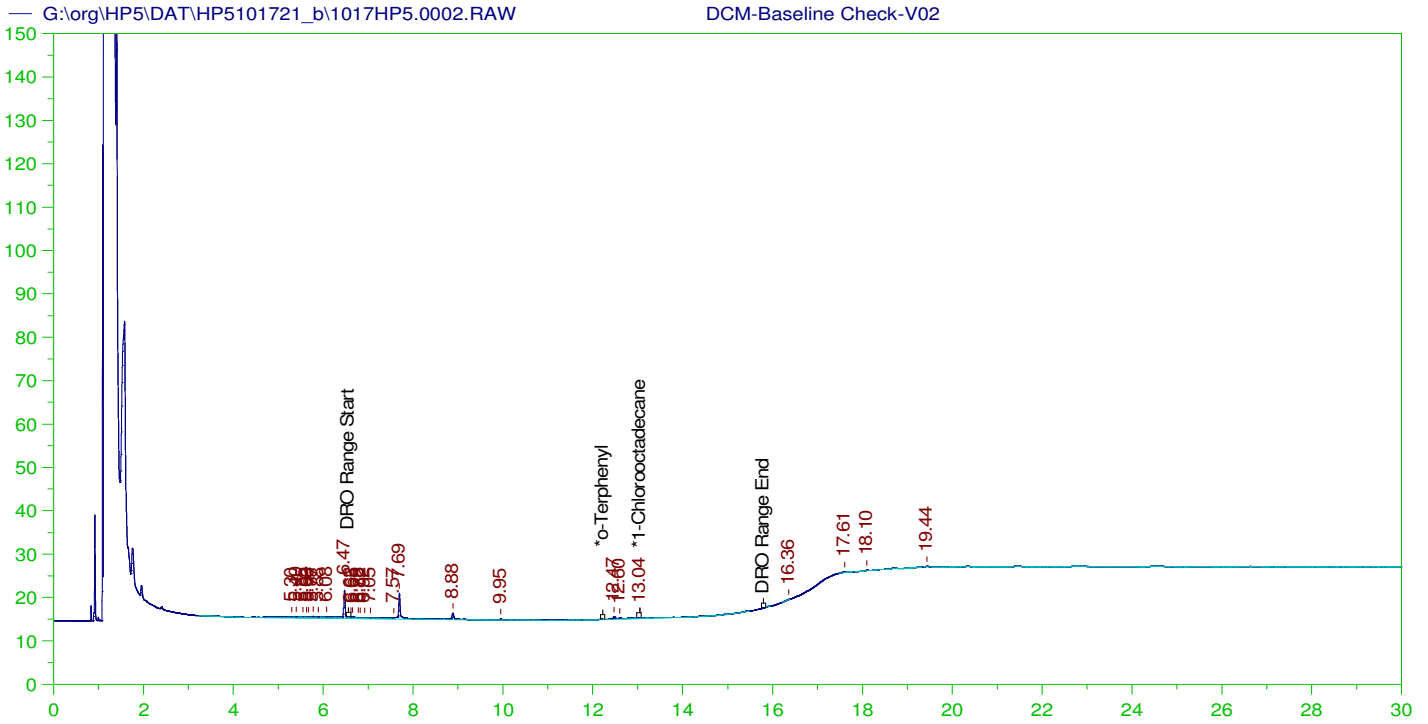
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

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**

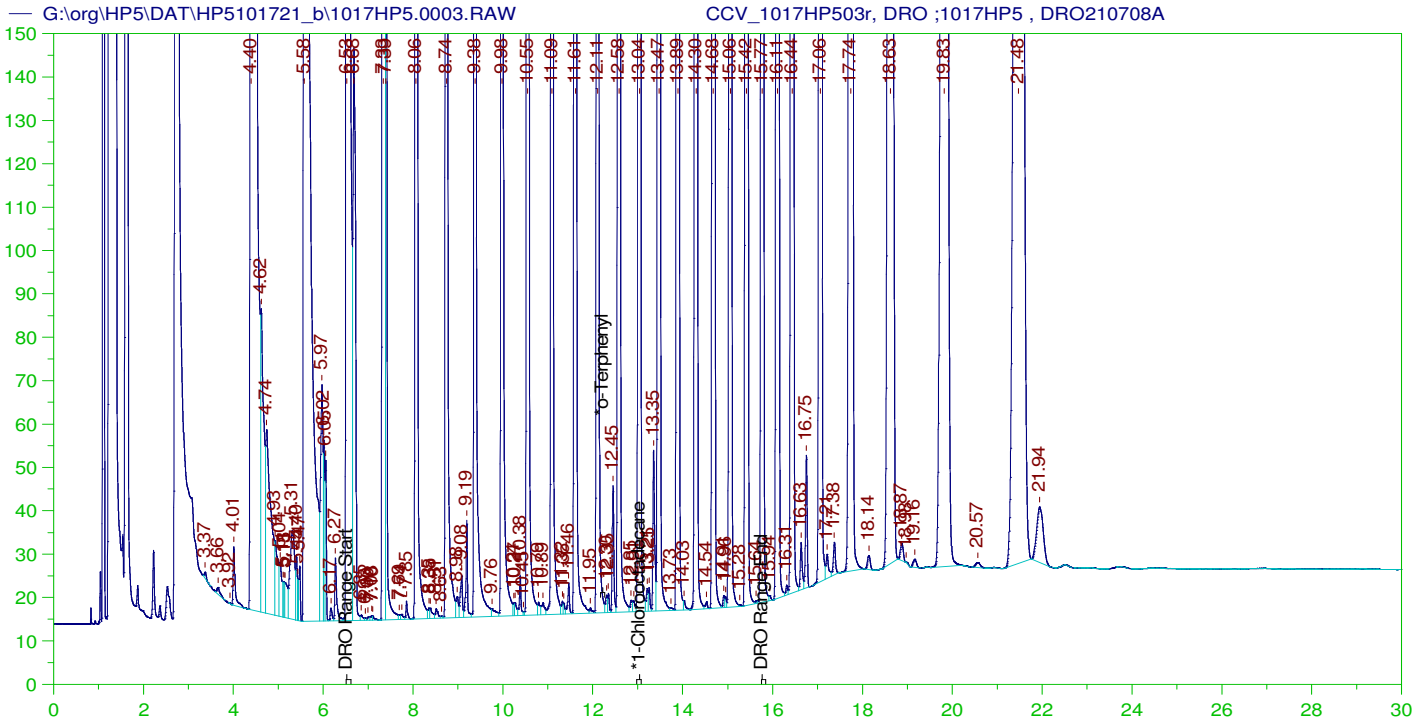
Sample Name: DCM-Baseline Check-V02  
 Raw File: G:\org\HP5\DAT\HP5101721\_b\1017HP5.0002.RAW  
 Date & Time Acquired: 10/17/2021 1:22:21 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HS-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108Hs.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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 -

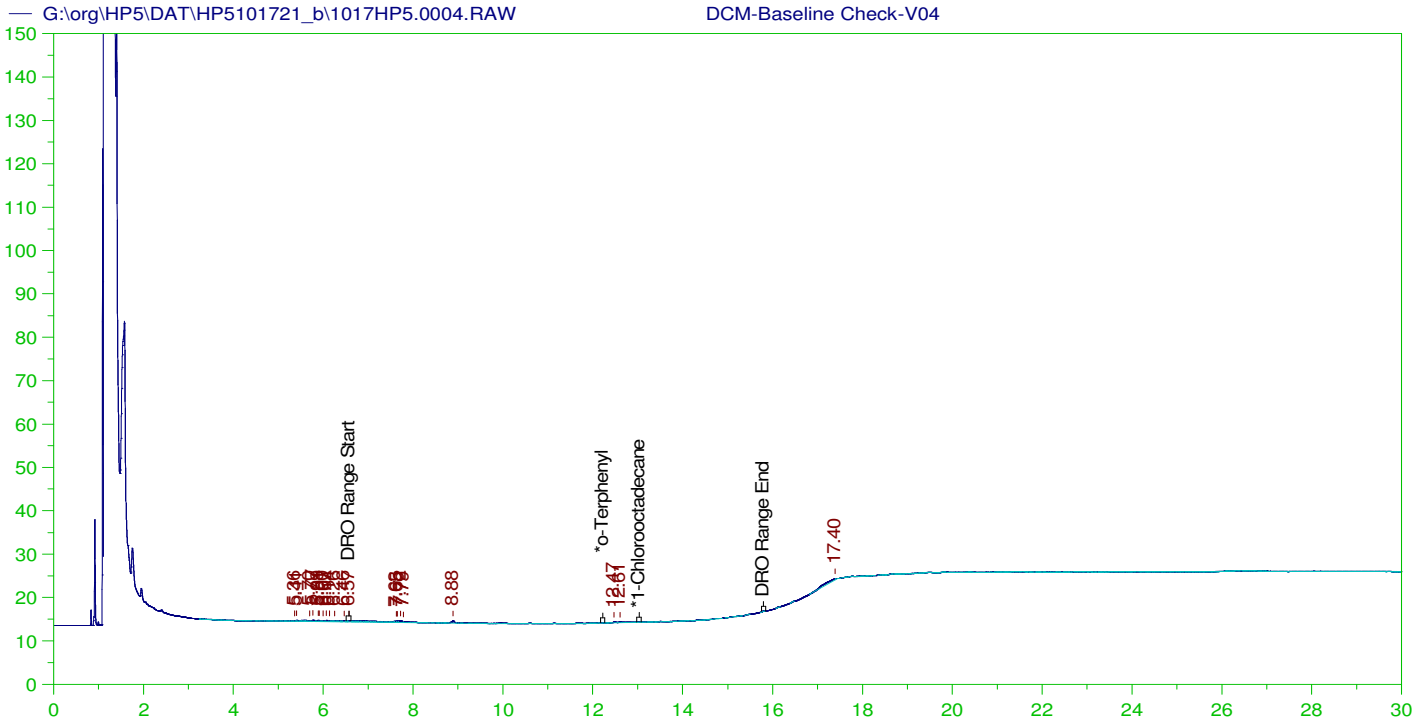
DRO Area: 1.592713E+08 DRO Amount: 5406.847  
 TEH Area: 2.370861E+08 TEH Amount: 8048.458

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**

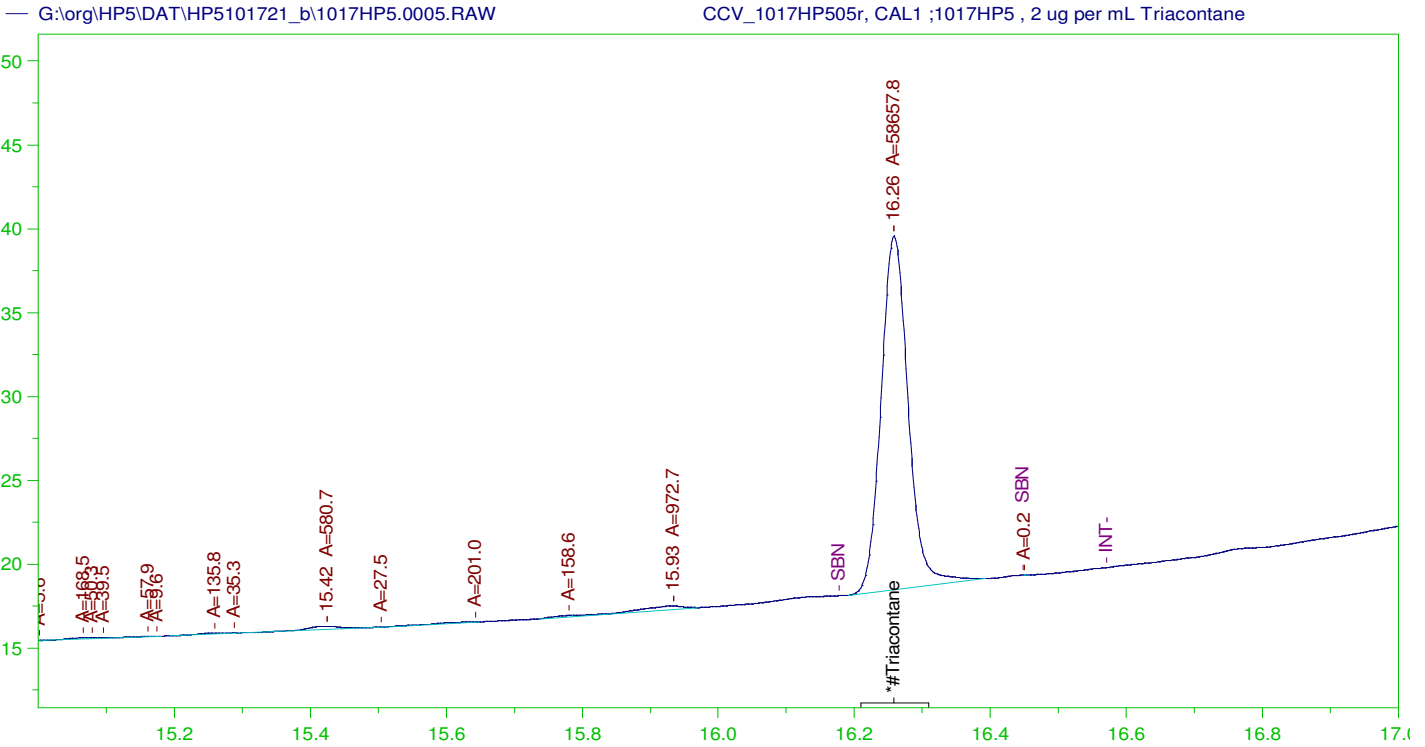
Sample Name: DCM-Baseline Check-V04  
 Raw File: G:\org\HP5\DAT\HP5101721\_b\1017HP5.0004.RAW  
 Date & Time Acquired: 10/17/2021 2:47:29 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HS-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108Hs.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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

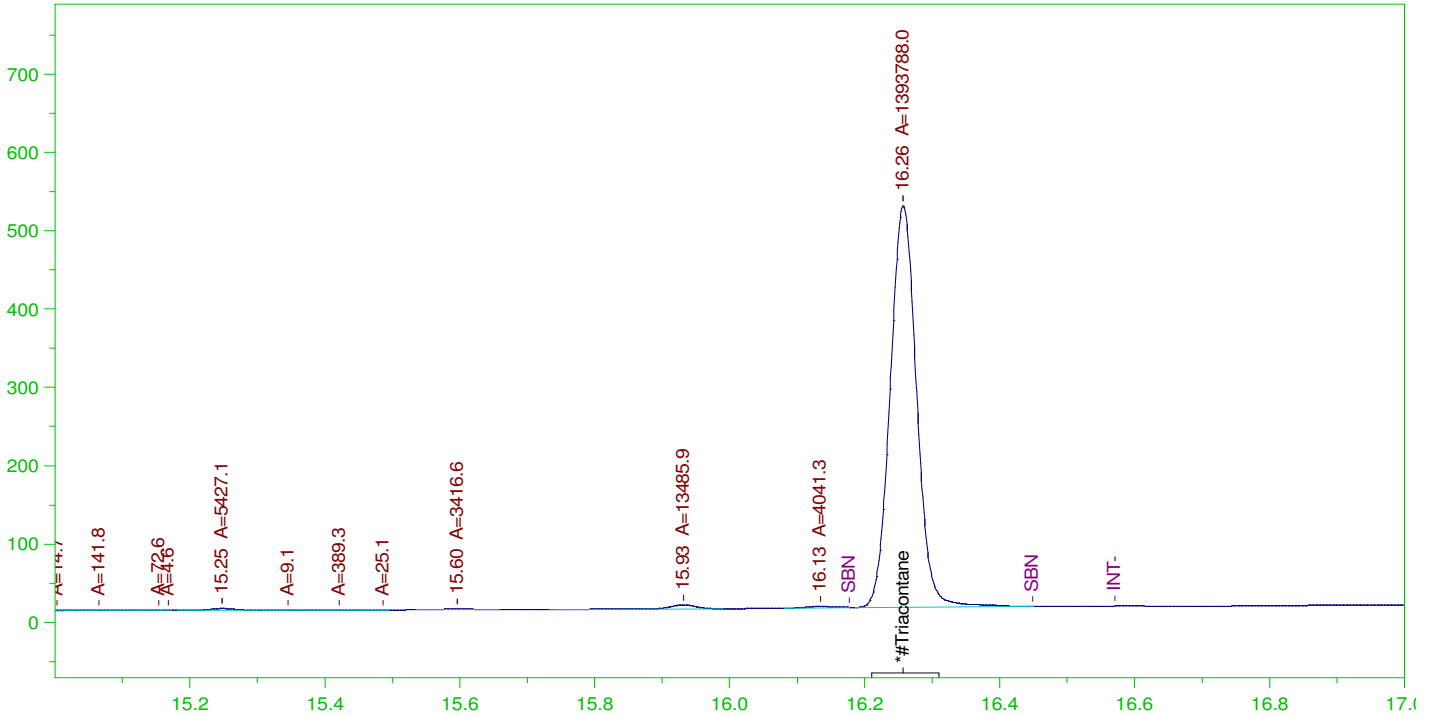
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.	75-125	

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.258	200.	2.028	1.01	75-125

G:\org\HP5\DAT\HP5101721\_b\1017HP5.0006.RAW

CCV\_1017HP506r, CAL2 ;1017HP5 , 50 ug per mL Triacontane



**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

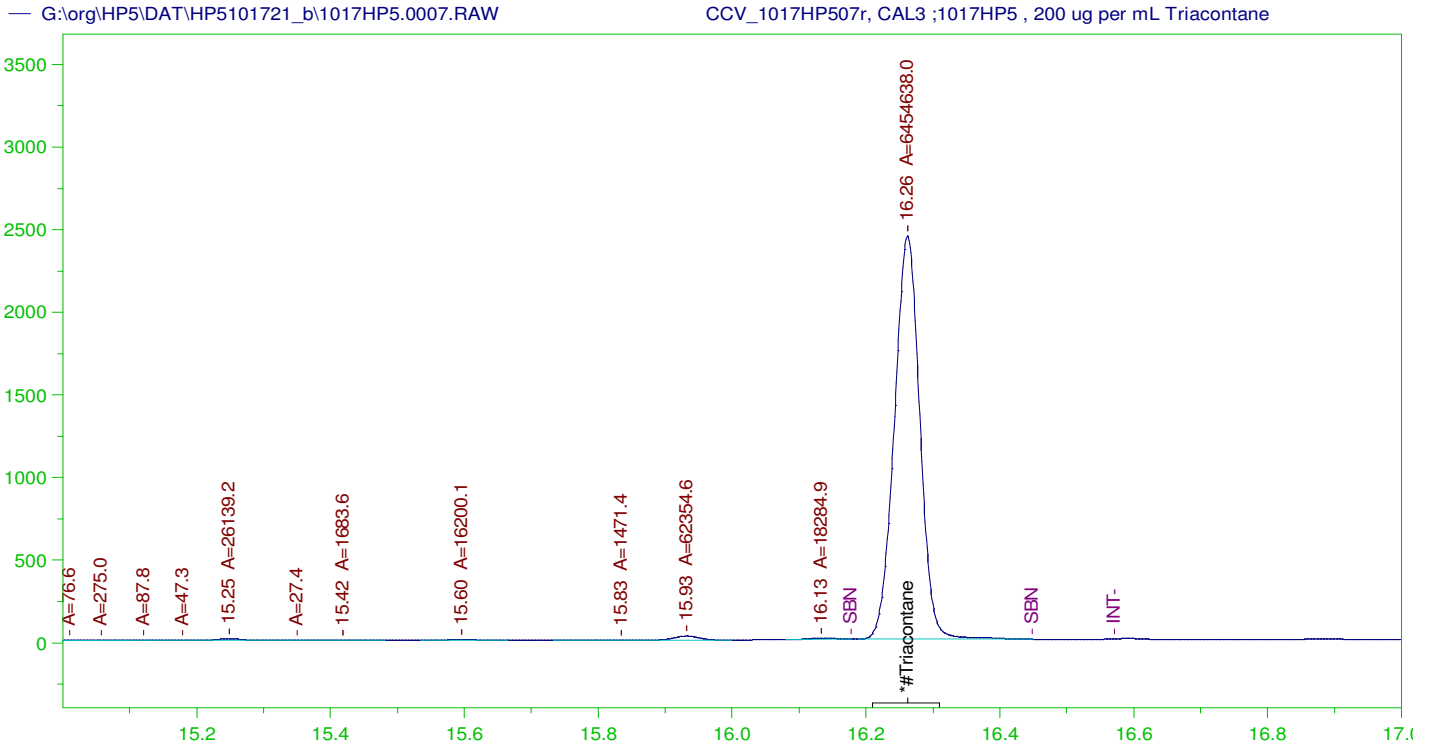
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	-
*#Triacontane	16.257	500.	48.178	9.64	-

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

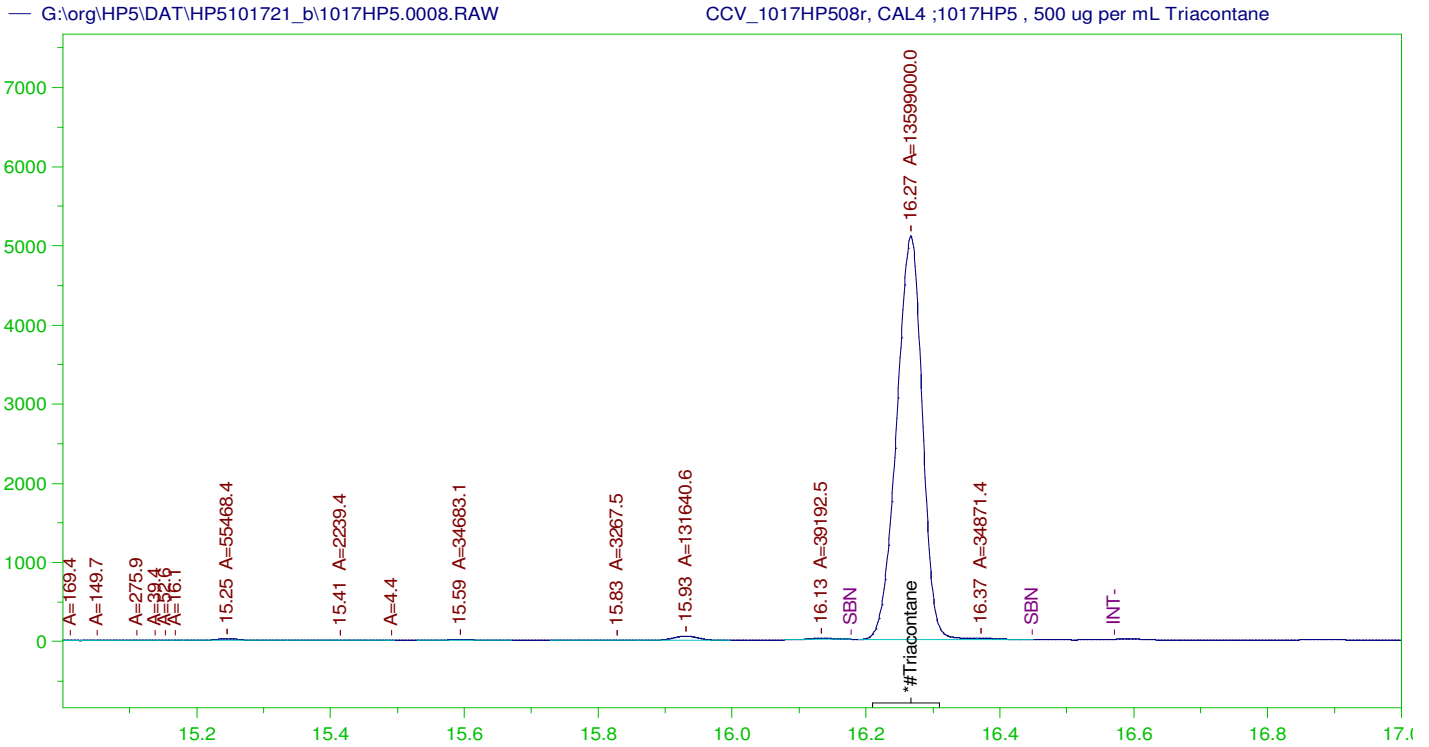
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.262	500.	223.111	44.62	-

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

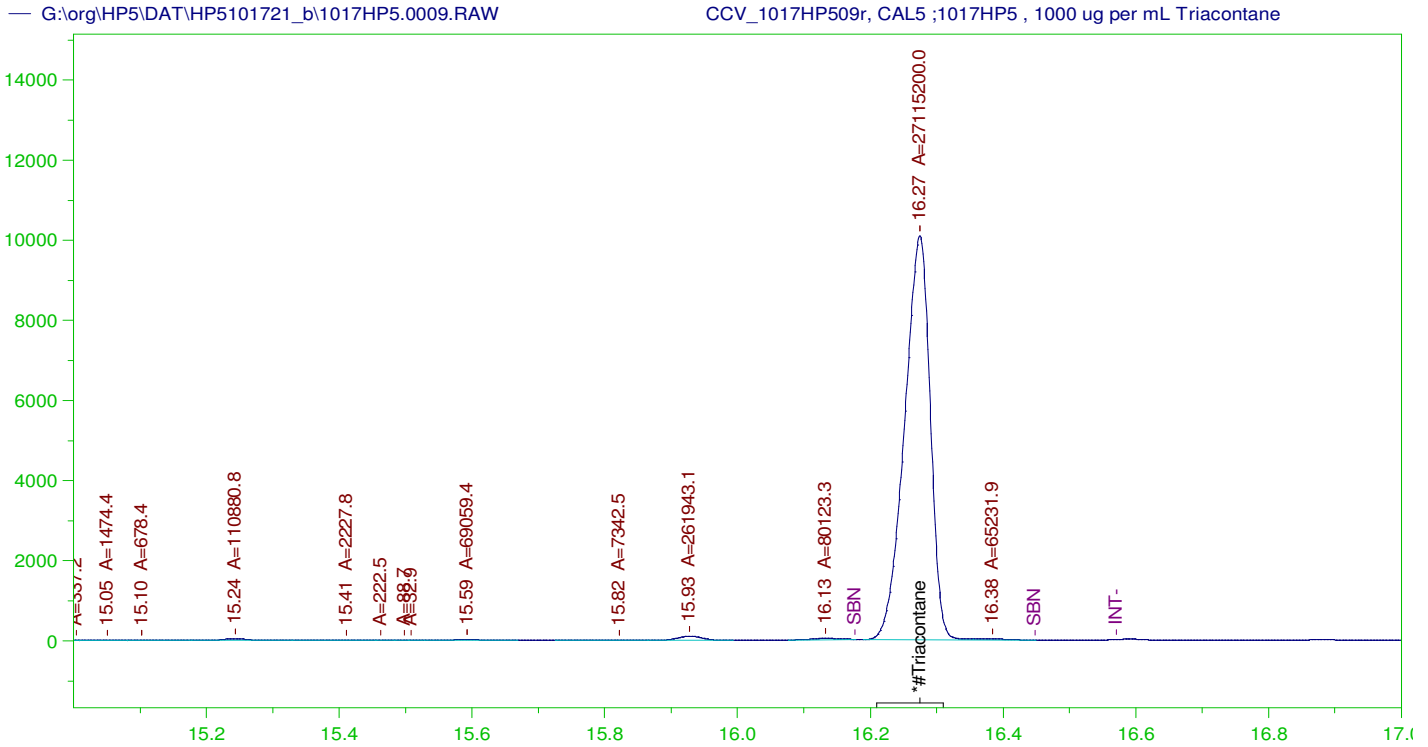
Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 12.53 to 30.05

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 Baseline 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 Baseline 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 Baseline 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 Baseline 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 Baseline 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 **160878** Prep Temp **NA °C**

Technician: **Jillian L Bostwick**  
 Batch Units: **ML**

Prep Start Date: **11/1/2021 12:22:50 P**  
 Prep End Date: **11/3/2021 4:06:00 PM**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
MB-160878			1000	0	0	1.00	0.001		11/1/2021	11/2/2021
Lines 1-7 Start time: 12:20 PM, 11/1/2021. End time: 11/2/2021 at 6:20 AM. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
LCS-160878			1000	0	0	1.00	0.001		11/1/2021	11/2/2021
SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
LCS-160878-RRO			1000	0	0	1.00	0.001		11/1/2021	11/2/2021
All bottles were completely used and disposed of. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110015-001Bx	Ground Water	2	1000	0	0	1.00	0.000952		11/1/2021	11/2/2021
Bottle 1/2. Clear. Possible double triacontane surrogated. Sample was lost at prepping										
B21110021-001B	Ground Water	2	1060	0	0	1.00	0.000948		11/1/2021	11/2/2021
Bottle 1/2. Clear.										
B21110030-001B	Ground Water	2	1030	0	0	1.00	0.000971		11/1/2021	11/2/2021
Bottle 1/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/5/2021.										
B21110030-002B	Ground Water	2	1030	0	0	1.00	0.000971		11/1/2021	11/2/2021
Bottle 1/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/5/2021.										
B21110045-001B	Ground Water	2	1040	0	0	1.00	0.000962		11/1/2021	11/2/2021
Bottle 1/2. Clear. Start time: 4:25 PM, 11/1/2021. End time: 11/2/2021 at 10:25 AM.										
B21110057-001A	Ground Water	2	980	0	0	1.00	0.00102		11/1/2021	11/2/2021
Bottle 1/2. Clear, light sediment. Lines 9-16 Start time: 4:00 PM, 11/1/2021. End time: 11/2/2021 at 10:00 AM. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110057-002A	Ground Water	2	1020	0	0	1.00	0.00098		11/1/2021	11/2/2021
Bottle 1/2. Clear, light sediment. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110057-003A	Ground Water	2	990	0	0	1.00	0.00101		11/1/2021	11/2/2021
Bottle 1/2. Clear, light sediment. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110057-004A	Ground Water	2	1030	0	0	1.00	0.000971		11/1/2021	11/2/2021
Bottle 1/2. Clear, light sediment. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110057-005A	Ground Water	2	1030	0	0	1.00	0.000971		11/1/2021	11/2/2021
Bottle 1/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										

Number	Reagent Name	Exp Date
11	Carbon Filter Water	1/1/2023
13379	PTFE Boiling Stones 27463755	12/30/2025
13925	pH-indicator Strips 0-14 HC155968	3/31/2025
14181	4ML, Amber Vial, 24166704	8/17/2026
14408	Dichloromethane EC328	8/19/2023
14448	Dichloromethane EC344	8/26/2023

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP211019 14244	DCM RINSED FILTER PAPER	all	1	4/6/2026
Sulfate 10/27/21 (	Baked Sodium Sulfate	all	Varies	10/5/2026
DRO211012J	OTP/COD SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
DRO211012B	#2 Diesel in Acetone 150,000 ug/mL	LCS, MS, MSD	100 uL	11/5/2023
DRO210902A	50,000 ug/mL Oil Std for RRO-In D	LCS-RRO, MS-R	100 uL	9/1/2026
DRO211101B	Triacontane SURR 1000 ug/mL	Line 8, Lines 17-2	100 uL	4/6/2026
DRO211009A	Triacontane SURR 1000 ug/mL	Lines 1-7, 9-16 ex	100 uL	4/6/2026
SG211103(13376)	Baked Silica Gel	SGT's	5g	2/28/2030



# PREP BATCH REPORT

Prep Code: **HC-3520-DRO**  
 Prep Batch **160878** Prep Temp **NA °C**

Technician: **Jillian L Bostwick**  
 Batch Units: **ML**

Prep Start Date: **11/1/2021 12:22:50 P**  
 Prep End Date: **11/3/2021 4:06:00 PM**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
B21110057-006A	Drinking Water	2	1020	0	0	1.00	0.00098		11/1/2021	11/2/2021
Bottle 1/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110057-007A	Drinking Water	2	1050	0	0	1.00	0.000952		11/1/2021	11/2/2021
Bottle 1/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110015-001B	Ground Water	2	1050	0	0	1.00	0.000952		11/1/2021	11/2/2021
Bottle 2/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/5/2021.										
B21110079-001B	Ground Water	2	1020	0	0	1.00	0.00098		11/1/2021	11/2/2021
Bottle 1/2. Clear. Lines 17-21 Start time: 5:50 PM, 11/1/2021. End time: 11/2/2021 at 11:50 AM. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110079-001BMS	Ground Water	2	1040	0	0	1.00	0.000962		11/1/2021	11/2/2021
Bottle 2/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110079-001BMSD	Ground Water	2	1020	0	0	1.00	0.00098		11/1/2021	11/2/2021
Bottle 3/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110079-001BMS-RRO	Ground Water	2	1050	0	0	1.00	0.000952		11/1/2021	11/2/2021
Bottle 4/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110079-001BMSD-RRO	Ground Water	2	1060	0	0	1.00	0.000943		11/1/2021	11/2/2021
Bottle 5/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/4/2021.										
B21110062-001B	Ground Water	2	1050	0	0	1.00	0.000952		11/1/2021	11/2/2021
Bottle 1/2. Clear. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/5/2021.										
B21110062-002B	Ground Water	2	1060	0	0	1.00	0.000943		11/2/2021	11/3/2021
Bottle 1/2. Clear. Lines 23-25 Start time: 11:35 AM, 11/2/2021. End time: 11/3/2021 at 6:30 AM. SGT was carried out on the remaining 0.9 mL of sample by ALN on 11/5/2021.										
B21110079-002B	Ground Water	2	1000	0	0	1.00	0.001		11/2/2021	11/3/2021
Bottle 1/2. Clear.										
B21110079-003B	Ground Water	2	1010	0	0	1.00	0.00099		11/2/2021	11/3/2021
Bottle 1/2. Clear.										

Number	Reagent Name	Exp Date
11	Carbon Filter Water	1/1/2023
13379	PTFE Boiling Stones 27463755	12/30/2025
13925	pH-indicator Strips 0-14 HC155968	3/31/2025
14181	4ML, Amber Vial, 24166704	8/17/2026
14408	Dichloromethane EC328	8/19/2023
14448	Dichloromethane EC344	8/26/2023

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP211019 14244	DCM RINSED FILTER PAPER	all	1	4/6/2026
Sulfate 10/27/21 (	Baked Sodium Sulfate	all	Varies	10/5/2026
DRO211012J	OTP/COD SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
DRO211012B	#2 Diesel in Acetone 150,000 ug/mL	LCS, MS, MSD	100 uL	11/5/2023
DRO210902A	50,000 ug/mL Oil Std for RRO-In D	LCS-RRO, MS-R	100 uL	9/1/2026
DRO211101B	Triacontane SURR 1000 ug/mL	Line 8, Lines 17-2	100 uL	4/6/2026
DRO211009A	Triacontane SURR 1000 ug/mL	Lines 1-7, 9-16 ex	100 uL	4/6/2026
SG211103(13376)	Baked Silica Gel	SGT's	5g	2/28/2030

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

09-Nov-21

Run ID GCFID-HP5-B\_211103A

<b>Run Start Date:</b> 11/3/2021
<b>Analyst:</b> Ann Nebel
<b>Ical:</b>
<b>Column ID:</b>
<b>Comments:</b> 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
DRO210708A	Carbon Scan STD-Marker					MARKER-C	3/5/2028
DRO211008A	5,000 ug/mL RRO CCV 200 ug/mL Triacotane					CCV-OIL	4/6/2026
DRO211012I	ALASKA MARKER-200ug/mL					MARKER	5/31/2022
DRO211103A	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					
14828185	MARKER_1103	HC-8015-DRO-	SAMP		11/3/2021 11:16:	1	R369766		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		2.432412		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		4.001791		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2217221		0.2	0	0	0.000429	0.002	0	111%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.432412		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					
14828186	CCV_1103HP50	HC-8015-DRO-	CCV		11/3/2021 11:59:	1	R369766		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		4.81059912		5	0	0	0.0879	0.3	0	96%	80	120	0%	
n-Triacotane	S	mg/L		0.1974342		0.2	0	0	0.000336	0.002	0	99%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14828187	CCV_1103HP50	HC-8015-DRO-	CCV		11/3/2021 1:28:5	1	R369766		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		13.66143		15	0	0	0.0389	0.3	0	91%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.19274		15	0	0	0.0749	0.3	50	95%	80	120	0%	
o-Terphenyl	S	mg/L		0.2356746		0.2	0	0	0.000429	0.002	0	118%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14828188	LCS-160878	HC-8015-DRO-	LCS-DOD		11/3/2021 2:55:0	1	160878	11/1/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		12.45741		15	0	0	0.0389	0.3	0	83%	36	132	0%	
Total Extractable Hydrocarbons	A	mg/L		13.3204		15	0	0	0.0749	0.3	50	89%	60	132	0%	
o-Terphenyl	S	mg/L		0.2006184		0.2	0	0	0.000429	0.002	0	100%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14828189	MB-160878	HC-8015-DRO-	MBLK		11/3/2021 3:38:1	1	160878	11/1/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0		0	0	0	0.0389	0.15	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.0879	0.15	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0		0	0	0	0.0749	0.15	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.083		0.1	0	0	0.000336	0.002	0	83%	50	150	0%	
o-Terphenyl	S	mg/L		0.182482		0.2	0	0	0.000429	0.002	0	91%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14828190	B21110057-007	HC-8015-DRO-	SAMP		11/3/2021 4:21:3	1	160878	11/1/2021 3:	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		0.0783		0.0952	0	0	0.0003199	0.001904	0	82%	50	150	0%	
o-Terphenyl	S	mg/L		0.1691316		0.1904	0	0	0.0004084	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					
14828191	B21110057-005	HC-8015-DRO-	SAMP		11/3/2021 5:48:2	1	160878	11/1/2021 3:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0		0	0	0	0.0377719	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.0853509	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0		0	0	0	0.0727279	0.3	50	0%	0	0	0%	U
n-Triacontane	S	mg/L		0.0845		0.0971	0	0	0.0003263	0.001942	0	87%	50	150	0%	
o-Terphenyl	S	mg/L		0.1804866		0.1942	0	0	0.0004166	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					
14828192	B21110057-006	HC-8015-DRO-	SAMP		11/3/2021 6:31:4	1	160878	11/1/2021 3:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0		0	0	0	0.038122	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.086142	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0		0	0	0	0.073402	0.3	50	0%	0	0	0%	U
n-Triacontane	S	mg/L		0.0858		0.098	0	0	0.0003293	0.00196	0	88%	50	150	0%	
o-Terphenyl	S	mg/L		0.1826174		0.196	0	0	0.0004204	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					
14828193	B21110057-004	HC-8015-DRO-	SAMP		11/3/2021 7:14:5	1	160878	11/1/2021 3:	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		0.08417411		0	0	0	0.0377719	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.13025594		0	0	0	0.0853509	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.2582107		0	0	0	0.0727279	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.0911		0.0971	0	0	0.0003263	0.001942	0	94%	50	150	0%	
o-Terphenyl	S	mg/L		0.1733239		0.1942	0	0	0.0004166	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					
14828194	B21110057-003	HC-8015-DRO-	SAMP		11/3/2021 7:58:0	1	160878	11/1/2021 3:	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		0.1563598		0	0	0	0.039289	0.303	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.36619887		0	0	0	0.088779	0.303	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0.5842478		0	0	0	0.075649	0.303	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.0873		0.101	0	0	0.0003394	0.00202	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					
14828194	B21110057-003	HC-8015-DRO-	SAMP		11/3/2021 7:58:0	1	160878	11/1/2021 3:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.1818993		0.202	0	0	0.0004333	0.00202	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					
14828195	B21110057-002	HC-8015-DRO-	SAMP		11/3/2021 8:41:1	1	160878	11/1/2021 3:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		3.257849		0	0	0	0.038122	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.39060360		0	0	0	0.086142	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.72987		0	0	0	0.073402	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.0842		0.098	0	0	0.0003293	0.00196	0	86%	50	150	0%	
o-Terphenyl	S	mg/L		0.113187		0.196	0	0	0.0004204	0.002	0	58%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14828196	B21110057-001	HC-8015-DRO-	SAMP		11/3/2021 9:24:2	1	160878	11/1/2021 3:	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		0.4049989		0	0	0	0.039678	0.306	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.23375319		0	0	0	0.089658	0.306	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.703256		0	0	0	0.076398	0.306	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.0939		0.102	0	0	0.0003427	0.00204	0	92%	50	150	0%	
o-Terphenyl	S	mg/L		0.1578105		0.204	0	0	0.0004376	0.00204	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					
14828197	MARKER_1103	HC-8015-DRO-	SAMP		11/3/2021 10:50:	1	R369766				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		2.406325		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.967354		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2186205		0.2	0	0	0.000429	0.002	0	109%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.406325		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					
14828198	CCV_1103HP52	HC-8015-DRO-	CCV		11/3/2021 11:33:	1	R369766		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		4.83841211		5	0	0	0.0879	0.3	0	97%	80	120	0%	
n-Triacontane	S	mg/L		0.195096		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					
14828199	CCV_1103HP52	HC-8015-DRO-	CCV		11/4/2021 12:16:	1	R369766		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		14.15237		15	0	0	0.0389	0.3	0	94%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.64221		15	0	0	0.0749	0.3	50	98%	80	120	0%	
o-Terphenyl	S	mg/L		0.1930389		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					
14828200	B21110079-001	HC-8015-DRO-	SAMP		11/4/2021 1:41:5	1	160878	11/1/2021 5:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0		0	0	0	0.038122	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.086142	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0		0	0	0	0.073402	0.3	50	0%	0	0	0%	U
n-Triacontane	S	mg/L		0.0846		0.098	0	0	0.0003293	0.00196	0	86%	50	150	0%	
o-Terphenyl	S	mg/L		0.1841939		0.196	0	0	0.0004204	0.002	0	94%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14828201	B21110079-001	HC-8015-DRO-	MS-DOD		11/4/2021 2:25:0	1	160878	11/1/2021 5:	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		12.90534		14.43	0	0	0.0374218	0.3	0	89%	36	132	0%	
Total Extractable Hydrocarbons	A	mg/L		14.1004		14.43	0	0	0.0720538	0.3	50	98%	60	132	0%	
o-Terphenyl	S	mg/L		0.2058578		0.1924	0	0	0.0004127	0.002	0	107%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14828202	B21110079-001	HC-8015-DRO-	MSD-DOD		11/4/2021 3:07:5	1	160878	11/1/2021 5:	1E+07	1E+07						
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					
14828202	B21110079-001	HC-8015-DRO-	MSD-DOD		11/4/2021 3:07:5	1	160878	11/1/2021 5:	1E+07	1E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		12.57155		14.7	0	12.90534	0.038122	0.3	0	86%	36	132	3%	
Total Extractable Hydrocarbons	A	mg/L		13.55491		14.7	0	14.1004	0.073402	0.3	50	92%	60	132	4%	
o-Terphenyl	S	mg/L		0.1958355		0.196	0	0	0.0004204	0.002	0	100%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14828203	B21110079-001	HC-8015-DRO-	MS-DOD		11/4/2021 4:33:4	1	160878	11/1/2021 5:	1E+07	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		4.40406084		4.76	0	0	0.0836808	0.3	0	93%	41	113	0%	
n-Triacontane	S	mg/L		0.086		0.0952	0	0	0.0003199	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					
14828204	B21110079-001	HC-8015-DRO-	MSD-DOD		11/4/2021 5:59:2	1	160878	11/1/2021 5:	1E+07	1E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		4.42646694		4.715	0	4.4040608	0.0828897	0.3	0	94%	41	113	1%	
n-Triacontane	S	mg/L		0.0863		0.0943	0	0	0.0003168	0.002	0	92%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14828205	LCS-160878-RR	HC-8015-DRO-	LCS-DOD		11/4/2021 7:25:1	1	160878	11/1/2021 1		0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		4.46963310		5	0	0	0.0879	0.3	0	89%	41	113	0%	
n-Triacontane	S	mg/L		0.0854		0.1	0	0	0.000336	0.002	0	85%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14828206	MARKER_1103	HC-8015-DRO-	SAMP		11/4/2021 8:51:0	1	R369766			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		2.469987		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		4.069911		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2240276		0.2	0	0	0.000429	0.002	0	112%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.469987		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					
14828207	CCV_1103HP53	HC-8015-DRO-	CCV		11/4/2021 9:34:1	1	R369766		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		4.78835205		5	0	0	0.0879	0.3	0	96%	80	120	0%	
n-Triacontane	S	mg/L		0.1948729		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					
14828208	CCV_1103HP53	HC-8015-DRO-	CCV		11/4/2021 10:17:	1	R369766		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		13.95392		15	0	0	0.0389	0.3	0	93%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.44337		15	0	0	0.0749	0.3	50	96%	80	120	0%	
o-Terphenyl	S	mg/L		0.1884347		0.2	0	0	0.000429	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					
14832314	B21110045-001	HC-8015-DRO-	SAMP		11/4/2021 12:27:	1	160878	11/1/2021 3:	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		0.0859		0.0962	0	0	0.0003232	0.001924	0	89%	50	150	0%	
o-Terphenyl	S	mg/L		0.1861844		0.1924	0	0	0.0004127	0.002	0	97%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14832315	B21110015-001	HC-8015-DRO-	SAMP		11/4/2021 1:10:3	1	160878	11/1/2021 3:	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		0.03988812		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		0	0	0	0.0713048	0.3	50	0%	0	0	0%	U
n-Triacontane	S	mg/L		0.0839		0.0952	0	0	0.0003199	0.001904	0	88%	50	150	0%	
o-Terphenyl	S	mg/L		0.1738726		0.1904	0	0	0.0004084	0.002	0	91%	56	125	0%	



Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14832316	B21110021-001	HC-8015-DRO-	SAMP		11/4/2021 1:54:1	1	160878	11/1/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0		0	0	0	0.0368772	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.0833292	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0		0	0	0	0.0710052	0.3	50	0%	0	0	0%	U
n-Triacontane	S	mg/L		0.0849		0.0948	0	0	0.0003185	0.001896	0	90%	50	150	0%	
o-Terphenyl	S	mg/L		0.1821353		0.1896	0	0	0.0004067	0.002	0	96%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14832317	B21110030-001	HC-8015-DRO-	SAMP		11/4/2021 2:37:5	1	160878	11/1/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.1000221		0	0	0	0.0377719	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.0853509	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0.1201103		0	0	0	0.0727279	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.0857		0.0971	0	0	0.0003263	0.001942	0	88%	50	150	0%	
o-Terphenyl	S	mg/L		0.1874665		0.1942	0	0	0.0004166	0.002	0	97%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14832318	B21110030-002	HC-8015-DRO-	SAMP		11/4/2021 3:20:5	1	160878	11/1/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.2239267		0	0	0	0.0377719	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.0853509	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0.2438249		0	0	0	0.0727279	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.0894		0.0971	0	0	0.0003263	0.001942	0	92%	50	150	0%	
o-Terphenyl	S	mg/L		0.1945003		0.1942	0	0	0.0004166	0.002	0	100%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14832319	B21110062-001	HC-8015-DRO-	SAMP		11/4/2021 4:03:5	1	160878	11/1/2021 3:	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		2.476295		0	0	0	0.0370328	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.20616500		0	0	0	0.0836808	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		2.719286		0	0	0	0.0713048	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.0816		0.0952	0	0	0.0003199	0.001904	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					
14832319	B21110062-001	HC-8015-DRO-	SAMP		11/4/2021 4:03:5	1	160878	11/1/2021 3:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.1619028		0.1904	0	0	0.0004084	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					
14832320	B21110062-002	HC-8015-DRO-	SAMP		11/4/2021 4:46:4	1	160878	11/2/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		2.84983		0	0	0	0.0366827	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.24455552		0	0	0	0.0828897	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		3.142054		0	0	0	0.0706307	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.0883		0.0943	0	0	0.0003168	0.001886	0	94%	50	150	0%	
o-Terphenyl	S	mg/L		0.1795835		0.1886	0	0	0.0004045	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					
14832321	B21110079-002	HC-8015-DRO-	SAMP		11/4/2021 5:29:4	1	160878	11/2/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0		0	0	0	0.0389	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.0879	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0		0	0	0	0.0749	0.3	50	0%	0	0	0%	U
n-Triacontane	S	mg/L		0.0884		0.1	0	0	0.000336	0.002	0	88%	50	150	0%	
o-Terphenyl	S	mg/L		0.193376		0.2	0	0	0.000429	0.002	0	97%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14832322	B21110079-003	HC-8015-DRO-	SAMP		11/4/2021 6:12:3	1	160878	11/2/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0		0	0	0	0.038511	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		0.0891		0.099	0	0	0.0003326	0.00198	0	90%	50	150	0%	
o-Terphenyl	S	mg/L		0.1934343		0.198	0	0	0.0004247	0.002	0	98%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14832323	MARKER_1103	HC-8015-DRO-	SAMP		11/4/2021 7:38:3	1	R369766		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		2.212548		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.576255		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2050939		0.2	0	0	0.000429	0.002	0	103%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.212548		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					
14832324	CCV_1103HP54	HC-8015-DRO-	CCV		11/4/2021 8:21:2	1	R369766		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		4.78445215		5	0	0	0.0879	0.3	0	96%	80	120	0%	
n-Triacontane	S	mg/L		0.1948261		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					
14832325	CCV_1103HP55	HC-8015-DRO-	CCV		11/4/2021 9:04:1	1	R369766		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		13.95328		15	0	0	0.0389	0.3	0	93%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.43997		15	0	0	0.0749	0.3	50	96%	80	120	0%	
o-Terphenyl	S	mg/L		0.1898868		0.2	0	0	0.000429	0.002	0	95%	80	120	0%	

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

09-Nov-21

Run ID GCFID-HP5-B\_211103B

<b>Run Start Date:</b> 11/3/2021
<b>Analyst:</b> Ann Nebel
<b>Ical:</b>
<b>Column ID:</b>
<b>Comments:</b> 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
DRO210708A	Carbon Scan STD-Marker					MARKER-C	3/5/2028
DRO211008A	5,000 ug/mL RRO CCV 200 ug/mL Triacotane					CCV-OIL	4/6/2026
DRO211012I	ALASKA MARKER-200ug/mL					MARKER	5/31/2022
DRO211103A	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					
14833123	MARKER_1103	HC-8015-DRO-	SAMP		11/4/2021 7:38:3	1	R369846		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		2.212548		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.576255		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2050939		0.2	0	0	0.000429	0.002	0	103%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.212548		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					
14833124	CCV_1103HP54	HC-8015-DRO-	CCV		11/4/2021 8:21:2	1	R369846		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		4.78445215		5	0	0	0.0879	0.3	0	96%	80	120	0%	
n-Triacotane	S	mg/L		0.1948261		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					
14833125	CCV_1103HP55	HC-8015-DRO-	CCV		11/4/2021 9:04:1	1	R369846		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		13.95328		15	0	0	0.0389	0.3	0	93%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.43997		15	0	0	0.0749	0.3	50	96%	80	120	0%	
o-Terphenyl	S	mg/L		0.1898868		0.2	0	0	0.000429	0.002	0	95%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14833126	LCS-160878	HC-8015-DRO-	LCS-DOD		11/4/2021 10:30:	1	160878	11/1/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		11.12116		15	0	0	0.0389	0.3	0	74%	36	132	0%	
Total Extractable Hydrocarbons (SGT	A	mg/L		11.82348		15	0	0	0.0329	0.3	0	79%	60	132	0%	
o-Terphenyl (SGT)	S	mg/L		0.1861294		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					
14833127	MB-160878	HC-8015-DRO-	MBLK		11/4/2021 11:13:	1	160878	11/1/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		0		0	0	0	0.0389	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		0.071		0.1	0	0	0.000336	0.002	0	71%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1634955		0.2	0	0	0.000429	0.002	0	82%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14833128	B21110057-004	HC-8015-DRO-	SAMP		11/4/2021 11:56:	1	160878	11/1/2021 3:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		0		0	0	0	0.0377719	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0853509	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.0319459	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.0665		0.0971	0	0	0.0003263	0.001942	0	68%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1344774		0.1942	0	0	0.0004166	0.001942	0	69%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14833129	B21110057-003	HC-8015-DRO-	SAMP		11/5/2021 12:39:	1	160878	11/1/2021 3:	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	0.039289	0.303	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0		0	0	0	0.088779	0.303	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L			0		0	0	0	0.033229	0.303	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.0692		0.101	0	0	0.0003394	0.00202	0	69%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1533163		0.202	0	0	0.0004333	0.00202	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					
14833130	B21110057-001	HC-8015-DRO-	SAMP		11/5/2021 1:22:1	1	160878	11/1/2021 3:	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			0.07827552		0	0	0	0.039678	0.306	0	0%	0	0	0%	J
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0		0	0	0	0.089658	0.306	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L			0.08847097		0	0	0	0.033558	0.306	0	0%	0	0	0%	J
n-Triacontane (SGT)	S	mg/L		0.0734		0.102	0	0	0.0003427	0.00204	0	72%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1287887		0.204	0	0	0.0004376	0.00204	0	63%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14833131	B21110057-002	HC-8015-DRO-	SAMP		11/5/2021 2:05:1	1	160878	11/1/2021 3:	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			0.7552887		0	0	0	0.038122	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0.10323045		0	0	0	0.086142	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons (SGT A	mg/L			0.8927249		0	0	0	0.032242	0.3	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.0618		0.098	0	0	0.0003293	0.00196	0	63%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.08774652		0.196	0	0	0.0004204	0.00196	0	45%	56	125	0%	S
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14833132	B21110079-001	HC-8015-DRO-	SAMP		11/5/2021 3:31:1	1	160878	11/1/2021 5:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to A	mg/L			0		0	0	0	0.038122	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0		0	0	0	0.086142	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L			0		0	0	0	0.032242	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.0828		0.098	0	0	0.0003293	0.00196	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					
14833132	B21110079-001	HC-8015-DRO-	SAMP		11/5/2021 3:31:1	1	160878	11/1/2021 5:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl (SGT)	S	mg/L		0.1900155		0.196	0	0	0.0004204	0.00196	0	97%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14833133	B21110079-001	HC-8015-DRO-	MS-DOD		11/5/2021 4:14:0	1	160878	11/1/2021 5:	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	A	mg/L		12.44621		14.43	0	0	0.0374218	0.3	0	86%	36	132	0%	
Total Extractable Hydrocarbons (SGT A	A	mg/L		13.27891		14.43	0	0	0.0316498	0.3	0	92%	60	132	0%	
o-Terphenyl (SGT)	S	mg/L		0.2022598		0.1924	0	0	0.0004127	0.002	0	105%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14833134	MARKER_1103	HC-8015-DRO-	SAMP		11/5/2021 7:38:2	1	R369846			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		2.243647		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.625418		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2086293		0.2	0	0	0.000429	0.002	0	104%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.243647		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					
14833151	CCV_1103HP56	HC-8015-DRO-	CCV		11/5/2021 8:21:0	1	R369846			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		4.85861230		5	0	0	0.0879	0.3	0	97%	80	120	0%	
n-Triacontane	S	mg/L		0.195553		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					
14833152	CCV_1103HP56	HC-8015-DRO-	CCV		11/5/2021 9:03:4	1	R369846			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		14.55531		15	0	0	0.0389	0.3	0	97%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.06001		15	0	0	0.0749	0.3	50	100%	80	120	0%	
o-Terphenyl	S	mg/L		0.1964225		0.2	0	0	0.000429	0.002	0	98%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14837858	B21110030-001	HC-8015-DRO-	SAMP		11/5/2021 10:30:	1	160878	11/1/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to A	mg/L			0		0	0	0	0.0377719	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0		0	0	0	0.0853509	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L			0		0	0	0	0.0319459	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.0772		0.0971	0	0	0.0003263	0.001942	0	80%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1767227		0.1942	0	0	0.0004166	0.001942	0	91%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14837859	B21110030-002	HC-8015-DRO-	SAMP		11/5/2021 11:12:	1	160878	11/1/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to A	mg/L			0.05478325		0	0	0	0.0377719	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0		0	0	0	0.0853509	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L			0.06965601		0	0	0	0.0319459	0.3	0	0%	0	0	0%	J
n-Triacontane (SGT)	S	mg/L		0.0777		0.0971	0	0	0.0003263	0.001942	0	80%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1781837		0.1942	0	0	0.0004166	0.001942	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					
14837860	B21110062-001	HC-8015-DRO-	SAMP		11/5/2021 11:55:	1	160878	11/1/2021 3:	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			0.5382241		0	0	0	0.0370328	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0		0	0	0	0.0836808	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L			0.5551806		0	0	0	0.0313208	0.3	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.0681		0.0952	0	0	0.0003199	0.001904	0	72%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1401301		0.1904	0	0	0.0004084	0.001904	0	74%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14837861	B21110062-002	HC-8015-DRO-	SAMP		11/5/2021 12:38:	1	160878	11/2/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to A	mg/L			0.6245953		0	0	0	0.0366827	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0		0	0	0	0.0828897	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L			0.6411715		0	0	0	0.0310247	0.3	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.0686		0.0943	0	0	0.0003168	0.001886	0	73%	50	150	0%	



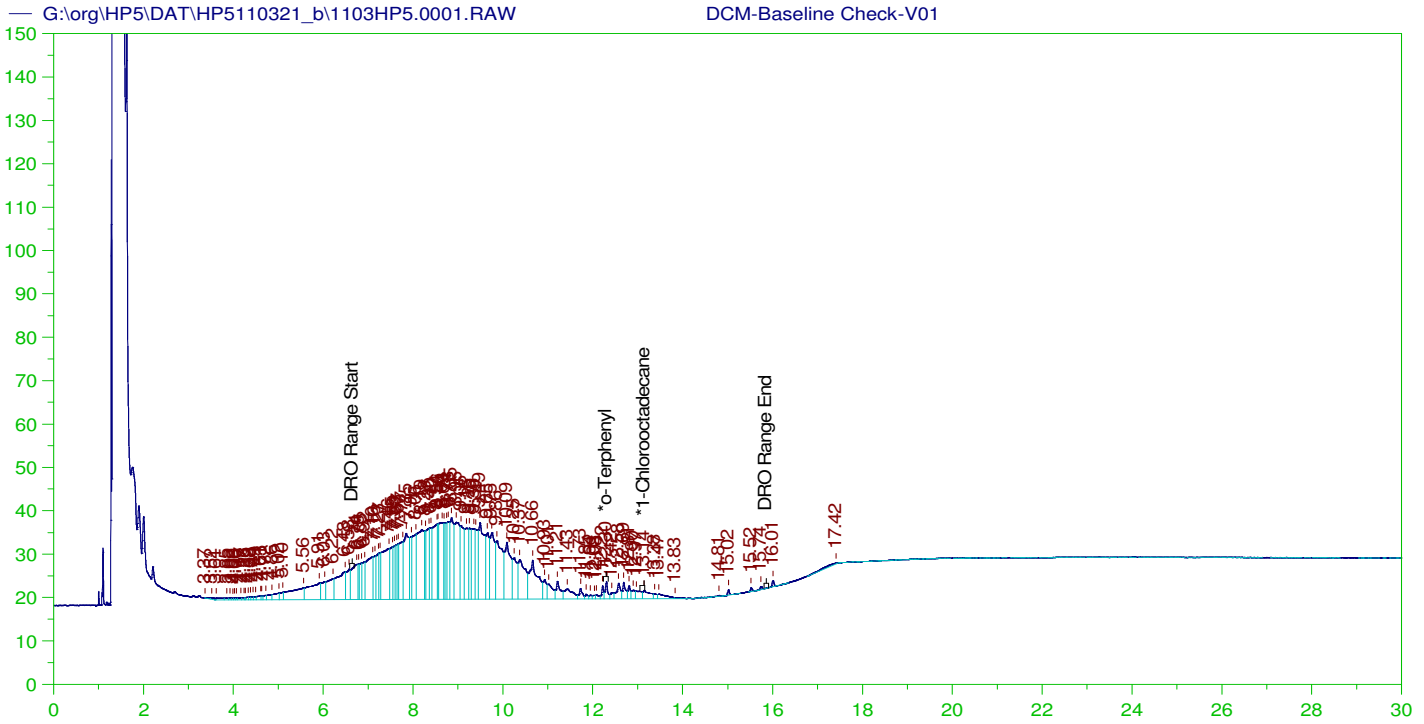
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14837861	B21110062-002	HC-8015-DRO-	SAMP		11/5/2021 12:38:	1	160878	11/2/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl (SGT)	S	mg/L		0.1471582		0.1886	0	0	0.0004045	0.001886	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					
14837862	B21110079-001	HC-8015-DRO-	MSD-DOD		11/5/2021 1:21:1	1	160878	11/1/2021 5:	1E+07	1E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to A	mg/L			13.09413		14.7	0	12.44621	0.038122	0.3	0	89%	36	132	5%	
Total Extractable Hydrocarbons (SGT A	mg/L			13.90817		14.7	0	13.27891	0.032242	0.3	0	95%	60	132	5%	
o-Terphenyl (SGT)	S	mg/L		0.2101898		0.196	0	0	0.0004204	0.002	0	107%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14837863	B21110079-001	HC-8015-DRO-	MS-DOD		11/5/2021 2:04:0	1	160878	11/1/2021 5:	1E+07	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH (SGT-Oil Range)	A	mg/L		4.38410044		4.76	0	0	0.0836808	0.3	0	92%	41	113	0%	
n-Triacontane (SGT)	S	mg/L		0.0813		0.0952	0	0	0.0003199	0.002	0	85%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14837864	B21110079-001	HC-8015-DRO-	MSD-DOD		11/5/2021 3:29:2	1	160878	11/1/2021 5:	1E+07	1E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH (SGT-Oil Range)	A	mg/L		4.13950920		4.715	0	4.3841004	0.0828897	0.3	0	88%	41	113	6%	
n-Triacontane (SGT)	S	mg/L		0.0739		0.0943	0	0	0.0003168	0.002	0	78%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14837865	LCS-160878-RR	HC-8015-DRO-	LCS-DOD		11/5/2021 4:55:0	1	160878	11/1/2021 1	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH (SGT-Oil Range)	A	mg/L		4.36826944		5	0	0	0.0879	0.3	0	87%	41	113	0%	
n-Triacontane (SGT)	S	mg/L		0.0784		0.1	0	0	0.000336	0.002	0	78%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14837866	MARKER_1103	HC-8015-DRO-	SAMP		11/5/2021 6:20:2	1	R369846		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		2.358505		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.810924		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		0.2190288		0.2	0	0	0.000429	0.002	0	110%	50	150	0%	
Diesel Range Organics (C10 to C24)	X	mg/L		2.358505		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					
14837867	CCV_1103HP57	HC-8015-DRO-	CCV		11/5/2021 7:03:0	1	R369846		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		5.03779785		5	0	0	0.0879	0.3	0	101%	80	120	0%	
n-Triacontane	S	mg/L		0.2026929		0.2	0	0	0.000336	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					
14837868	CCV_1103HP57	HC-8015-DRO-	CCV		11/5/2021 7:46:0	1	R369846		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		14.14374		15	0	0	0.0389	0.3	0	94%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.6334		15	0	0	0.0749	0.3	50	98%	80	120	0%	
o-Terphenyl	S	mg/L		0.1914056		0.2	0	0	0.000429	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					
14837869	B21110015-001	HC-8015-DRO-	SAMP		11/5/2021 11:21:	1	160878	11/1/2021 3:	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		0.0635		0.0952	0	0	0.0003199	0.001904	0	67%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1494748		0.1904	0	0	0.0004084	0.001904	0	79%	56	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14837870	MARKER_1103	HC-8015-DRO-	SAMP		11/6/2021 5:07:4	1	R369846		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					
14837870	MARKER_1103	HC-8015-DRO-	SAMP		11/6/2021 5:07:4	1	R369846		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		2324.288		0	0	0	0.0389	0.3	50	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3755.426		0	0	0	0.0749	0.3	50	0%	0	0	0%	
o-Terphenyl	S	mg/L		215.7336		0.2	0	0	0.000429	0.002	0	107867%	50	150	0%	S
Diesel Range Organics (C10 to C24)	X	mg/L		2324.288		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					
14837871	CCV_1103HP59	HC-8015-DRO-	CCV		11/6/2021 5:50:4	1	R369846		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		5.05575098		5	0	0	0.0879	0.3	0	101%	80	120	0%	
n-Triacontane	S	mg/L		0.2052348		0.2	0	0	0.000336	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					
14837872	CCV_1103HP59	HC-8015-DRO-	CCV		11/6/2021 6:34:0	1	R369846		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		14.51818		15	0	0	0.0389	0.3	0	97%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.0165		15	0	0	0.0749	0.3	50	100%	80	120	0%	
o-Terphenyl	S	mg/L		0.1981343		0.2	0	0	0.000429	0.002	0	99%	80	120	0%	

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\org\HP5\DAT\HP5110321_b1103HP5.01r	b1103HP5.01r	DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.02r	b1103HP5.02r	DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.03r	b1103HP5.03r	MARKER_1103HP503r, DRO ;1103HP5 ,DRO210708A	G:\Org\HP5\Methods\CSC211103.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.04r	b1103HP5.04r	MARKER_1103HP504r, DRO ;1103HP5 ,DRO211012I	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.05r	b1103HP5.05r	CCV_1103HP505r, RRO ;1103HP5 ,DRO211008A	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.06r	b1103HP5.06r	CCV_1103HP506r, DRO ;1103HP5 ,DRO211103A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.07r	b1103HP5.07r	DCM-Baseline Check-V07	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.08r	b1103HP5.08r	LCS-160878 ;1103HP5 ,	G:\Org\HP5\Methods\D3_8015-24-IA-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.09r	b1103HP5.09r	MB-160878 ;1103HP5 ,	G:\Org\HP5\Methods\DS_8015-24-IA-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.10r	b1103HP5.10r	B21110057-007A ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.11r	b1103HP5.11r	B21110057-006A ;1103HP5 , \$HC-8015-DRO-W, don't use	G:\Org\HP5\Methods\DR_8015-C24T-IA-L0.met	1020	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.12r	b1103HP5.12r	B21110057-005A ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.13r	b1103HP5.13r	B21110057-006A ;1103HP5 , \$HC-8015-DRO-W, RR to verify	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1020	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.14r	b1103HP5.14r	B21110057-004A ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IA-L%.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.15r	b1103HP5.15r	B21110057-003A ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_OROS-AC-L%.MET	990	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.16r	b1103HP5.16r	B21110057-002A ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DS_8015-C24T-IA-L%.MET	1020	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.17r	b1103HP5.17r	B21110057-001A ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IA-L%.met	980	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.18r	b1103HP5.18r	MARKER_1103HP518r, DRO ;1103HP5 ,DRO210708A	G:\Org\HP5\Methods\CSC211103.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.19r	b1103HP5.19r	MARKER_1103HP519r, DRO ;1103HP5 ,DRO211012I	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.20r	b1103HP5.20r	CCV_1103HP520r, RRO ;1103HP5 ,DRO211008A	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.21r	b1103HP5.21r	CCV_1103HP521r, DRO ;1103HP5 ,DRO211103A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.22r	b1103HP5.22r	DCM-Baseline Check-V22	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.23r	b1103HP5.23r	B21110079-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1020	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.24r	b1103HP5.24r	B21110079-001BMS ;1103HP5 ,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1040	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.25r	b1103HP5.25r	B21110079-001BMSD ;1103HP5 ,	G:\Org\HP5\Methods\D3_8015-24-IA-L%.met	1020	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.26r	b1103HP5.26r	DCM-Baseline Check-V26	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.27r	b1103HP5.27r	B21110079-001BMS-RRO ;1103HP5 ,	G:\Org\HP5\Methods\D3_ORO-AC-L%.MET	1050	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.28r	b1103HP5.28r	DCM-Baseline Check-V28	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.29r	b1103HP5.29r	B21110079-001BMSD-RRO ;1103HP5 ,	G:\Org\HP5\Methods\D3_ORO-AC-L%.MET	1060	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.30r	b1103HP5.30r	DCM-Baseline Check-V30	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.31r	b1103HP5.31r	LCS-160878-RRO ;1103HP5 ,	G:\Org\HP5\Methods\D3_ORO-AC-L%.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.32r	b1103HP5.32r	MARKER_1103HP532r, DRO ;1103HP5 ,DRO210708A	G:\Org\HP5\Methods\CSC211103.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.33r	b1103HP5.33r	MARKER_1103HP533r, DRO ;1103HP5 ,DRO211012I	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.34r	b1103HP5.34r	CCV_1103HP534r, RRO ;1103HP5 ,DRO211008A	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.35r	b1103HP5.35r	CCV_1103HP535r, DRO ;1103HP5 ,DRO211103A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.36r	b1103HP5.36r	DCM-Baseline Check-V36	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.37r	b1103HP5.37r	DCM-Baseline Check-V37	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.38r	b1103HP5.38r	B21110045-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1040	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.39r	b1103HP5.39r	B21110015-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.40r	b1103HP5.40r	B21110021-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1055	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.41r	b1103HP5.41r	B21110030-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.42r	b1103HP5.42r	B21110030-002B ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.43r	b1103HP5.43r	B21110062-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.44r	b1103HP5.44r	B21110062-002B ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IA-L%.met	1060	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.45r	b1103HP5.45r	B21110079-002B ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_OROS-AC-L%.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.46r	b1103HP5.46r	B21110079-003B ;1103HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1010	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.47r	b1103HP5.47r	MARKER_1103HP547r, DRO ;1103HP5 ,DRO210708A	G:\Org\HP5\Methods\CSC211103.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.48r	b1103HP5.48r	MARKER_1103HP548r, DRO ;1103HP5 ,DRO211012I	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.49r	b1103HP5.49r	CCV_1103HP549r, RRO ;1103HP5 ,DRO211008A	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.50r	b1103HP5.50r	CCV_1103HP550r, DRO ;1103HP5 ,DRO211103A	G:\Org\HP5\Methods\DC_8015-24-IA-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\HP5110321_b1103HP5.47r	b1103HP5.47r	MARKER_1103HP547r; DRO ;1103HP5 , DRO210708A	G:\Org\HP5\Methods\CSC211103.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.48r	b1103HP5.48r	MARKER_1103HP548r; DRO ;1103HP5 , DRO211012I	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.49r	b1103HP5.49r	CCV_1103HP549r; RRO ;1103HP5 , DRO211008A	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.50r	b1103HP5.50r	CCV_1103HP550r; DRO ;1103HP5 , DRO211103A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.51r	b1103HP5.51r	DCM-Baseline Check-V51	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.52r	b1103HP5.52r	LCS-160878 ;1103HP5 , SGT	G:\Org\HP5\Methods\D3_8015-24-IA-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.53r	b1103HP5.53r	MB-160878 ;1103HP5 , SGT	G:\Org\HP5\Methods\DS_8015-24-IA-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.54r	b1103HP5.54r	B21110057-004A ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.55r	b1103HP5.55r	B21110057-003A ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_OROSb-AC-L%.MET	990	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.56r	b1103HP5.56r	B21110057-001A ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24Tb-IA-L%.MET	980	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.57r	b1103HP5.57r	B21110057-002A ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1020	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.58r	b1103HP5.58r	DCM-Baseline Check-V58	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.59r	b1103HP5.59r	B21110079-001B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1020	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.60r	b1103HP5.60r	B21110079-001BMS ;1103HP5 , SGT	G:\Org\HP5\Methods\DR_OROSb-AC-L%.MET	1040	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.61r	b1103HP5.61r	MARKER_1103HP562r; DRO ;1103HP5 , DRO210708A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.62r	b1103HP5.62r	MARKER_1103HP563r; DRO ;1103HP5 , DRO211012I	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.63r	b1103HP5.63r	CCV_1103HP564r; RRO ;1103HP5 , DRO211008A	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.64r	b1103HP5.64r	CCV_1103HP565r; DRO ;1103HP5 , DRO211103A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.65r	b1103HP5.65r	DCM-Baseline Check-V65	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.66r	b1103HP5.66r	B21110030-001B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.67r	b1103HP5.67r	B21110030-002B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_OROSb-AC-L%.MET	1030	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.68r	b1103HP5.68r	B21110062-001B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24Tb-IA-L%.MET	1050	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.69r	b1103HP5.69r	B21110062-002B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-68-C24T-IA-L%.met	1060	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.70r	b1103HP5.70r	B21110079-001BMSD ;1103HP5 , SGT	G:\Org\HP5\Methods\DR_OROSb-AC-L%.MET	1020	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.71r	b1103HP5.71r	B21110079-001BMS-RRO ;1103HP5 , SGT	G:\Org\HP5\Methods\DR_8015-70-24-IA-L%.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.72r	b1103HP5.72r	DCM-Baseline Check-V72	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.73r	b1103HP5.73r	B21110079-001BMSD-RRO ;1103HP5 , SGT	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1060	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.74r	b1103HP5.74r	DCM-Baseline Check-V74	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.75r	b1103HP5.75r	LCS-160878-RRO ;1103HP5 , SGT	G:\Org\HP5\Methods\D3_ORO-AC-L%.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.76r	b1103HP5.76r	MARKER_1103HP576r; DRO ;1103HP5 , DRO210708A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.77r	b1103HP5.77r	MARKER_1103HP577r; DRO ;1103HP5 , DRO211012I	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.78r	b1103HP5.78r	CCV_1103HP578r; RRO ;1103HP5 , DRO211008A	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.79r	b1103HP5.79r	CCV_1103HP579r; DRO ;1103HP5 , DRO211103A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.80r	b1103HP5.80r	DCM-Baseline Check-V80	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.84r	b1103HP5.84r	B21110015-001B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.91r	b1103HP5.91r	MARKER_1103HP591r; DRO ;1103HP5 , DRO210708A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.92r	b1103HP5.92r	MARKER_1103HP592r; DRO ;1103HP5 , DRO211012I	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.93r	b1103HP5.93r	CCV_1103HP593r; RRO ;1103HP5 , DRO211008A	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5110321_b1103HP5.94r	b1103HP5.94r	CCV_1103HP594r; DRO ;1103HP5 , DRO211103A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

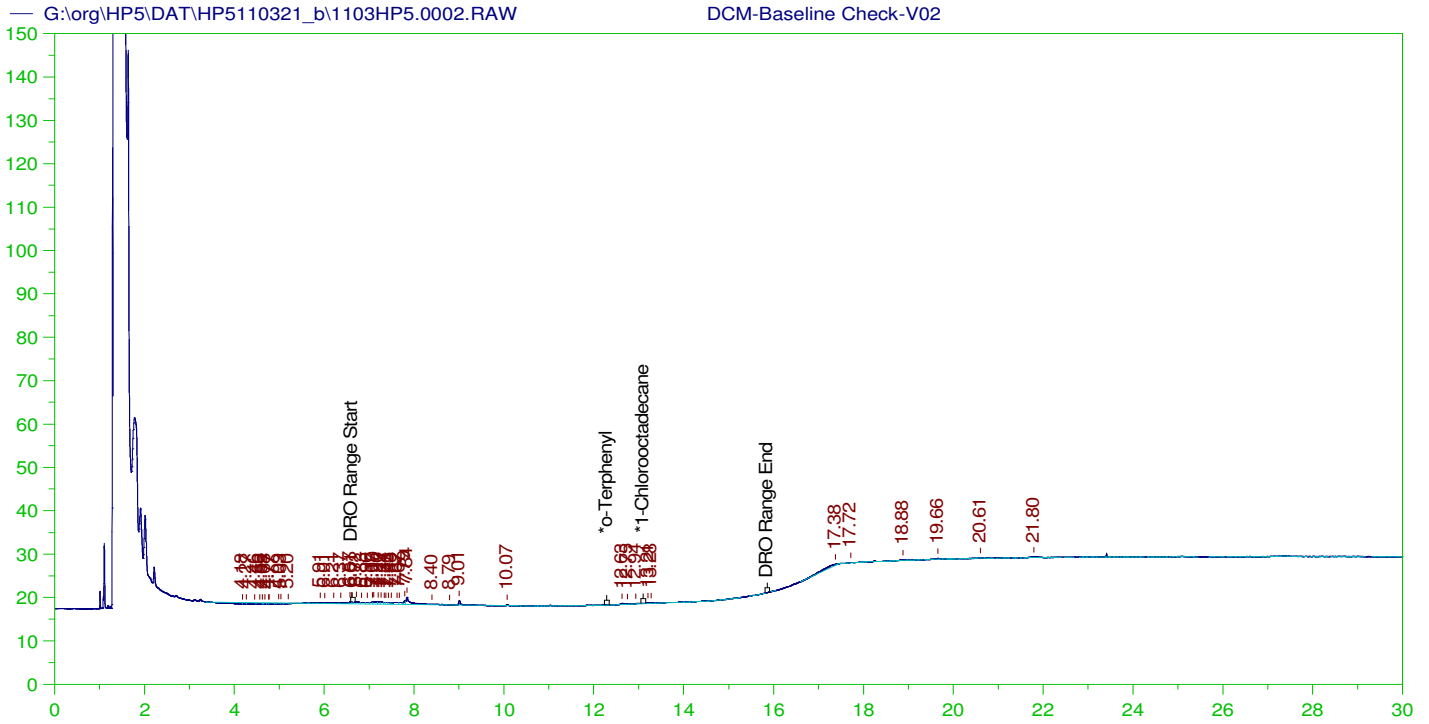
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 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.3	200.	.436	.22	-
*1-Chlorooctadecane	13.145	200.	.572	.29	-

DRO Area:3515296 DRO Amount: 112.1192  
 TEH Area:3939116 TEH Amount: 125.6368



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

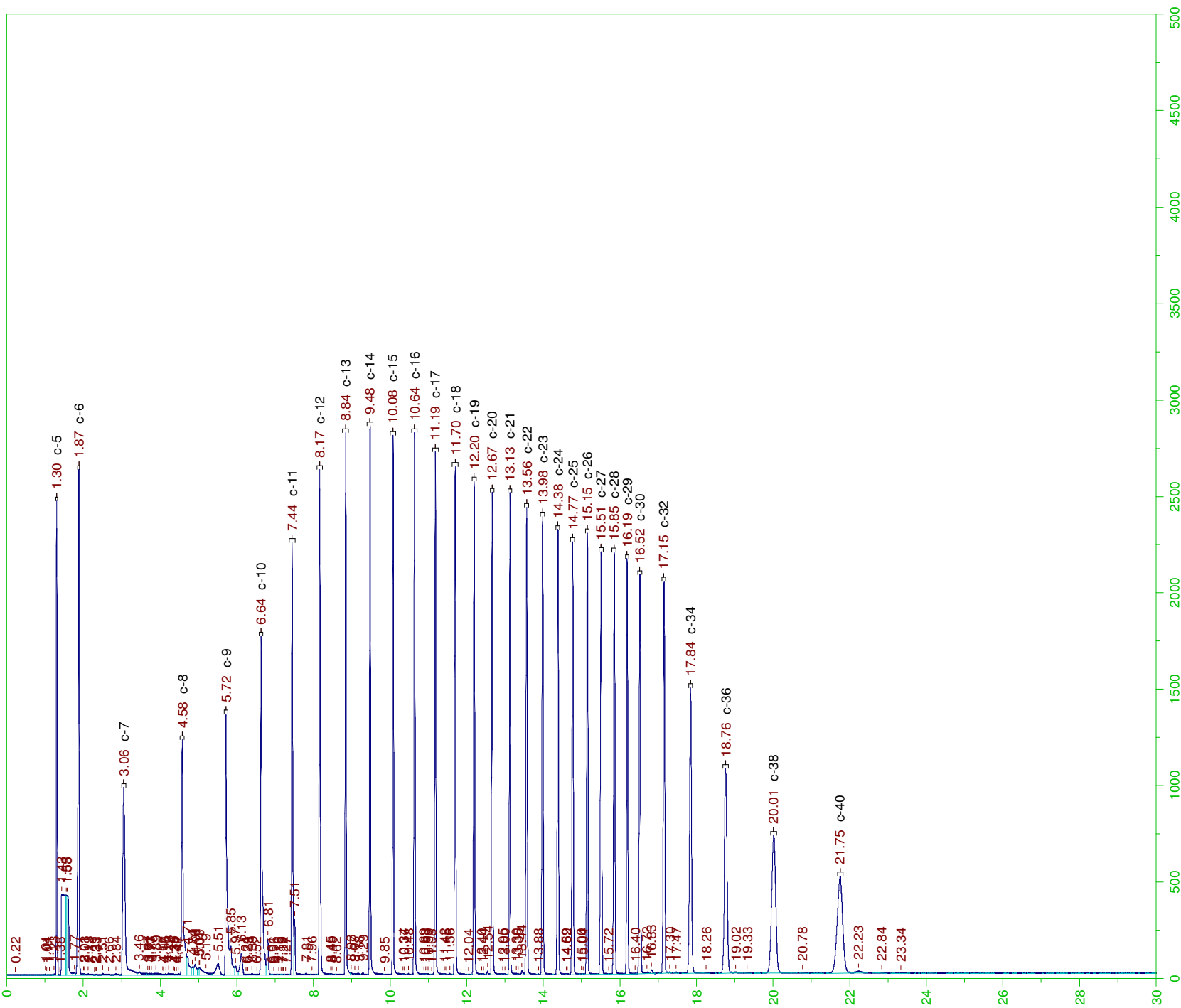
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 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

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

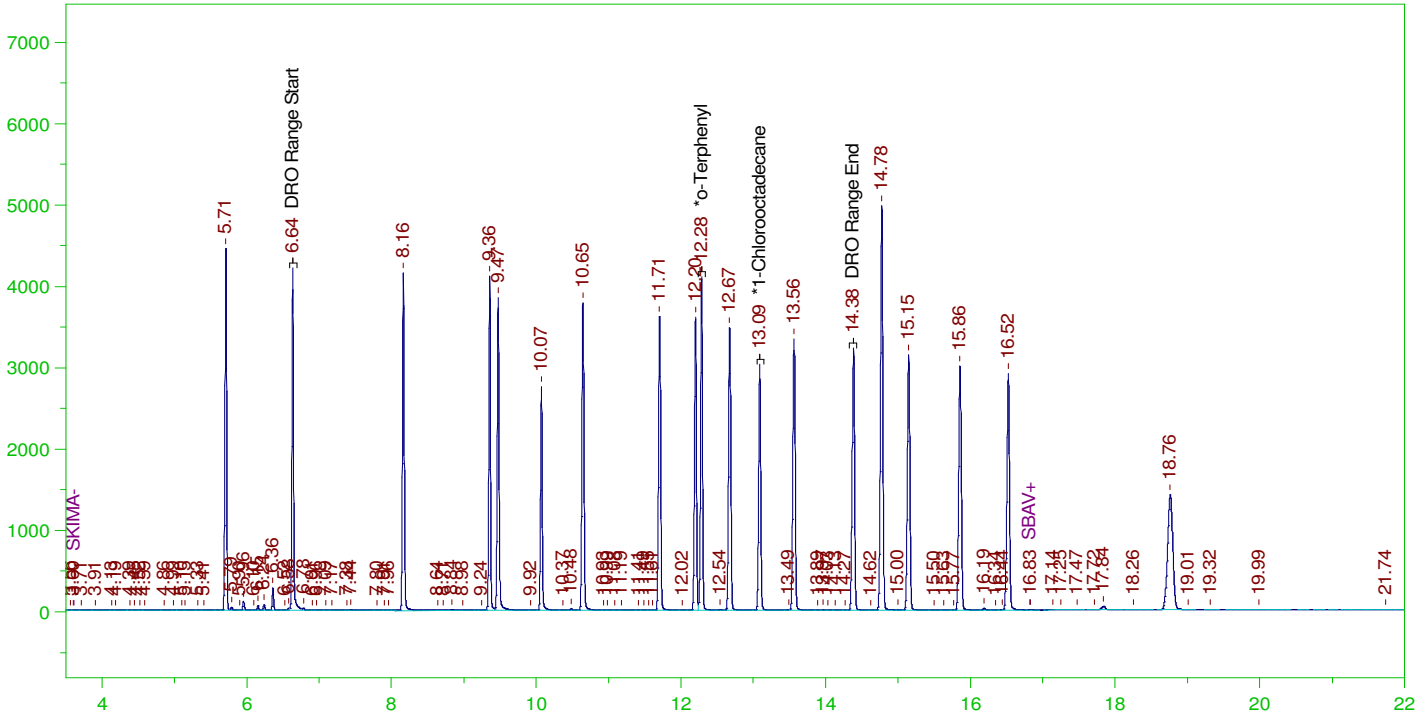
DRO Area:58991.95 DRO Amount: 1.881529  
 TEH Area:116751.5 TEH Amount: 3.723751





G:\org\HP5\DAT\HP5110321\_b\1103HP5.0004.RAW

MARKER\_1103HP504r, DRO ;1103HP5 , DRO211012I



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

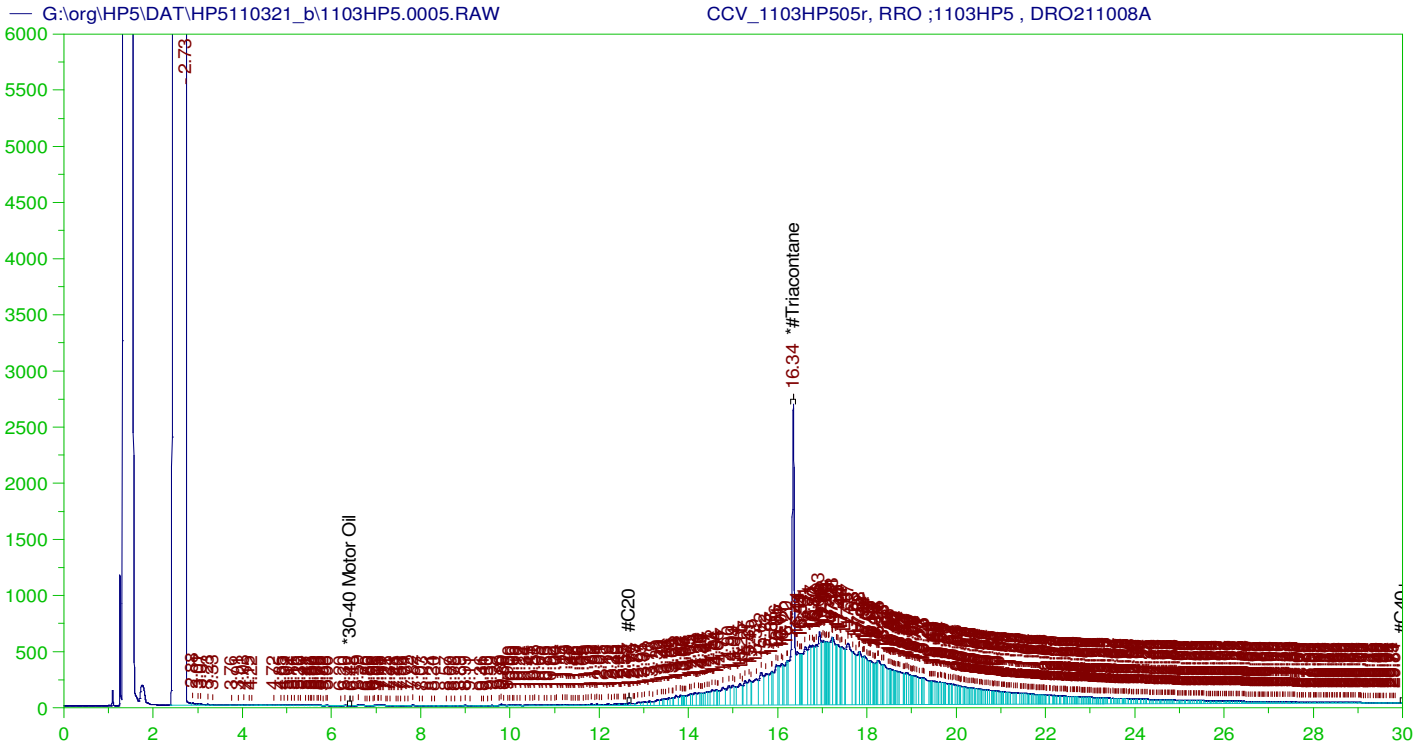
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 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.285	.2	.222	110.86
*1-Chlorooctadecane	13.088	.2	.179	89.39

DRO Area: 7.626389E+07 DRO Amount: 2.432412  
 TEH Area: 1.254689E+08 TEH Amount: 4.001791



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP505r, RRO ;1103HP5 , DRO211008A  
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 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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.345	500.	343.071	68.61	-

~~RRO~~ TEH (Oil Range) Area:1.373061E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 4810.599

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0005.RAW

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

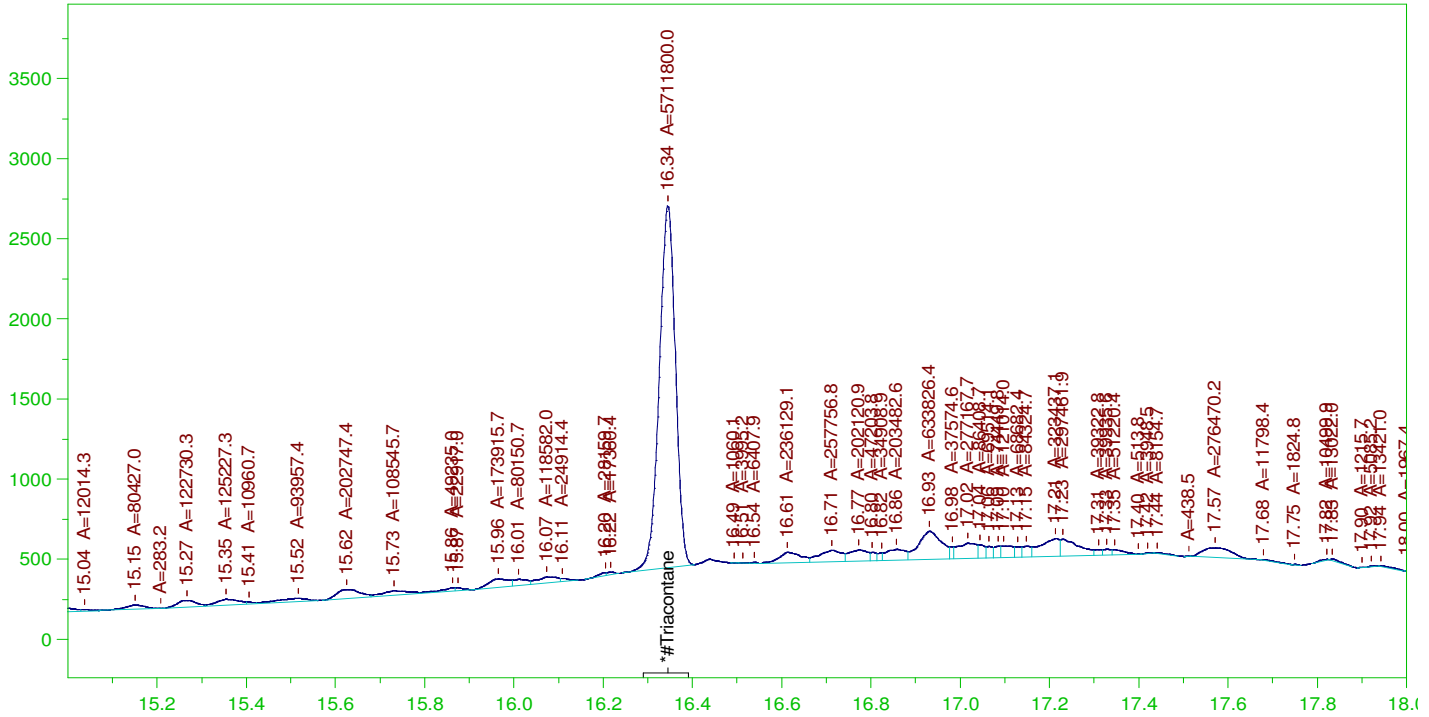
  

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.345	200.	343.071	171.54	75-125

AMN 11/16/2021

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0005.RAW

CCV\_1103HP505r, RRO ;1103HP5 , DRO211008A



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP505r, RRO ;1103HP5 , DRO211008A  
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 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.345	500.	197.434	39.49	-

RRO Area:6071197 RRO AMOUNT: 212.7079

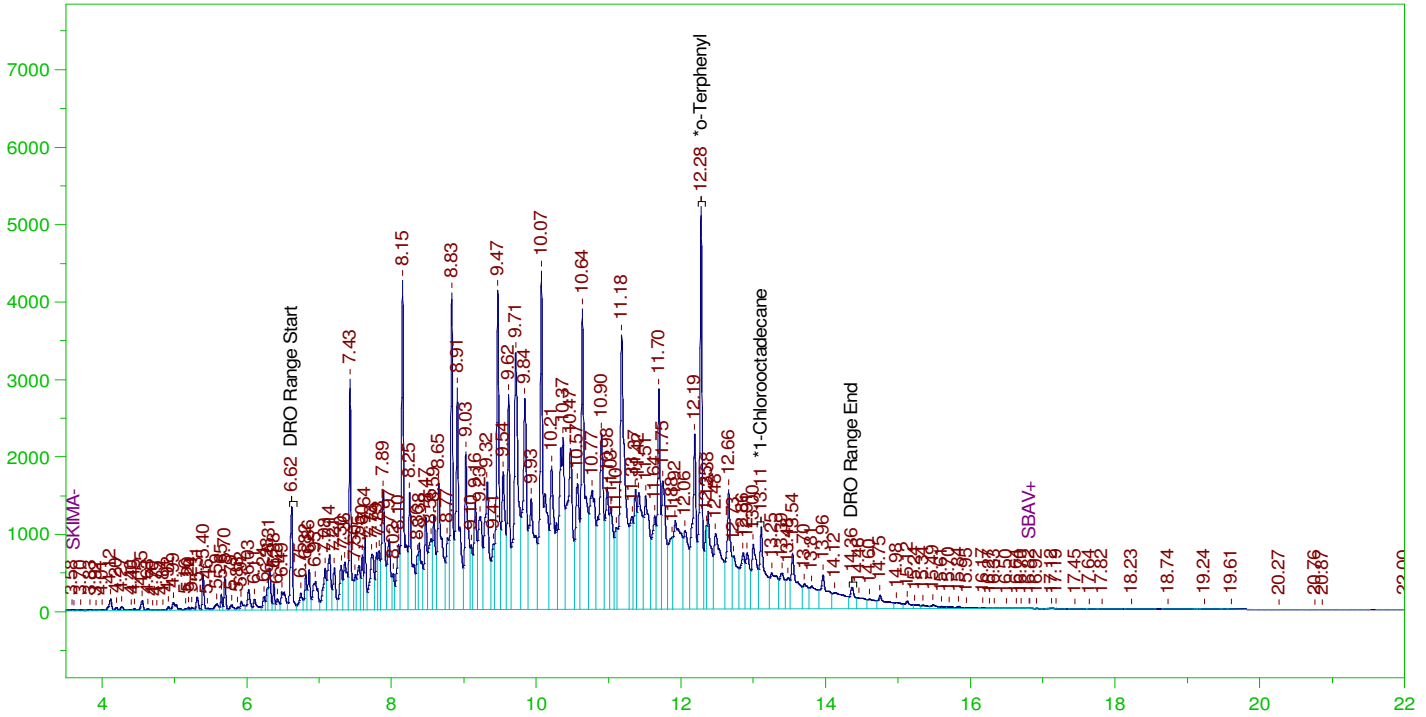
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COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.051	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.345	200.	197.434	98.72	75-125

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0006.RAW

CCV\_1103HP506r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP506r, DRO ;1103HP5 , DRO211103A  
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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 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.277	200.	361.079	180.54
*1-Chlorooctadecane	13.111	200.	150.051	75.03

DRO Area: 4.283294E+08 DRO Amount: 13661.43  
 TEH Area: 4.449878E+08 TEH Amount: 14192.74

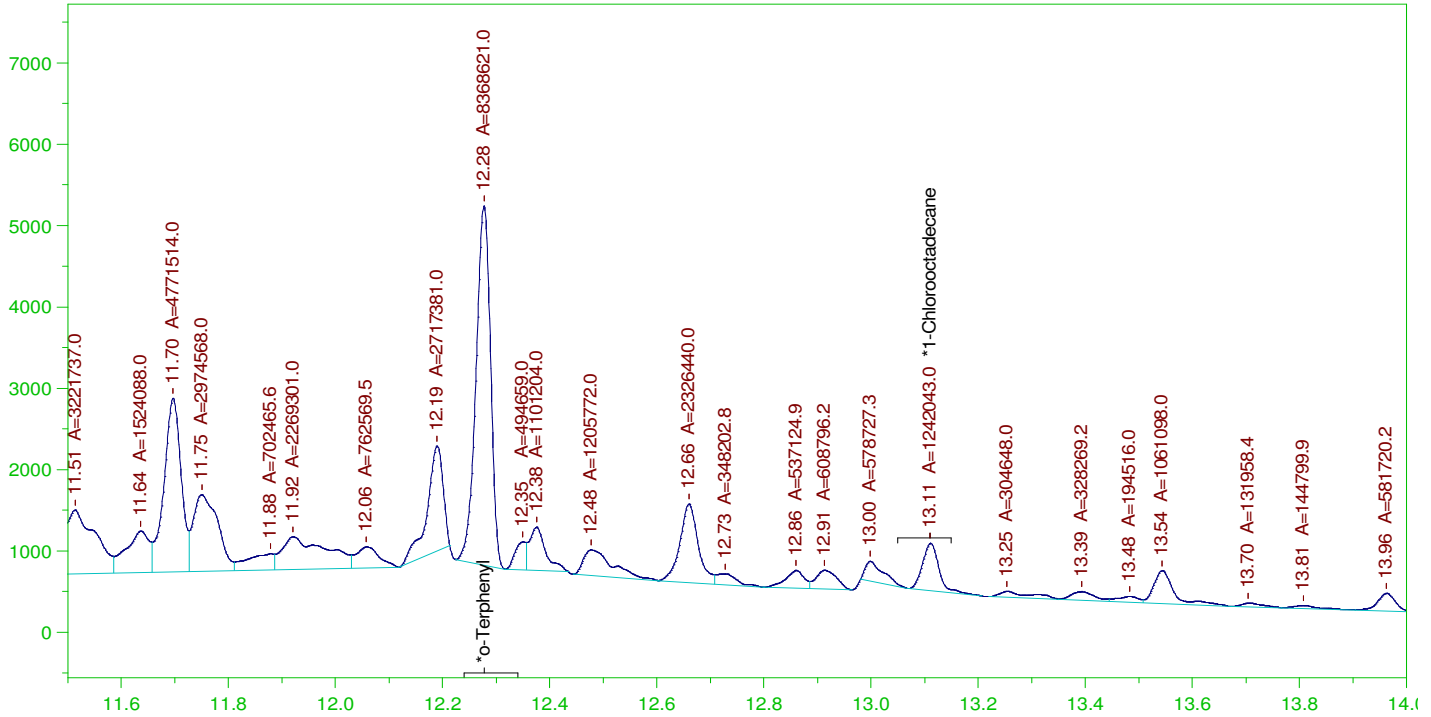
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0006.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14192.74	94.62	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.277	200.	361.079	180.54	85-115
*1-Chlorooctadecane	13.111	200.	150.051	75.03	85-115

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0006.RAW

CCV\_1103HP506r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP506r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0006.RAW  
 Date & Time Acquired: 11/3/2021 1:28:58 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

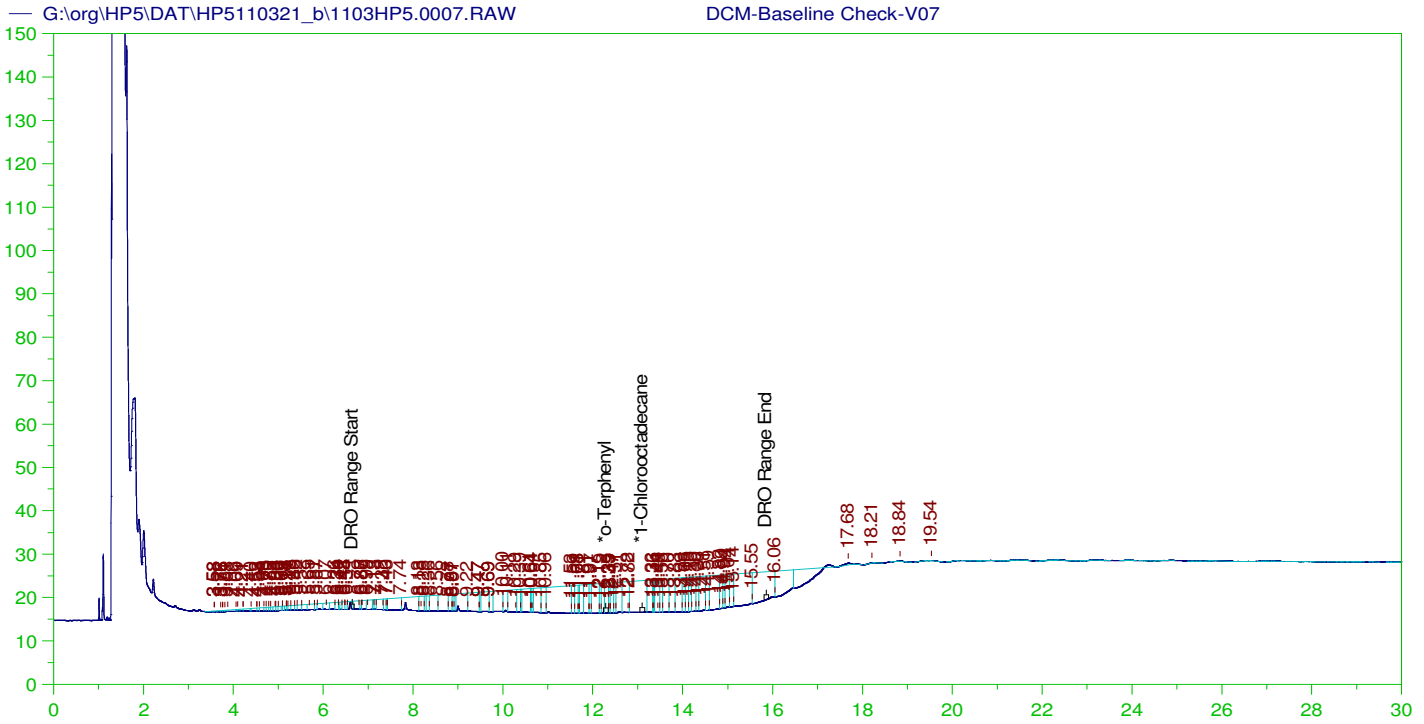
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.277	200.	235.675	117.84
*1-Chlorooctadecane	13.111	200.	34.978	17.49

DRO Area: 2.429398E+08 DRO Amount: 7748.487  
 TEH Area: 2.529251E+08 TEH Amount: 8066.965

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0006.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8066.97	53.78	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.277	200.	235.675	117.84	85-115
*1-Chlorooctadecane	13.111	200.	34.978	17.49	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V07  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0007.RAW  
 Date & Time Acquired: 11/3/2021 2:12:01 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

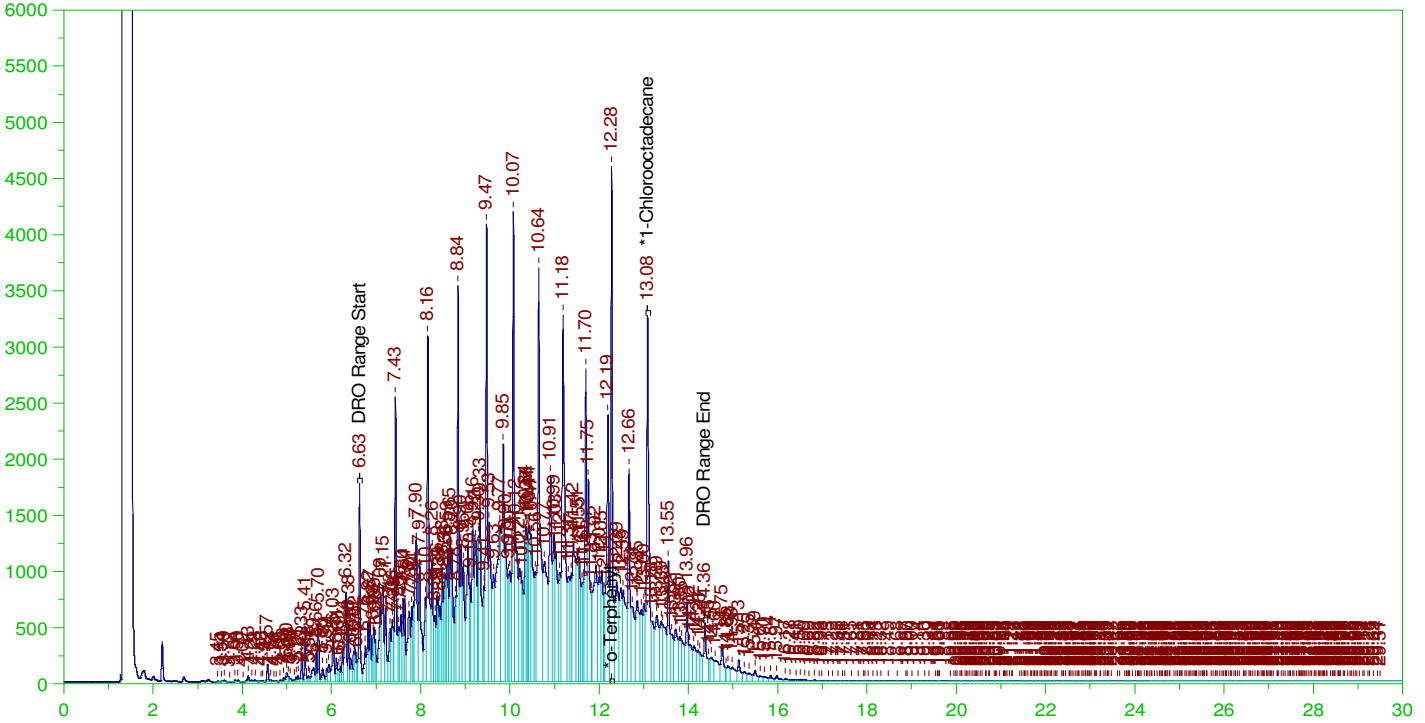
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.972	200.	.	-
*1-Chlorooctadecane	29.972	200.	.	-

DRO Area:3152285 DRO Amount: 100.5411  
 TEH Area:3372766 TEH Amount: 107.5733

Batch ID: 160878

LCS-160878 ;1103HP5 ,

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0008.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160878 ;1103HP5 ,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0008.RAW  
Date & Time Acquired: 11/3/2021 2:55:01 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-24-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

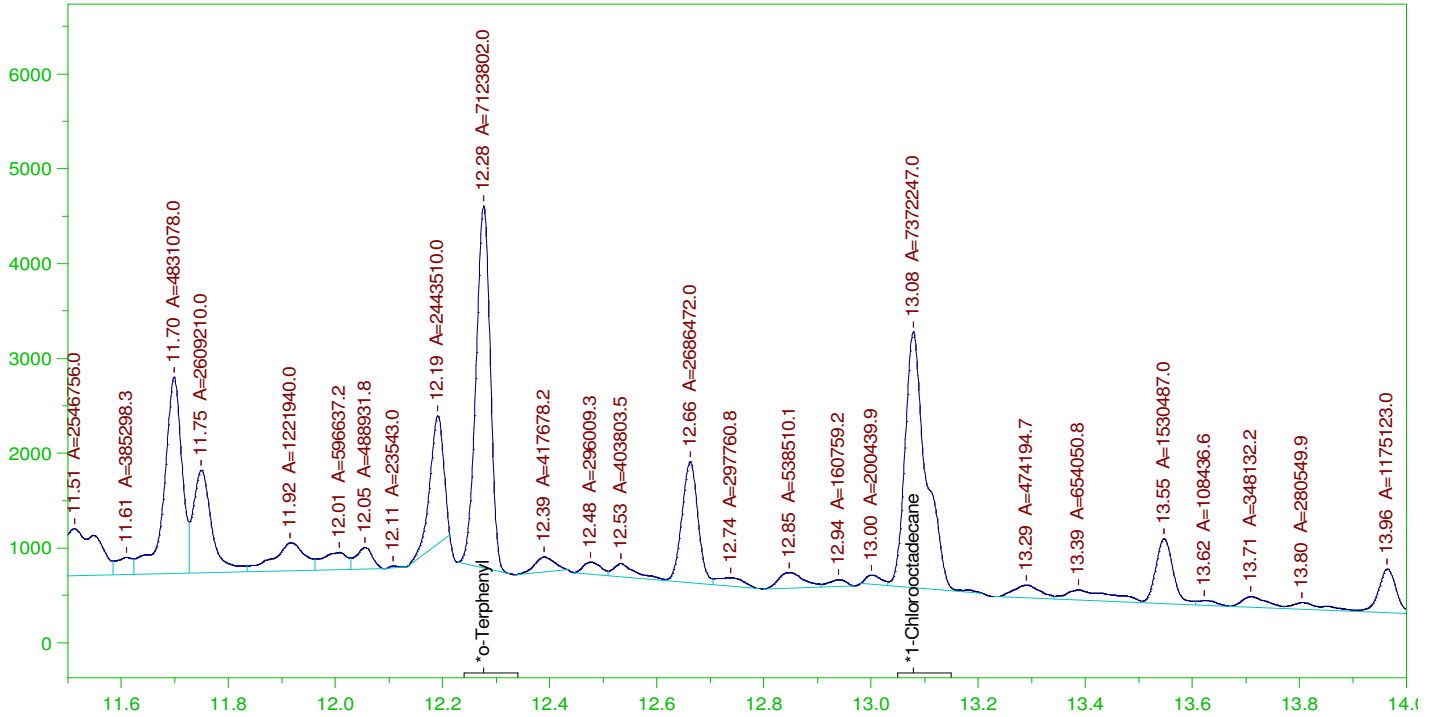
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.277	.2	.337	168.46	-
*1-Chlorooctadecane	13.079	.2	.337	168.66	-

DRO Area: 3.905796E+08 DRO Amount: 12.45741  
TEH Area: 4.176371E+08 TEH Amount: 13.3204

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0008.RAW

LCS-160878 ;1103HP5 ,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160878 ;1103HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0008.RAW  
 Date & Time Acquired: 11/3/2021 2:55:01 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.277	.2	.201	100.31
*1-Chlorooctadecane	13.079	.2	.208	103.81

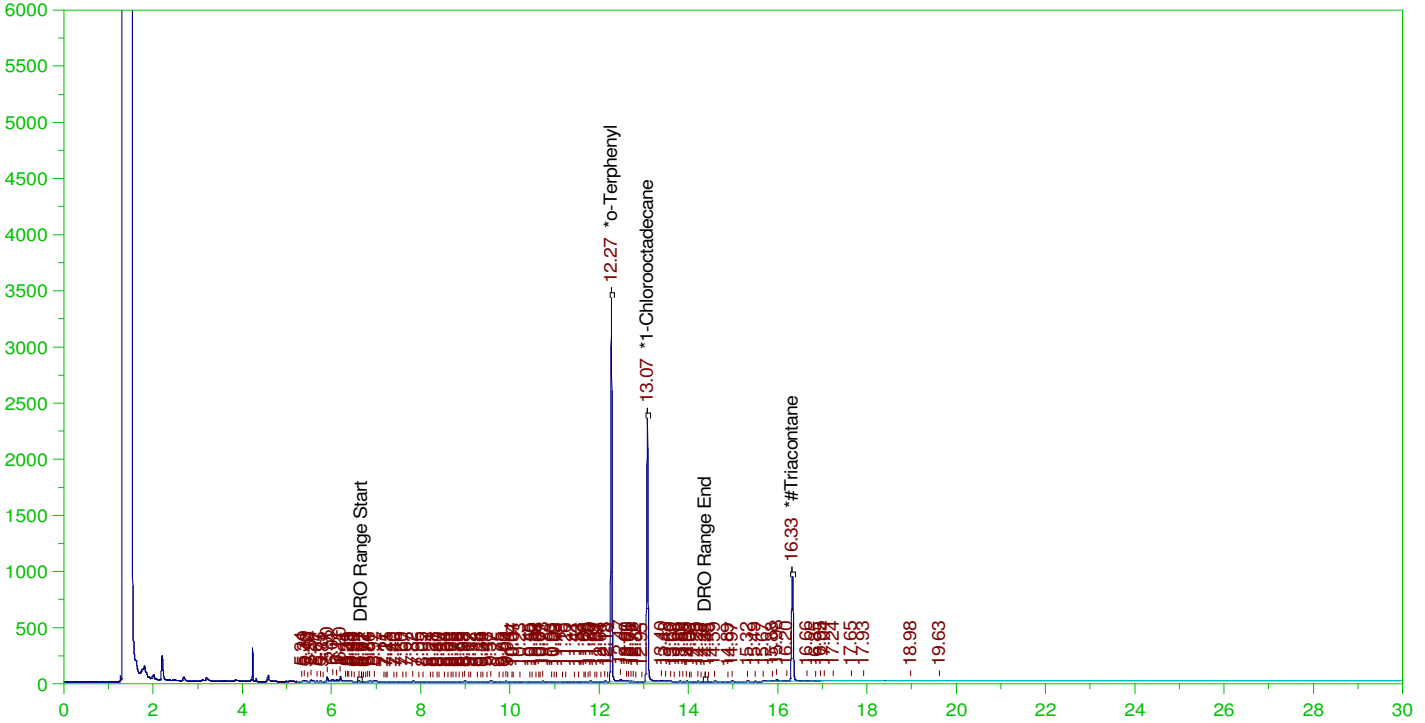
DRO Area: 1.959787E+08 DRO Amount: 6.250676  
 TEH Area: 2.096025E+08 TEH Amount: 6.685205



Batch ID: 160878

MB-160878 ;1103HP5 ,

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0009.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

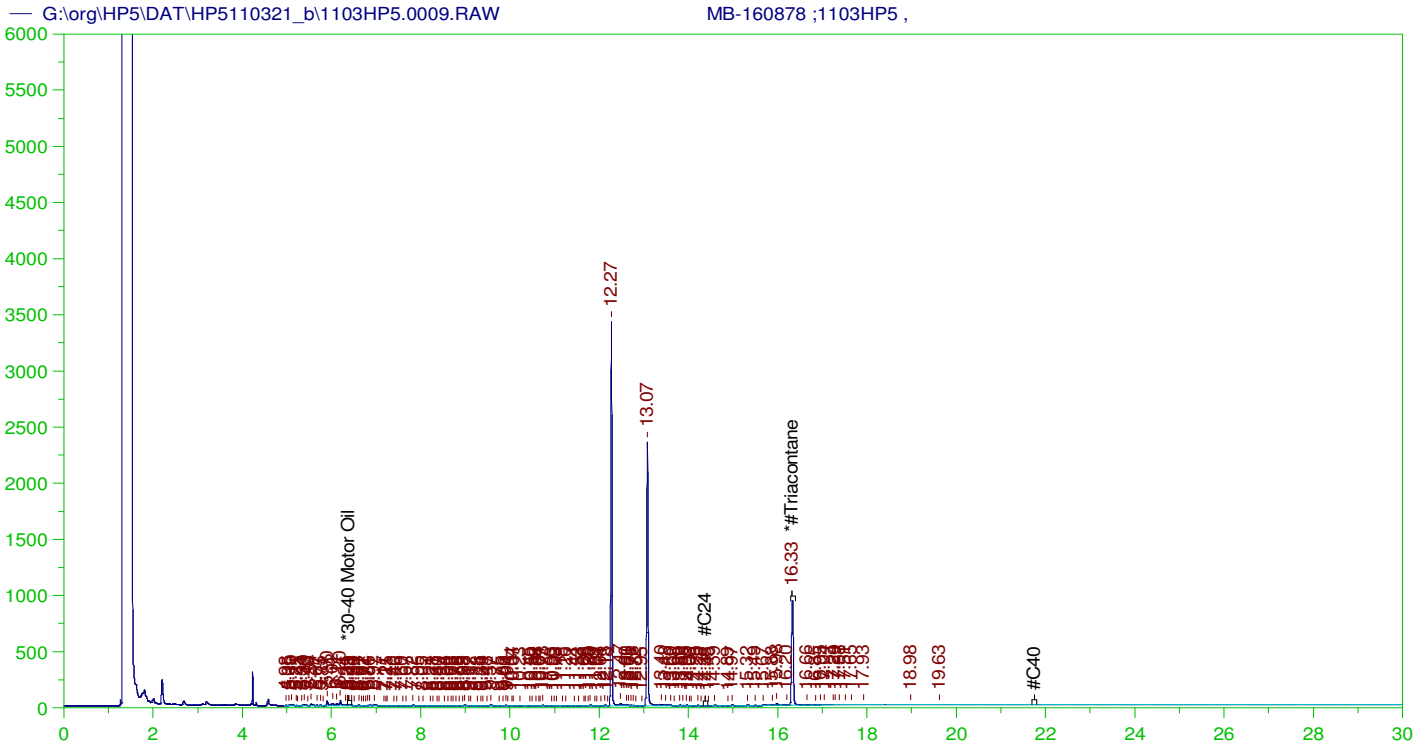
Sample Name: MB-160878 ;1103HP5 ,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0009.RAW  
Date & Time Acquired: 11/3/2021 3:38:14 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.272	.2	.184	91.91	-
*1-Chlorooctadecane	13.074	.2	.145	72.38	-
*#Triacontane	16.326	.2	.084	42.04	-

DRO Area:509292.7 DRO Amount: 1.624373E-02  
TEH Area:1112490 TEH Amount: 3.548251E-02



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160878 ;1103HP5 ,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0009.RAW  
Date & Time Acquired: 11/3/2021 3:38:14 PM  
Method File: G:\Org\HP5\Methods\DR\_OROS-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-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: 14.33 to 21.8

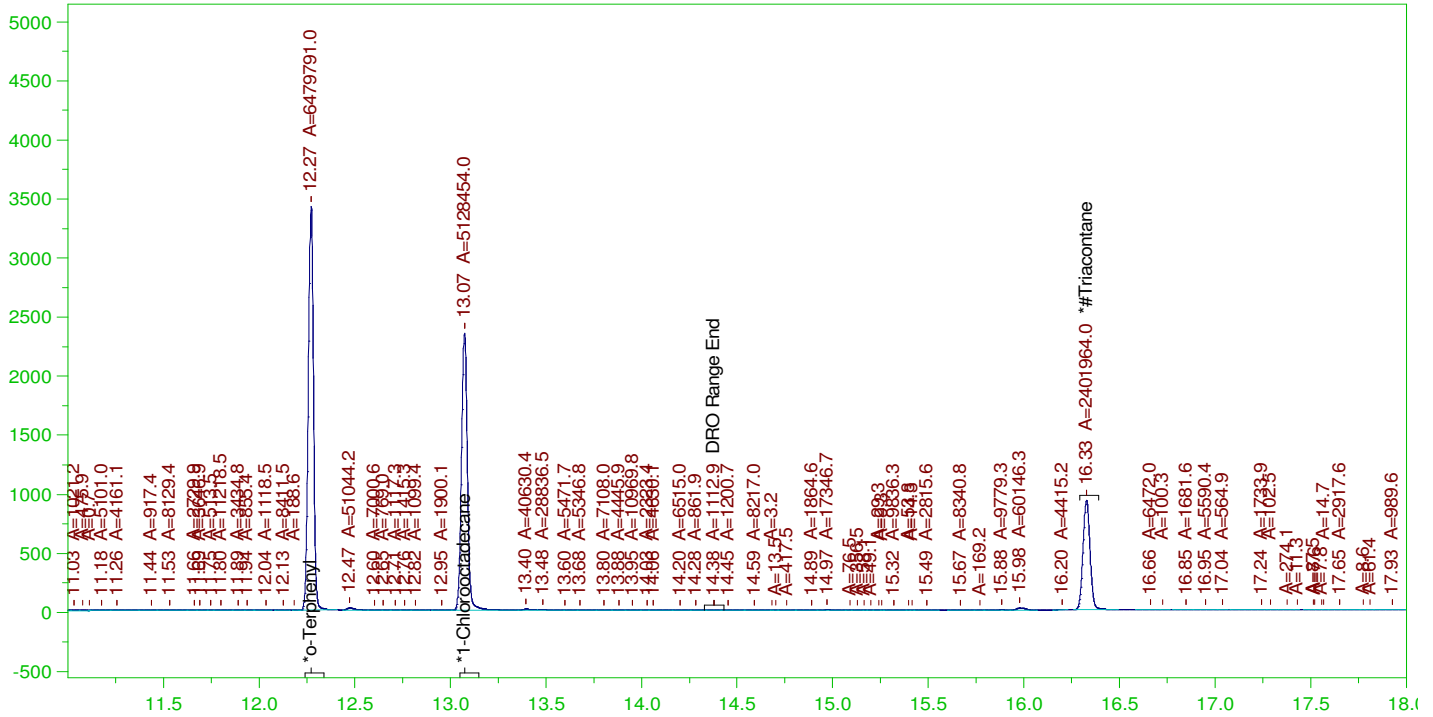
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.326	.5	.084	16.81

RRO Area:183333 RRO AMOUNT: 6.42318E-03

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0009.RAW

MB-160878 ;1103HP5 ,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160878 ;1103HP5 ,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0009.RAW  
Date & Time Acquired: 11/3/2021 3:38:14 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.272	.2	.182	91.24	-
*1-Chlorooctadecane	13.074	.2	.144	72.21	-
*#Triacontane	16.326	.2	.083	41.51	-

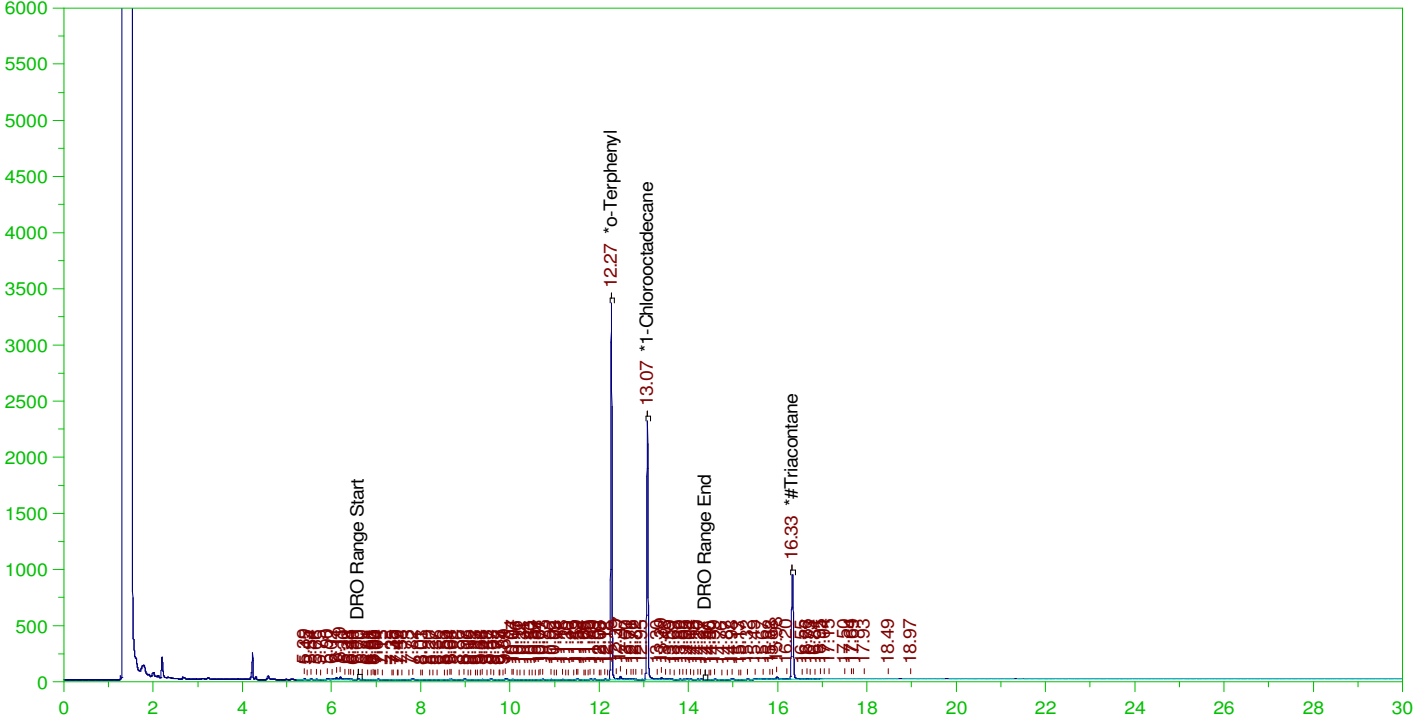
DRO Area:536125.6 DRO Amount: 1.709955E-02  
TEH Area:1952211 TEH Amount: 6.226513E-02

ERH1862 (RHSF)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0010.RAW

B21110057-007A ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-007A ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0010.RAW  
Date & Time Acquired: 11/3/2021 4:21:37 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.271	.19	.17	89.3	-
*1-Chlorooctadecane	13.075	.19	.133	70.06	-
*#Triacontane	16.326	.19	.079	41.57	-

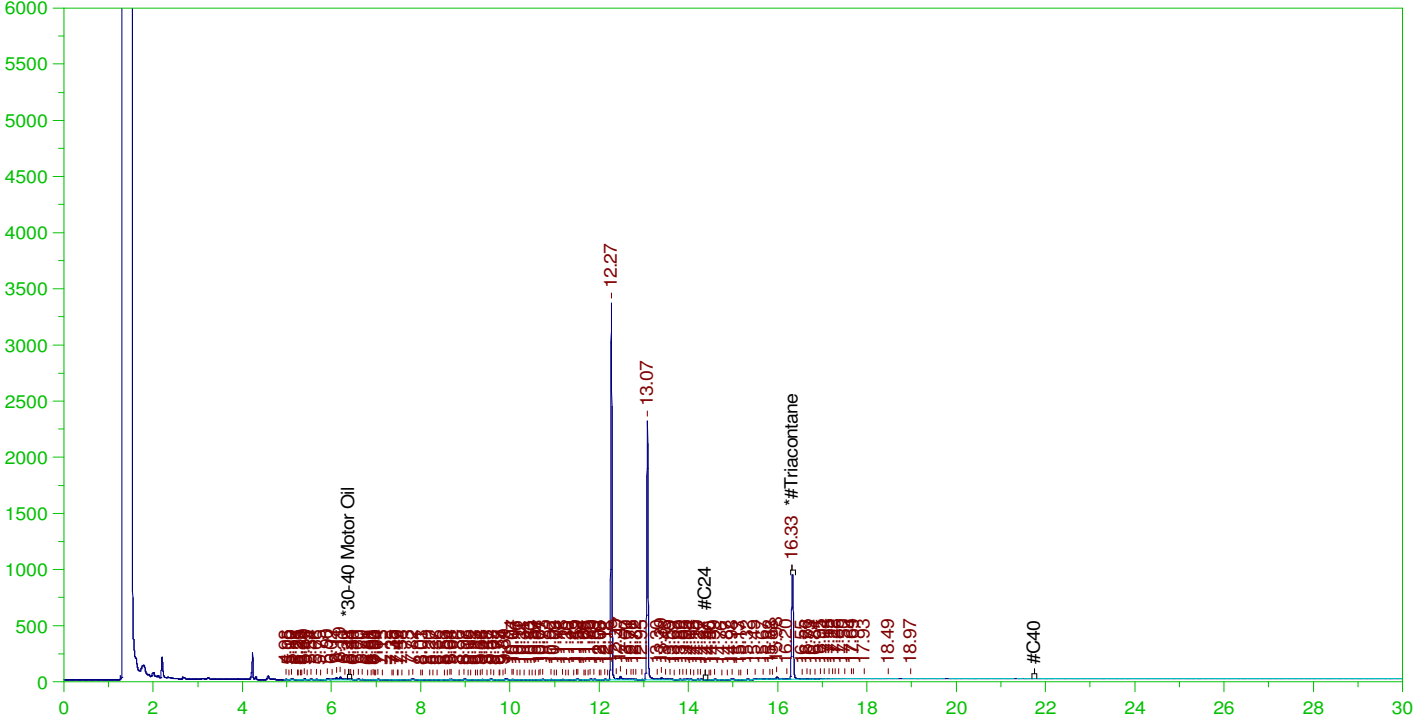
DRO Area: 687323.1 DRO Amount: 2.087805E-02  
TEH Area: 1145988 TEH Amount: 3.481039E-02

ERH1862 (RHSF)

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0010.RAW

Batch ID: 160878

B21110057-007A ;1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-007A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0010.RAW  
Date & Time Acquired: 11/3/2021 4:21:37 PM  
Method File: G:\Org\HP5\Methods\DR\_OROS-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-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: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.326	.476	.079	16.63

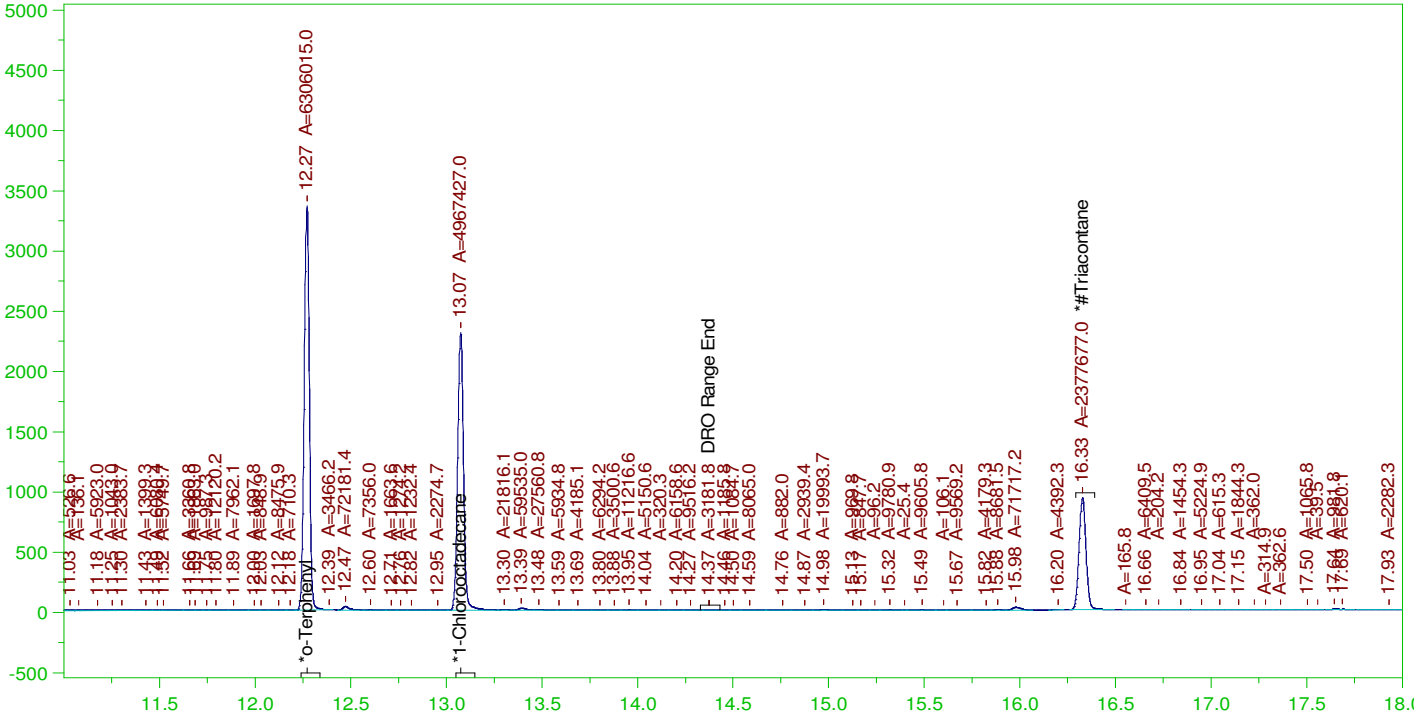
RRO Area:230885 RRO AMOUNT: 7.703993E-03

ERH1862 (RHSF)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0010.RAW

B21110057-007A ;1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-007A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0010.RAW  
Date & Time Acquired: 11/3/2021 4:21:37 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.271	.19	.169	88.79	-
*1-Chlorooctadecane	13.075	.19	.133	69.95	-
*#Triacontane	16.326	.19	.078	41.09	-

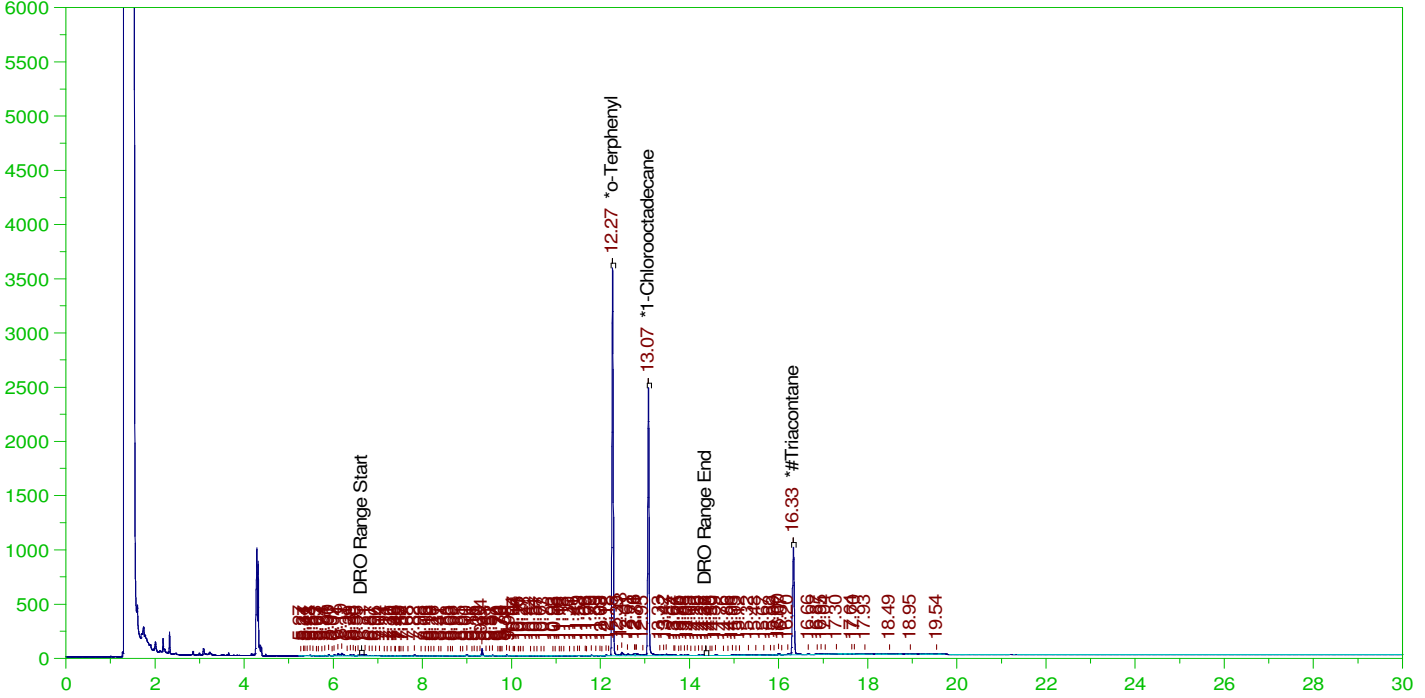
DRO Area:648218.7 DRO Amount: 1.969022E-02  
TEH Area:1935409 TEH Amount: 5.878977E-02

ERH1860 (RHSF)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0011.RAW

B21110057-006A ;1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-006A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0011.RAW  
Date & Time Acquired: 11/3/2021 5:05:00 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L0.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.272	.196	.184	94.08	-
*1-Chlorooctadecane	13.074	.196	.147	75.21	-
*#Triacontane	16.325	.196	.086	44.02	-

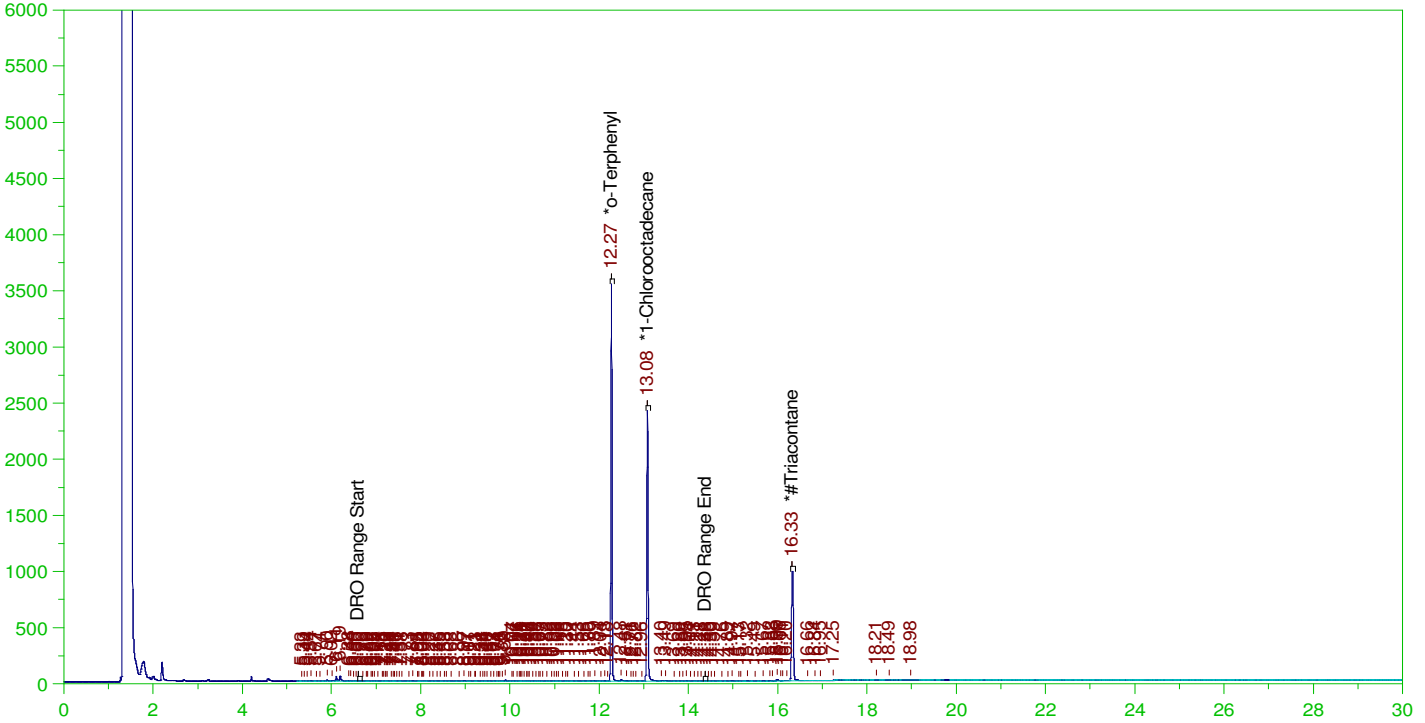
DRO Area:1202342 DRO Amount: 3.759639E-02  
TEH Area:1711864 TEH Amount: 5.352878E-02

ERH1857 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0012.RAW

B21110057-005A ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-005A ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0012.RAW  
Date & Time Acquired: 11/3/2021 5:48:25 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.272	.194	.182	93.57	-
*1-Chlorooctadecane	13.075	.194	.142	73.15	-
*#Triacontane	16.326	.194	.086	44.04	-

DRO Area: 613615.8 DRO Amount: 1.900105E-02  
TEH Area: 1136423 TEH Amount: 3.519015E-02

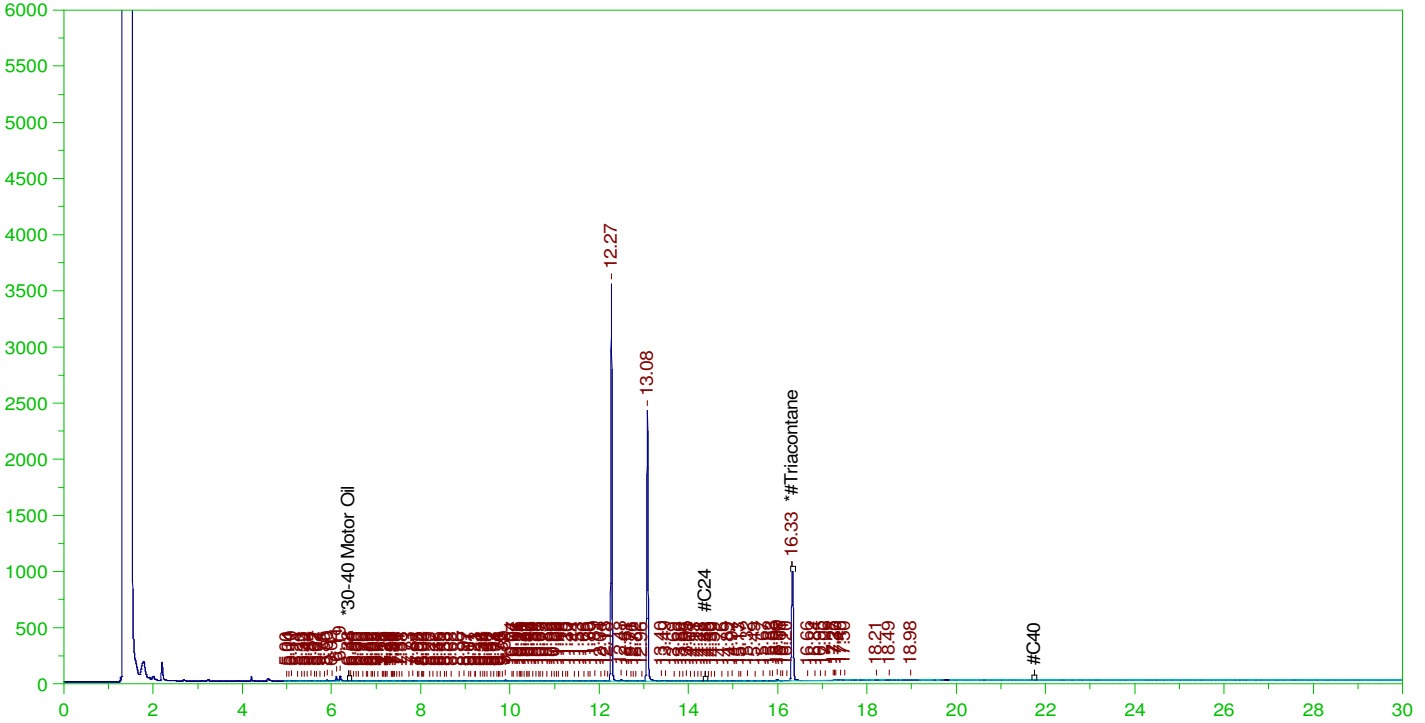


ERH1857 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0012.RAW

B21110057-005A ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-005A ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0012.RAW  
Date & Time Acquired: 11/3/2021 5:48:25 PM  
Method File: G:\Org\HP5\Methods\DR\_OROS-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.326	.485	.086	17.62

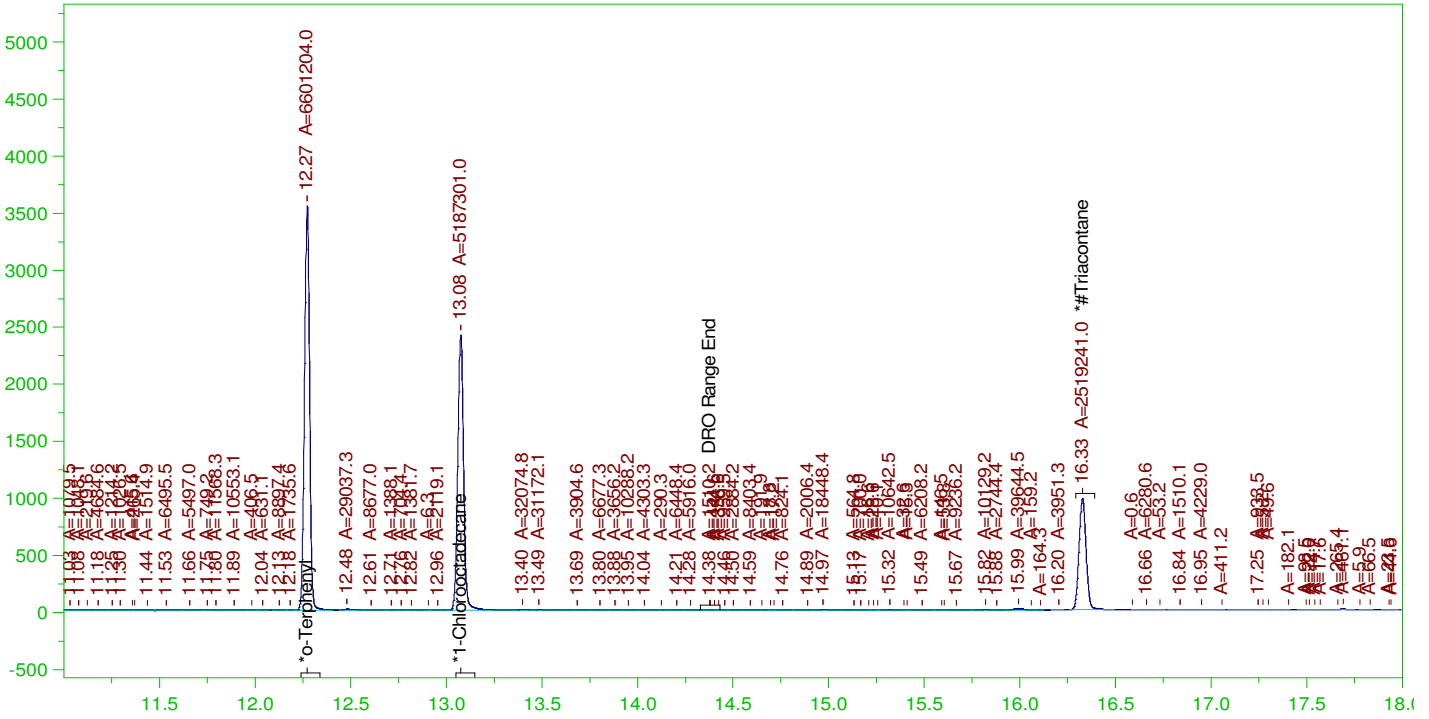
RRO Area:183228.9 RRO AMOUNT: 6.232555E-03

ERH1857 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0012.RAW

B21110057-005A ;1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-005A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0012.RAW  
Date & Time Acquired: 11/3/2021 5:48:25 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.272	.194	.18	92.95	-
*1-Chlorooctadecane	13.075	.194	.142	73.04	-
*#Triacontane	16.326	.194	.085	43.54	-

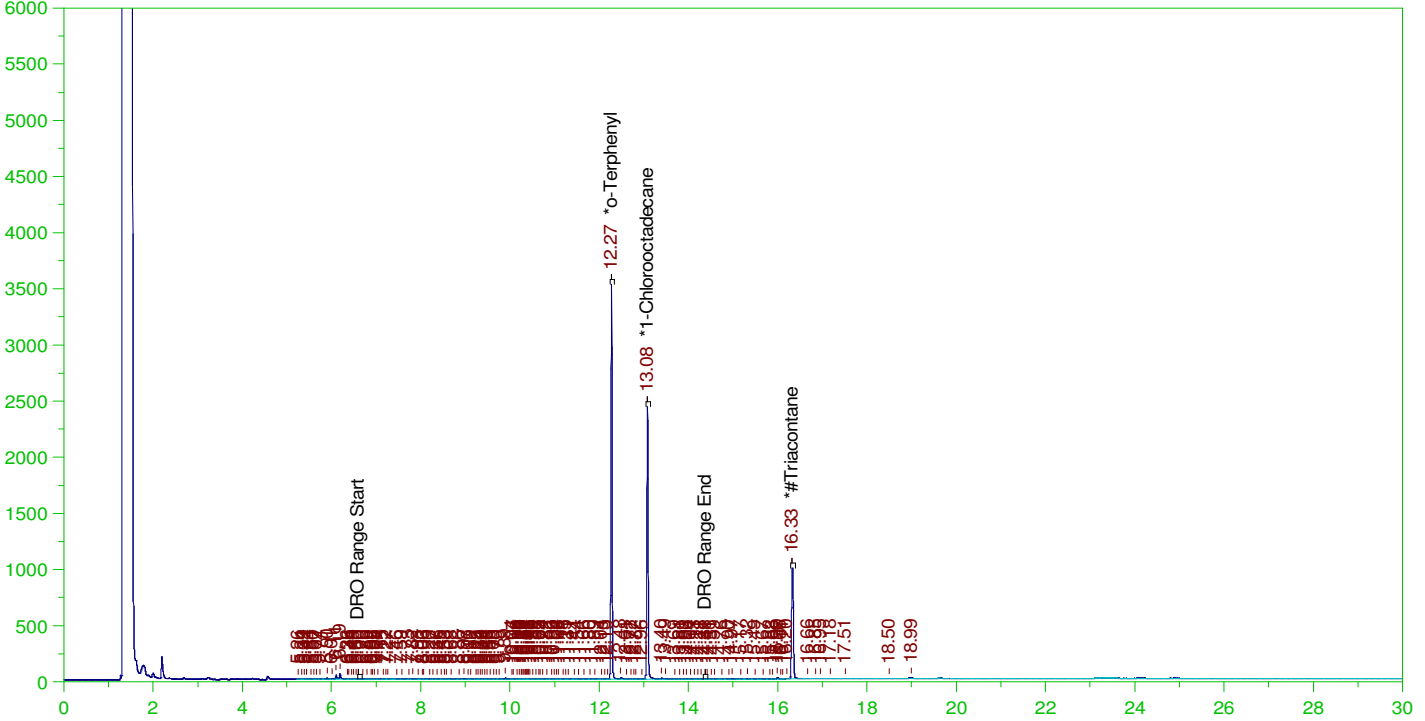
DRO Area:726857.6 DRO Amount: 2.250766E-02  
TEH Area:1689407 TEH Amount: 5.231367E-02

ERH1860 (RHSF)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0013.RAW

B21110057-006A ; 1103HP5 , \$HC-8015-DRO-W, RR



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-006A ; 1103HP5 , \$HC-8015-DRO-W, RR  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0013.RAW  
 Date & Time Acquired: 11/3/2021 6:31:41 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.274	.196	.184	93.79	-
*1-Chlorooctadecane	13.077	.196	.144	73.44	-
*Triacontane	16.327	.196	.087	44.29	-

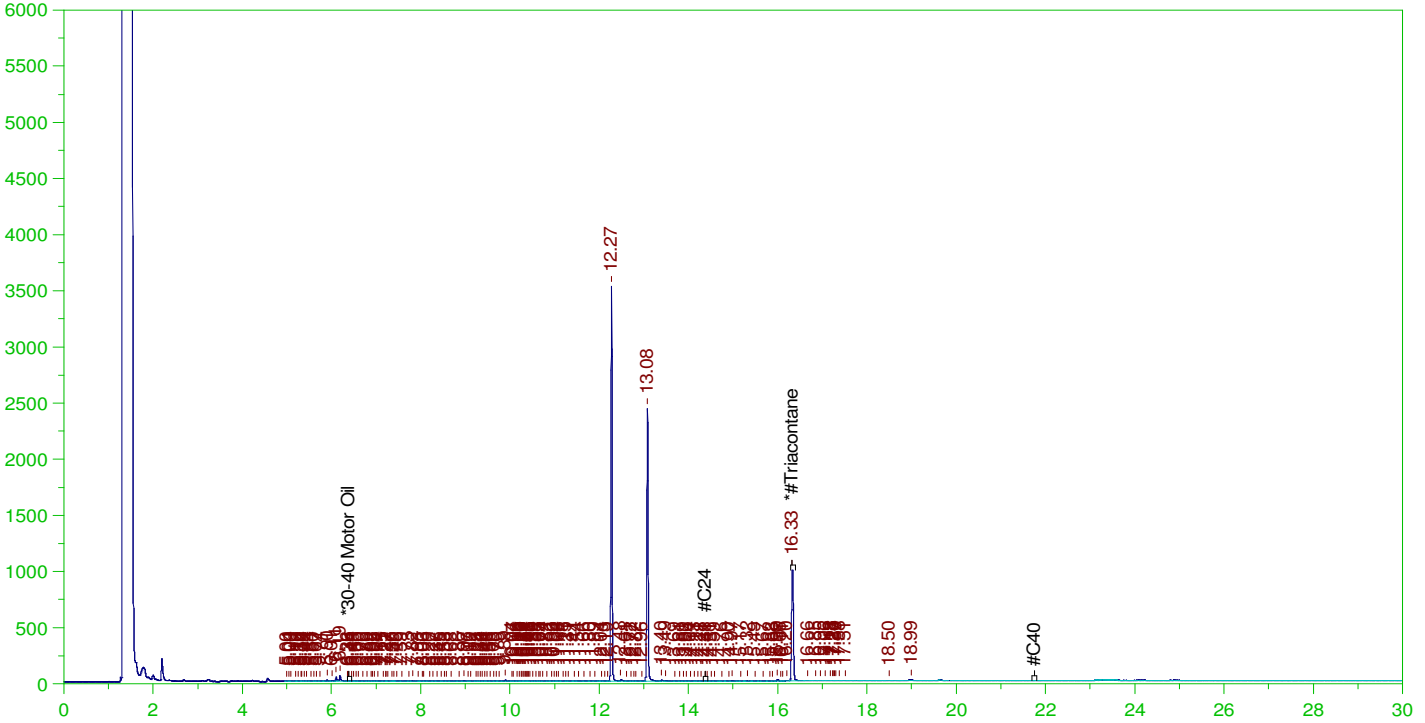
DRO Area: 622825.4 DRO Amount: 1.947531E-02  
 TEH Area: 1136072 TEH Amount: 3.552417E-02

ERH1860 (RHSF)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0013.RAW

B21110057-006A ; 1103HP5 , \$HC-8015-DRO-W, RR



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-006A ; 1103HP5 , \$HC-8015-DRO-W, RR  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0013.RAW  
 Date & Time Acquired: 11/3/2021 6:31:41 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.327	.49	.087	17.72	-

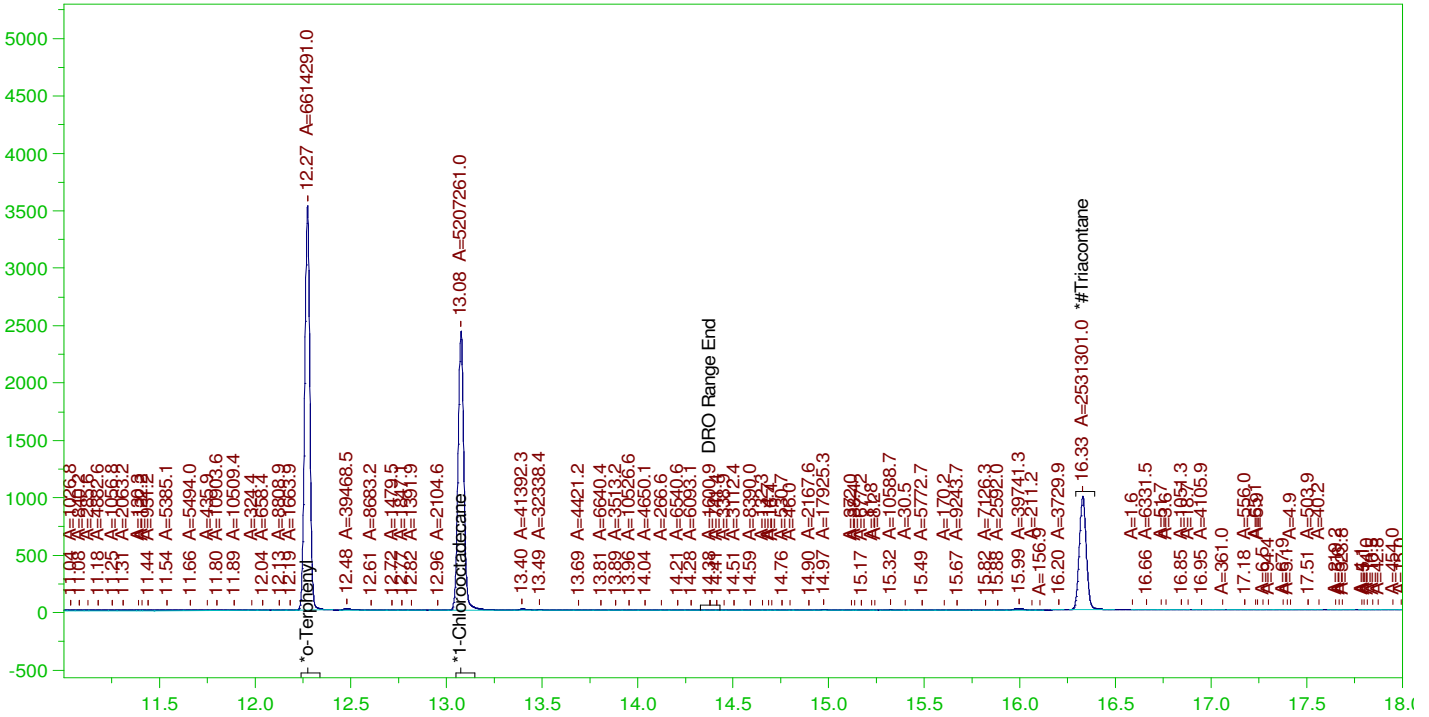
RRO Area:175005.2 RRO AMOUNT: 6.011184E-03

ERH1860 (RHSF)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0013.RAW

B21110057-006A ;1103HP5 , \$HC-8015-DRO-W, RR



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-006A ;1103HP5 , \$HC-8015-DRO-W, RR  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0013.RAW  
 Date & Time Acquired: 11/3/2021 6:31:41 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.274	.196	.183	93.13
*1-Chlorooctadecane	13.077	.196	.144	73.32
*#Triacontane	16.327	.196	.086	43.75

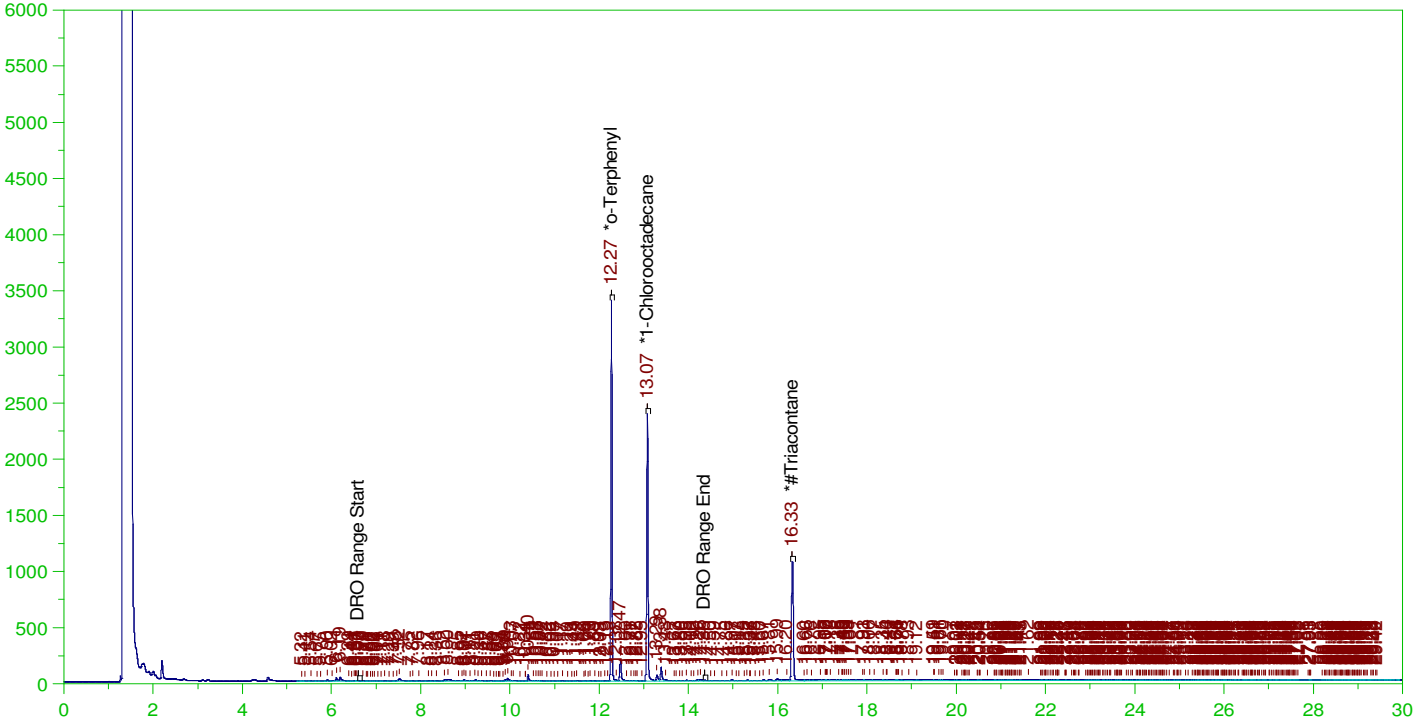
DRO Area:684504.3 DRO Amount: 2.140397E-02  
 TEH Area:1585519 TEH Amount: 4.957806E-02

ERH1854 (RHMW05)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0014.RAW

B21110057-004A ;1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-004A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0014.RAW  
Date & Time Acquired: 11/3/2021 7:14:53 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.273	.194	.174	89.77	-
*1-Chlorooctadecane	13.075	.194	.14	72.16	-
*#Triacontane	16.325	.194	.097	50.13	-

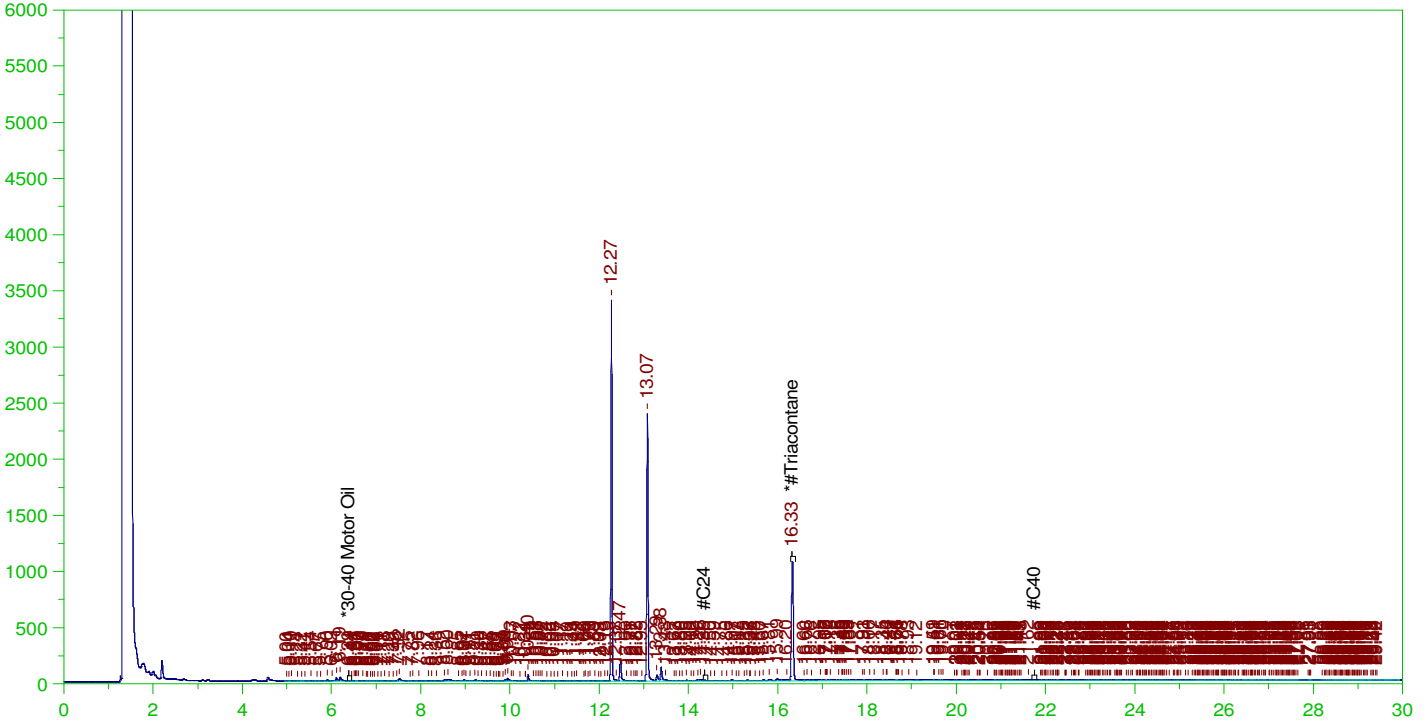
DRO Area:2718301 DRO Amount: 8.417411E-02  
TEH Area:8338602 TEH Amount: 0.2582107

ERH1854 (RHMW05)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0014.RAW

B21110057-004A ;1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-004A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0014.RAW  
Date & Time Acquired: 11/3/2021 7:14:53 PM  
Method File: G:\Org\HP5\Methods\D3\_OROS-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.325	.485	.097	20.05

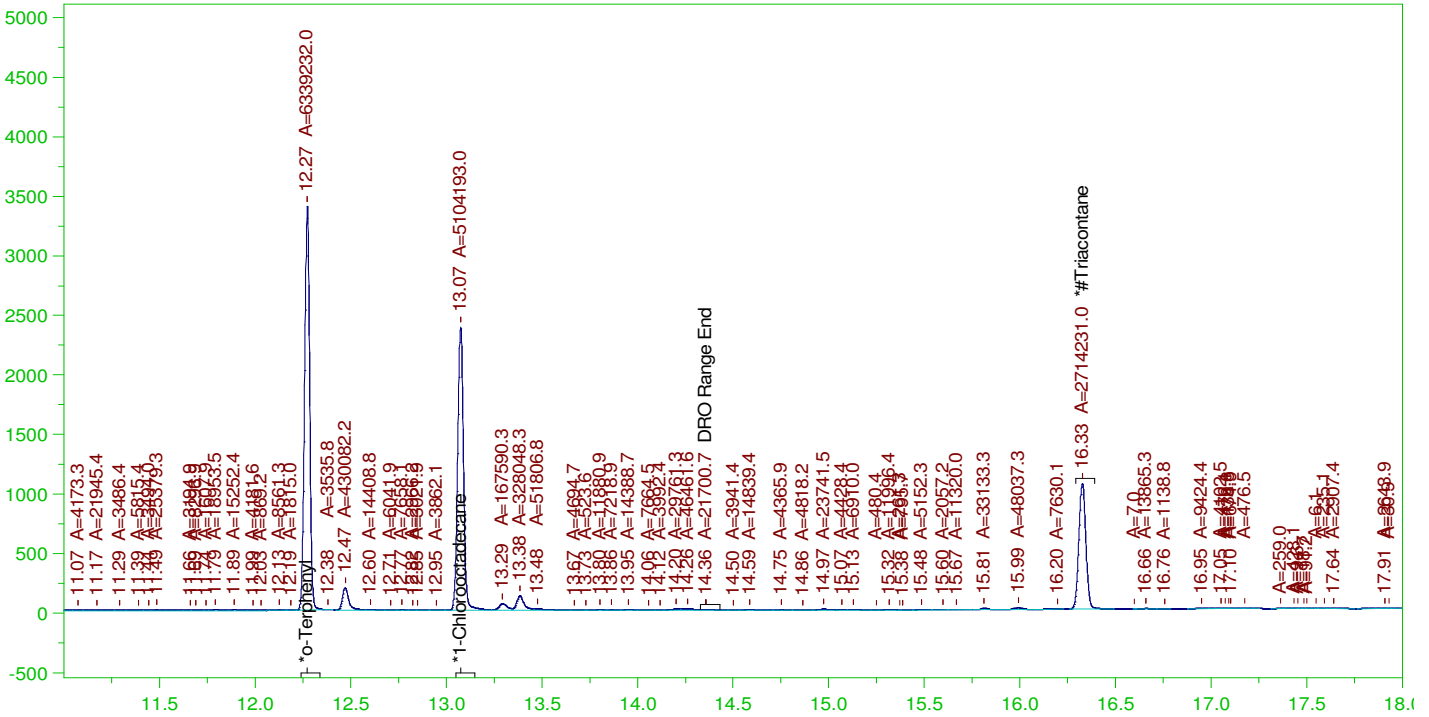
RRO Area:3829353 RRO AMOUNT: 0.1302559

ERH1854 (RHMW05)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0014.RAW

B21110057-004A ;1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-004A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0014.RAW  
Date & Time Acquired: 11/3/2021 7:14:53 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.273	.194	.173	89.26
*1-Chlorooctadecane	13.075	.194	.14	71.87
*#Triacontane	16.325	.194	.091	46.91

DRO Area:2713605 DRO Amount: 8.402869E-02  
TEH Area:3939811 TEH Amount: 0.121999

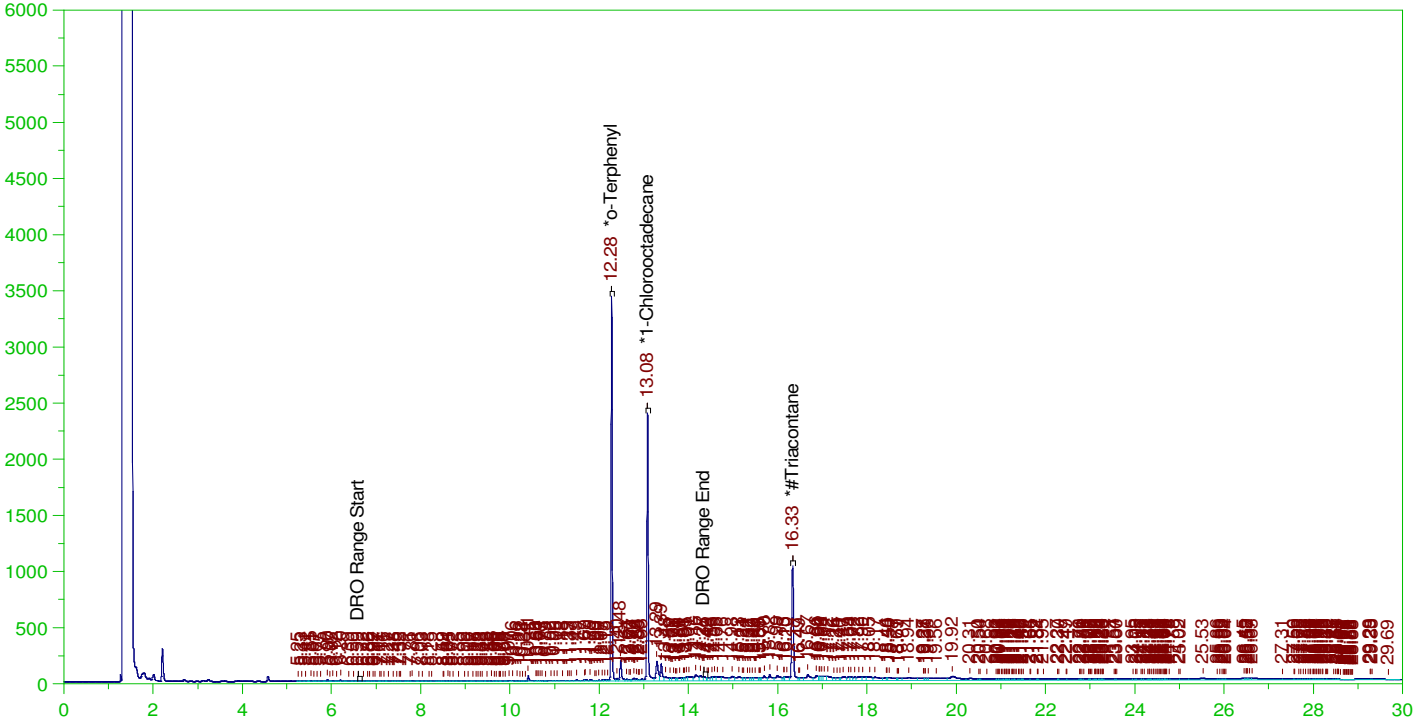


ERH1851 (RHMW03)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0015.RAW

B21110057-003A ;1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-003A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0015.RAW  
Date & Time Acquired: 11/3/2021 7:58:08 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.277	.202	.185	91.56	-
*1-Chlorooctadecane	13.079	.202	.147	72.89	-
*#Triacontane	16.33	.202	.098	48.61	-

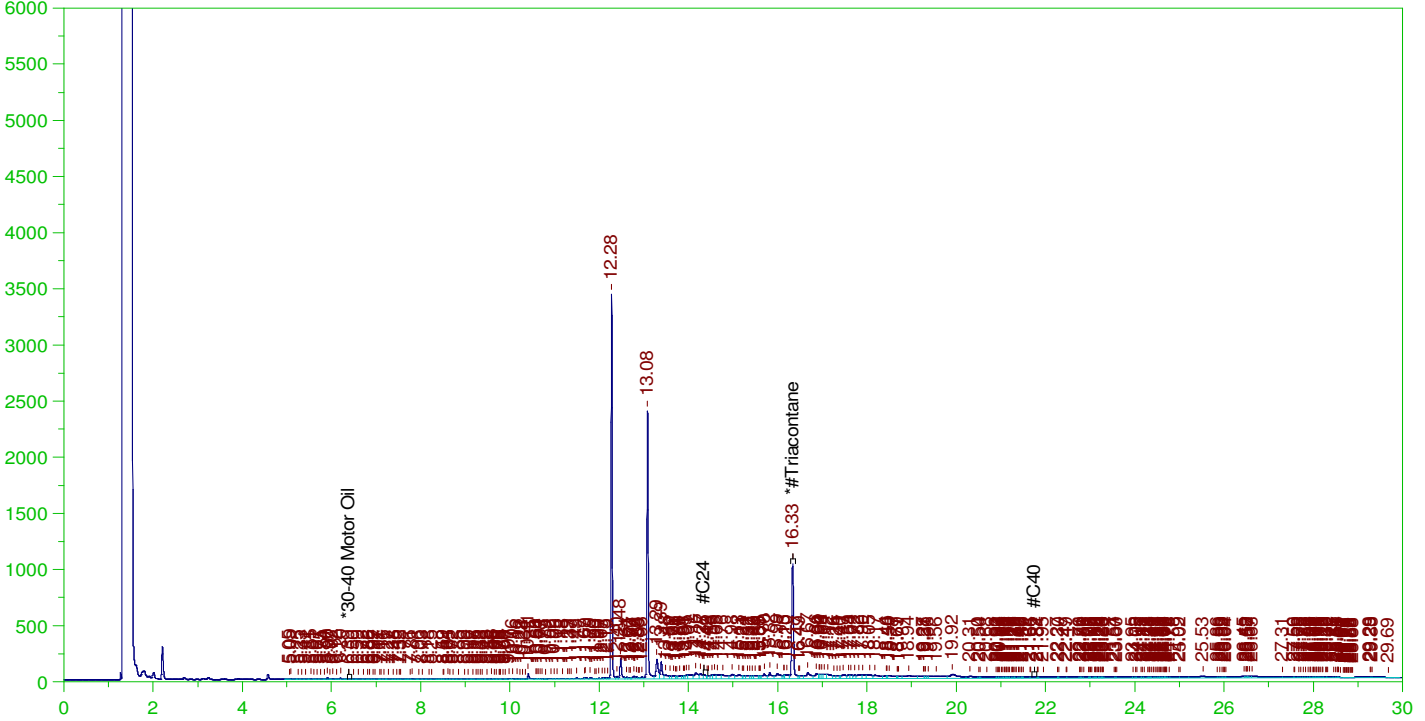
DRO Area:4853354 DRO Amount: 0.1563598  
TEH Area:1.813485E+07 TEH Amount: 0.5842478

ERH1851 (RHMW03)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0015.RAW

B21110057-003A ;1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-003A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0015.RAW  
Date & Time Acquired: 11/3/2021 7:58:08 PM  
Method File: G:\Org\HP5\Methods\D3\_OROS-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.33	.505	.098	19.44

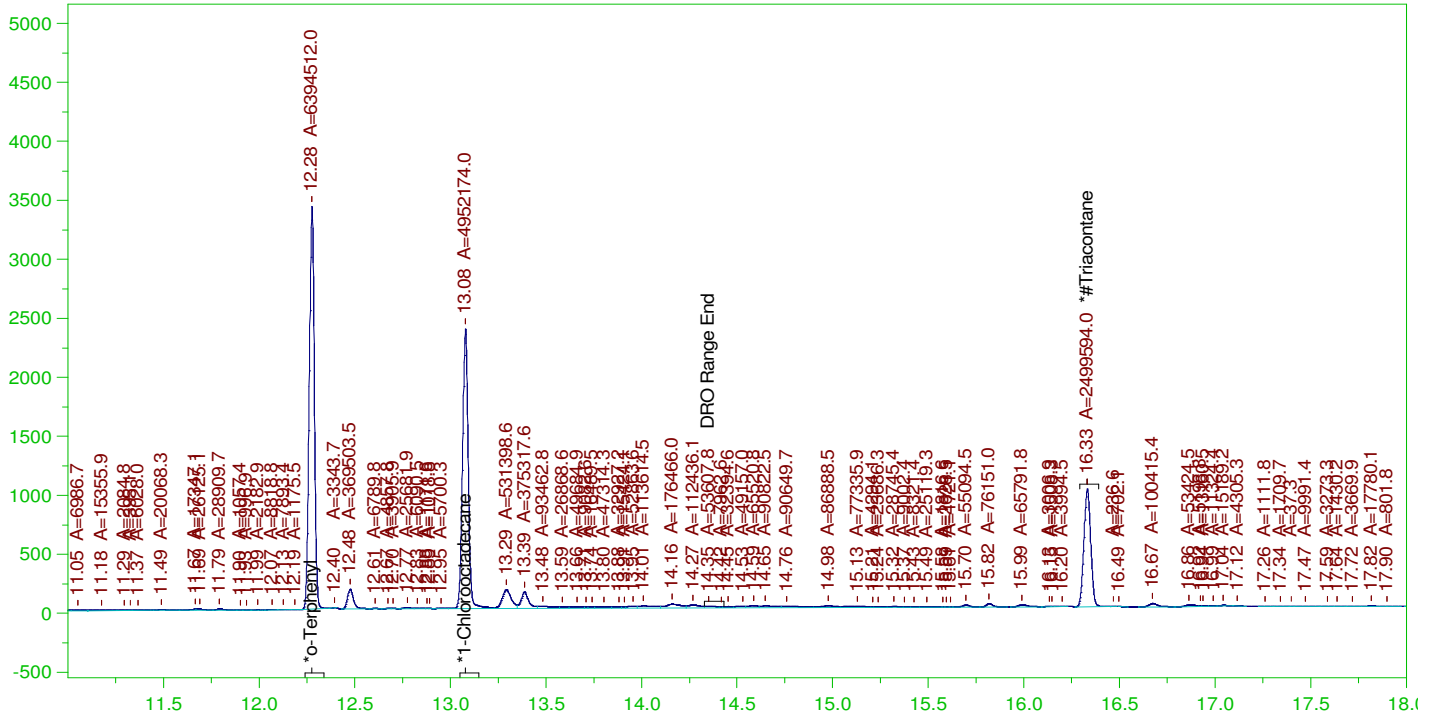
RRO Area:1.034768E+07 RRO AMOUNT: 0.3661989

ERH1851 (RHMW03)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0015.RAW

B21110057-003A ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-003A ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0015.RAW  
Date & Time Acquired: 11/3/2021 7:58:08 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.277	.202	.182	90.04
*1-Chlorooctadecane	13.079	.202	.141	69.73
*#Triacontane	16.33	.202	.087	43.2

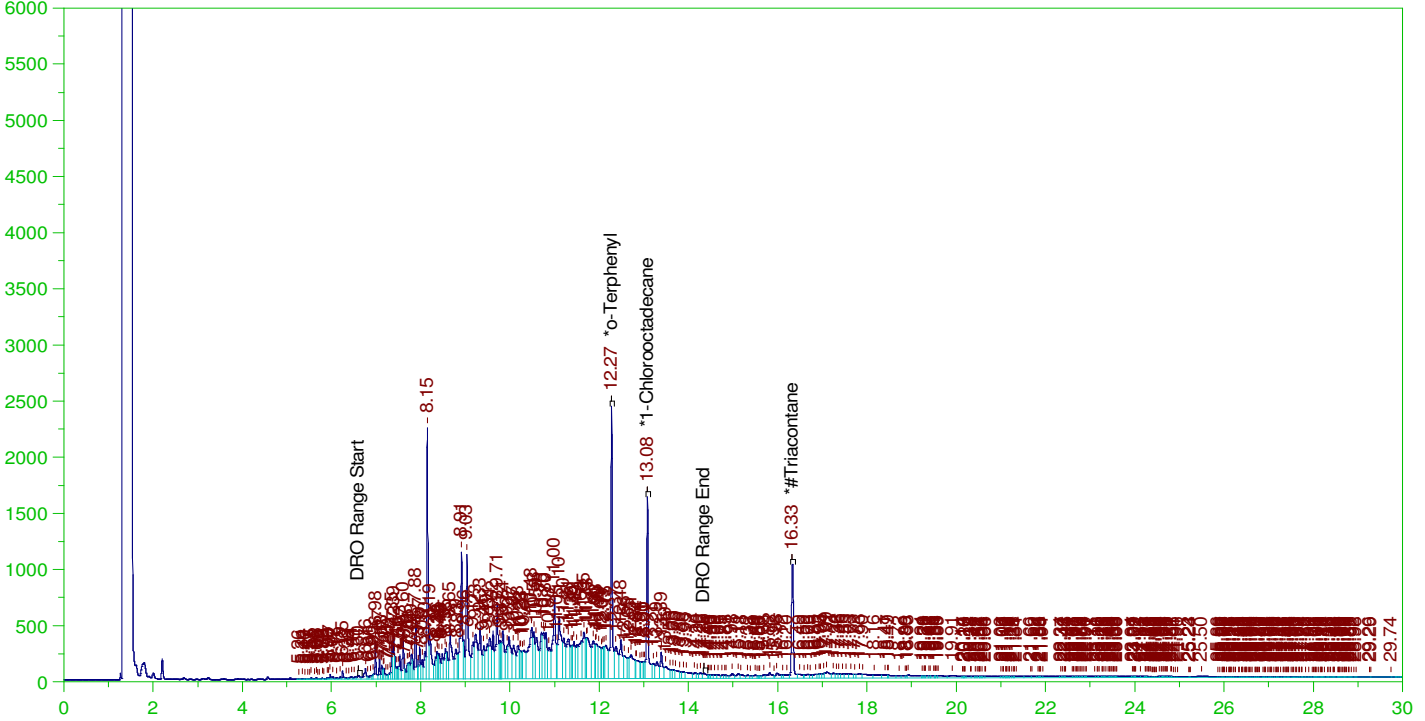
DRO Area: 2712144 DRO Amount: 8.737671E-02  
TEH Area: 4709326 TEH Amount: 0.1517196

ERH1848 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0016.RAW

B21110057-002A ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-002A ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0016.RAW  
Date & Time Acquired: 11/3/2021 8:41:15 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.275	.196	.163	83.34	-
*1-Chlorooctadecane	13.075	.196	.117	59.83	-
*#Triacontane	16.327	.196	.096	49.05	-

DRO Area: 1.041868E+08 DRO Amount: 3.257849

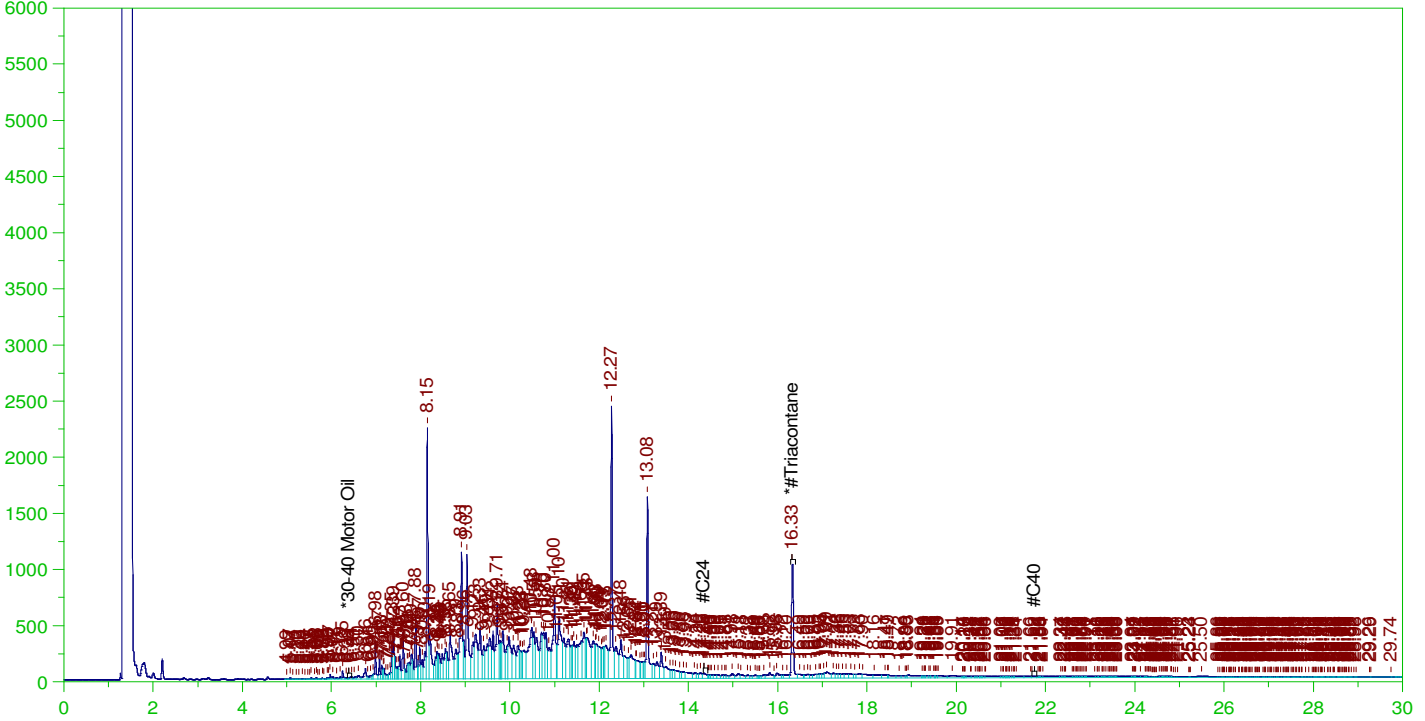
TEH Area: 1.192822E+08 TEH Amount: 3.72987

ERH1848 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0016.RAW

B21110057-002A ;1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-002A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0016.RAW  
Date & Time Acquired: 11/3/2021 8:41:15 PM  
Method File: G:\Org\HP5\Methods\D3\_OROS-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.327	.49	.096	19.63	-

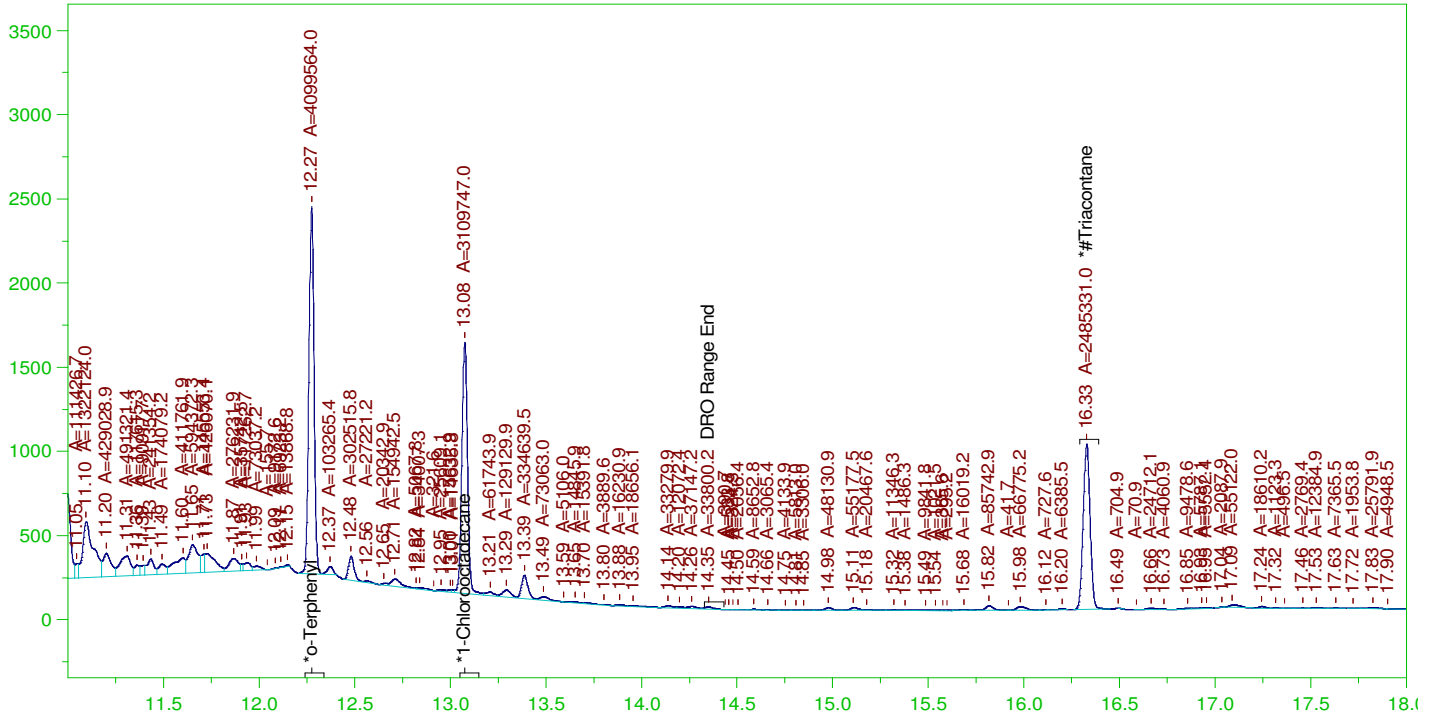
RRO Area:1.137174E+07 RRO AMOUNT: 0.3906036

ERH1848 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0016.RAW

B21110057-002A ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-002A ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0016.RAW  
Date & Time Acquired: 11/3/2021 8:41:15 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.275	.196	.113	57.73	-
*1-Chlorooctadecane	13.075	.196	.086	43.79	-
*#Triacontane	16.327	.196	.084	42.95	-

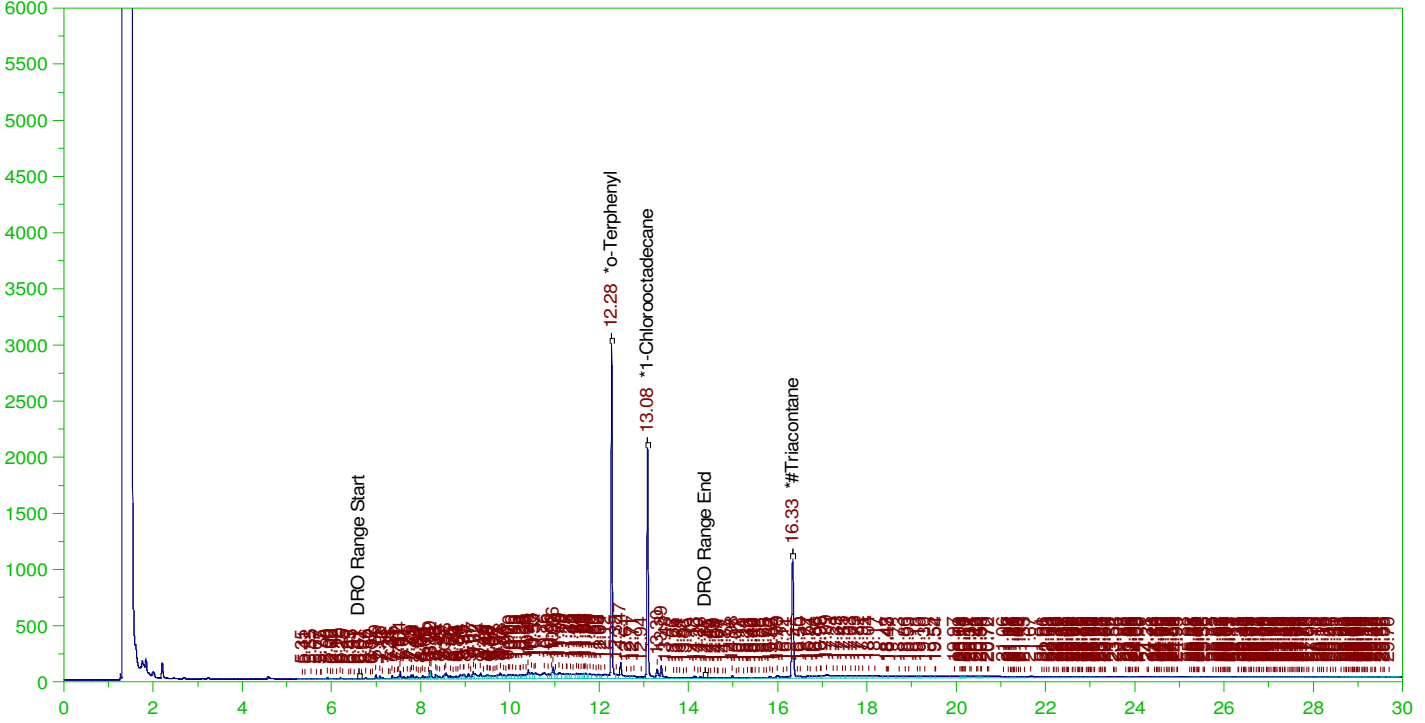
DRO Area: 4.416523E+07 DRO Amount: 1.381016  
TEH Area: 4.568161E+07 TEH Amount: 1.428432

ERH1845 (RHMW01R)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0017.RAW

B21110057-001A ;1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-001A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0017.RAW  
Date & Time Acquired: 11/3/2021 9:24:23 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-110317-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.276	.204	.167	81.98	-
*1-Chlorooctadecane	13.079	.204	.129	63.13	-
*#Triacontane	16.331	.204	.099	48.64	-

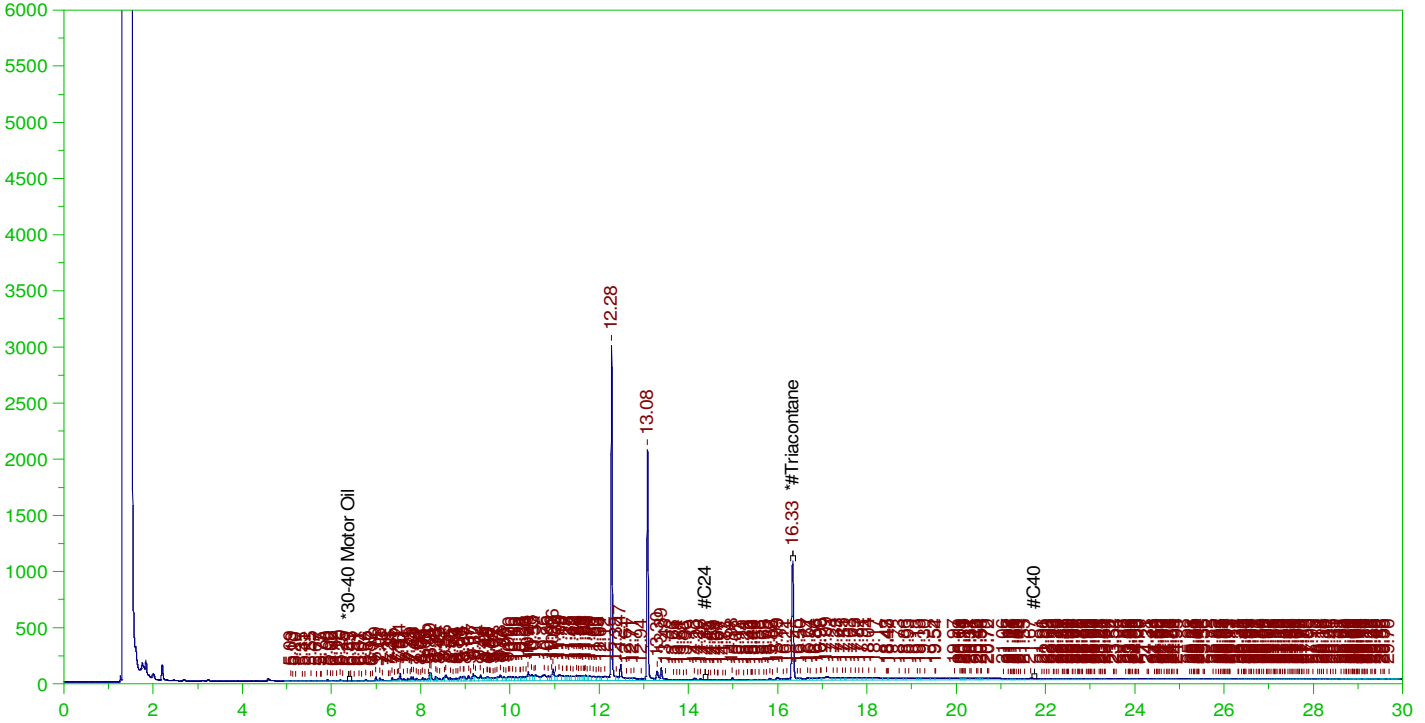
DRO Area:1.244405E+07 DRO Amount: 0.4049989  
TEH Area:2.160833E+07 TEH Amount: 0.703256

ERH1845 (RHMW01R)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0017.RAW

B21110057-001A ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-001A ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0017.RAW  
Date & Time Acquired: 11/3/2021 9:24:23 PM  
Method File: G:\Org\HP5\Methods\D3\_OROS-110317-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.331	.51	.099	19.46	-

RRO Area:6538442 RRO AMOUNT: 0.2337532

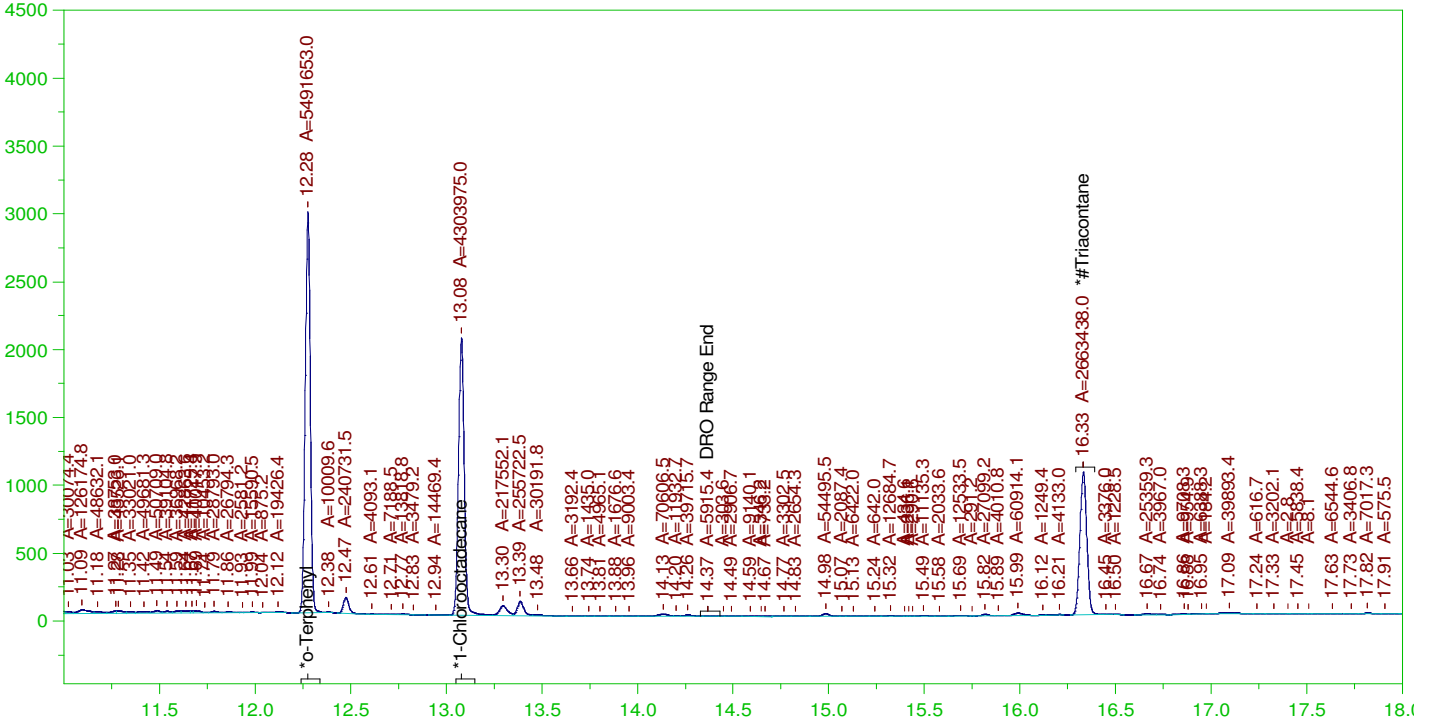


ERH1845 (RHMW01R)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0017.RAW

B21110057-001A ;1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

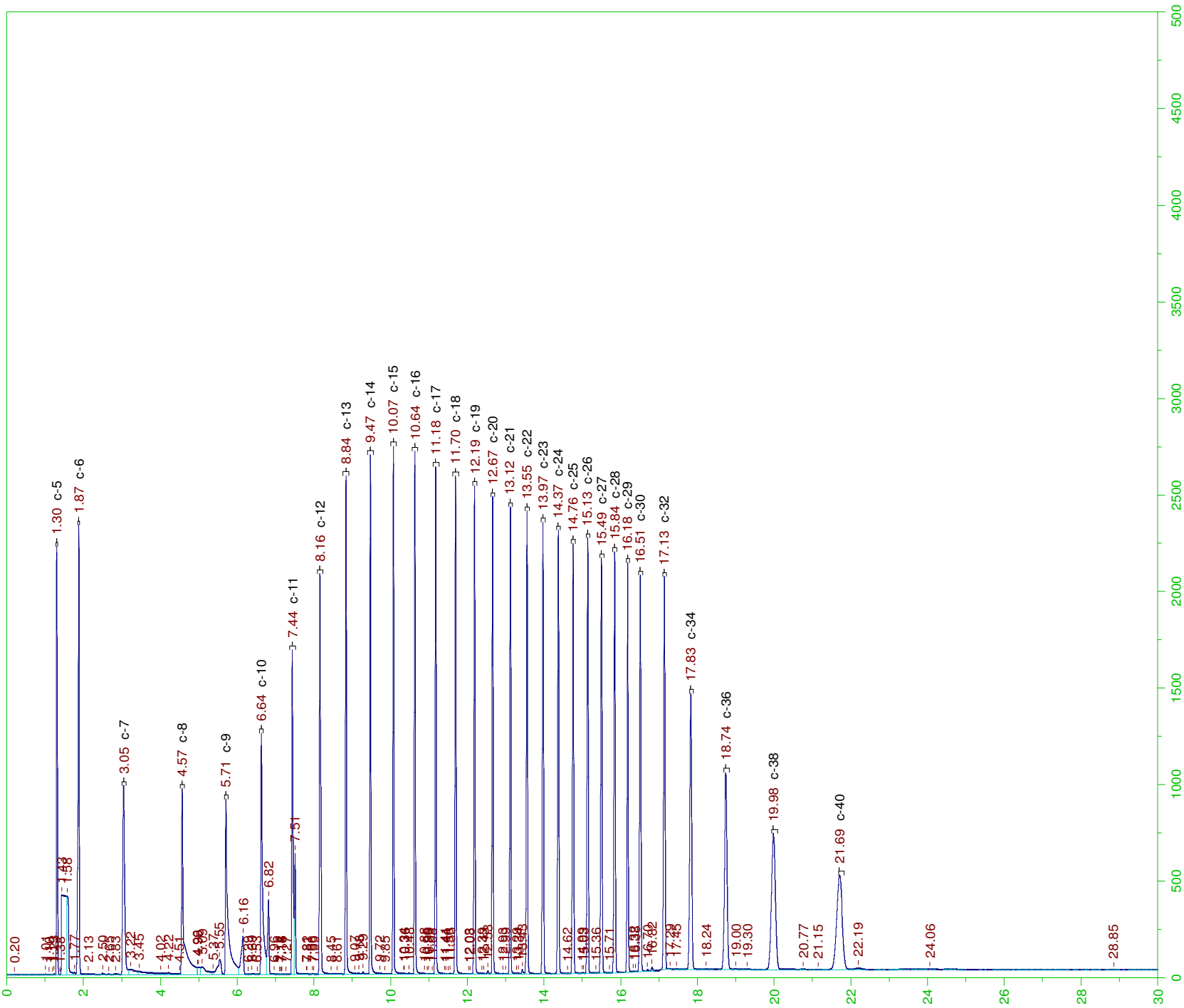
Sample Name: B21110057-001A ;1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0017.RAW  
Date & Time Acquired: 11/3/2021 9:24:23 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

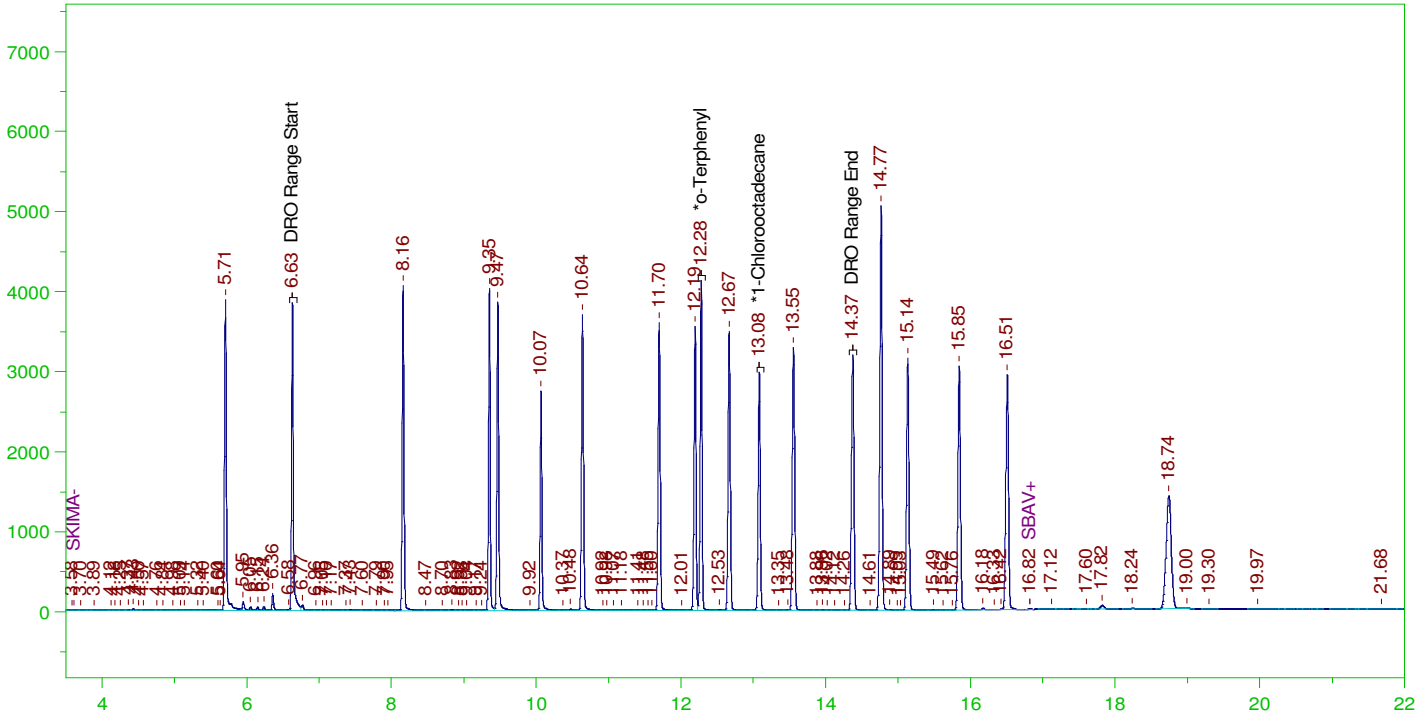
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.276	.204	.158	77.33	-
*1-Chlorooctadecane	13.079	.204	.124	60.6	-
*#Triacontane	16.331	.204	.094	46.03	-

DRO Area:5610730 DRO Amount: 0.1826045  
TEH Area:6483052 TEH Amount: 0.2109948



G:\org\HP5\DAT\HP5110321\_b\1103HP5.0019.RAW

MARKER\_1103HP519r, DRO ;1103HP5 , DRO211012I



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

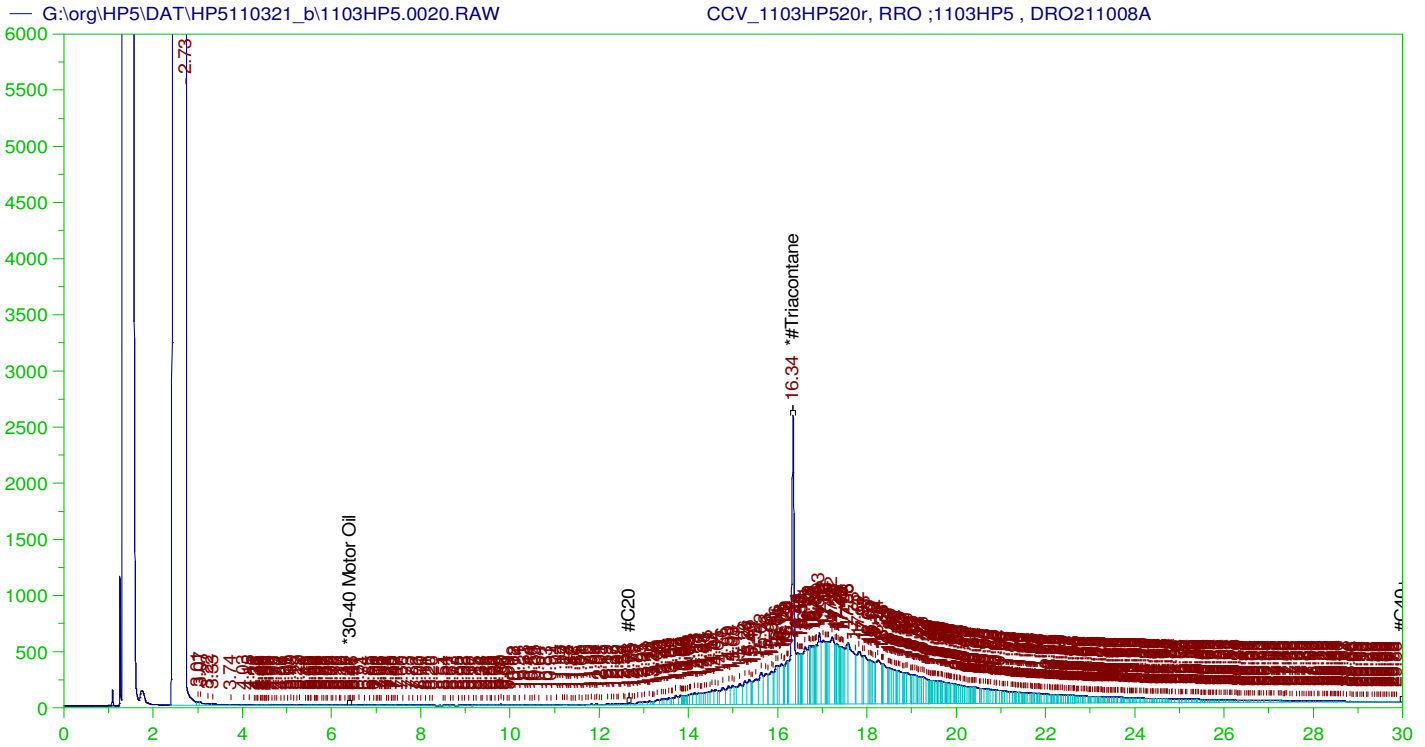
Sample Name: MARKER\_1103HP519r, DRO ;1103HP5 , DRO211012I  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0019.RAW  
 Date & Time Acquired: 11/3/2021 10:50:20 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211012IA-24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.279	.2	.219	109.31	-
*1-Chlorooctadecane	13.081	.2	.177	88.45	-

DRO Area: 7.544598E+07 DRO Amount: 2.406325  
 TEH Area: 1.243892E+08 TEH Amount: 3.967354



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP520r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0020.RAW  
 Date & Time Acquired: 11/3/2021 11:33:11 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.339	500.	332.661	66.53	-

~~RRO~~ TEH (Oil Range) Area:1.380999E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 4838.412

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0020.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.31	.	75-125

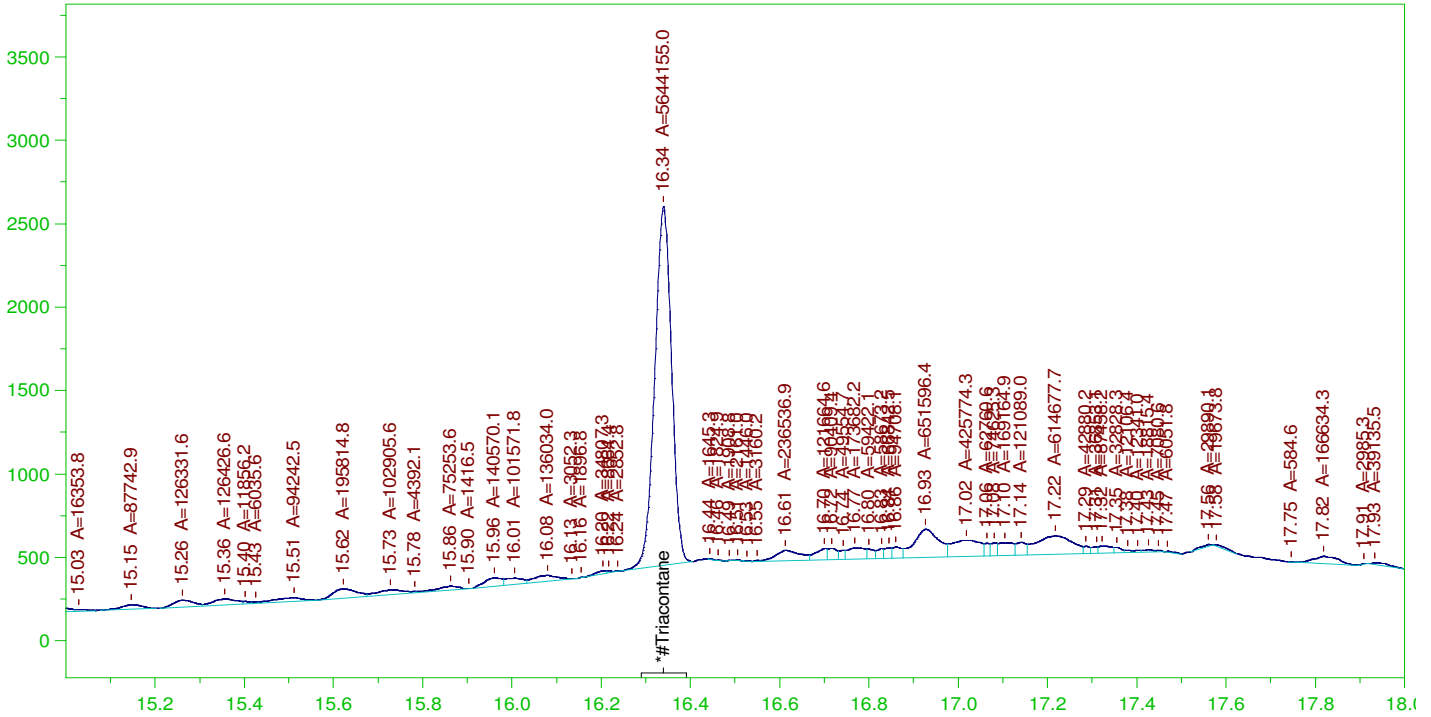
  

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.339	200.	332.661	166.33	75-125

AMN 11/16/2021

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0020.RAW

CCV\_1103HP520r, RRO ;1103HP5 , DRO211008A



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP520r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0020.RAW  
 Date & Time Acquired: 11/3/2021 11:33:11 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.339	500.	195.096	39.02

RRO Area:6246524 RRO AMOUNT: 218.8506

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0020.RAW

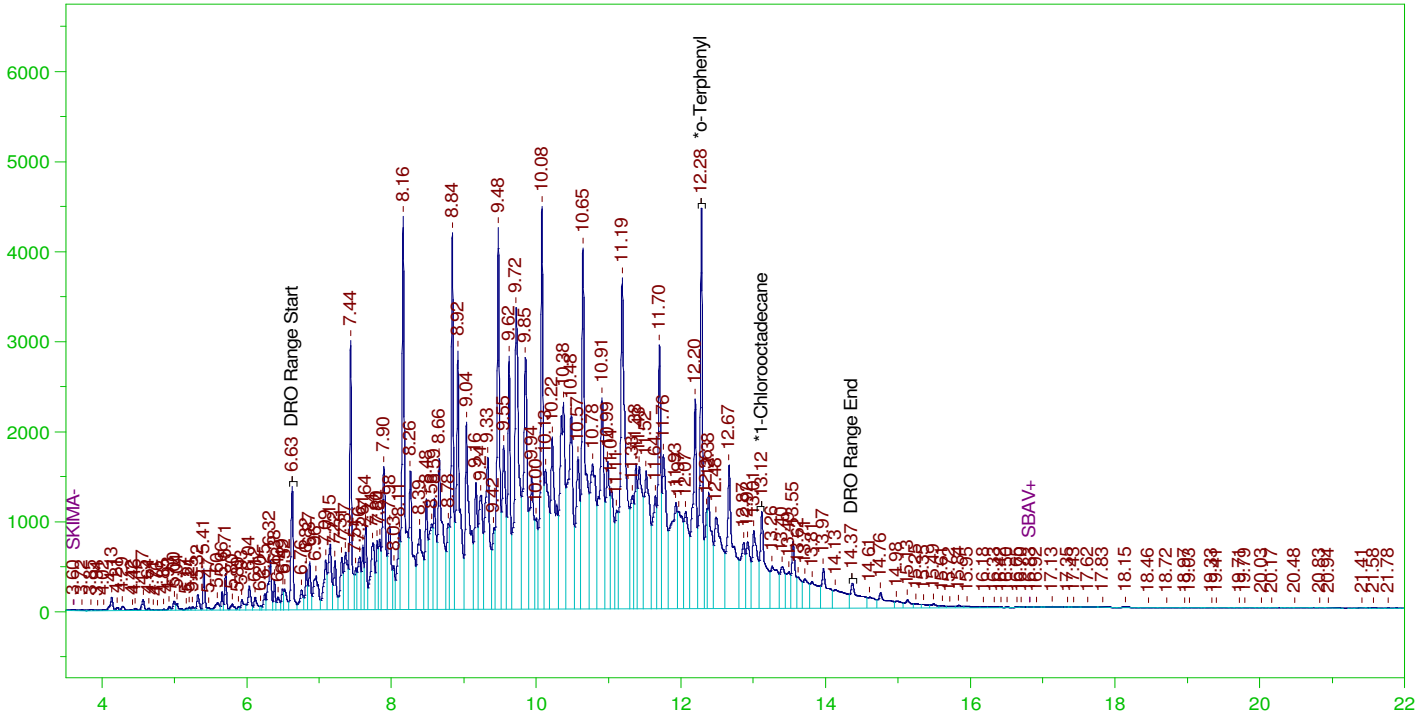
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.31	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.339	200.	195.096	97.55	75-125

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0021.RAW

CCV\_1103HP521r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP521r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0021.RAW  
 Date & Time Acquired: 11/4/2021 12:16:13 AM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

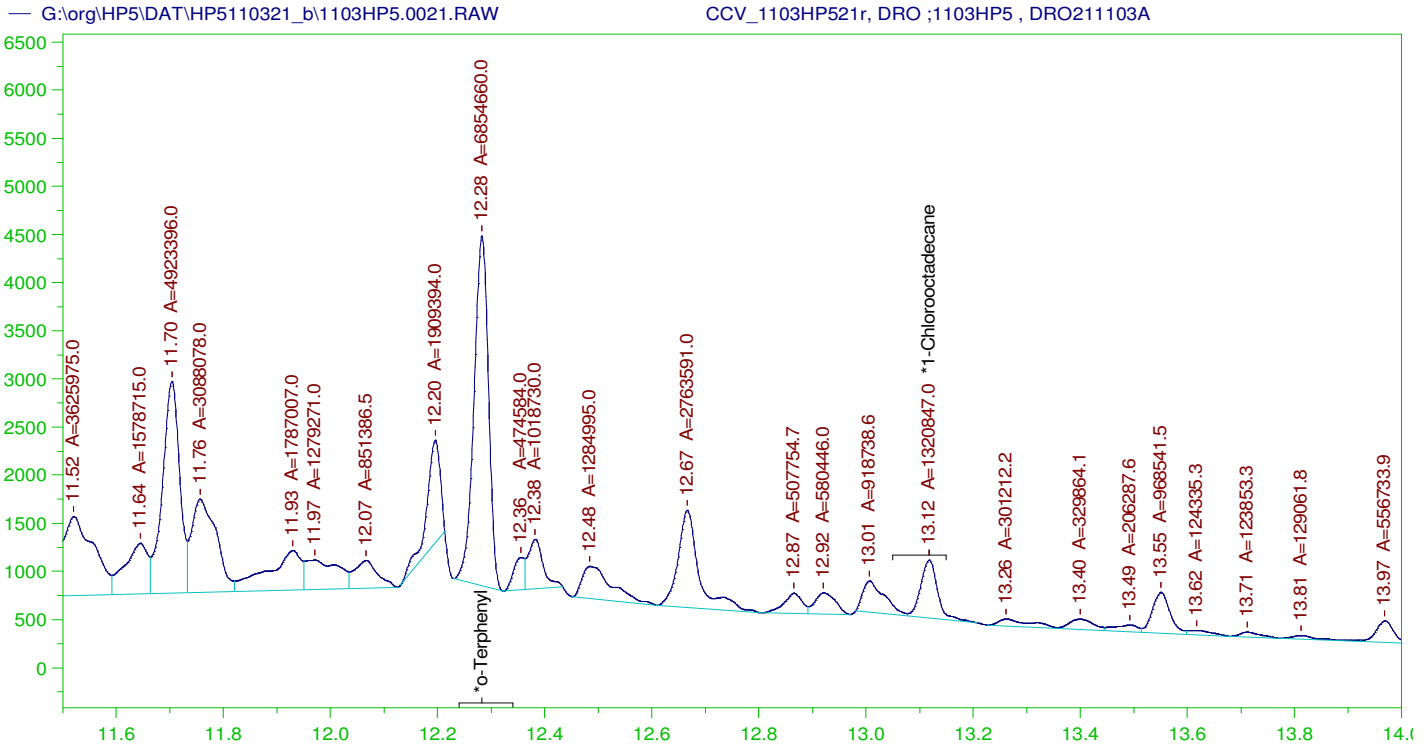
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.283	200.	321.376	160.69
*1-Chlorooctadecane	13.118	200.	151.706	75.85

DRO Area: 4.437219E+08 DRO Amount: 14152.37  
 TEH Area: 4.5908E+08 TEH Amount: 14642.21

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0021.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14642.21	97.61	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.283	200.	321.376	160.69	85-115
*1-Chlorooctadecane	13.118	200.	151.706	75.85	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP521r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0021.RAW  
 Date & Time Acquired: 11/4/2021 12:16:13 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

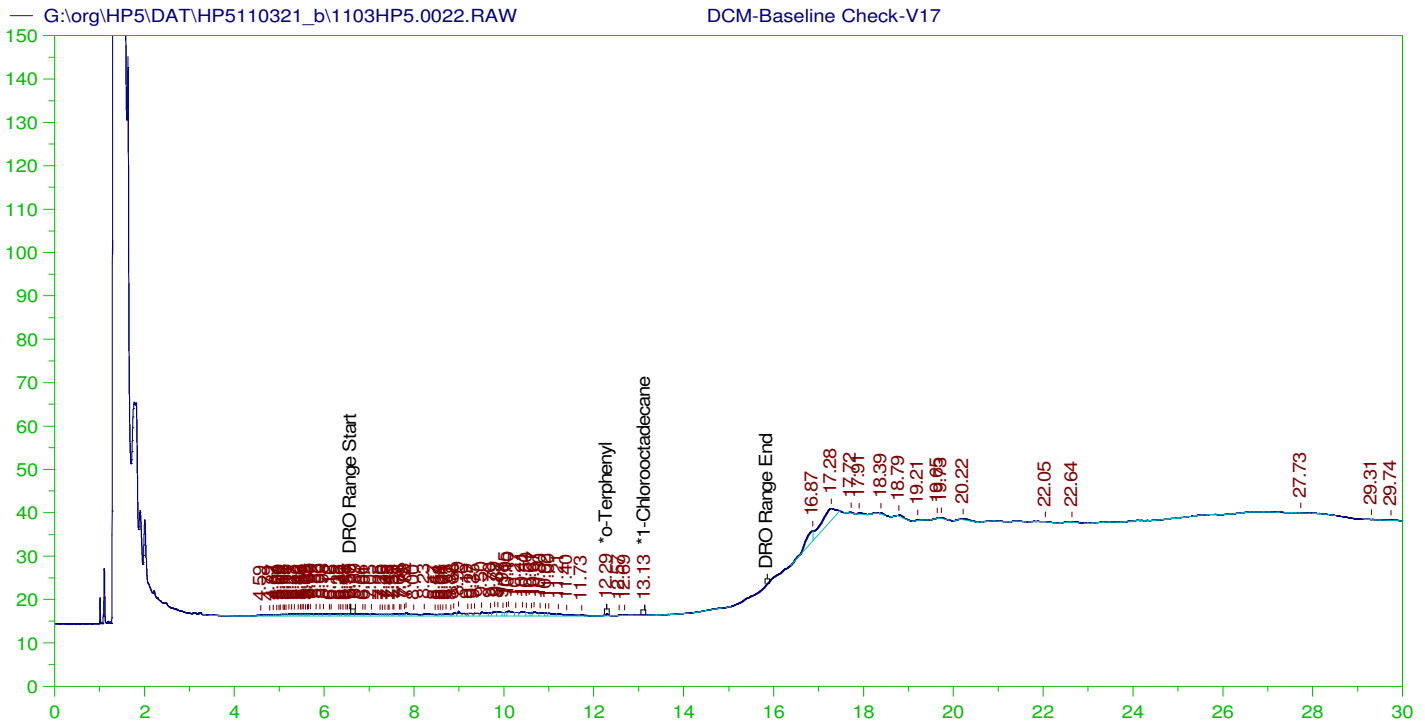
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.283	200.	193.039	96.52
*1-Chlorooctadecane	13.118	200.	37.197	18.6

DRO Area: 2.508547E+08 DRO Amount: 8000.931  
 TEH Area: 2.610248E+08 TEH Amount: 8325.301

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0021.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8325.3	55.5	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.283	200.	193.039	96.52	85-115
*1-Chlorooctadecane	13.118	200.	37.197	18.6	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V17  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0022.RAW  
 Date & Time Acquired: 11/4/2021 12:59:05 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	12.29	200.	.041	.02	-
*1-Chlorooctadecane	13.134	200.	.016	.01	-

DRO Area:160667.6 DRO Amount: 5.124442  
 TEH Area:342548.1 TEH Amount: 10.92546

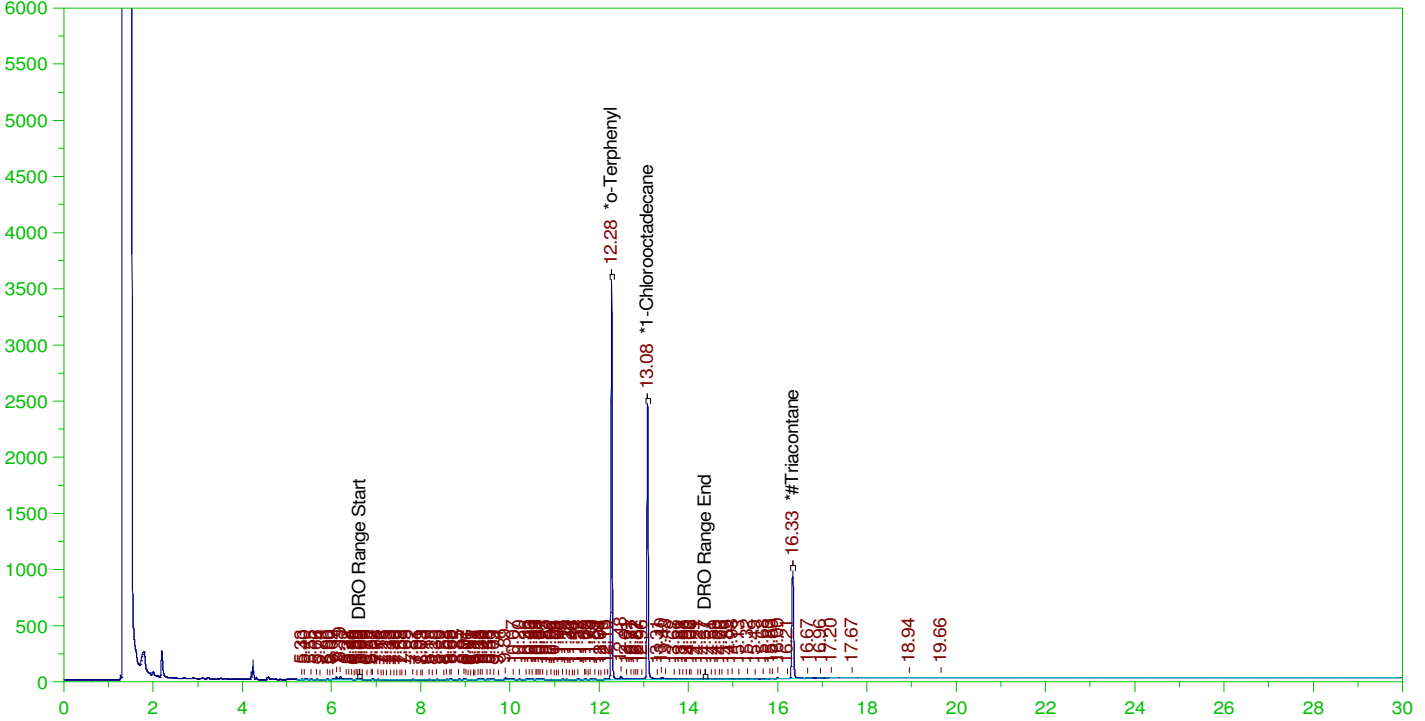


ERH1680 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0023.RAW

B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0023.RAW  
Date & Time Acquired: 11/4/2021 1:41:58 AM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.276	.196	.185	94.58	-
*1-Chlorooctadecane	13.078	.196	.146	74.53	-
*#Triacontane	16.332	.196	.086	43.87	-

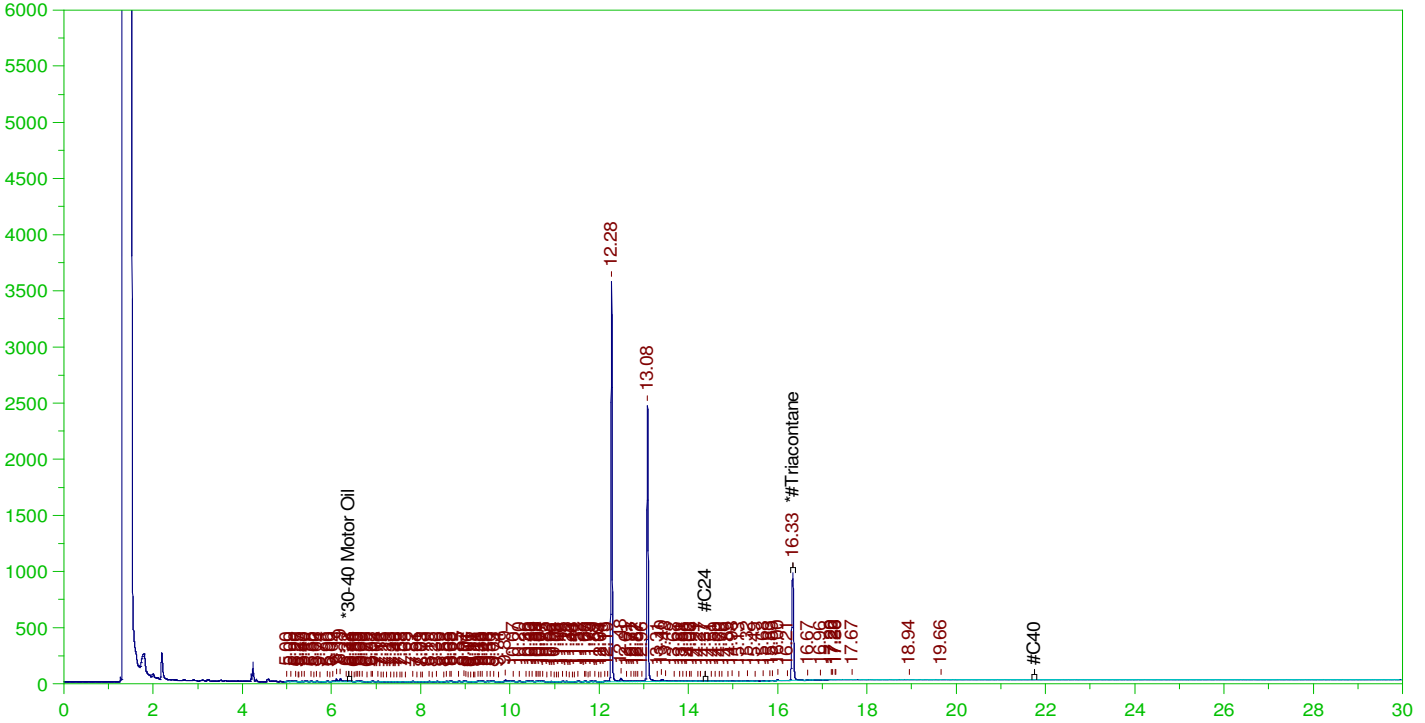
DRO Area: 716207.6 DRO Amount: 2.239531E-02  
TEH Area: 1088499 TEH Amount: 3.403658E-02

ERH1680 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0023.RAW

B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0023.RAW  
Date & Time Acquired: 11/4/2021 1:41:58 AM  
Method File: G:\Org\HP5\Methods\DR\_OROS-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.332	.49	.086	17.55	-

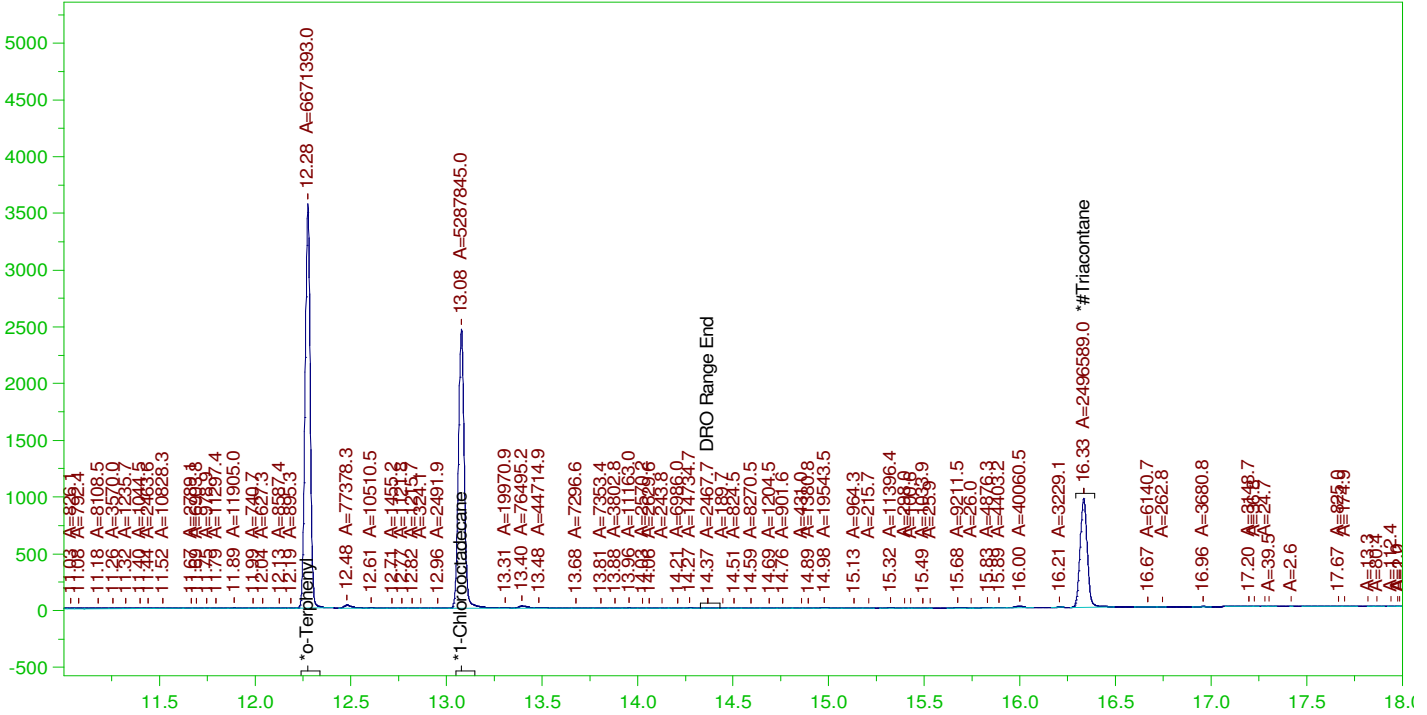
RRO Area:185816 RRO AMOUNT: 6.382523E-03

ERH1680 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0023.RAW

B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0023.RAW  
Date & Time Acquired: 11/4/2021 1:41:58 AM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

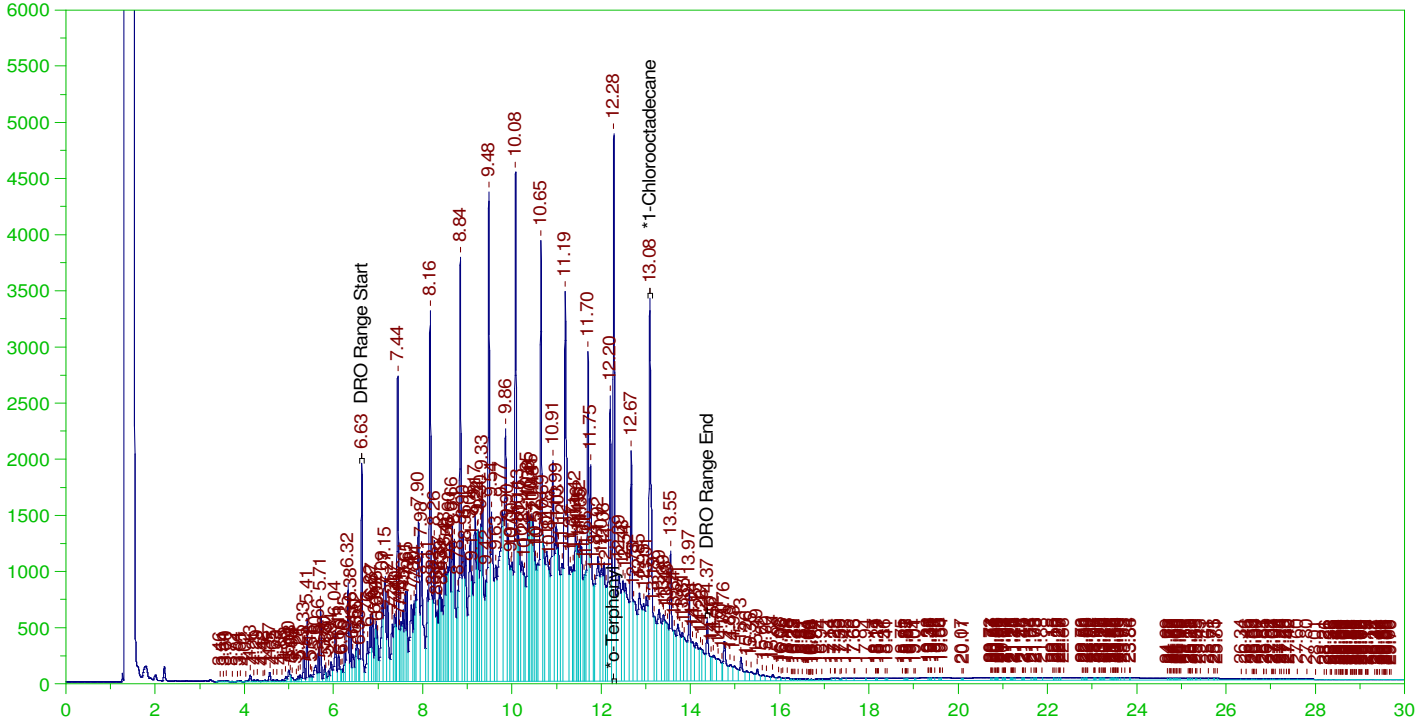
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.276	.196	.184	93.94	-
*1-Chlorooctadecane	13.078	.196	.146	74.46	-
*#Triacontane	16.332	.196	.085	43.15	-

DRO Area: 698510.8 DRO Amount: 2.184194E-02  
TEH Area: 1816511 TEH Amount: 5.680101E-02

Batch ID: 160878

B21110079-001BMS ;1103HP5 ,

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0024.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-001BMS ;1103HP5 ,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0024.RAW  
Date & Time Acquired: 11/4/2021 2:25:00 AM  
Method File: G:\Org\HP5\Methods\D3\_8015-110324-24-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

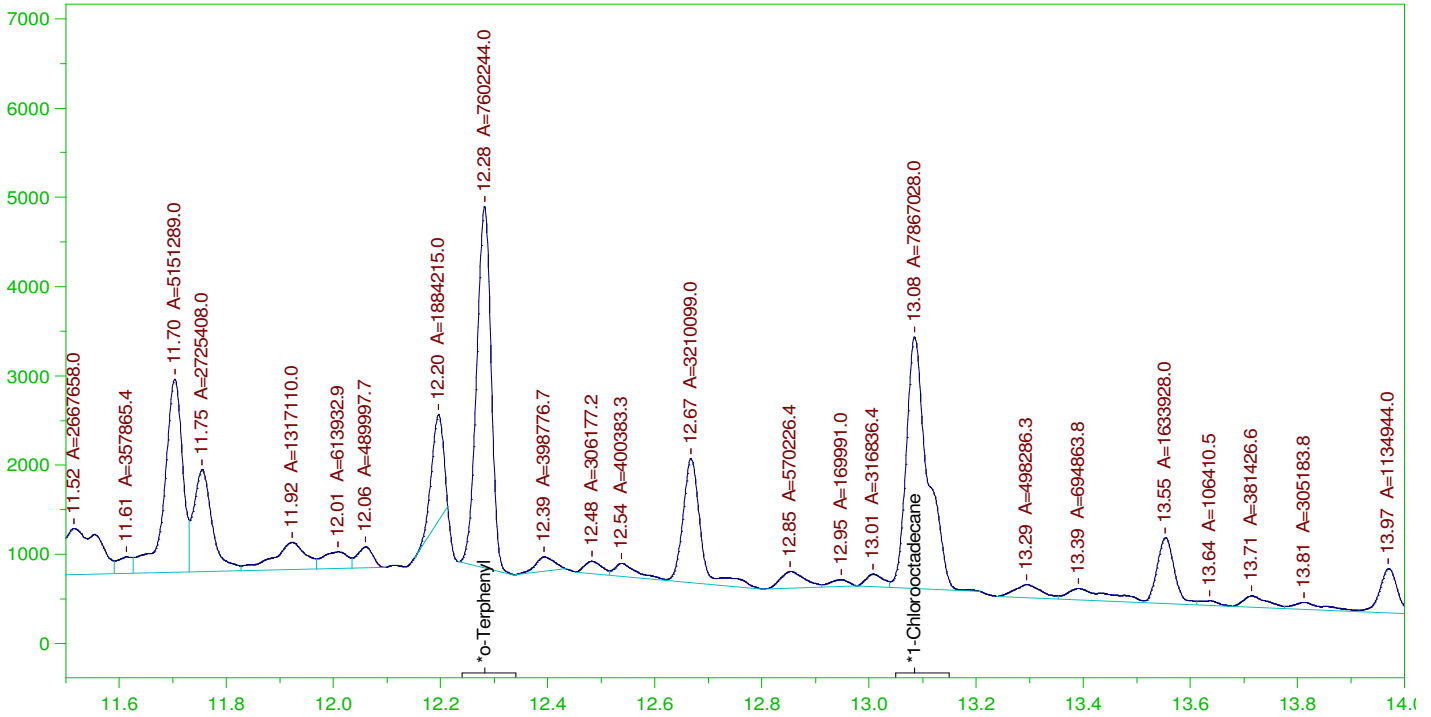
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.282	.192	.345	179.48 -
*1-Chlorooctadecane	13.085	.192	.342	177.59 -

DRO Area: 4.208087E+08 DRO Amount: 12.90534  
TEH Area: 4.597761E+08 TEH Amount: 14.1004

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0024.RAW

B21110079-001BMS ;1103HP5 ,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-001BMS ;1103HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0024.RAW  
 Date & Time Acquired: 11/4/2021 2:25:00 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

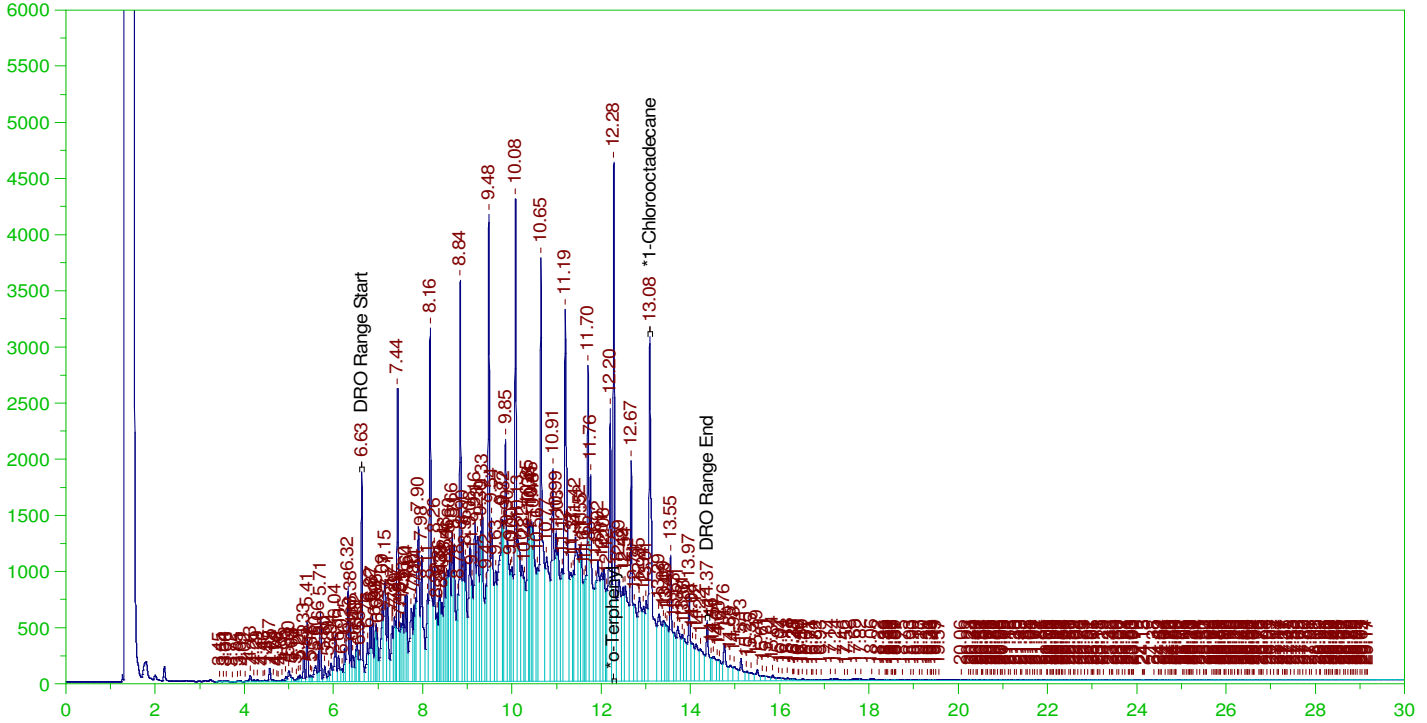
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.282	.192	.206	107.05
*1-Chlorooctadecane	13.085	.192	.213	110.77

DRO Area: 2.089805E+08 DRO Amount: 6.409008  
 TEH Area: 2.241277E+08 TEH Amount: 6.873541

Batch ID: 160878

B21110079-001BMSD ;1103HP5 ,

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0025.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-001BMSD ;1103HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0025.RAW  
 Date & Time Acquired: 11/4/2021 3:07:51 AM  
 Method File: G:\Org\HP5\Methods\D3\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

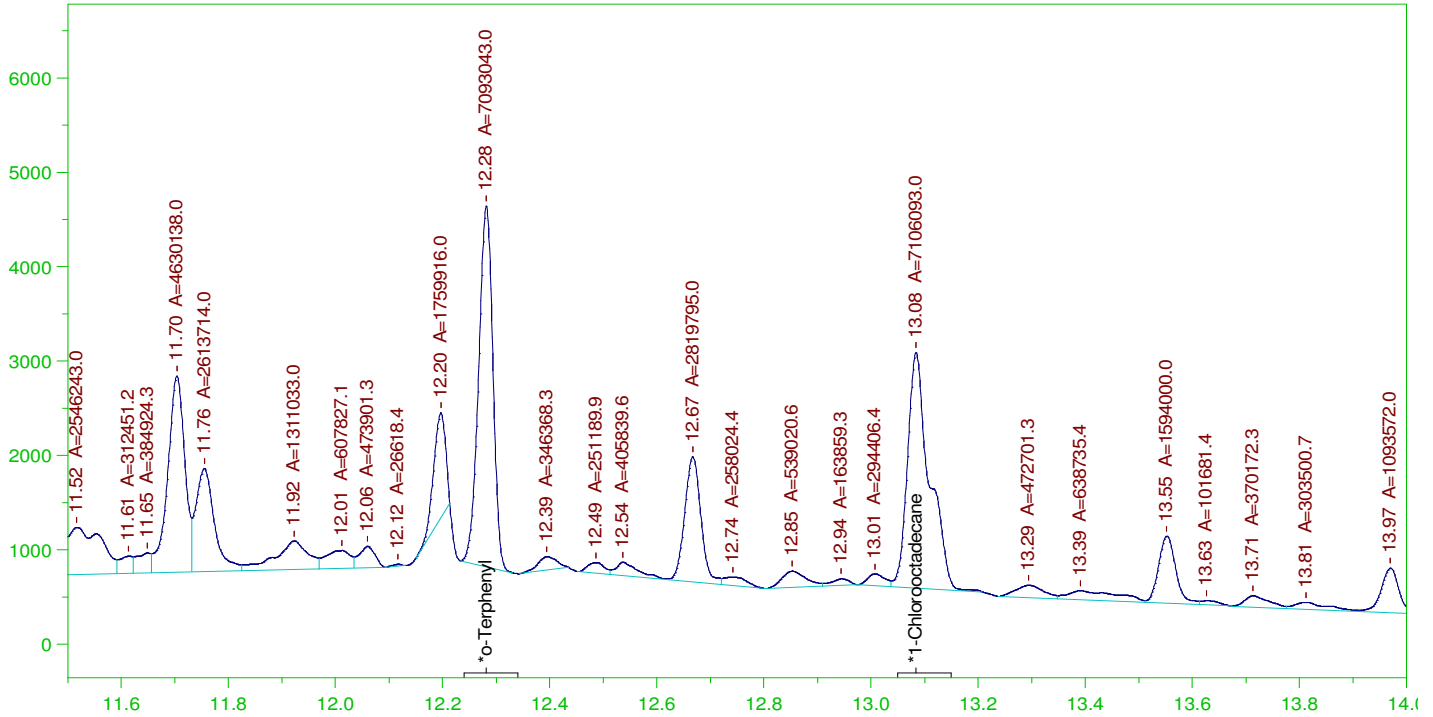
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.282	.196	.336	171.37 -
*1-Chlorooctadecane	13.084	.196	.377	192.51 -

DRO Area: 4.020414E+08 DRO Amount: 12.57155  
 TEH Area: 4.334896E+08 TEH Amount: 13.55491

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0025.RAW

B21110079-001BMSD ;1103HP5 ,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

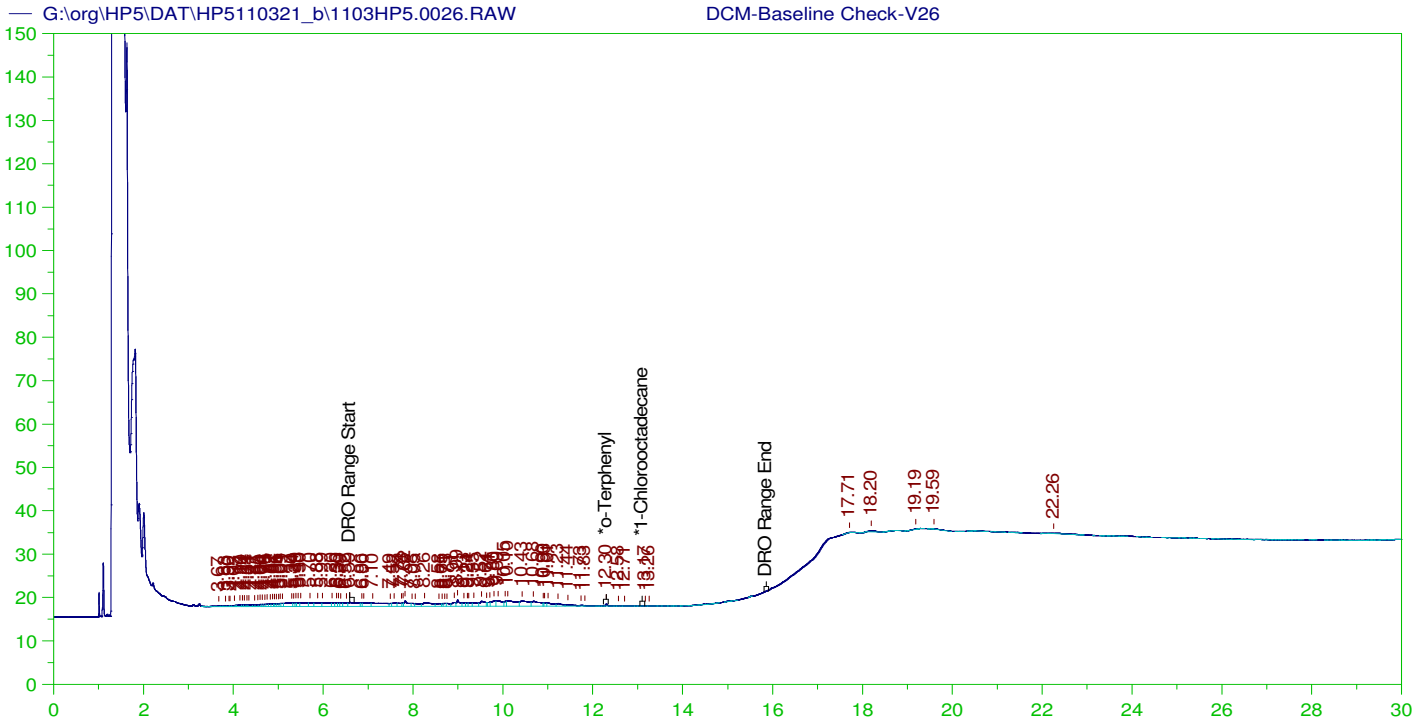
Sample Name: B21110079-001BMSD ;1103HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0025.RAW  
 Date & Time Acquired: 11/4/2021 3:07:51 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.282	.196	.196	99.88
*1-Chlorooctadecane	13.084	.196	.196	100.06

DRO Area: 2.010483E+08 DRO Amount: 6.286637  
 TEH Area: 2.155515E+08 TEH Amount: 6.740143



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V26  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0026.RAW  
 Date & Time Acquired: 11/4/2021 3:50:44 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

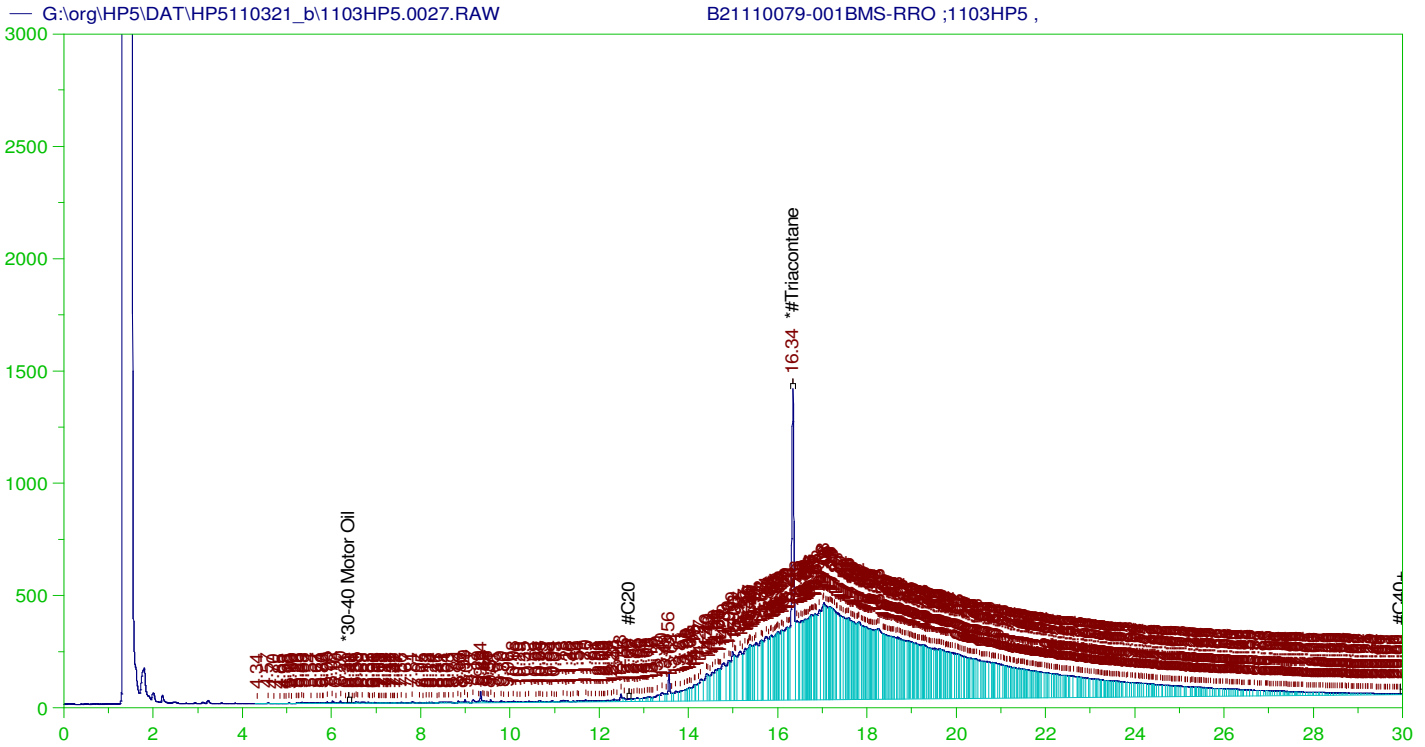
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.295	200.	.06	.03	-
*1-Chlorooctadecane	29.982	200.	.	.	-

DRO Area:257805.4 DRO Amount: 8.222619  
 TEH Area:383643 TEH Amount: 12.23617





**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

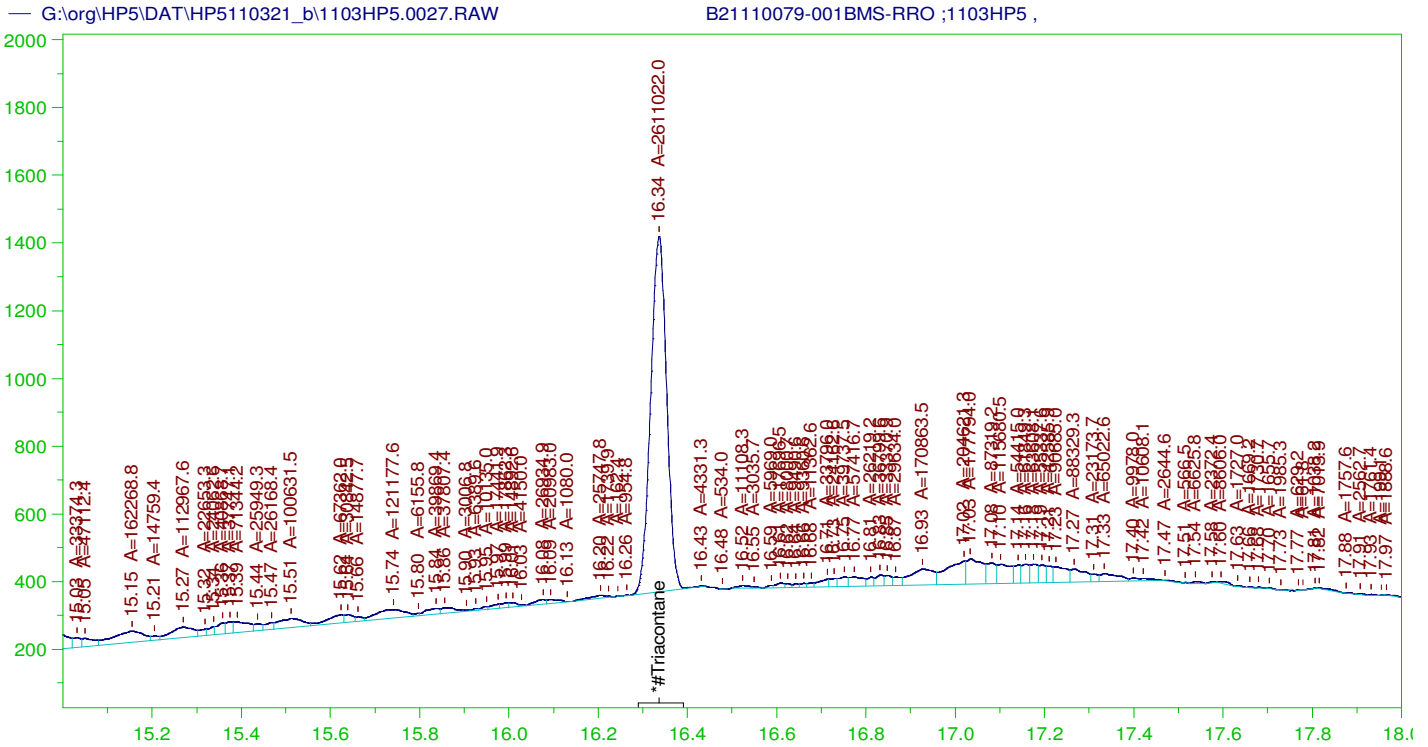
Sample Name: B21110079-001BMS-RRO ;1103HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0027.RAW  
 Date & Time Acquired: 11/4/2021 4:33:41 AM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 28542.41  
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.336	.476	.167	34.99	-

~~RRO~~ TEH (Oil Range) Area:1.319876E+08      ~~RRO~~ TEH (Oil Range) AMOUNT: 4.404061

AMN 11/16/2021



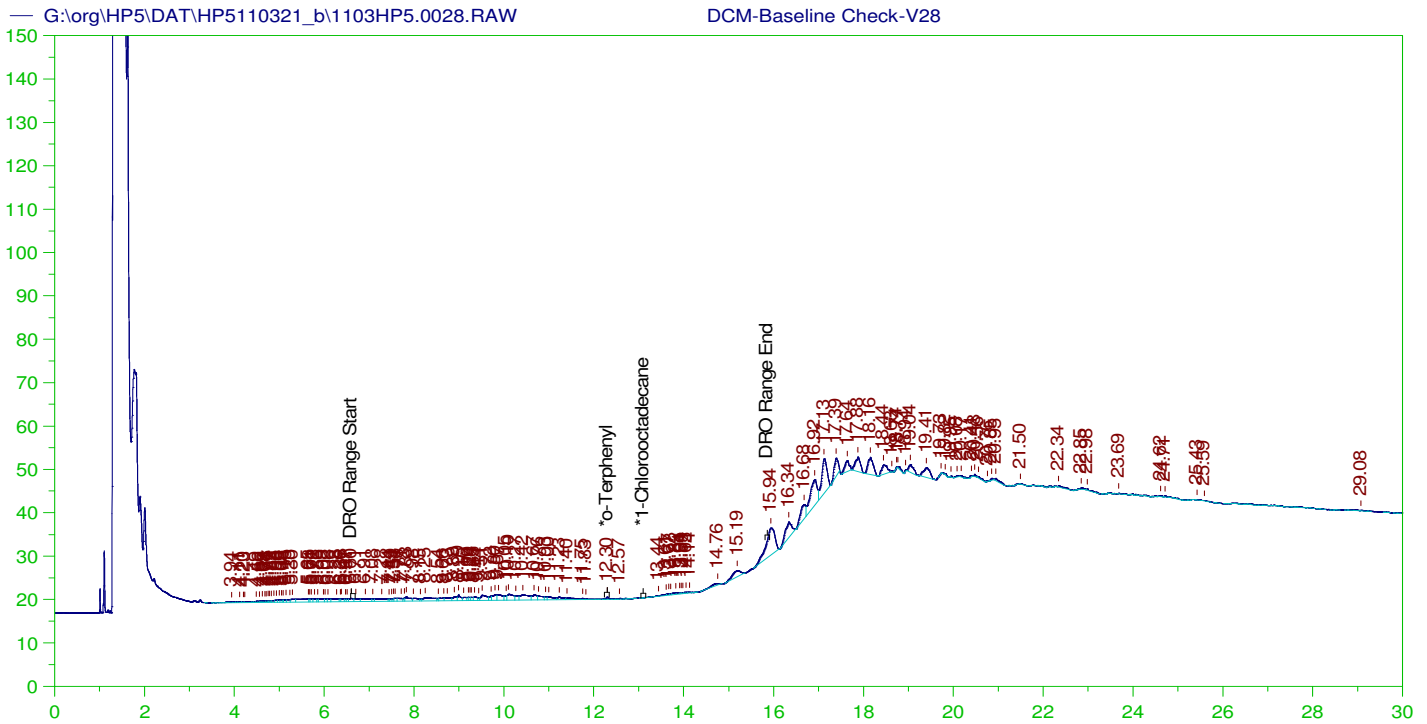
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110079-001BMS-RRO ;1103HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0027.RAW  
 Date & Time Acquired: 11/4/2021 4:33:41 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.336	.476	.086	18.05

RRO Area:4405623 RRO AMOUNT: 0.1470034



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

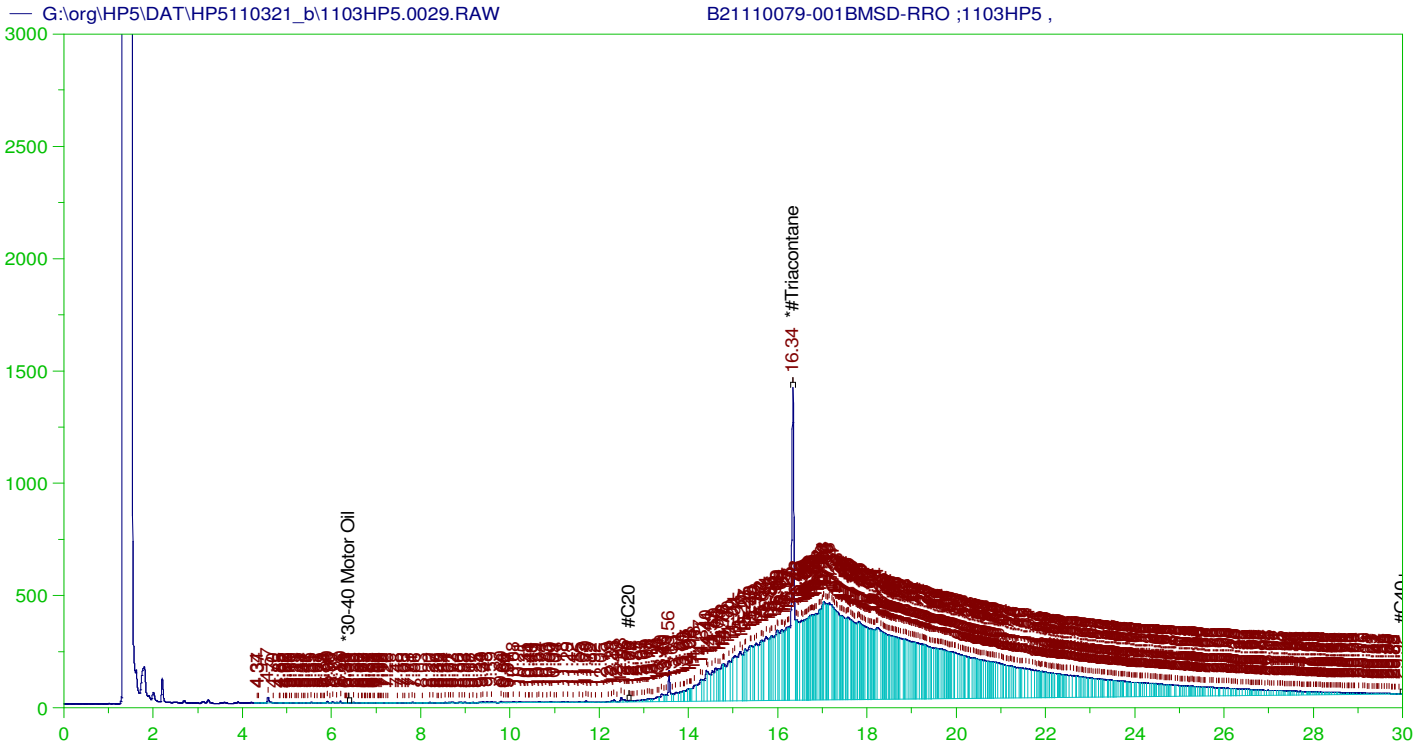
Sample Name: DCM-Baseline Check-V28  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0028.RAW  
 Date & Time Acquired: 11/4/2021 5:16:28 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-IA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	12.296	200.	.055	.03
*1-Chlorooctadecane	29.921	200.	.	.

DRO Area:257911.5 DRO Amount: 8.226006  
 TEH Area:824858.4 TEH Amount: 26.3086



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

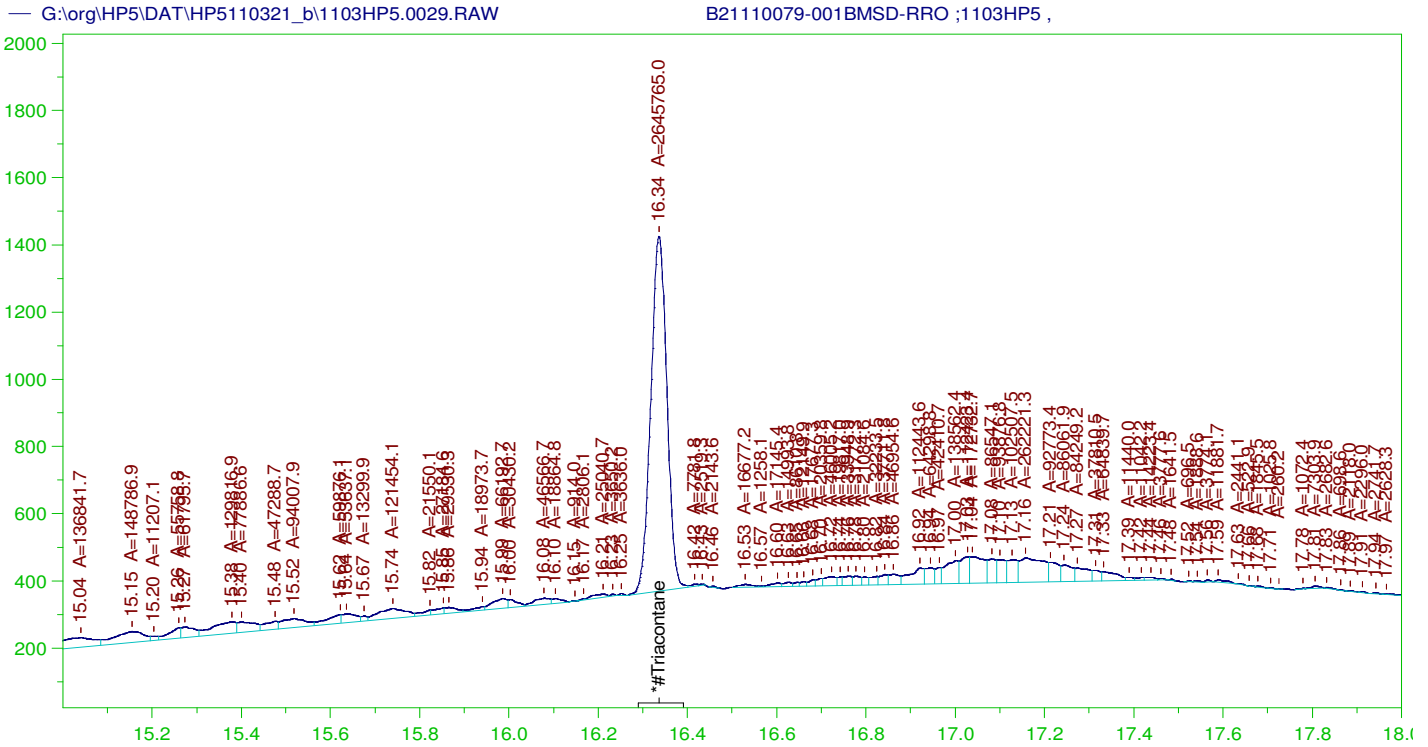
Sample Name: B21110079-001BMSD-RRO ;1103HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0029.RAW  
 Date & Time Acquired: 11/4/2021 5:59:27 AM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.CAL  
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 28542.41  
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.336	.472	.177	37.54	-

~~RRO~~ TEH (Oil Range) Area:1.339226E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 4.426467

AMN 11/16/2021



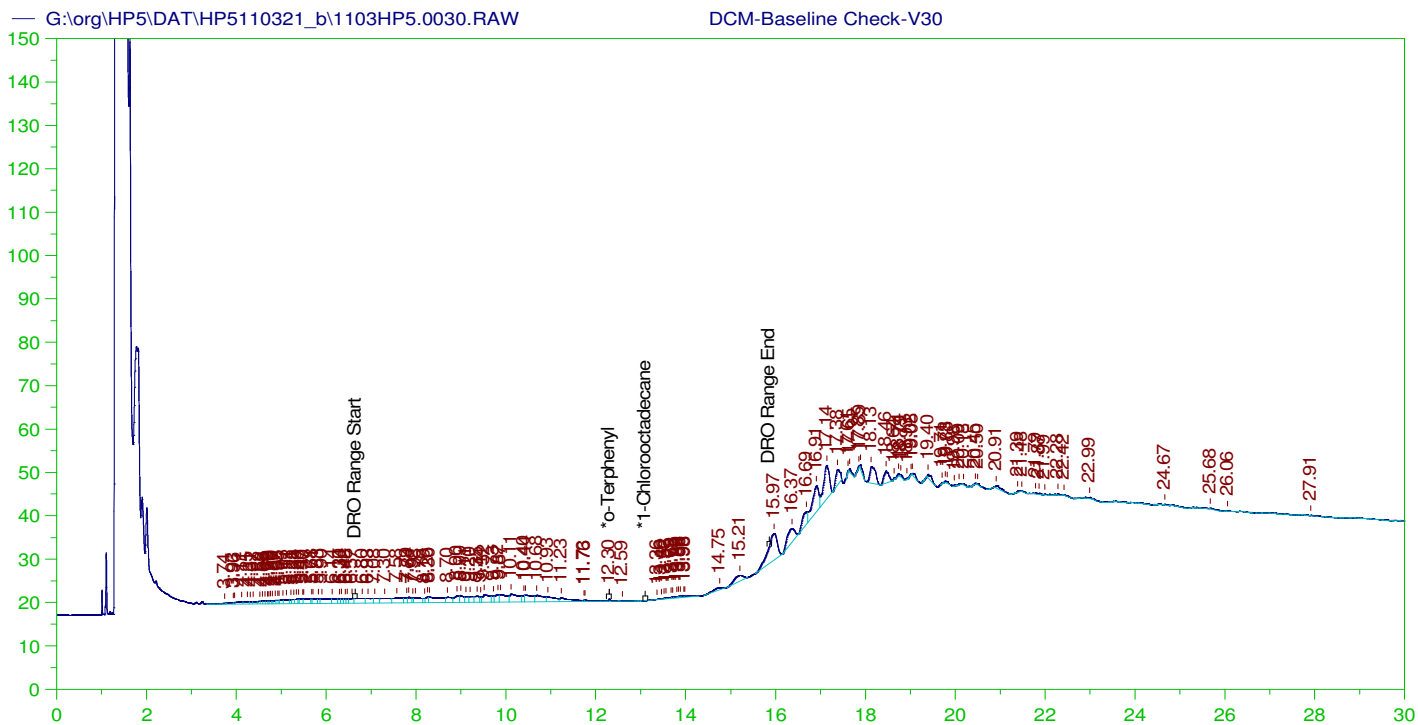
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110079-001BMSD-RRO ;1103HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0029.RAW  
 Date & Time Acquired: 11/4/2021 5:59:27 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.CAL  
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.336	.472	.086	18.29

RRO Area:4903399 RRO AMOUNT: 0.1620693



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

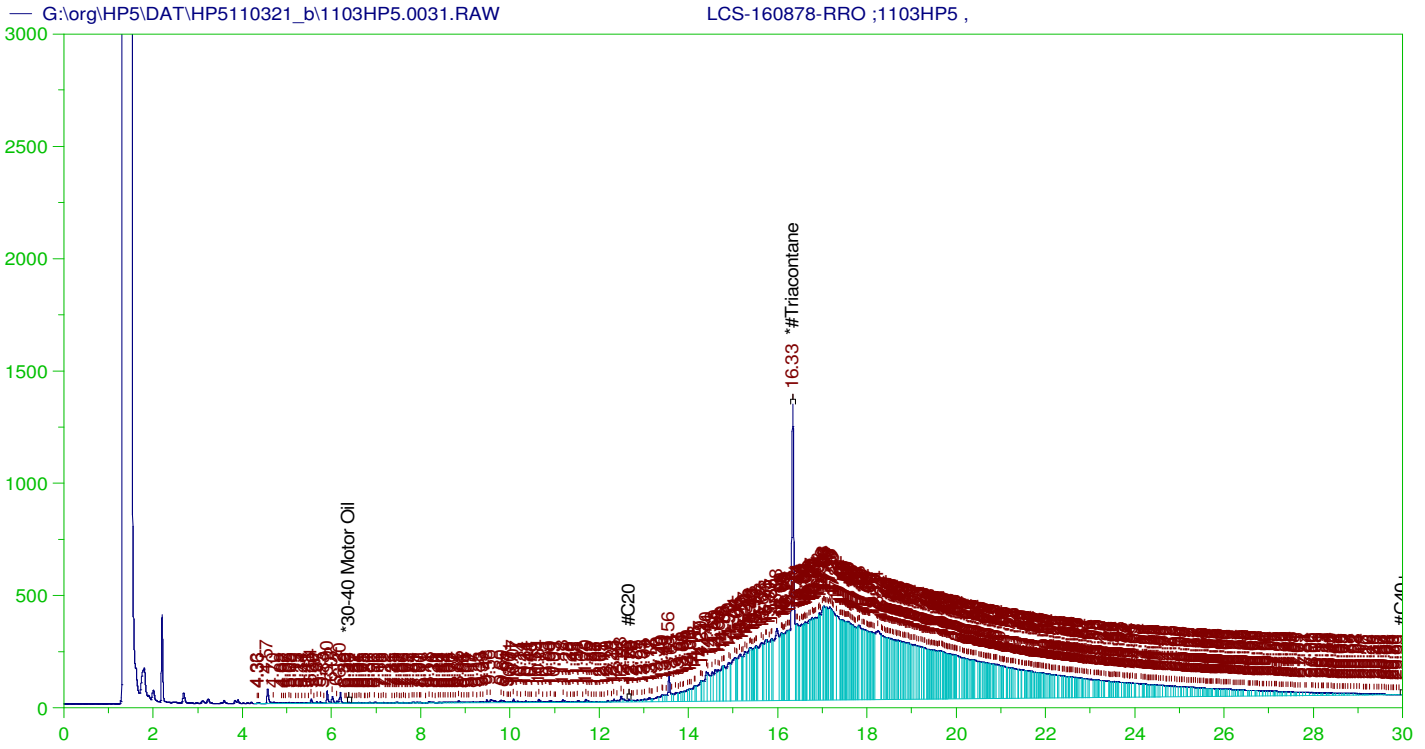
Sample Name: DCM-Baseline Check-V30  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0030.RAW  
 Date & Time Acquired: 11/4/2021 6:42:18 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-IA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	12.298	200.	.071	.04
*1-Chlorooctadecane	29.924	200.	.	.

DRO Area:402986.2      DRO Amount: 12.85312  
 TEH Area:988165.9      TEH Amount: 31.51724



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: LCS-160878-RRO ;1103HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0031.RAW  
 Date & Time Acquired: 11/4/2021 7:25:14 AM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

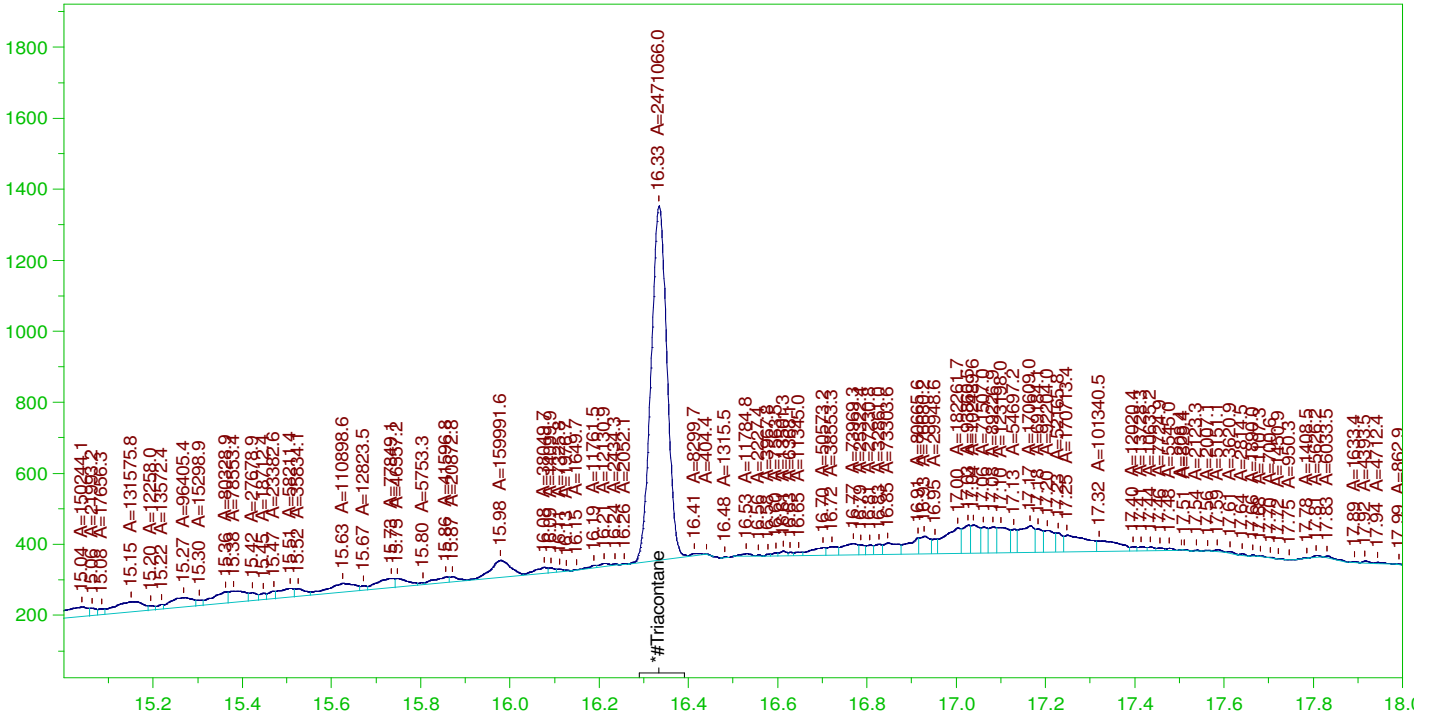
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.334	.5	.174	34.84

RRO TEH (Oil Range) Area:1.275741E+08 RRO TEH (Oil Range) AMOUNT: 4.469633

AMN 11/16/2021

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0031.RAW

LCS-160878-RRO ;1103HP5 ,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

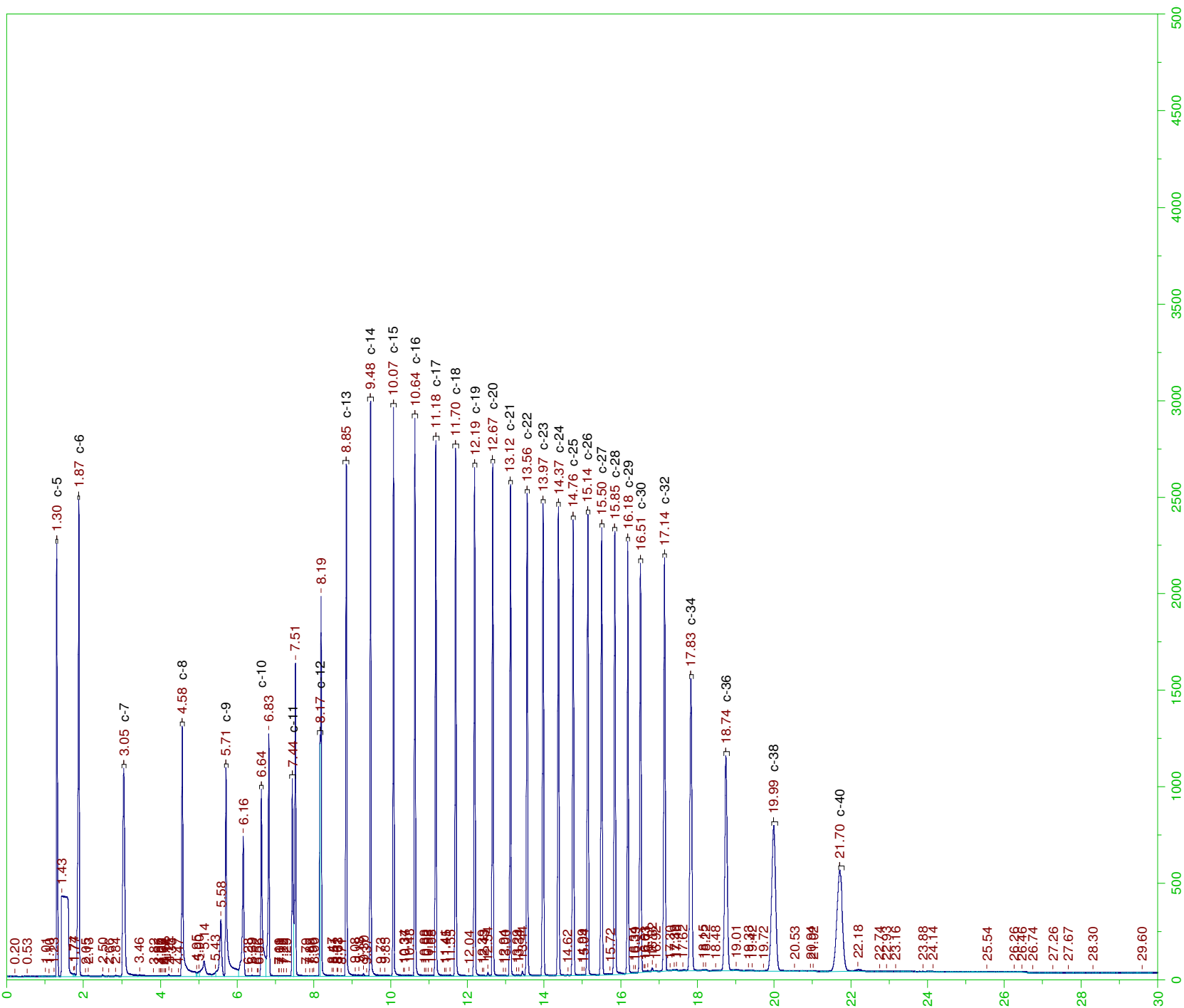
Sample Name: LCS-160878-RRO ;1103HP5 ,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0031.RAW  
Date & Time Acquired: 11/4/2021 7:25:14 AM  
Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.334	.5	.085	17.08

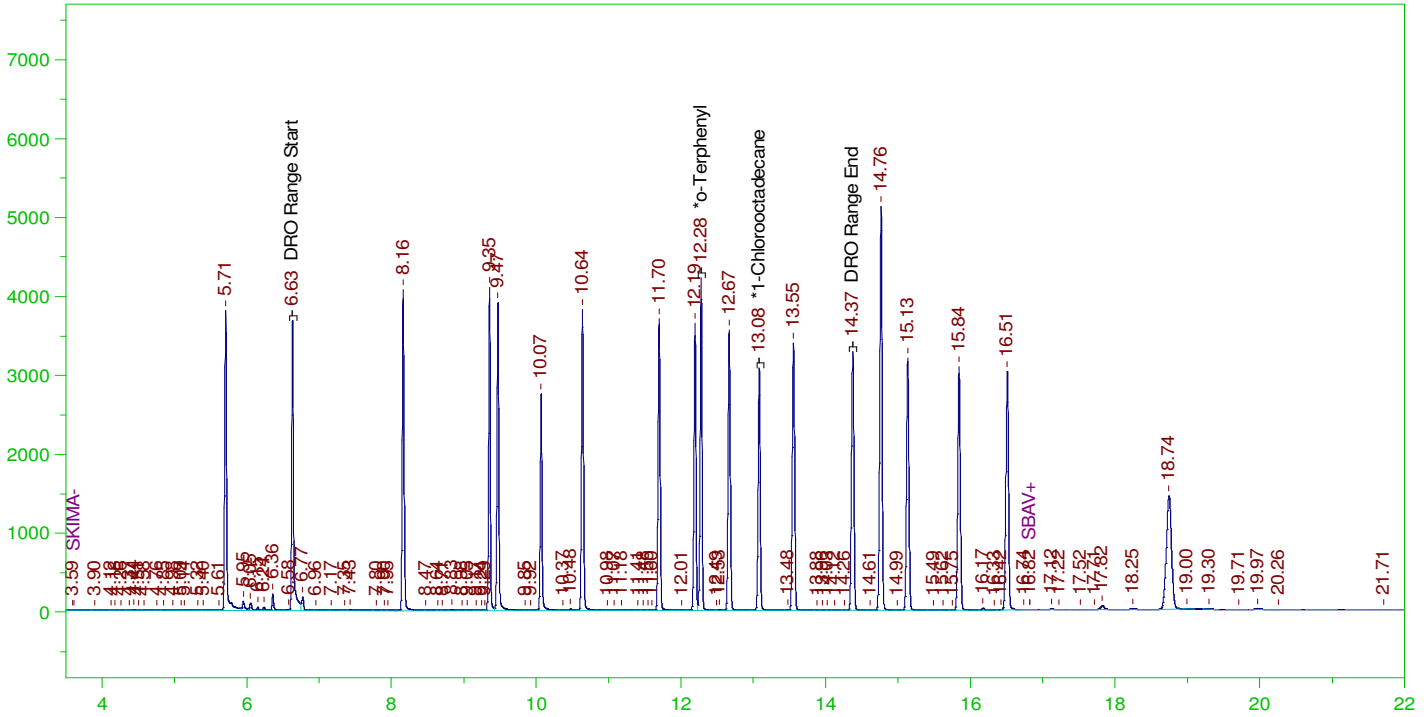
RRO Area:4875617 RRO AMOUNT: 0.1708201





G:\org\HP5\DAT\HP5110321\_b\1103HP5.0033.RAW

MARKER\_1103HP533r, DRO ;1103HP5 , DRO211012I



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

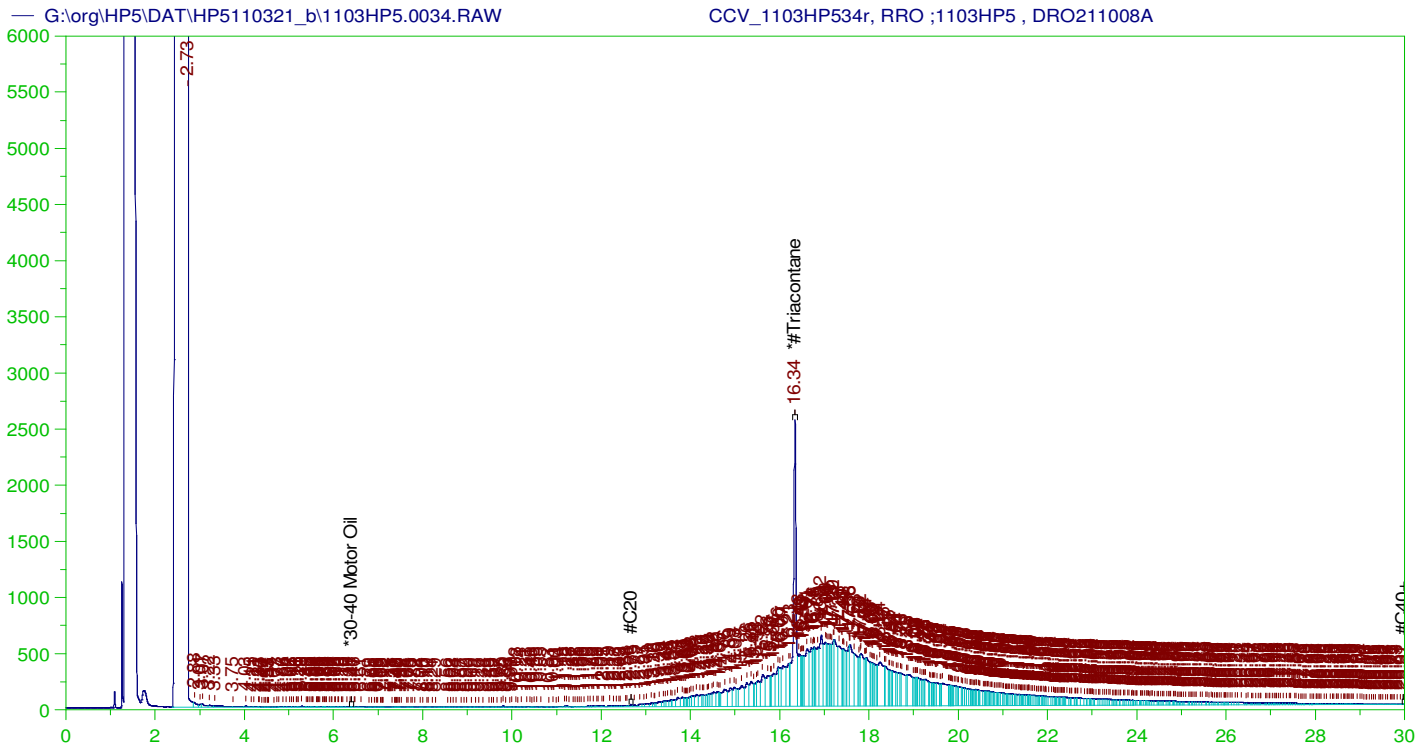
Sample Name: MARKER\_1103HP533r, DRO ;1103HP5 , DRO211012I  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0033.RAW  
 Date & Time Acquired: 11/4/2021 8:51:08 AM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO21102IA-24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.279	.2	.224	112.01	-
*1-Chlorooctadecane	13.081	.2	.181	90.66	-

DRO Area: 7.744196E+07 DRO Amount: 2.469987  
 TEH Area: 1.276047E+08 TEH Amount: 4.069911



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP534r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0034.RAW  
 Date & Time Acquired: 11/4/2021 9:34:10 AM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.338	500.	334.838	66.97	-

RRO TEH (Oil Range) Area:1.366711E+08 RRO TEH (Oil Range) AMOUNT: 4788.352

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0034.RAW

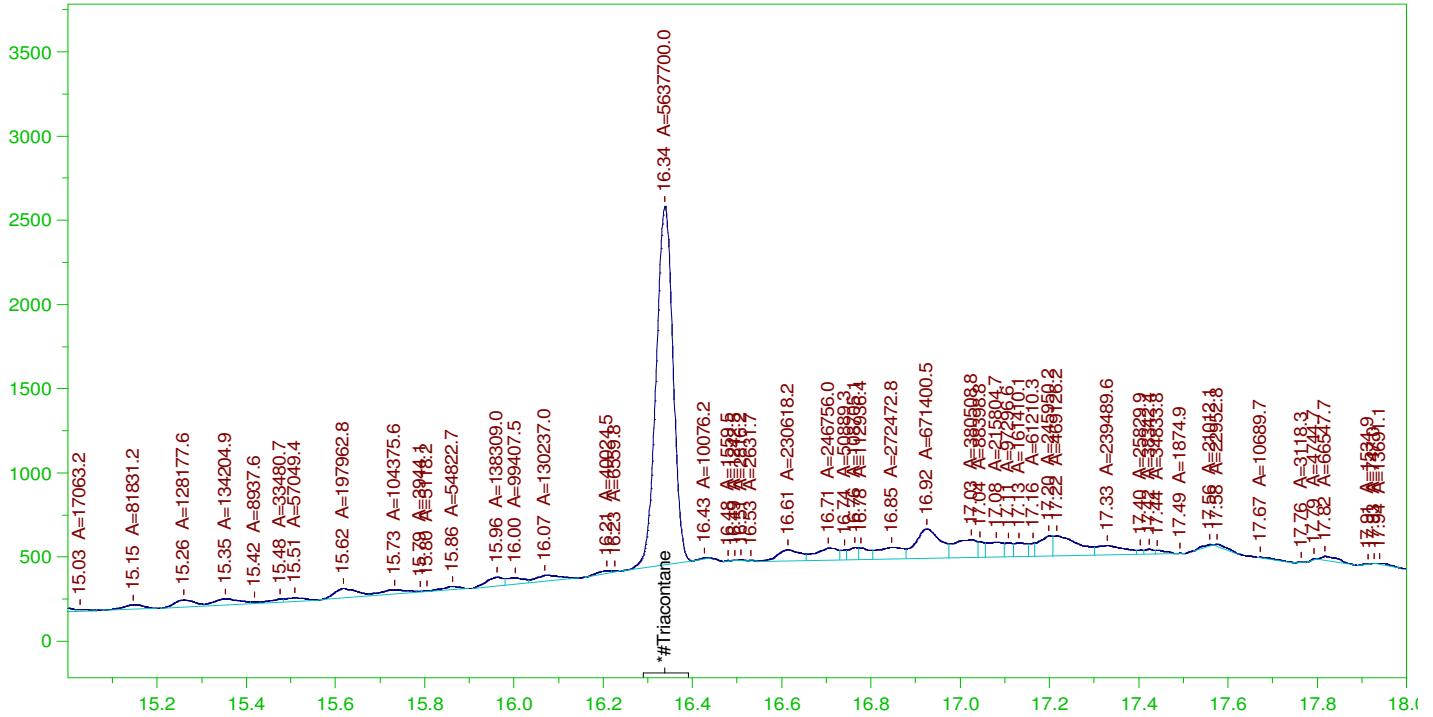
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.395	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.338	200.	334.838	167.42	75-125

AMN 11/16/2021

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0034.RAW

CCV\_1103HP534r, RRO ;1103HP5 , DRO211008A



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP534r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0034.RAW  
 Date & Time Acquired: 11/4/2021 9:34:10 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.338	500.	194.873	38.97	-

RRO Area:6534123 RRO AMOUNT: 228.9268

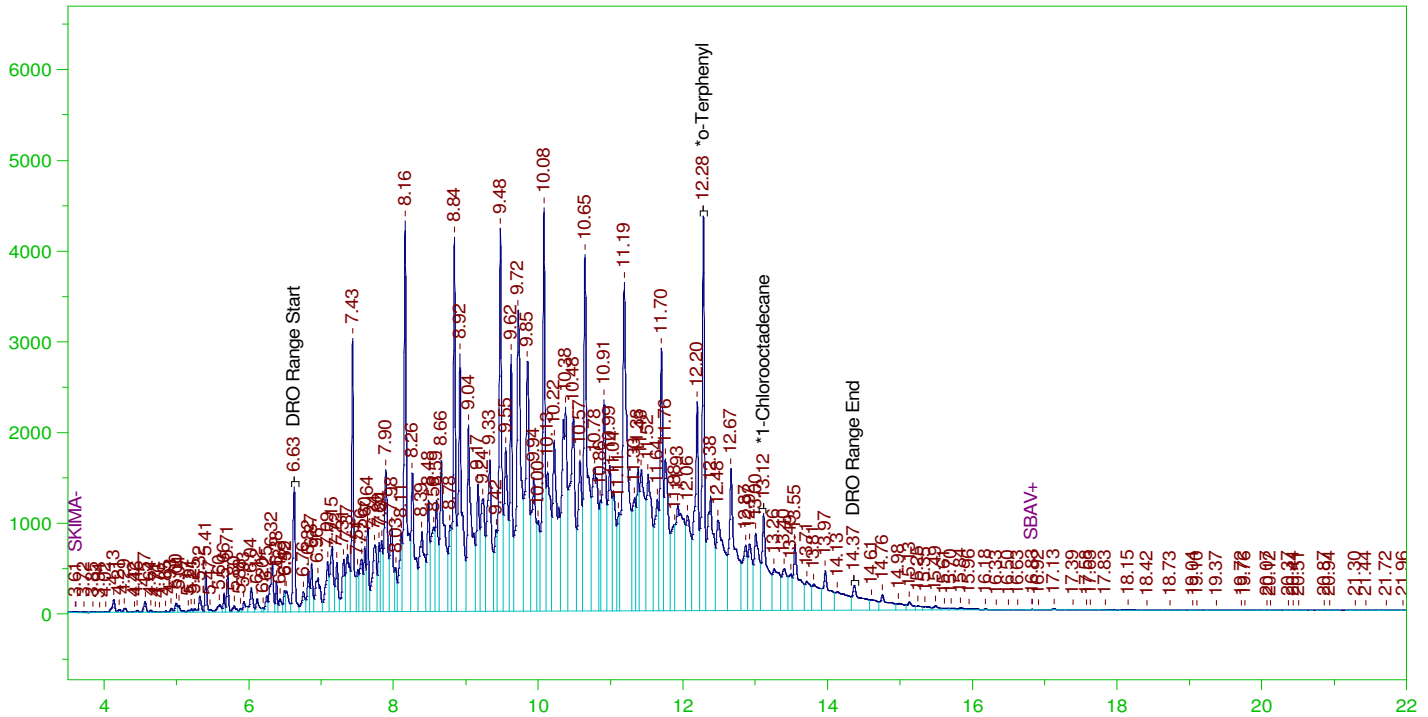
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0034.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.395	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.338	200.	194.873	97.44	75-125

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0035.RAW

CCV\_1103HP535r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP535r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0035.RAW  
 Date & Time Acquired: 11/4/2021 10:17:15 AM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.282	200.	314.379	157.19
*1-Chlorooctadecane	13.115	200.	150.295	75.15

DRO Area: 4.374999E+08 DRO Amount: 13953.92  
 TEH Area: 4.528458E+08 TEH Amount: 14443.37

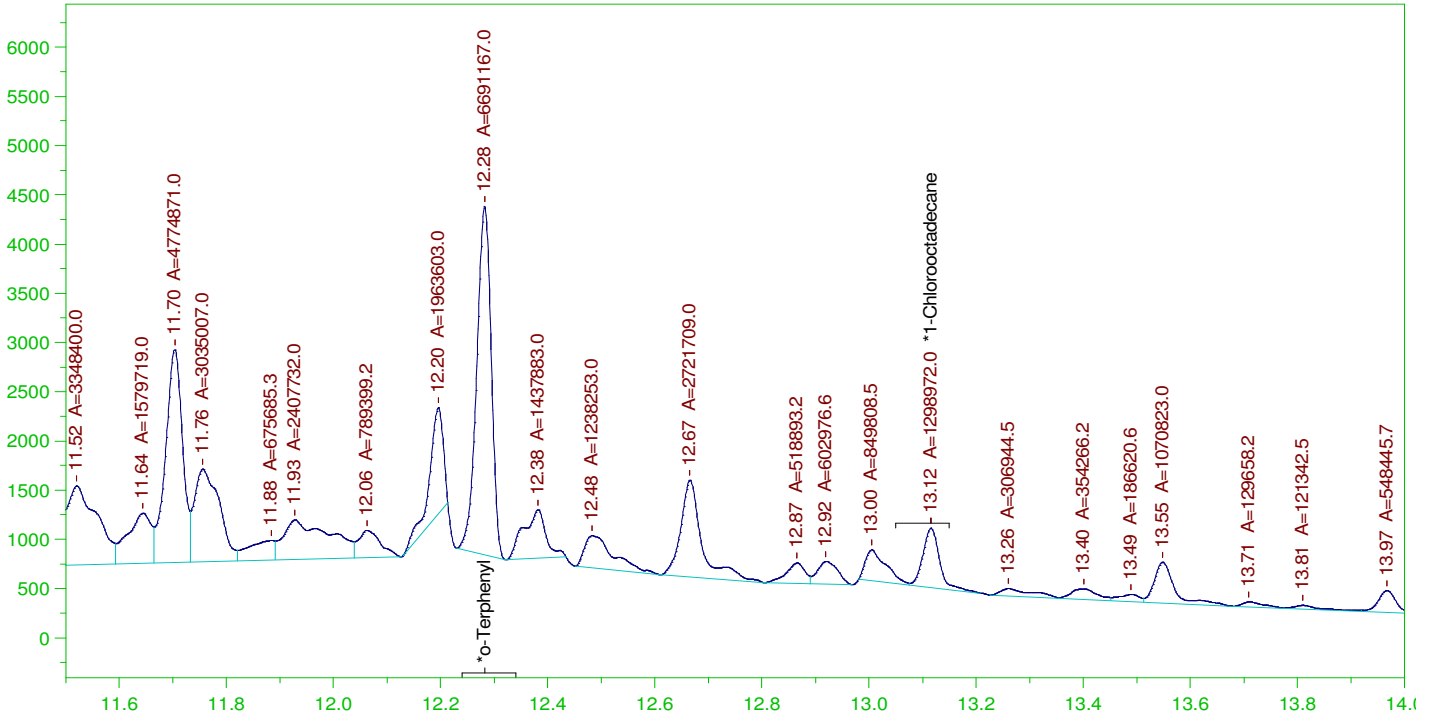
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0035.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14443.37	96.29	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.282	200.	314.379	157.19	85-115
*1-Chlorooctadecane	13.115	200.	150.295	75.15	85-115

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0035.RAW

CCV\_1103HP535r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP535r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0035.RAW  
 Date & Time Acquired: 11/4/2021 10:17:15 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

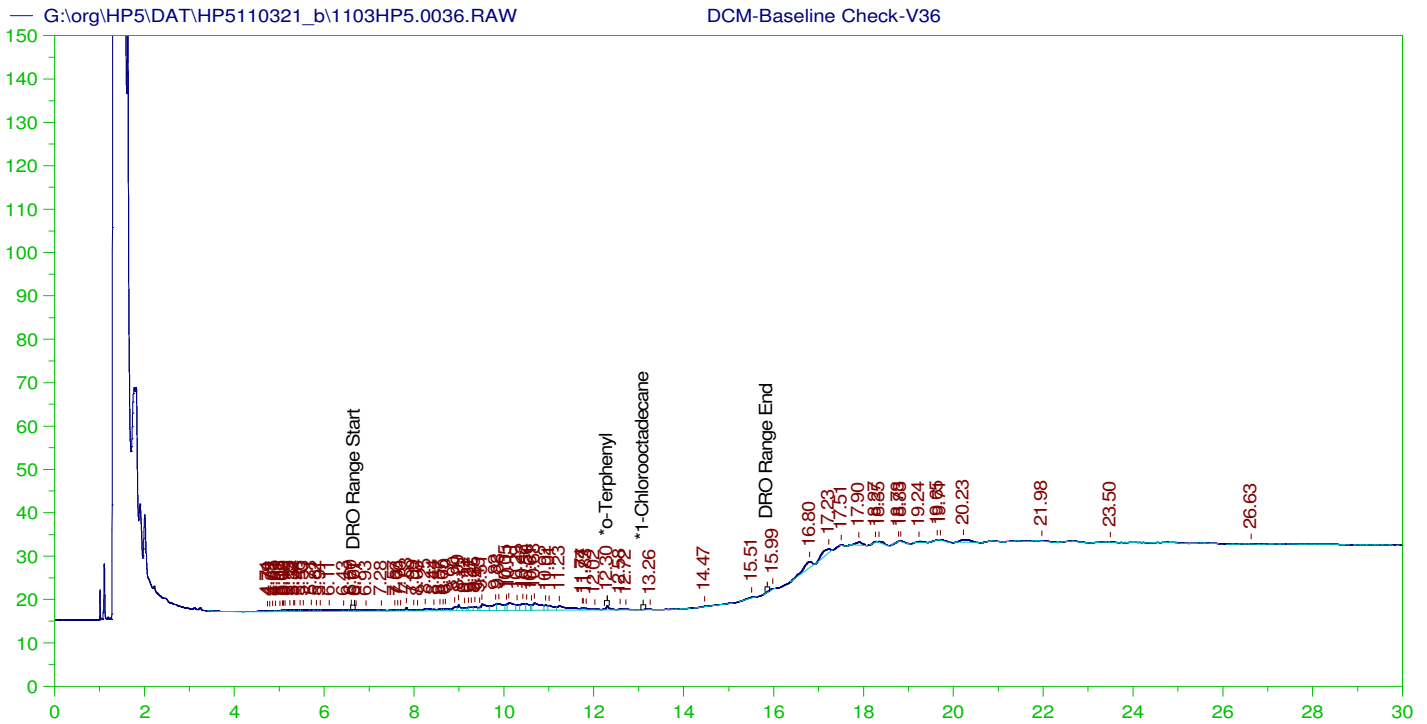
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.282	200.	188.435	94.22
*1-Chlorooctadecane	13.115	200.	36.581	18.29

DRO Area: 2.475181E+08 DRO Amount: 7894.51  
 TEH Area: 2.576077E+08 TEH Amount: 8216.313

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0035.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8216.31	54.78	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.282	200.	188.435	94.22	85-115
*1-Chlorooctadecane	13.115	200.	36.581	18.29	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

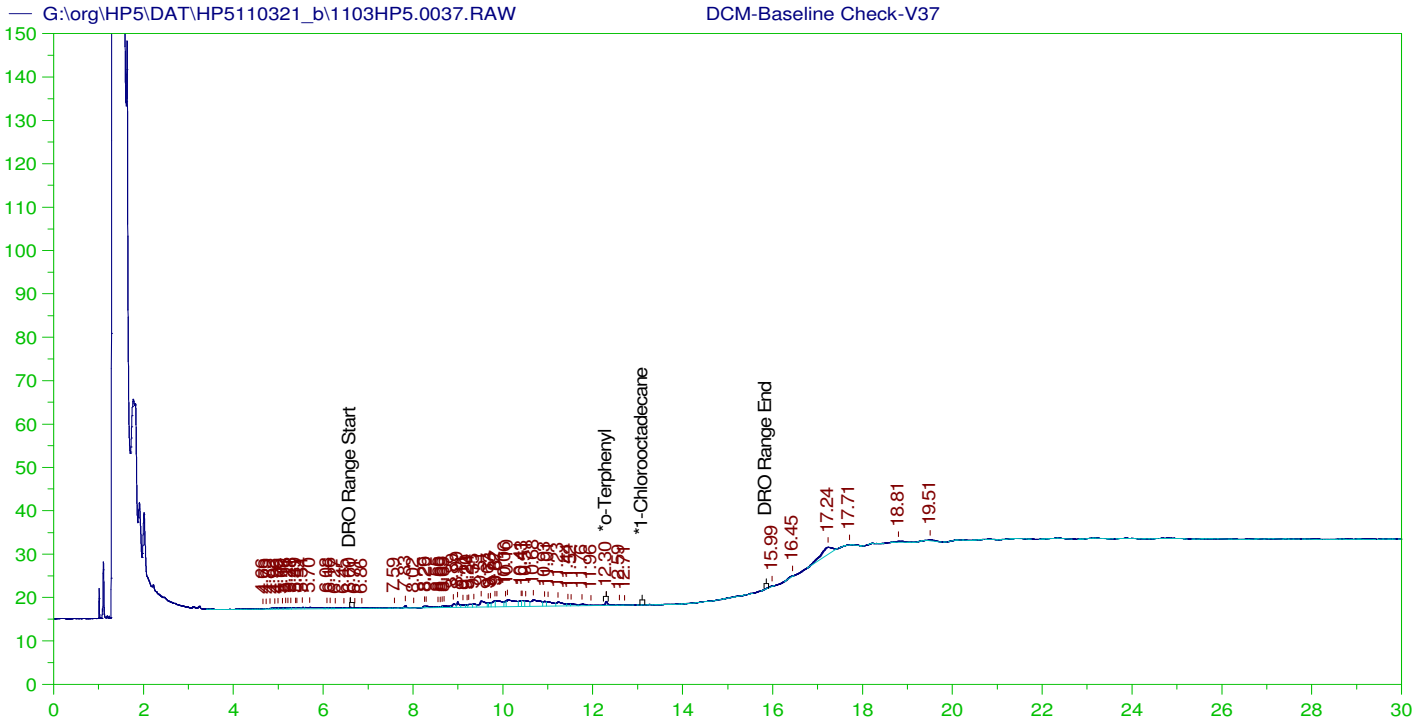
Sample Name: DCM-Baseline Check-V36  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0036.RAW  
 Date & Time Acquired: 11/4/2021 11:00:26 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-IA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	12.295	200.	.136	.07	-
*1-Chlorooctadecane	29.886	200.	.	.	-

DRO Area:224617.8 DRO Amount: 7.164114  
 TEH Area:339377.3 TEH Amount: 10.82433



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V37  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0037.RAW  
 Date & Time Acquired: 11/4/2021 11:44:06 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	12.295	200.	.128	.06	-
*1-Chlorooctadecane	29.962	200.	.	.	-

DRO Area:188616 DRO Amount: 6.015849  
 TEH Area:267892.8 TEH Amount: 8.544356

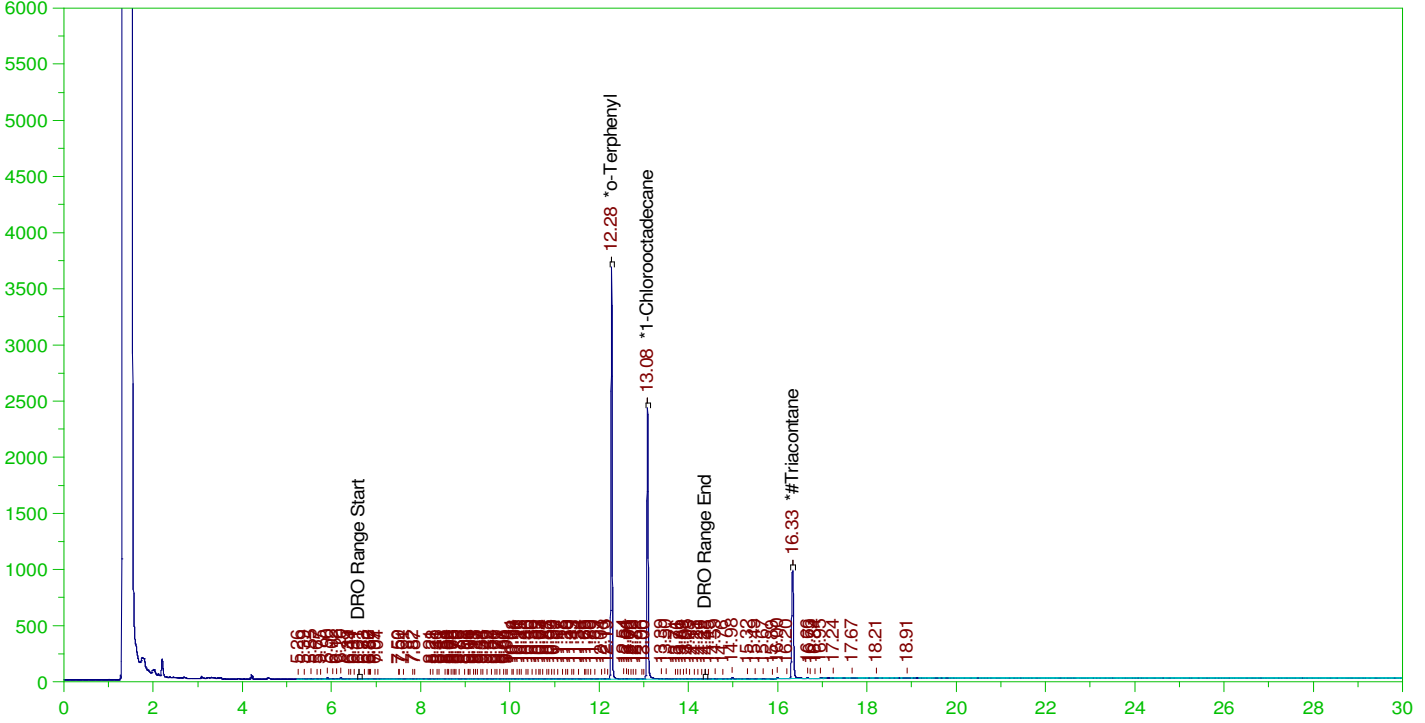


ERH1704 (RHMW10)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0038.RAW

B21110045-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110045-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0038.RAW  
Date & Time Acquired: 11/4/2021 12:27:16 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.276	.192	.187	97.15	-
*1-Chlorooctadecane	13.078	.192	.143	74.23	-
*#Triacontane	16.33	.192	.087	45.17	-

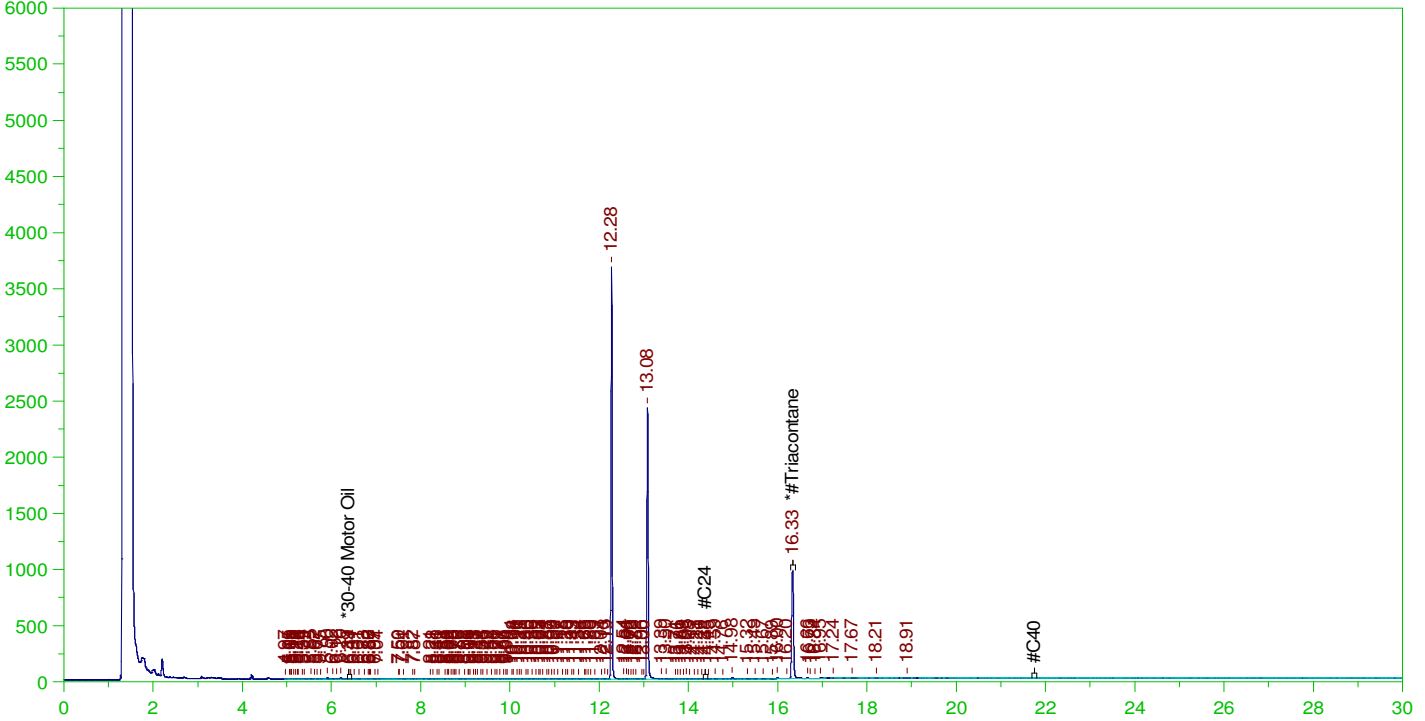
DRO Area: 494721.3 DRO Amount: 1.517209E-02  
TEH Area: 815705.7 TEH Amount: 2.501603E-02

ERH1704 (RHMW10)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0038.RAW

B21110045-001B ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110045-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0038.RAW  
Date & Time Acquired: 11/4/2021 12:27:16 PM  
Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-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: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.33	.481	.087	18.05

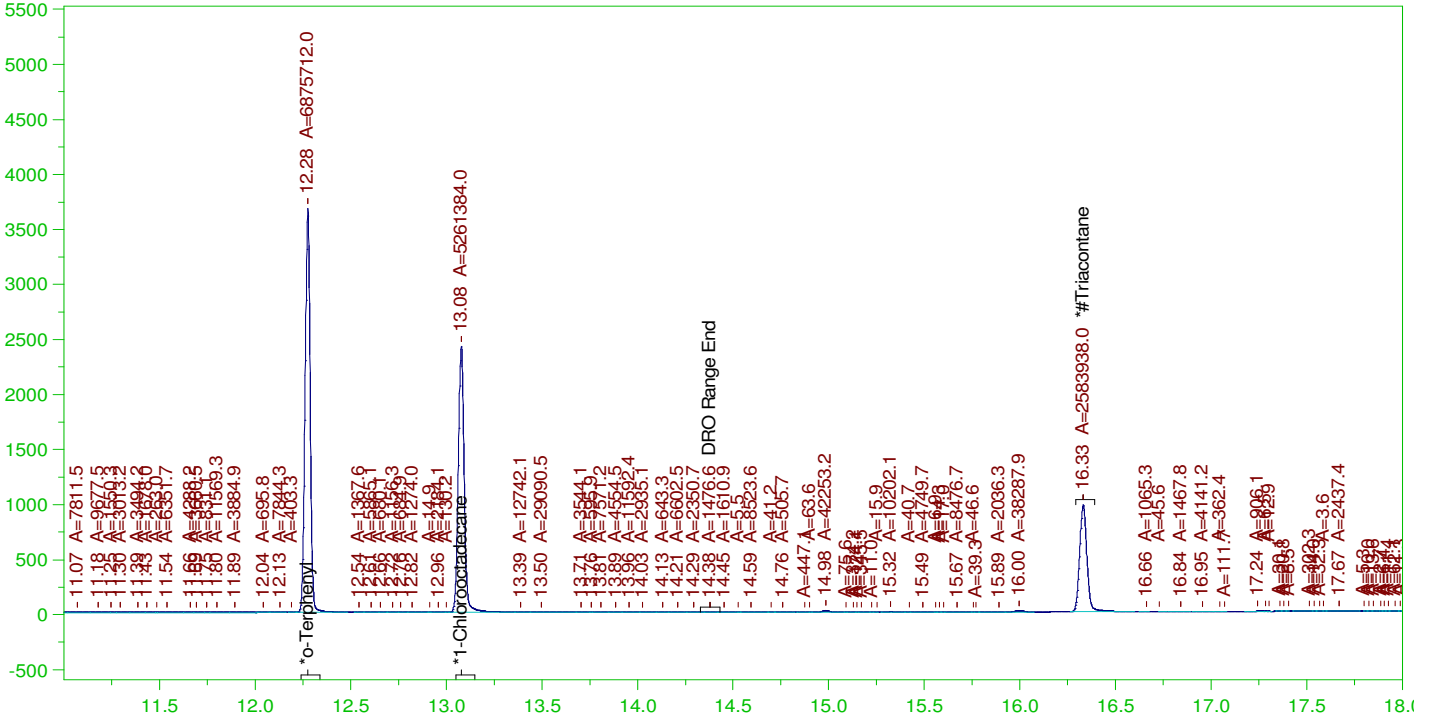
RRO Area:161508.5 RRO AMOUNT: 5.440907E-03

ERH1704 (RHMW10)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0038.RAW

B21110045-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110045-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0038.RAW  
Date & Time Acquired: 11/4/2021 12:27:16 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.276	.192	.186	96.82	-
*1-Chlorooctadecane	13.078	.192	.142	74.08	-
*#Triacontane	16.33	.192	.086	44.66	-

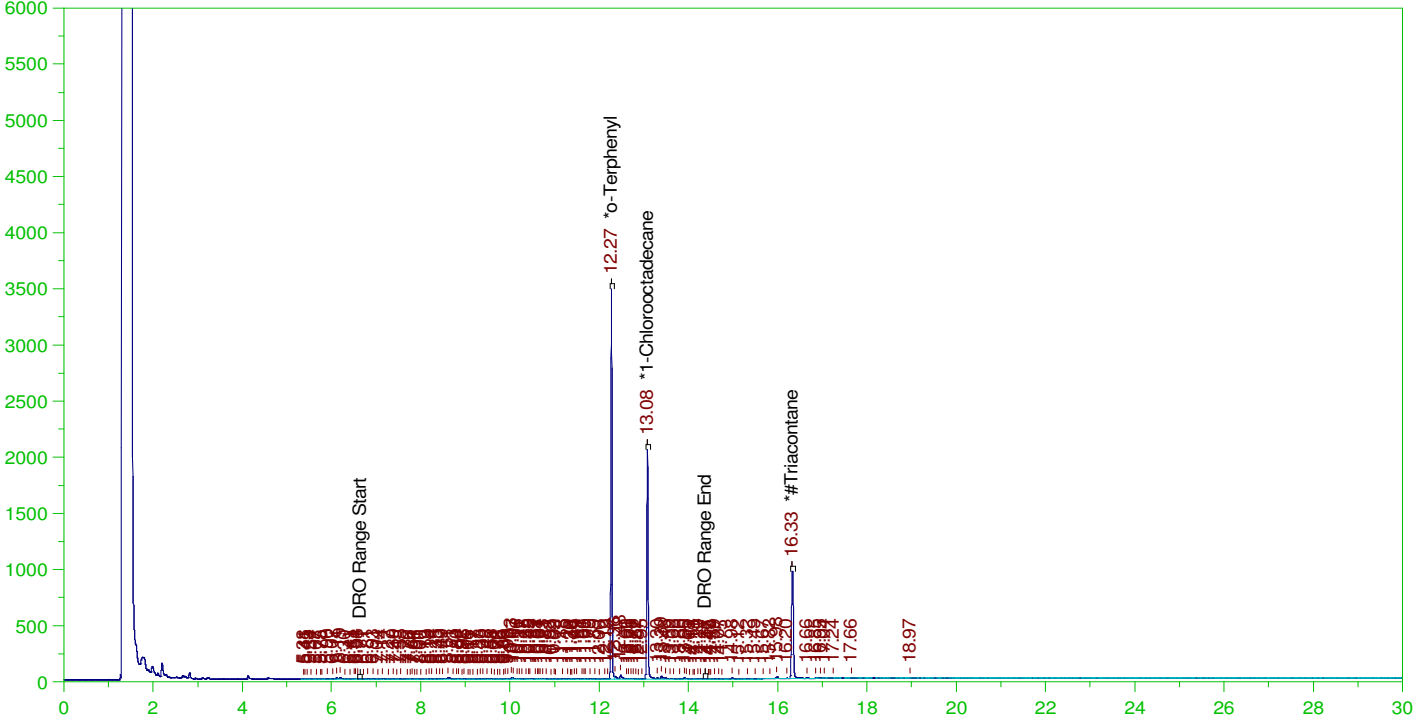
DRO Area: 513247.9 DRO Amount: 1.574027E-02  
TEH Area: 1304427 TEH Amount: 0.0400041

ERH1706 (RMHW12A)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0039.RAW

B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0039.RAW  
Date & Time Acquired: 11/4/2021 1:10:35 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.273	.19	.174	91.53	-
*1-Chlorooctadecane	13.075	.19	.119	62.3	-
*#Triacontane	16.327	.19	.085	44.45	-

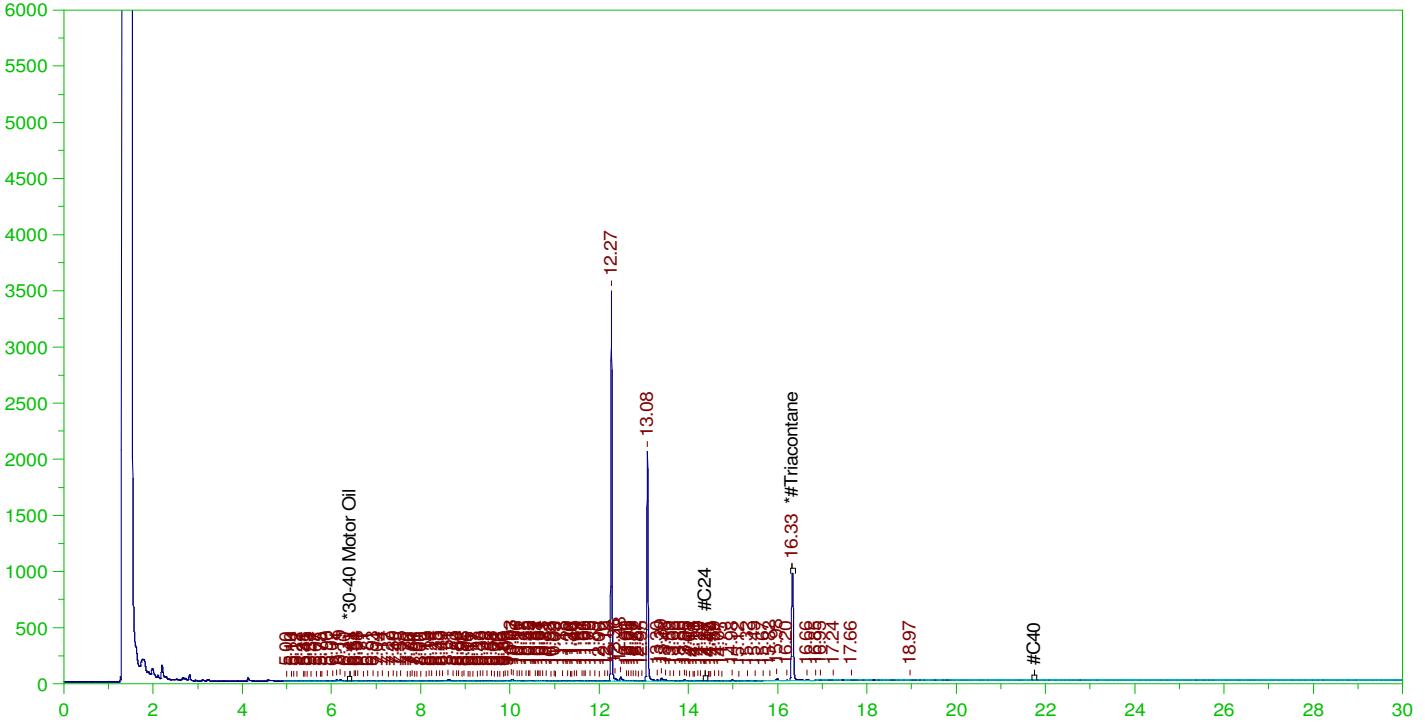
DRO Area:1313151 DRO Amount: 3.988812E-02  
TEH Area:1690746 TEH Amount: 5.135791E-02

ERH1706 (RMHW12A)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0039.RAW

B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0039.RAW  
Date & Time Acquired: 11/4/2021 1:10:35 PM  
Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-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: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.327	.476	.085	17.78

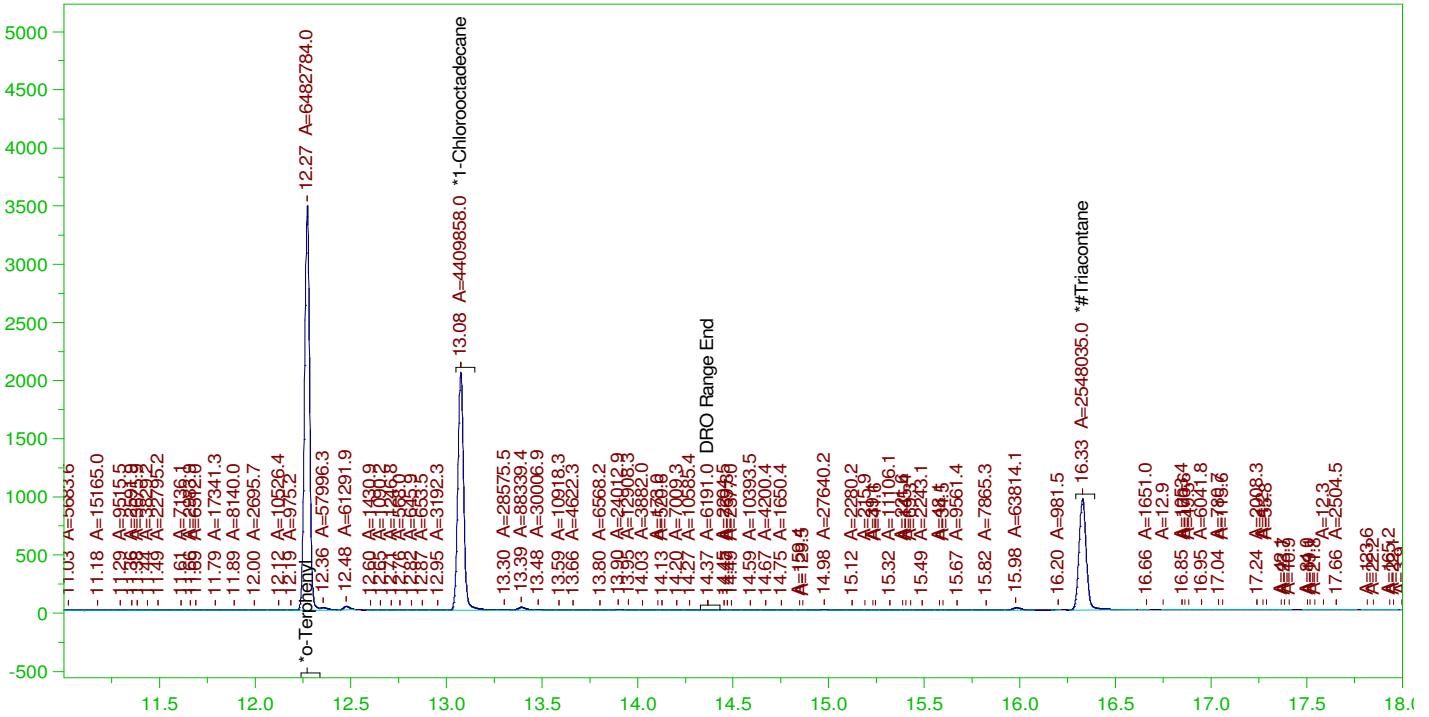
RRO Area:194349.7 RRO AMOUNT: 6.484909E-03

ERH1706 (RMHW12A)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0039.RAW

B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0039.RAW  
Date & Time Acquired: 11/4/2021 1:10:35 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.273	.19	.174	91.28
*1-Chlorooctadecane	13.075	.19	.118	62.09
*#Triacontane	16.327	.19	.084	44.04

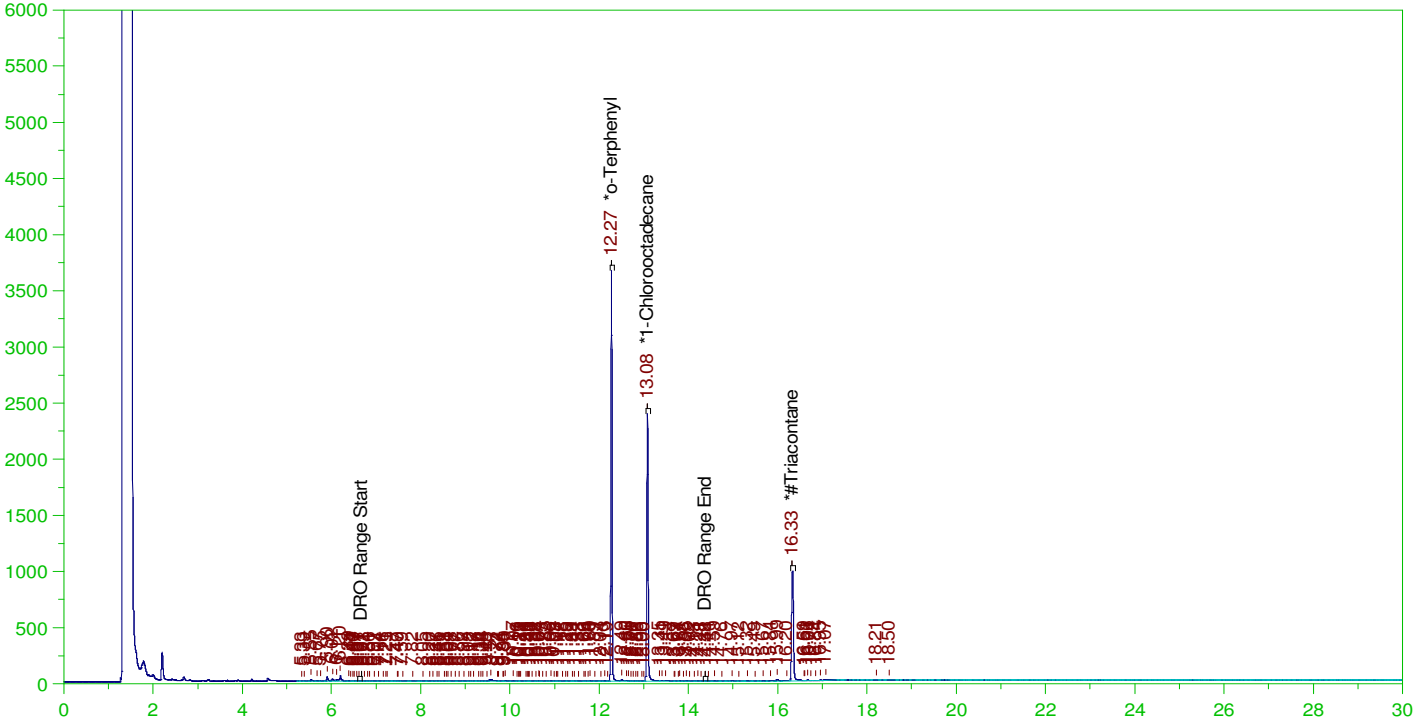
DRO Area: 1199447 DRO Amount: 3.643426E-02  
TEH Area: 1965320 TEH Amount: 5.969832E-02

ERH1712 (RHMW19)

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0040.RAW

Batch ID: 160878

B21110021-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110021-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0040.RAW  
Date & Time Acquired: 11/4/2021 1:54:15 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.273	.19	.183	96.5	-
*1-Chlorooctadecane	13.076	.19	.14	73.69	-
*#Triacontane	16.328	.19	.086	45.2	-

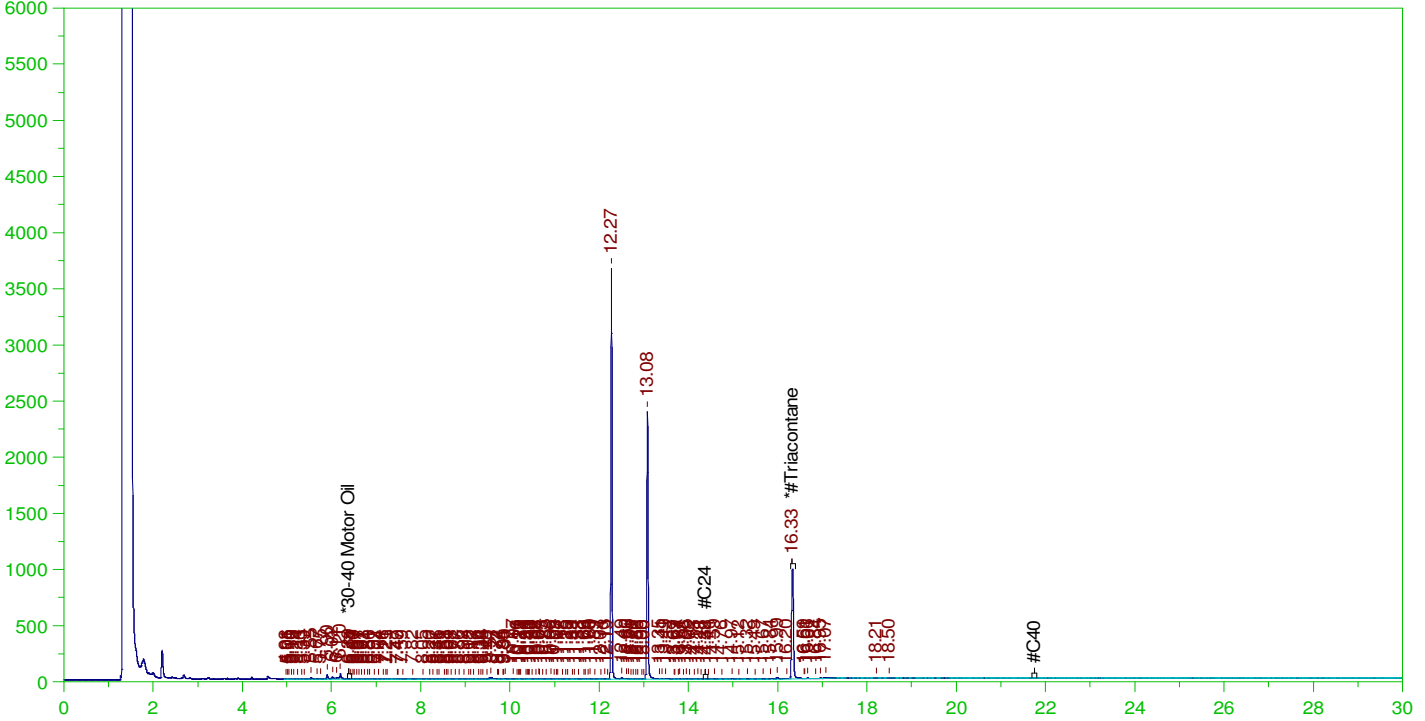
DRO Area: 735504.2 DRO Amount: 2.223571E-02  
TEH Area: 1399585 TEH Amount: 4.231215E-02

ERH1712 (RHMW19)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0040.RAW

B21110021-001B ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110021-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0040.RAW  
Date & Time Acquired: 11/4/2021 1:54:15 PM  
Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.328	.474	.086	18.07

RRO Area:206901

RRO AMOUNT: 6.870992E-03

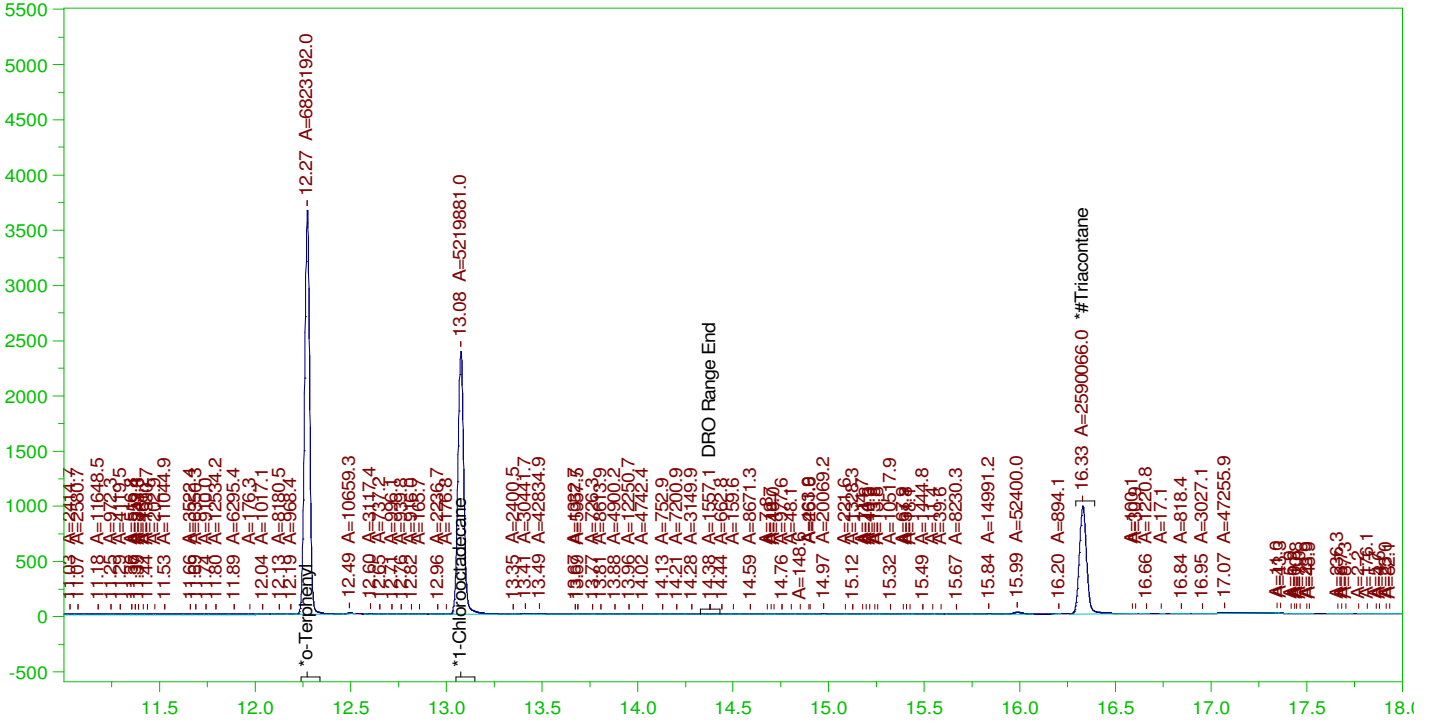


ERH1712 (RHMW19)

Batch ID: 160878

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B21110021-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110021-001B ; 1103HP5 , \$HC-8015-DRO-W,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0040.RAW  
 Date & Time Acquired: 11/4/2021 1:54:15 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1055 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19  
 Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.273	.19	.182	96.08
*1-Chlorooctadecane	13.076	.19	.139	73.5
*#Triacotane	16.328	.19	.085	44.76

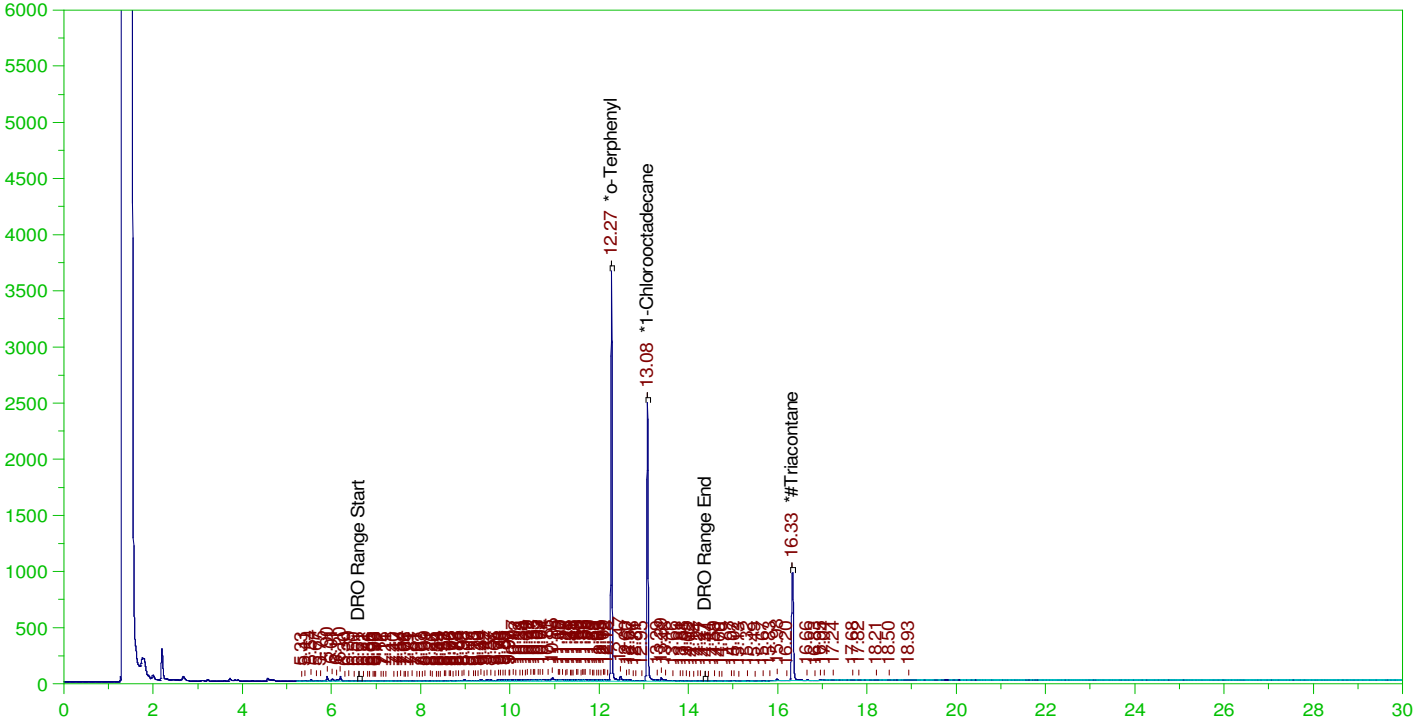
DRO Area: 731833.1 DRO Amount: 2.212472E-02  
 TEH Area: 1889637 TEH Amount: 5.712735E-02

ERH1683 (RHMW01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0041.RAW

B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0041.RAW  
Date & Time Acquired: 11/4/2021 2:37:58 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.274	.194	.191	98.45	-
*1-Chlorooctadecane	13.076	.194	.147	75.46	-
*#Triacontane	16.328	.194	.087	44.57	-

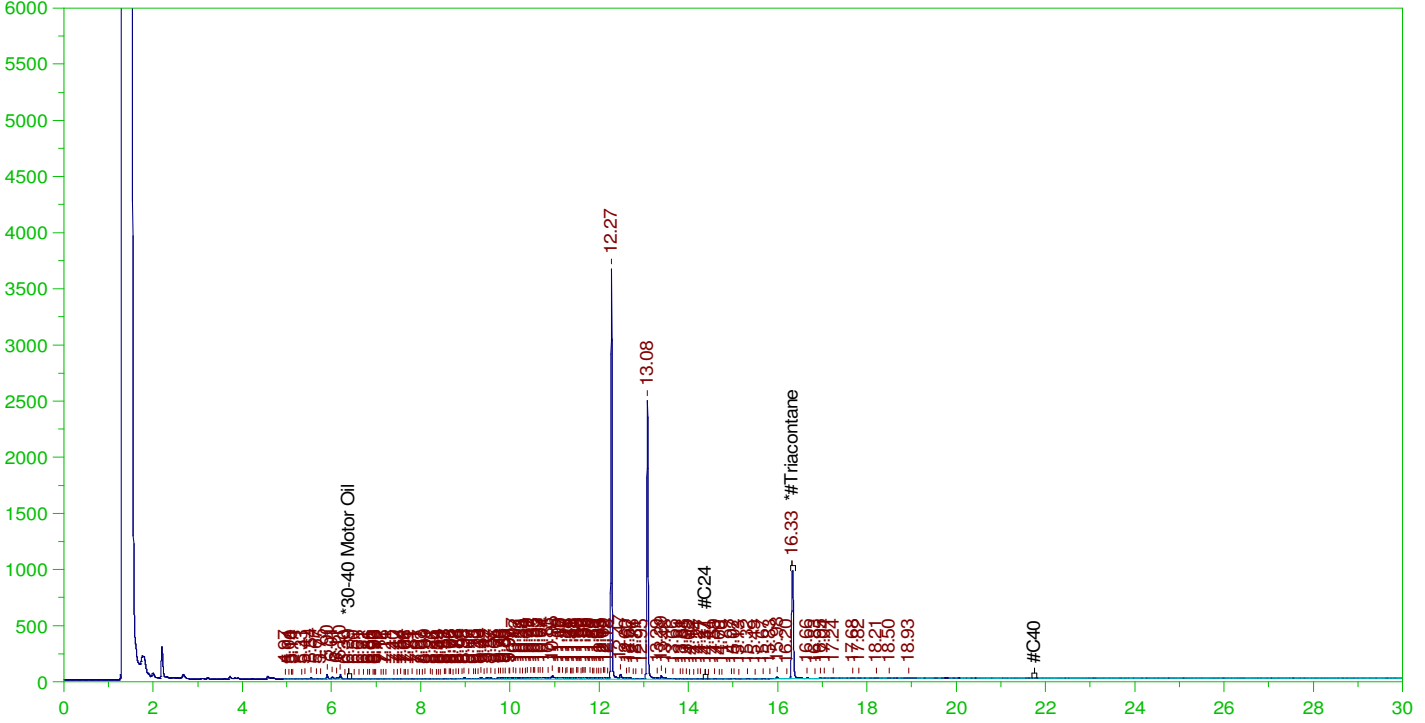
DRO Area: 3230091 DRO Amount: 0.1000221  
TEH Area: 3878815 TEH Amount: 0.1201103

ERH1683 (RHMW01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0041.RAW

B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0041.RAW  
Date & Time Acquired: 11/4/2021 2:37:58 PM  
Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.328	.485	.087	17.82

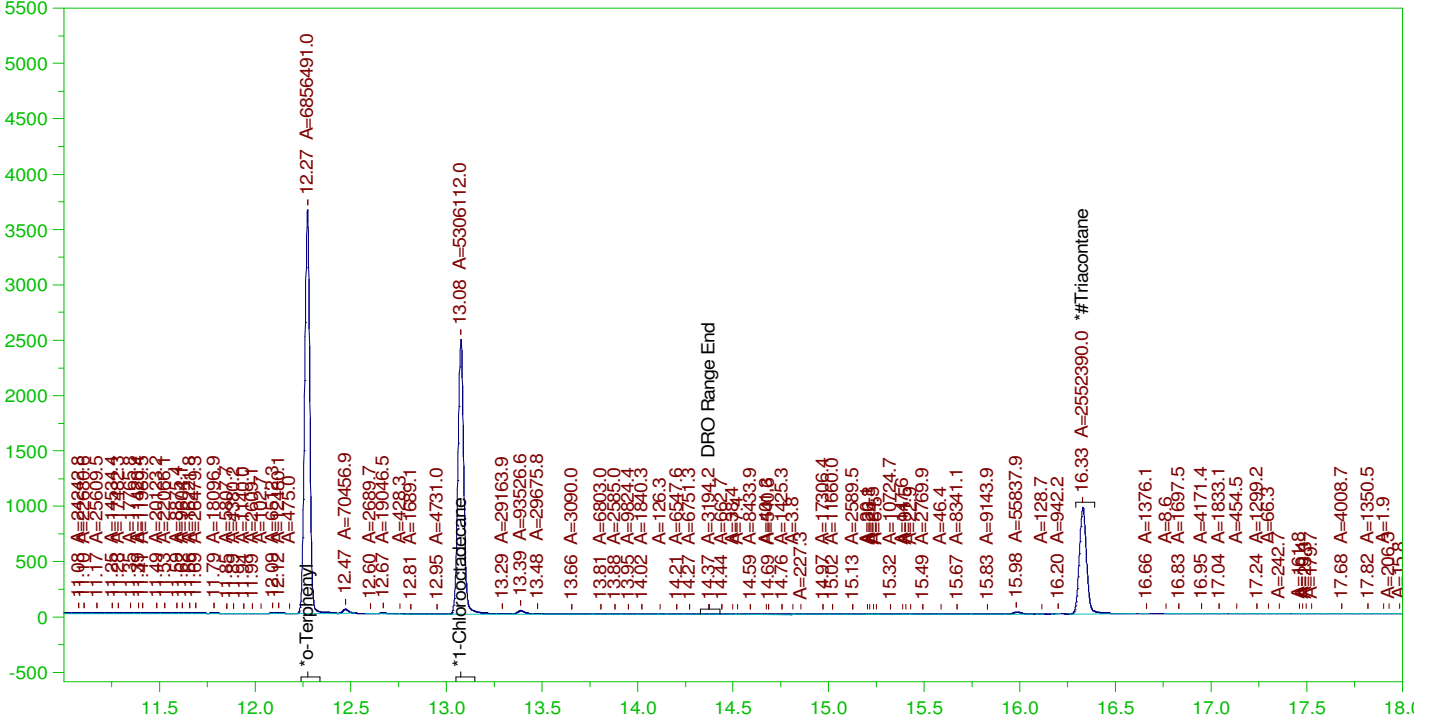
RRO Area:187962.4 RRO AMOUNT: 6.393567E-03

ERH1683 (RHMW01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0041.RAW

B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0041.RAW  
Date & Time Acquired: 11/4/2021 2:37:58 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.274	.194	.187	96.55	-
*1-Chlorooctadecane	13.076	.194	.145	74.71	-
*#Triacontane	16.328	.194	.086	44.11	-

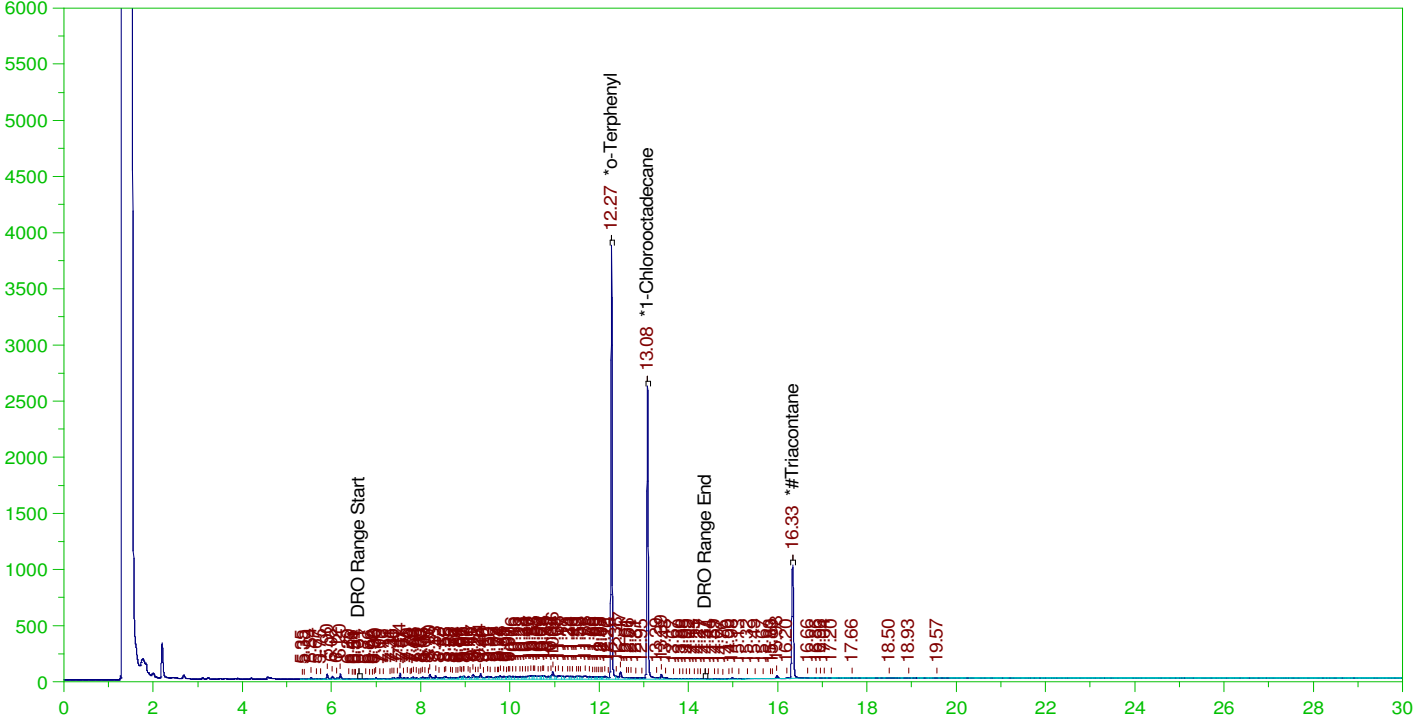
DRO Area:1555406 DRO Amount: 4.816424E-02  
TEH Area:2775014 TEH Amount: 8.593026E-02

ERH1685 (RHMW01R)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0042.RAW

B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0042.RAW  
Date & Time Acquired: 11/4/2021 3:20:53 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.275	.194	.2	102.9	-
*1-Chlorooctadecane	13.078	.194	.155	80.08	-
*#Triacontane	16.33	.194	.09	46.46	-

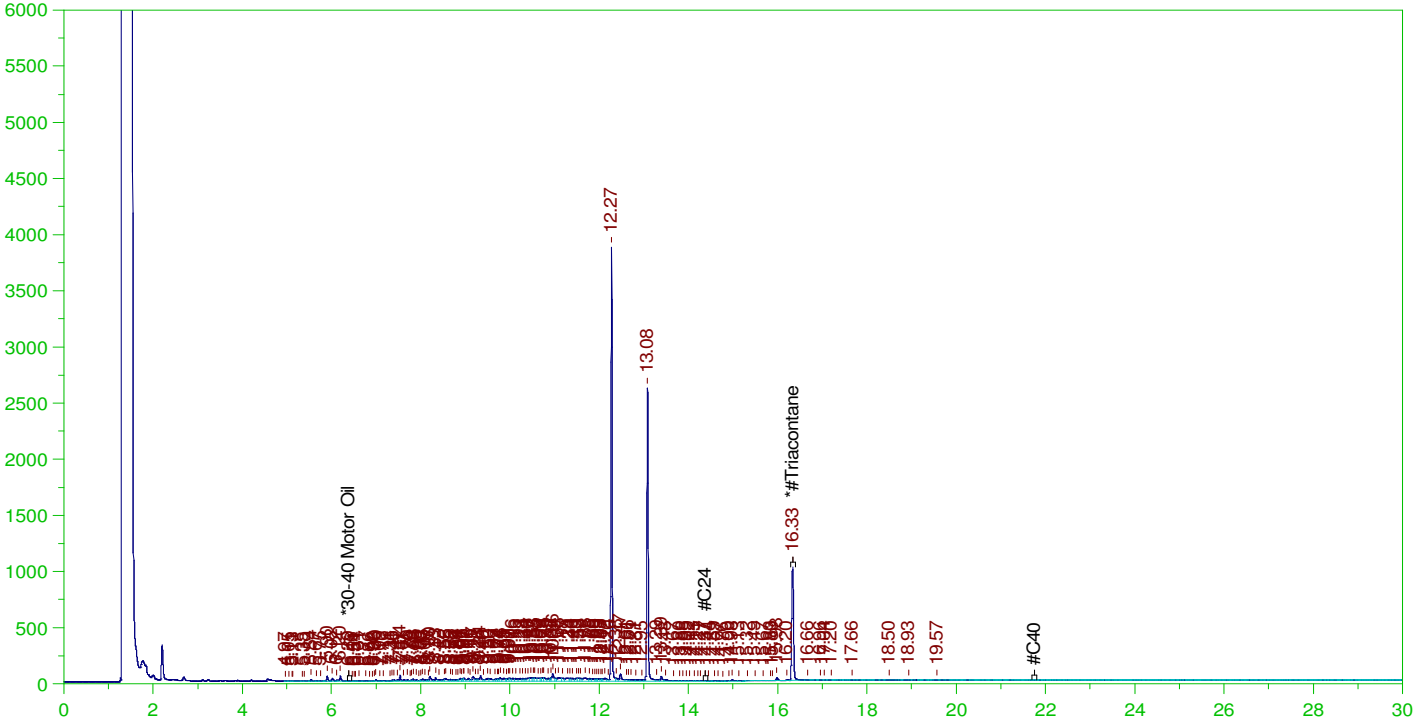
DRO Area: 7231442 DRO Amount: 0.2239267  
TEH Area: 7874030 TEH Amount: 0.2438249

ERH1685 (RHMW01R)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0042.RAW

B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0042.RAW  
Date & Time Acquired: 11/4/2021 3:20:53 PM  
Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.33	.485	.09	18.58	-

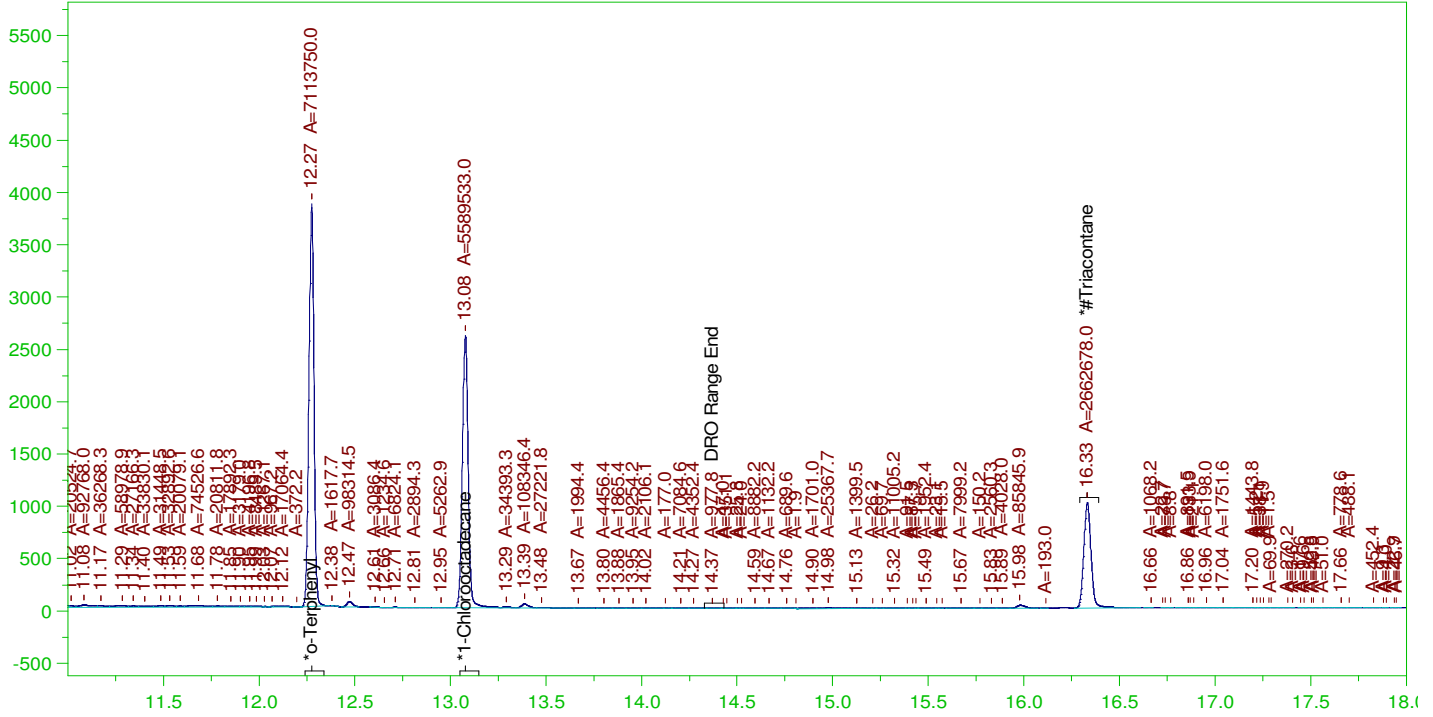
RRO Area:200562.2 RRO AMOUNT: 6.822148E-03

ERH1685 (RHMW01R)

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0042.RAW

Batch ID: 160878

B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0042.RAW  
Date & Time Acquired: 11/4/2021 3:20:53 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-110342-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19  
Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.275	.194	.195	100.17	-
*1-Chlorooctadecane	13.078	.194	.153	78.71	-
*Triacontane	16.33	.194	.089	46.02	-

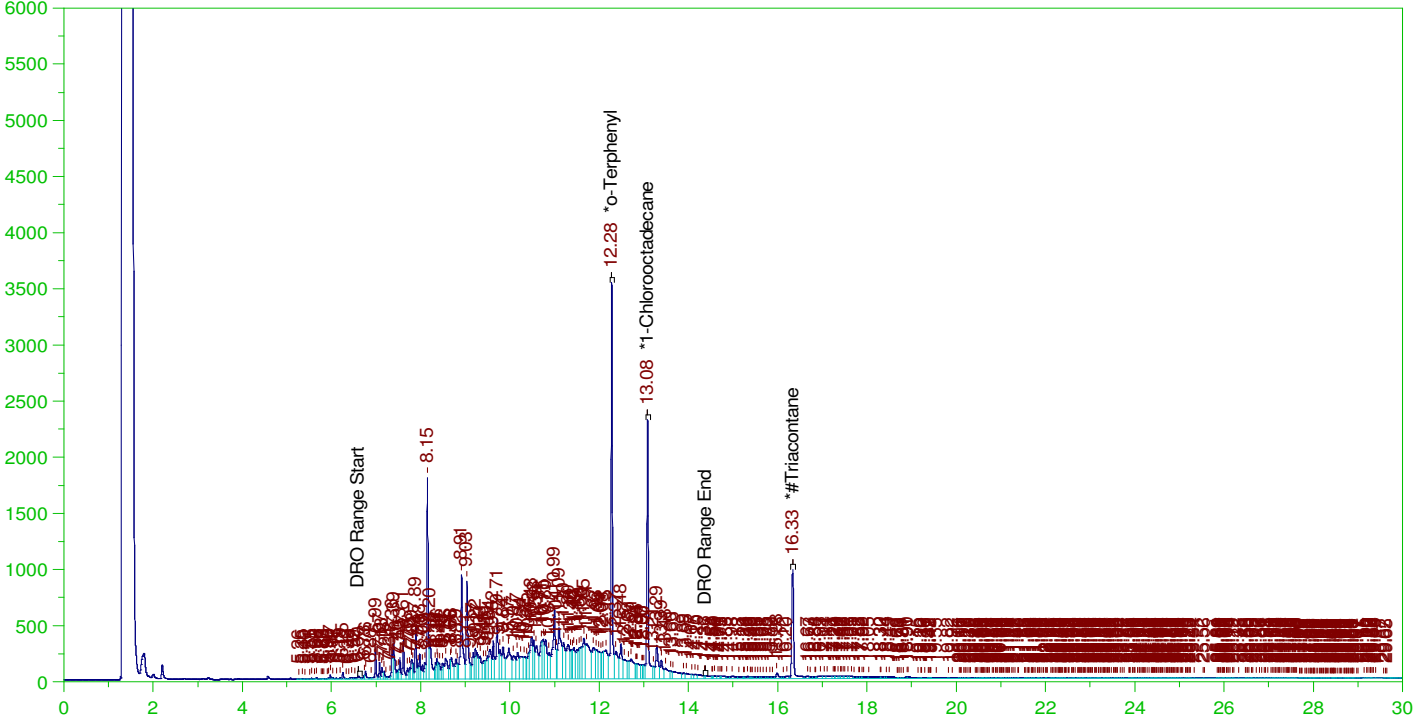
DRO Area: 3581558 DRO Amount: 0.1109055  
TEH Area: 4639660 TEH Amount: 0.1436704

ERH1687 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0043.RAW

B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0043.RAW  
Date & Time Acquired: 11/4/2021 4:03:51 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.279	.19	.206	108.29	-
*1-Chlorooctadecane	13.08	.19	.152	80.05	-
*#Triacontane	16.331	.19	.094	49.15	-

DRO Area: 8.152174E+07 DRO Amount: 2.476295  
TEH Area: 8.952121E+07 TEH Amount: 2.719286

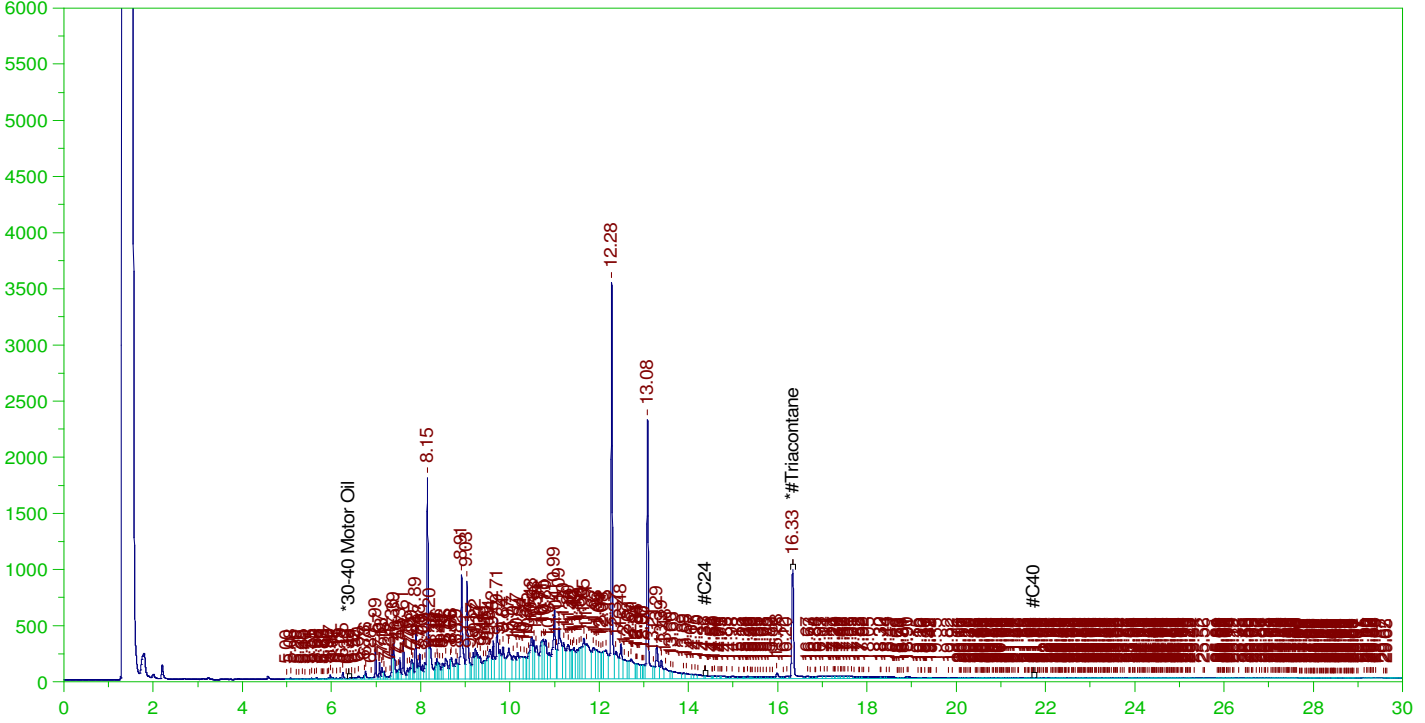


ERH1687 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0043.RAW

B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0043.RAW  
Date & Time Acquired: 11/4/2021 4:03:51 PM  
Method File: G:\Org\HP5\Methods\D3\_OROS-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-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: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.331	.476	.094	19.67

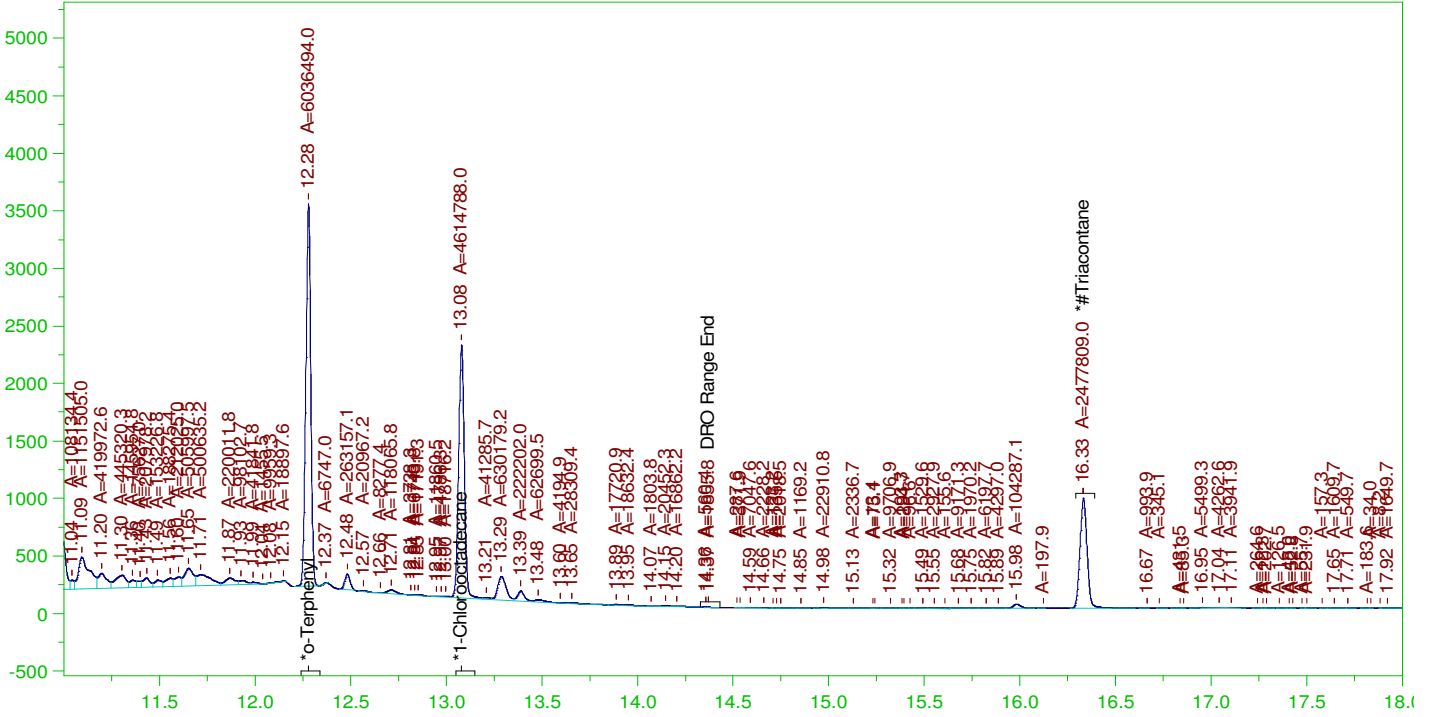
RRO Area:6178669 RRO AMOUNT: 0.206165

ERH1687 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0043.RAW

B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0043.RAW  
Date & Time Acquired: 11/4/2021 4:03:51 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-110342-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.279	.19	.162	85.	-
*1-Chlorooctadecane	13.08	.19	.124	64.98	-
*#Triacontane	16.331	.19	.082	42.82	-

DRO Area: 3.330544E+07 DRO Amount: 1.011682

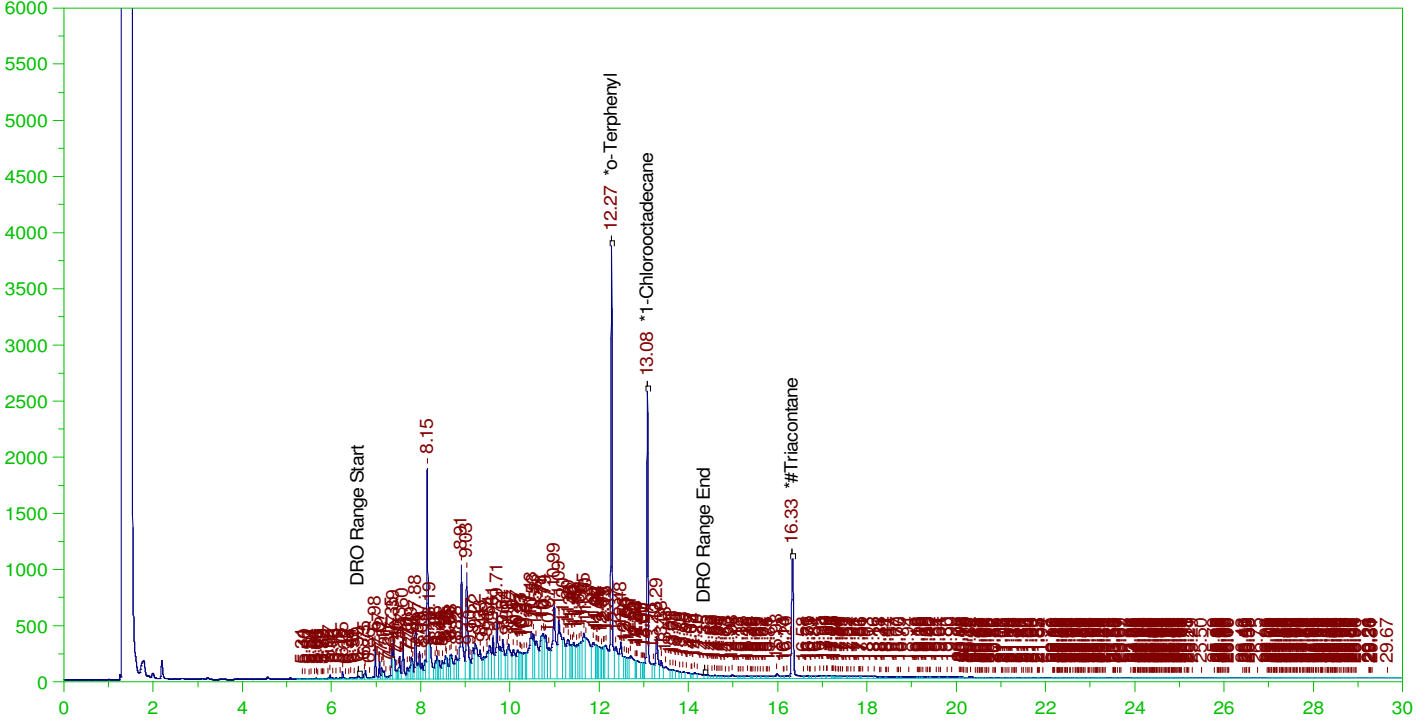
TEH Area: 3.420377E+07 TEH Amount: 1.03897

ERH1688 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0044.RAW

B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0044.RAW  
Date & Time Acquired: 11/4/2021 4:46:40 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.274	.189	.227	120.27	-
*1-Chlorooctadecane	13.076	.189	.167	88.32	-
*#Triacontane	16.328	.189	.102	54.	-

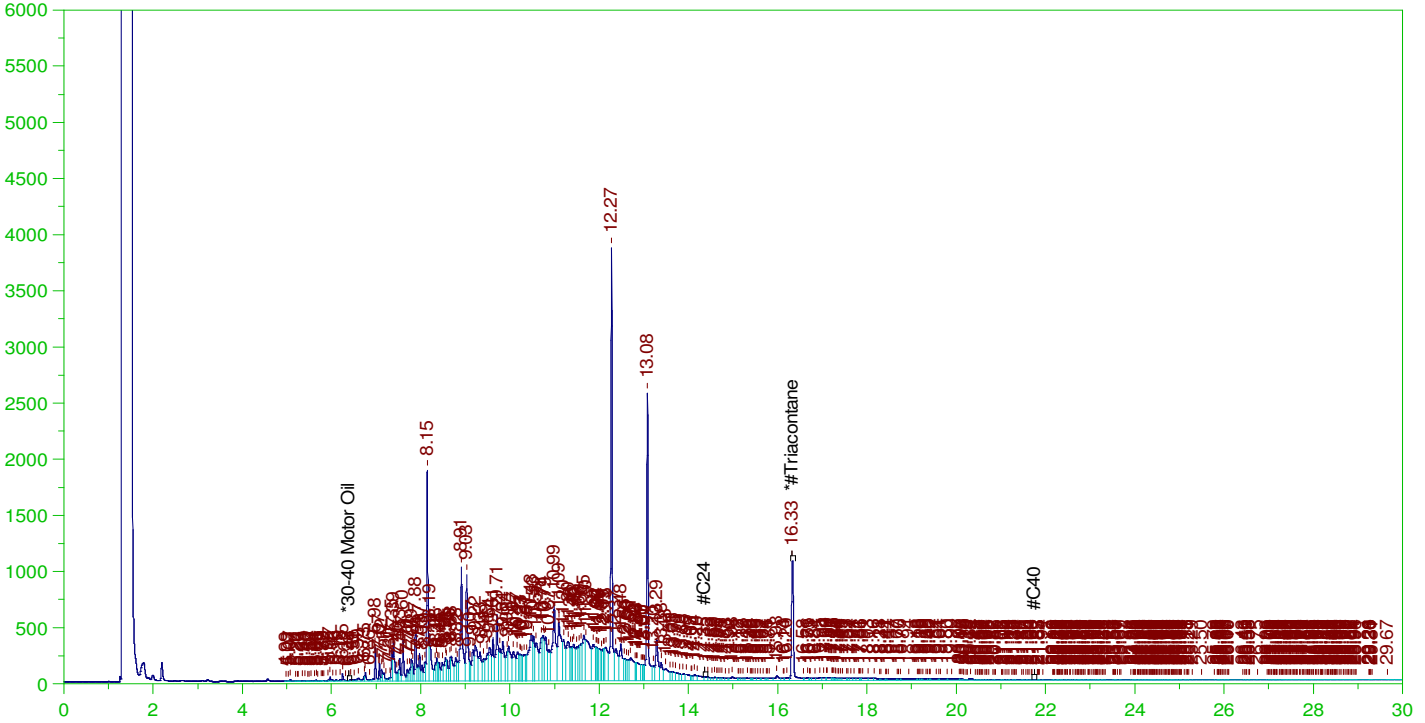
DRO Area: 9.471235E+07 DRO Amount: 2.84983  
TEH Area: 1.044242E+08 TEH Amount: 3.142054

ERH1688 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0044.RAW

B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0044.RAW  
Date & Time Acquired: 11/4/2021 4:46:40 PM  
Method File: G:\Org\HP5\Methods\D3\_OROS-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.328	.472	.102	21.61

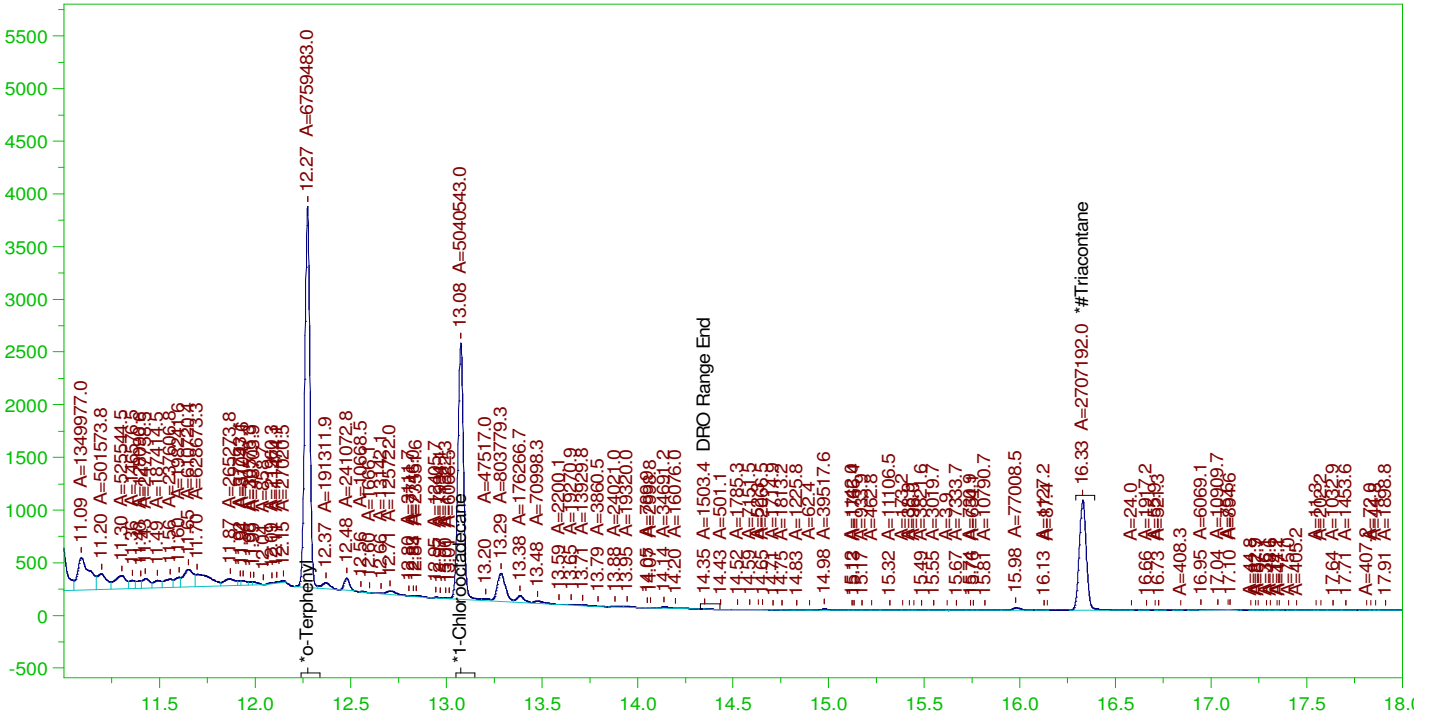
RRO Area: 7399017 RRO AMOUNT: 0.2445555

ERH1688 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0044.RAW

B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W,  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0044.RAW  
 Date & Time Acquired: 11/4/2021 4:46:40 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.274	.189	.18	95.18	-
*1-Chlorooctadecane	13.076	.189	.134	70.98	-
*Triacontane	16.328	.189	.088	46.79	-

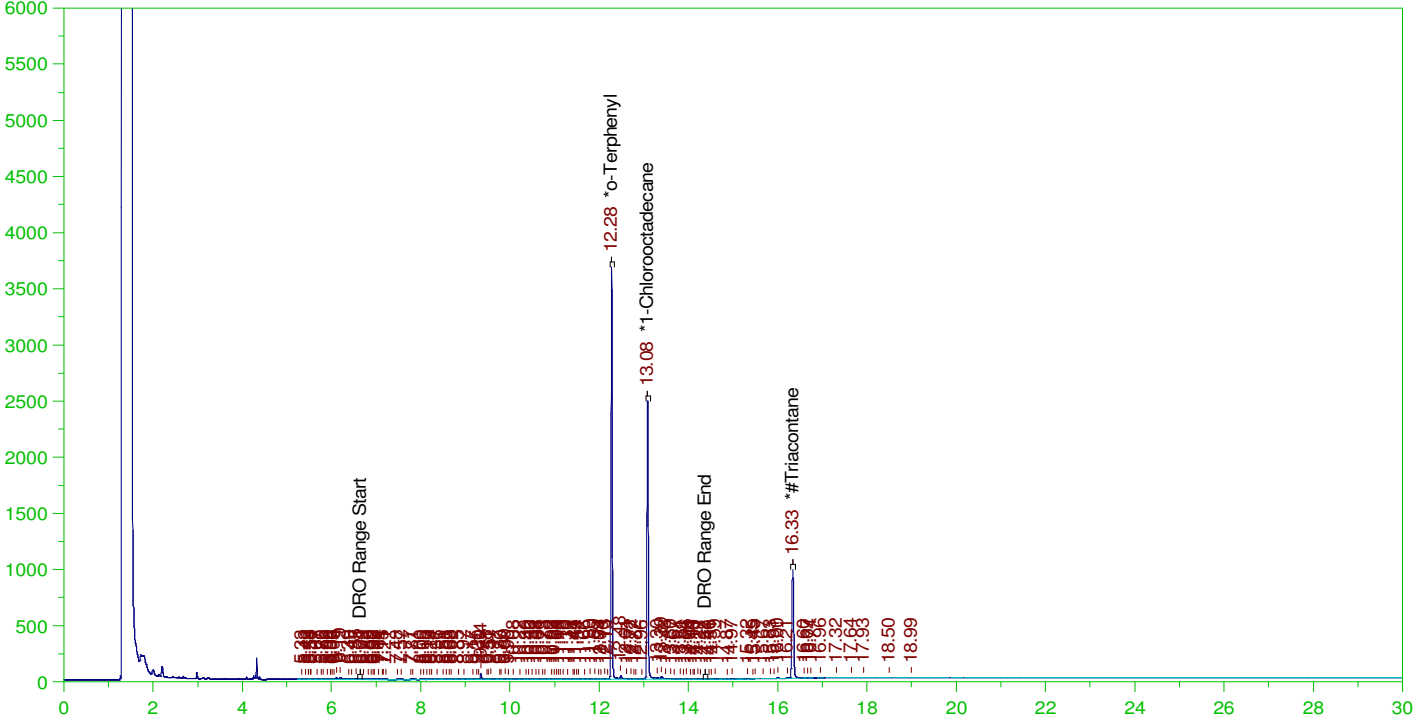
DRO Area: 3.873392E+07 DRO Amount: 1.165477  
 TEH Area: 3.969889E+07 TEH Amount: 1.194513

ERH1681 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0045.RAW

B21110079-002B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-002B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0045.RAW  
Date & Time Acquired: 11/4/2021 5:29:41 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.277	.2	.194	97.24	-
*1-Chlorooctadecane	13.08	.2	.153	76.62	-
*#Triacontane	16.334	.2	.089	44.49	-

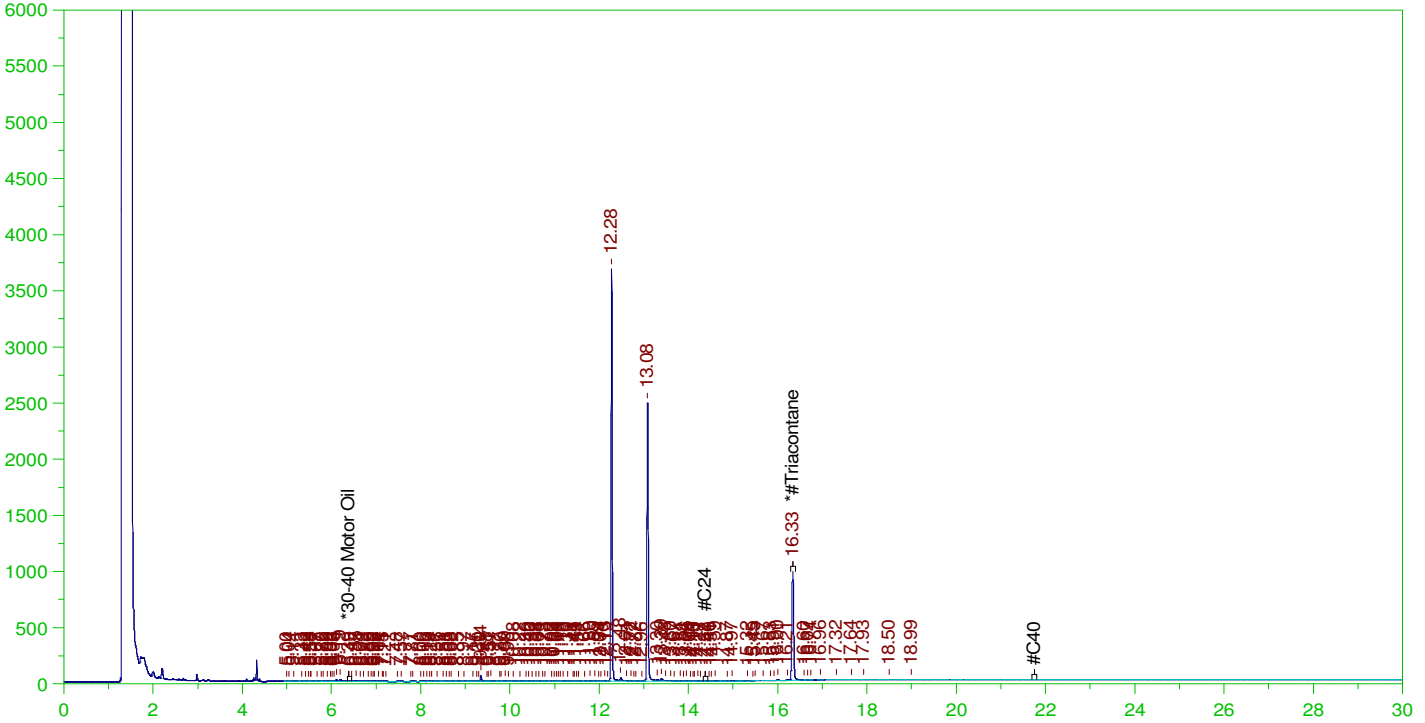
DRO Area: 767239.4 DRO Amount: 2.447085E-02  
TEH Area: 1132117 TEH Amount: 0.0361085

ERH1681 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0045.RAW

B21110079-002B ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110079-002B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0045.RAW  
Date & Time Acquired: 11/4/2021 5:29:41 PM  
Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-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: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.334	.5	.089	17.8

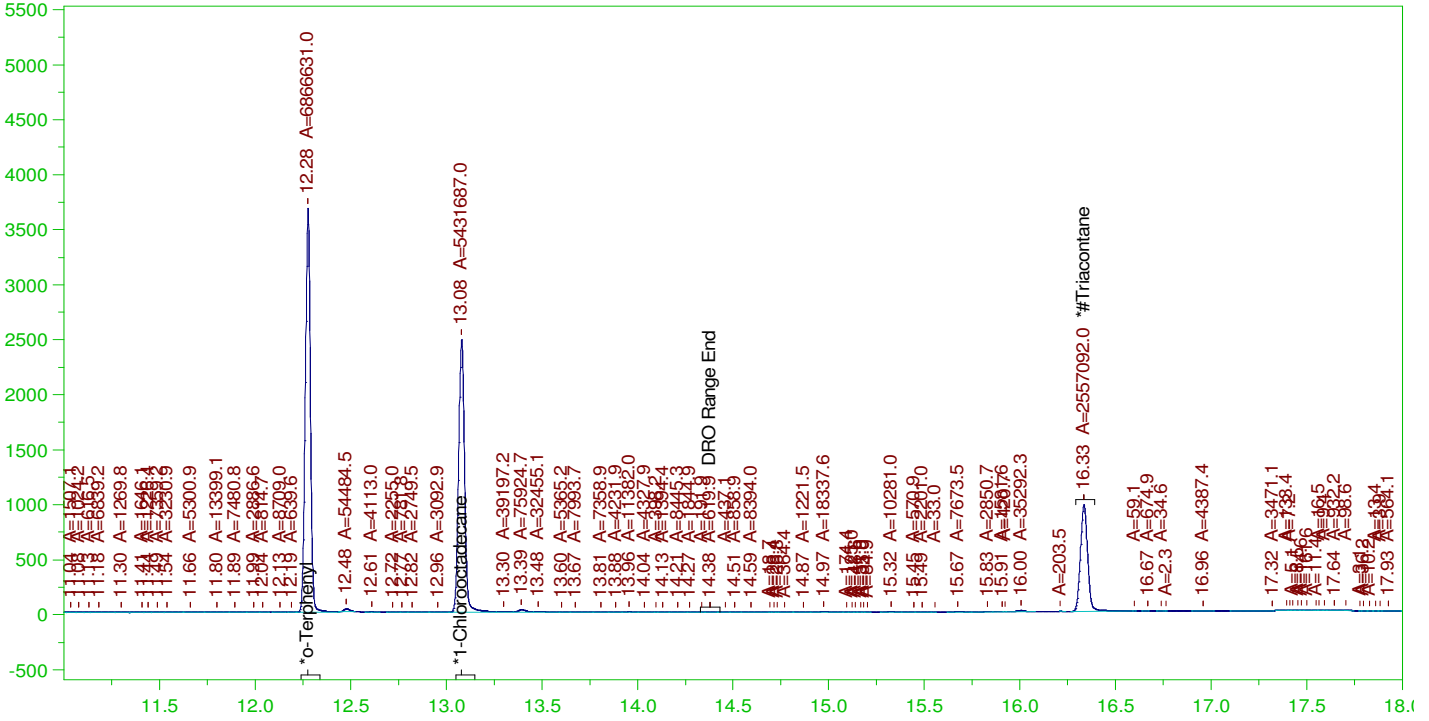
RRO Area:137076.8 RRO AMOUNT: 4.802566E-03

ERH1681 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0045.RAW

B21110079-002B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-002B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0045.RAW  
Date & Time Acquired: 11/4/2021 5:29:41 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.277	.2	.193	96.69	-
*1-Chlorooctadecane	13.08	.2	.153	76.48	-
*#Triacontane	16.334	.2	.088	44.19	-

DRO Area: 648196.6 DRO Amount: 2.067402E-02  
TEH Area: 1584399 TEH Amount: 5.053389E-02

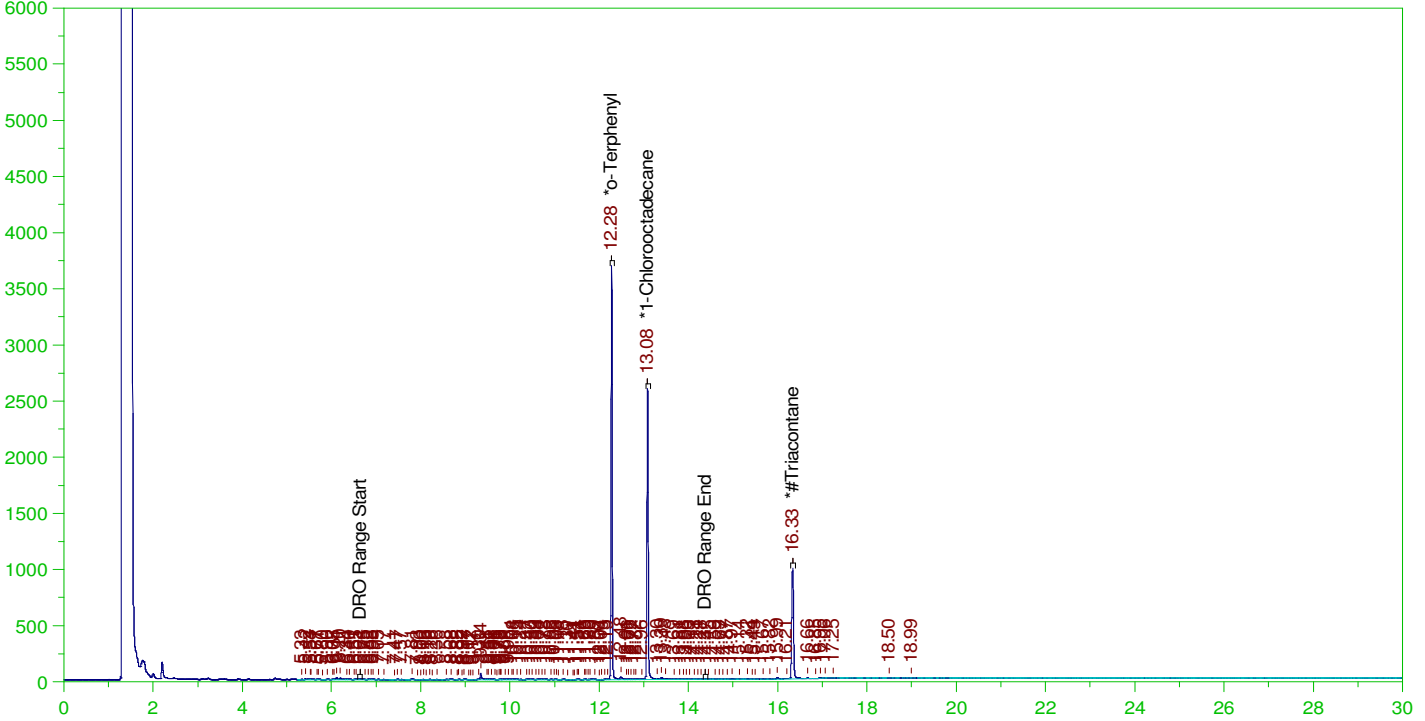


ERH1694 (RHMW05)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0046.RAW

B21110079-003B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-003B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0046.RAW  
Date & Time Acquired: 11/4/2021 6:12:30 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.277	.198	.194	98.11	-
*1-Chlorooctadecane	13.079	.198	.155	78.12	-
*#Triacontane	16.33	.198	.09	45.37	-

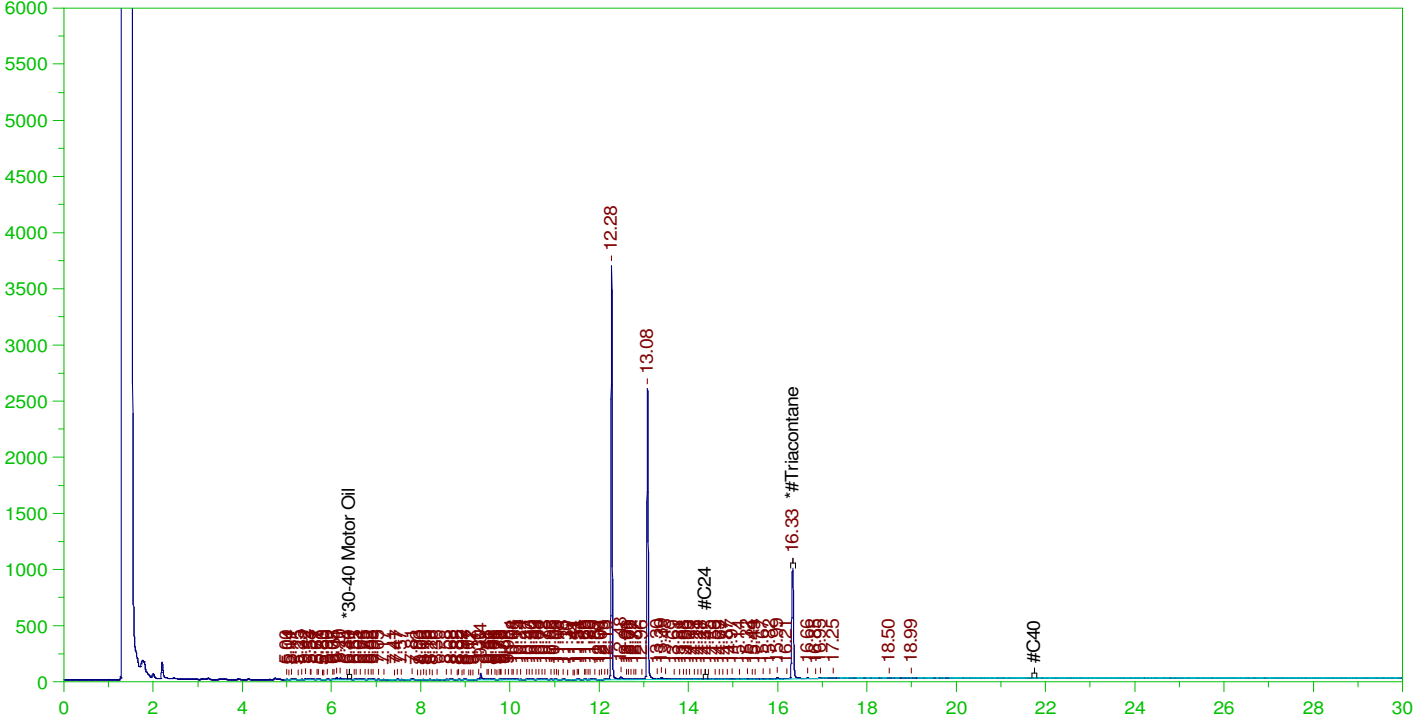
DRO Area: 777861.9 DRO Amount: 2.456402E-02  
TEH Area: 1124082 TEH Amount: 3.549726E-02

ERH1694 (RHMW05)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0046.RAW

B21110079-003B ; 1103HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110079-003B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0046.RAW  
Date & Time Acquired: 11/4/2021 6:12:30 PM  
Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-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: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.33	.495	.09	18.15	-

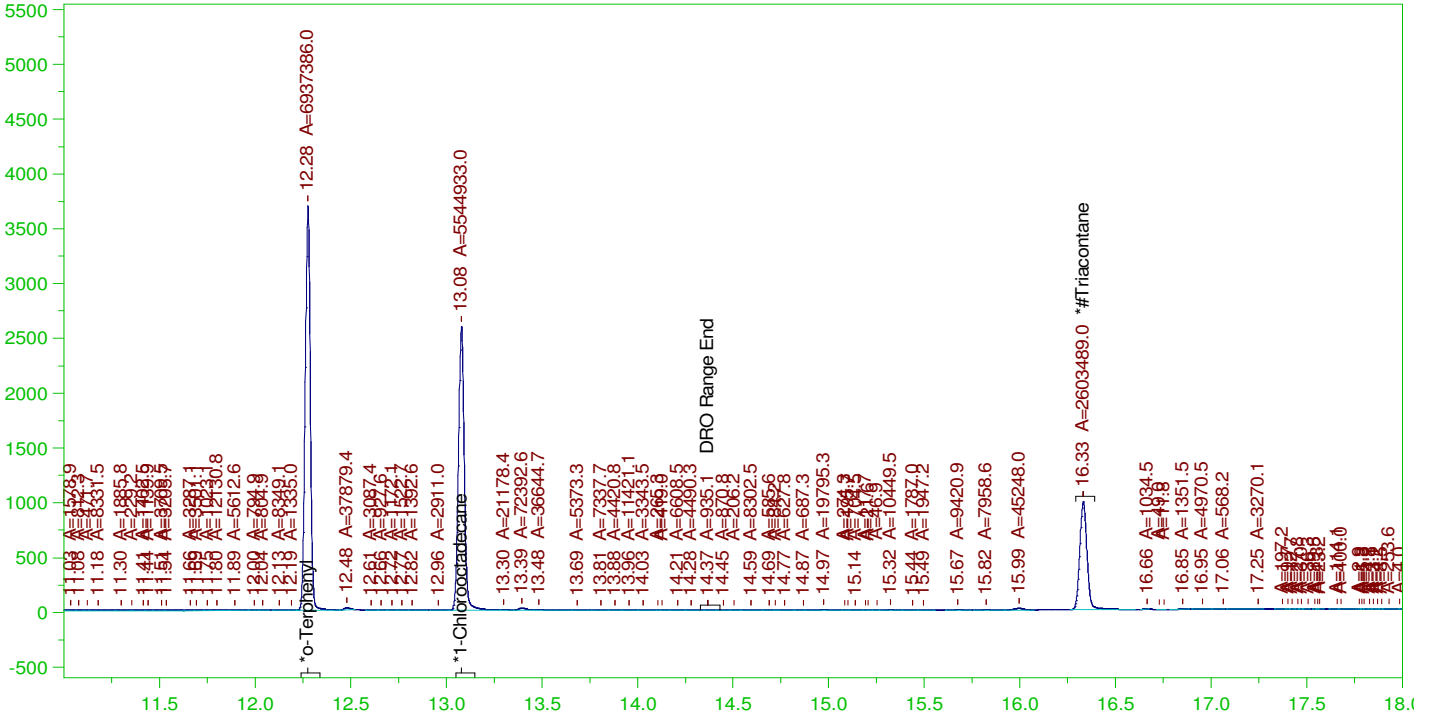
RRO Area:146476.7 RRO AMOUNT: 5.081084E-03

ERH1694 (RHMW05)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0046.RAW

B21110079-003B ; 1103HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

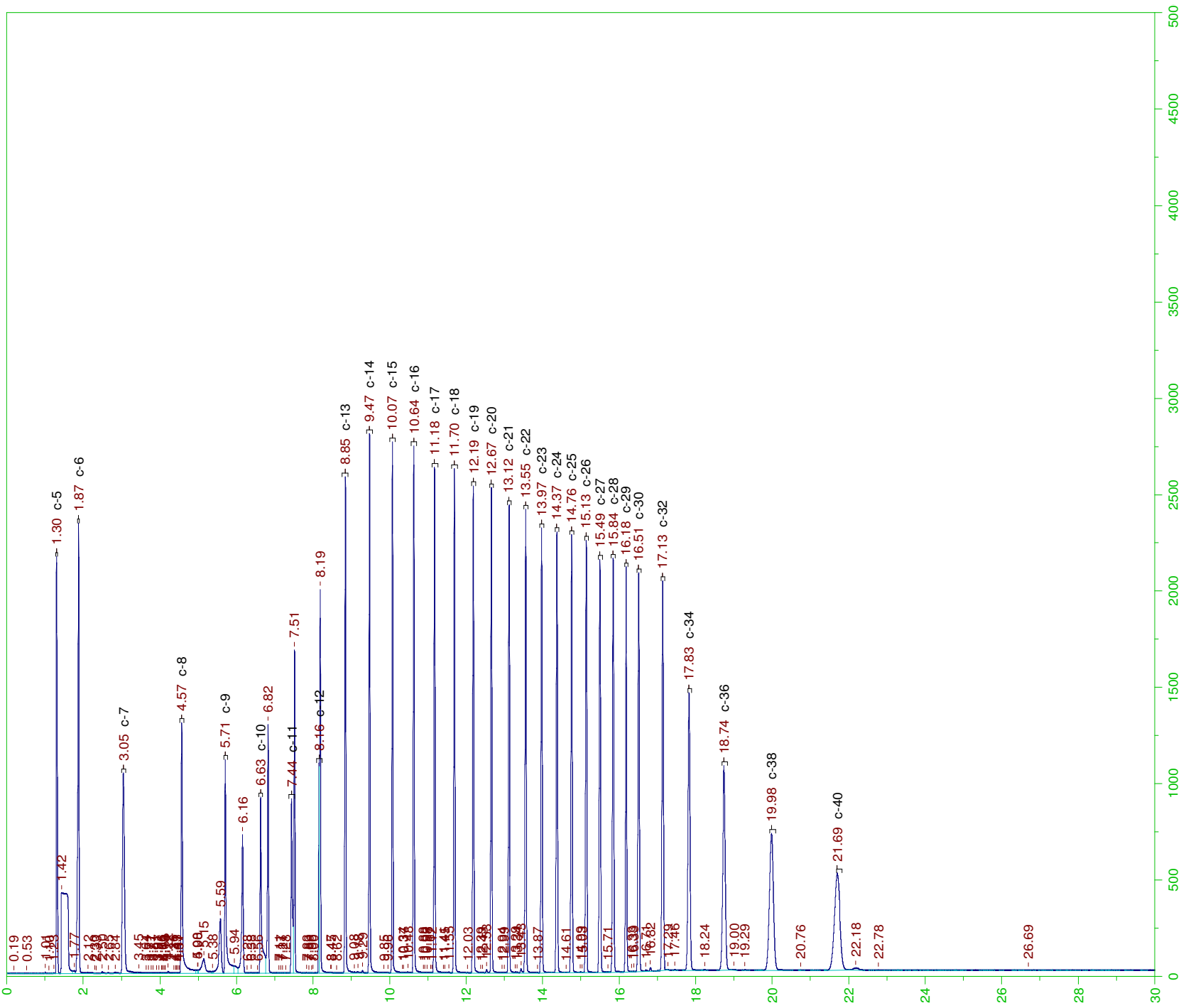
Sample Name: B21110079-003B ; 1103HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0046.RAW  
Date & Time Acquired: 11/4/2021 6:12:30 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

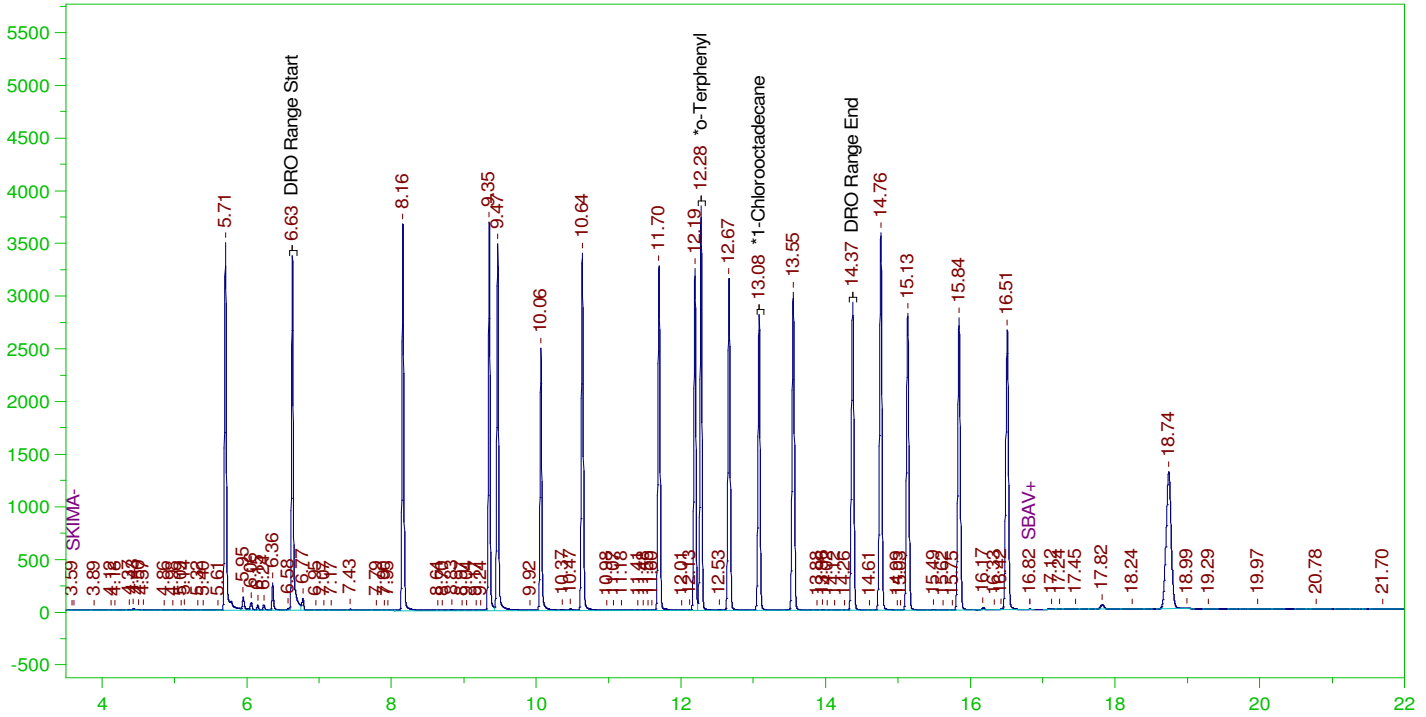
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.277	.198	.193	97.68	-
*1-Chlorooctadecane	13.079	.198	.155	78.08	-
*#Triacontane	16.33	.198	.089	45.	-

DRO Area: 734639.3 DRO Amount: 2.319909E-02  
TEH Area: 1330396 TEH Amount: 4.201242E-02



G:\org\HP5\DAT\HP5110321\_b\1103HP5.0048.RAW

MARKER\_1103HP548r, DRO ;1103HP5 , DRO211012I



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

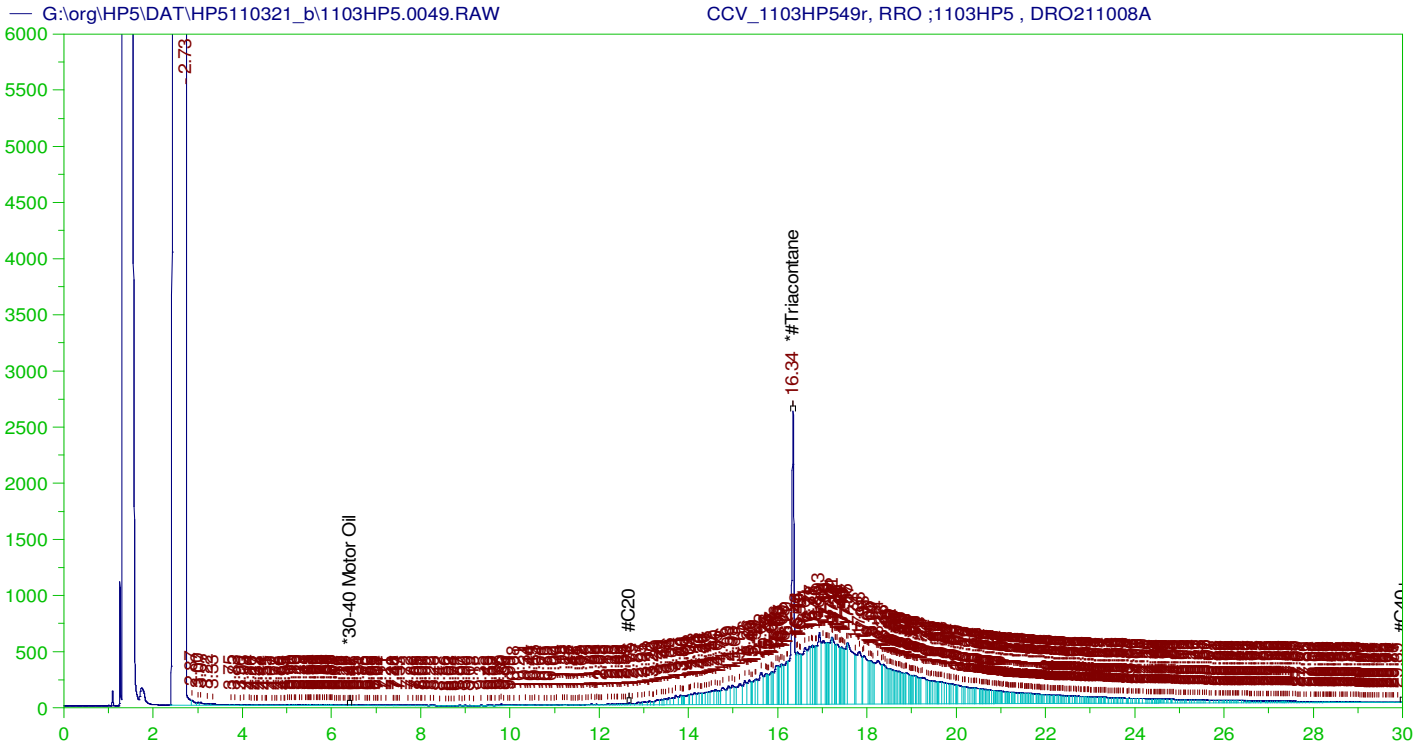
Sample Name: MARKER\_1103HP548r, DRO ;1103HP5 , DRO211012I  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0048.RAW  
 Date & Time Acquired: 11/4/2021 7:38:32 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211012IA-24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.277	.2	.205	102.55
*1-Chlorooctadecane	13.079	.2	.166	82.82

DRO Area: 6.937046E+07 DRO Amount: 2.212548  
 TEH Area: 1.12127E+08 TEH Amount: 3.576255



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP549r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0049.RAW  
 Date & Time Acquired: 11/4/2021 8:21:23 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triaccontane	16.339	500.	342.288	68.46	-

RRO TEH (Oil Range) Area:1.365598E+08 RRO TEH (Oil Range) AMOUNT: 4784.452

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0049.RAW

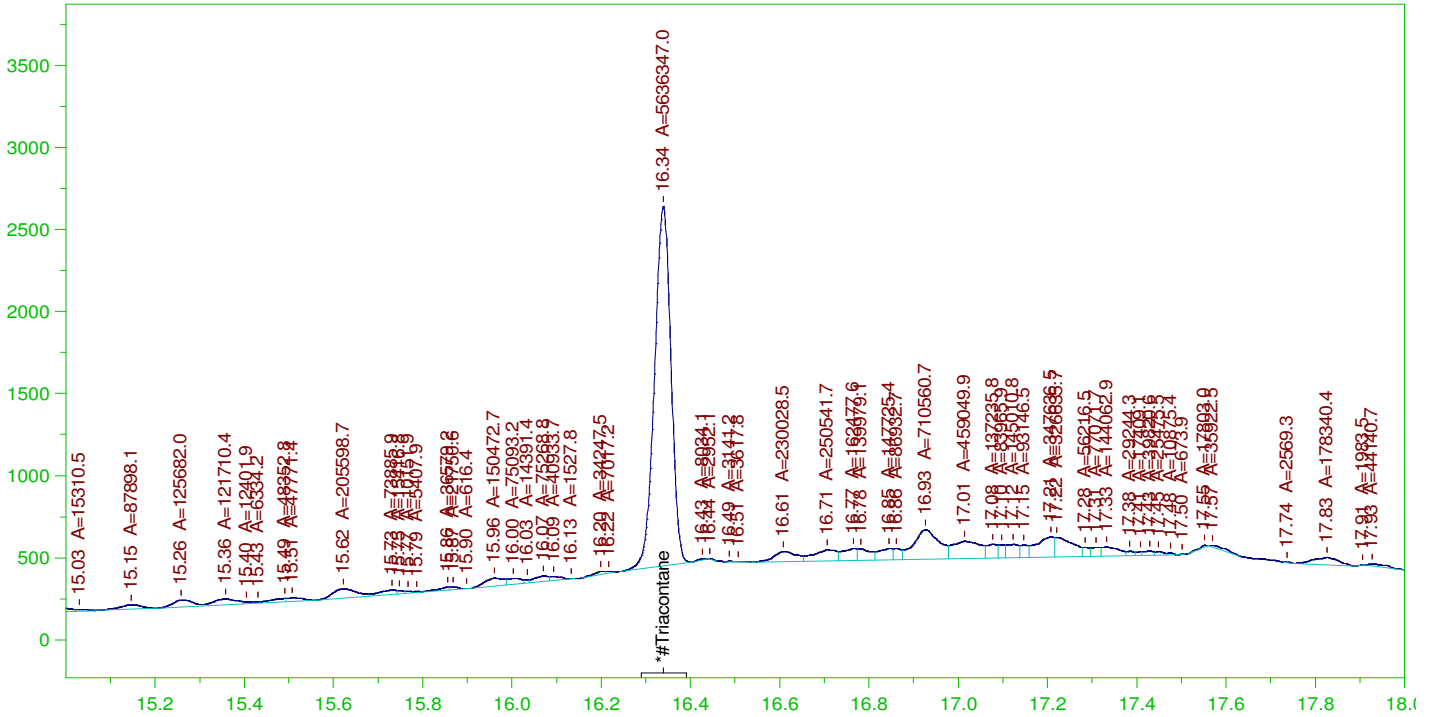
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.245	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triaccontane	16.339	200.	342.288	171.14	75-125

AMN 11/16/2021

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0049.RAW

CCV\_1103HP549r, RRO ;1103HP5 , DRO211008A



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP549r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0049.RAW  
 Date & Time Acquired: 11/4/2021 8:21:23 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.339	500.	194.826	38.97

RRO Area:6684371 RRO AMOUNT: 234.1908

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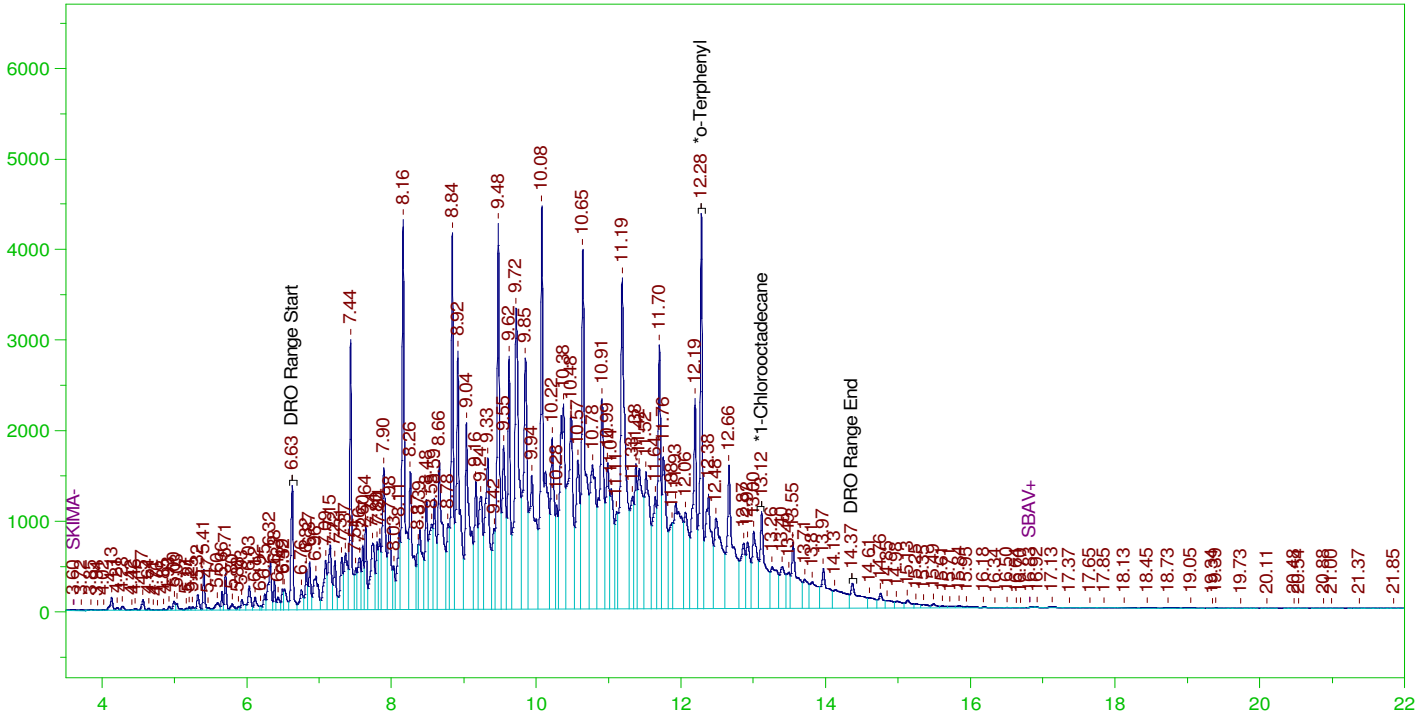
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.245	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.339	200.	194.826	97.41	75-125

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW

CCV\_1103HP550r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP550r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW  
 Date & Time Acquired: 11/4/2021 9:04:14 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.281	200.	314.974	157.49
*1-Chlorooctadecane	13.116	200.	151.159	75.58

DRO Area: 4.3748E+08 DRO Amount: 13953.28  
 TEH Area: 4.52739E+08 TEH Amount: 14439.97

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW

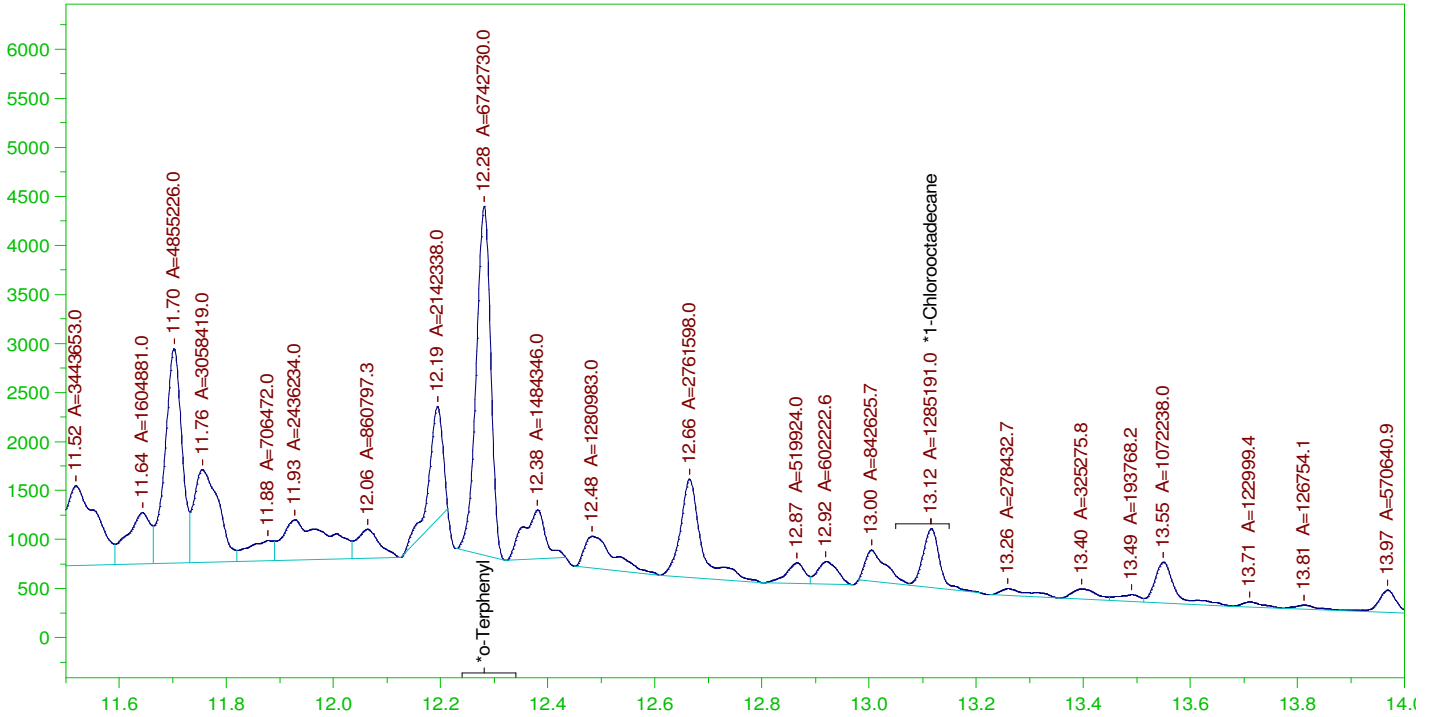
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14439.97	96.27	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.281	200.	314.974	157.49	85-115
*1-Chlorooctadecane	13.116	200.	151.159	75.58	85-115



G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW

CCV\_1103HP550r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP550r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW  
 Date & Time Acquired: 11/4/2021 9:04:14 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

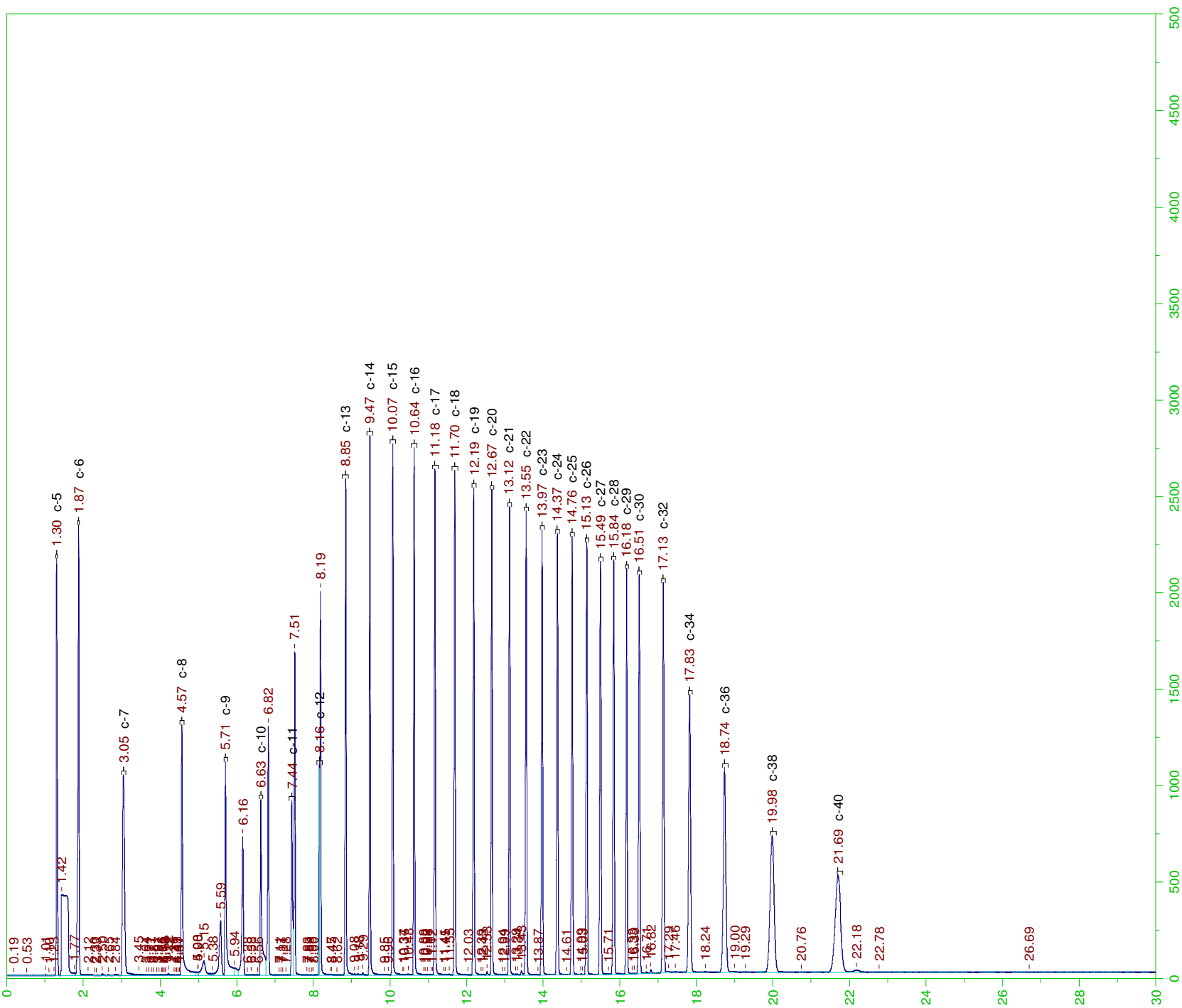
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.281	200.	189.887	94.94
*1-Chlorooctadecane	13.116	200.	36.193	18.1

DRO Area: 2.488818E+08 DRO Amount: 7938.006  
 TEH Area: 2.589092E+08 TEH Amount: 8257.827

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW

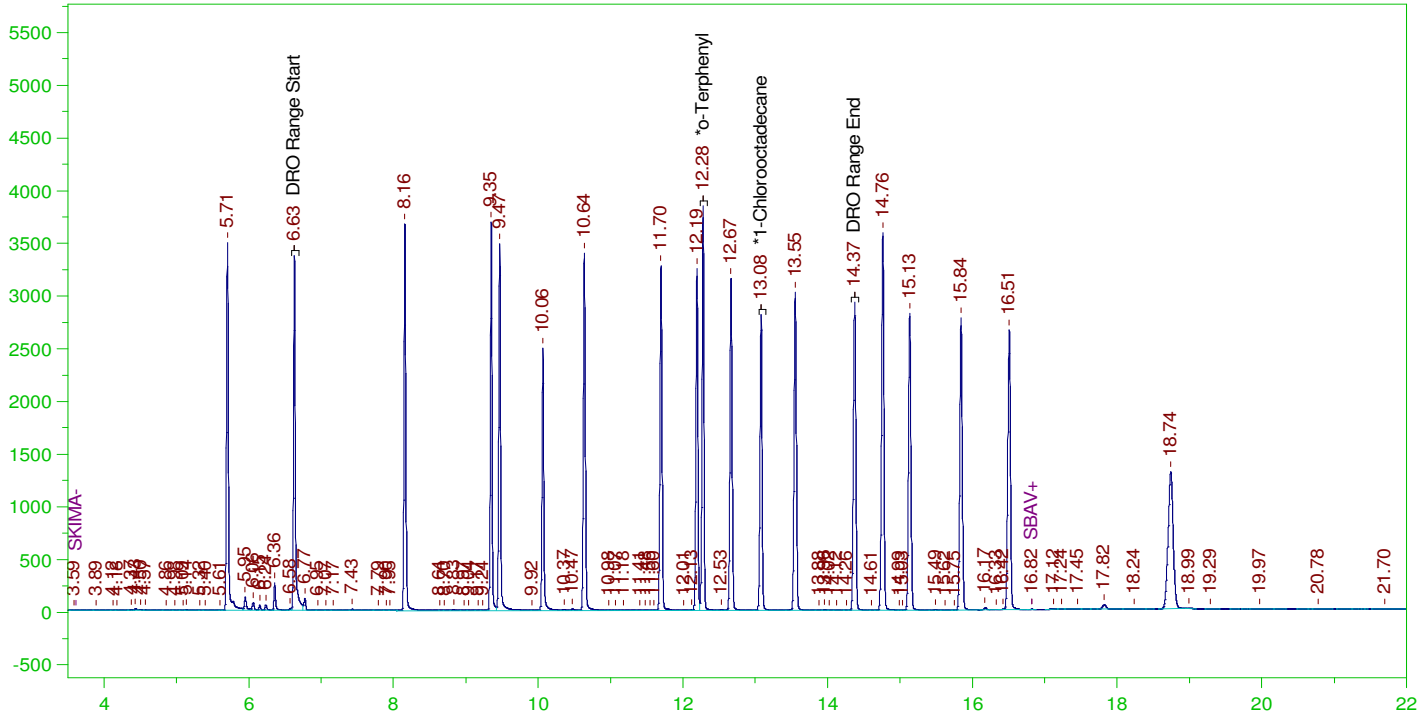
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8257.83	55.05	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.281	200.	189.887	94.94	85-115
*1-Chlorooctadecane	13.116	200.	36.193	18.1	85-115



G:\org\HP5\DAT\HP5110321\_b\1103HP5.0048.RAW

MARKER\_1103HP548r, DRO ;1103HP5 , DRO211012I



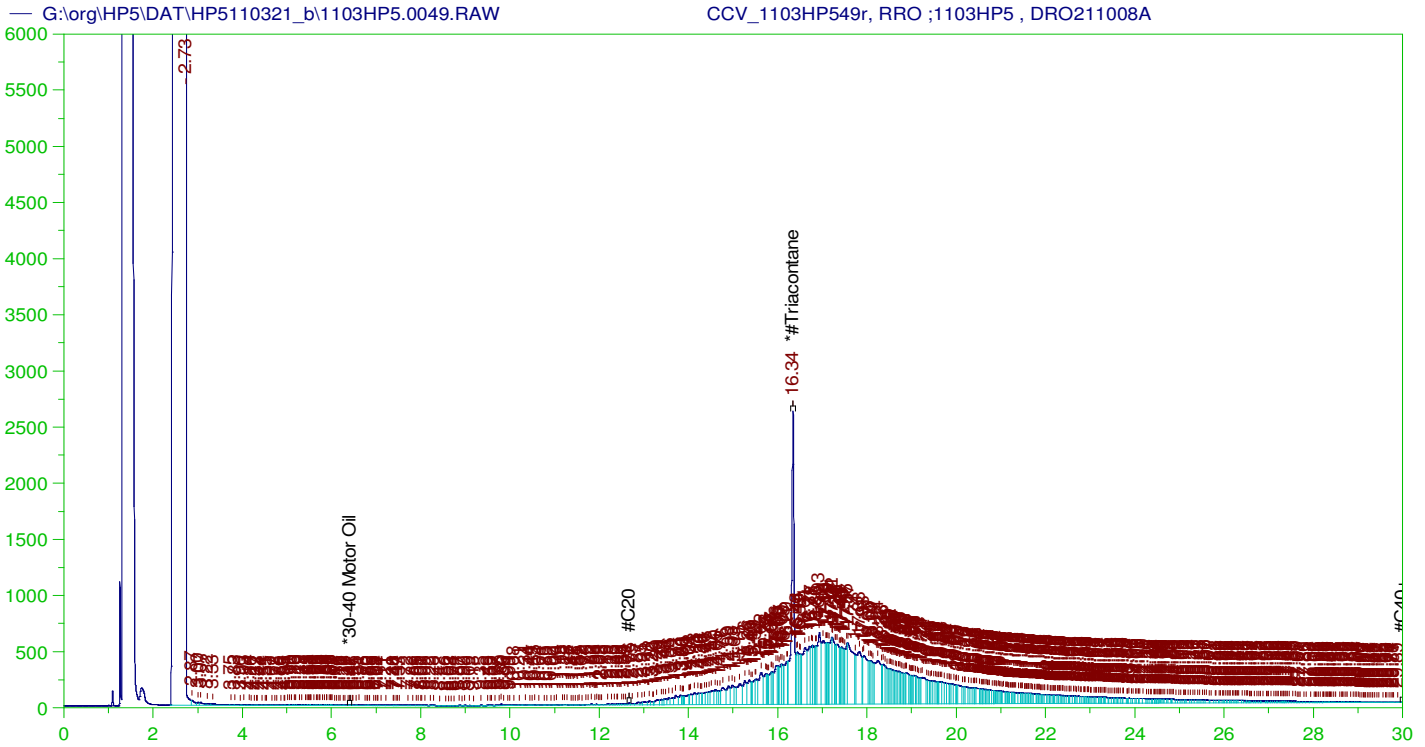
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER\_1103HP548r, DRO ;1103HP5 , DRO211012I  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0048.RAW  
 Date & Time Acquired: 11/4/2021 7:38:32 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211012IA-24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19  
 Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.277	.2	.205	102.55
*1-Chlorooctadecane	13.079	.2	.166	82.82

DRO Area:6.937046E+07 DRO Amount: 2.212548  
 TEH Area:1.12127E+08 TEH Amount: 3.576255



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP549r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0049.RAW  
 Date & Time Acquired: 11/4/2021 8:21:23 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.339	500.	342.288	68.46	-

RRO TEH (Oil Range) Area:1.365598E+08 RRO TEH (Oil Range) AMOUNT: 4784.452

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0049.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.245	.	75-125

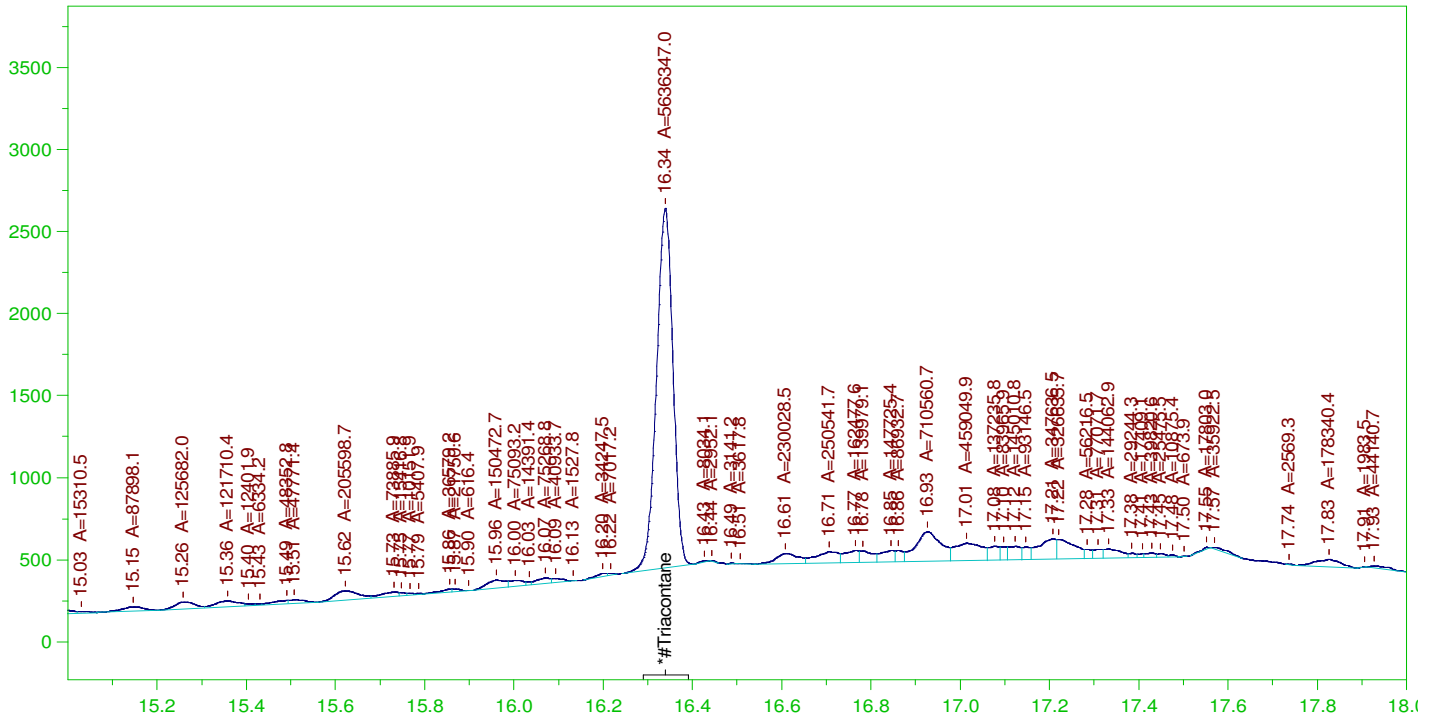
  

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.339	200.	342.288	171.14	75-125

AMN 11/16/2021

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0049.RAW

CCV\_1103HP549r, RRO ;1103HP5 , DRO211008A



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP549r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0049.RAW  
 Date & Time Acquired: 11/4/2021 8:21:23 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.339	500.	194.826	38.97

RRO Area:6684371 RRO AMOUNT: 234.1908

**CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0049.RAW**

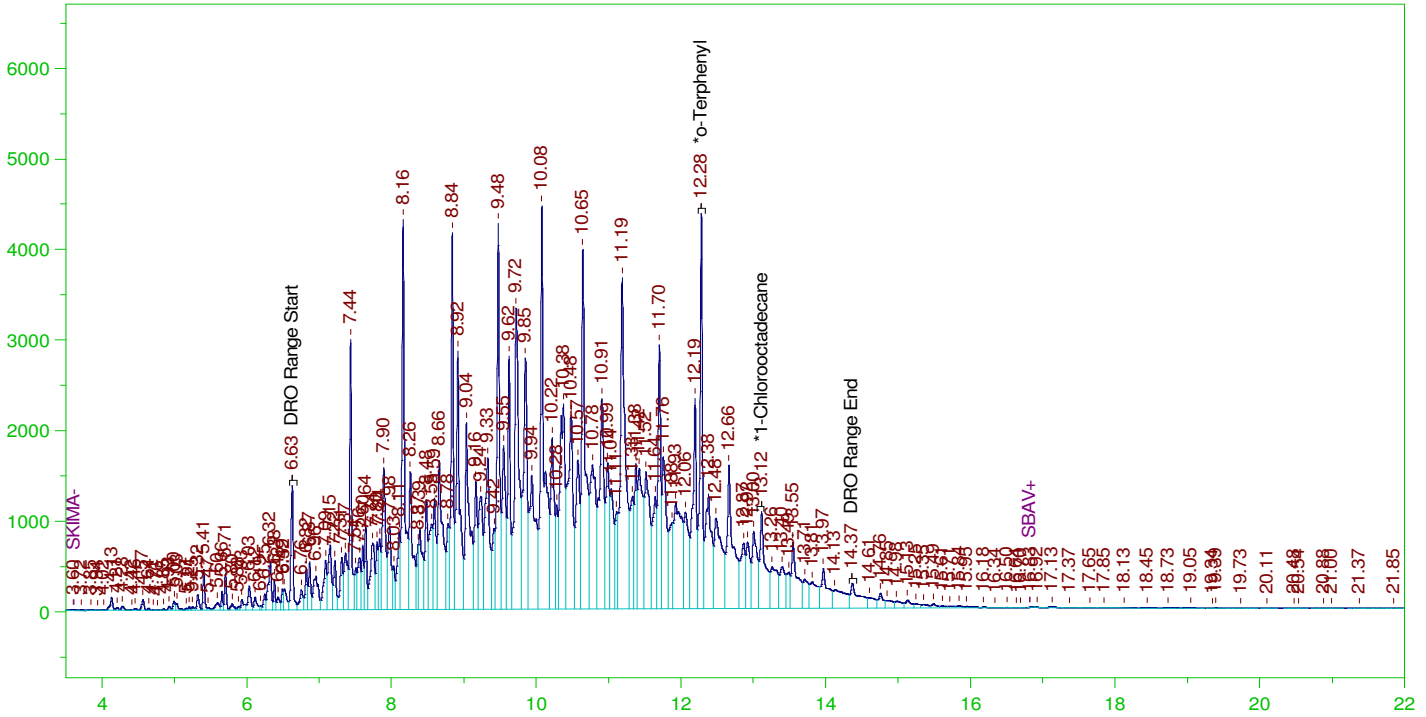
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.245	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.339	200.	194.826	97.41	75-125

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW

CCV\_1103HP550r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP550r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW  
 Date & Time Acquired: 11/4/2021 9:04:14 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.281	200.	314.974	157.49
*1-Chlorooctadecane	13.116	200.	151.159	75.58

DRO Area: 4.3748E+08 DRO Amount: 13953.28  
 TEH Area: 4.52739E+08 TEH Amount: 14439.97

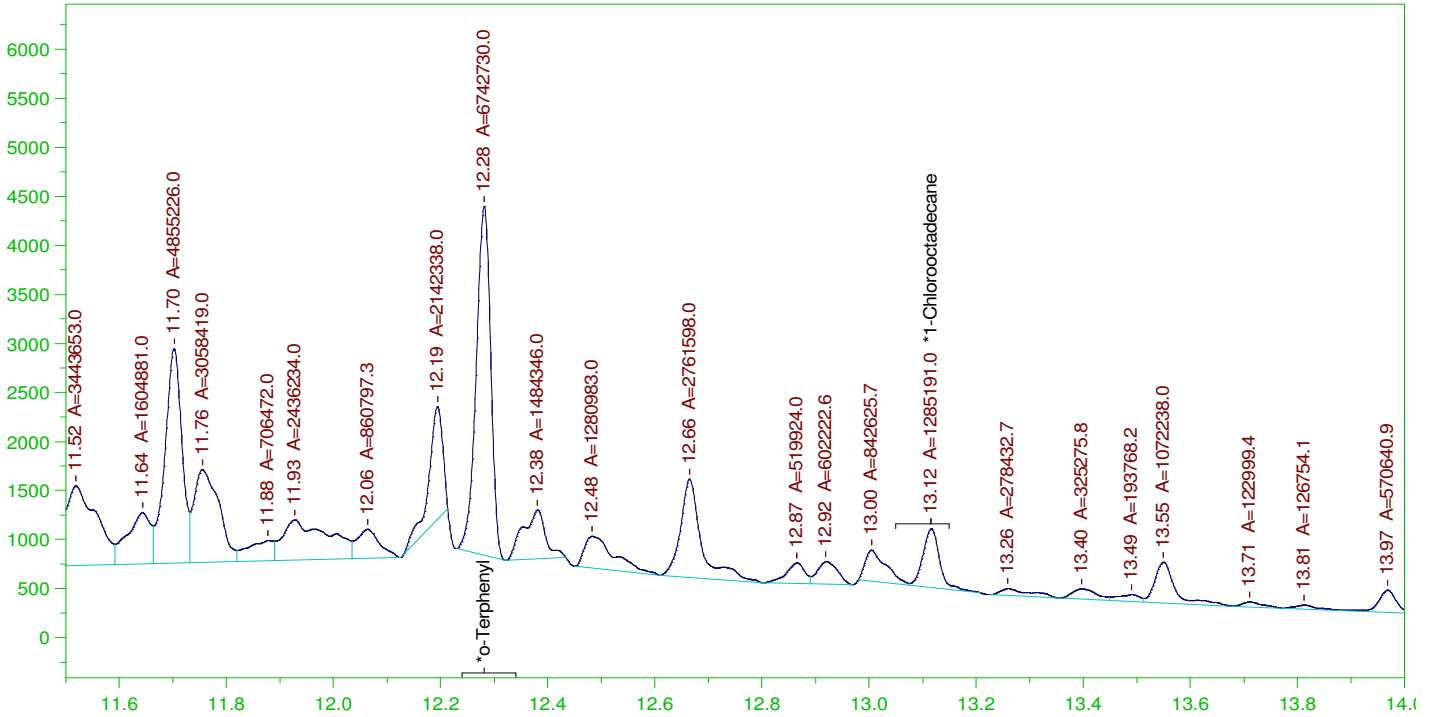
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14439.97	96.27	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.281	200.	314.974	157.49	85-115
*1-Chlorooctadecane	13.116	200.	151.159	75.58	85-115

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW

CCV\_1103HP550r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP550r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW  
 Date & Time Acquired: 11/4/2021 9:04:14 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

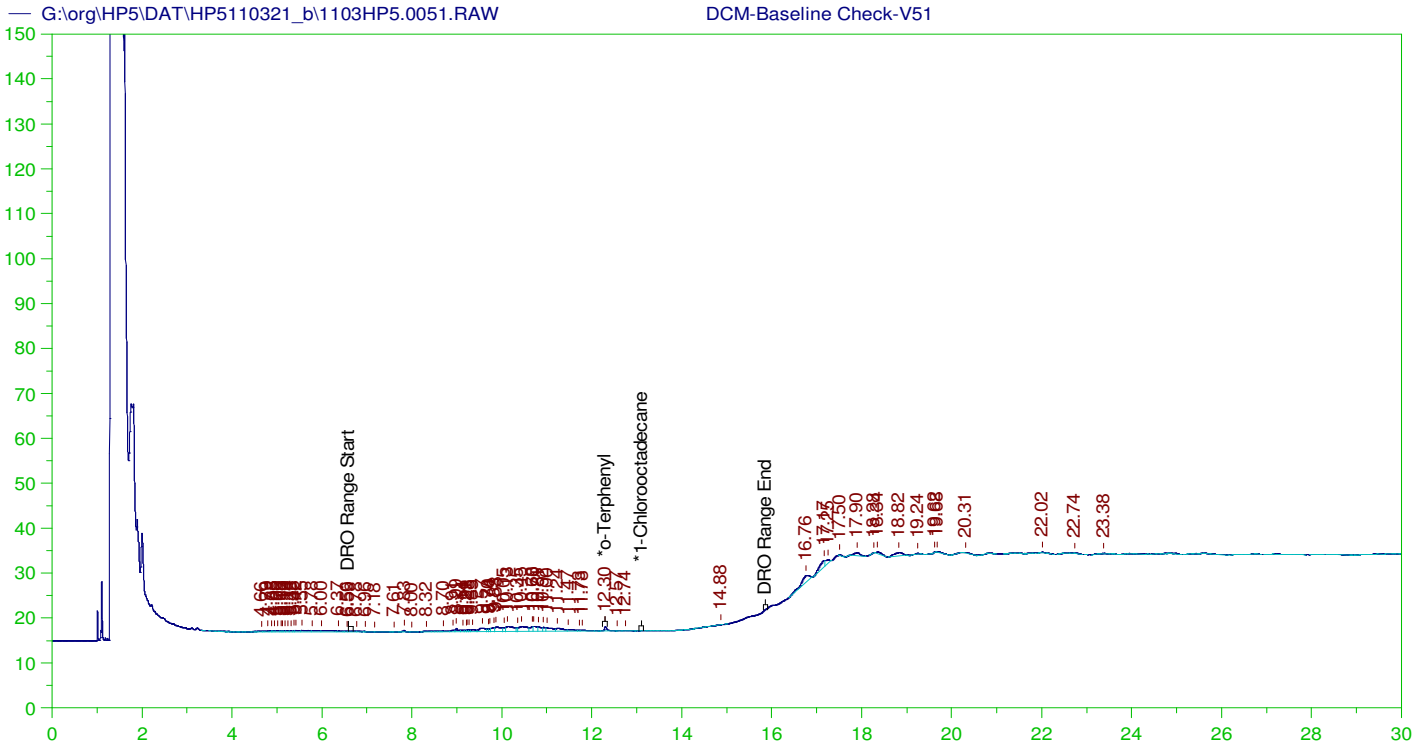
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.281	200.	189.887	94.94
*1-Chlorooctadecane	13.116	200.	36.193	18.1

DRO Area: 2.488818E+08 DRO Amount: 7938.006  
 TEH Area: 2.589092E+08 TEH Amount: 8257.827

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0050.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8257.83	55.05	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.281	200.	189.887	94.94	85-115
*1-Chlorooctadecane	13.116	200.	36.193	18.1	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V51  
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 Date & Time Acquired: 11/4/2021 9:47:13 PM  
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 Sample Weight: 1 Dilution: 1 S.A.: 1

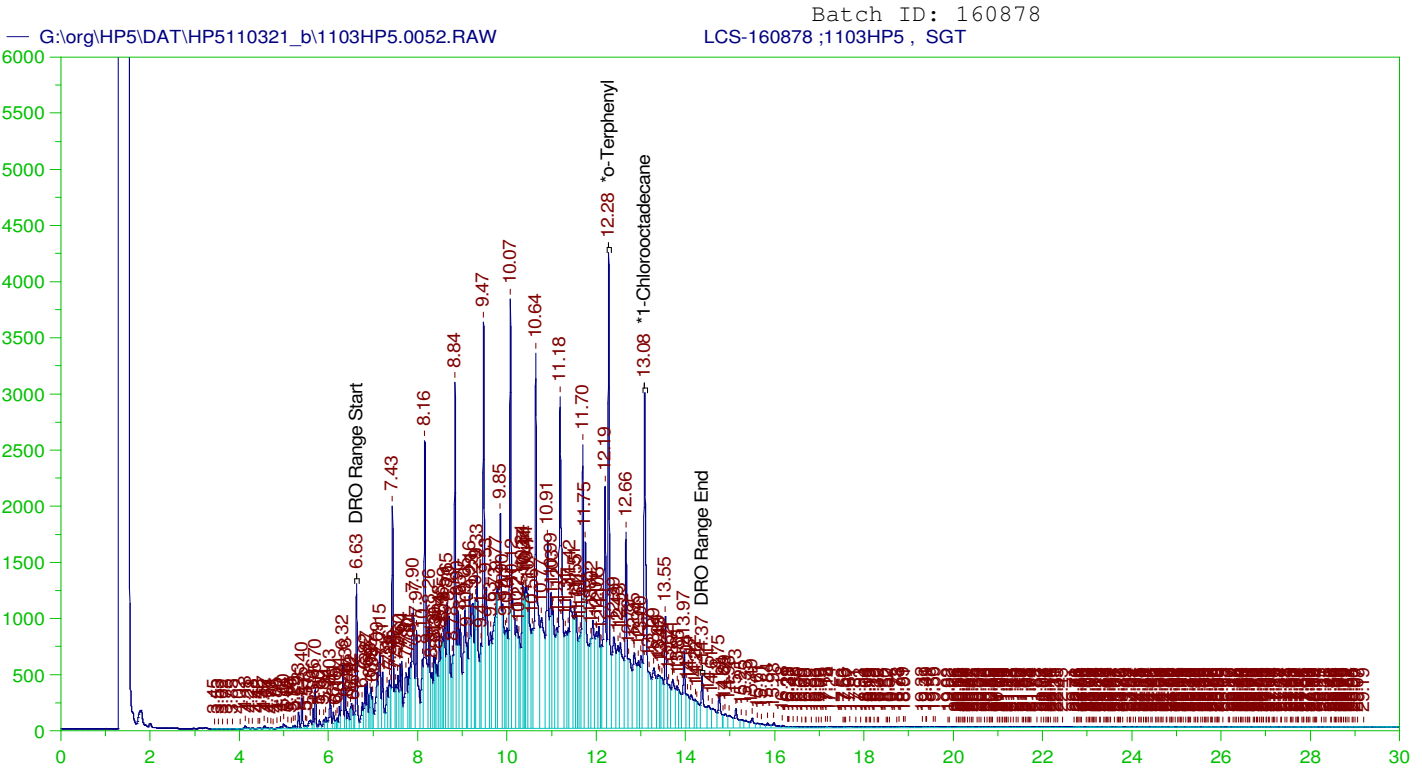
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 15.91

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.299	200.	.155	.08	-
*1-Chlorooctadecane	29.976	200.	.	.	-

DRO Area:148839.8 DRO Amount: 4.747198  
 TEH Area:261379.2 TEH Amount: 8.336607





**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-160878 ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0052.RAW  
 Date & Time Acquired: 11/4/2021 10:30:08 PM  
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 Sample Weight: 1000 Dilution: 1 S.A.: 1

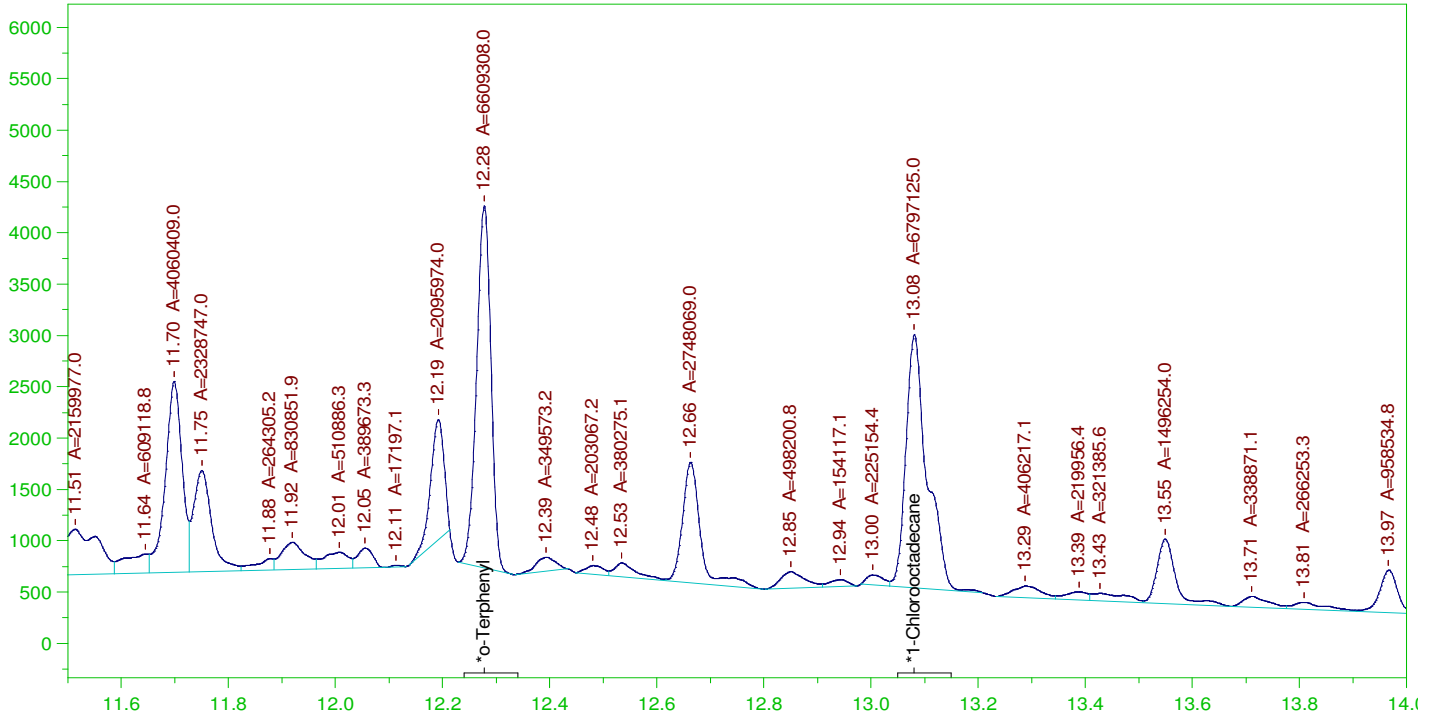
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.278	.2	.309	154.31	-
*1-Chlorooctadecane	13.081	.2	.303	151.66	-

DRO Area: 3.486839E+08 DRO Amount: 11.12116  
 TEH Area: 3.707037E+08 TEH Amount: 11.82348

Batch ID: 160878  
G:\org\HP5\DAT\HP5110321\_b\1103HP5.0052.RAW LCS-160878 ;1103HP5 , SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

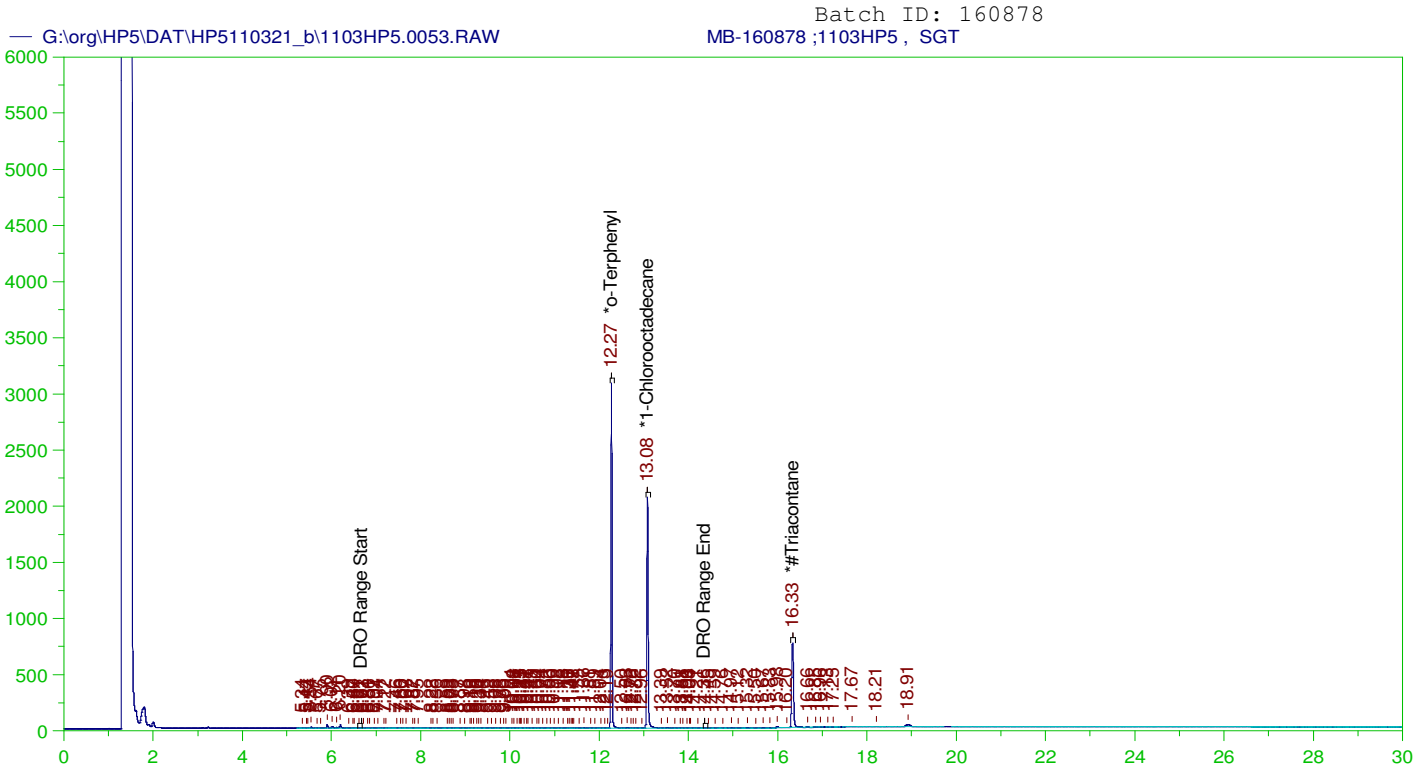
Sample Name: LCS-160878 ;1103HP5 , SGT  
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 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.278	.2	.186	93.06
*1-Chlorooctadecane	13.081	.2	.191	95.71

DRO Area: 1.67548E+08 DRO Amount: 5.343891  
 TEH Area: 1.765692E+08 TEH Amount: 5.631617



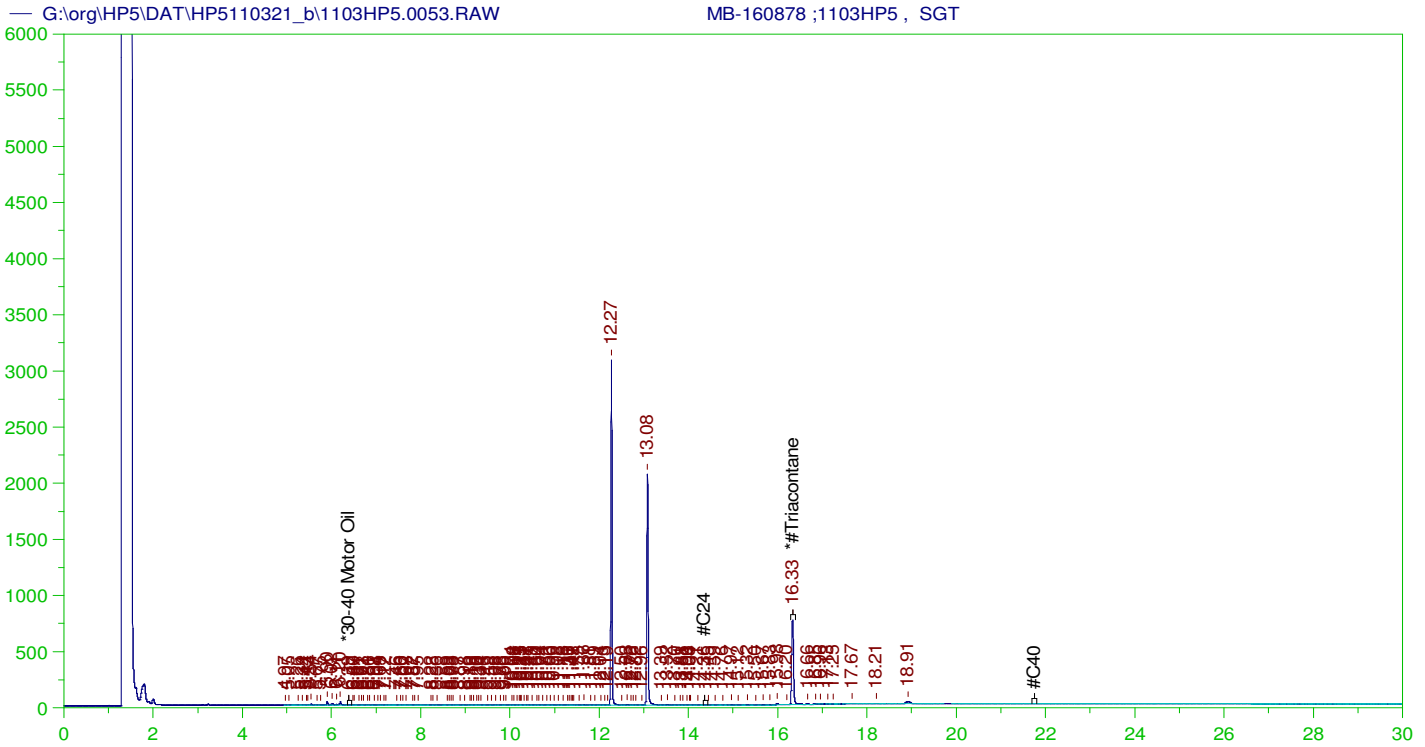
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160878 ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0053.RAW  
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 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19  
 Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.273	.2	.164	82.01	-
*1-Chlorooctadecane	13.076	.2	.13	64.99	-
*#Triacontane	16.33	.2	.072	35.89	-

DRO Area:410465.4 DRO Amount: 1.309166E-02  
 TEH Area:990583.9 TEH Amount: 3.159435E-02



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-160878 ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0053.RAW  
 Date & Time Acquired: 11/4/2021 11:13:06 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-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: 14.33 to 21.8

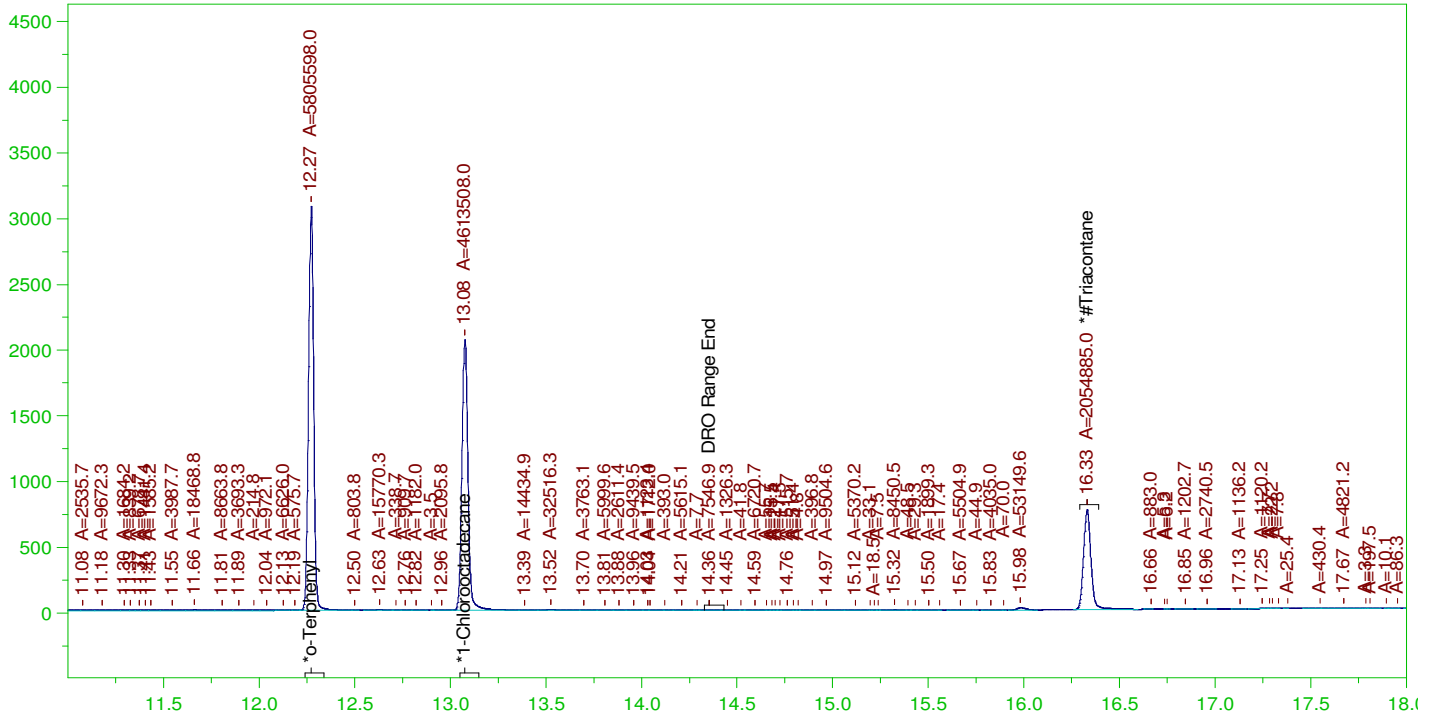
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.33	.5	.072	14.35

RRO Area:269935.9 RRO AMOUNT: 9.457363E-03

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0053.RAW

MB-160878 ;1103HP5 , SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-160878 ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0053.RAW  
 Date & Time Acquired: 11/4/2021 11:13:06 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.273	.2	.163	81.75	-
*1-Chlorooctadecane	13.076	.2	.13	64.96	-
*#Triacontane	16.33	.2	.071	35.51	-

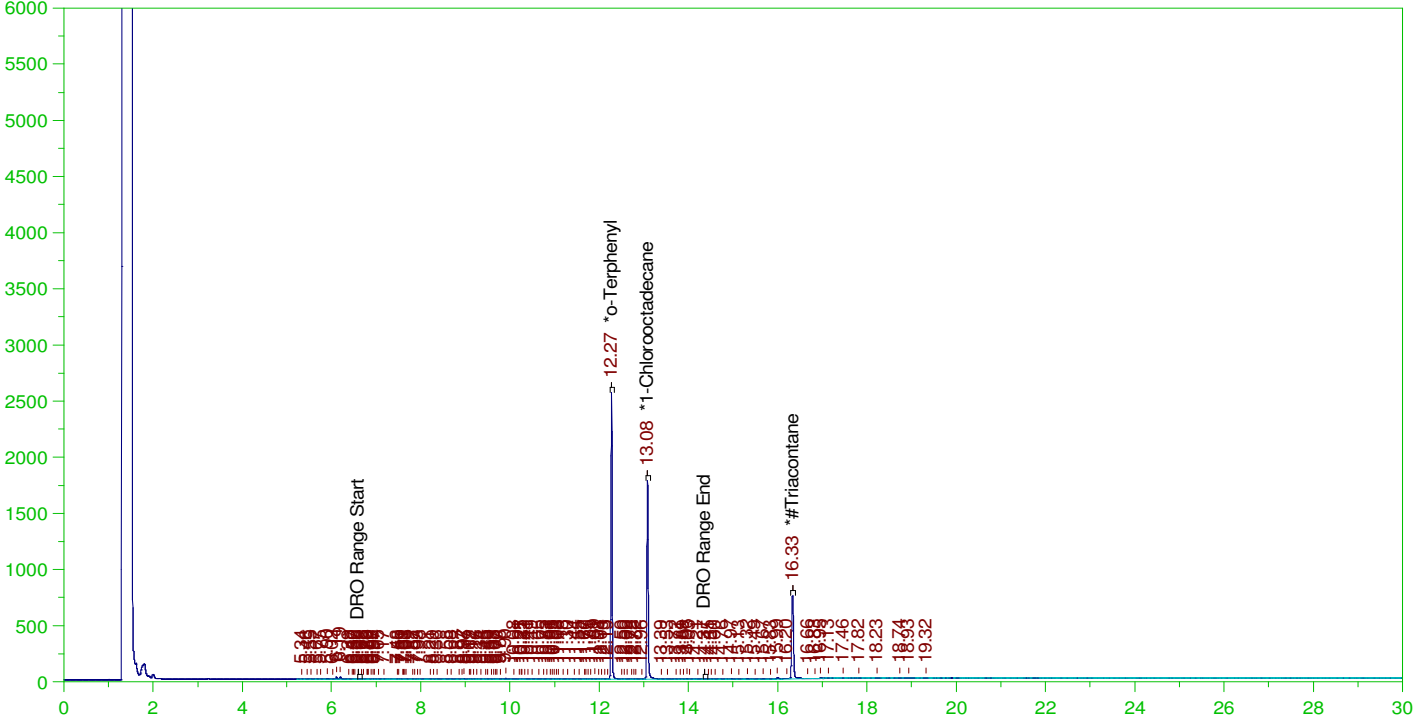
DRO Area:439247.3 DRO Amount: 1.400965E-02  
 TEH Area:1101199 TEH Amount: 0.0351224

ERH1854 (RHMW05)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0054.RAW

B21110057-004A ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-004A ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0054.RAW  
 Date & Time Acquired: 11/4/2021 11:56:04 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.274	.194	.135	69.52	-
*1-Chlorooctadecane	13.078	.194	.108	55.5	-
*#Triacontane	16.329	.194	.067	34.57	-

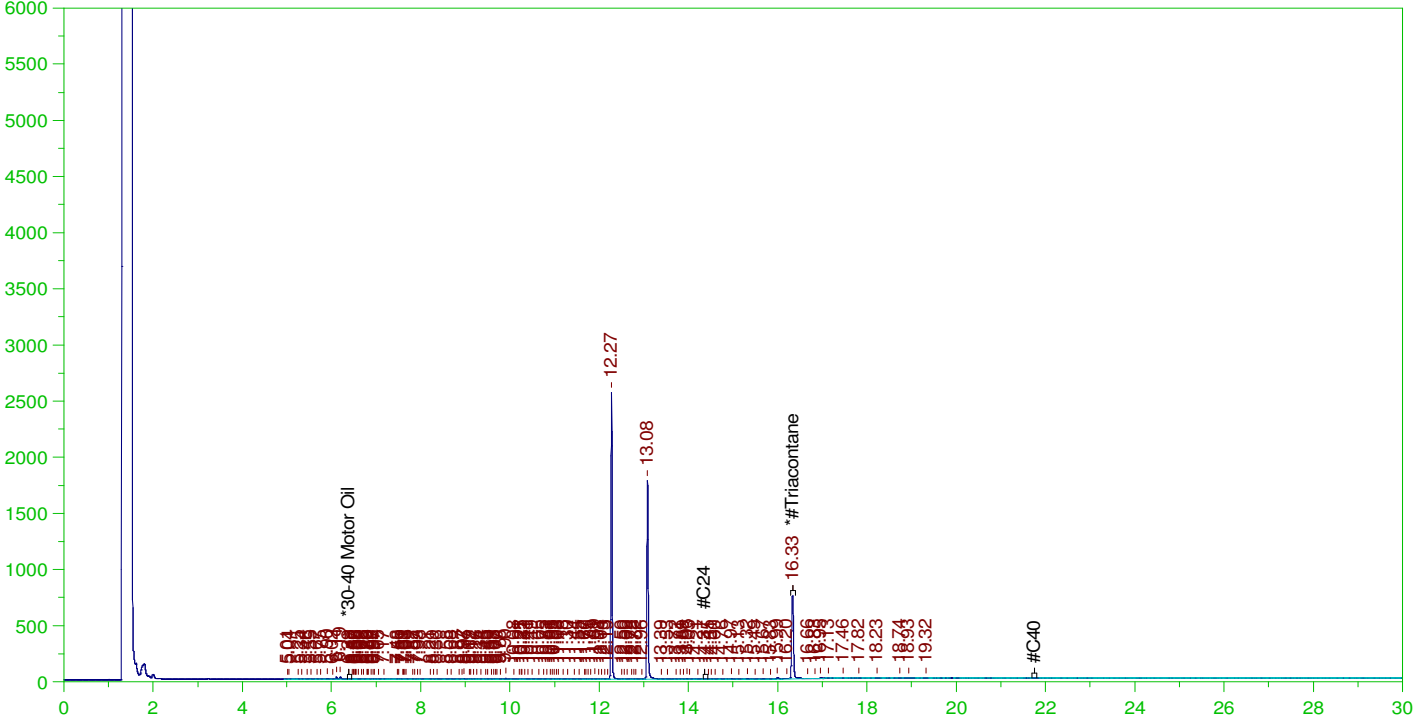
DRO Area: 394119.2 DRO Amount: 1.220418E-02  
 TEH Area: 718141 TEH Amount: 2.223774E-02

ERH1854 (RHMW05)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0054.RAW

B21110057-004A ;1103HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-004A ;1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0054.RAW  
 Date & Time Acquired: 11/4/2021 11:56:04 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.329	.485	.067	13.83

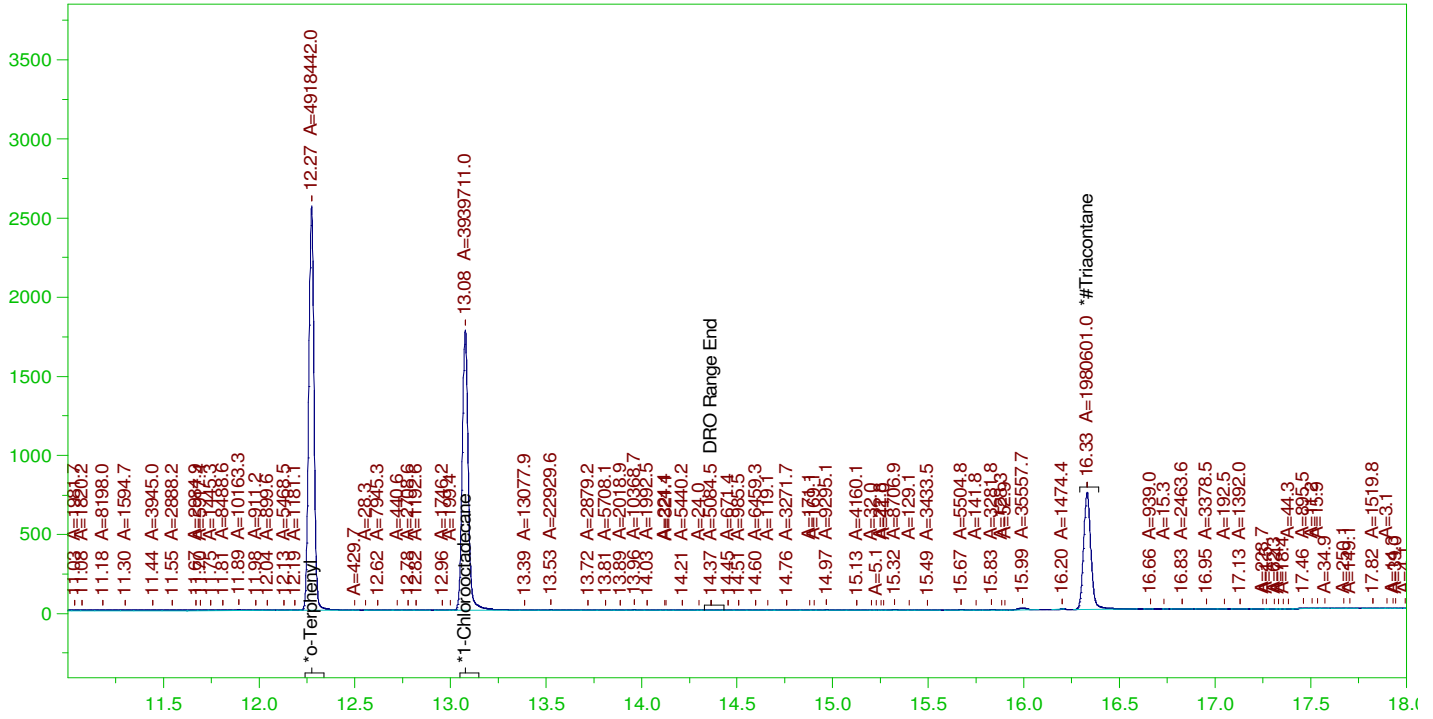
RRO Area:136034.3 RRO AMOUNT: 4.627223E-03

ERH1854 (RHMW05)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0054.RAW

B21110057-004A ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-004A ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0054.RAW  
 Date & Time Acquired: 11/4/2021 11:56:04 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.274	.194	.134	69.26	-
*1-Chlorooctadecane	13.078	.194	.108	55.47	-
*#Triacontane	16.329	.194	.066	34.23	-

DRO Area: 392573.8 DRO Amount: 1.215633E-02  
 TEH Area: 775964.1 TEH Amount: 2.402828E-02

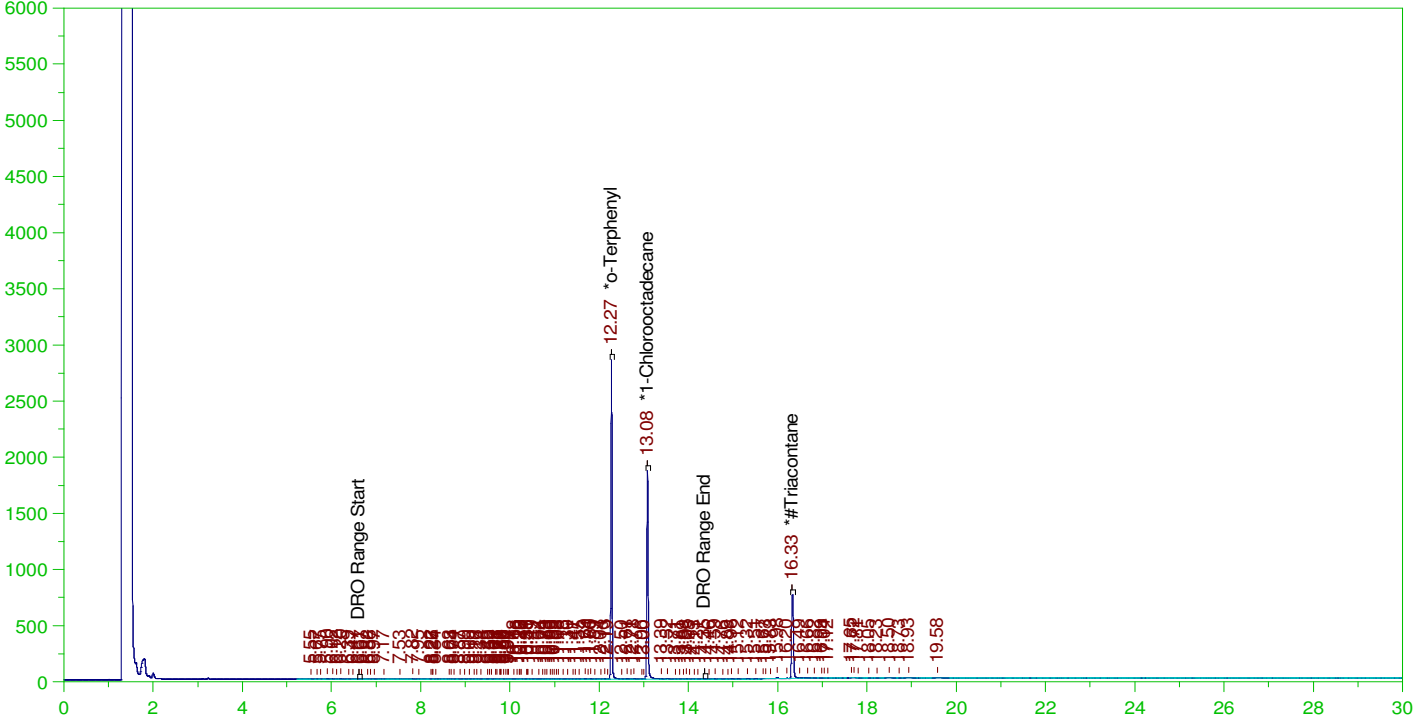


ERH1851 (RHMW03)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0055.RAW

B21110057-003A ;1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-003A ;1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0055.RAW  
 Date & Time Acquired: 11/5/2021 12:39:08 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.273	.202	.154	76.15	-
*1-Chlorooctadecane	13.076	.202	.117	57.94	-
*#Triacontane	16.328	.202	.07	34.45	-

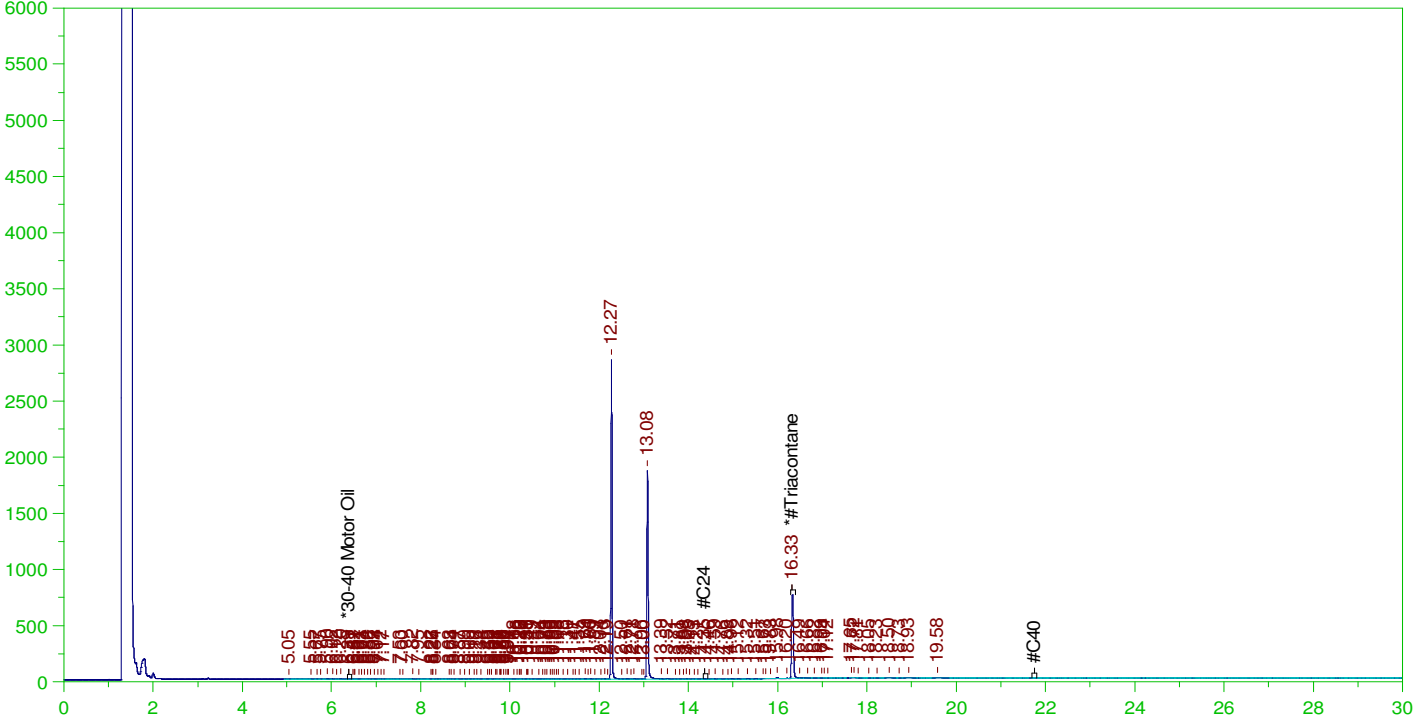
DRO Area:346511.5 DRO Amount: 1.116351E-02  
 TEH Area:711102.8 TEH Amount: 2.290949E-02

ERH1851 (RHMW03)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0055.RAW

B21110057-003A ;1103HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-003A ;1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0055.RAW  
 Date & Time Acquired: 11/5/2021 12:39:08 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.328	.505	.07	13.77	-

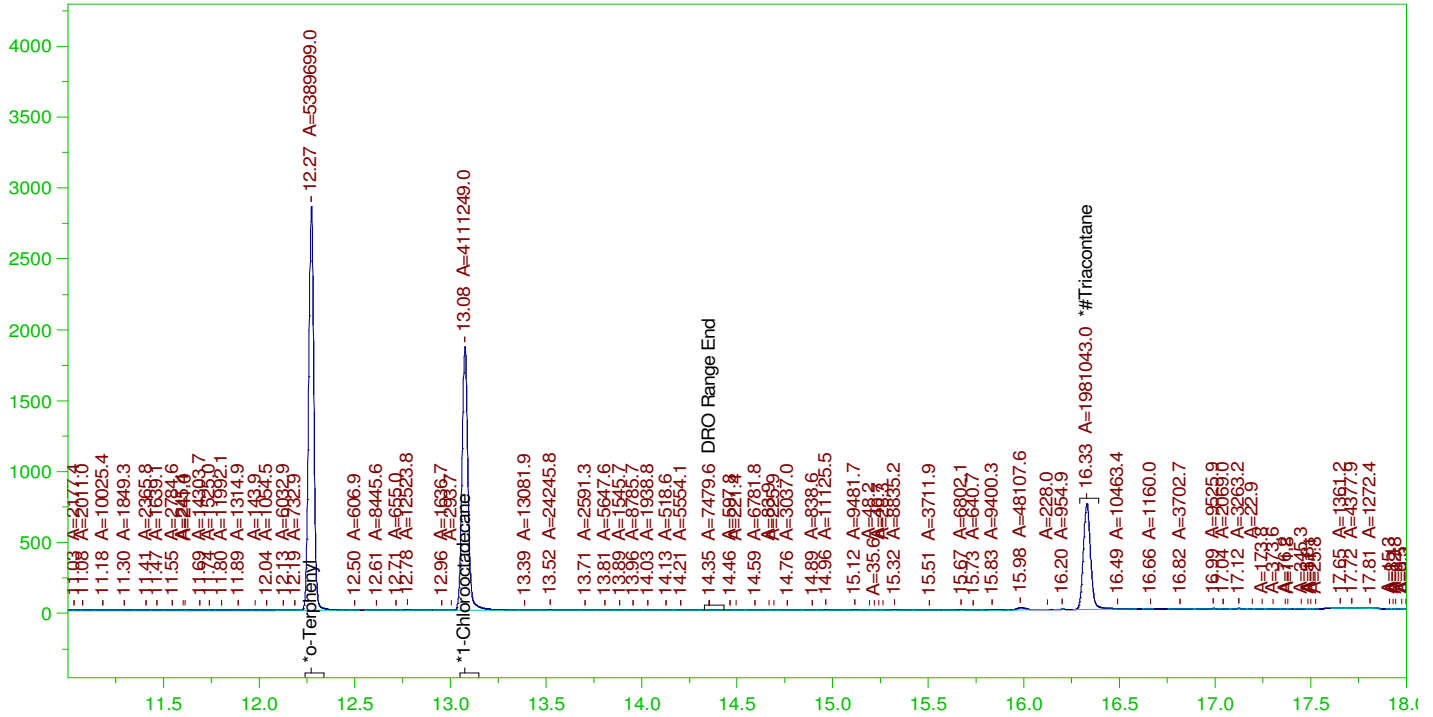
RRO Area:272478.9 RRO AMOUNT: 9.642886E-03

ERH1851 (RHMW03)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0055.RAW

B21110057-003A ;1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-003A ;1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0055.RAW  
 Date & Time Acquired: 11/5/2021 12:39:08 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.273	.202	.153	75.89
*1-Chlorooctadecane	13.076	.202	.117	57.89
*#Triacontane	16.328	.202	.069	34.24

DRO Area:327660.9  
 TEH Area:748814.1

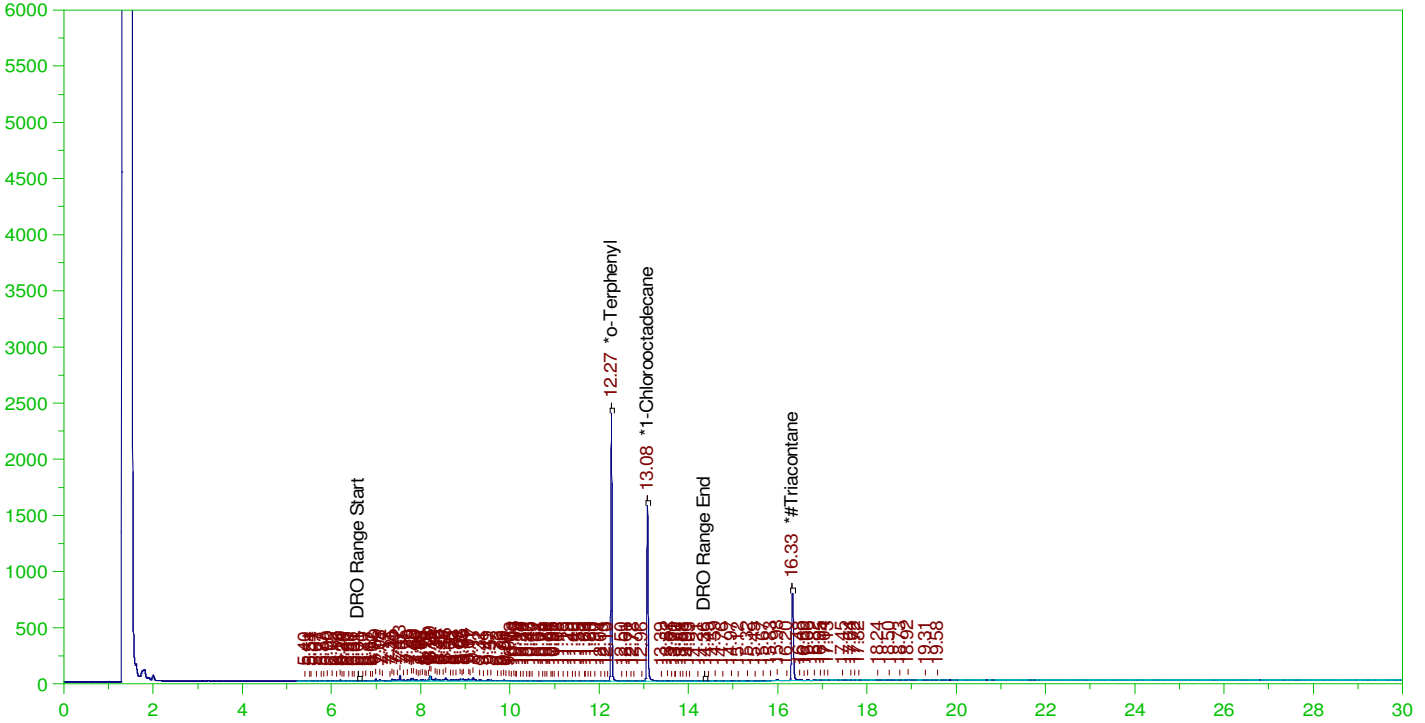
DRO Amount: 0.0105562  
 TEH Amount: 2.412443E-02

ERH1845 (RHMW01R)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0056.RAW

B21110057-001A ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-001A ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0056.RAW  
 Date & Time Acquired: 11/5/2021 1:22:14 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.272	.204	.129	63.31	-
*1-Chlorooctadecane	13.076	.204	.101	49.35	-
*#Triacontane	16.328	.204	.074	36.19	-

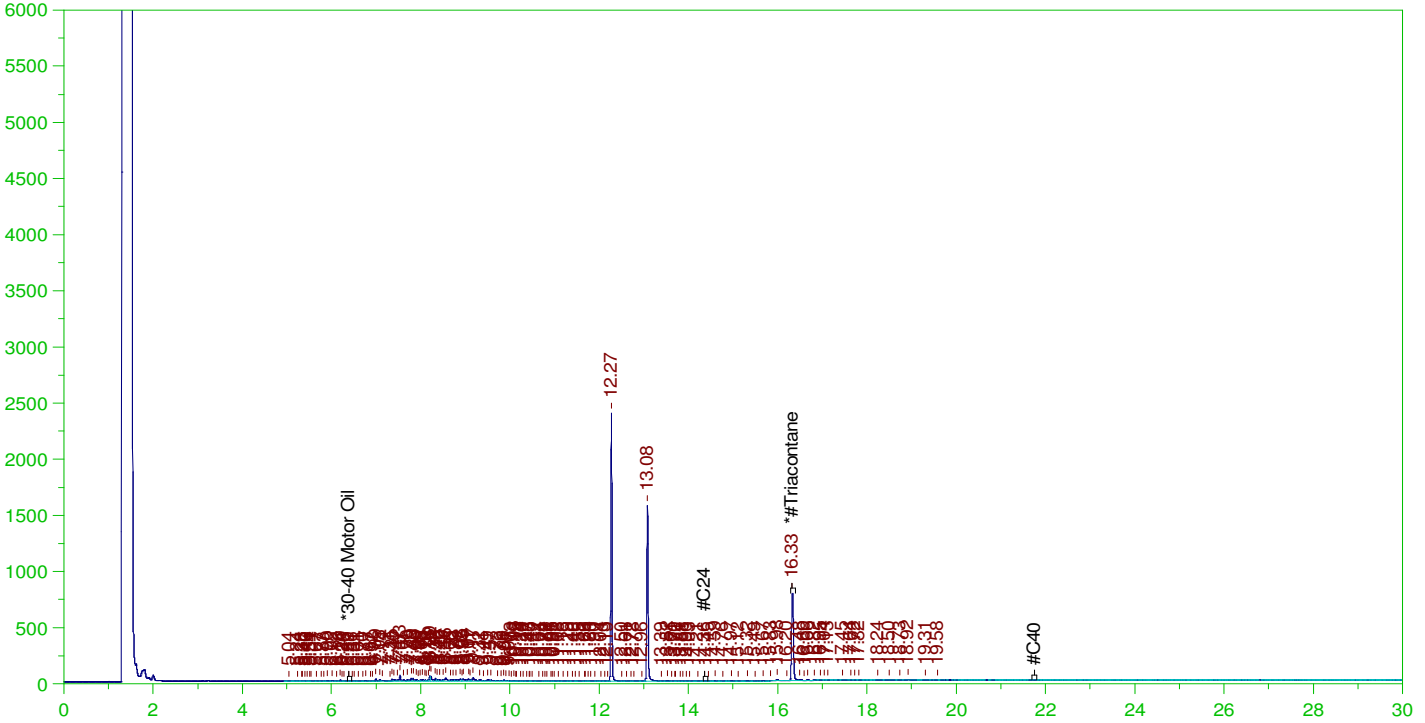
DRO Area: 2405104 DRO Amount: 7.827552E-02  
 TEH Area: 2718371 TEH Amount: 8.847097E-02

ERH1845 (RHMW01R)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0056.RAW

B21110057-001A ; 1103HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-001A ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0056.RAW  
 Date & Time Acquired: 11/5/2021 1:22:14 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.328	.51	.074	14.48	-

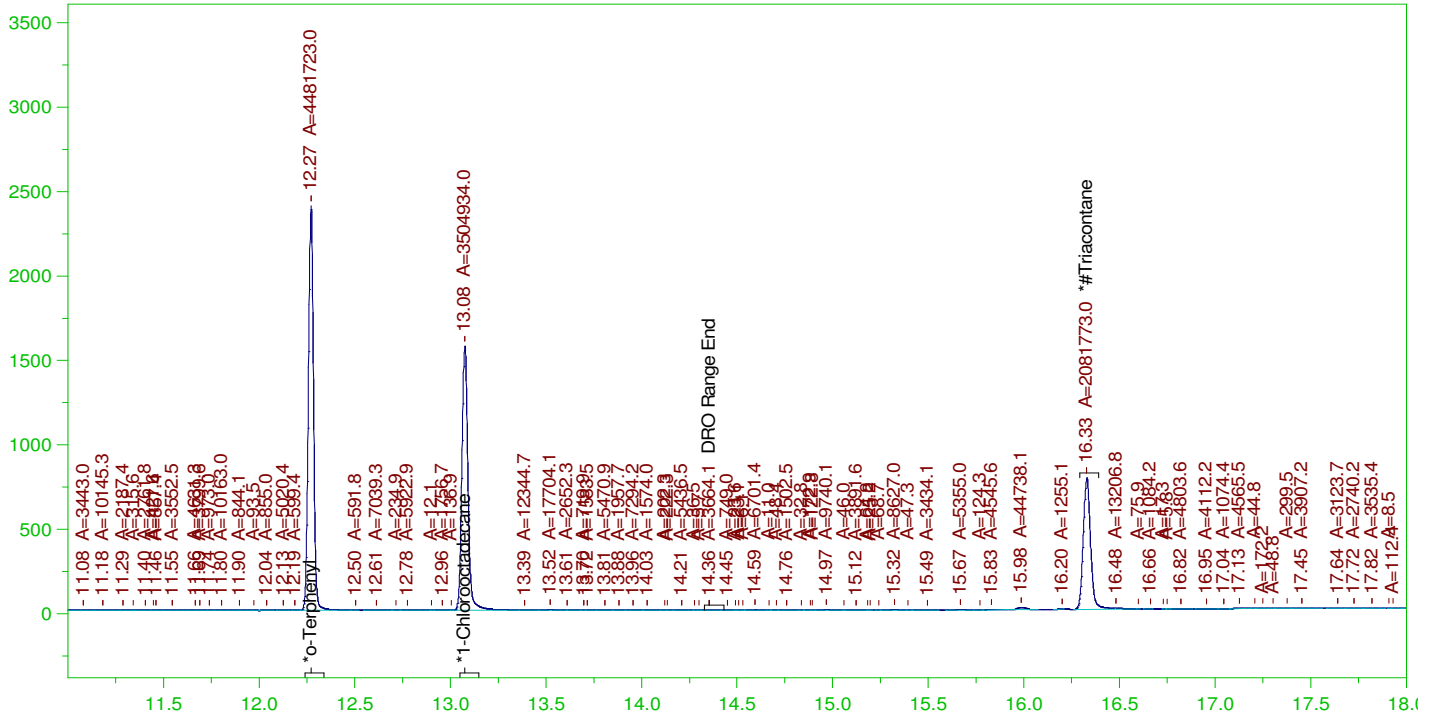
RRO Area:199145 RRO AMOUNT: 7.119553E-03

ERH1845 (RHMW01R)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0056.RAW

B21110057-001A ;1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-001A ;1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0056.RAW  
 Date & Time Acquired: 11/5/2021 1:22:14 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.272	.204	.129	63.11
*1-Chlorooctadecane	13.076	.204	.101	49.35
*#Triacontane	16.328	.204	.073	35.98

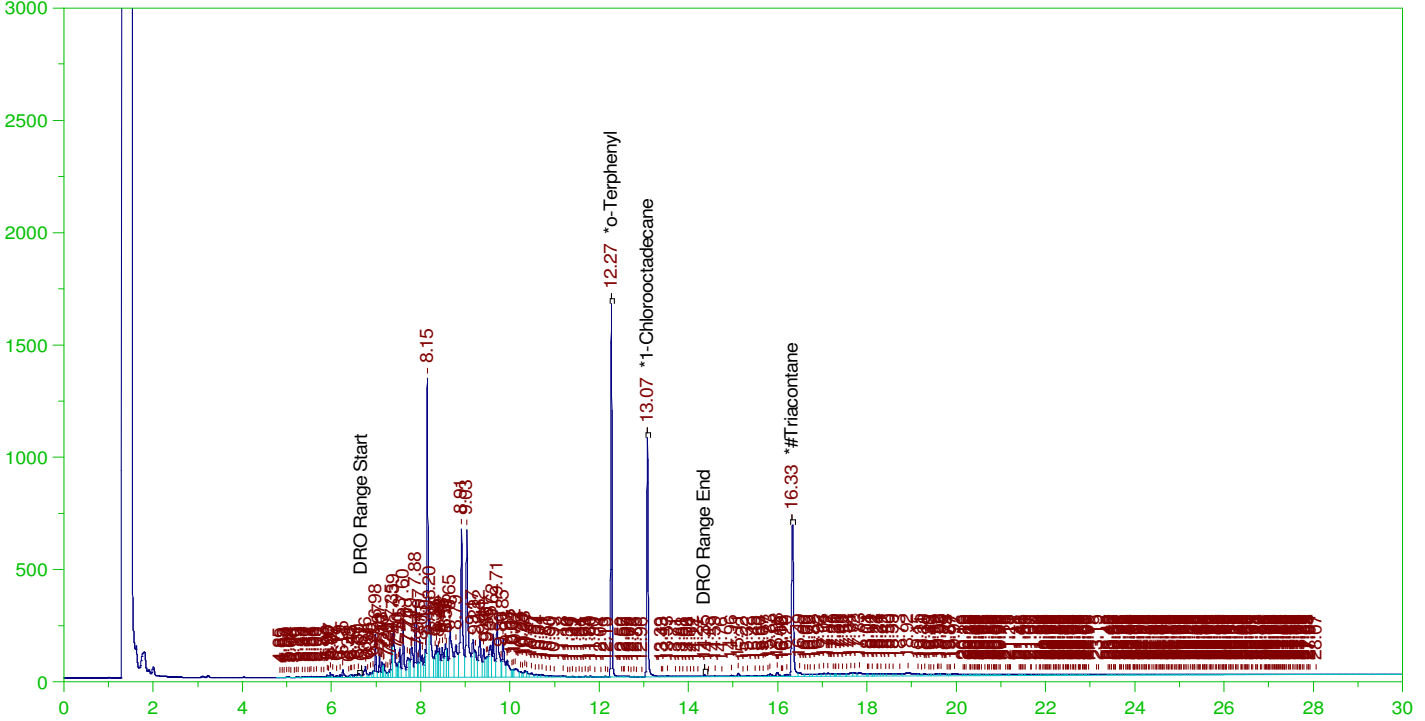
DRO Area:2511994 DRO Amount: 8.175433E-02  
 TEH Area:2923325 TEH Amount: 9.514133E-02

ERH1848 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0057.RAW

B21110057-002A ;1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110057-002A ;1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0057.RAW  
 Date & Time Acquired: 11/5/2021 2:05:12 AM  
 Method File: G:\Org\HP5\Methods\D3\_8015-110357-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.271	.196	.088	44.91	-
*1-Chlorooctadecane	13.075	.196	.066	33.67	-
*#Triacontane	16.328	.196	.064	32.77	-

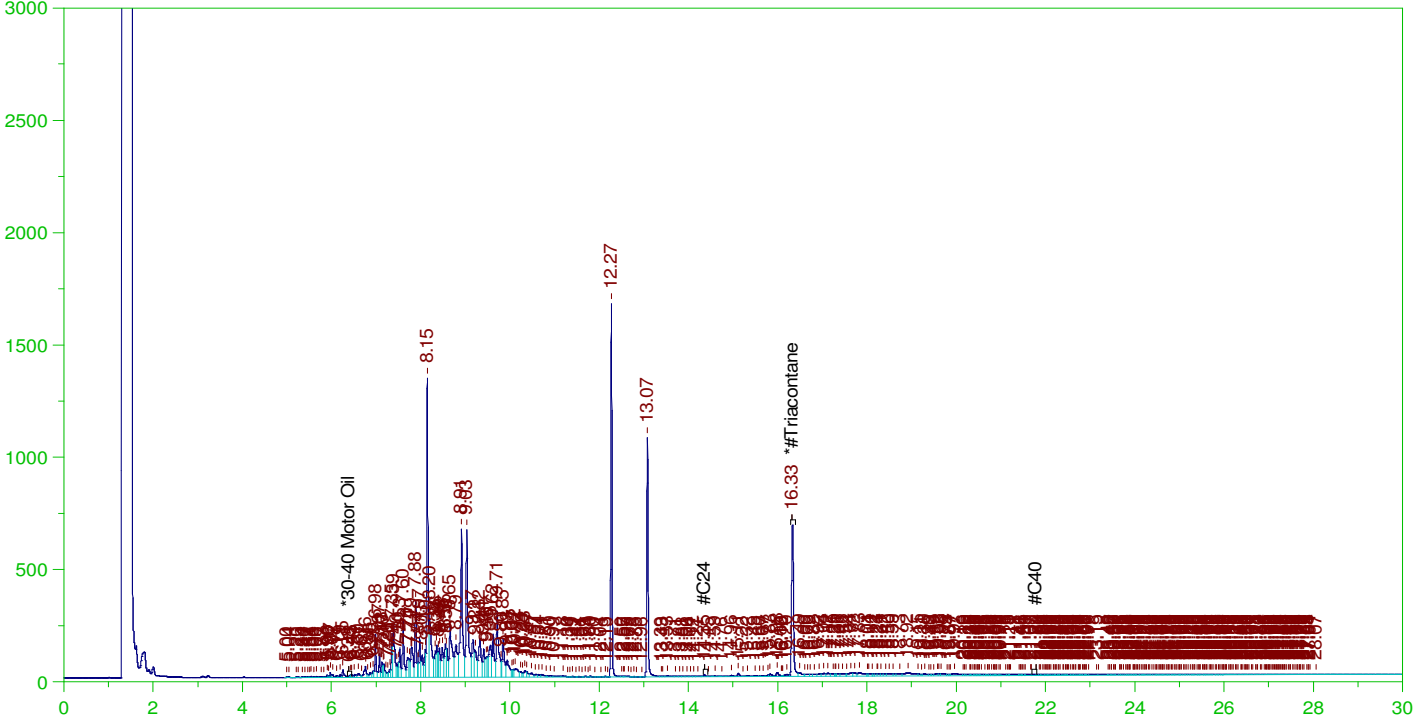
DRO Area: 2.415433E+07 DRO Amount: 0.7552887  
 TEH Area: 2.854957E+07 TEH Amount: 0.8927249

ERH1848 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0057.RAW

B21110057-002A ;1103HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110057-002A ;1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0057.RAW  
 Date & Time Acquired: 11/5/2021 2:05:12 AM  
 Method File: G:\Org\HP5\Methods\D3\_OROSb-110357-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.328	.49	.064	13.11	-

RRO Area:3005375 RRO AMOUNT: 0.1032304

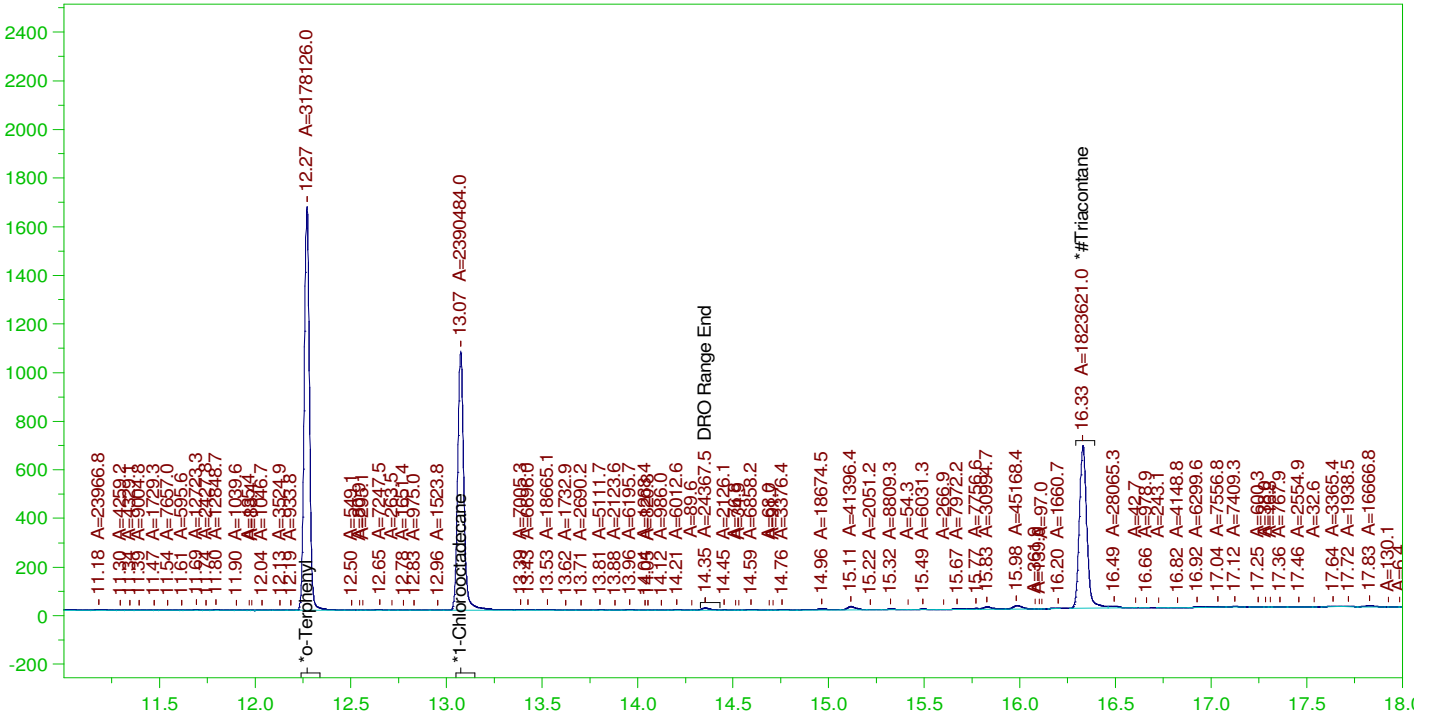


ERH1848 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0057.RAW

B21110057-002A ;1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

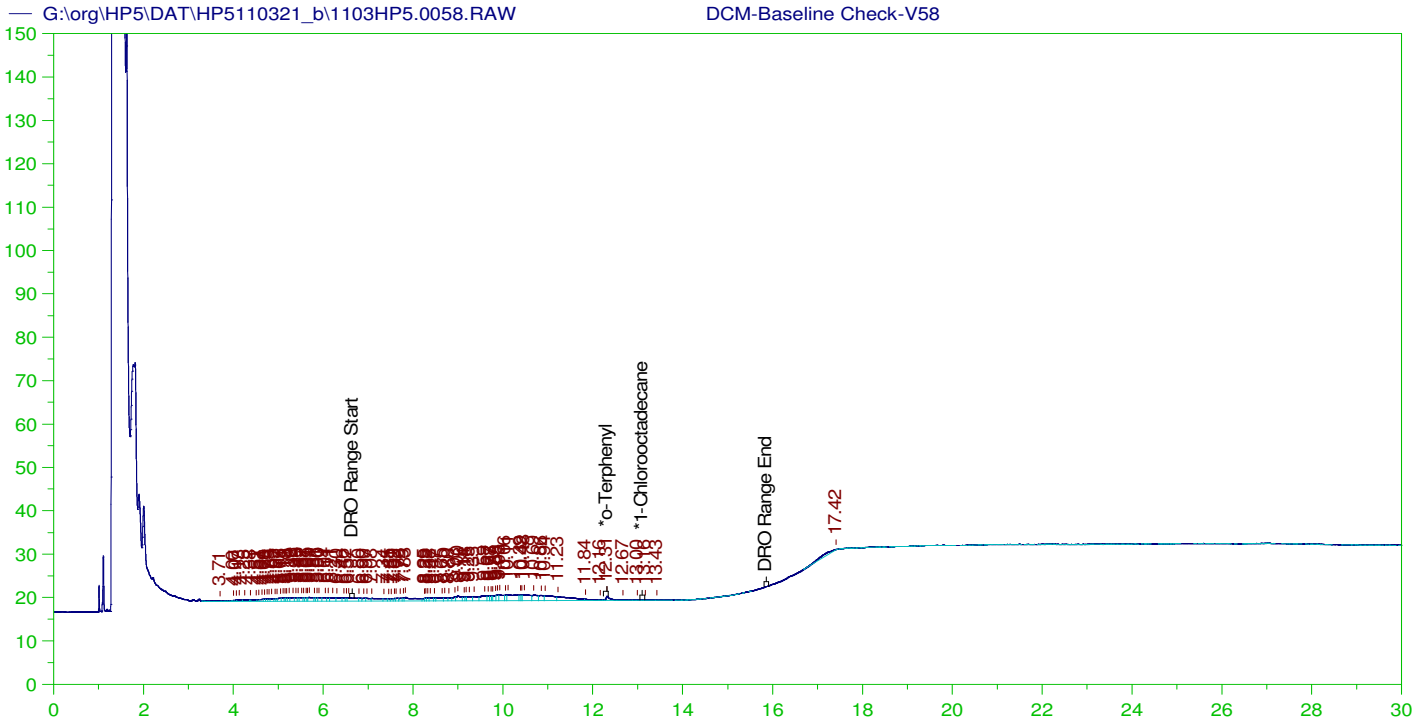
Sample Name: B21110057-002A ;1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0057.RAW  
 Date & Time Acquired: 11/5/2021 2:05:12 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.271	.196	.088	44.75
*1-Chlorooctadecane	13.075	.196	.066	33.66
*#Triacontane	16.328	.196	.062	31.52

DRO Area: 2.41604E+07 DRO Amount: 0.7554786  
 TEH Area: 2.493598E+07 TEH Amount: 0.7797304



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V58  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0058.RAW  
 Date & Time Acquired: 11/5/2021 2:48:15 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	12.311	200.	.175	.09	-
*1-Chlorooctadecane	29.981	200.	.	.	-

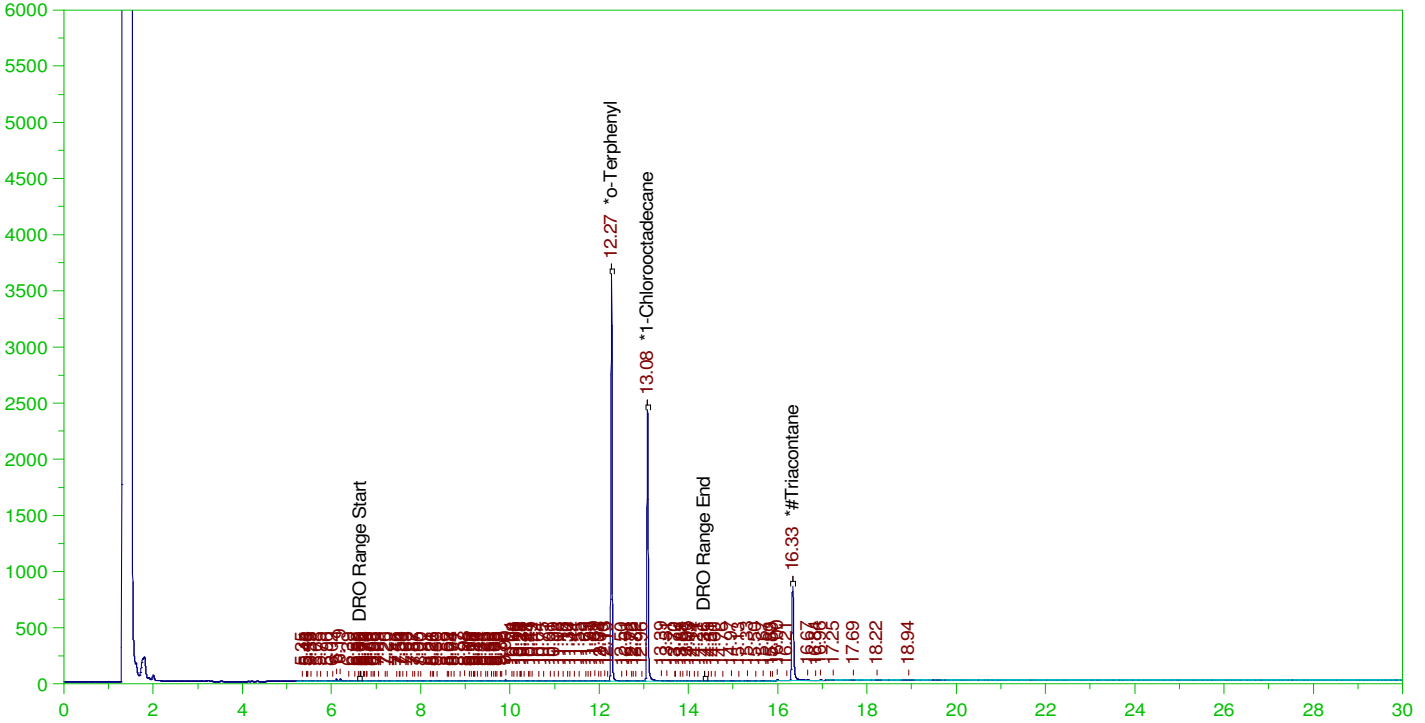
DRO Area:264457.1 DRO Amount: 8.434775  
 TEH Area:400300.1 TEH Amount: 12.76744

ERH1680 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0059.RAW

B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0059.RAW  
 Date & Time Acquired: 11/5/2021 3:31:14 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.275	.196	.191	97.24	-
*1-Chlorooctadecane	13.079	.196	.15	76.35	-
*#Triacontane	16.332	.196	.084	42.88	-

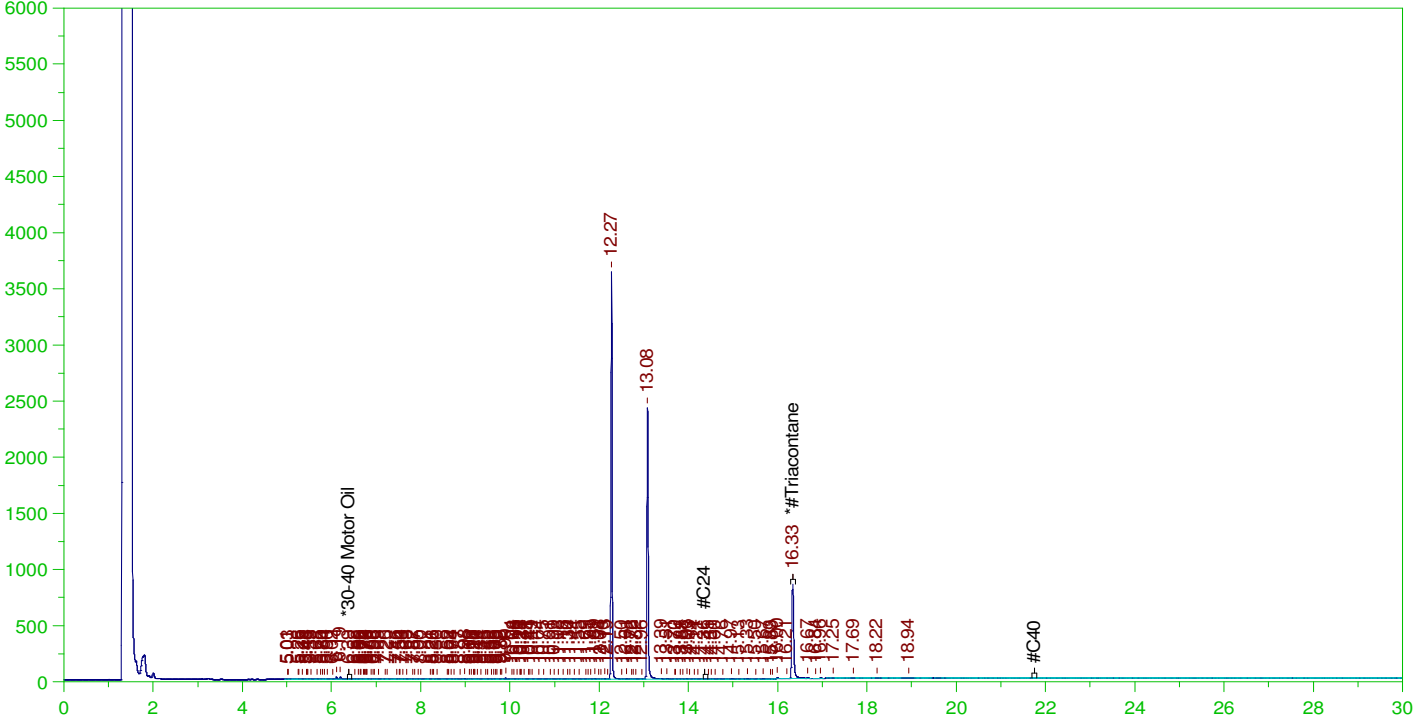
DRO Area: 455222.2 DRO Amount: 1.423448E-02  
 TEH Area: 773047.8 TEH Amount: 2.417266E-02

ERH1680 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0059.RAW

B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0059.RAW  
 Date & Time Acquired: 11/5/2021 3:31:14 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.332	.49	.083	16.91	-

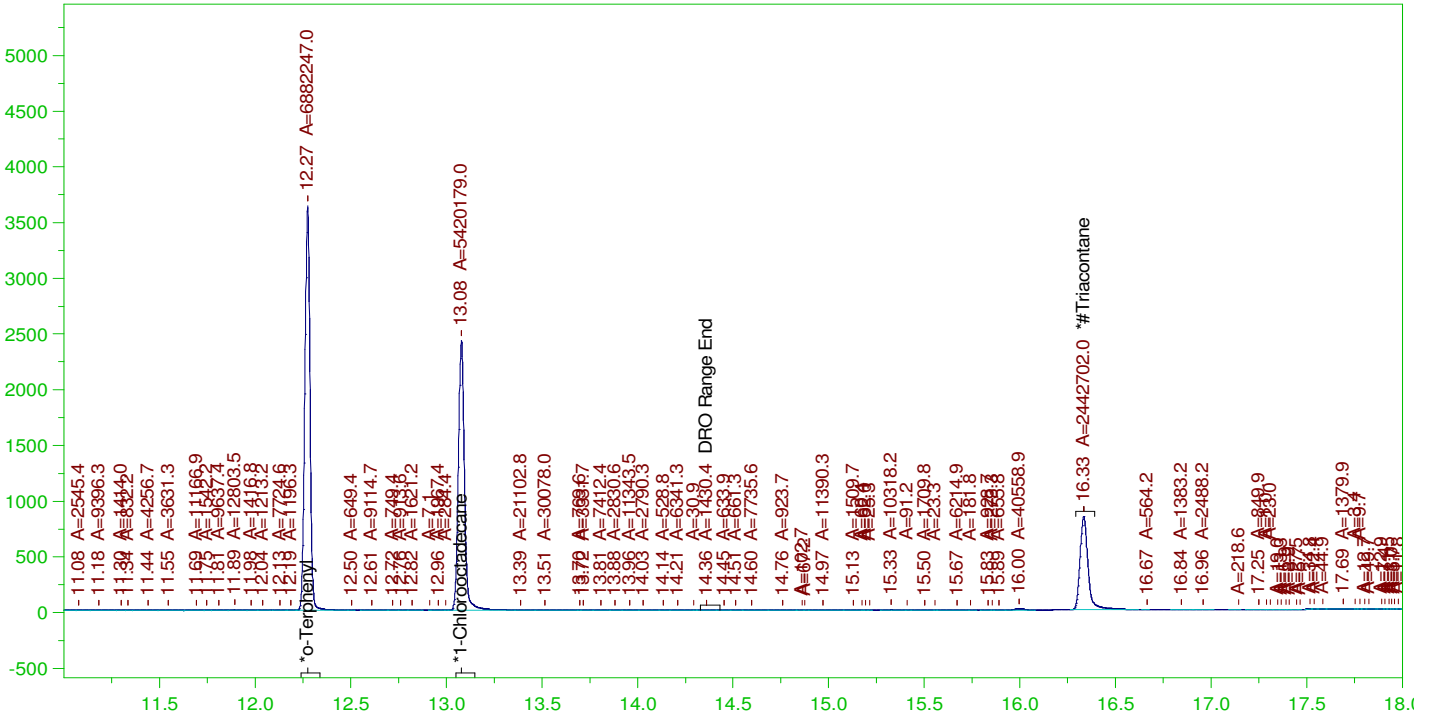
RRO Area:114973.4 RRO AMOUNT: 3.949177E-03

ERH1680 (RHMW2254-01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0059.RAW

B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0059.RAW  
 Date & Time Acquired: 11/5/2021 3:31:14 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

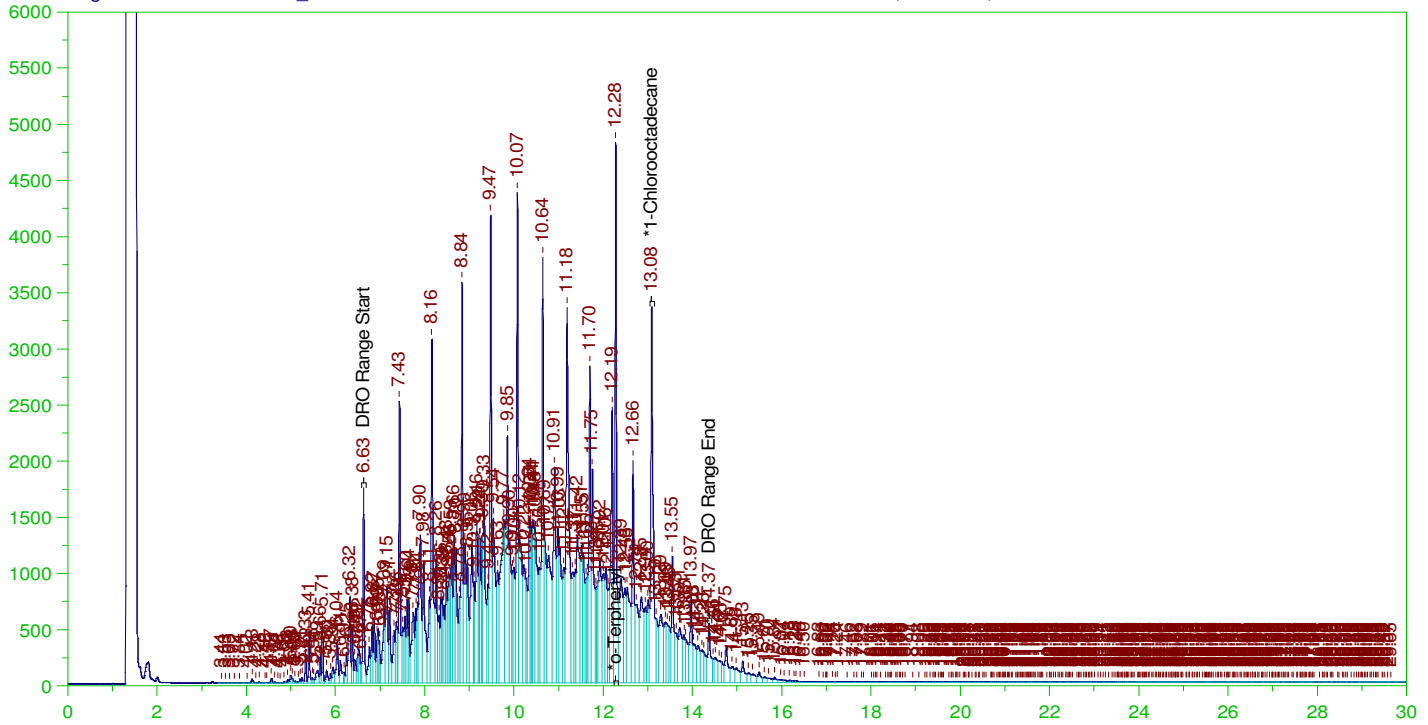
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.275	.196	.19	96.91	-
*1-Chlorooctadecane	13.079	.196	.15	76.32	-
*#Triacontane	16.332	.196	.083	42.22	-

DRO Area: 445339.8 DRO Amount: 1.392546E-02  
 TEH Area: 803055.6 TEH Amount: 2.511098E-02

Batch ID: 160878

B21110079-001BMS ;1103HP5 , SGT

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0060.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110079-001BMS ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0060.RAW  
 Date & Time Acquired: 11/5/2021 4:14:07 AM  
 Method File: G:\Org\HP5\Methods\D3\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

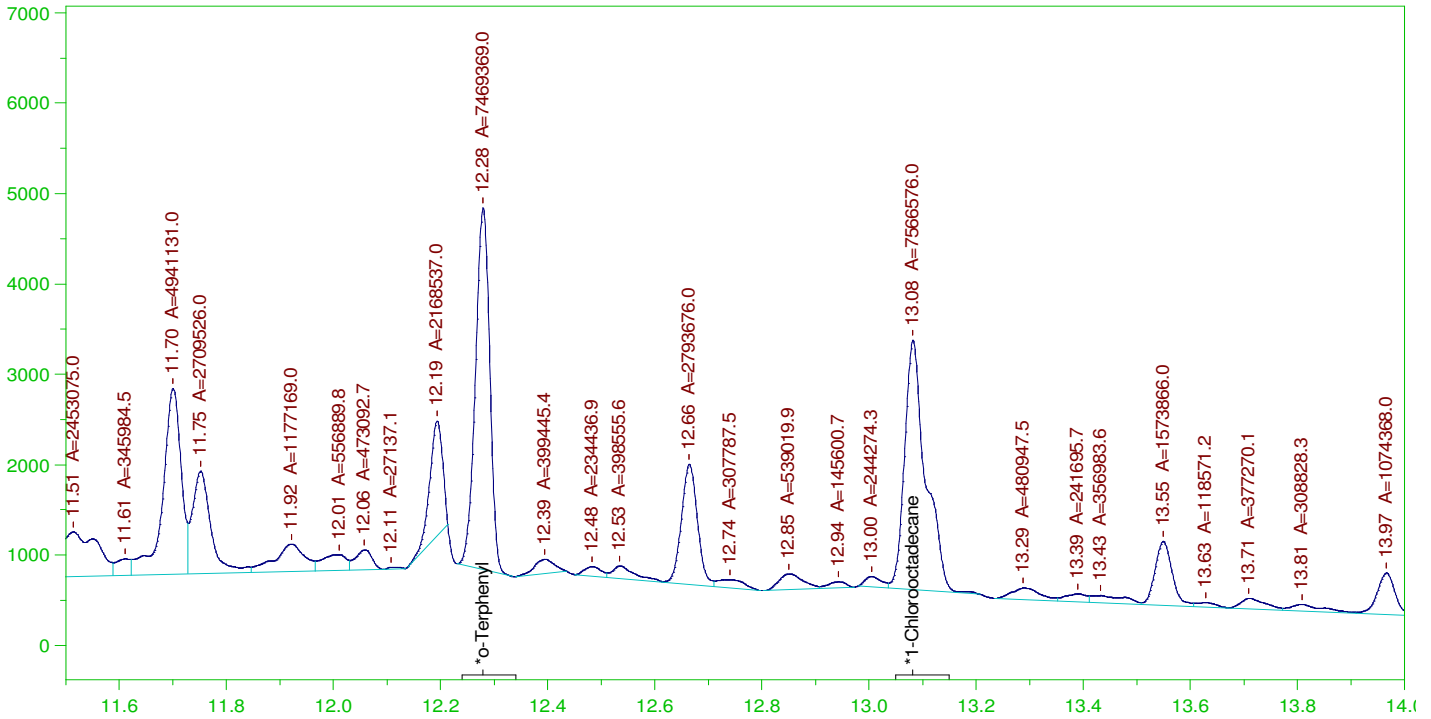
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.279	.192	.342	177.78 -
*1-Chlorooctadecane	13.082	.192	.337	175.49 -

DRO Area: 4.058377E+08 DRO Amount: 12.44621  
 TEH Area: 4.329898E+08 TEH Amount: 13.27891

Batch ID: 160878

B21110079-001BMS ;1103HP5 , SGT

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0060.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

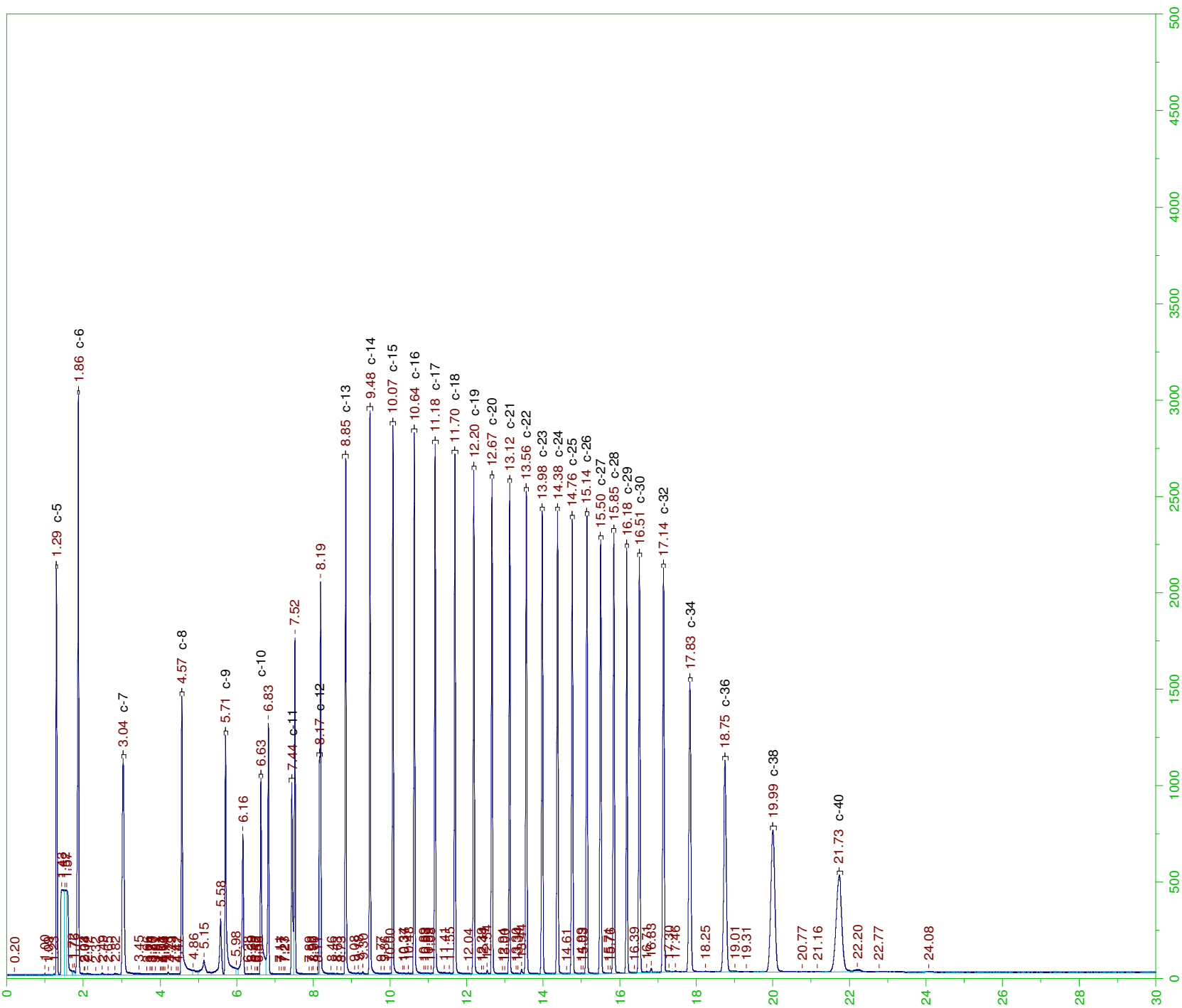
Sample Name: B21110079-001BMS ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0060.RAW  
 Date & Time Acquired: 11/5/2021 4:14:07 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.279	.192	.202	105.18
*1-Chlorooctadecane	13.082	.192	.205	106.54

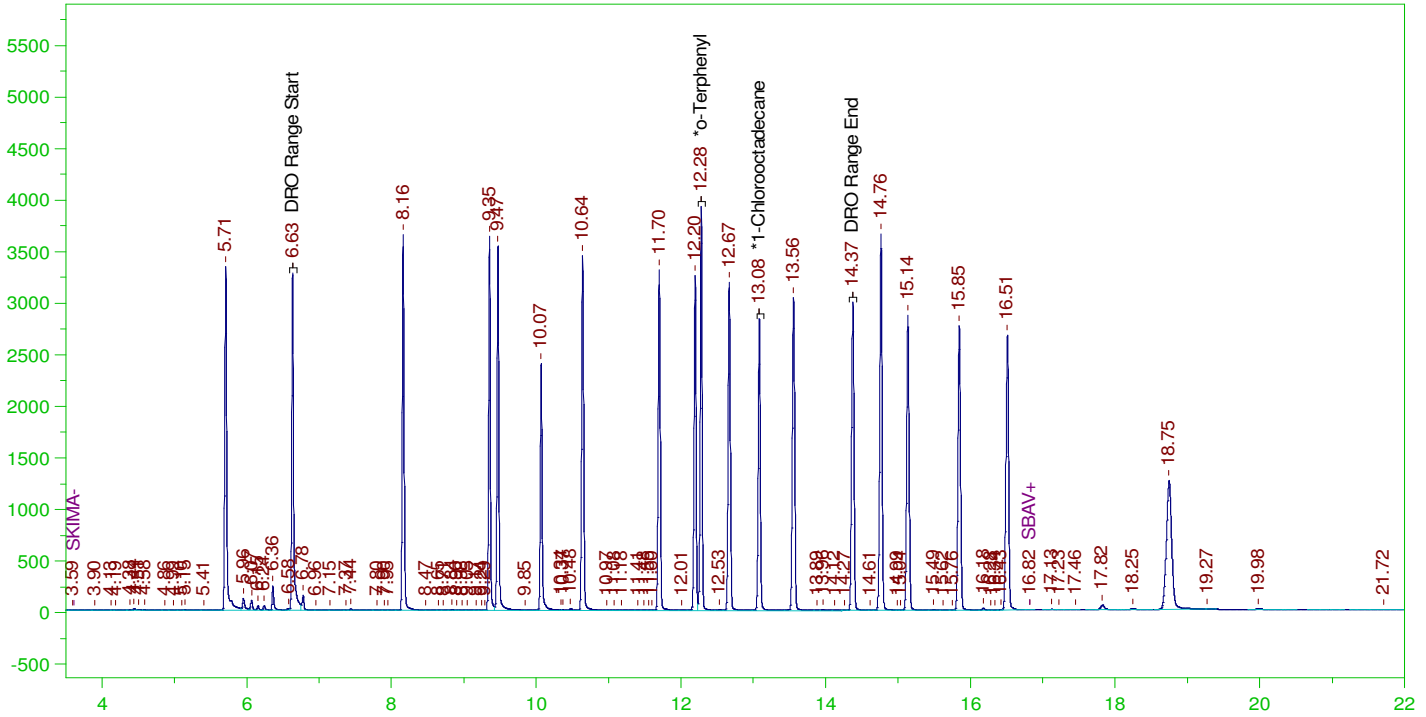
DRO Area:1.978065E+08 DRO Amount: 6.066321  
 TEH Area:2.102317E+08 TEH Amount: 6.447377





G:\org\HP5\DAT\HP5110321\_b\1103HP5.0062.RAW

MARKER\_1103HP563r, DRO ;1103HP5 , DRO211012I



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

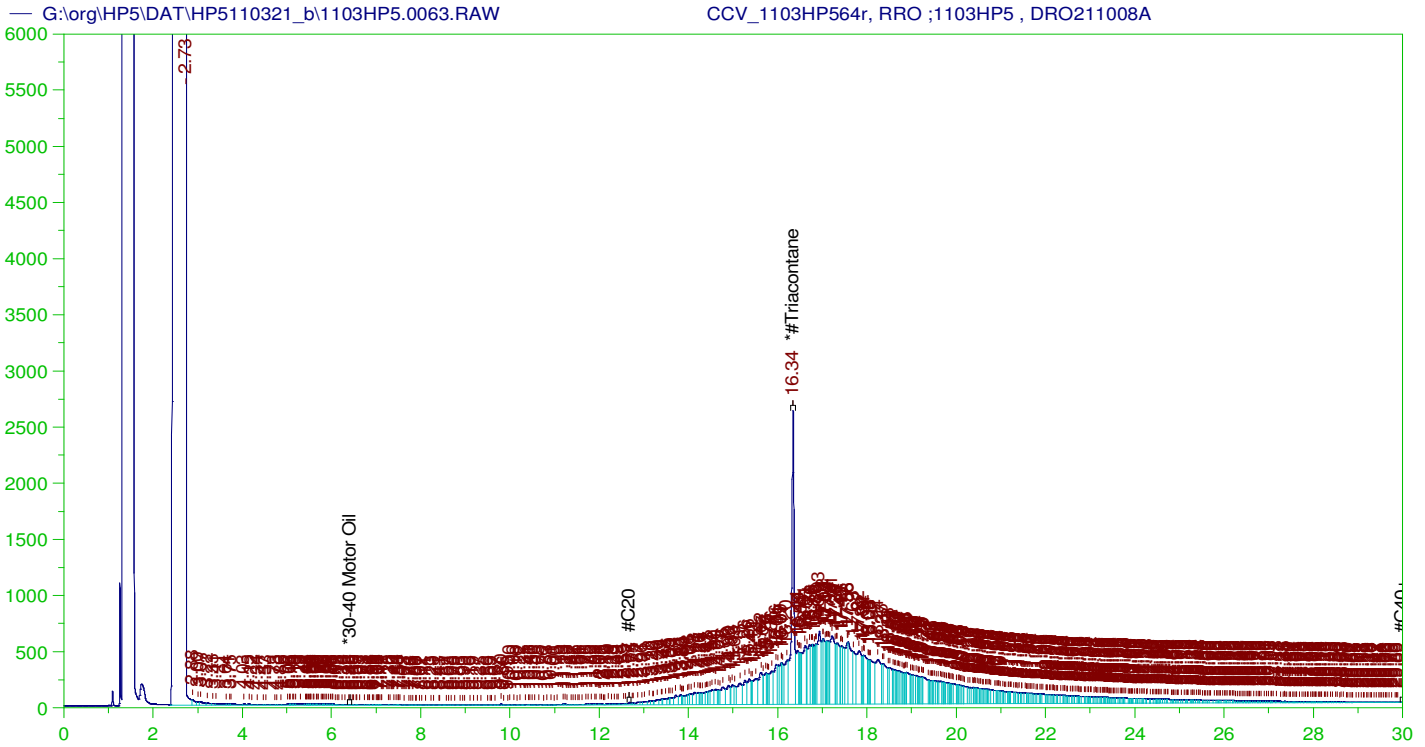
Sample Name: MARKER\_1103HP563r, DRO ;1103HP5 , DRO211012I  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0062.RAW  
 Date & Time Acquired: 11/5/2021 7:38:28 AM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO21102IA-24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.28	.2	.209	104.31	-
*1-Chlorooctadecane	13.082	.2	.168	84.	-

DRO Area: 7.03455E+07 DRO Amount: 2.243647  
 TEH Area: 1.136684E+08 TEH Amount: 3.625418



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP564r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0063.RAW  
 Date & Time Acquired: 11/5/2021 8:21:07 AM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.34	500.	340.323	68.06	-

RRO TEH (Oil Range)Area:1.386765E+08 RRO TEH (Oil Range) AMOUNT: 4858.612

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0063.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.577	.	75-125

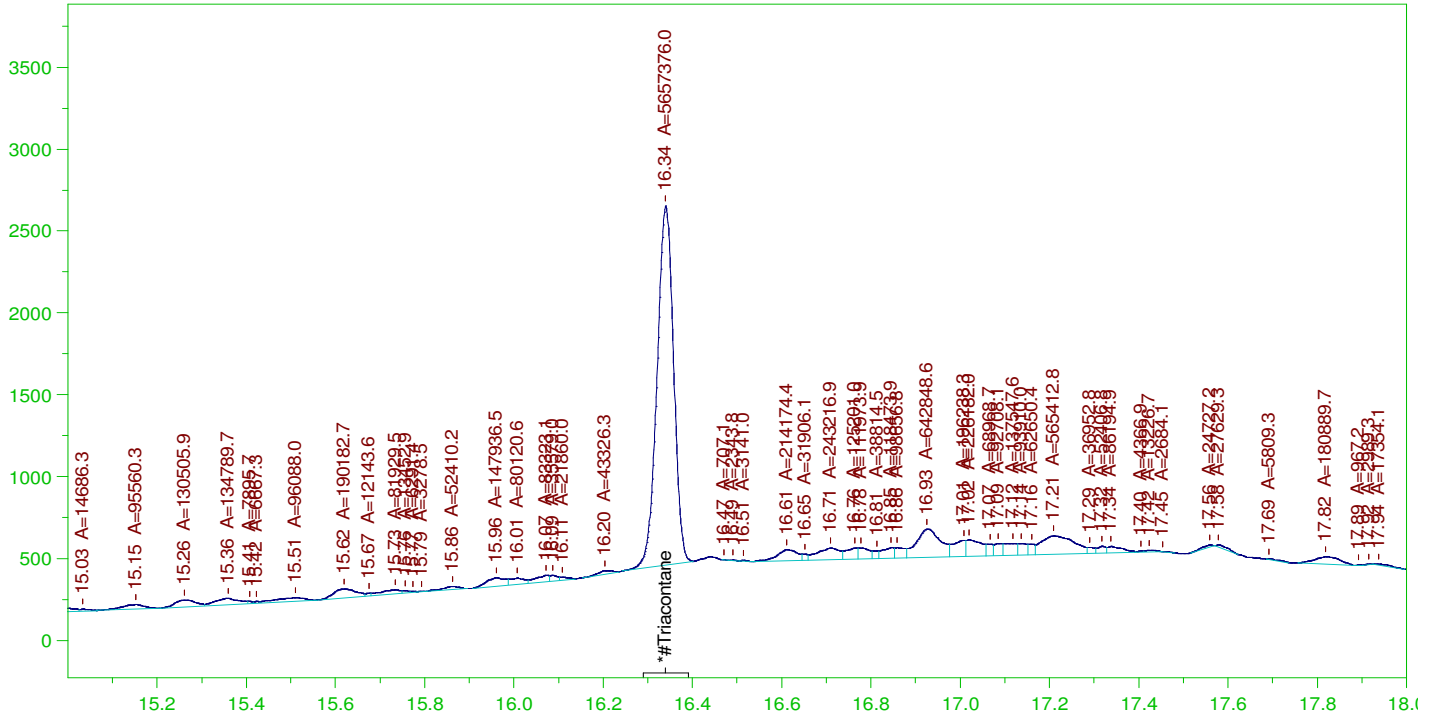
  

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.34	200.	340.323	170.16	75-125

AMN 11/16/2021

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0063.RAW

CCV\_1103HP564r, RRO ;1103HP5 , DRO211008A



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP564r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0063.RAW  
 Date & Time Acquired: 11/5/2021 8:21:07 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.34	500.	195.553	39.11

RRO Area:6209704 RRO AMOUNT: 217.5606

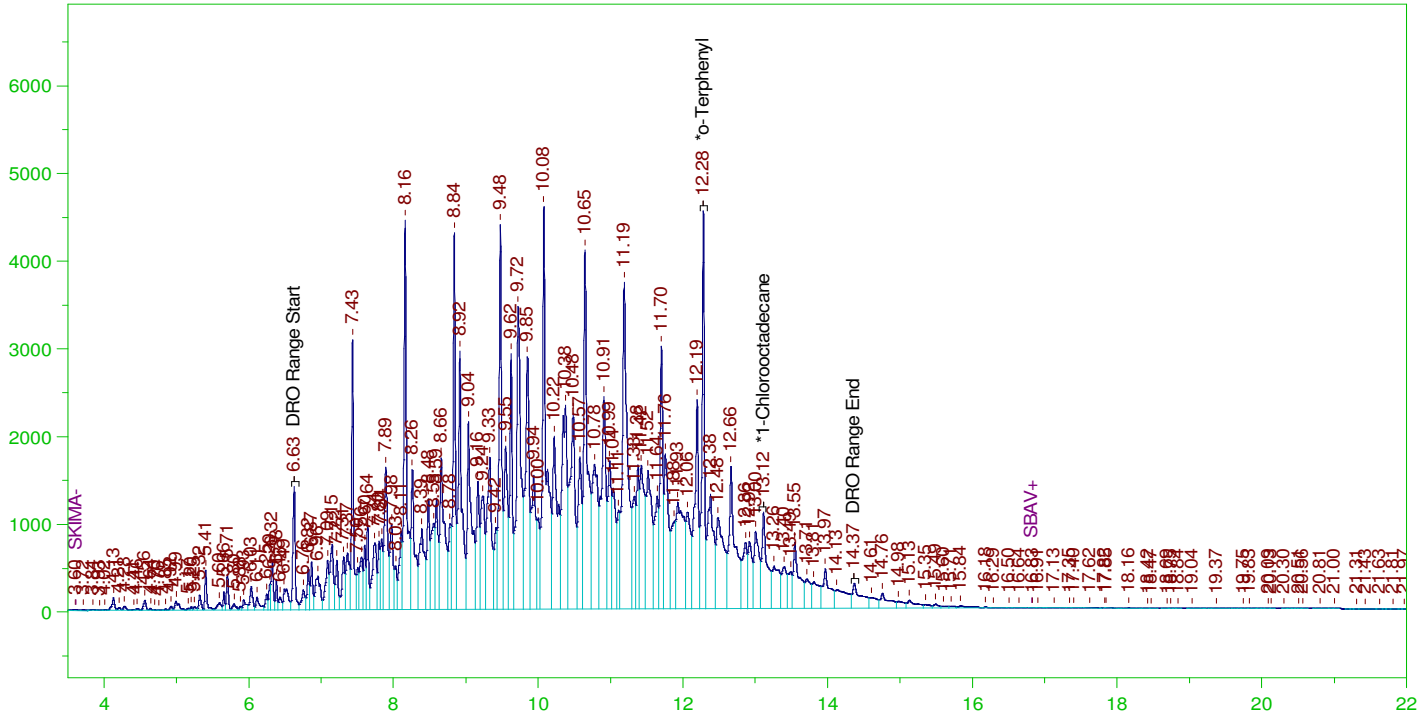
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0063.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.577	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.34	200.	195.553	97.78	75-125

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0064.RAW

CCV\_1103HP565r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP565r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0064.RAW  
 Date & Time Acquired: 11/5/2021 9:03:48 AM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.282	200.	328.144	164.07
*1-Chlorooctadecane	13.115	200.	156.112	78.06

DRO Area: 4.563555E+08 DRO Amount: 14555.31  
 TEH Area: 4.721792E+08 TEH Amount: 15060.01

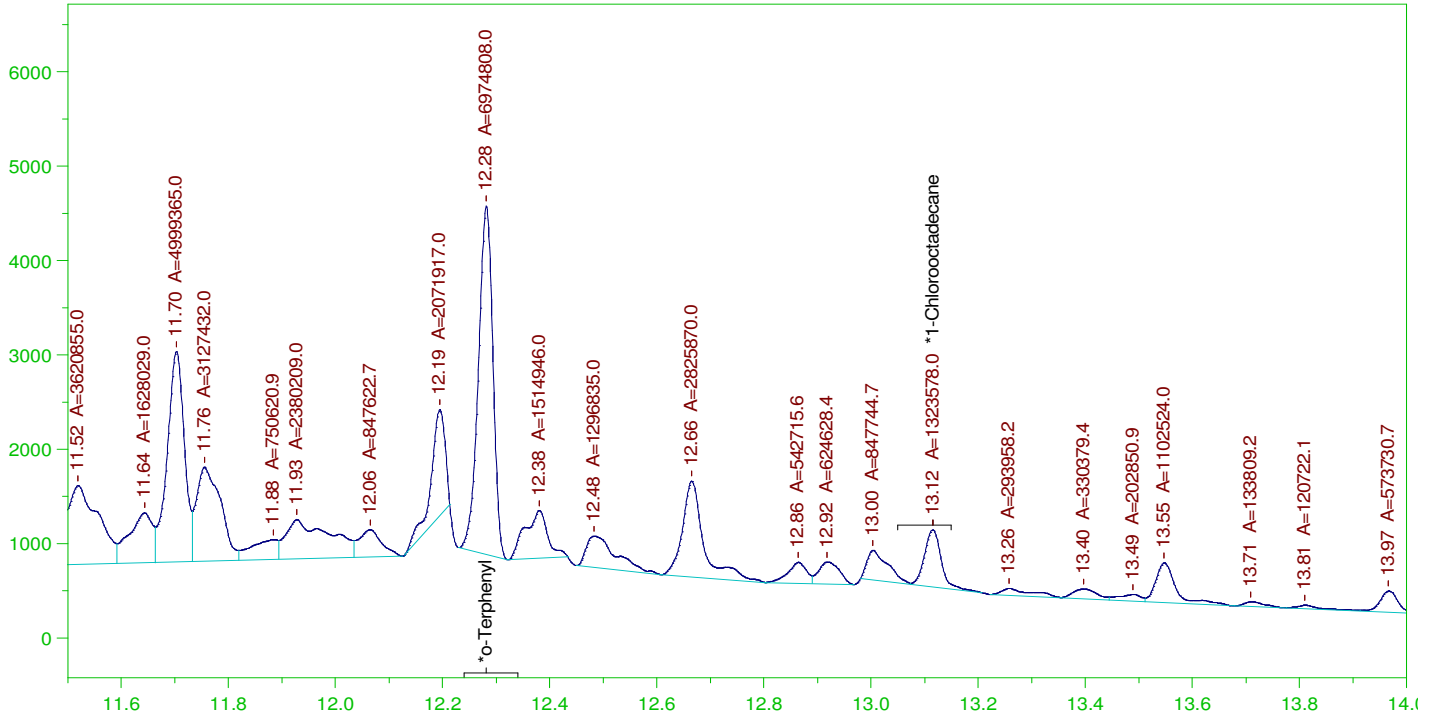
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0064.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15060.01	100.4	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.282	200.	328.144	164.07	85-115
*1-Chlorooctadecane	13.115	200.	156.112	78.06	85-115

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0064.RAW

CCV\_1103HP565r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP565r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0064.RAW  
 Date & Time Acquired: 11/5/2021 9:03:48 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

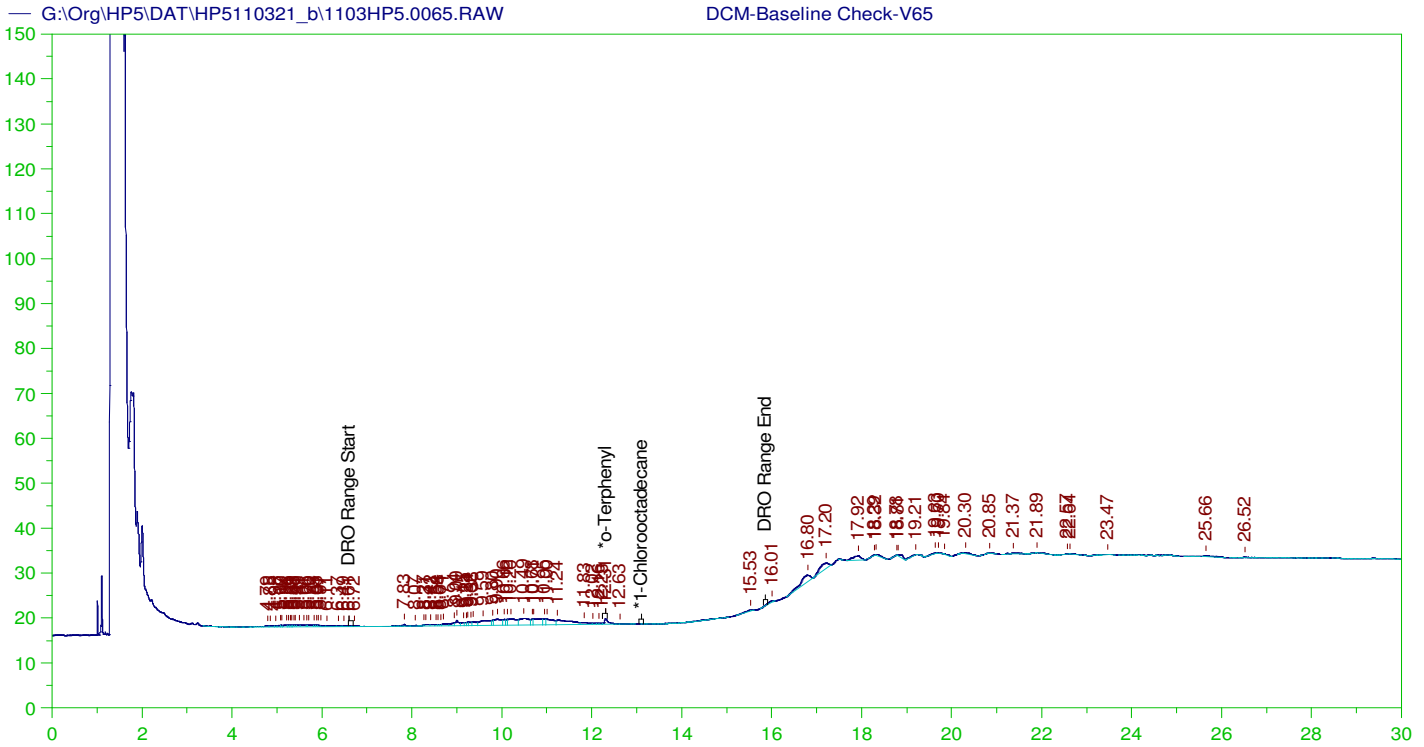
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.282	200.	196.423	98.21
*1-Chlorooctadecane	13.115	200.	37.274	18.64

DRO Area: 2.570388E+08 DRO Amount: 8198.169  
 TEH Area: 2.672153E+08 TEH Amount: 8522.747

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0064.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8522.75	56.82	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.282	200.	196.423	98.21	85-115
*1-Chlorooctadecane	13.115	200.	37.274	18.64	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V65  
 Raw File: G:\Org\HP5\DAT\HP5110321\_b\1103HP5.0065.RAW  
 Date & Time Acquired: 11/5/2021 9:46:44 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	12.306	200.	.226	.11
*1-Chlorooctadecane	29.94	200.	.	.

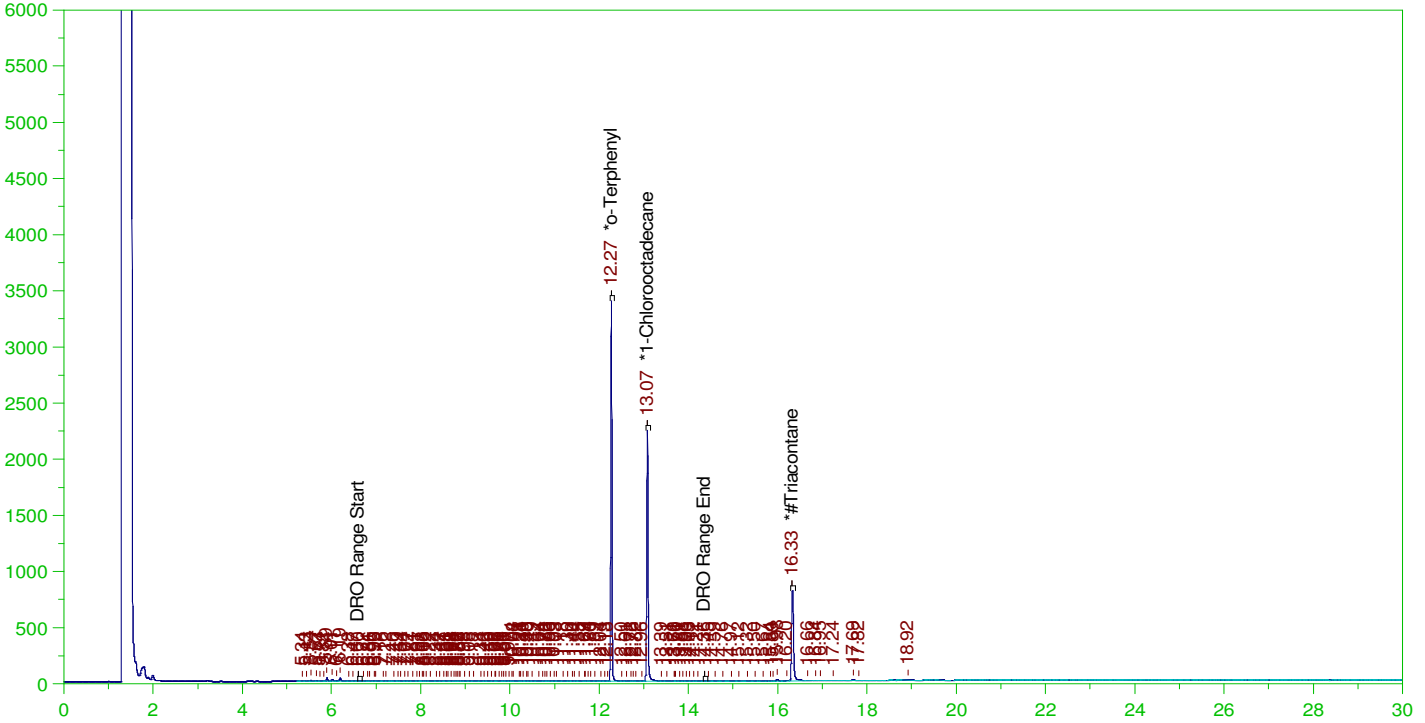
DRO Area:215344.1 DRO Amount: 6.868331  
 TEH Area:340870.6 TEH Amount: 10.87196

ERH1683 (RHMW01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0066.RAW

B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0066.RAW  
 Date & Time Acquired: 11/5/2021 10:30:09 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.271	.194	.177	91.28	-
*1-Chlorooctadecane	13.075	.194	.137	70.72	-
*#Triacontane	16.328	.194	.078	40.3	-

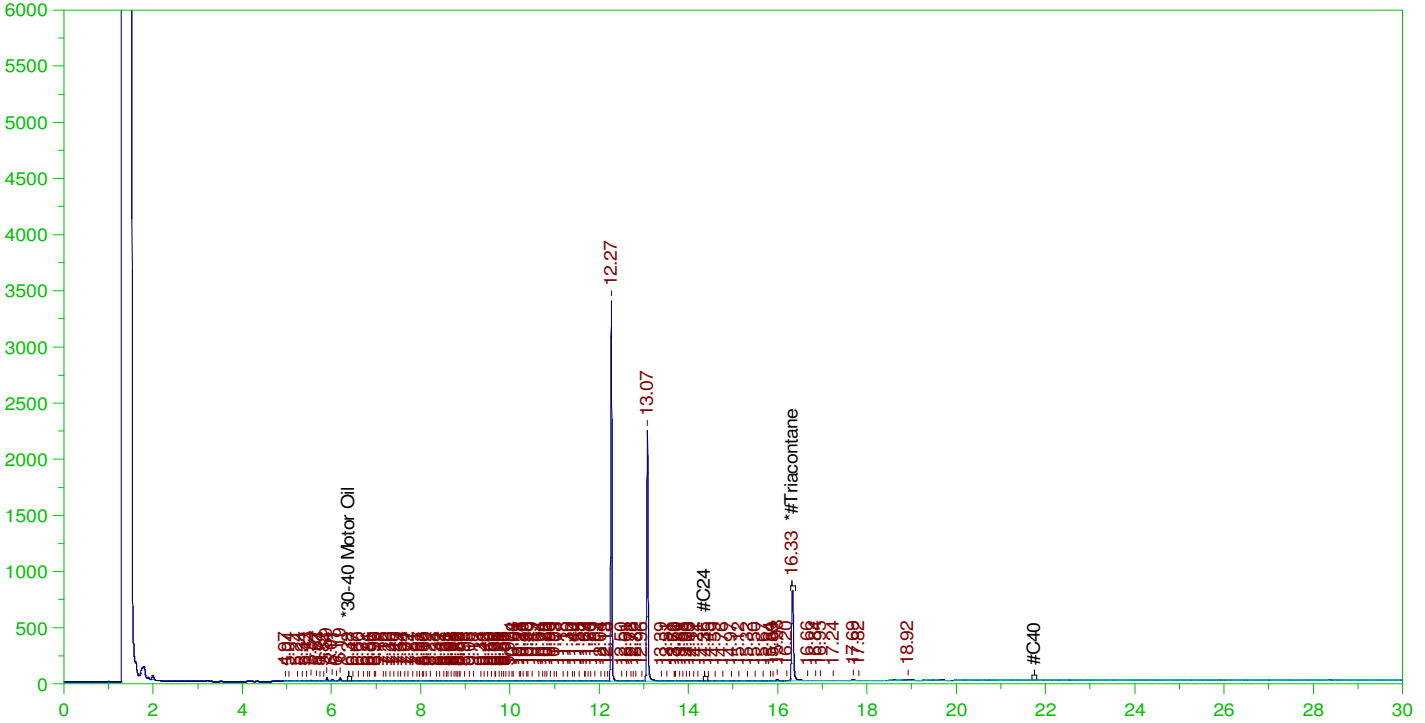
DRO Area: 509033.5 DRO Amount: 1.576258E-02  
 TEH Area: 1009659 TEH Amount: 3.126481E-02

ERH1683 (RHMW01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0066.RAW

B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0066.RAW  
 Date & Time Acquired: 11/5/2021 10:30:09 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.328	.485	.077	15.92

RRO Area:134297.6 RRO AMOUNT: 4.568149E-03

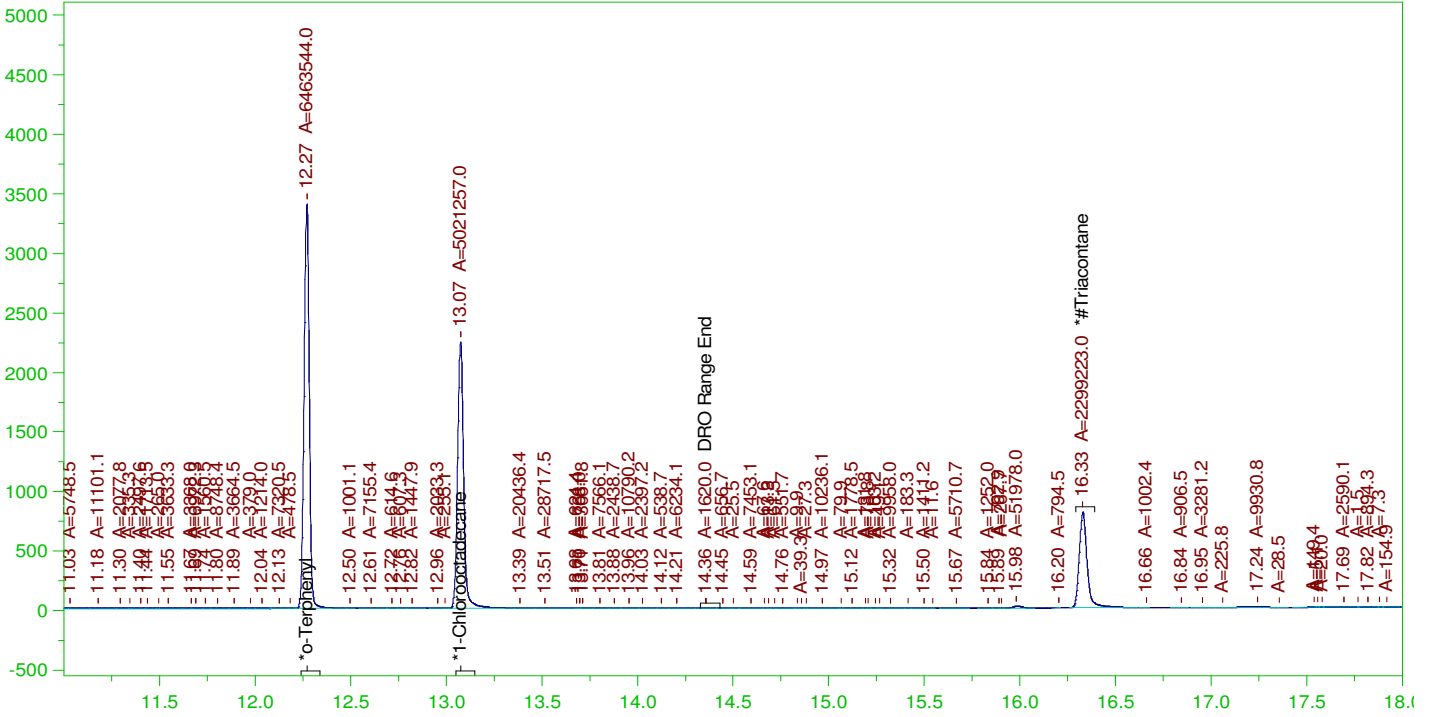


ERH1683 (RHMW01)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0066.RAW

B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110030-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0066.RAW  
 Date & Time Acquired: 11/5/2021 10:30:09 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.271	.194	.177	91.01	-
*1-Chlorooctadecane	13.075	.194	.137	70.7	-
*#Triacontane	16.328	.194	.077	39.74	-

DRO Area: 558587.1 DRO Amount: 1.729705E-02  
 TEH Area: 1133926 TEH Amount: 3.511282E-02

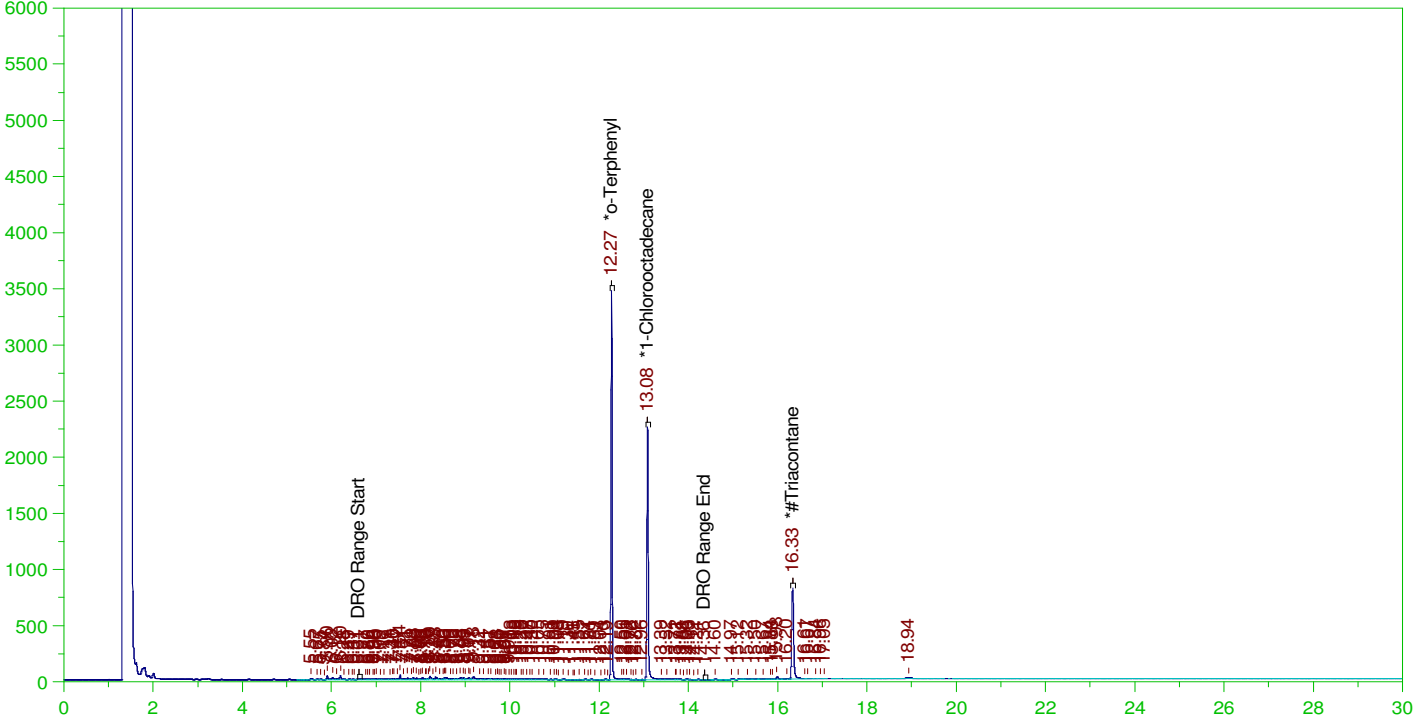


ERH1685 (RHMW01R)

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0067.RAW

Batch ID: 160878

B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0067.RAW  
 Date & Time Acquired: 11/5/2021 11:12:59 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.275	.194	.179	92.03	-
*1-Chlorooctadecane	13.079	.194	.139	71.82	-
*#Triacontane	16.331	.194	.079	40.6	-

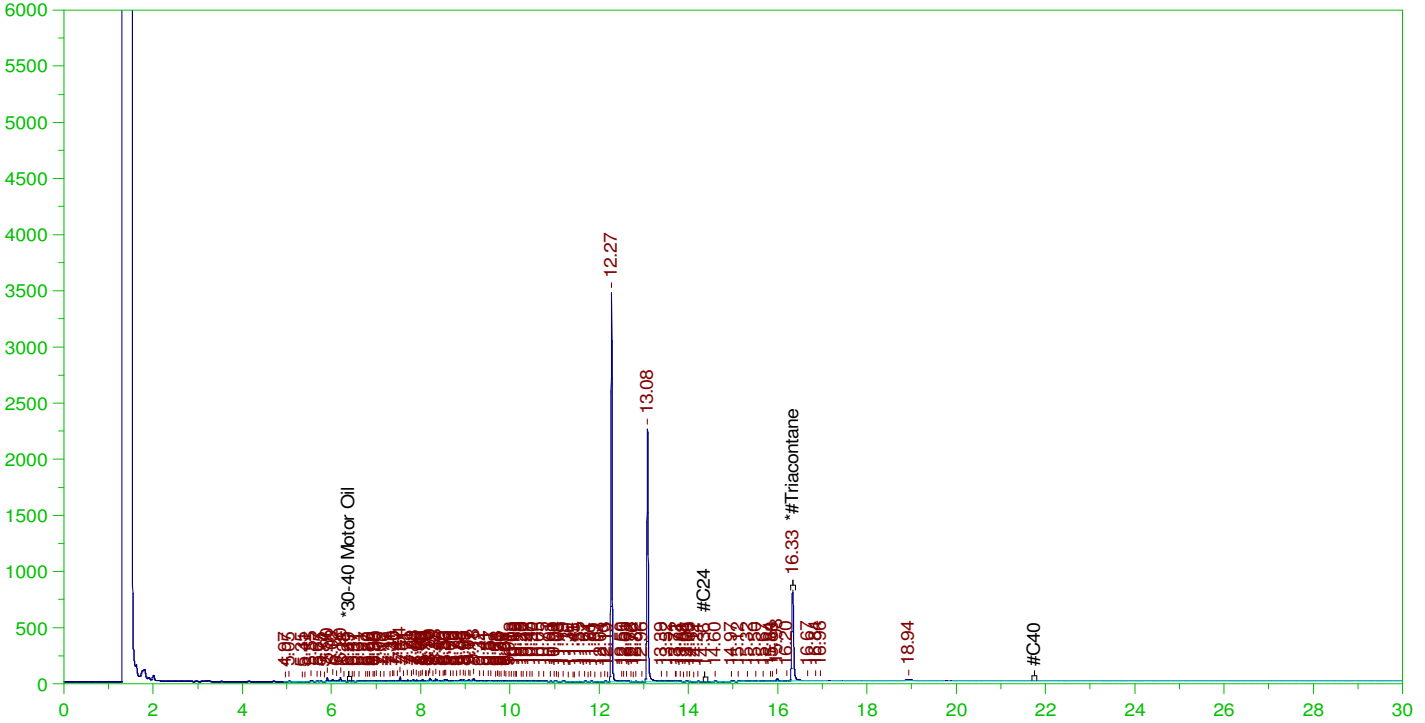
DRO Area: 1769159                      DRO Amount: 5.478325E-02  
 TEH Area: 2249456                     TEH Amount: 6.965601E-02

ERH1685 (RHMW01R)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0067.RAW

B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0067.RAW  
 Date & Time Acquired: 11/5/2021 11:12:59 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.331	.485	.078	16.04

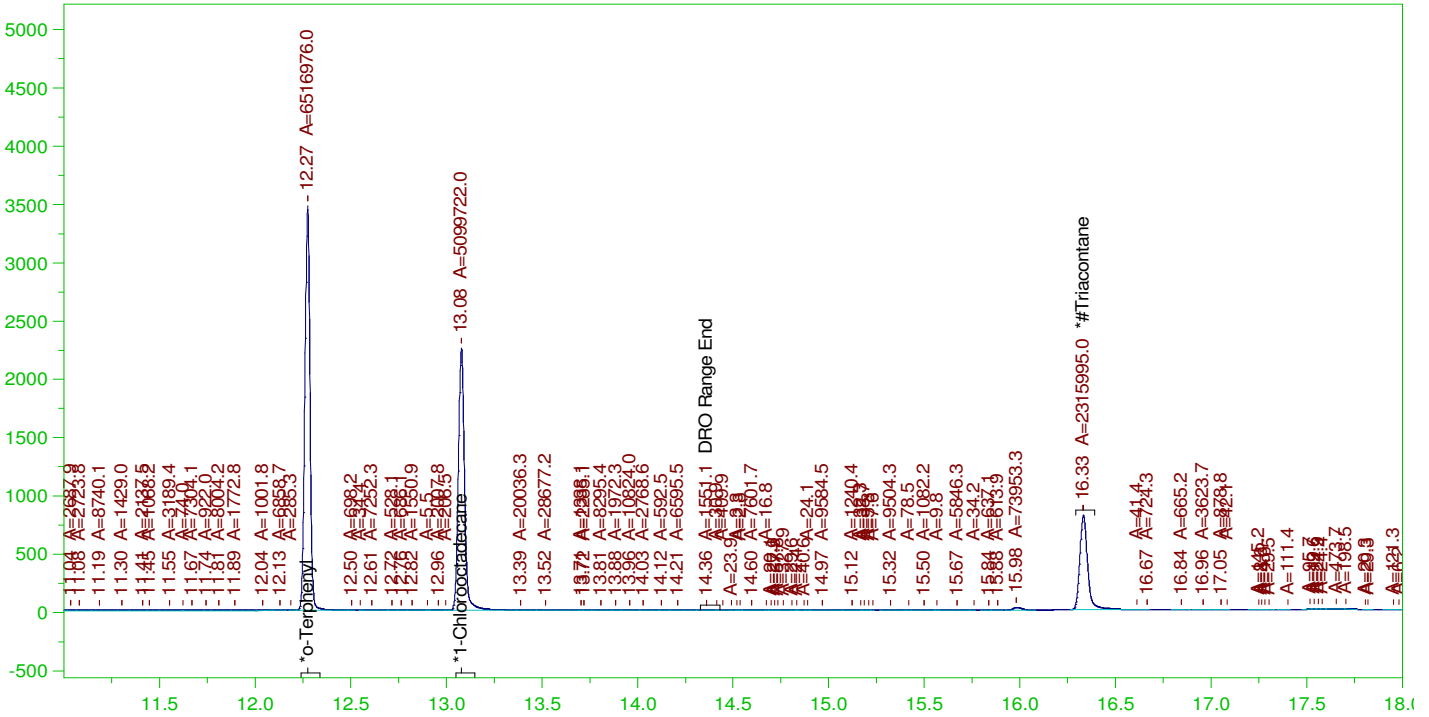
RRO Area:149680.1 RRO AMOUNT: 5.091387E-03

ERH1685 (RHMW01R)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0067.RAW

B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110030-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0067.RAW  
 Date & Time Acquired: 11/5/2021 11:12:59 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.275	.194	.178	91.76	-
*1-Chlorooctadecane	13.079	.194	.139	71.81	-
*Triacontane	16.331	.194	.078	40.03	-

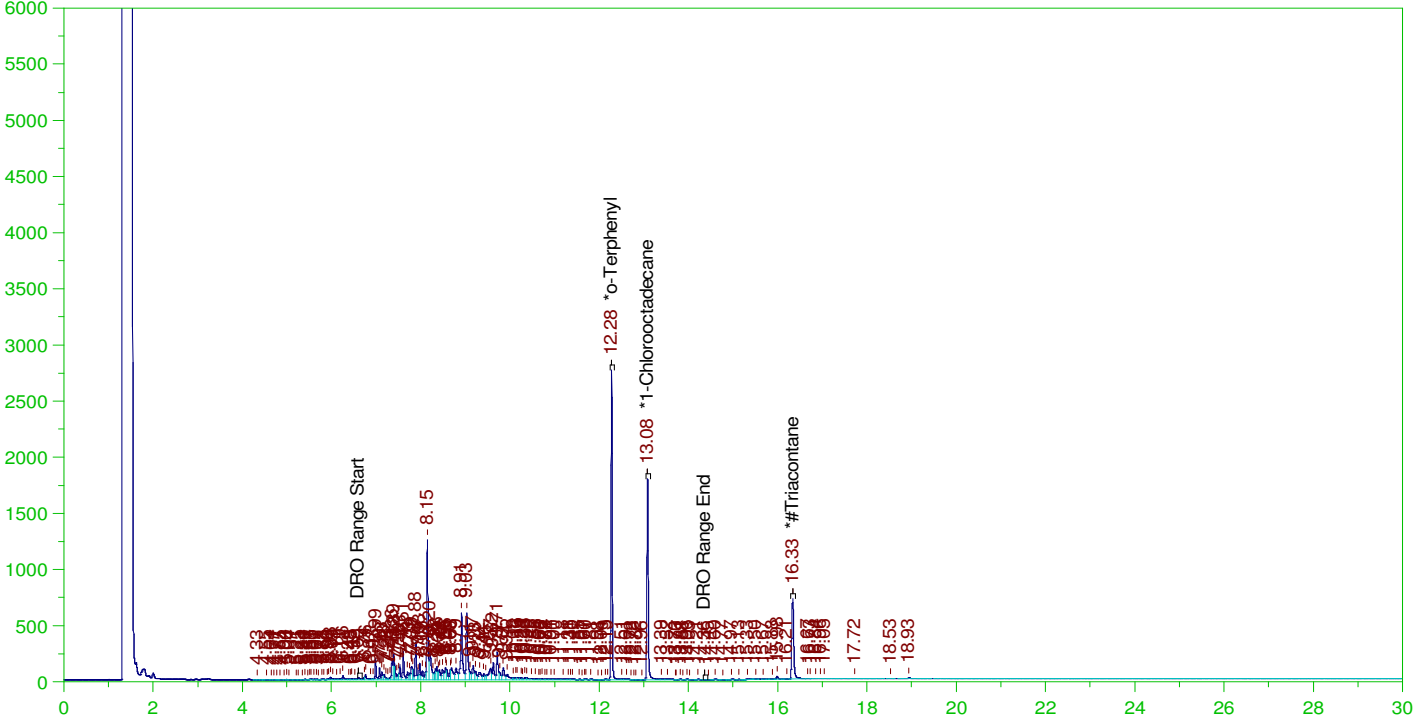
DRO Area:1815543 DRO Amount: 5.621958E-02  
 TEH Area:2354911 TEH Amount: 7.292149E-02

ERH1687 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0068.RAW

B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0068.RAW  
 Date & Time Acquired: 11/5/2021 11:55:35 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-68-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.276	.19	.141	73.85	-
*1-Chlorooctadecane	13.079	.19	.109	57.06	-
*#Triacontane	16.332	.19	.069	36.2	-

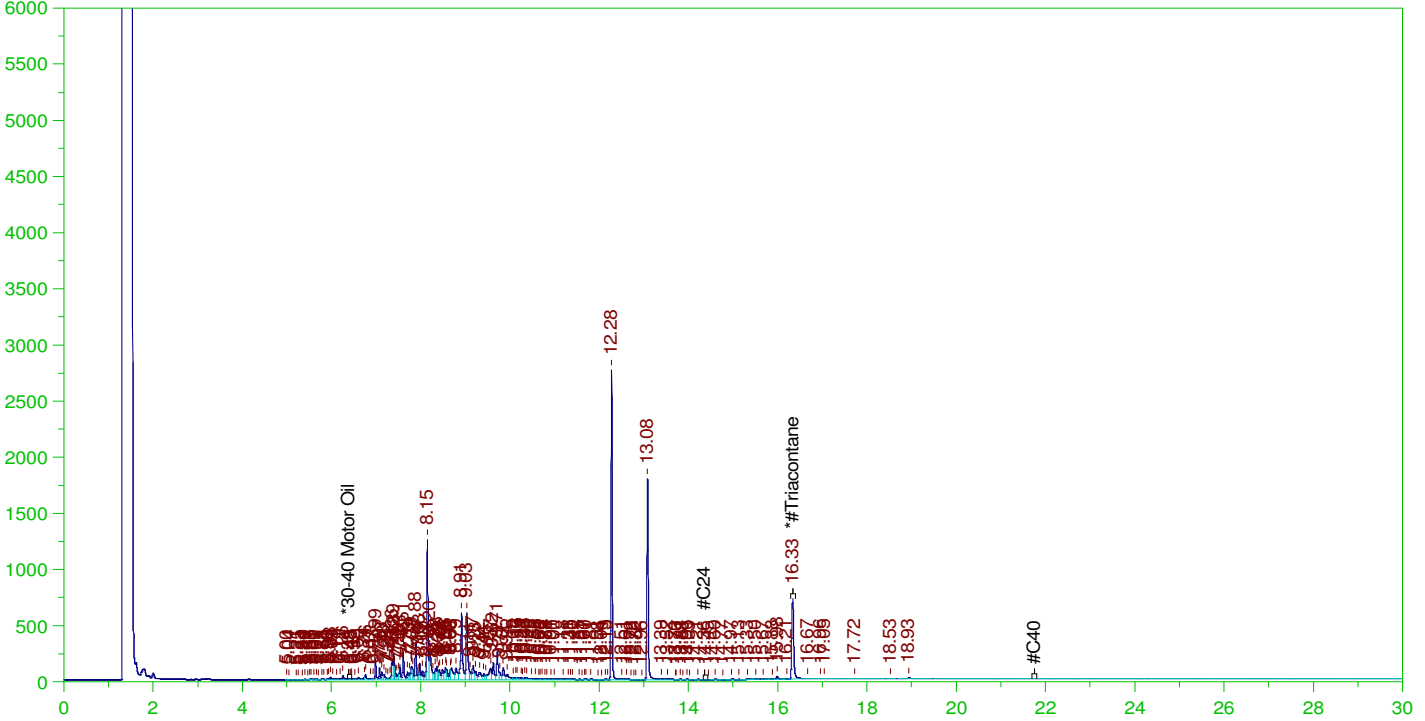
DRO Area: 1.77188E+07 DRO Amount: 0.5382241  
 TEH Area: 1.827702E+07 TEH Amount: 0.5551806

ERH1687 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0068.RAW

B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0068.RAW  
 Date & Time Acquired: 11/5/2021 11:55:35 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-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: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.332	.476	.069	14.43

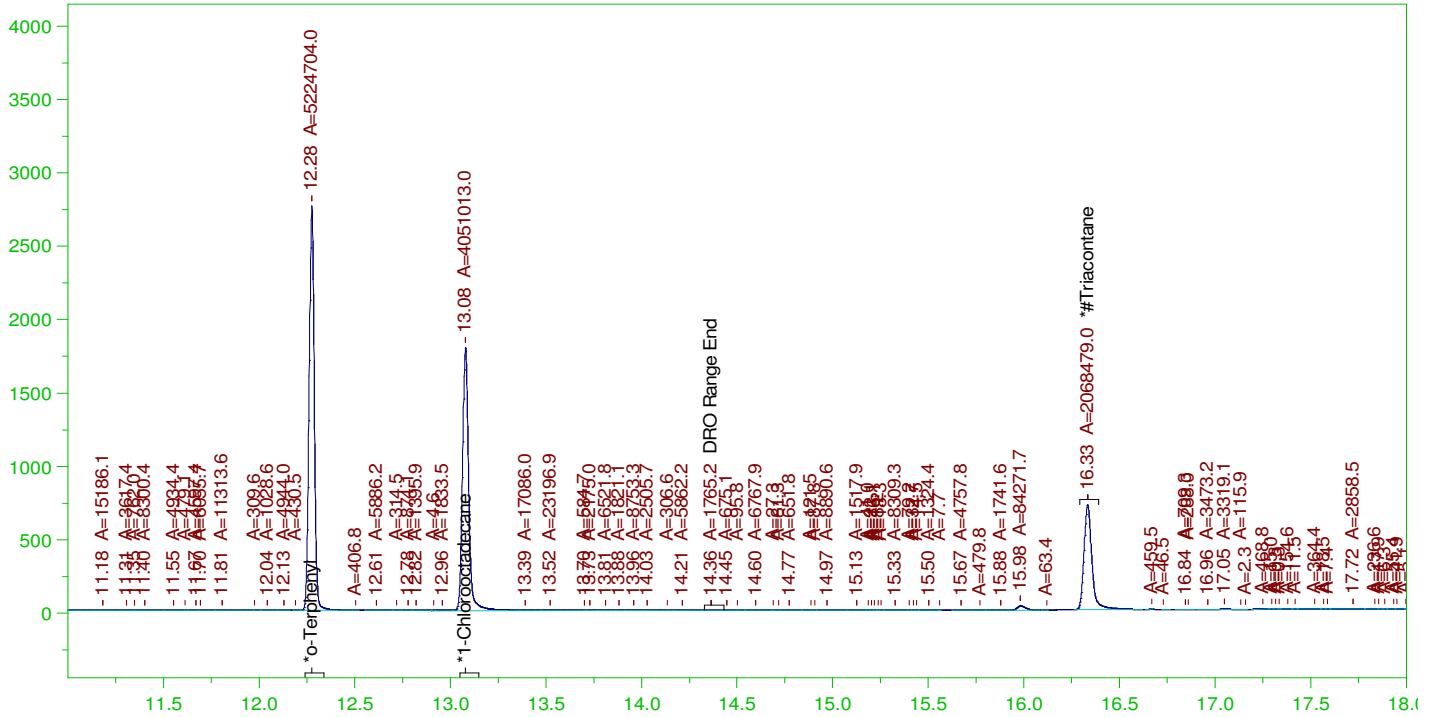
RRO Area:162368.6 RRO AMOUNT: 5.41779E-03

ERH1687 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0068.RAW

B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110062-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0068.RAW  
 Date & Time Acquired: 11/5/2021 11:55:35 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.276	.19	.14	73.57	-
*1-Chlorooctadecane	13.079	.19	.109	57.04	-
*#Triacontane	16.332	.19	.068	35.75	-

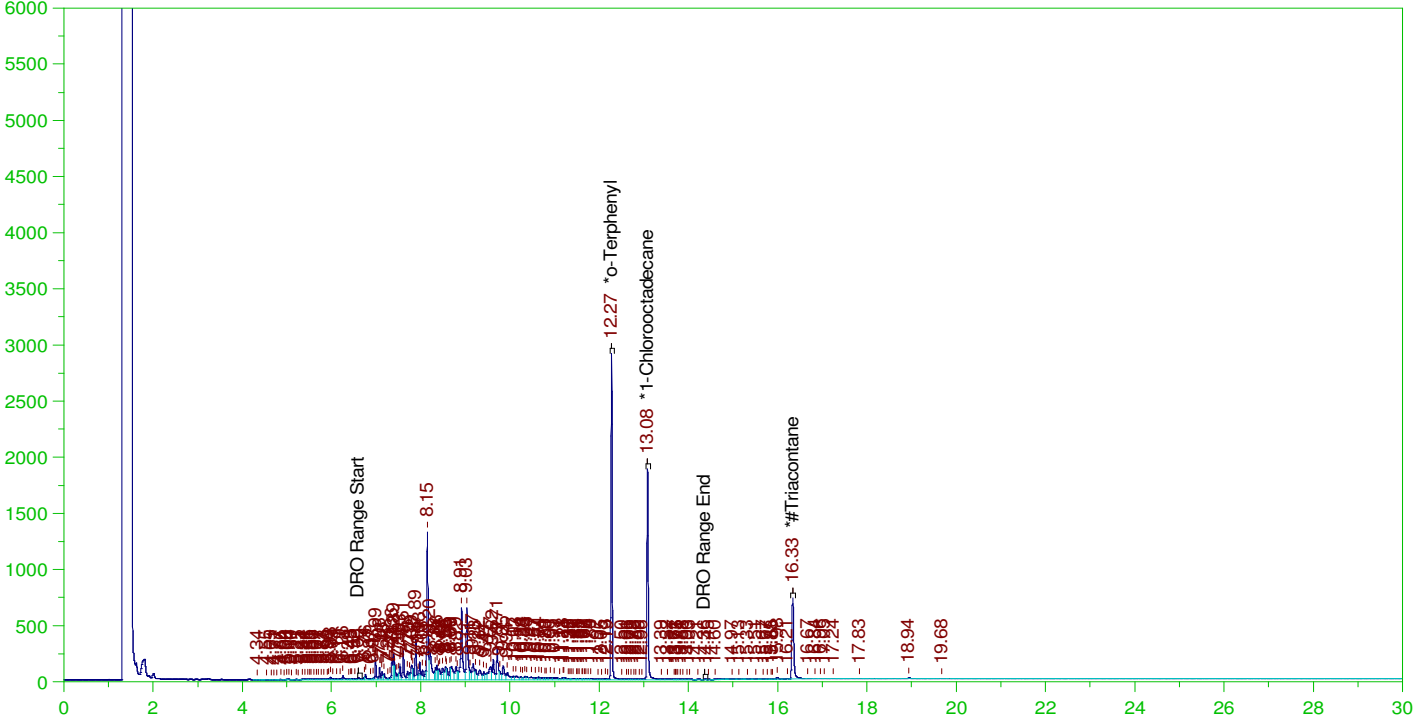
DRO Area: 1.765064E+07 DRO Amount: 0.5361538  
 TEH Area: 1.820839E+07 TEH Amount: 0.5530959

ERH1688 (RHMW02)

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0069.RAW

Batch ID: 160878

B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0069.RAW  
 Date & Time Acquired: 11/5/2021 12:38:16 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-68-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.275	.189	.149	78.77	-
*1-Chlorooctadecane	13.078	.189	.112	59.27	-
*#Triacontane	16.333	.189	.07	36.93	-

DRO Area: 2.075804E+07 DRO Amount: 0.6245953  
 TEH Area: 2.130894E+07 TEH Amount: 0.6411715



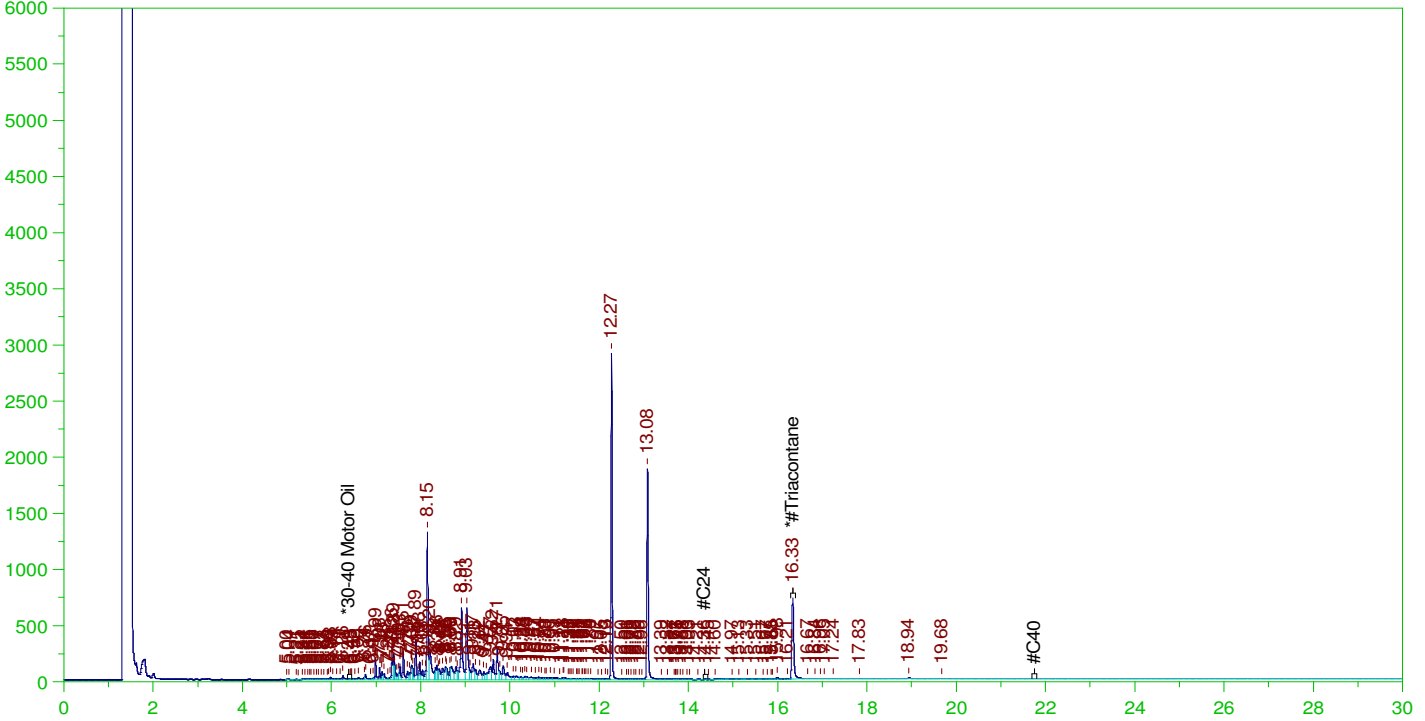


ERH1688 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0069.RAW

B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0069.RAW  
 Date & Time Acquired: 11/5/2021 12:38:16 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-SAMP.CAL  
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.333	.472	.069	14.55

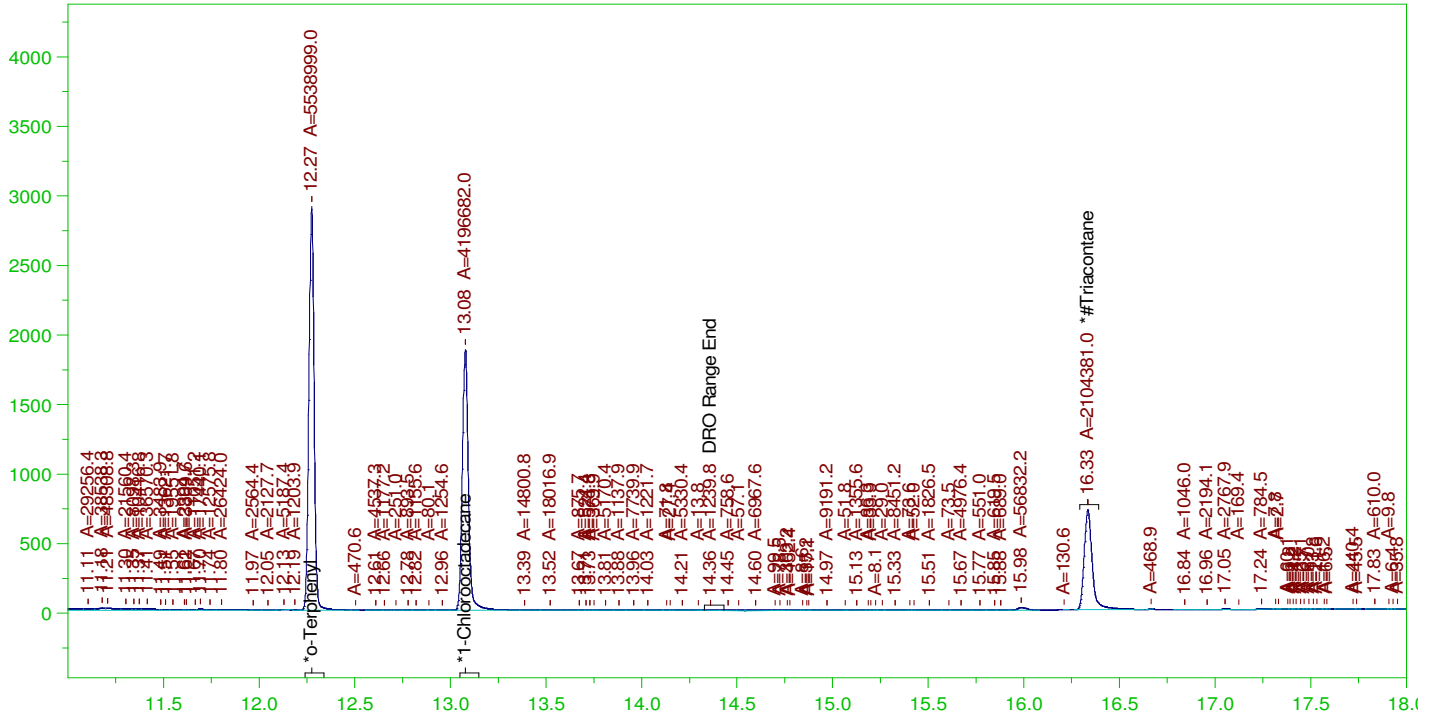
RRO Area:123208.5 RRO AMOUNT: 4.07234E-03

ERH1688 (RHMW02)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0069.RAW

B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110062-002B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0069.RAW  
 Date & Time Acquired: 11/5/2021 12:38:16 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

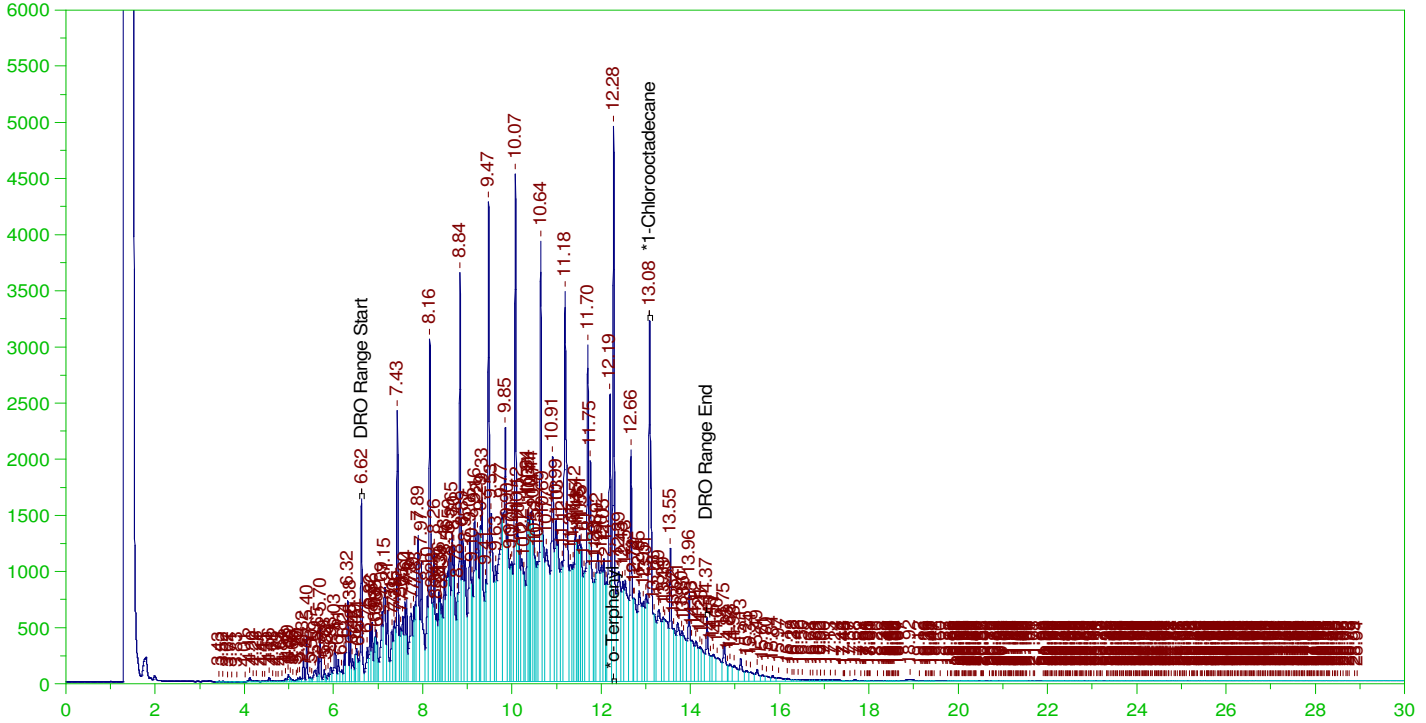
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.275	.189	.147	77.99	-
*1-Chlorooctadecane	13.078	.189	.111	59.09	-
*#Triacontane	16.333	.189	.069	36.37	-

DRO Area: 1.988429E+07 DRO Amount: 0.5983048  
 TEH Area: 2.036401E+07 TEH Amount: 0.6127391

Batch ID: 160878

B21110079-001BMSD ;1103HP5 , SGT

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0070.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

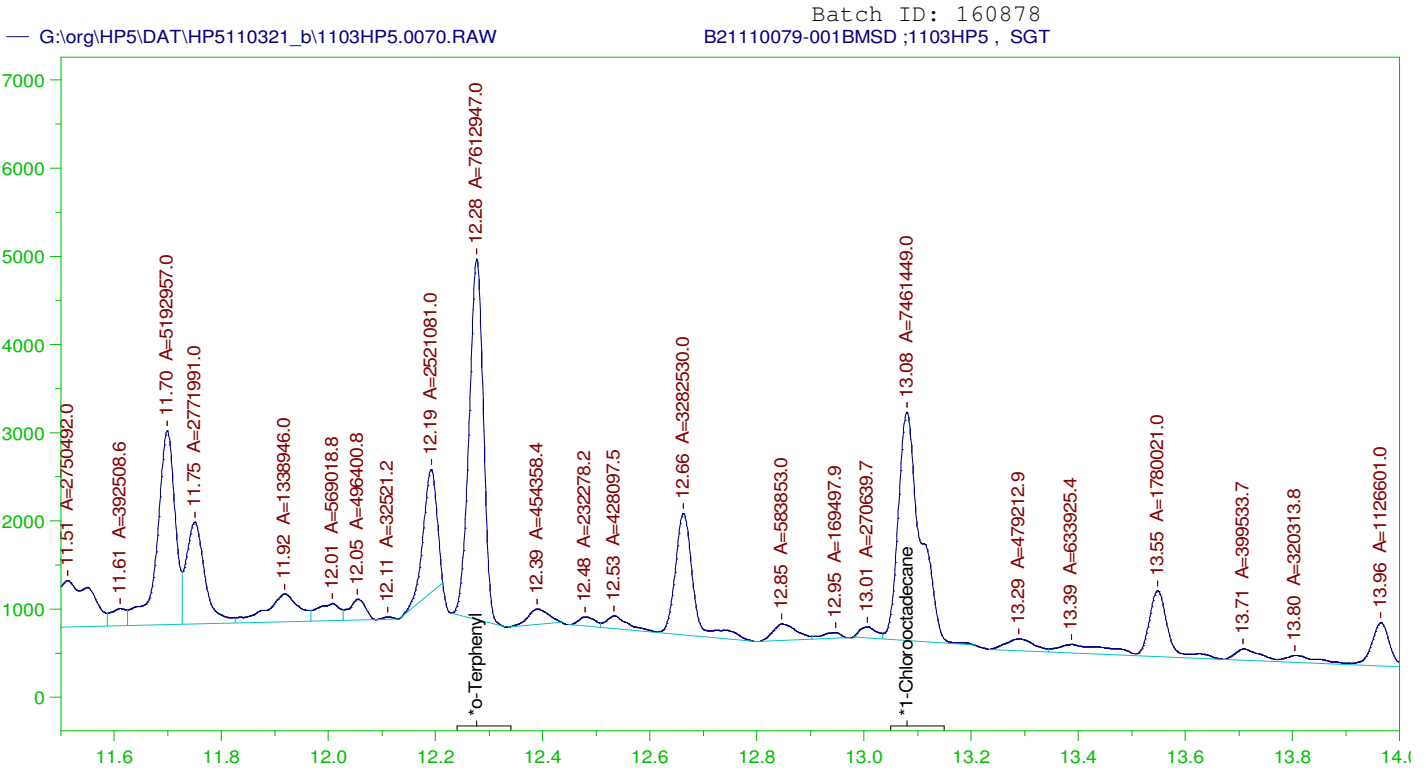
Sample Name: B21110079-001BMSD ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0070.RAW  
 Date & Time Acquired: 11/5/2021 1:21:10 PM  
 Method File: G:\Org\HP5\Methods\D3\_8015-70-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.277	.196	.358	182.51 -
*1-Chlorooctadecane	13.08	.196	.347	177.12 -

DRO Area: 4.187537E+08 DRO Amount: 13.09413  
 TEH Area: 4.447868E+08 TEH Amount: 13.90817



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

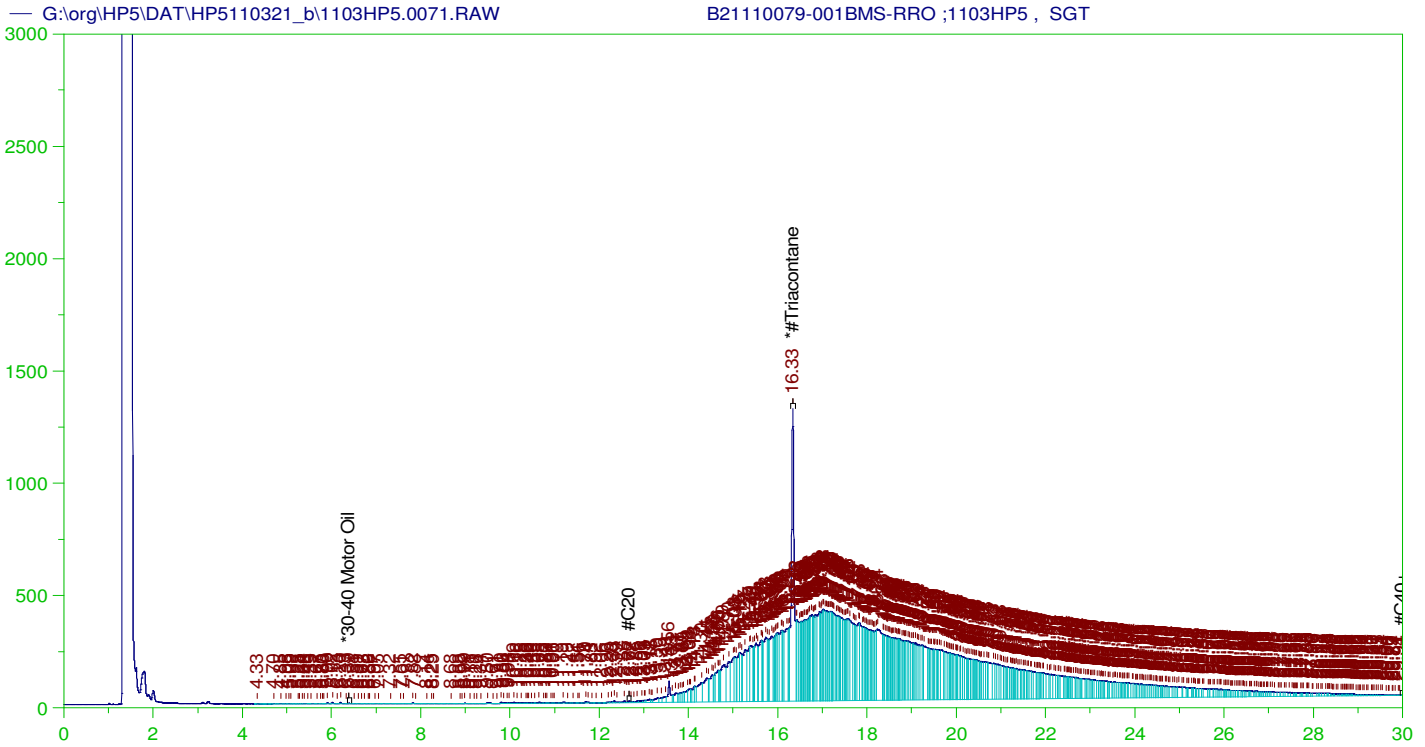
Sample Name: B21110079-001BMSD ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0070.RAW  
 Date & Time Acquired: 11/5/2021 1:21:10 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.277	.196	.21	107.2	-
*1-Chlorooctadecane	13.08	.196	.206	105.06	-

DRO Area: 2.015365E+08 DRO Amount: 6.301903  
 TEH Area: 2.1304E+08 TEH Amount: 6.661609



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110079-001BMS-RRO ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0071.RAW  
 Date & Time Acquired: 11/5/2021 2:04:00 PM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.CAL  
 Sample Weight: 1050 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: 12.62 to 30.05

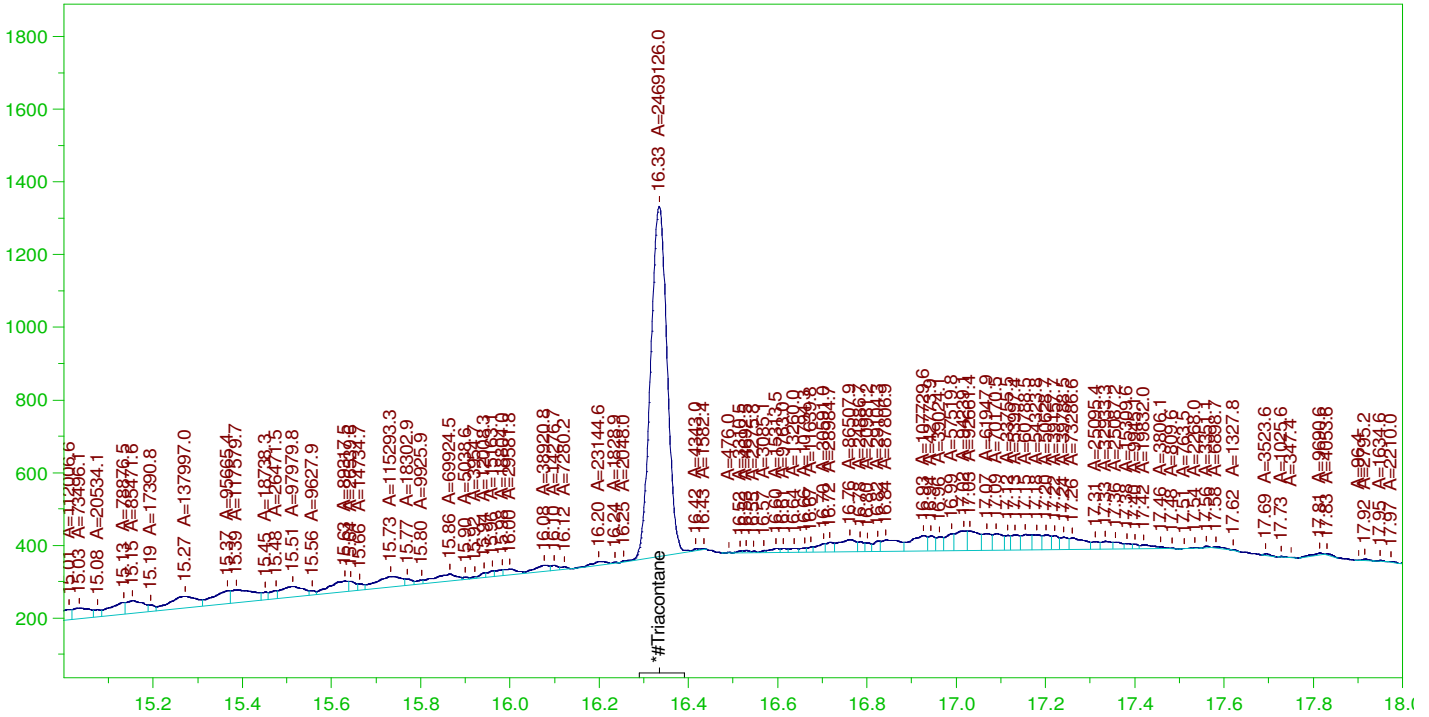
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.334	.476	.179	37.56	-

RRO TEH (Oil Range) Area:1.313894E+08 RRO TEH (Oil Range) AMOUNT: 4.3841

AMN 11/16/2021

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0071.RAW

B21110079-001BMS-RRO ;1103HP5 , SGT



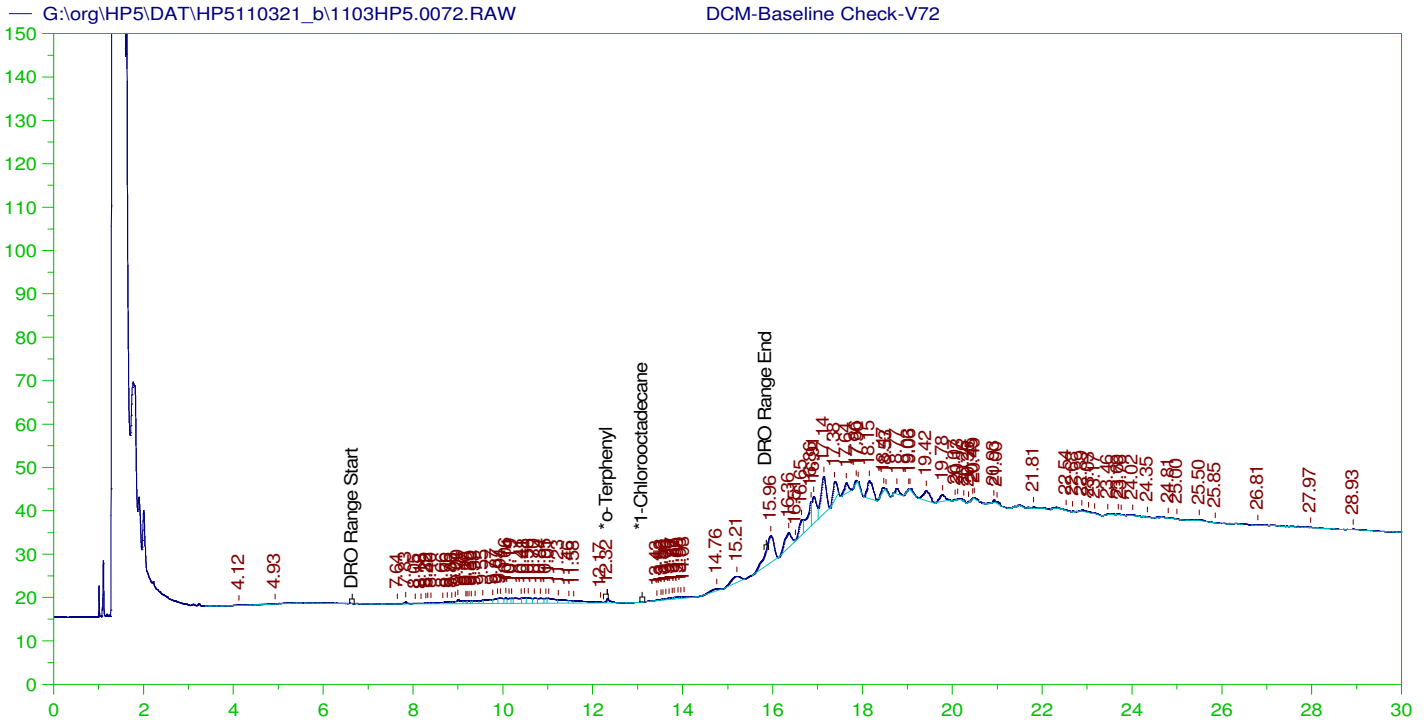
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110079-001BMS-RRO ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0071.RAW  
 Date & Time Acquired: 11/5/2021 2:04:00 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.334	.476	.081	17.07

RRO Area:4086396 RRO AMOUNT: 0.1363517



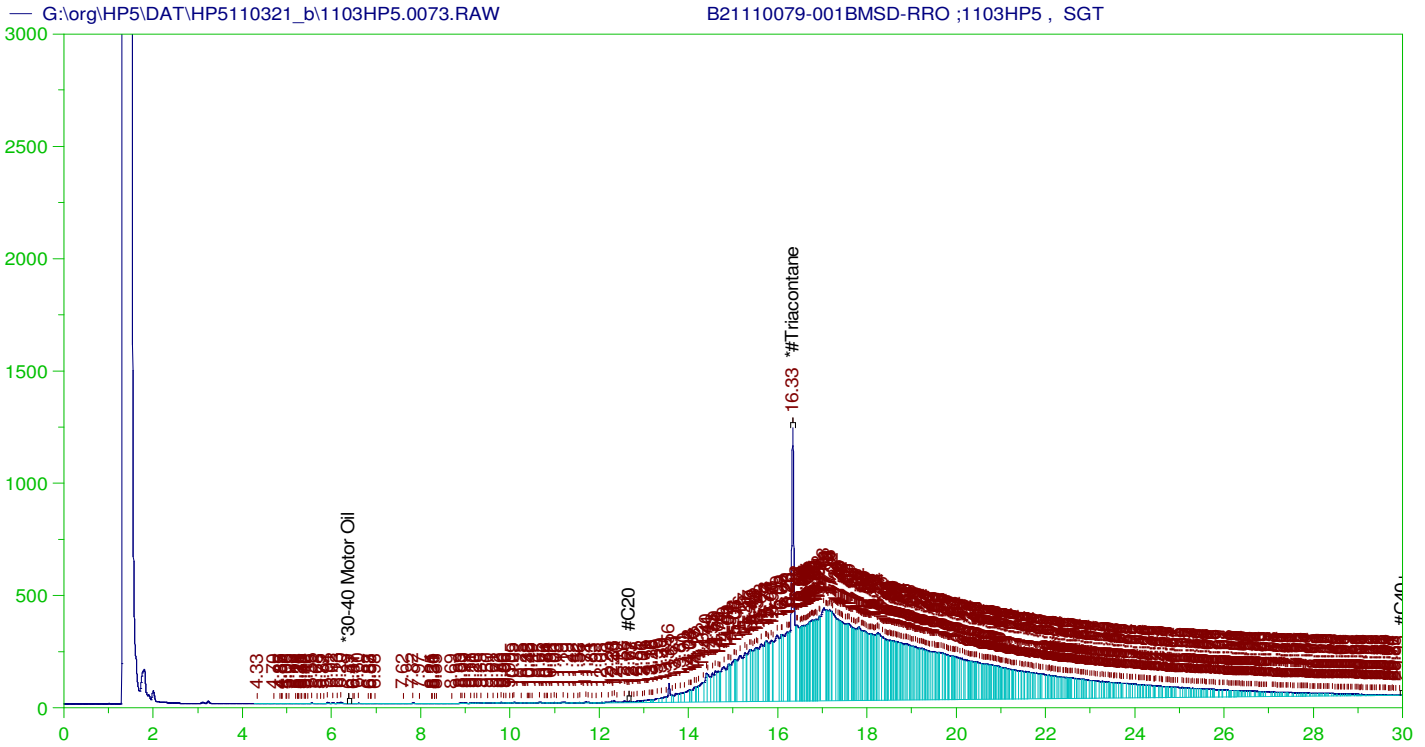
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V72  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0072.RAW  
 Date & Time Acquired: 11/5/2021 2:46:48 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	12.319	200.	.161	.08
*1-Chlorooctadecane	29.914	200.	.	.

DRO Area: 220049.9      DRO Amount: 7.018421  
 TEH Area: 720011.3      TEH Amount: 22.96453



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110079-001BMSD-RRO ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0073.RAW  
 Date & Time Acquired: 11/5/2021 3:29:27 PM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.CAL  
 Sample Weight: 1060 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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.333	.472	.152	32.14	-

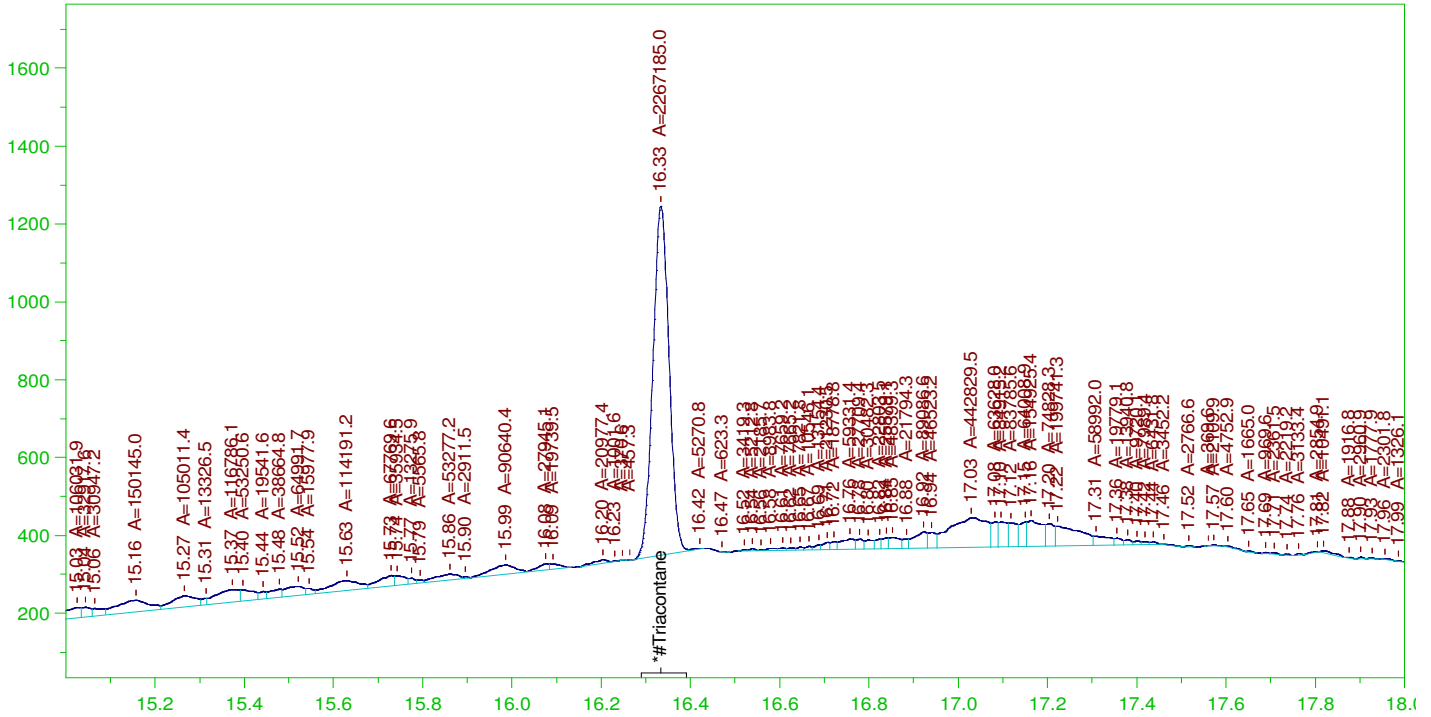
~~RRO~~ TEH (Oil Range) Area:1.252407E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 4.139509

AMN 11/16/2021



G:\org\HP5\DAT\HP5110321\_b\1103HP5.0073.RAW

B21110079-001BMSD-RRO ;1103HP5 , SGT



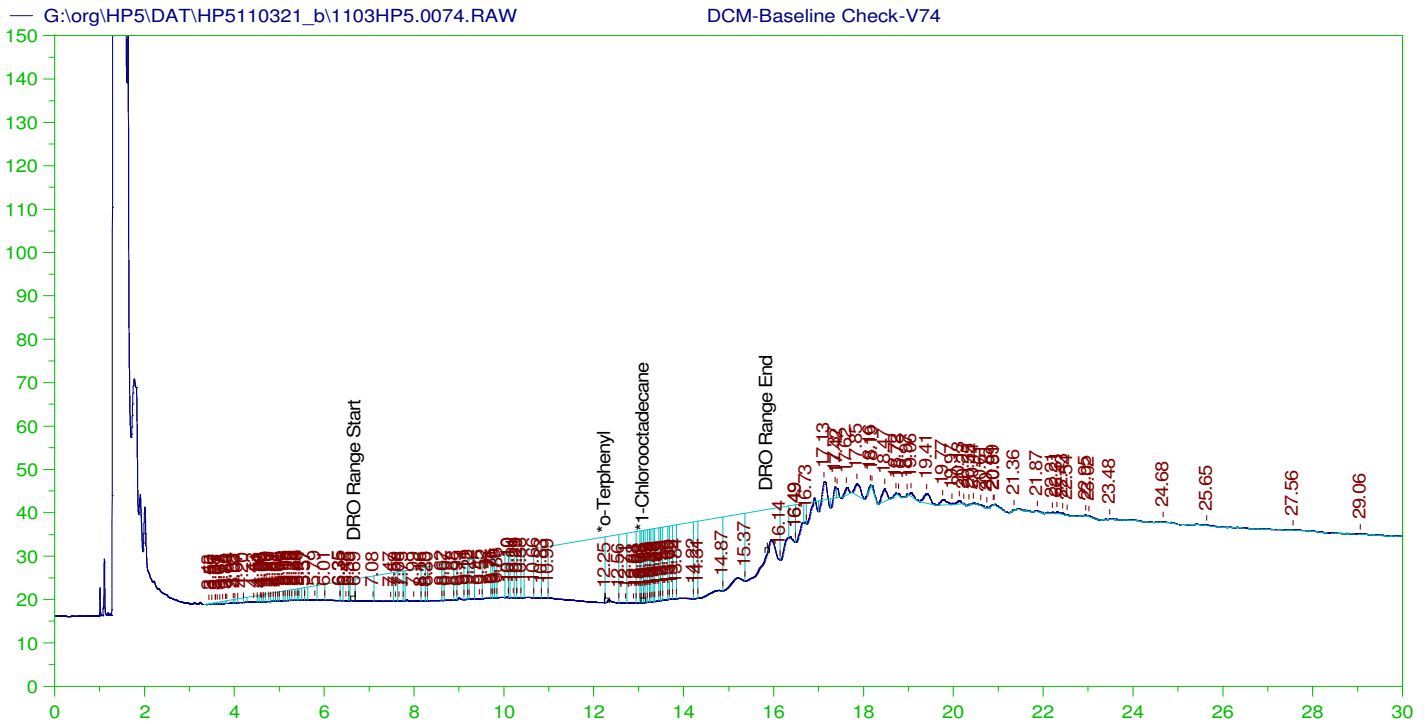
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110079-001BMSD-RRO ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0073.RAW  
 Date & Time Acquired: 11/5/2021 3:29:27 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.CAL  
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.333	.472	.074	15.67

RRO Area:4239055 RRO AMOUNT: 0.1401111



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

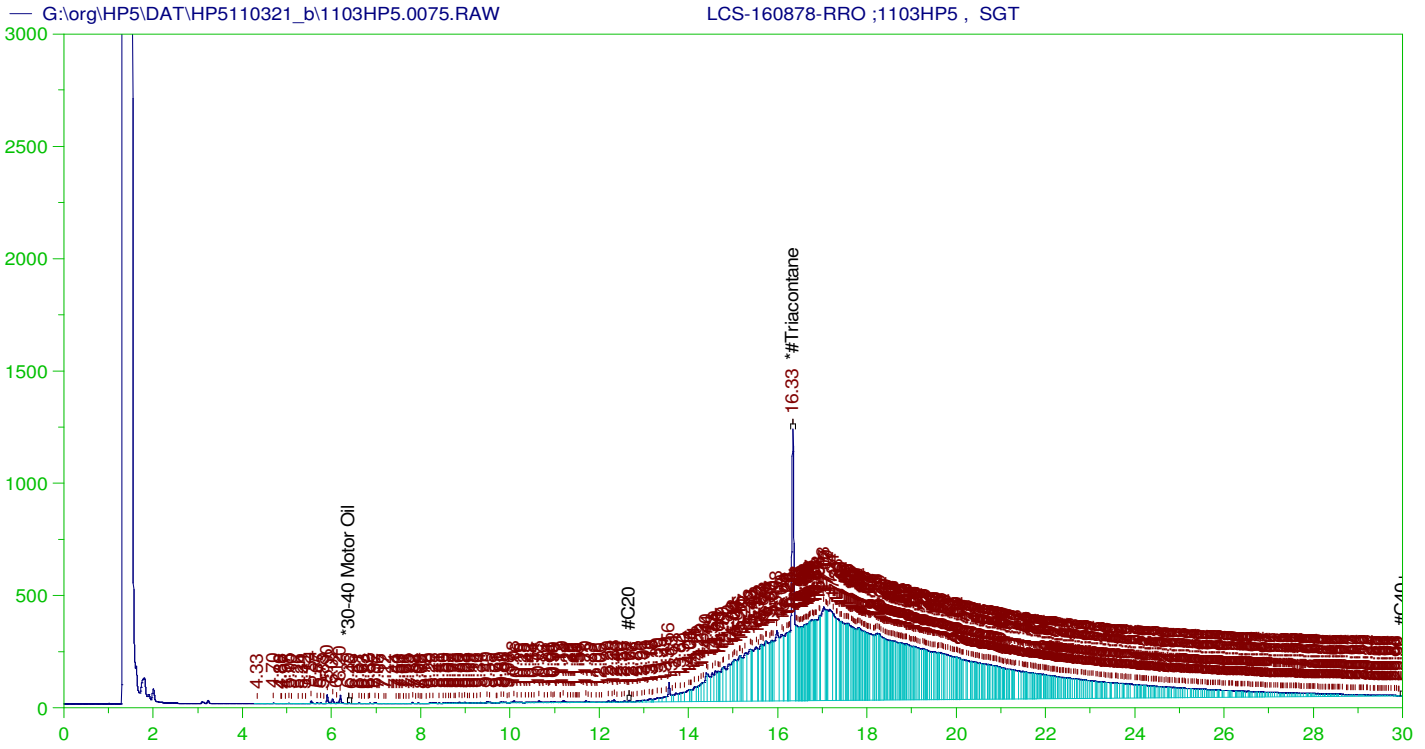
Sample Name: DCM-Baseline Check-V74  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0074.RAW  
 Date & Time Acquired: 11/5/2021 4:12:20 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-IA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	12.249	200.	28.953	14.48	-
*1-Chlorooctadecane	13.107	200.	1.008	.5	-

DRO Area: 5840158 DRO Amount: 186.27  
 TEH Area: 6674053 TEH Amount: 212.8668



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: LCS-160878-RRO ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0075.RAW  
 Date & Time Acquired: 11/5/2021 4:55:02 PM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

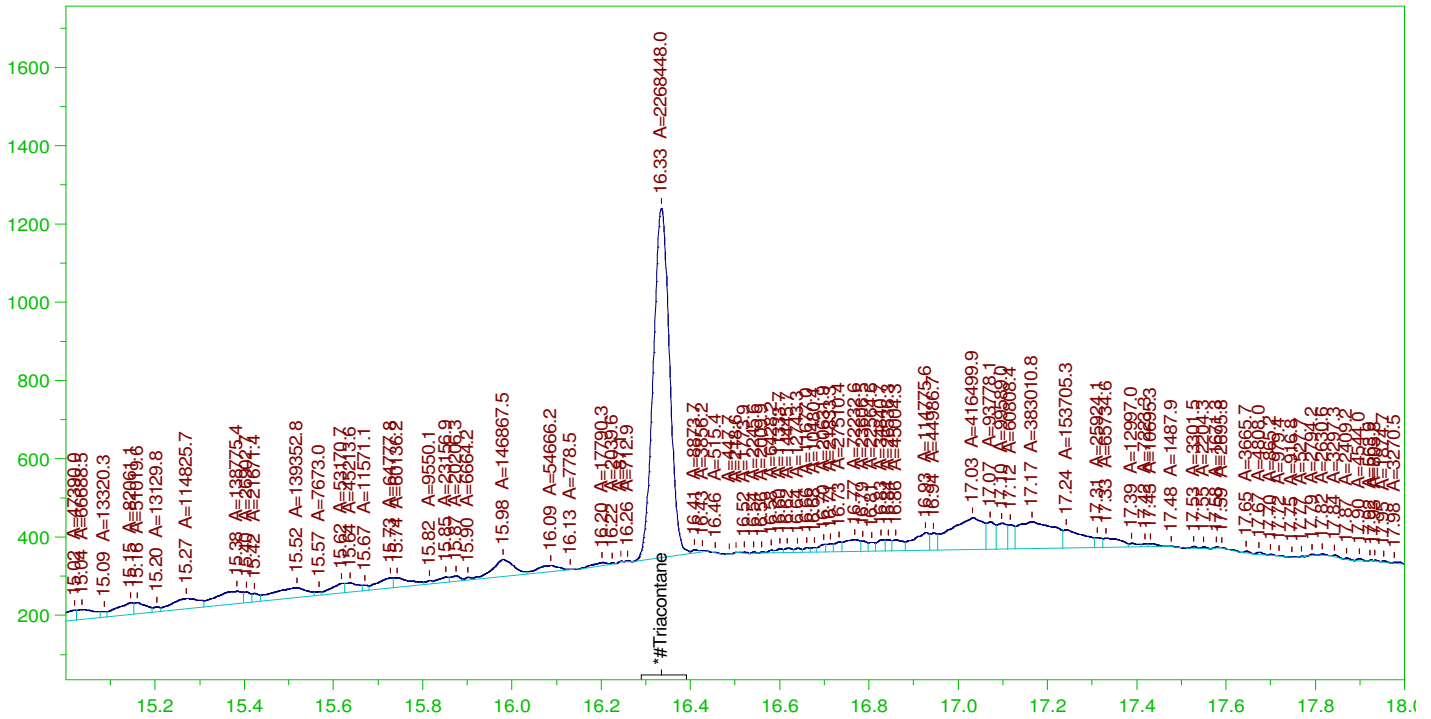
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.334	.5	.164	32.73	-

RRO TEH (Oil Range) Area:1.246809E+08 RRO TEH (Oil Range)AMOUNT: 4.368269

AMN 11/16/2021

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0075.RAW

LCS-160878-RRO ;1103HP5 , SGT



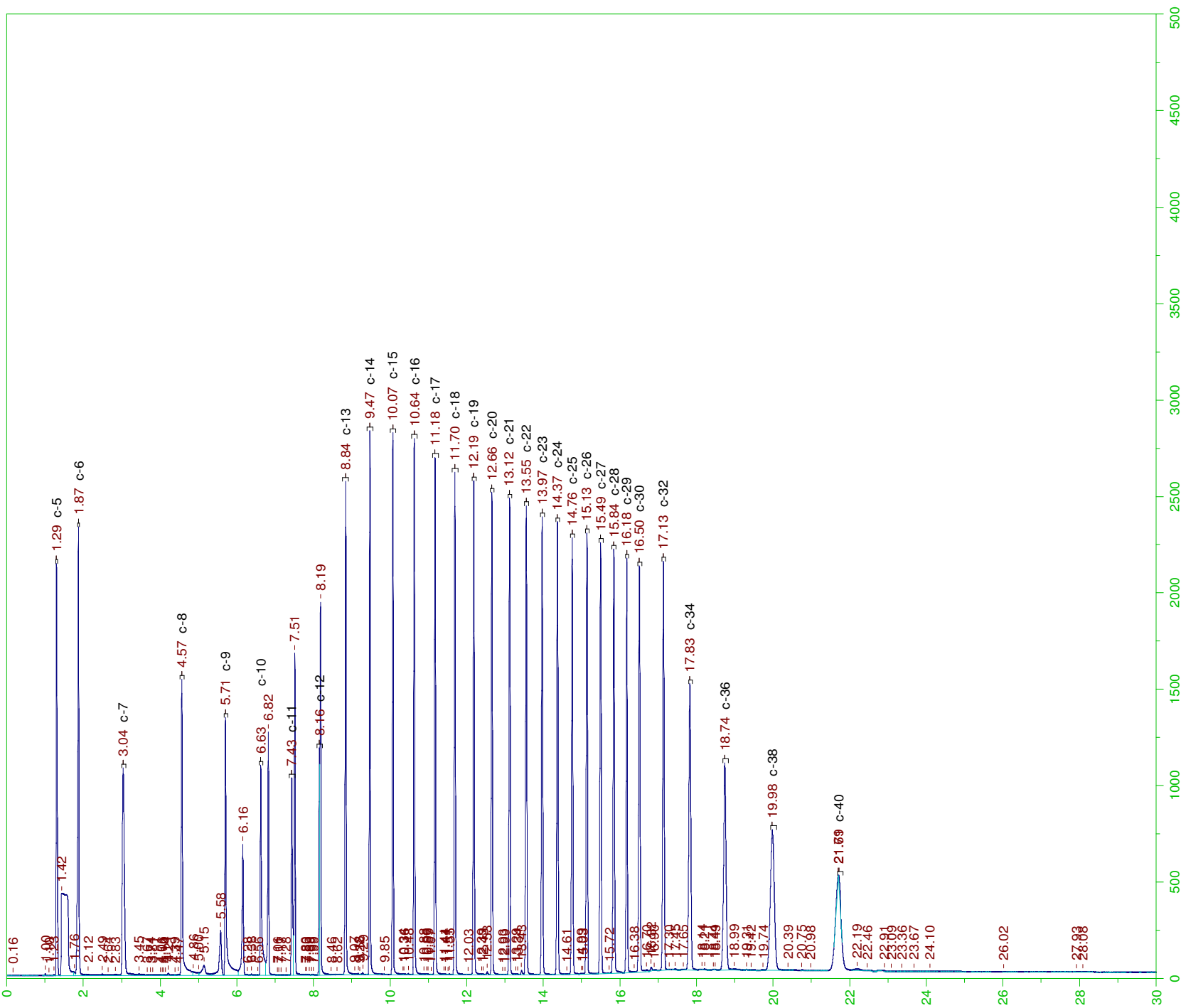
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

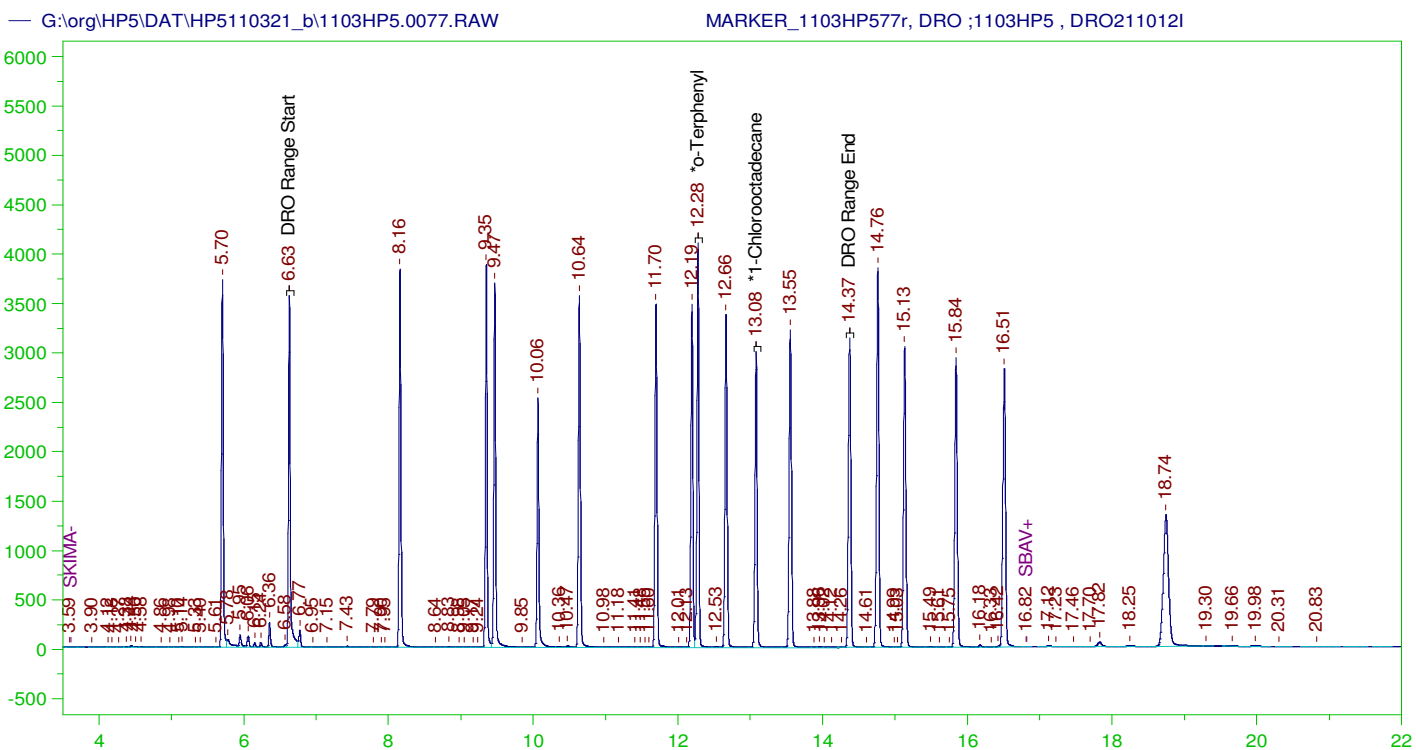
Sample Name: LCS-160878-RRO ;1103HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0075.RAW  
 Date & Time Acquired: 11/5/2021 4:55:02 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.334	.5	.078	15.68

RRO Area:4447338 RRO AMOUNT: 0.1558151





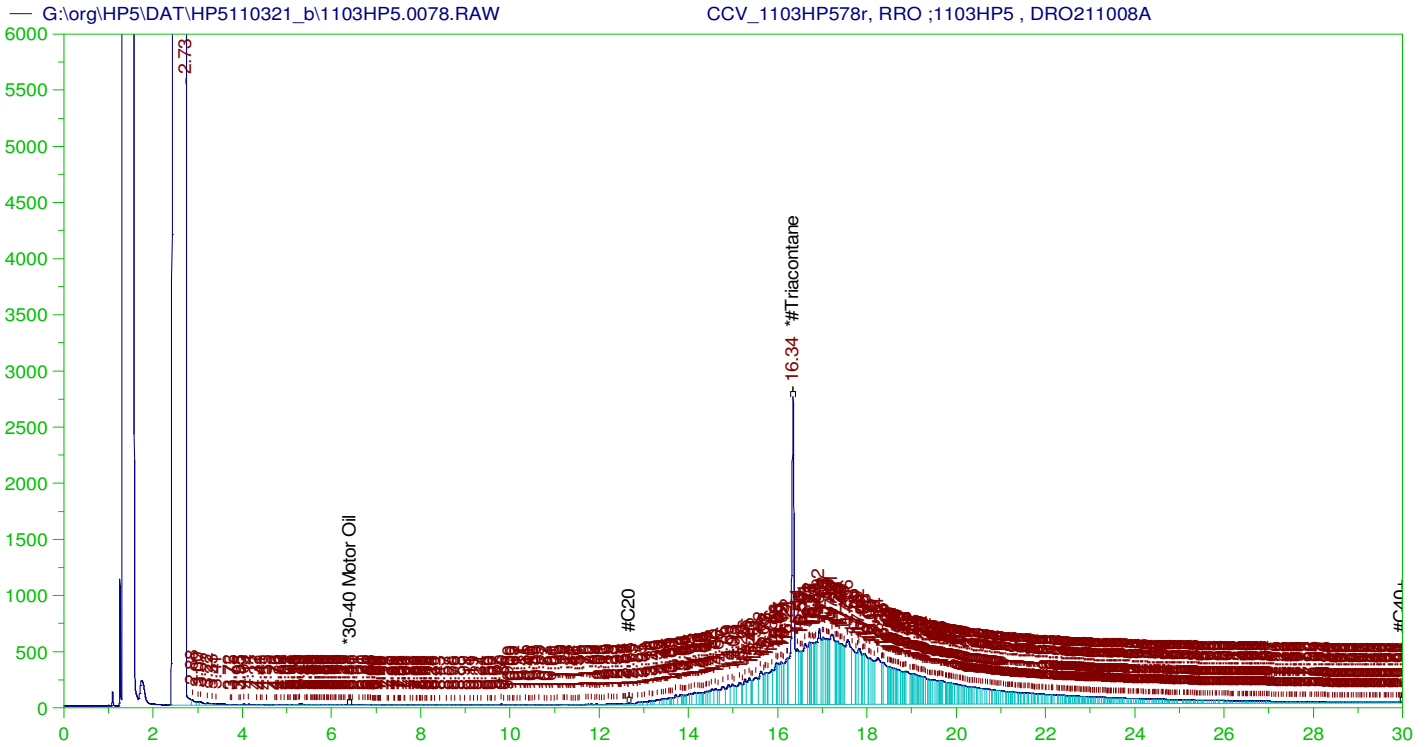
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER\_1103HP577r, DRO ;1103HP5 , DRO211012I  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0077.RAW  
 Date & Time Acquired: 11/5/2021 6:20:20 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO21102IA-24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19  
 Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.276	.2	.219	109.51
*1-Chlorooctadecane	13.079	.2	.176	88.12

DRO Area: 7.394667E+07 DRO Amount: 2.358505  
 TEH Area: 1.194846E+08 TEH Amount: 3.810924



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP578r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0078.RAW  
 Date & Time Acquired: 11/5/2021 7:03:05 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.338	500.	352.62	70.52	-

RRO TEH (Oil Range) Area:1.437909E+08 RRO TEH (Oil Range) AMOUNT: 5037.798

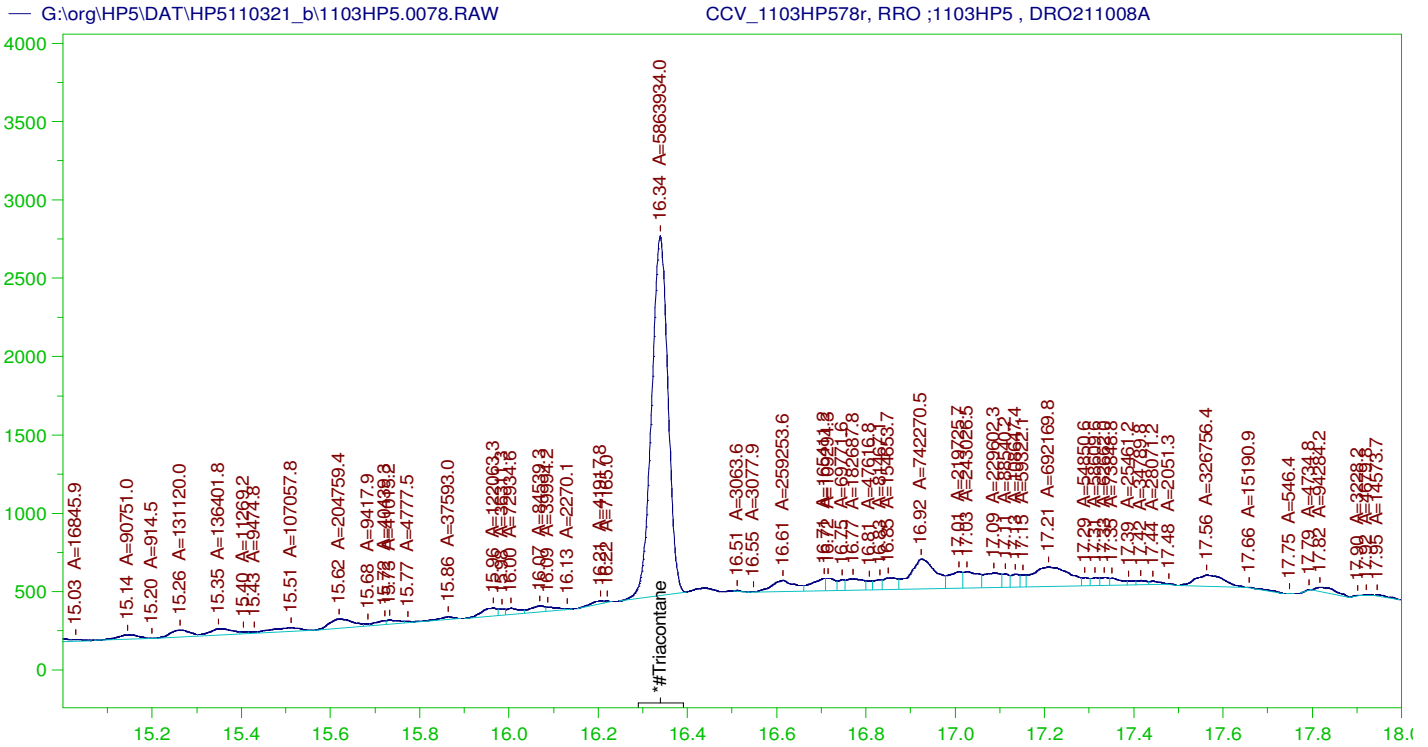
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0078.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.618	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.338	200.	352.62	176.31	75-125

AMN 11/16/2021



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP578r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0078.RAW  
 Date & Time Acquired: 11/5/2021 7:03:05 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.338	500.	202.693	40.54

RRO Area:7008446 RRO AMOUNT: 245.545

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0078.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.618	.	75-125

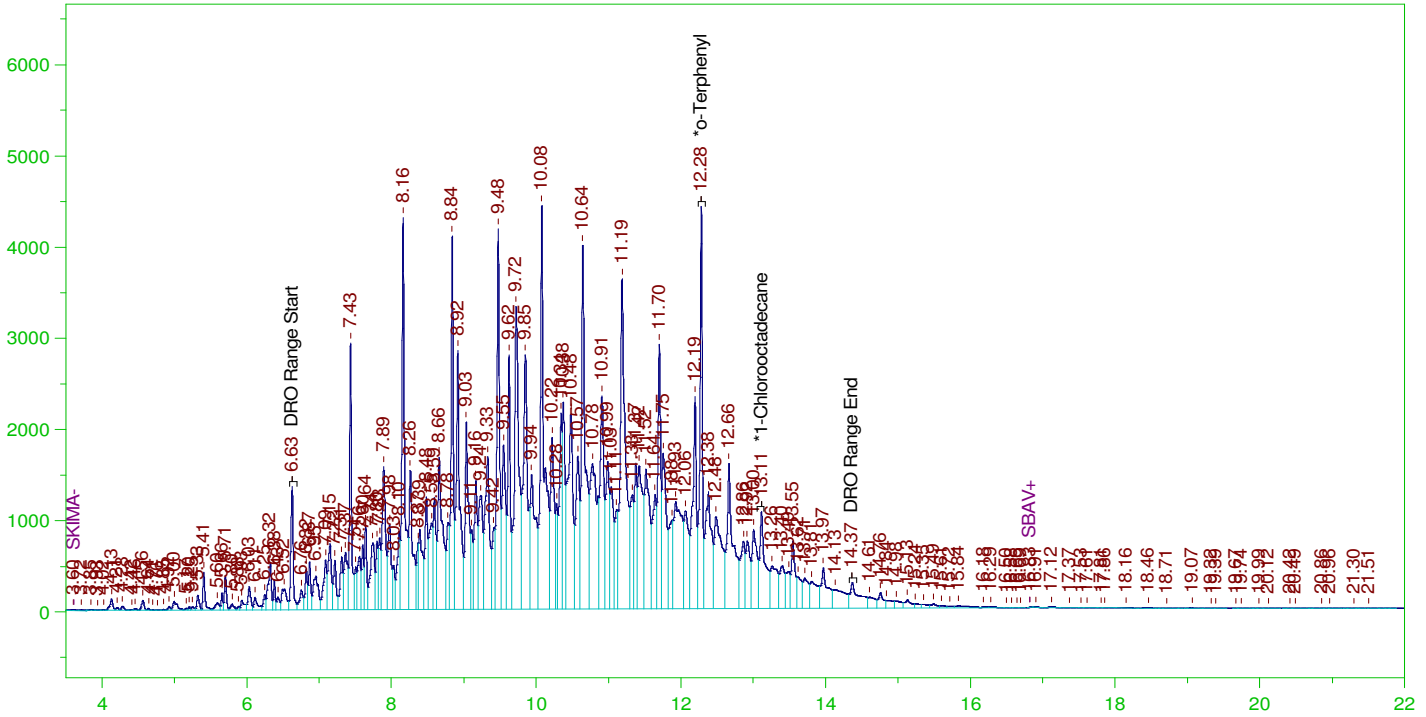
  

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.338	200.	202.693	101.35	75-125



G:\org\HP5\DAT\HP5110321\_b\1103HP5.0079.RAW

CCV\_1103HP579r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP579r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0079.RAW  
 Date & Time Acquired: 11/5/2021 7:46:09 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

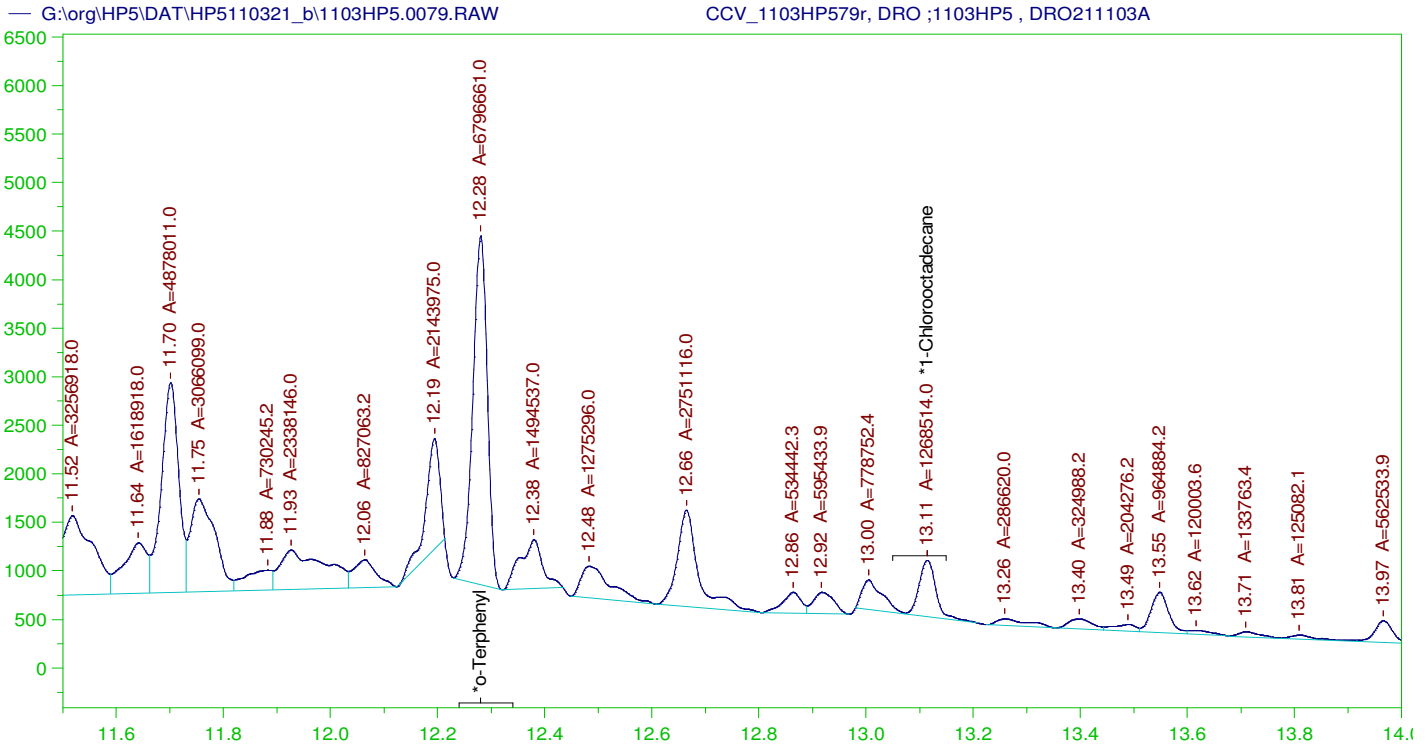
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.281	200.	318.276	159.14
*1-Chlorooctadecane	13.114	200.	154.275	77.14

DRO Area: 4.434514E+08 DRO Amount: 14143.74  
 TEH Area: 4.588037E+08 TEH Amount: 14633.4

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0079.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14633.4	97.56	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.281	200.	318.276	159.14	85-115
*1-Chlorooctadecane	13.114	200.	154.275	77.14	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP579r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0079.RAW  
 Date & Time Acquired: 11/5/2021 7:46:09 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

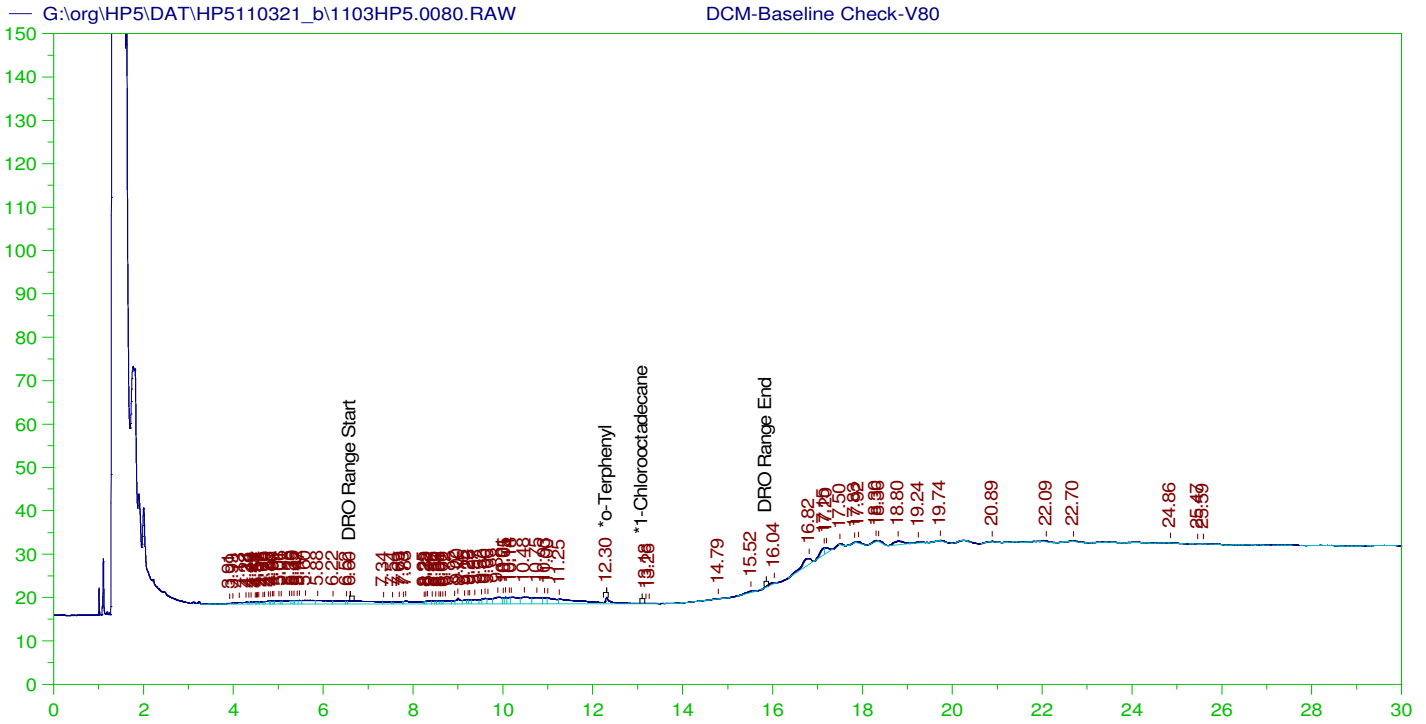
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.281	200.	191.406	95.7
*1-Chlorooctadecane	13.114	200.	35.724	17.86

DRO Area: 2.4969E+08 DRO Amount: 7963.783  
 TEH Area: 2.594477E+08 TEH Amount: 8275.001

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0079.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8275.	55.17	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.281	200.	191.406	95.7	85-115
*1-Chlorooctadecane	13.114	200.	35.724	17.86	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V80  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0080.RAW  
 Date & Time Acquired: 11/5/2021 8:29:10 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	12.304	200.	.352	.18
*1-Chlorooctadecane	29.841	200.	.	.

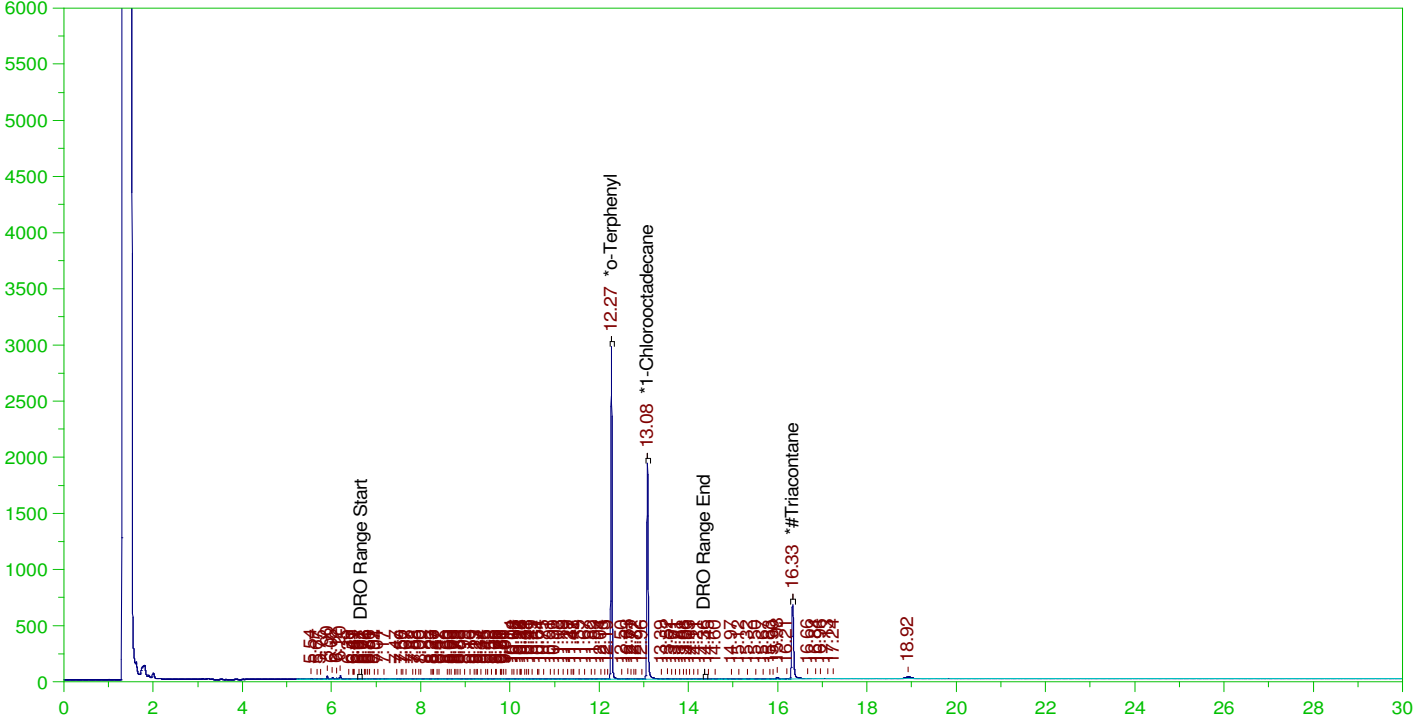
DRO Area:291521.6 DRO Amount: 9.297989  
 TEH Area:486209.2 TEH Amount: 15.50749

ERH1706 (RMHW12A)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0084.RAW

B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0084.RAW  
 Date & Time Acquired: 11/5/2021 11:21:54 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.273	.19	.15	78.73	-
*1-Chlorooctadecane	13.076	.19	.118	61.92	-
*#Triacontane	16.331	.19	.064	33.84	-

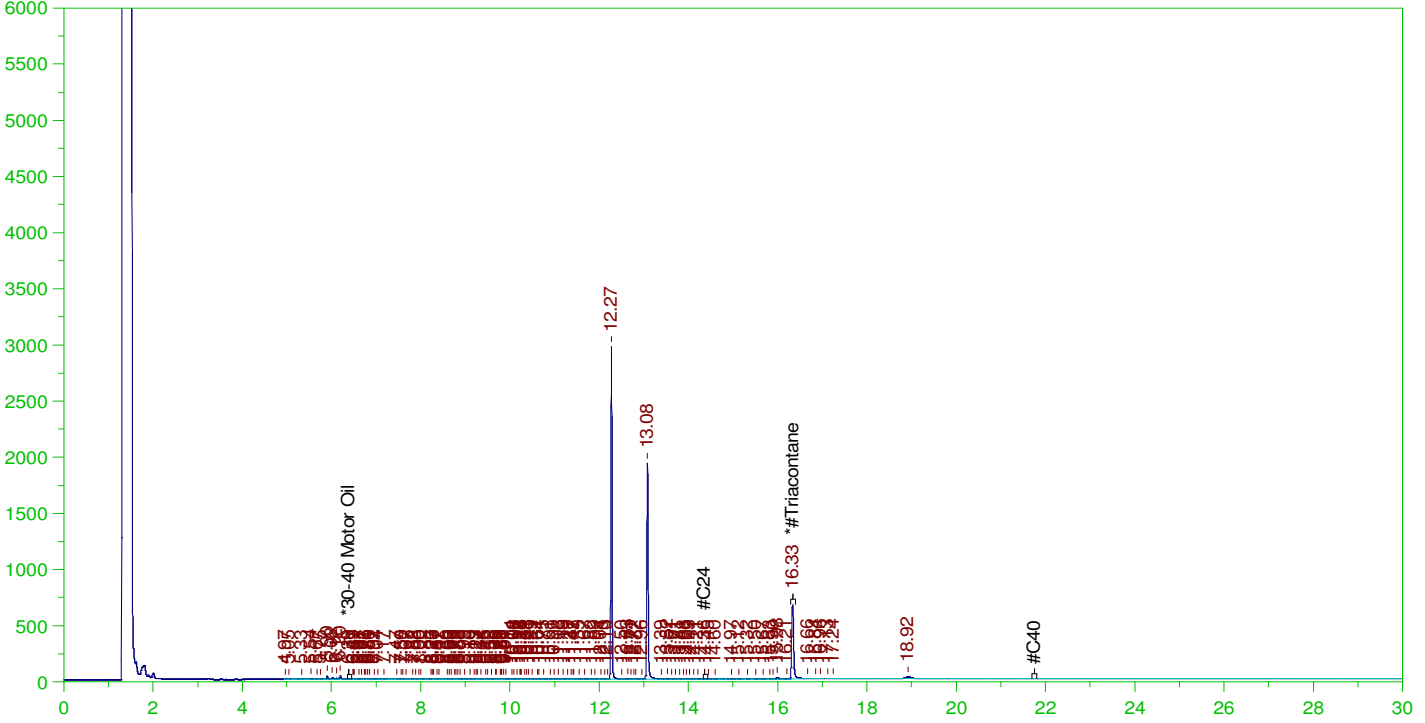
DRO Area: 447940.3 DRO Amount: 1.360658E-02  
 TEH Area: 985107 TEH Amount: 0.0299235

ERH1706 (RMHW12A)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0084.RAW

B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0084.RAW  
 Date & Time Acquired: 11/5/2021 11:21:54 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROSb-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC-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: 14.33 to 21.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.331	.476	.064	13.51

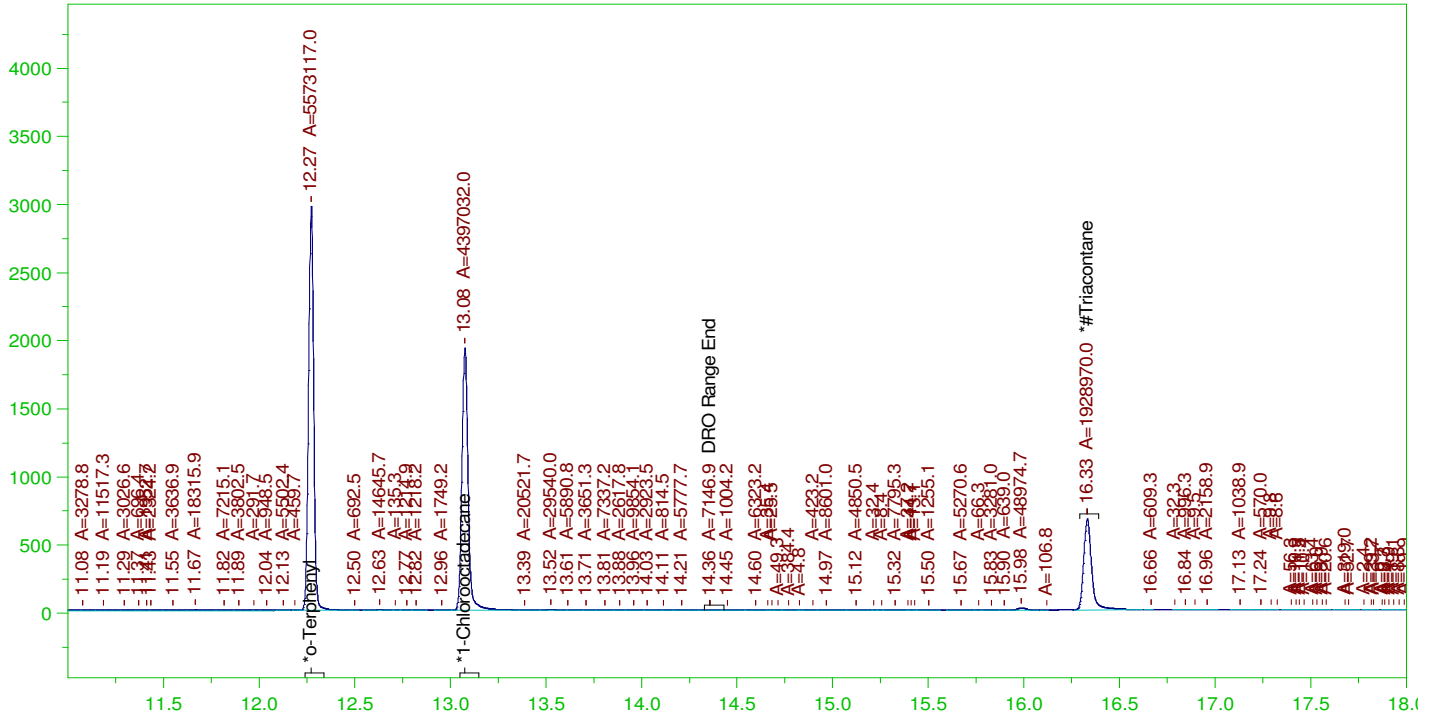
RRO Area: 245654.1 RRO AMOUNT: 8.196793E-03

ERH1706 (RMHW12A)

Batch ID: 160878

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0084.RAW

B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

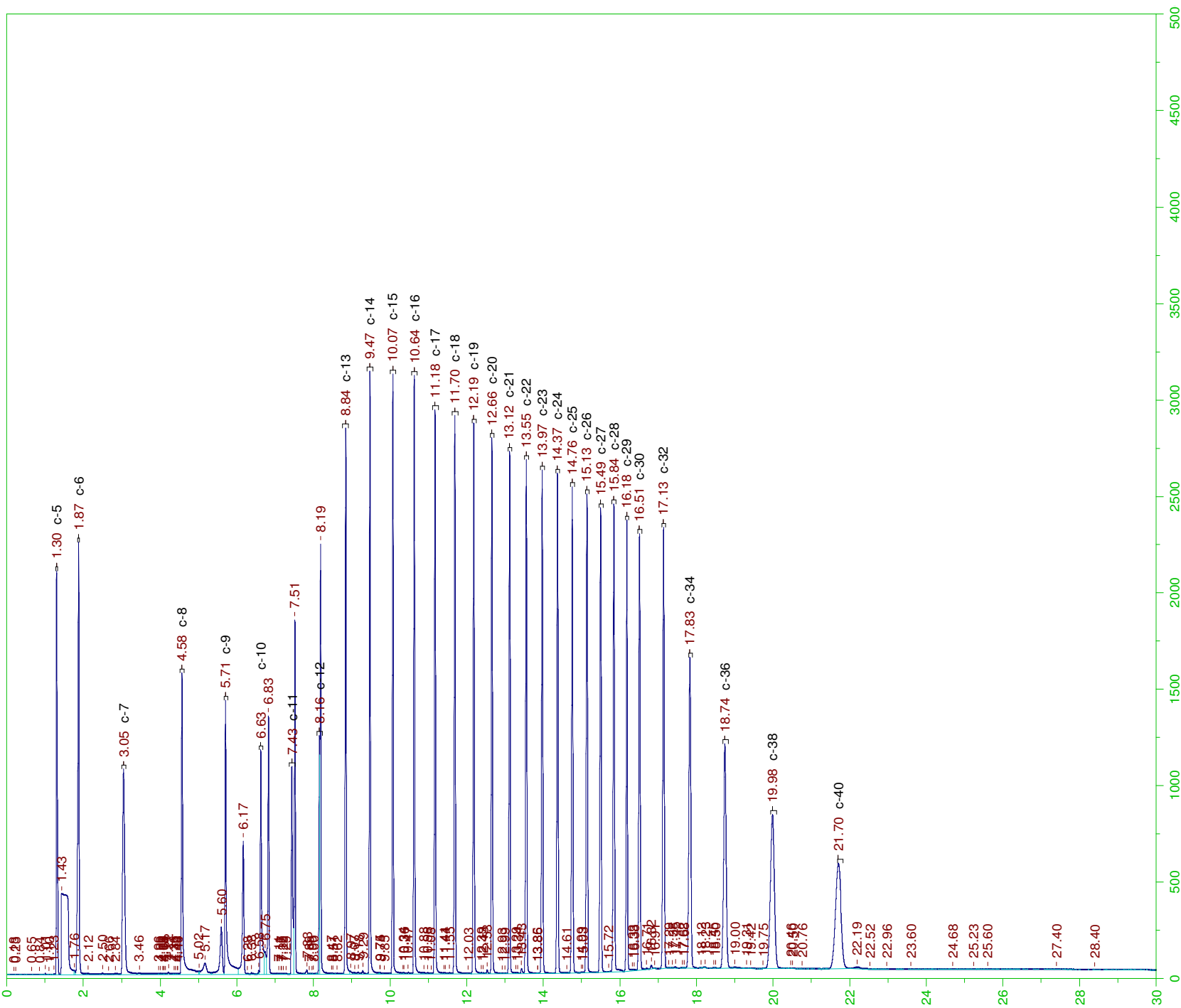
Sample Name: B21110015-001B ; 1103HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0084.RAW  
 Date & Time Acquired: 11/5/2021 11:21:54 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24Tb-IA-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24-Tri.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

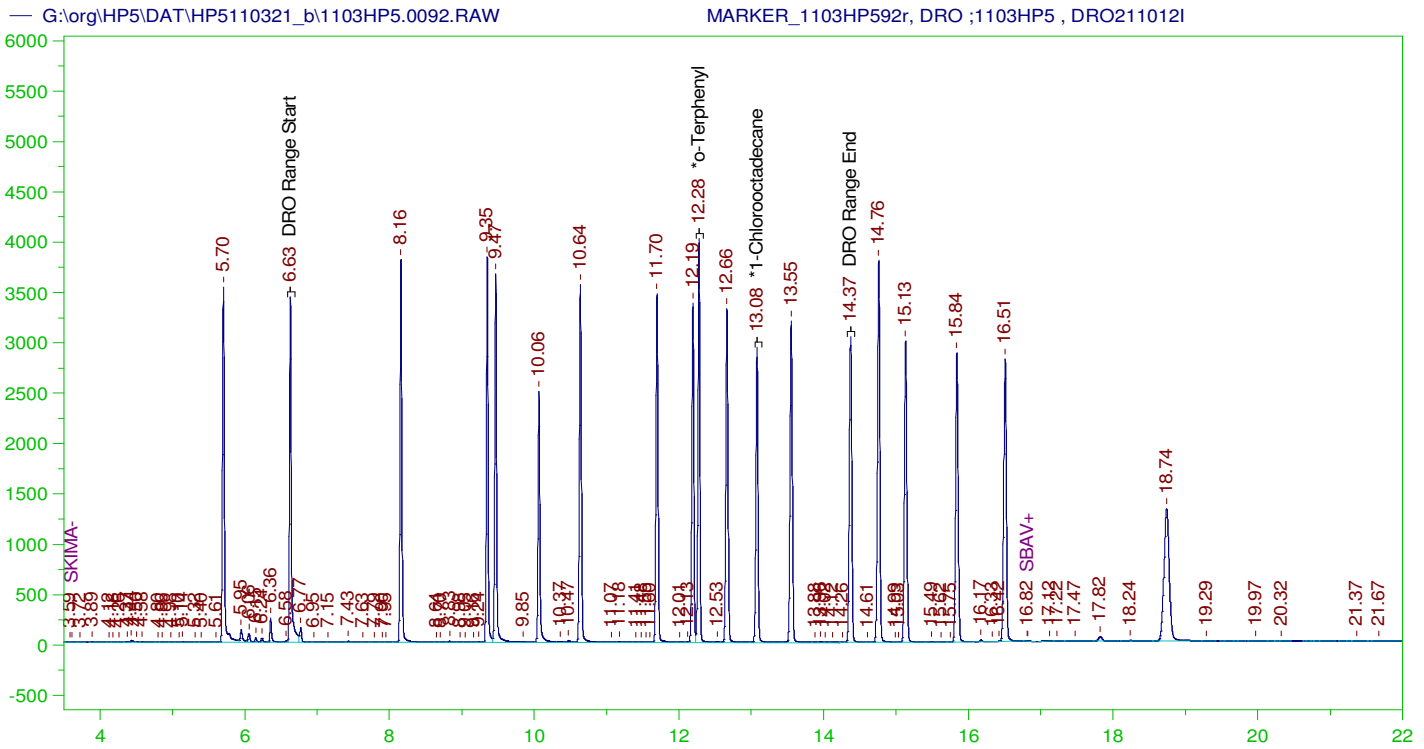
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.273	.19	.149	78.47	-
*1-Chlorooctadecane	13.076	.19	.118	61.91	-
*#Triacontane	16.331	.19	.064	33.34	-

DRO Area: 489753.4 DRO Amount: 1.487669E-02  
 TEH Area: 1092056 TEH Amount: 3.317218E-02





**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MARKER\_1103HP592r, DRO ;1103HP5 , DRO211012I  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0092.RAW  
 Date & Time Acquired: 11/6/2021 5:07:42 AM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO21102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

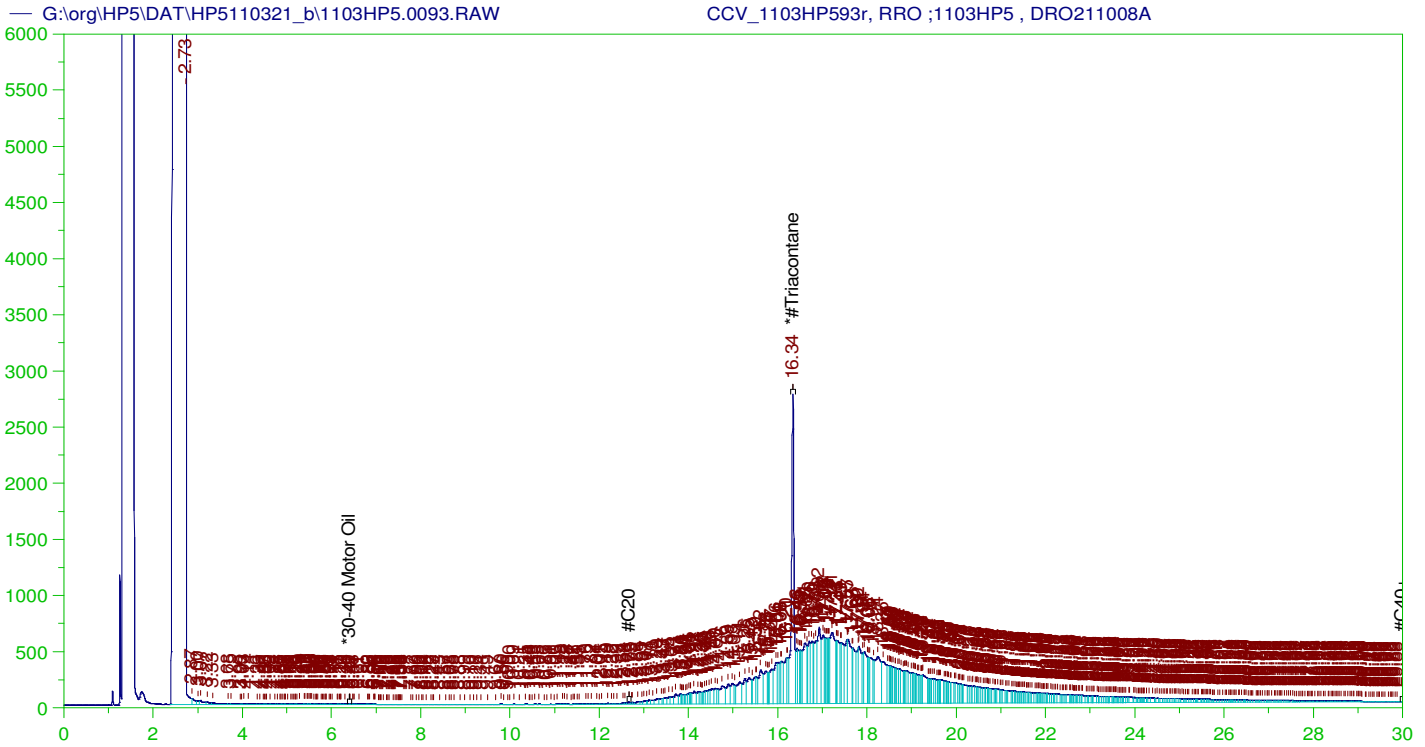
Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.276	200.	215.734	107.87	-
*1-Chlorooctadecane	13.078	200.	173.913	86.96	-

DRO Area: 7.287383E+07 DRO Amount: 2324.288  
 TEH Area: 1.177446E+08 TEH Amount: 3755.426





**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP593r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0093.RAW  
 Date & Time Acquired: 11/6/2021 5:50:47 AM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-AC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.336	500.	346.236	69.25	-

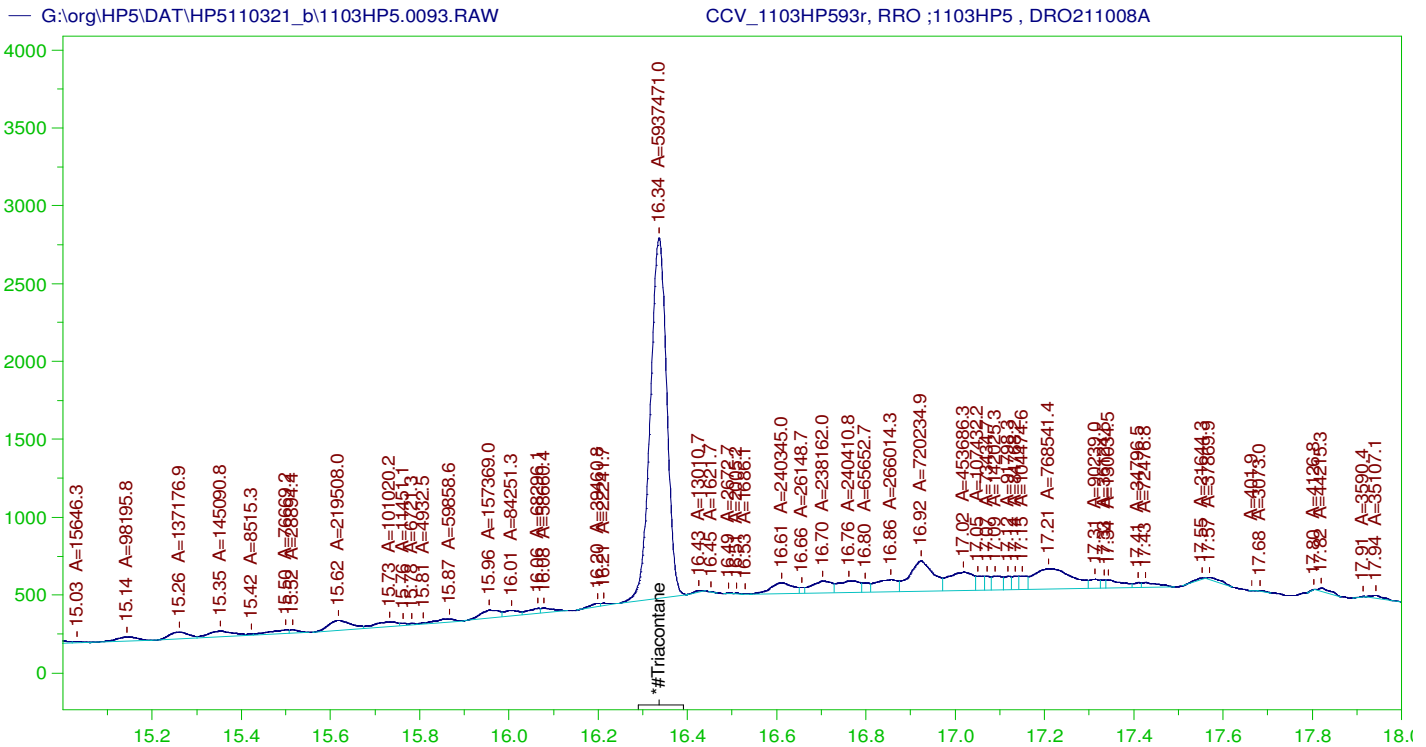
~~RRO~~ TEH (Oil Range) Area:1.443033E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 5055.751

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0093.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.173	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.336	200.	346.236	173.12	75-125

AMN 11/16/2021



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_1103HP593r, RRO ;1103HP5 , DRO211008A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0093.RAW  
 Date & Time Acquired: 11/6/2021 5:50:47 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-AC-L#.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO211017AC.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: 12.62 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.336	500.	205.235	41.05

RRO Area:7007192 RRO AMOUNT: 245.501

**CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0093.RAW**

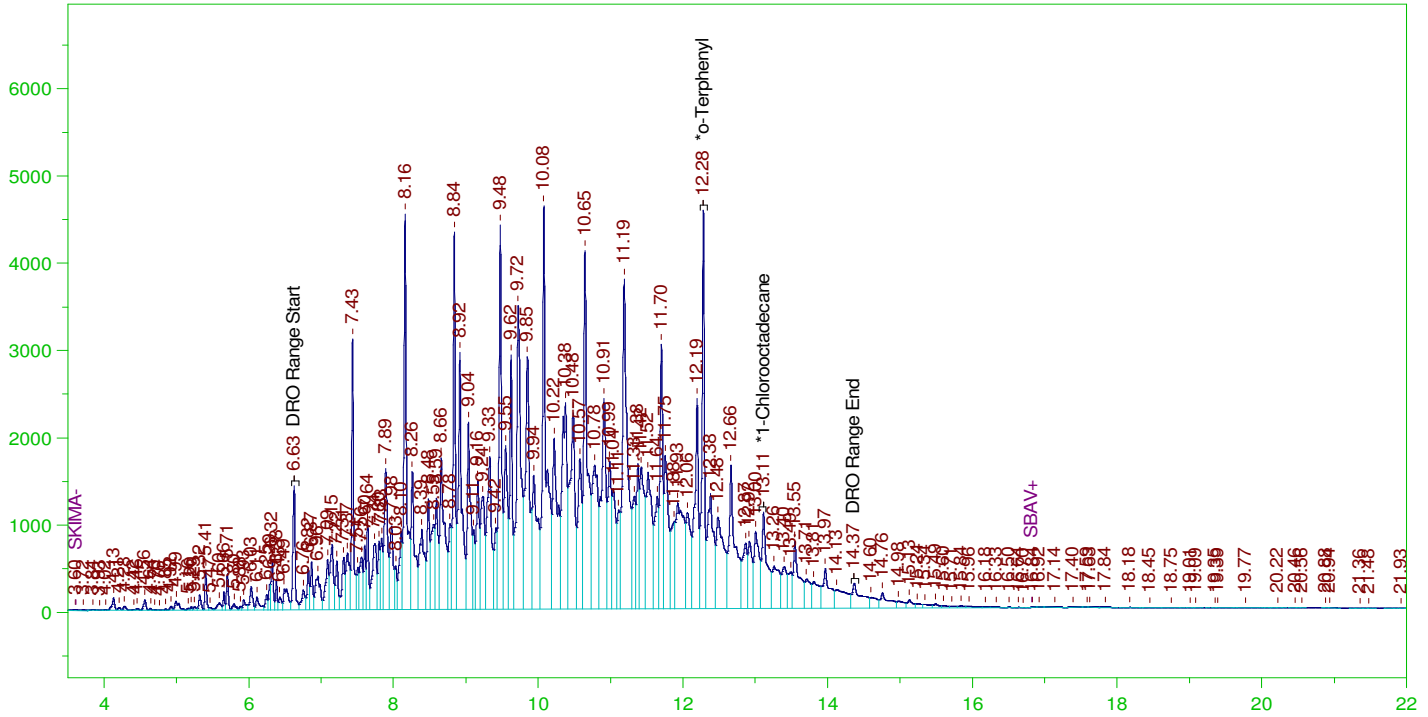
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.173	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.336	200.	205.235	102.62	75-125

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0094.RAW

CCV\_1103HP594r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP594r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0094.RAW  
 Date & Time Acquired: 11/6/2021 6:34:04 AM  
 Method File: G:\Org\HP5\Methods\DC\_8015-24-IA-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.282	200.	328.447	164.22
*1-Chlorooctadecane	13.115	200.	154.887	77.44

DRO Area: 4.551911E+08 DRO Amount: 14518.18  
 TEH Area: 4.708152E+08 TEH Amount: 15016.5

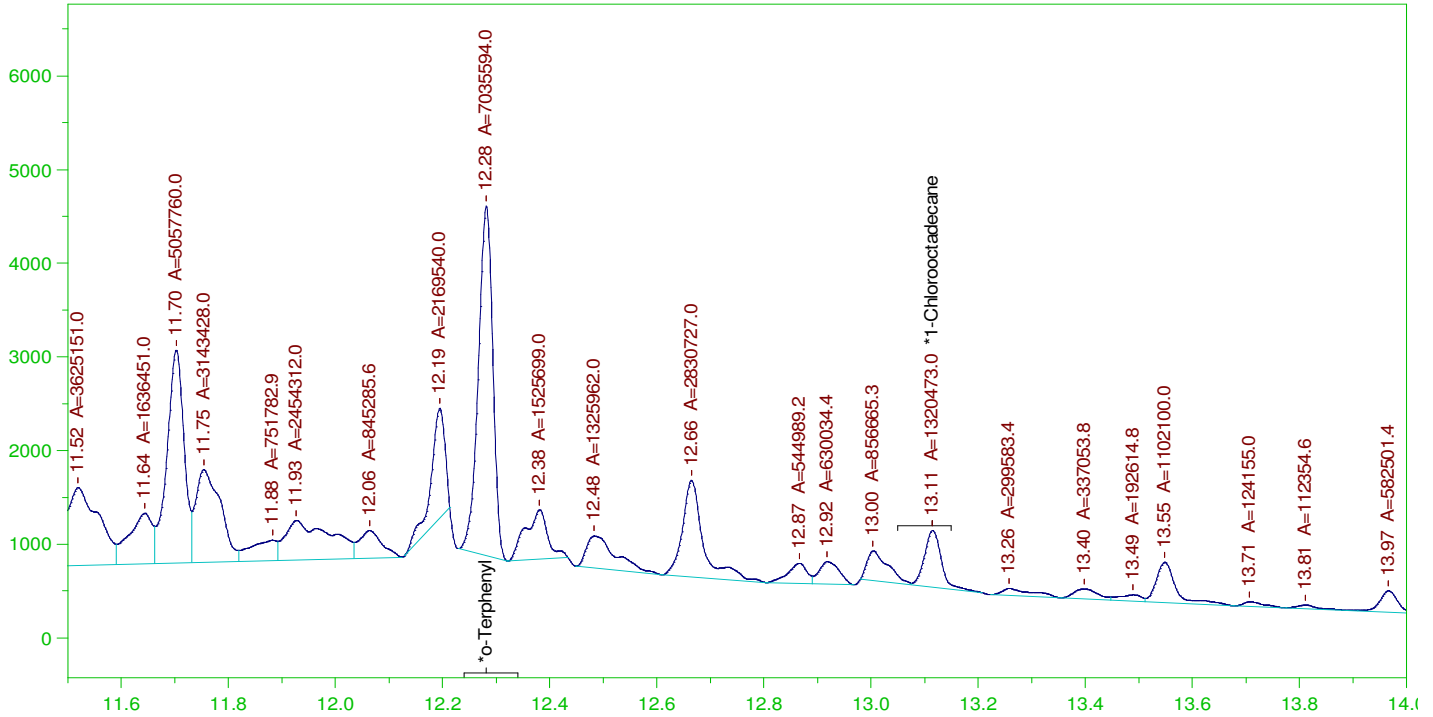
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0094.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15016.5	100.11	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.282	200.	328.447	164.22	85-115
*1-Chlorooctadecane	13.115	200.	154.887	77.44	85-115

G:\org\HP5\DAT\HP5110321\_b\1103HP5.0094.RAW

CCV\_1103HP594r, DRO ;1103HP5 , DRO211103A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1103HP594r, DRO ;1103HP5 , DRO211103A  
 Raw File: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0094.RAW  
 Date & Time Acquired: 11/6/2021 6:34:04 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-24-IA-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IA-24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.59 to 14.43

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.282	200.	198.134	99.07
*1-Chlorooctadecane	13.115	200.	37.187	18.59

DRO Area: 2.570712E+08 DRO Amount: 8199.204  
 TEH Area: 2.672163E+08 TEH Amount: 8522.778

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5110321\_b\1103HP5.0094.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8522.78	56.82	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.282	200.	198.134	99.07	85-115
*1-Chlorooctadecane	13.115	200.	37.187	18.59	85-115

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
		DCM-Baseline Check-V01	G:\Org\HP5-Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
		DCM-Baseline Check-V02	G:\Org\HP5-Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
		MARKER_1103HP503r_DRO_1103HP5_DRO210708A	G:\Org\HP5-Methods\CSC211103.met	1	1	1	1	0	No integrations.
		MARKER_1103HP504r_DRO_1103HP5_DRO211012I	G:\Org\HP5-Methods\DC_8015-24-IA-Lf.met	1000	1	1	1	0	No integrations.
		CCV_1103HP505r_RRO_1103HP5_DRO211008A	G:\Org\HP5-Methods\DC_ORO-AC-Lf.MET G:\Org\HP5-Methods\DS_ORO-AC-Lf.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 and slightly after the surrogate peak at 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
		CCV_1103HP506r_DRO_1103HP5_DRO211103A	G:\Org\HP5-Methods\DC_8015-24-IA-Lf.met G:\Org\HP5-Methods\DS_8015-24-IA-Lf.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 12.21 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
		DCM-Baseline Check-V07	G:\Org\HP5-Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
		LCS-160878_1103HP5	G:\Org\HP5-Methods\D3_8015-24-IA-Lf.met G:\Org\HP5-Methods\DS_8015-24-IA-Lf.met	1000	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
		MB-160878_1103HP5	G:\Org\HP5-Methods\DR_8015-C24T-IA-Lf.met G:\Org\HP5-Methods\DR_OROS-AC-Lf.MET G:\Org\HP5-Methods\DS_8015-C24T-IA-Lf.MET	1000	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 16.23 minutes and slightly after the surrogate peaks at 12.4 and 16.49 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
		B21110057-007A_1103HP5_SHC-8015-DRO-W	G:\Org\HP5-Methods\DR_8015-C24T-IA-Lf.met G:\Org\HP5-Methods\DR_OROS-AC-Lf.MET G:\Org\HP5-Methods\DS_8015-C24T-IA-Lf.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 16.23 minutes and slightly after the surrogate peaks at 12.4 and 16.49 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
		B21110057-006A_1103HP5_SHC-8015-DRO-W_don't use	G:\Org\HP5-Methods\DR_8015-C24T-IA-Lf.met	1020	1	1	1	0	No integrations.
		B21110057-005A_1103HP5_SHC-8015-DRO-W	G:\Org\HP5-Methods\DR_8015-C24T-IA-Lf.met G:\Org\HP5-Methods\DR_OROS-AC-Lf.MET G:\Org\HP5-Methods\DS_8015-C24T-IA-Lf.MET	1030	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 16.23 minutes and slightly after the surrogate peaks at 12.4 and 16.49 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
		B21110057-006A_1103HP5_SHC-8015-DRO-W_RR to verify	G:\Org\HP5-Methods\DR_8015-C24T-IA-Lf.met G:\Org\HP5-Methods\DR_OROS-AC-Lf.MET G:\Org\HP5-Methods\DS_8015-C24T-IA-Lf.MET	1020	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 16.23 minutes and slightly after the surrogate peaks at 12.4 and 16.49 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
		B21110057-004A_1103HP5_SHC-8015-DRO-W	G:\Org\HP5-Methods\D3_8015-C24T-IA-Lf.met G:\Org\HP5-Methods\D3_OROS-AC-Lf.MET G:\Org\HP5-Methods\DS_8015-C24T-IA-Lf.MET	1030	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 16.23 minutes and slightly after the surrogate peaks at 12.4 and 16.49 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
		B21110057-003A_1103HP5_SHC-8015-DRO-W	G:\Org\HP5-Methods\D3_8015-C24T-IA-Lf.met G:\Org\HP5-Methods\D3_OROS-AC-Lf.MET G:\Org\HP5-Methods\DS_8015-C24T-IA-Lf.MET	990	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 16.23 minutes and slightly after the surrogate peaks at 12.4 and 16.49 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
		B21110057-002A_1103HP5_SHC-8015-DRO-W	G:\Org\HP5-Methods\D3_8015-C24T-IA-Lf.met G:\Org\HP5-Methods\D3_OROS-AC-Lf.MET G:\Org\HP5-Methods\DS_8015-C24T-IA-Lf.MET	1020	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 16.23 minutes and slightly after the surrogate peaks at 12.4 and 16.49 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
		B21110057-001A_1103HP5_SHC-8015-DRO-W	G:\Org\HP5-Methods\D3_8015-110317-C24T-IA-Lf.met G:\Org\HP5-Methods\D3_OROS-110317-AC-Lf.MET G:\Org\HP5-Methods\DS_8015-C24T-IA-Lf.MET	980	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 with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.16 minutes and 16.23 minutes and slightly after the surrogate peaks at 12.4 and 16.49 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
		MARKER_1103HP518r_DRO_1103HP5_DRO210708A	G:\Org\HP5-Methods\CSC211103.met	1	1	1	1	0	No integrations.
		MARKER_1103HP519r_DRO_1103HP5_DRO211012I	G:\Org\HP5-Methods\DC_8015-24-IA-Lf.met	1000	1	1	1	0	No integrations.

*Ann Nebel*  
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Digitally signed by  
Ann Nebel  
Date: 2021.11.16 13:58:48 -07:00  
Page 1 of 30

G:\org\HP5\DAT\HP5110321_b1103HP5.20r	CCV_1103HP520r, RRO ;1103HP5 , DRO211008A	G:\org\HP5\Methods\DC_ORO-AC-L%.MET G:\org\HP5\Methods\DS_ORO-AC-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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.21r	CCV_1103HP521r, DRO ;1103HP5 , DRO211103A	G:\org\HP5\Methods\DC_8015-24-IA-L%.met G:\org\HP5\Methods\DS_8015-24-IA-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 12.21 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\HP5110321_b1103HP5.22r	DCM-Baseline Check-V22	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.23r	B21110079-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROS-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24T-IA-L%.MET	1020	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 16.23 minutes and slightly after the surrogate peaks at 12.4 and 16.49 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.24r	B21110079-001BMS ;1103HP5 ,	G:\org\HP5\Methods\DR_8015-110324-24-IA-L%.met G:\org\HP5\Methods\DS_8015-24-IA-L%.met	1040	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 peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 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\HP5110321_b1103HP5.25r	B21110079-001BMSD ;1103HP5 ,	G:\org\HP5\Methods\DR_8015-24-IA-L%.met G:\org\HP5\Methods\DS_8015-24-IA-L%.met	1020	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. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 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\HP5110321_b1103HP5.26r	DCM-Baseline Check-V26	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.27r	B21110079-001BMS-RRO ;1103HP5 ,	G:\org\HP5\Methods\DR_8015-IA-LEXP.met G:\org\HP5\Methods\DR_ORO-AC-L%.MET G:\org\HP5\Methods\DS_ORO-AC-L%.MET	1050	1	1	1	0	The integration of Oil Range hydrocarbon (C24-C40) 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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.28r	DCM-Baseline Check-V28	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.29r	B21110079-001BMSD-RRO ;1103HP5 ,	G:\org\HP5\Methods\DR_8015-IA-LEXP.met G:\org\HP5\Methods\DR_ORO-AC-L%.MET G:\org\HP5\Methods\DS_ORO-AC-L%.MET	1060	1	1	1	0	The integration of Oil Range hydrocarbon (C24-C40) 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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.30r	DCM-Baseline Check-V30	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.31r	LCS-160878-RRO ;1103HP5 ,	G:\org\HP5\Methods\DR_8015-IA-LEXP.met G:\org\HP5\Methods\DS_ORO-AC-L%.MET	1000	1	1	1	0	The integration of Oil Range hydrocarbon (C24-C40) 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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.32r	MARKER_1103HP532r, DRO ;1103HP5 , DRO210708A	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.33r	MARKER_1103HP533r, DRO ;1103HP5 , DRO211012I	G:\org\HP5\Methods\DC_8015-24-IA-L%.met	1000	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.34r	CCV_1103HP534r, RRO ;1103HP5 , DRO211008A	G:\org\HP5\Methods\DC_ORO-AC-L%.MET G:\org\HP5\Methods\DS_ORO-AC-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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.35r	CCV_1103HP535r, DRO ;1103HP5 , DRO211103A	G:\org\HP5\Methods\DC_8015-24-IA-L%.met G:\org\HP5\Methods\DS_8015-24-IA-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 12.21 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\HP5110321_b1103HP5.36r	DCM-Baseline Check-V36	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.37r	DCM-Baseline Check-V37	G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.38r	B21110045-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROS-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24T-IA-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. Assigned Set Baseline All Valley on at 17.12 minutes for C10-C24 and TEH and Assigned Set Baseline All Valley on at 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.39r	B21110015-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROS-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24T-IA-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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.

G:\org\HP5\DAT\HP5110321_b1103HP5.40r	B21110021-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1055	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.41r	B21110030-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1030	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.42r	B21110030-002B ;1103HP5 , \$HC-8015-DRO-W,	G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1030	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.43r	B21110062-001B ;1103HP5 , \$HC-8015-DRO-W,	G:\org\HP5\Methods\D3_8015-C24T-IA-L%.met G:\org\HP5\Methods\D3_OROS-AC-L%.MET G:\org\HP5\Methods\DS_8015-110342-IA-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. 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes..
G:\org\HP5\DAT\HP5110321_b1103HP5.44r	B21110062-002B ;1103HP5 , \$HC-8015-DRO-W,	G:\org\HP5\Methods\D3_8015-C24T-IA-L%.met G:\org\HP5\Methods\D3_OROS-AC-L%.MET G:\org\HP5\Methods\DS_8015-110342-IA-L%.MET	1060	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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes..
G:\org\HP5\DAT\HP5110321_b1103HP5.45r	B21110079-002B ;1103HP5 , \$HC-8015-DRO-W,	G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1000	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.46r	B21110079-003B ;1103HP5 , \$HC-8015-DRO-W,	G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1010	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.47r	MARKER 1103HP547r; DRO ;1103HP5 , DRO210708A	G:\org\HP5\Methods\CSC211103.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.48r	MARKER 1103HP548r; DRO ;1103HP5 , DRO211012I	G:\org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.49r	CCV_1103HP549r; RRO ;1103HP5 , DRO211008A	G:\org\HP5\Methods\DC_ORO-AC-L%.MET G:\org\HP5\Methods\DS_ORO-AC-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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.50r	CCV_1103HP550r; DRO ;1103HP5 , DRO211103A	G:\org\HP5\Methods\DC_8015-24-IA-L%.met G:\org\HP5\Methods\DS_8015-24-IA-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 16.53 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.

*Ann Nebel*

Digitally signed by  
Ann Nebel  
Date: 2021.11.16 13:59:35 -07:00

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
									0 No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.47r	MARKER_1103HP547r; DRO :1103HP5_DRO210708A		G:\org\HP5\Methods\CSC211103.met	1	1	1	1	1	0 No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.48r	MARKER_1103HP548r; DRO :1103HP5_DRO211012I		G:\org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	1	0 No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.49r	CCV_1103HP549r; RRO :1103HP5_DRO211008A		G:\org\HP5\Methods\DC_ORO-AC-L%.MET G:\org\HP5\Methods\DS_ORO-AC-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 slightly after the surrogate peak at 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.50r	CCV_1103HP550r; DRO :1103HP5_DRO211103A		G:\org\HP5\Methods\DC_8015-24-IA-L%.met G:\org\HP5\Methods\DS_8015-24-IA-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 12.21 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\HP5110321_b1103HP5.51r	DCM-Baseline Check-V51		G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	1	0 No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.52r	LCS-160878 ;1103HP5_SGT		G:\org\HP5\Methods\D3_8015-24-IA-L%.met G:\org\HP5\Methods\DS_8015-24-IA-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. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 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\HP5110321_b1103HP5.53r	MB-160878 ;1103HP5_SGT		G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.54r	B21110057-004A ;1103HP5_SHC-8015-DRO-W, SGT		G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1030	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.55r	B21110057-003A ;1103HP5_SHC-8015-DRO-W, SGT		G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	990	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.56r	B21110057-001A ;1103HP5_SHC-8015-DRO-W, SGT		G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	980	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.57r	B21110057-002A ;1103HP5_SHC-8015-DRO-W, SGT		G:\org\HP5\Methods\D3_8015-110357-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-110357-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1020	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 28.45 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.58r	DCM-Baseline Check-V58		G:\org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	1	0 No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.59r	B21110079-001B ;1103HP5_SHC-8015-DRO-W, SGT		G:\org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\org\HP5\Methods\DR_OROSb-AC-L%.MET G:\org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1020	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.60r	B21110079-001BMS ;1103HP5_SGT		G:\org\HP5\Methods\D3_8015-24-IA-L%.met G:\org\HP5\Methods\DS_8015-24-IA-L%.met	1040	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. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 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\HP5110321_b1103HP5.61r	MARKER_1103HP562r; DRO :1103HP5_DRO210708A		G:\org\HP5\Methods\CSC211103.met	1	1	1	1	1	0 No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.62r	MARKER_1103HP563r; DRO :1103HP5_DRO211012I		G:\org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	1	0 No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.63r	CCV_1103HP564r; RRO :1103HP5_DRO211008A		G:\org\HP5\Methods\DC_ORO-AC-L%.MET G:\org\HP5\Methods\DS_ORO-AC-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 slightly after the surrogate peak at 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.



G:\org\HP5\DAT\HP5110321_b1103HP5.64r	CCV_1103HP565r_DRO ;1103HP5 , DRO211103A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met G:\Org\HP5\Methods\DS_8015-24-IA-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 12.21 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\HP5110321_b1103HP5.65r	DCM-Baseline Check-V65	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.66r	B21110030-001B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\Org\HP5\Methods\DR_OROSb-AC-L%.MET G:\Org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1030	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.67r	B21110030-002B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\Org\HP5\Methods\DR_OROSb-AC-L%.MET G:\Org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1030	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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.68r	B21110062-001B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-68-C24T-IA-L%.met G:\Org\HP5\Methods\DR_OROSb-AC-L%.MET G:\Org\HP5\Methods\DS_8015-C24Tb-IA-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 and peak width adjusted for C10-C24 and TEH and Assigned Set Baseline All Valley on at 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.69r	B21110062-002B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-68-C24T-IA-L%.met G:\Org\HP5\Methods\DR_OROSb-AC-L%.MET G:\Org\HP5\Methods\DS_8015-C24Tb-IA-L%.MET	1060	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 and peak width adjusted for C10-C24 and TEH and Assigned Set Baseline All Valley on at 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.70r	B21110079-001BMSD ;1103HP5 , SGT	G:\Org\HP5\Methods\DR_8015-70-24-IA-L%.met G:\Org\HP5\Methods\DS_8015-24-IA-L%.met	1020	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 peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed slight before at 12.21 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\HP5110321_b1103HP5.71r	B21110079-001BMS-RR0 ;1103HP5 , SGT	G:\Org\HP5\Methods\DR_ORO-AC-L%.MET G:\Org\HP5\Methods\DS_ORO-AC-L%.MET	1050	1	1	1	0	The integration of Oil Range hydrocarbon (C24-C40) 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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.72r	DCM-Baseline Check-V72	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.73r	B21110079-001BMSD-RR0 ;1103HP5 , SGT	G:\Org\HP5\Methods\DR_ORO-AC-L%.MET G:\Org\HP5\Methods\DS_ORO-AC-L%.MET	1060	1	1	1	0	The integration of Oil Range hydrocarbon (C24-C40) 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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.74r	DCM-Baseline Check-V74	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.75r	LCS-160978-RR0 ;1103HP5 , SGT	G:\Org\HP5\Methods\DR_ORO-AC-L%.MET G:\Org\HP5\Methods\DS_ORO-AC-L%.MET	1000	1	1	1	0	The integration of Oil Range hydrocarbon (C24-C40) 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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.76r	MARKER 1103HP576r_DRO ;1103HP5 , DRO210708A	G:\org\HP5\Methods\CSC211103.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.77r	MARKER 1103HP577r_DRO ;1103HP5 , DRO211012I	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.78r	CCV_1103HP578r_RRO ;1103HP5 , DRO211008A	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET G:\Org\HP5\Methods\DS_ORO-AC-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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.79r	CCV_1103HP579r_DRO ;1103HP5 , DRO211103A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met G:\Org\HP5\Methods\DS_8015-24-IA-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 12.21 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\HP5110321_b1103HP5.80r	DCM-Baseline Check-V80	G:\Org\HP5\Methods\DR_8015-IA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.84r	B21110015-001B ;1103HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IA-L%.met G:\Org\HP5\Methods\DR_OROSb-AC-L%.MET G:\Org\HP5\Methods\DS_8015-C24Tb-IA-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 16.79 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 16.68 minutes. X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.81r	MARKER 1103HP581r_DRO ;1103HP5 , DRO210708A	G:\org\HP5\Methods\CSC211103.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5110321_b1103HP5.92r	MARKER 1103HP592r_DRO ;1103HP5 , DRO211012I	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met	1	1	1	1	0	No integrations.

G:\org\HP5\DAT\HP5110321_b1103HP5.94r	CCV_1103HP594r, RRO ;103HP5 , DRO211008A	G:\Org\HP5\Methods\DC_ORO-AC-L%.MET G:\Org\HP5\Methods\DS_ORO-AC-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 16.44 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP5\DAT\HP5110321_b1103HP5.94r	CCV_1103HP594r, DRO ;103HP5 , DRO21103A	G:\Org\HP5\Methods\DC_8015-24-IA-L%.met G:\Org\HP5\Methods\DS_8015-24-IA-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 12.21 minutes and slightly after the surrogate peak at 12.43 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.

# 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

Anna

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](mailto:info@chemservice.com) • [www.chemservice.com](http://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

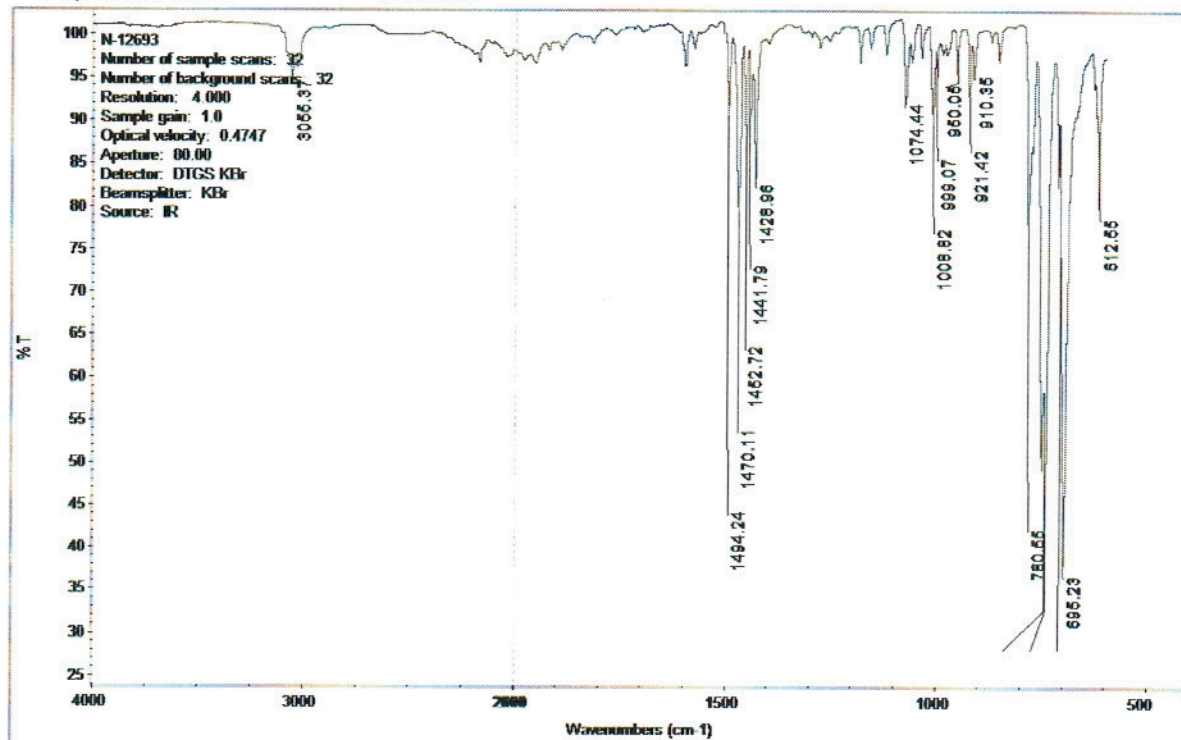
Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



## 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



## 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

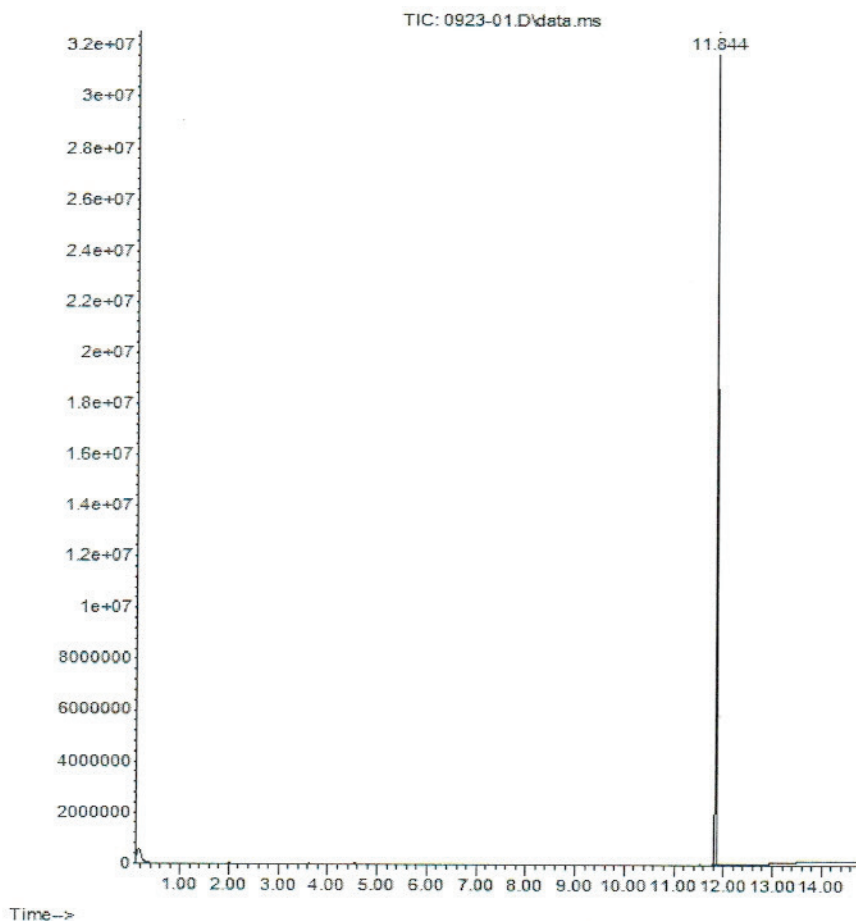
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## 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





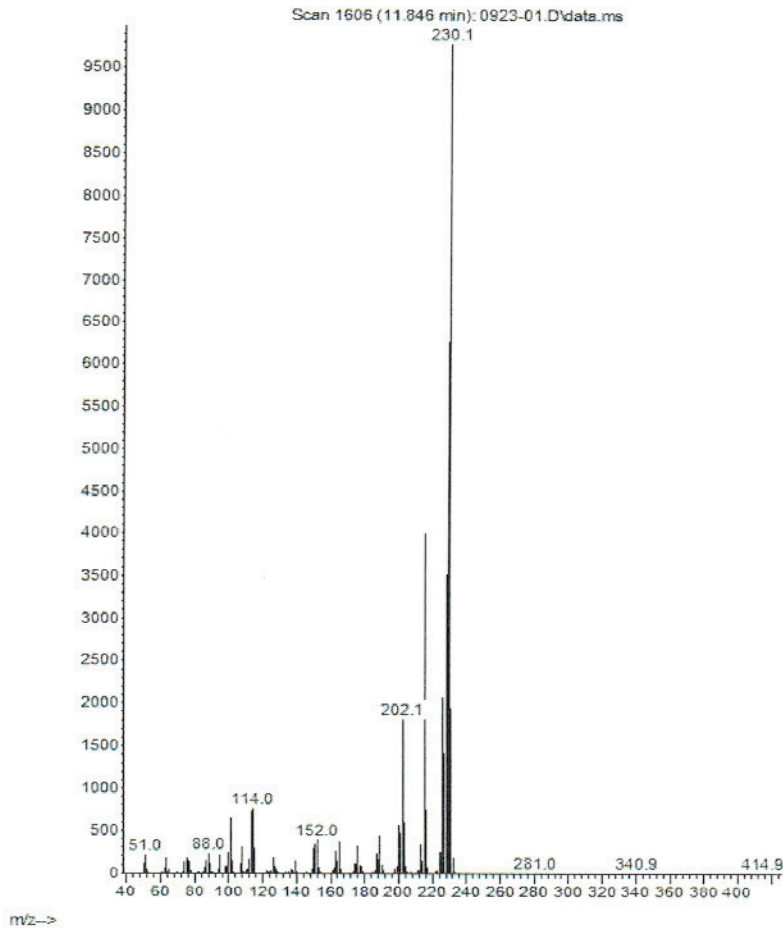
660 Tower Lane • P. O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
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## CERTIFICATE OF ANALYSIS

### 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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## 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



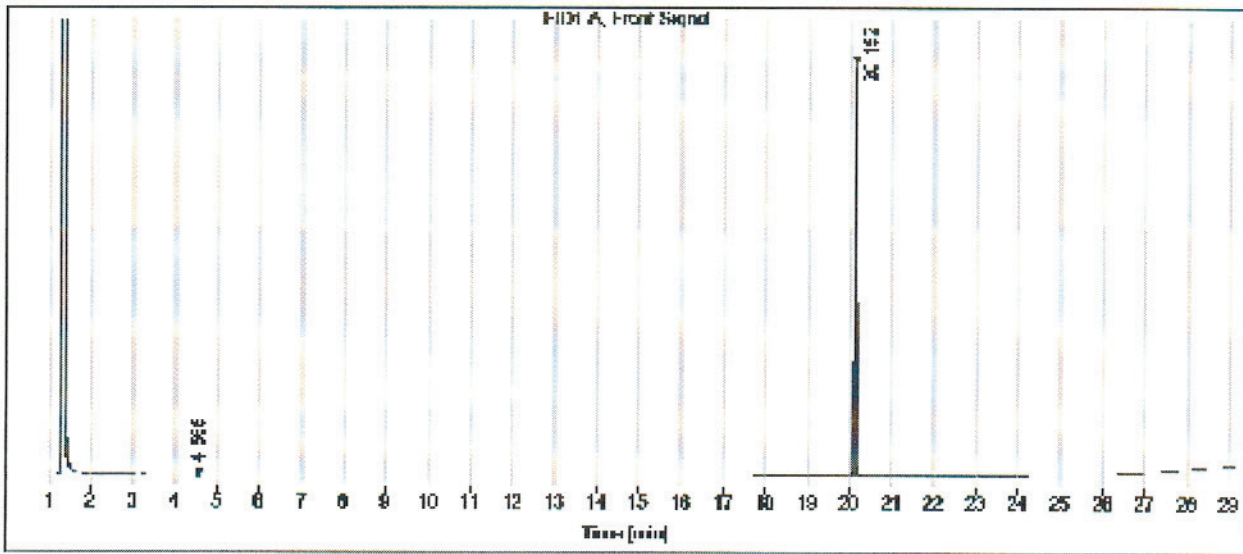
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

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 Type: Primary  
Date Prepared 10/12/2021 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	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

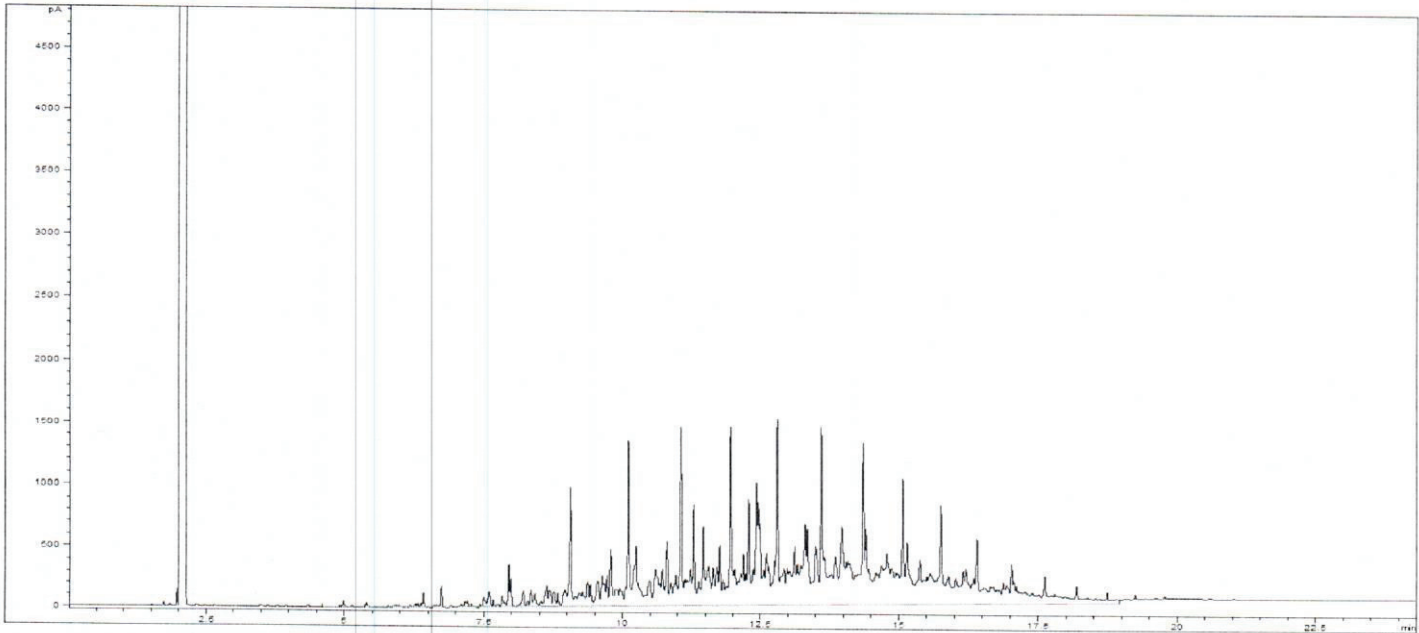
Rec'd: 10/12/2021

Energy Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

## Certified Values

Analyte	Certified Value <sup>1,4</sup>	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: H<sub>2</sub>, 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.

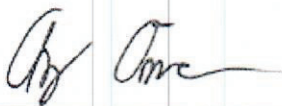
**Traceability:** The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual 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.

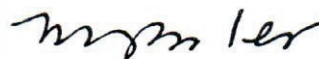
Expiration is at end of month given on certificate and label.

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

Eneray Laboratories Inc 1120 So. 27th Street  
Billings MT 59107



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

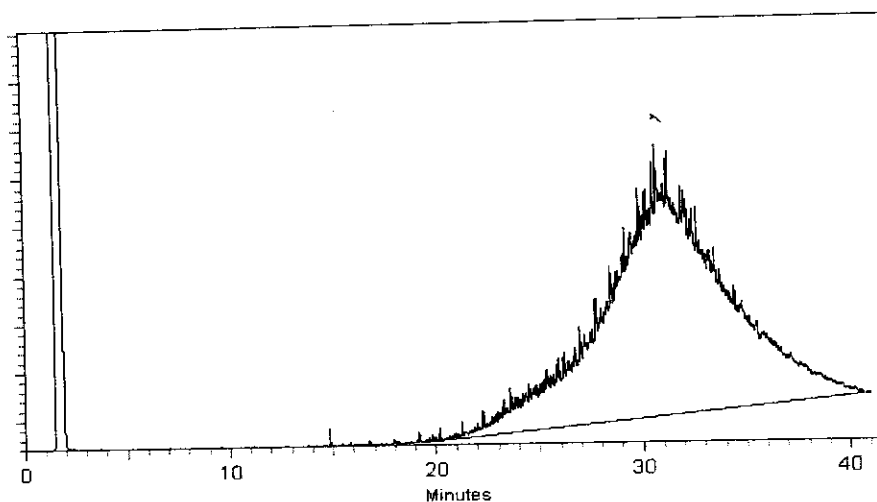
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**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: \_\_\_\_\_

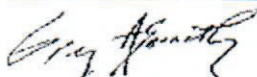
Triacontane-d62-98 atom % D

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 Type: Secondary  
Date Prepared 10/12/2021 BY: Ann Nebel  
Date Expires: 11/5/2023  
Department dropr Status: New  
Vendor:  
Lot Number:  
Balance ID: BAL-DRO  
Comments: #2 Diesel in Acetone 150,000 ug/mL.

---

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>	<u>Conc:</u>	<u>ug/mL</u>
A #2 Diesel	68476-34-6	250 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  
 Type: Secondary  
 BY: Ann Nebel  
 Status: Expired  
 Comments:

---

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: DRO211103A  
 Standard Name: 8015 CCV-15,000ug/mL + 200 OTP  
 Date Prepared: 11/3/2021  
 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 EC344	14448	2.6	mL	8/26/

**Final Volume:** 4 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO211101A OTP-4000 ug/mL DCM	ug/mL	0.2 mL
DRO211012A Diesel Fuel #2 50,000 ug/mL in DCM	ug/mL	1.2 mL

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A #2 Diesel			15000
A O-Terphenyl	84-15-1		200

# 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  
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[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://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

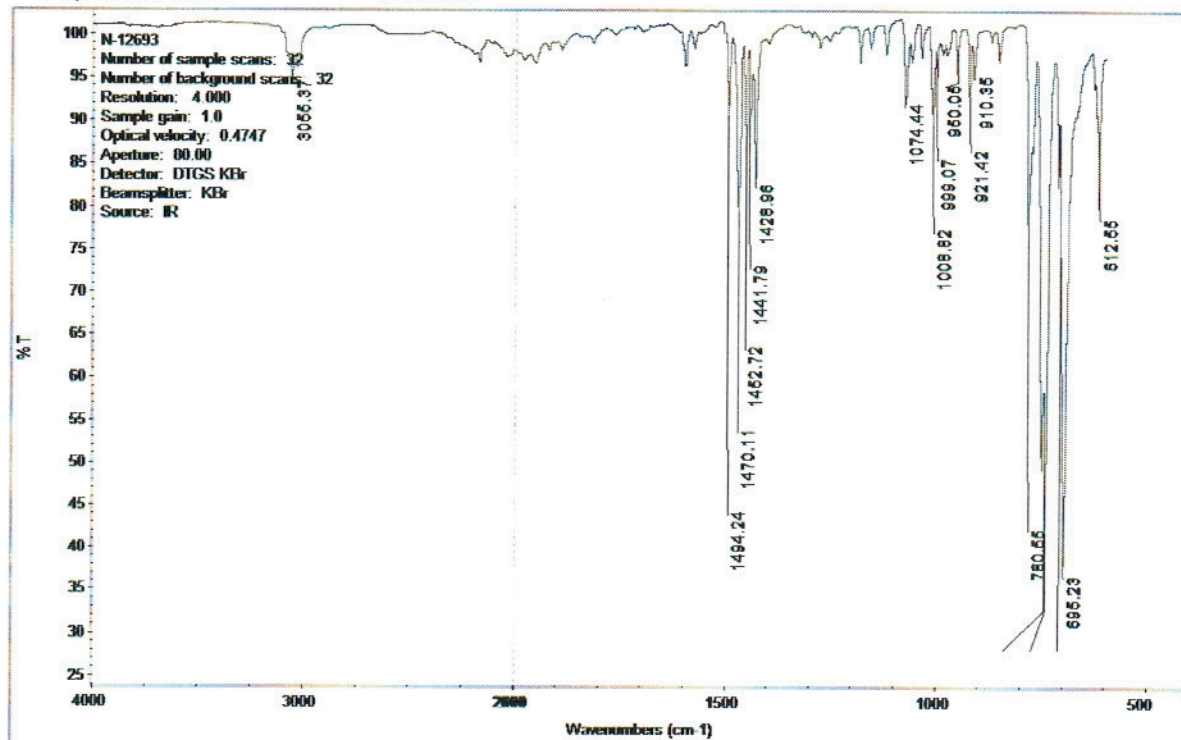
Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



## 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](mailto:info@chemservice.com) • [www.chemservice.com](http://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

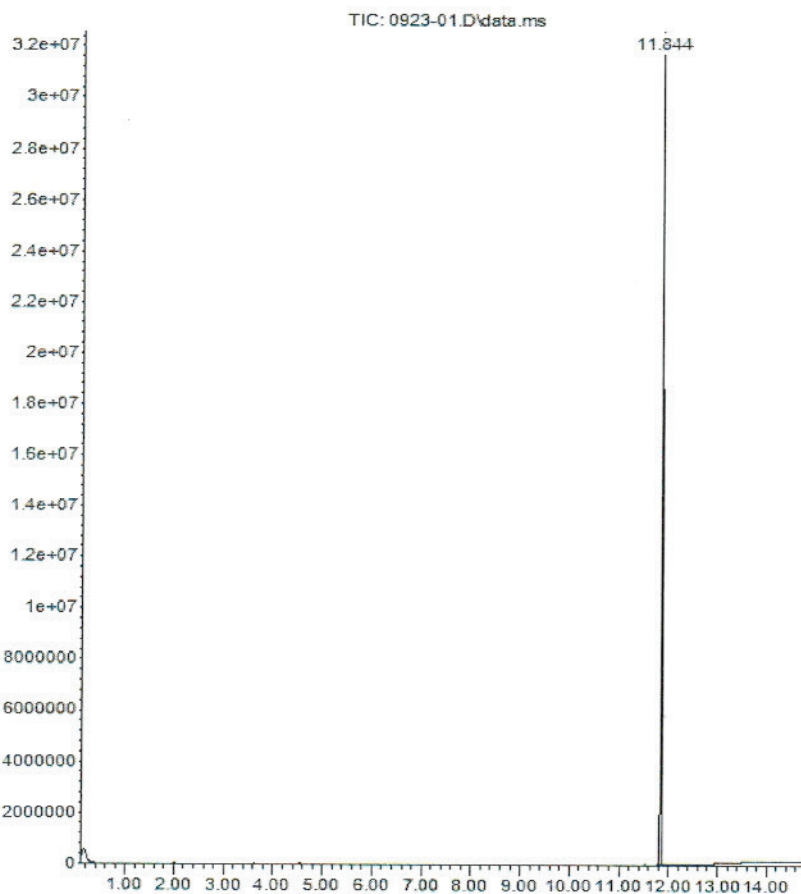


## CERTIFICATE OF ANALYSIS

### 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





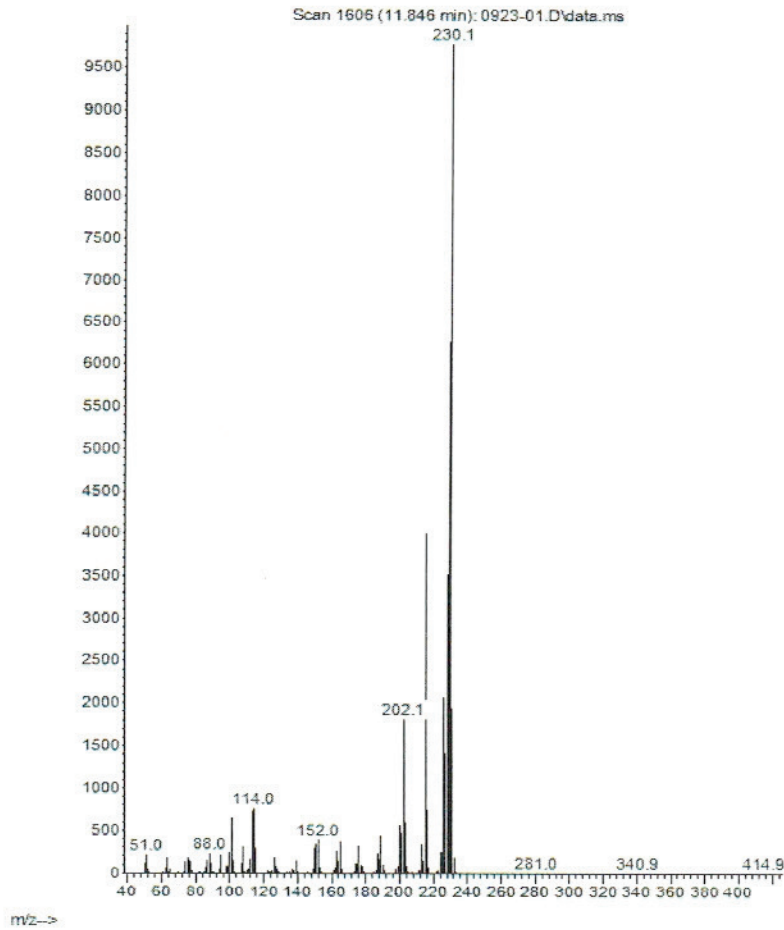
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## CERTIFICATE OF ANALYSIS

### 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](mailto:info@chemservice.com) • [www.chemservice.com](http://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



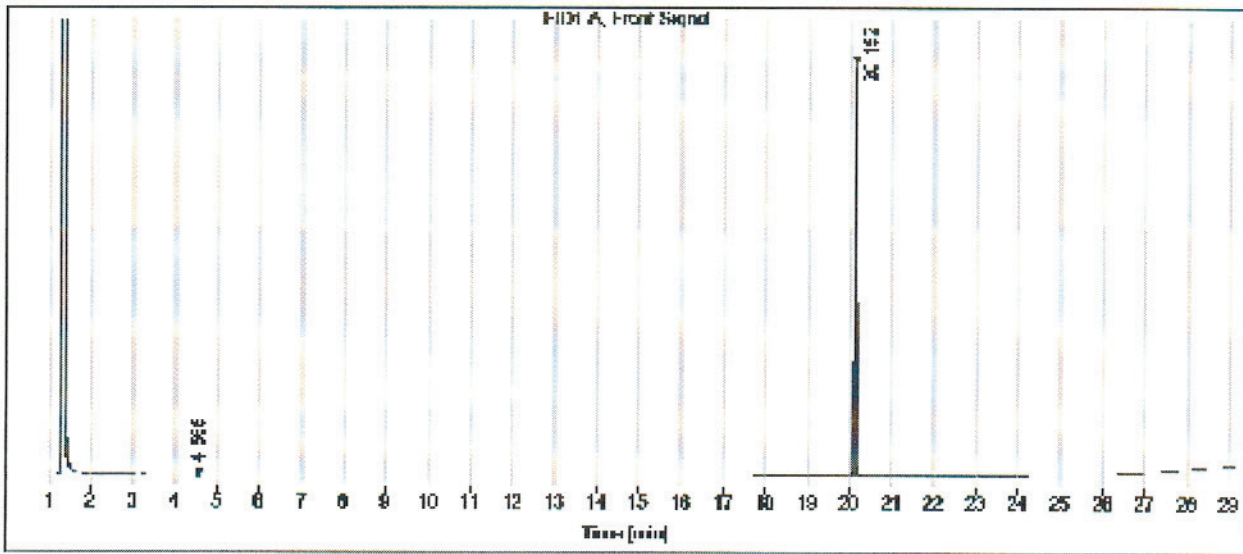
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 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

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

Certified  
Reference  
Material

Diesel Fuel No. 2

## 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

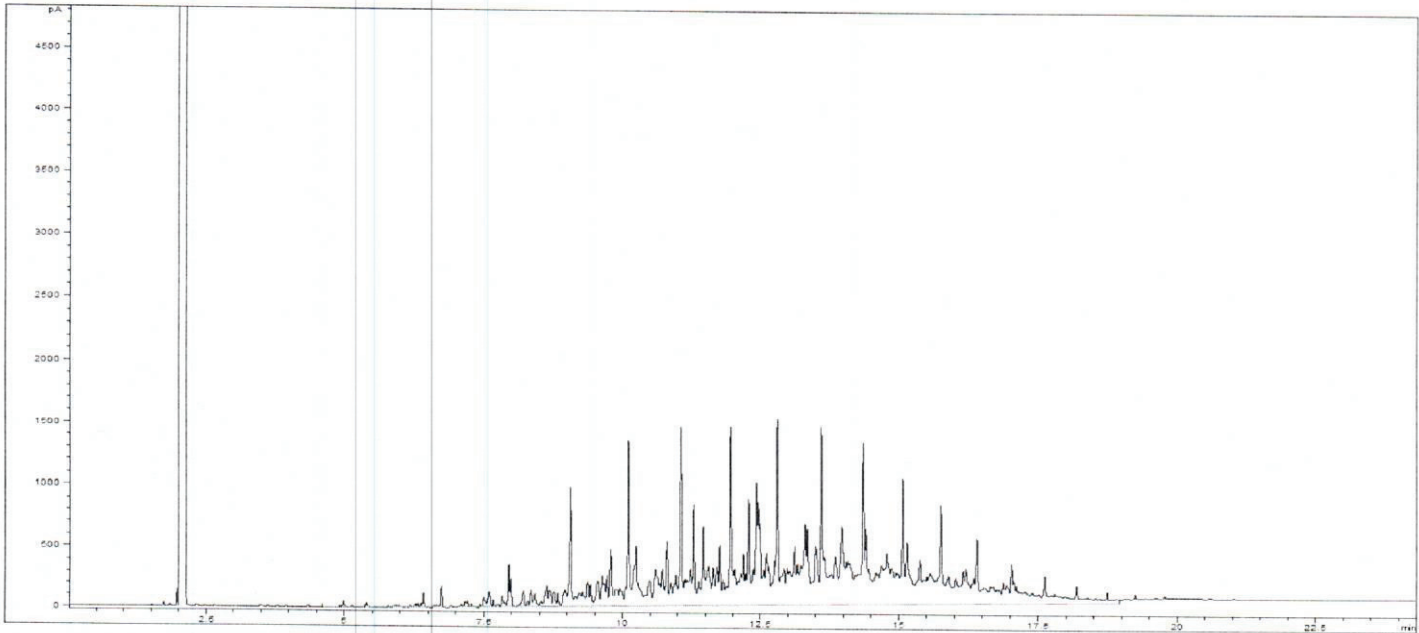
Rec'd: 10/12/2021

Energy Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

## Certified Values

Analyte	Certified Value <sup>1,4</sup>	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: H<sub>2</sub>, 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.

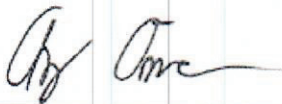
**Traceability:** The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual 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.

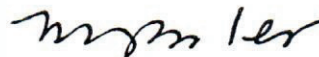
Expiration is at end of month given on certificate and label.

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: 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  
Date Prepared: 4/1/2021  
Date Expires: 1/31/2028  
Department: dropr  
Vendor: Restek  
Lot Number: A0166827  
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 (	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:**

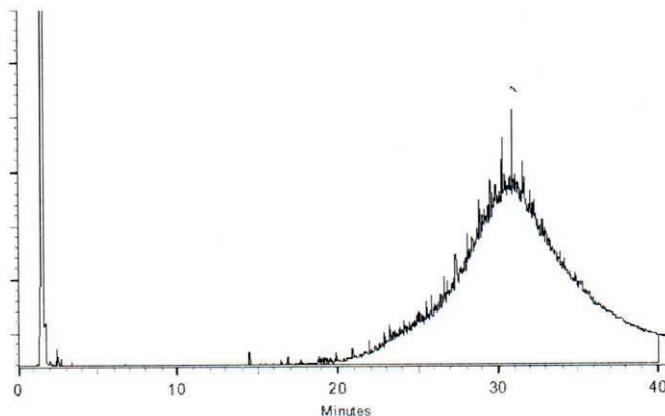
250°C

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

### Certified Uncertainty Value Notes:

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

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

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

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

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

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

### Manufacturing Notes:

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

### Handling Notes:

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



# 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	4/6/26

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

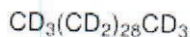
A Triacontane-d62

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: \_\_\_\_\_

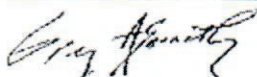
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

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: 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:

Type: Primary  
BY: Jillian L Bostwick  
Status: New

Comments: Used to Make 2nd Source Standards For Alaska AK103 RRO Method and Oil

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Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 40 Motor Oil	14231		mL	9/1/26

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](mailto:info@chemservice.com) • [www.chemservice.com](http://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

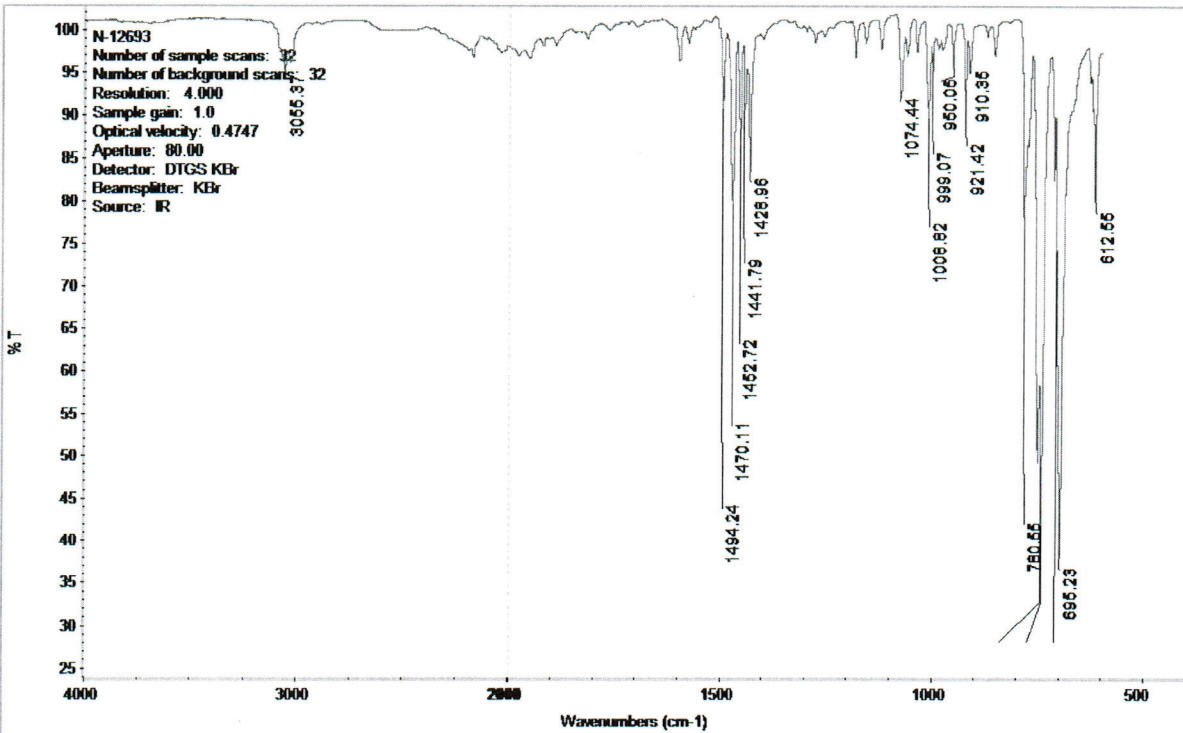
COA Form  
Revision 3 (3/2015)



## 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

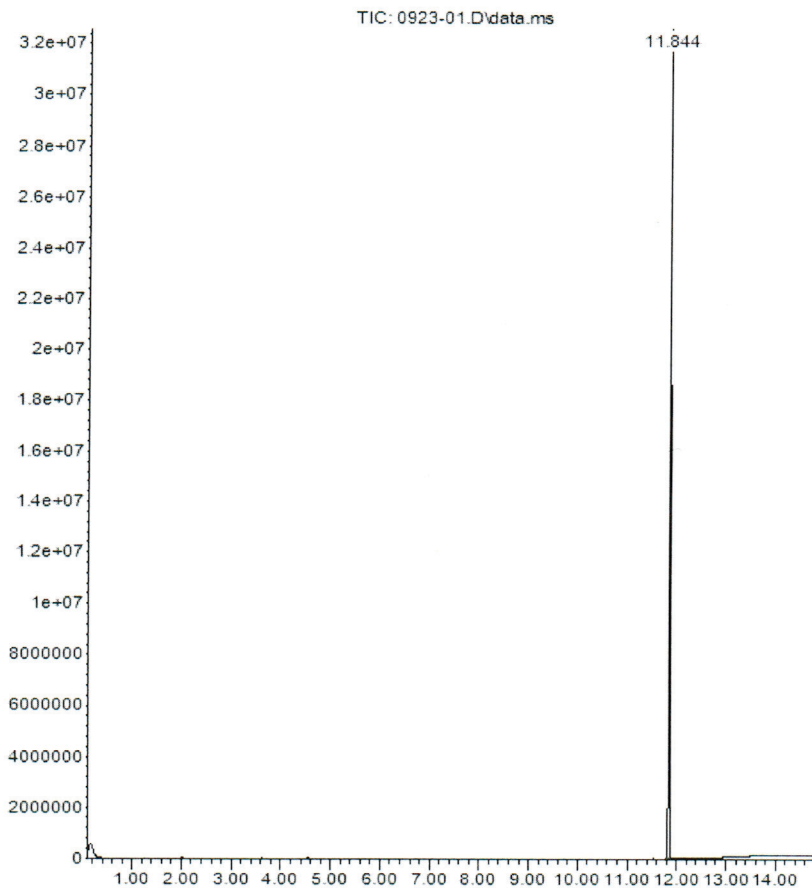
ERIN.M Mon Sep 23 10:55:51 2019

## 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



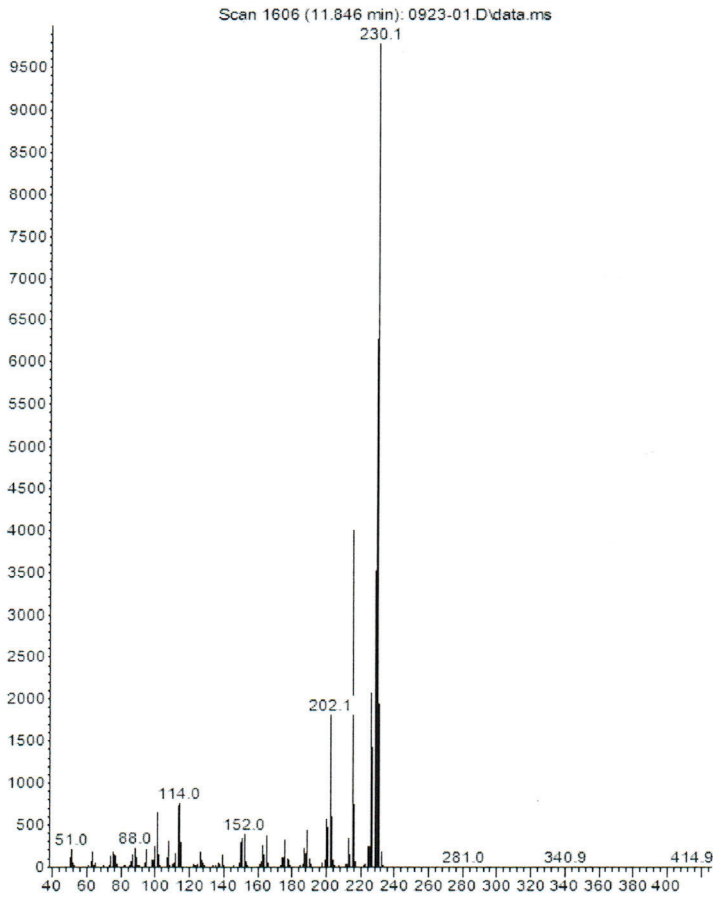


## CERTIFICATE OF ANALYSIS

### 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



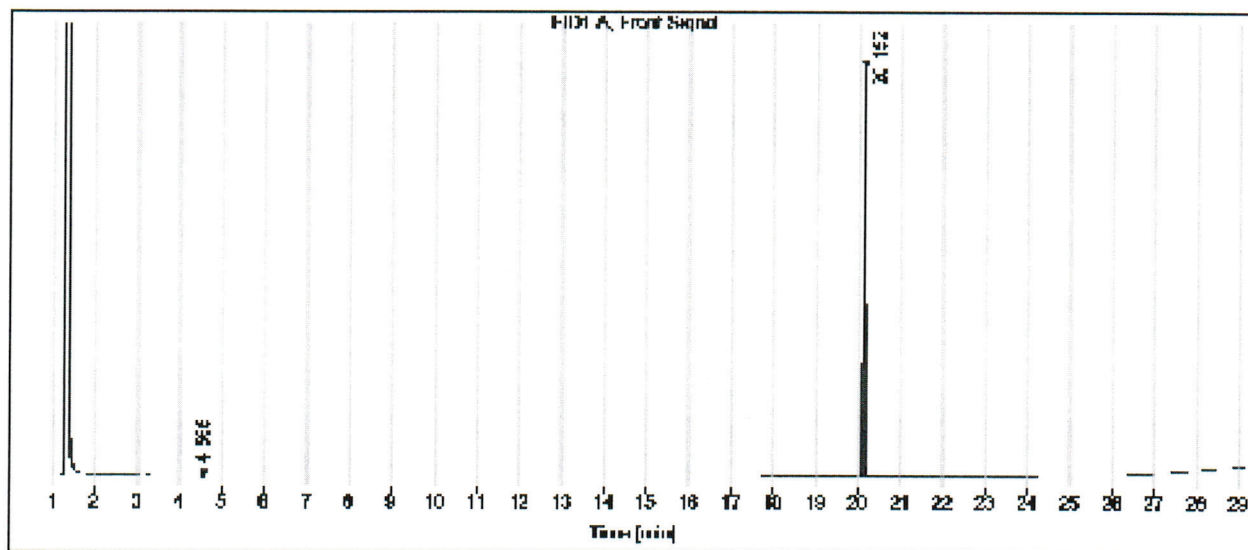
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

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: DRO211101B  
Standard Name: Triacotane SURR 1000 ug/mL  
Date Prepared: 11/1/2021  
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: Jillian L Bostwick  
Status: New

---

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC344	14448	2	mL	8/26/

**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

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: \_\_\_\_\_

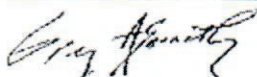
Triacontane-d62-98 atom % D

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.