Energy Laboratories Inc

ANALYTICAL RUN Summary

03-Nov-21

Run ID GCFID-HP5-B_211102A

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

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

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822192	CCV_1102HP50	HC-8015-DRO-	CCV		11/2/2021 8:31:3	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Total Extractable Hydrocarbons	A	mg/L		3.665751		15	0	0	0.0749	0.3	50	24%	80	120	0%	S
o-Terphenyl	S	mg/L		0.2015393		0.2	0	0	0.000429	0.002	0	101%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822193	CCV_1102HP50	HC-8015-DRO-	CAL1		11/2/2021 9:57:0	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.00195342		0.002	0	0	0.000429	0.002	0	98%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822194	CCV_1102HP50	HC-8015-DRO-	CAL2		11/2/2021 10:39:	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.04992196		0.05	0	0	0.000429	0.002	0	100%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822195	CCV_1102HP50	HC-8015-DRO-	CAL3		11/2/2021 11:22:	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.1939565		0.2	0	0	0.000429	0.002	0	97%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822196	CCV_1102HP50	HC-8015-DRO-	CAL4		11/2/2021 12:05:	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.5113316		0.5	0	0	0.000429	0.002	0	102%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822197	CCV_1102HP50	HC-8015-DRO-	CAL5		11/2/2021 12:49:	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		1.032406		1	0	0	0.000429	0.002	0	103%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822198	CCV_1102HP51	HC-8015-DRO-	CAL1		11/2/2021 1:32:0	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Total Extractable Hydrocarbons	A	mg/L		0.1551854		0.15	0	0	0.0749	0.3	50	103%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822199	CCV_1102HP51	HC-8015-DRO-	CAL2		11/2/2021 2:15:0	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Total Extractable Hydrocarbons	A	mg/L		3.698073		3.75	0	0	0.0749	0.3	50	99%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822200	CCV_1102HP51	HC-8015-DRO-	CAL3		11/2/2021 2:58:2	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Total Extractable Hydrocarbons	A	mg/L		15.26249		15	0	0	0.0749	0.3	50	102%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822201	CCV_1102HP51	HC-8015-DRO-	CAL4		11/2/2021 3:41:3	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Total Extractable Hydrocarbons	A	mg/L		36.59341		37.5	0	0	0.0749	0.3	50	98%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822202	CCV_1102HP51	HC-8015-DRO-	CAL5		11/2/2021 4:24:5	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Total Extractable Hydrocarbons	A	mg/L		49.2977		50	0	0	0.0749	0.3	50	99%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14822203	CCV_1102HP51	HC-8015-DRO-	ICV		11/2/2021 5:51:3	1	R369667		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Total Extractable Hydrocarbons	A	mg/L		14.98994		15	0	0	0.0749	0.3	50	100%	80	120	0%	

Write Sequence	Insert Entries(Have the first cell for entries selecte						
Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
:\org\HP5\DAT\HP5110221_b\1102HP5.03r	CCV_1102HP508r, DRO ;1102HP5 , DRO211025A	G:\Org\HP5\Methods\DC_8015-IA-L%.met	1	1	1	1	0
:\org\HP5\DAT\HP5110221_b\1102HP5.04r	DCM-Baseline Check-V04	G:\Org\HP5\Methods\DR_8015-HP-LEXP.met	1	1	1	1	0
:\org\HP5\DAT\HP5110221_b\1102HP5.05r	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
:\org\HP5\DAT\HP5110221_b\1102HP5.06r	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
:\org\HP5\DAT\HP5110221_b\1102HP5.07r	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
:\org\HP5\DAT\HP5110221_b\1102HP5.08r	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
:\org\HP5\DAT\HP5110221_b\1102HP5.09r	CCV_1102HP509r, CAL5 ;1102HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO211101A + 750 DCM(14408)	G:\Org\HP5\Methods\DS_8015-IA-L#.met	1	1	1	1	0
:\org\HP5\DAT\HP5110221_b\1102HP5.10r	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
:\org\HP5\DAT\HP5110221_b\1102HP5.11r	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
:\org\HP5\DAT\HP5110221_b\1102HP5.12r	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
:\org\HP5\DAT\HP5110221_b\1102HP5.13r	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
:\org\HP5\DAT\HP5110221_b\1102HP5.14r	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
:\org\HP5\DAT\HP5110221_b\1102HP5.15r	DCM-Baseline Check-V15	G:\Org\HP5\Methods\DR_8015-HP-LEXP.met	1	1	1	1	0
:\org\HP5\DAT\HP5110221_b\1102HP5.16r	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

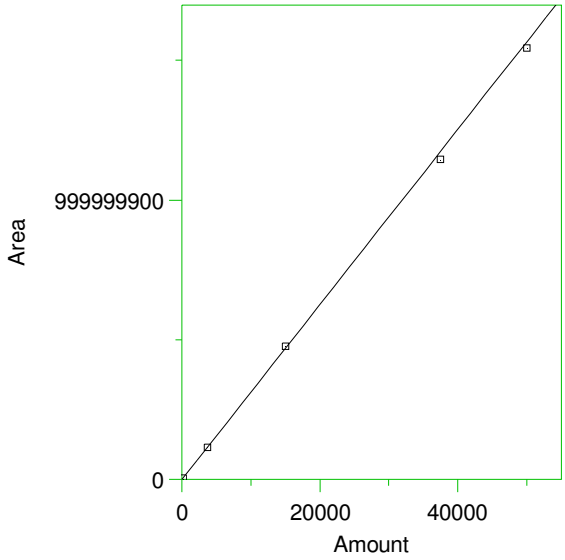
Creator: AMN 11/02/2021
Description: 8015C-DRO. New ICal Per 1102HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

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

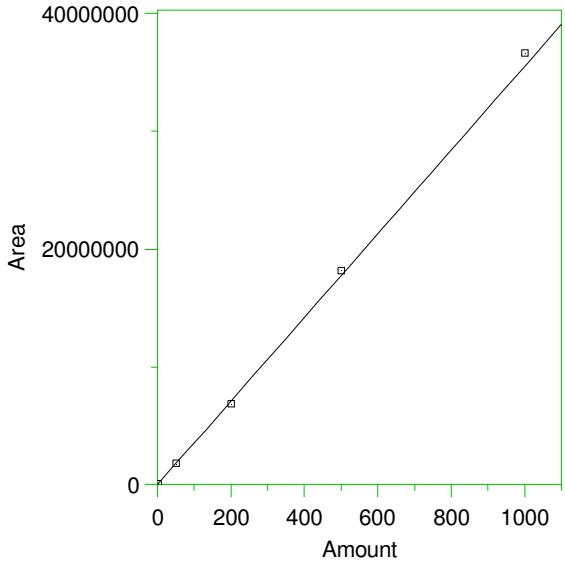
Y = 31353.19 X + 0

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

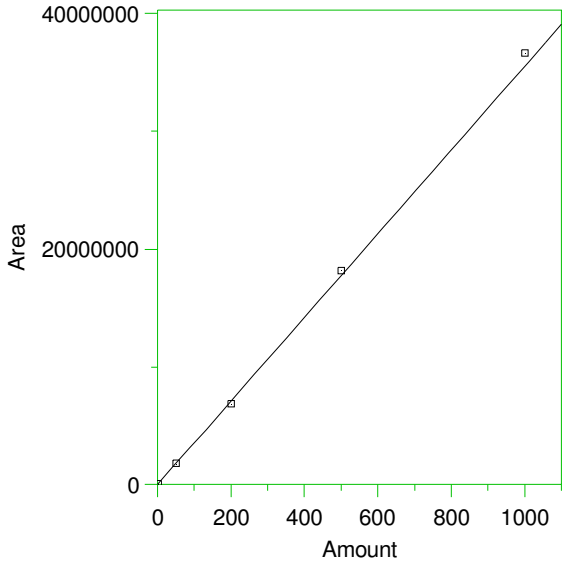
Single peak quantification by area

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

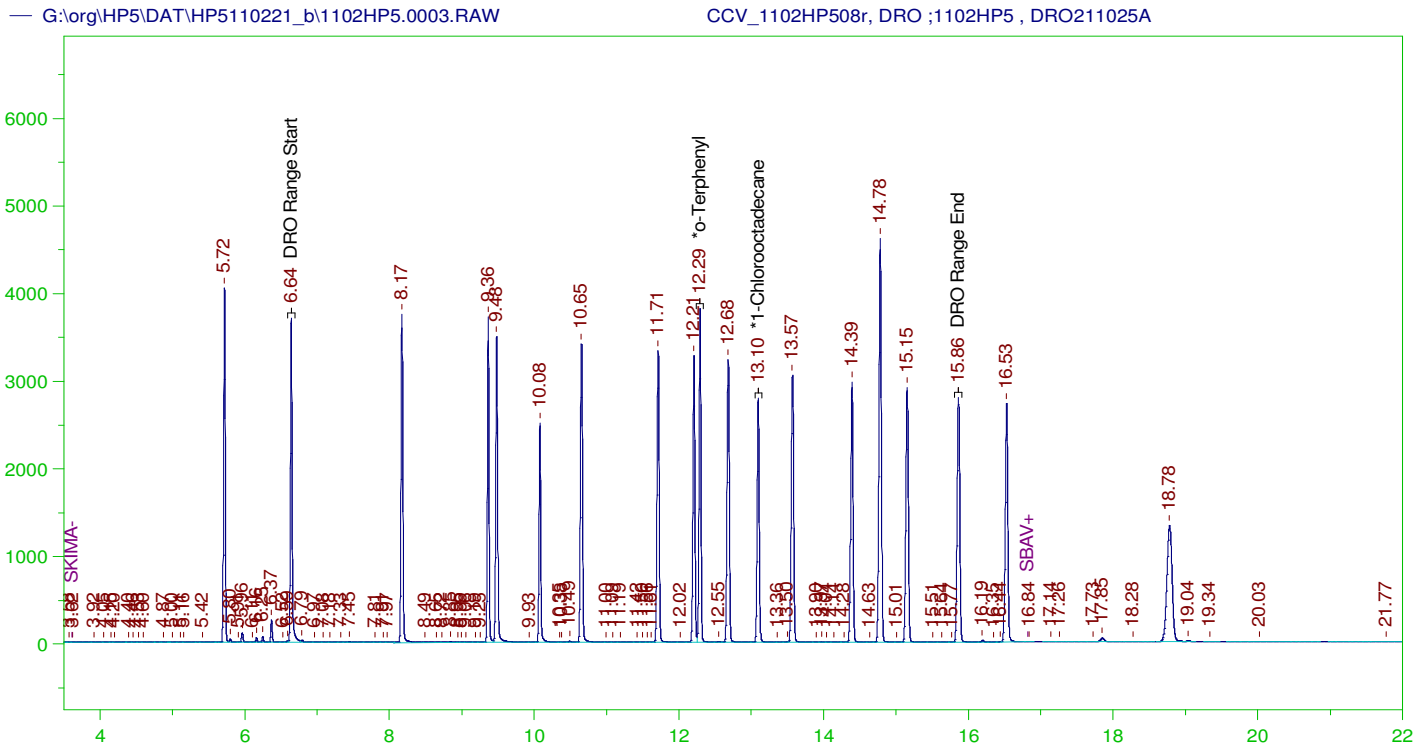
Single peak quantification by area

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



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_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

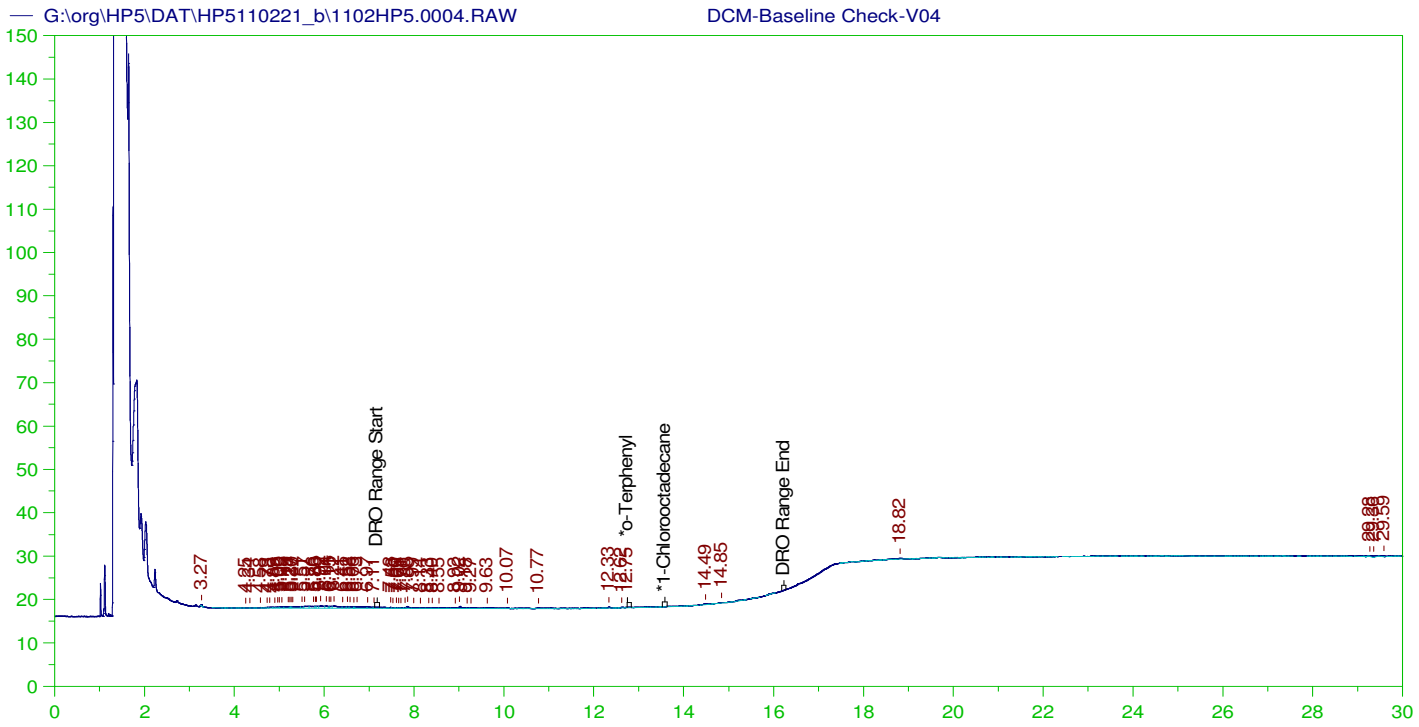
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.292	200.	201.539	100.77	-
*1-Chlorooctadecane	13.095	200.	163.573	81.79	-

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



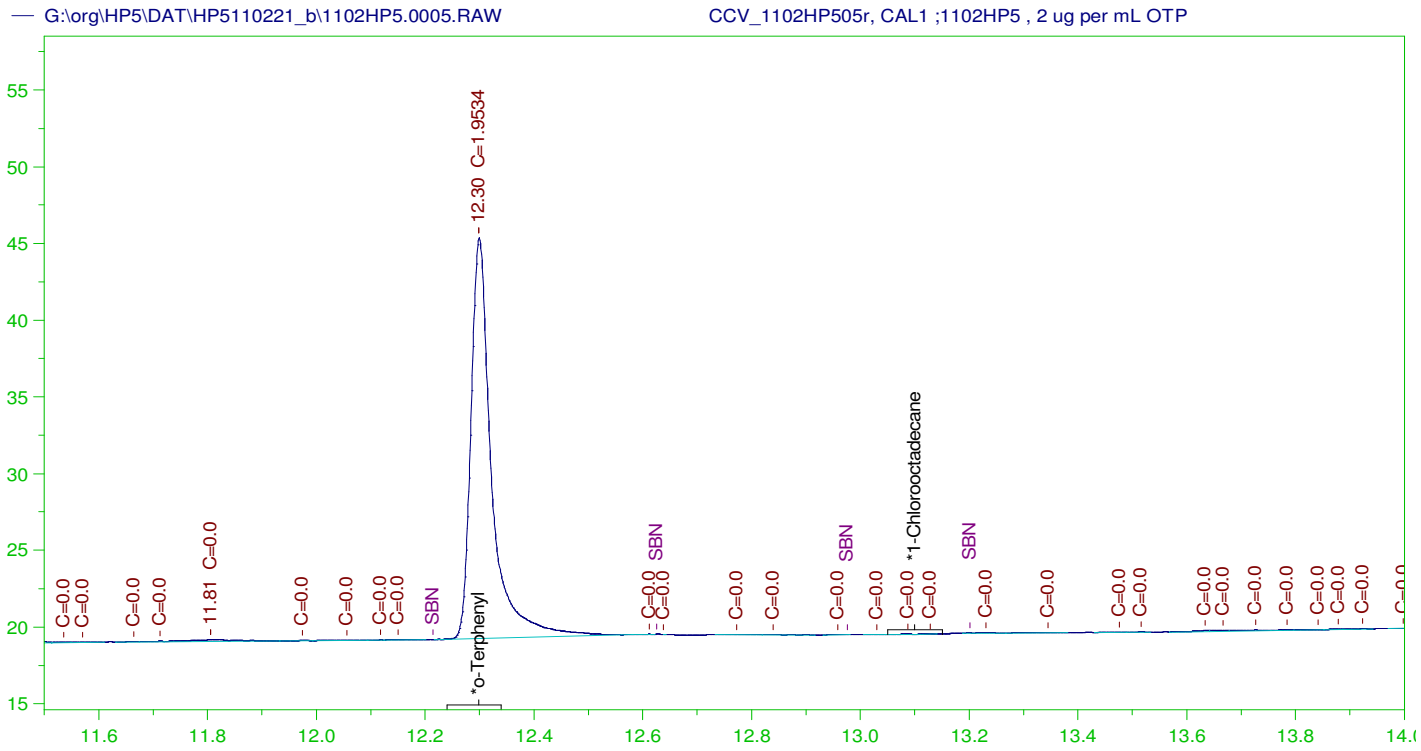
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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



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

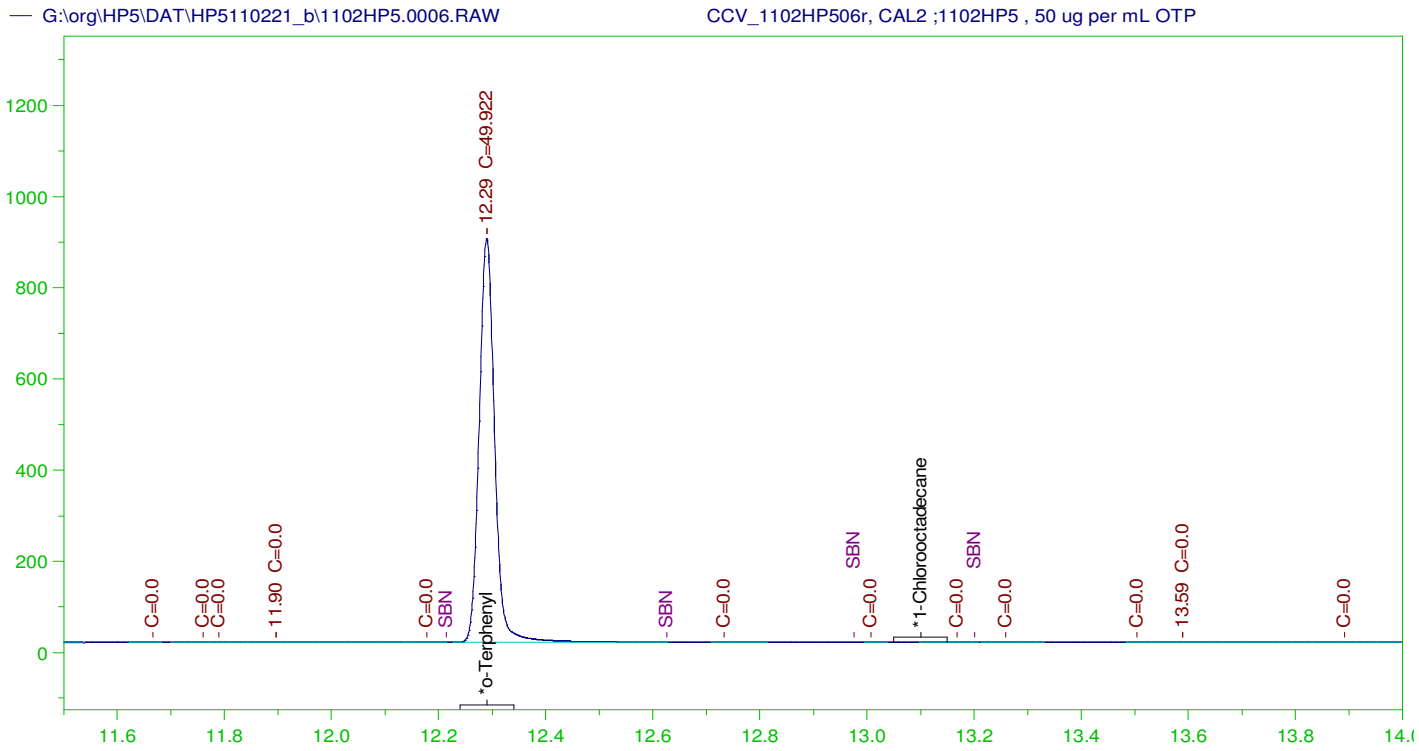
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.299	200.	1.953	.98	-
*1-Chlorooctadecane	15.561	200.	.	.	-

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



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

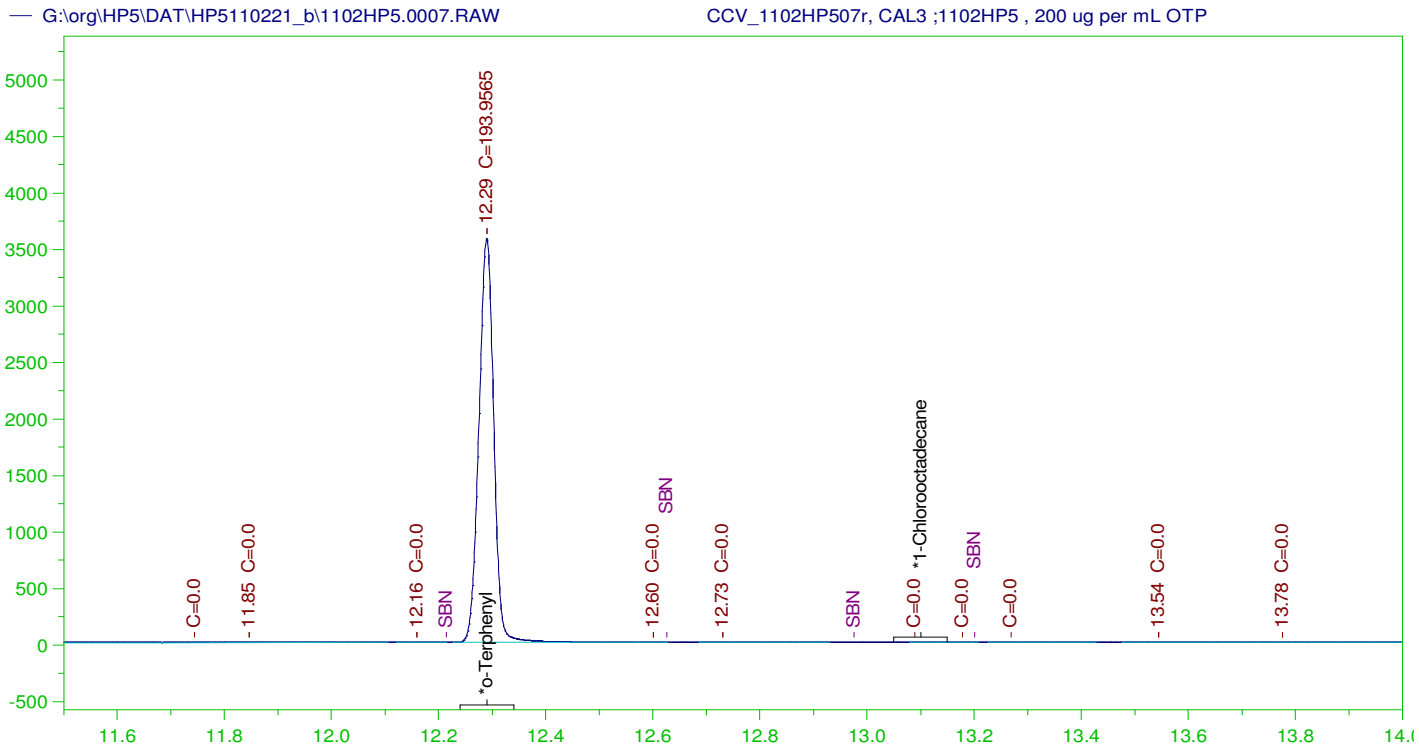
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.29	200.	49.922	24.96	-
*1-Chlorooctadecane	15.697	200.	.	.	-

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



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

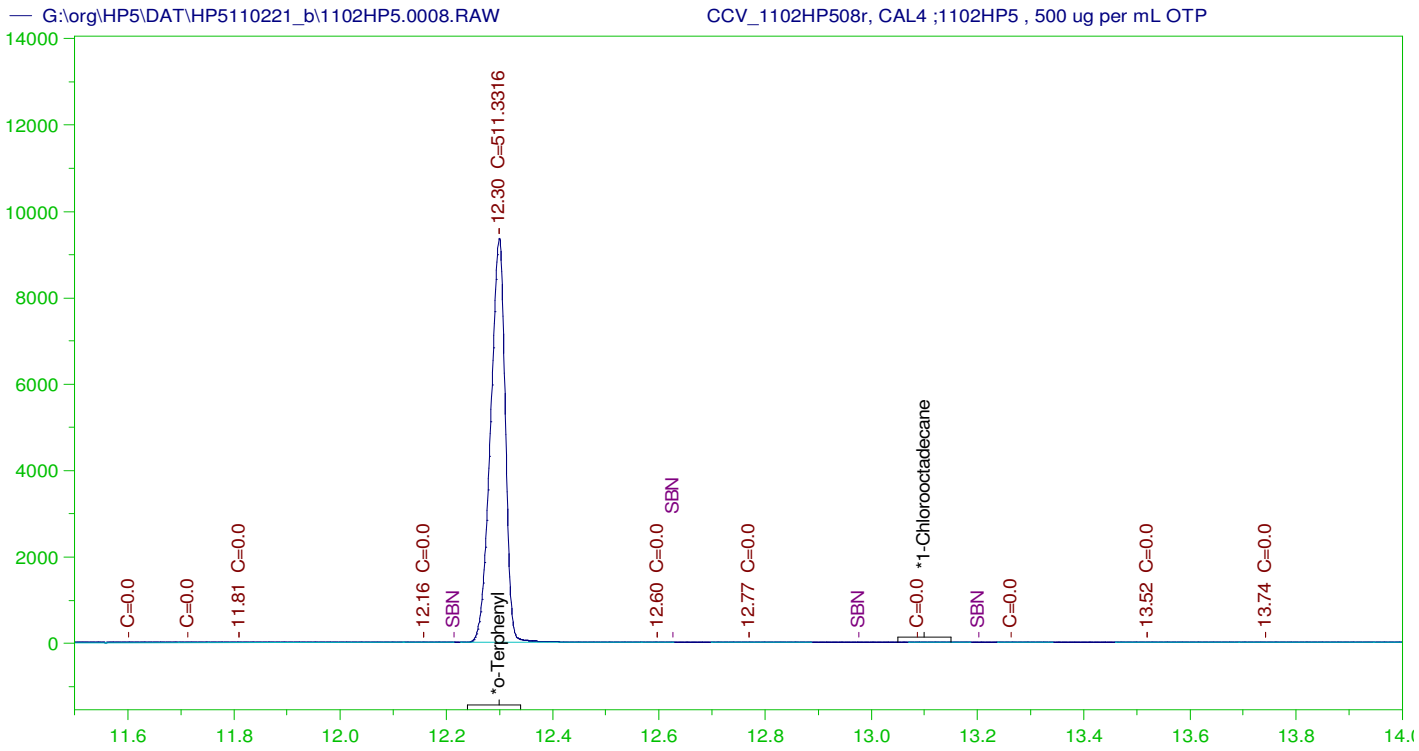
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.29	200.	193.957	96.98	-
*1-Chlorooctadecane	15.779	200.	.	.	-

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

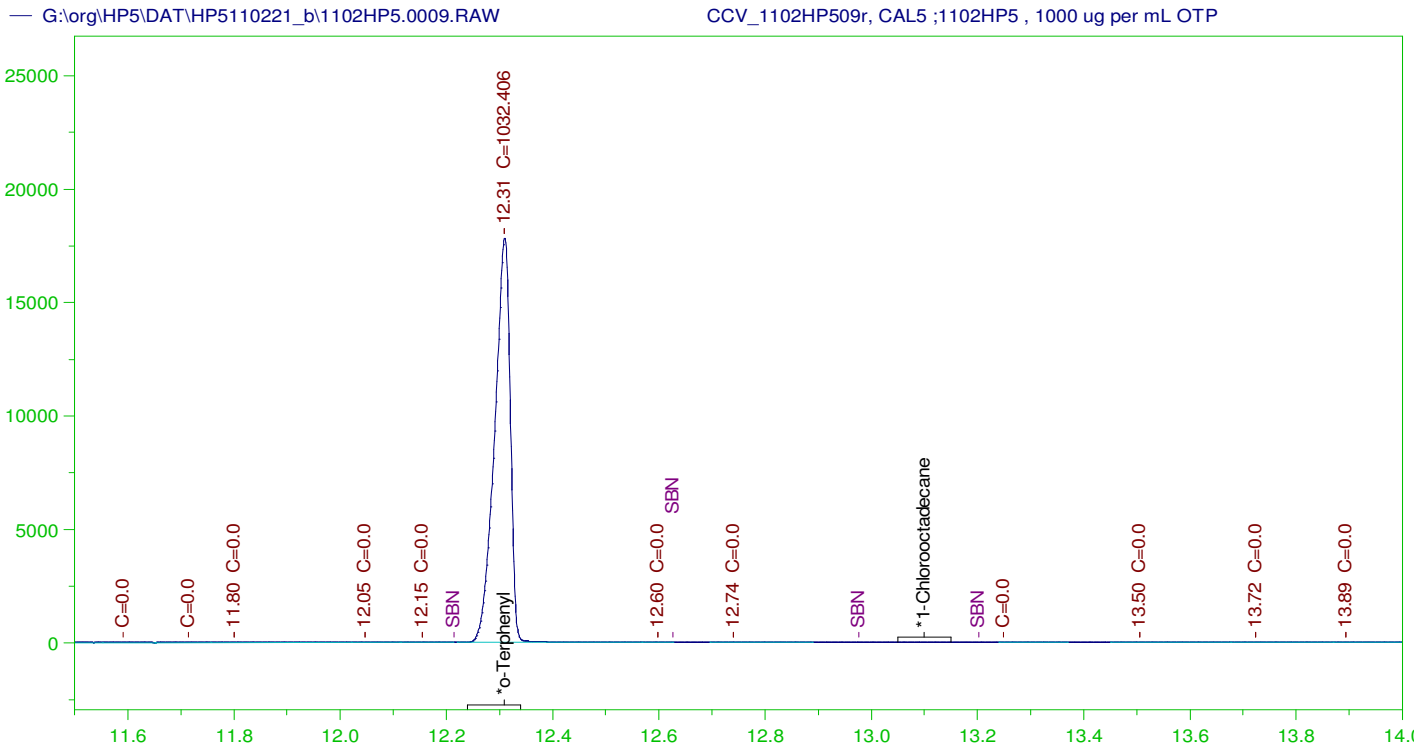
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.3	200.	511.332	255.67	-
*1-Chlorooctadecane	15.798	200.	.	.	-

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



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

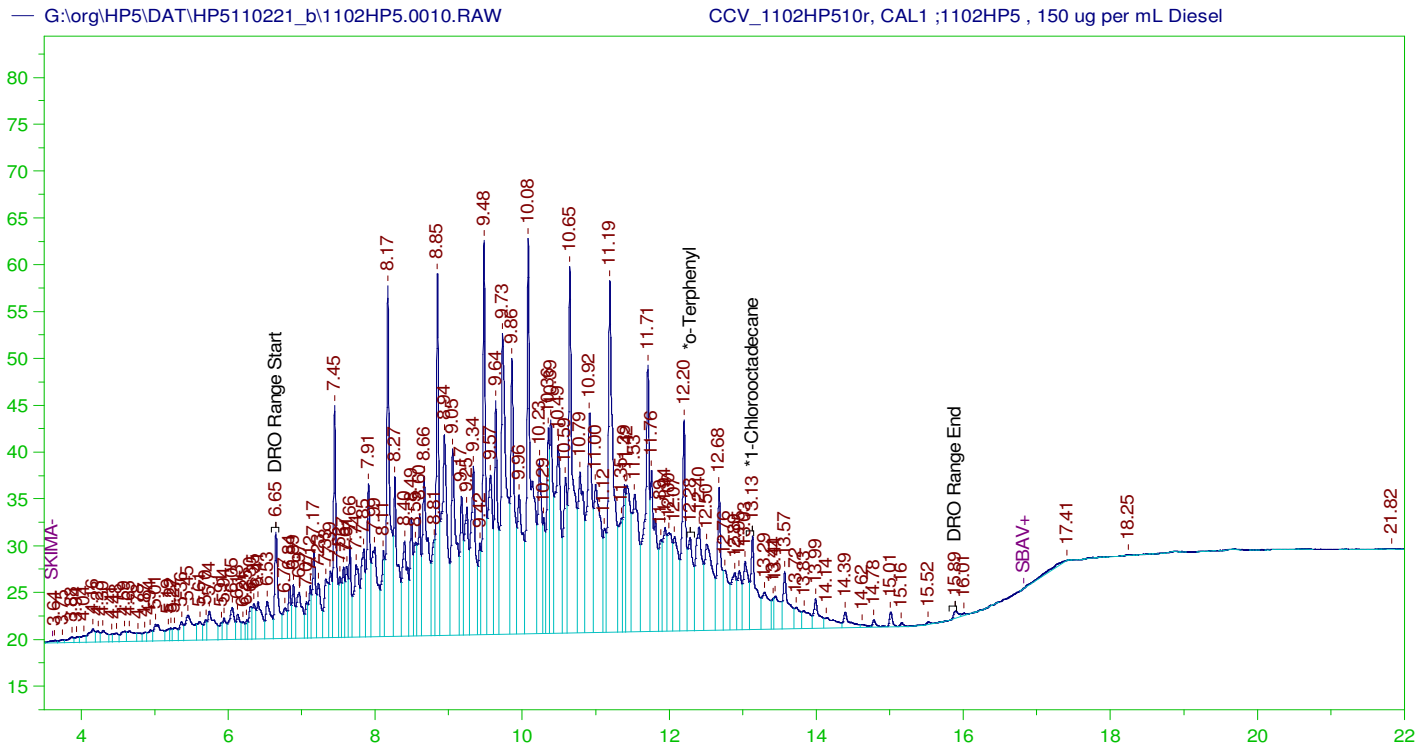
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.31	200.	1032.406	516.2	-
*1-Chlorooctadecane	15.803	200.	.	.	-

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



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

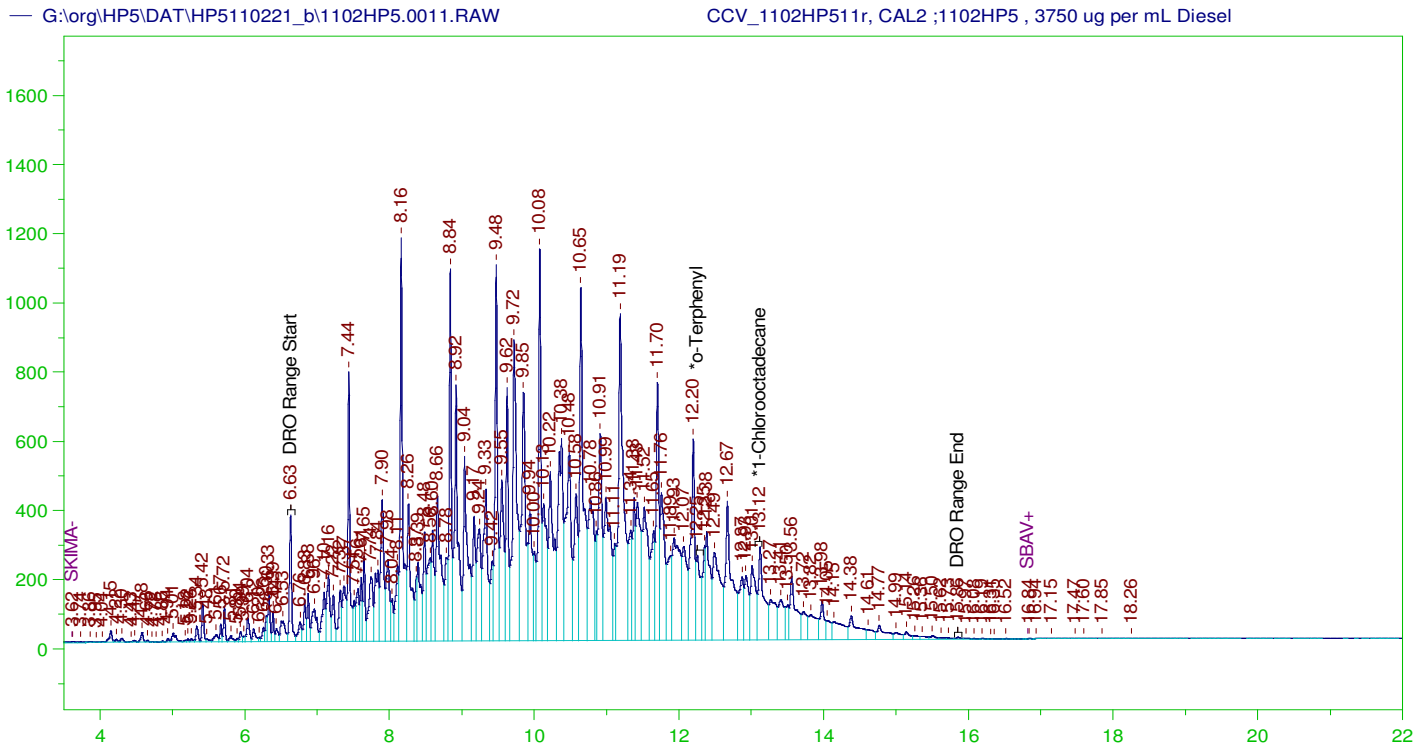
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.285	200.	1.416	.71	-
*1-Chlorooctadecane	13.13	200.	1.44	.72	-

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



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

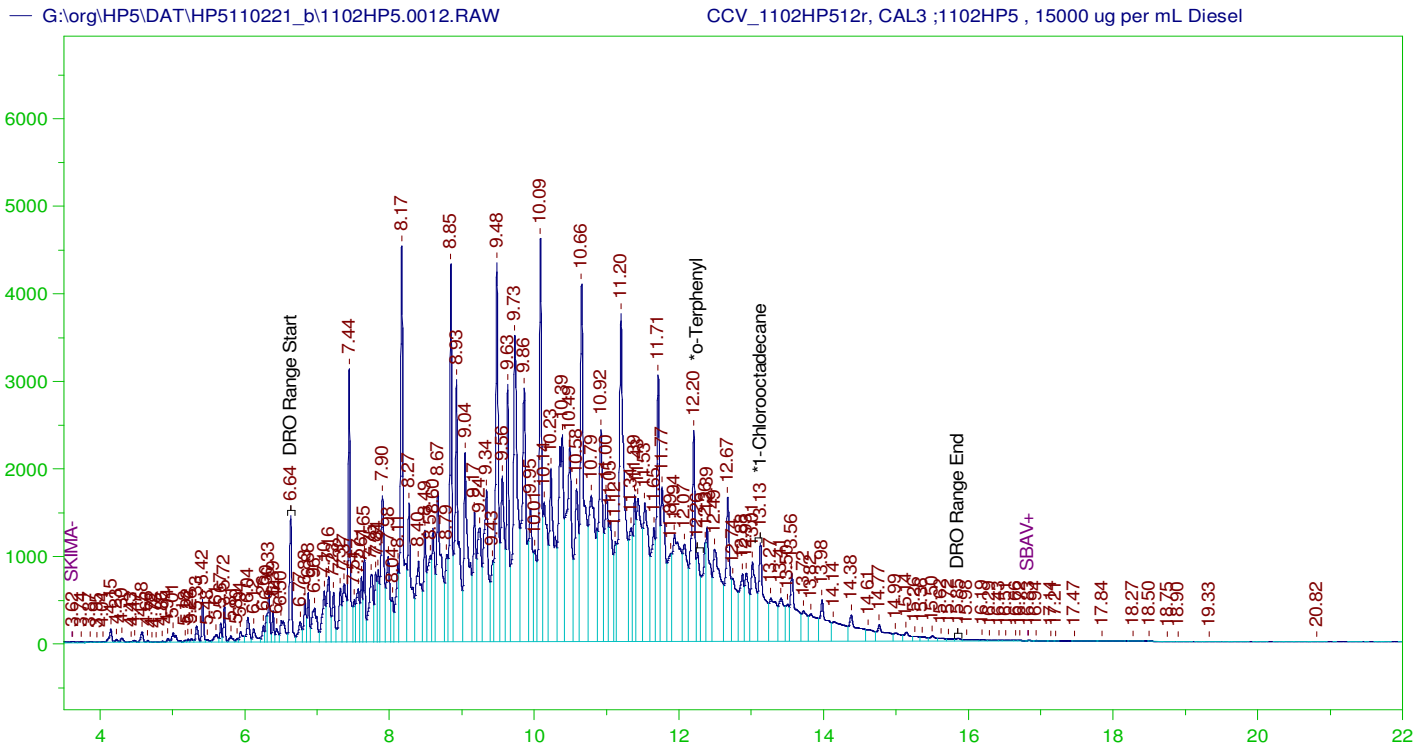
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.252	200.	28.988	14.49	-
*1-Chlorooctadecane	13.122	200.	39.19	19.59	-

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



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

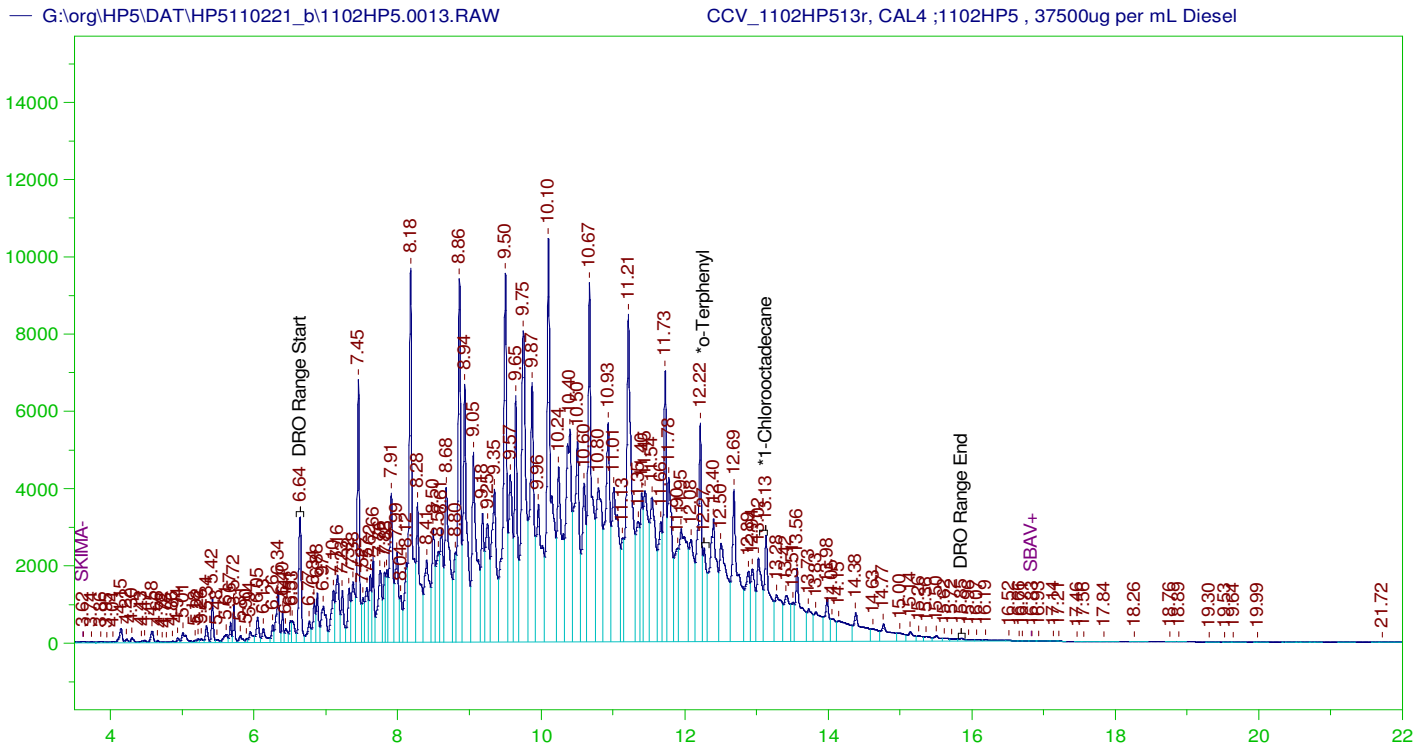
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.257	200.	92.35	46.18	-
*1-Chlorooctadecane	13.125	200.	158.994	79.5	-

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



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

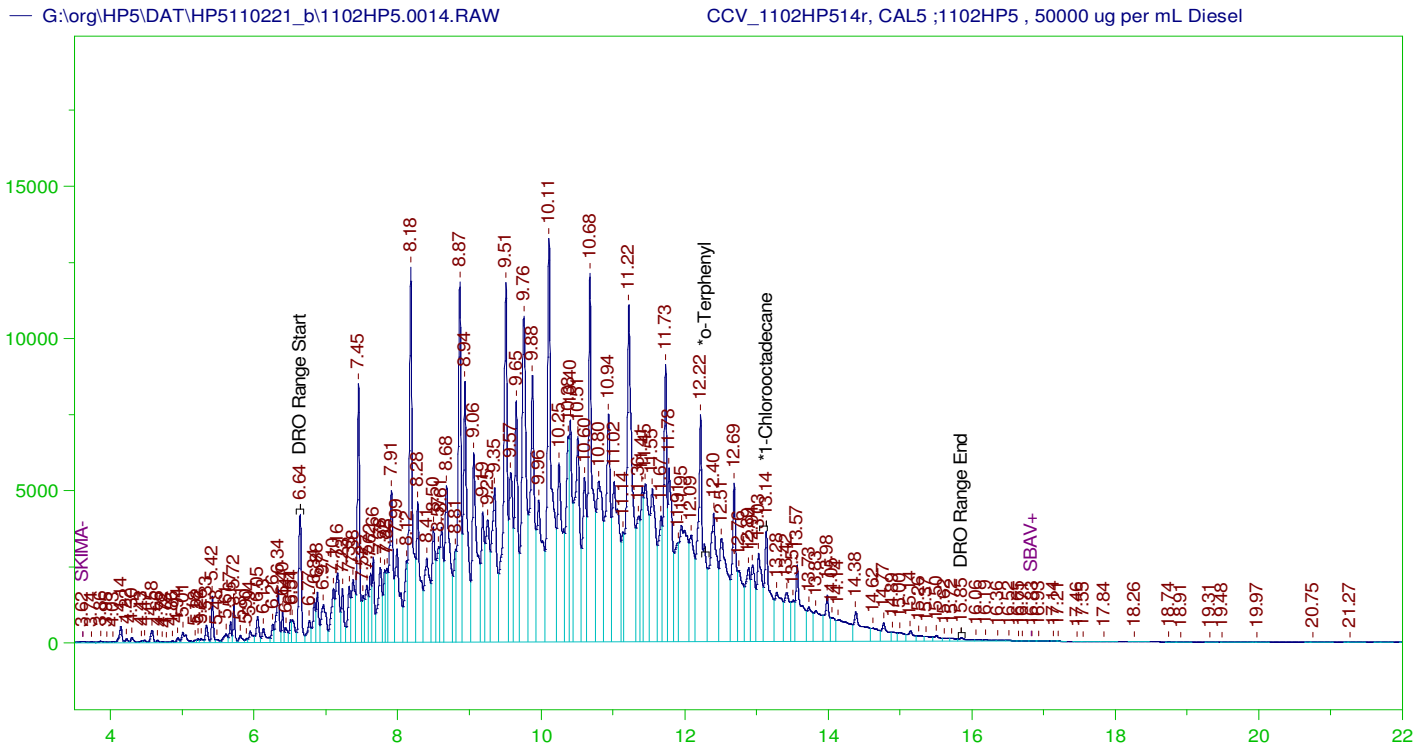
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.268	200.	238.956	119.48	-
*1-Chlorooctadecane	13.133	200.	386.008	193.	-

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



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	-

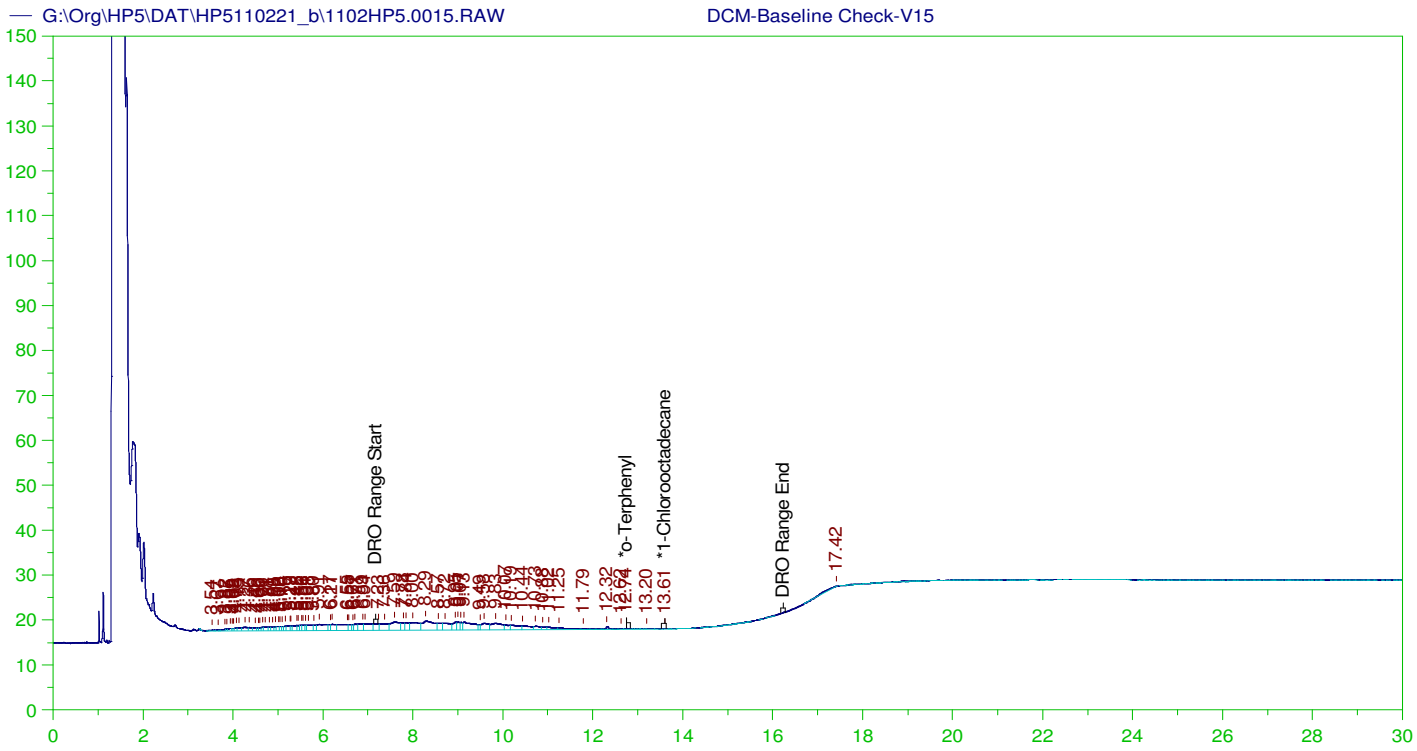
DRO Area:1.507978E+09 DRO Amount: 48096.49
TEH Area:1.54564E+09 TEH Amount: 49297.7

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

G:\org\HP5\dat\HP5110221_b\Review\014_CCV_1102HP514r_DC_8015-IA-L%.xls



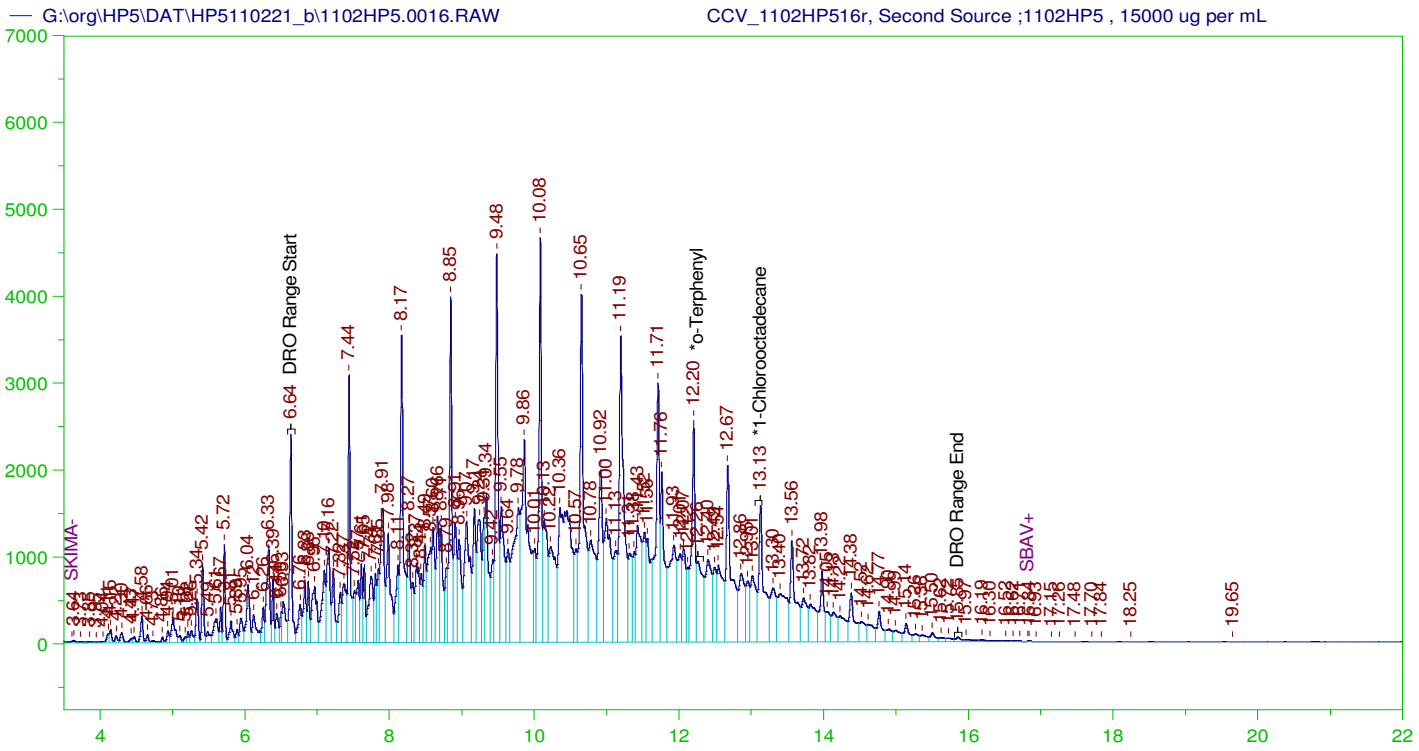
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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	Insert Entries(Have the first cell for entries selecte / Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manul Integrations
G:\org\HP5\DAT\HP5110221_b\1102HP5.03r	CCV_1102HP508r, DRO ;1102HP5 , DRO211025A	G:\Org\HP5\Methods\DC_8015-IA-L%.met	1	1	1	1	0	No integrations
G:\org\HP5\DAT\HP5110221_b\1102HP5.04r	DCM-Baseline Check-V04	G:\Org\HP5\Methods\DR_8015-HP-LEXP.met	1	1	1	1	0	No integrations
G:\org\HP5\DAT\HP5110221_b\1102HP5.05r	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 Basline 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.
G:\org\HP5\DAT\HP5110221_b\1102HP5.06r	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 Basline 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.
G:\org\HP5\DAT\HP5110221_b\1102HP5.07r	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 Basline 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.
G:\org\HP5\DAT\HP5110221_b\1102HP5.08r	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 Basline 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.
G:\org\HP5\DAT\HP5110221_b\1102HP5.09r	CCV_1102HP509r, CAL5 ;1102HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO211101A + 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 Basline 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.
G:\org\HP5\DAT\HP5110221_b\1102HP5.10r	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 basline. Assigned Set Baseline All Valley on at 16.83
G:\org\HP5\DAT\HP5110221_b\1102HP5.11r	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 basline. Assigned Set Baseline All Valley on at 17.5
G:\org\HP5\DAT\HP5110221_b\1102HP5.12r	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 basline. Assigned Set Baseline All Valley on at 17.5
G:\org\HP5\DAT\HP5110221_b\1102HP5.13r	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 basline. Assigned Set Baseline All Valley on at 17.5
G:\org\HP5\DAT\HP5110221_b\1102HP5.14r	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 basline. Assigned Set Baseline All Valley on at 17.5
G:\org\HP5\DAT\HP5110221_b\1102HP5.15r	DCM-Baseline Check-V15	G:\Org\HP5\Methods\DR_8015-HP-LEXP.met	1	1	1	1	0	No integrations
G:\org\HP5\DAT\HP5110221_b\1102HP5.16r	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 basline. Assigned Set Baseline All Valley on at 17.5

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.11.09 12:32:44 -07:00

Energy Laboratories Inc

ANALYTICAL RUN Summary

31-Mar-21

Run ID GCFID-HP5-B_210218B

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

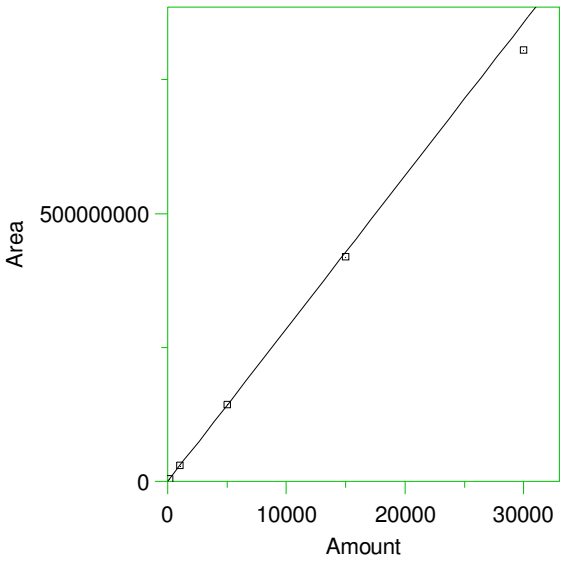
Creator: AMN 3/31/2021
Description: DRO-8015-Oil range. New ICal Per 0218HP5 (2021)-2 uL Inj.; COD added using OTP RFs
Reason for change:

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

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

All levels are normal data points.

1 DRO Range Start



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

Single peak quantification by area

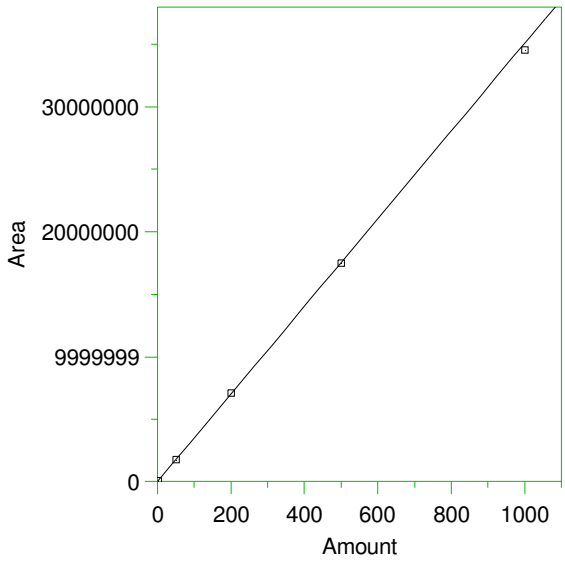
Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin

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

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

2 *o-Terphenyl



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

Single peak quantification by area

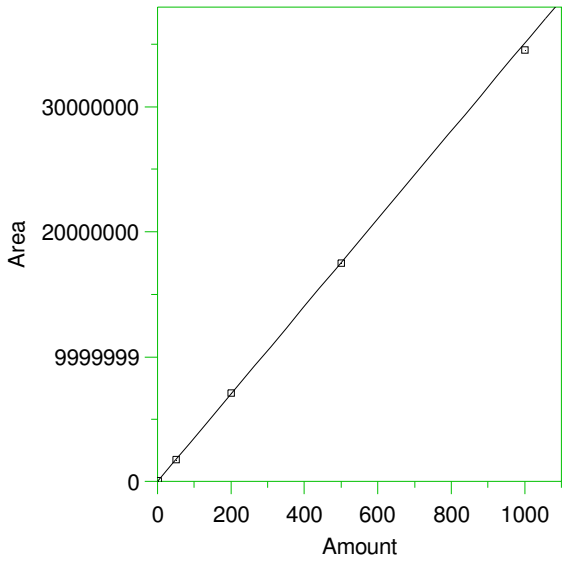
Y = 35071.26 X + 0

Average CF fit with equal weighting, forced to origin

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

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

3 *1-Chlorooctadecane



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

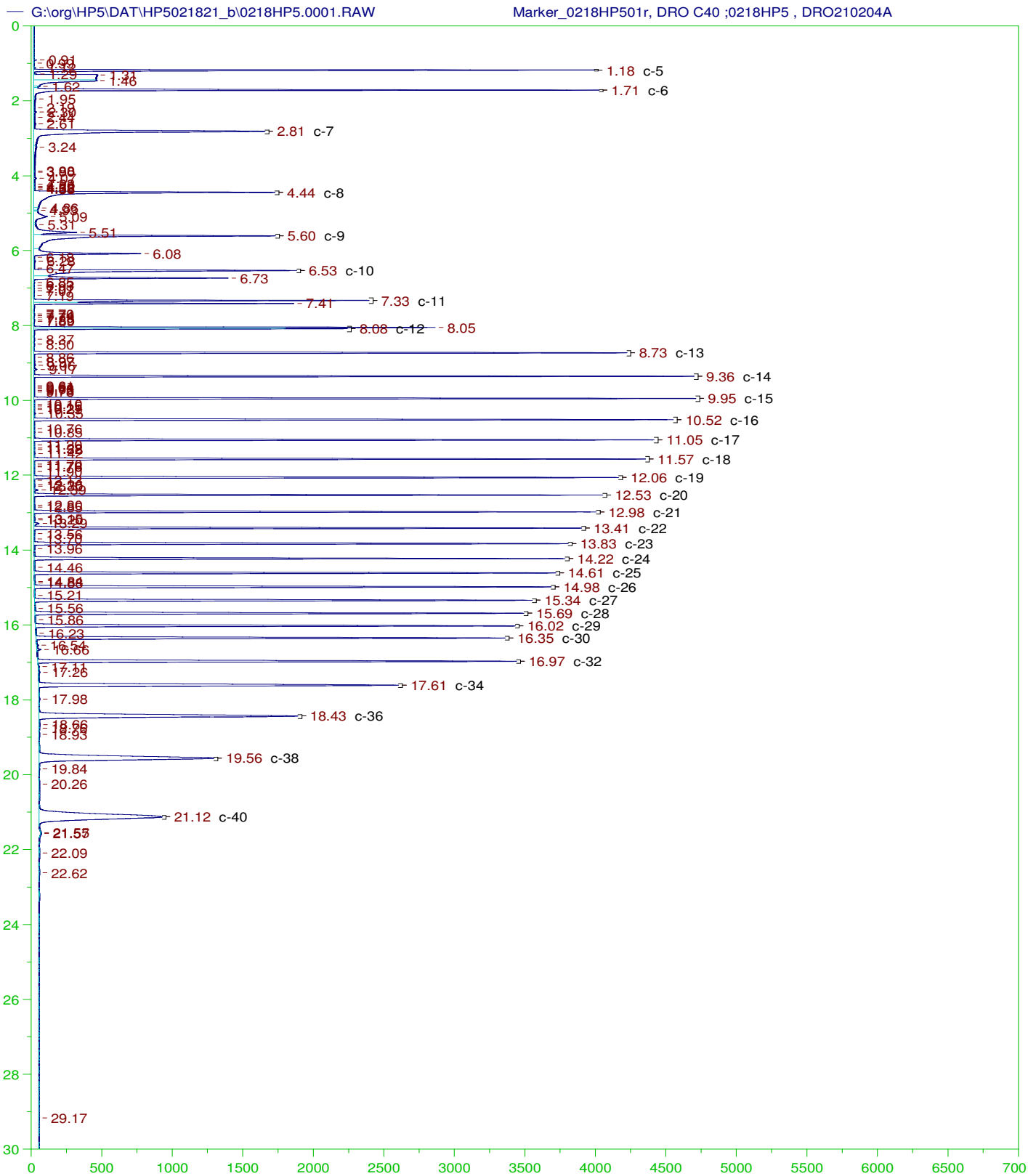
Single peak quantification by area

Y = 35071.26 X + 0

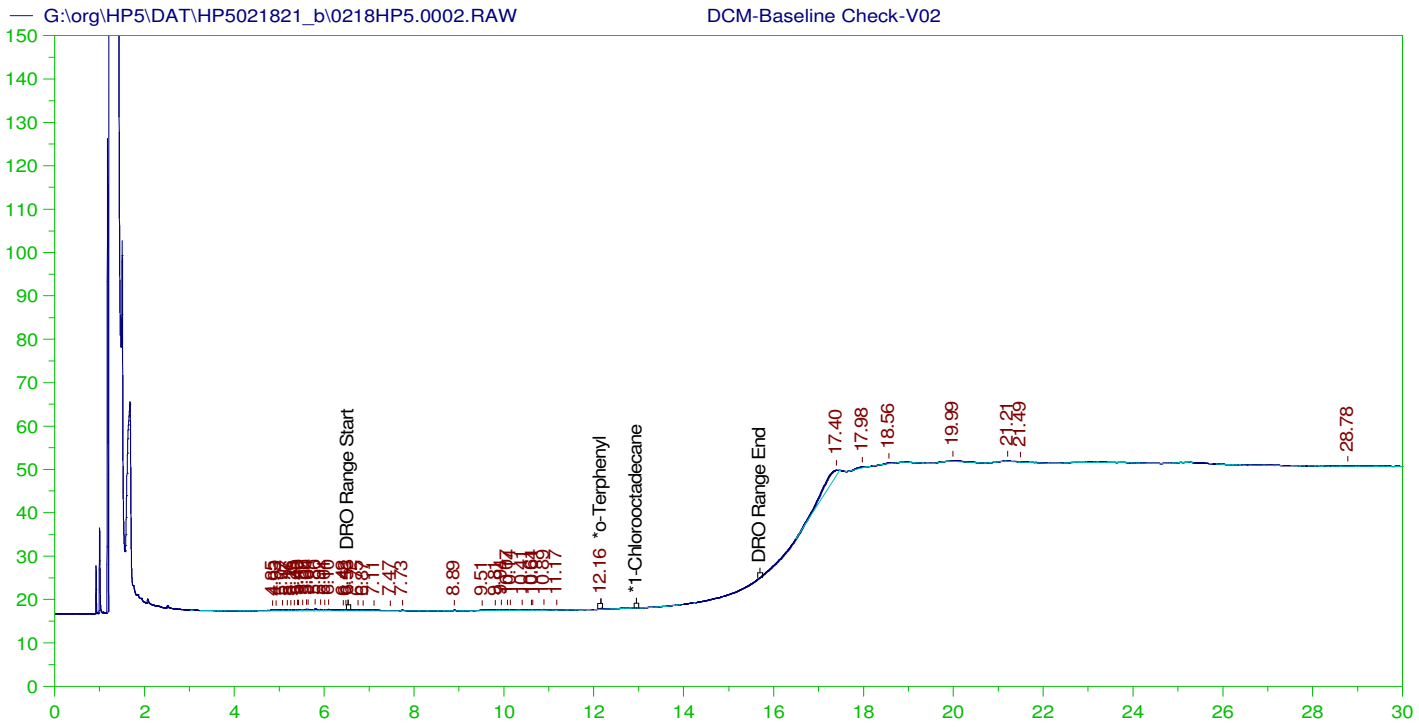
Average CF fit with equal weighting, forced to origin

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

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



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



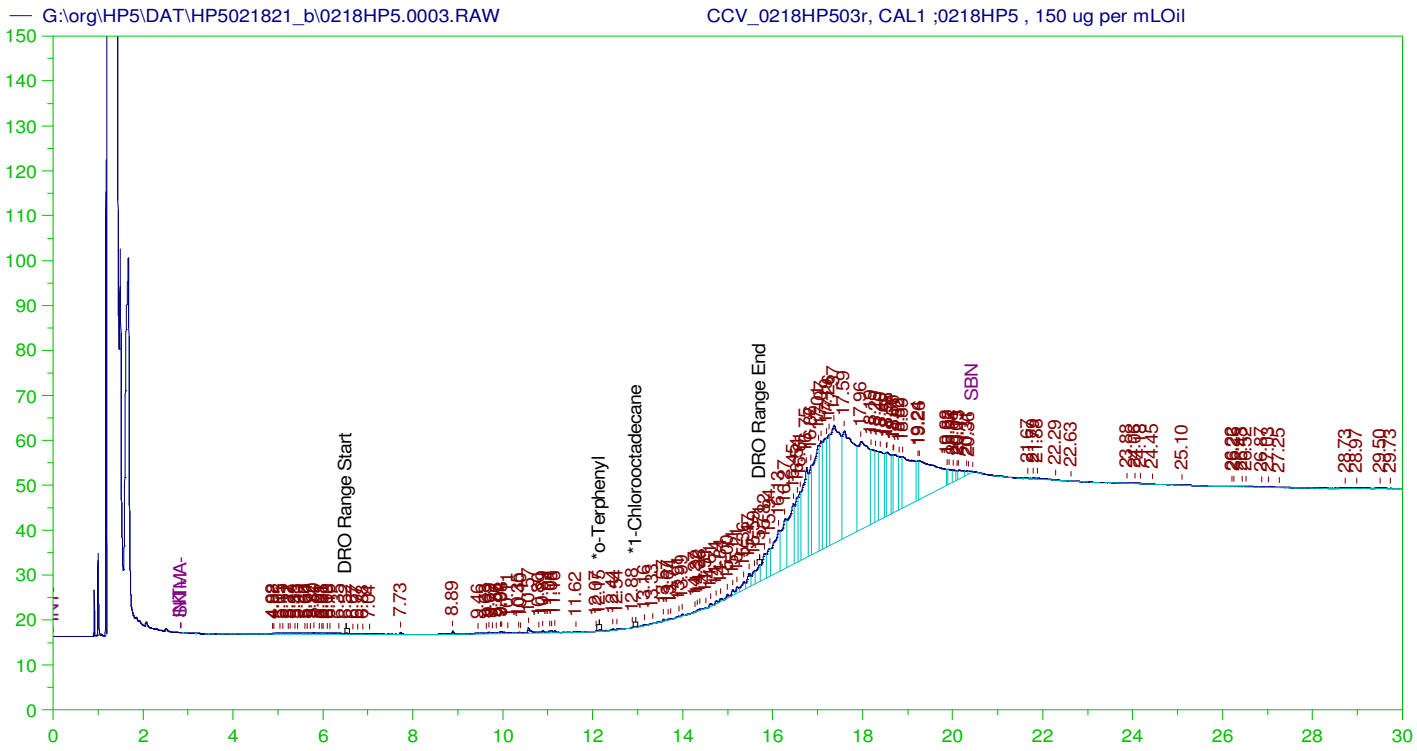
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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

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

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

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



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

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

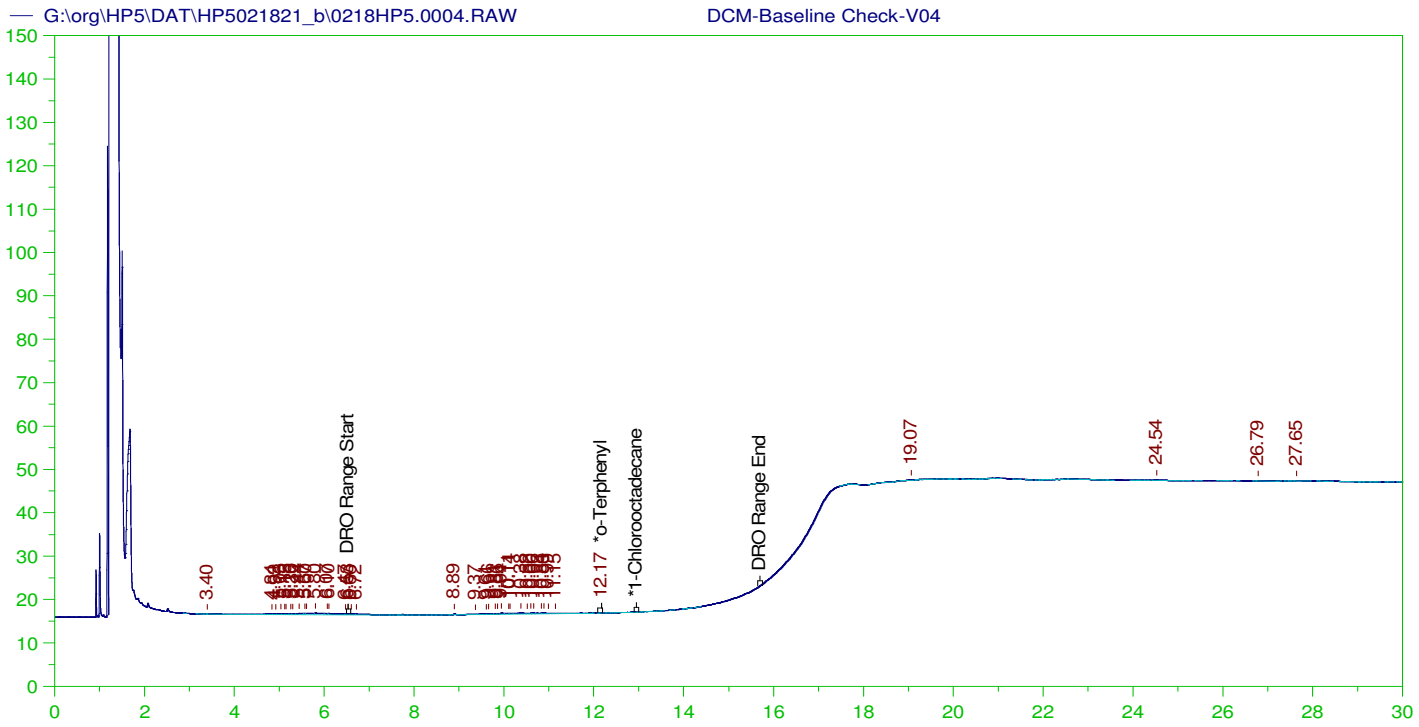
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.146	200.	.02	.01	-
*1-Chlorooctadecane	29.979	200.	.	.	-

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

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

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

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



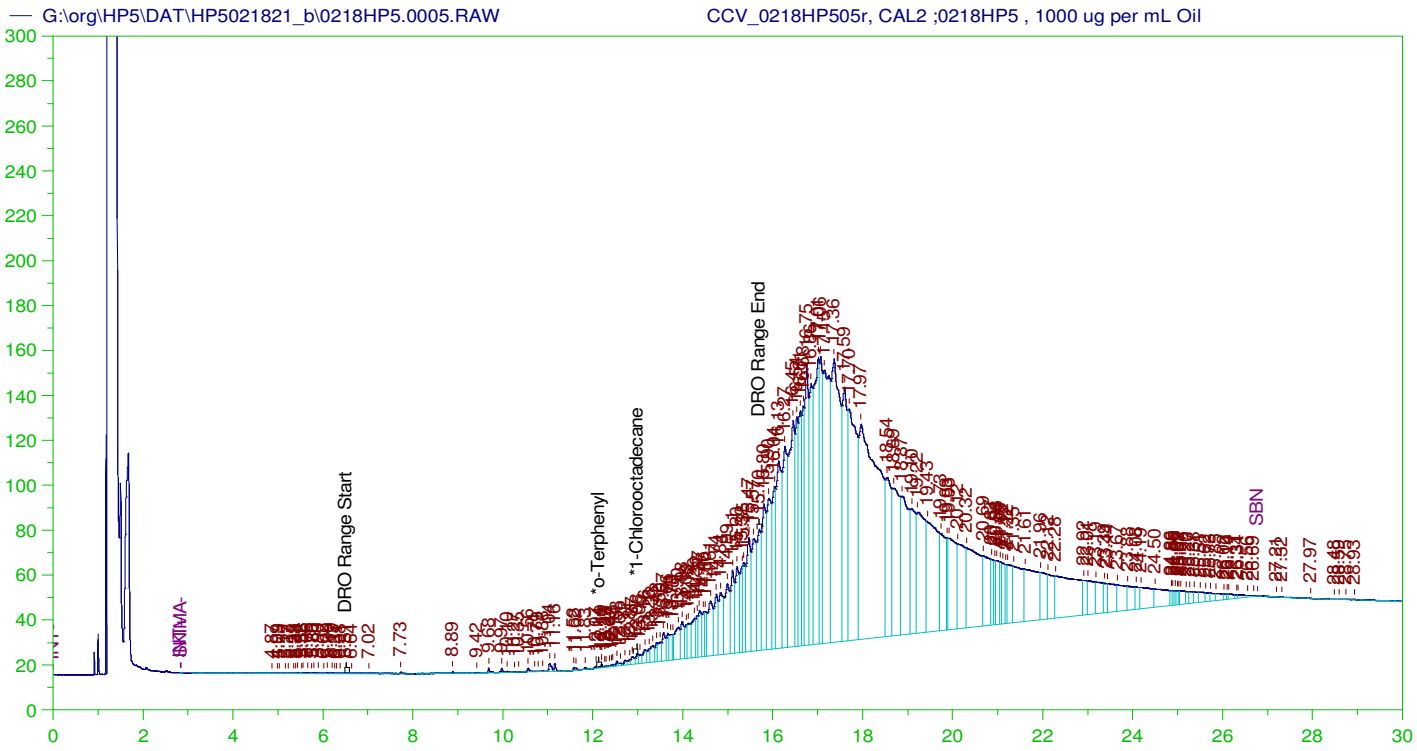
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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	-

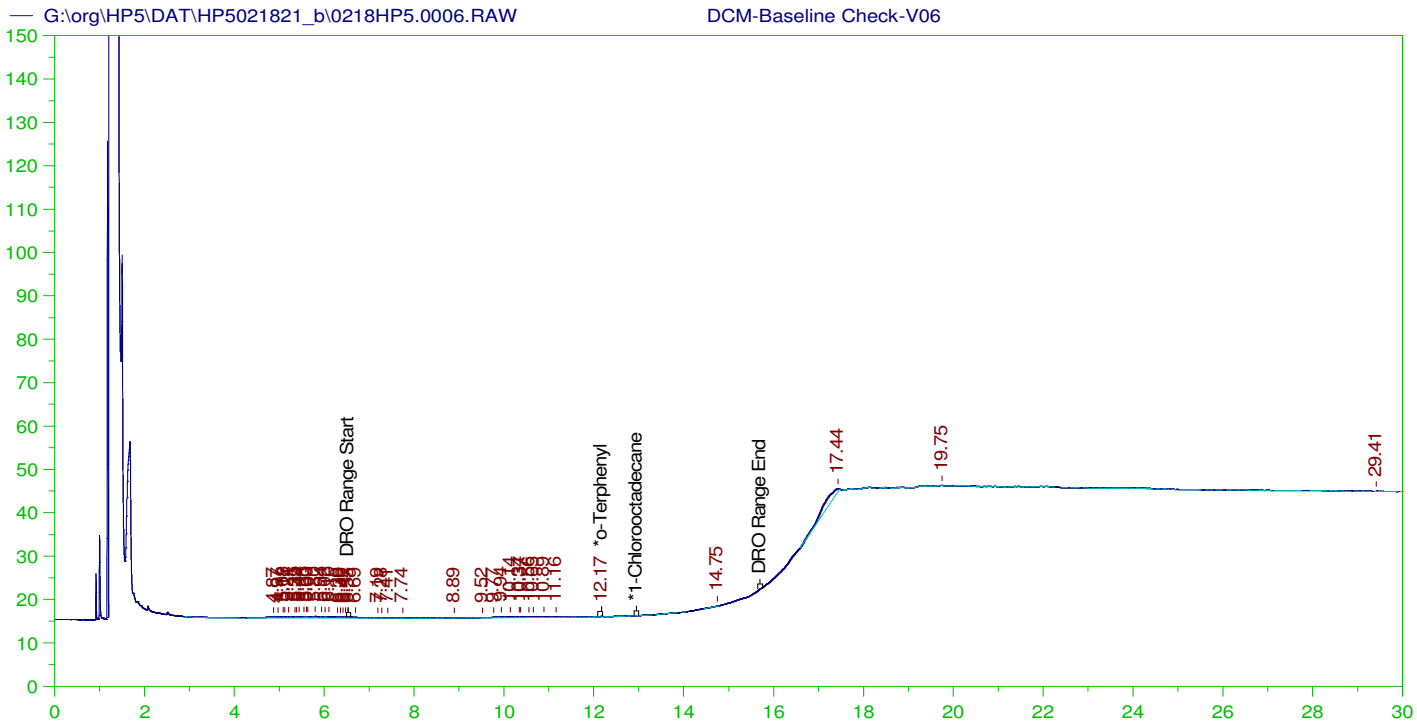
DRO Area:3721460 DRO Amount: 130.3835
TEH Area:3.03352E+07 TEH Amount: 1062.811

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

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



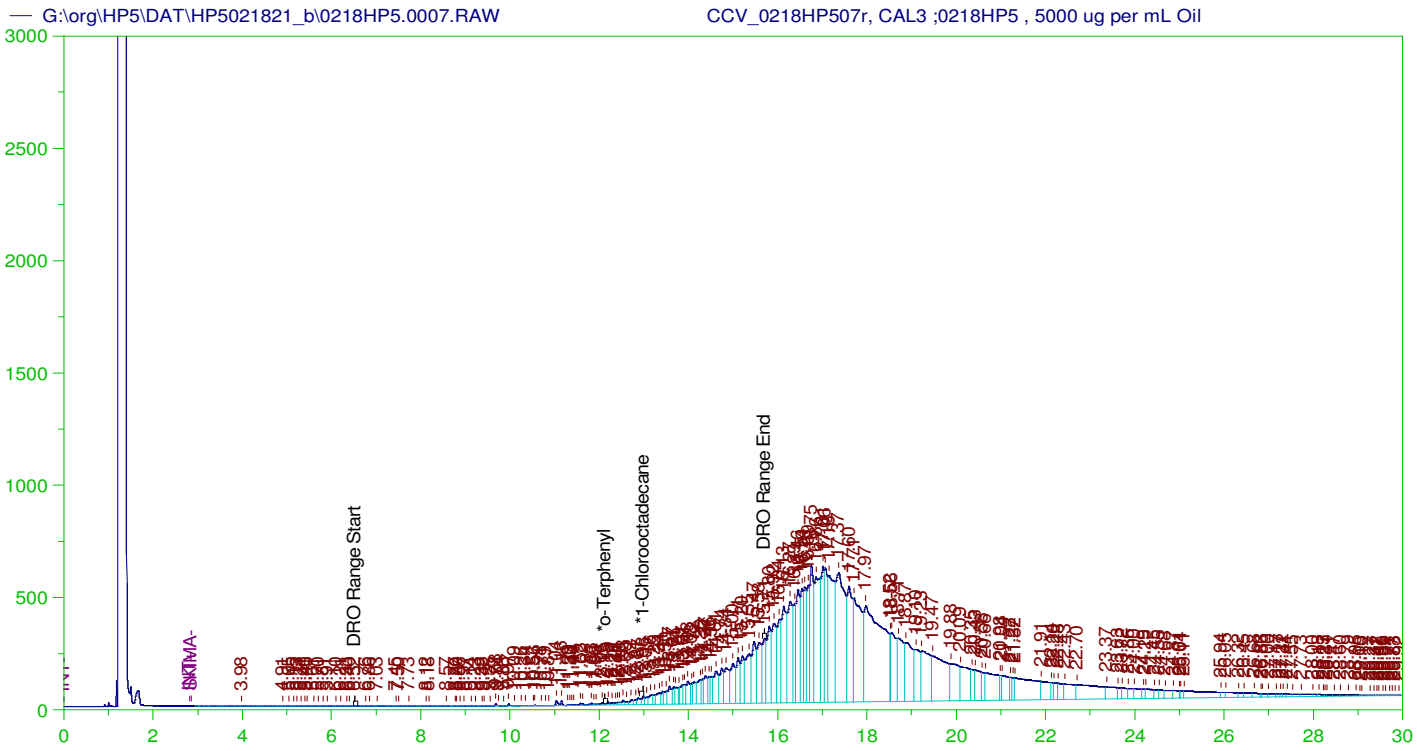
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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

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

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

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



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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

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

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

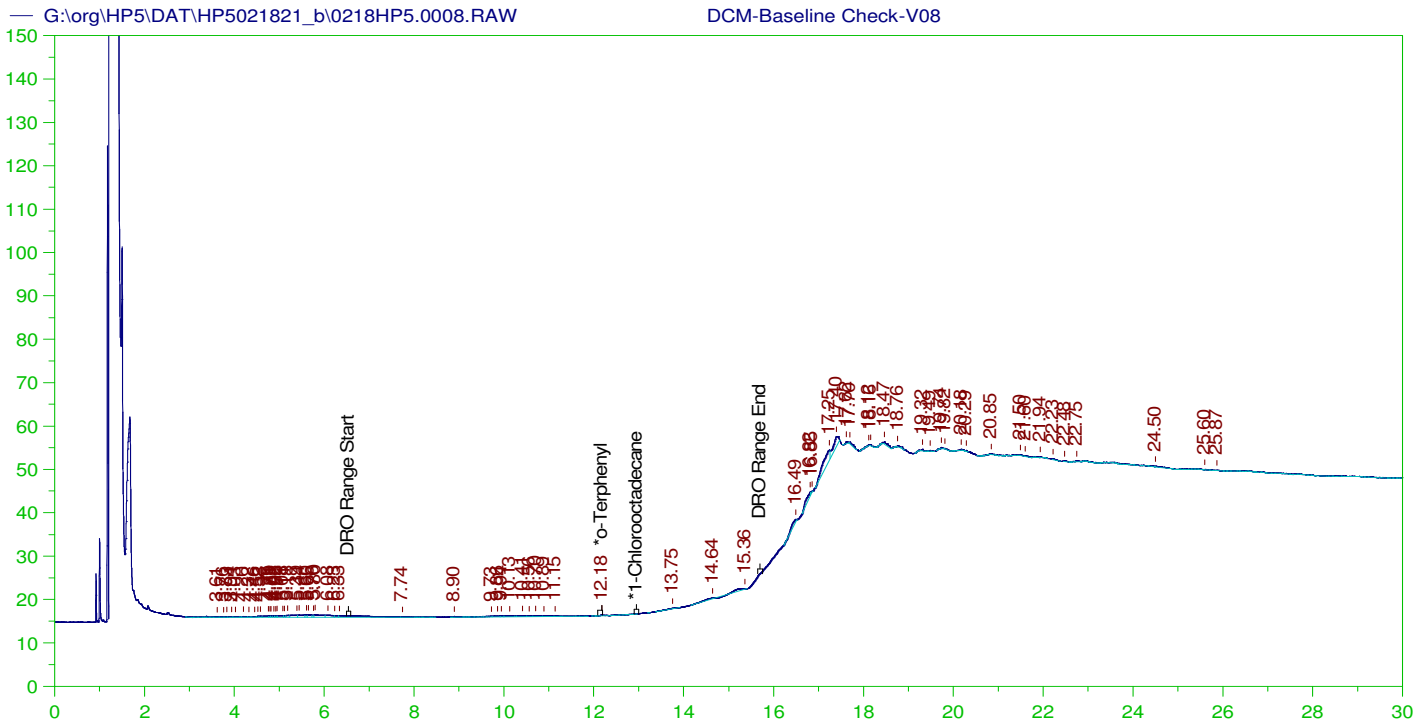
DRO Area:2.19239E+07 DRO Amount: 768.1166
TEH Area:1.437314E+08 TEH Amount: 5035.713

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

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

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

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



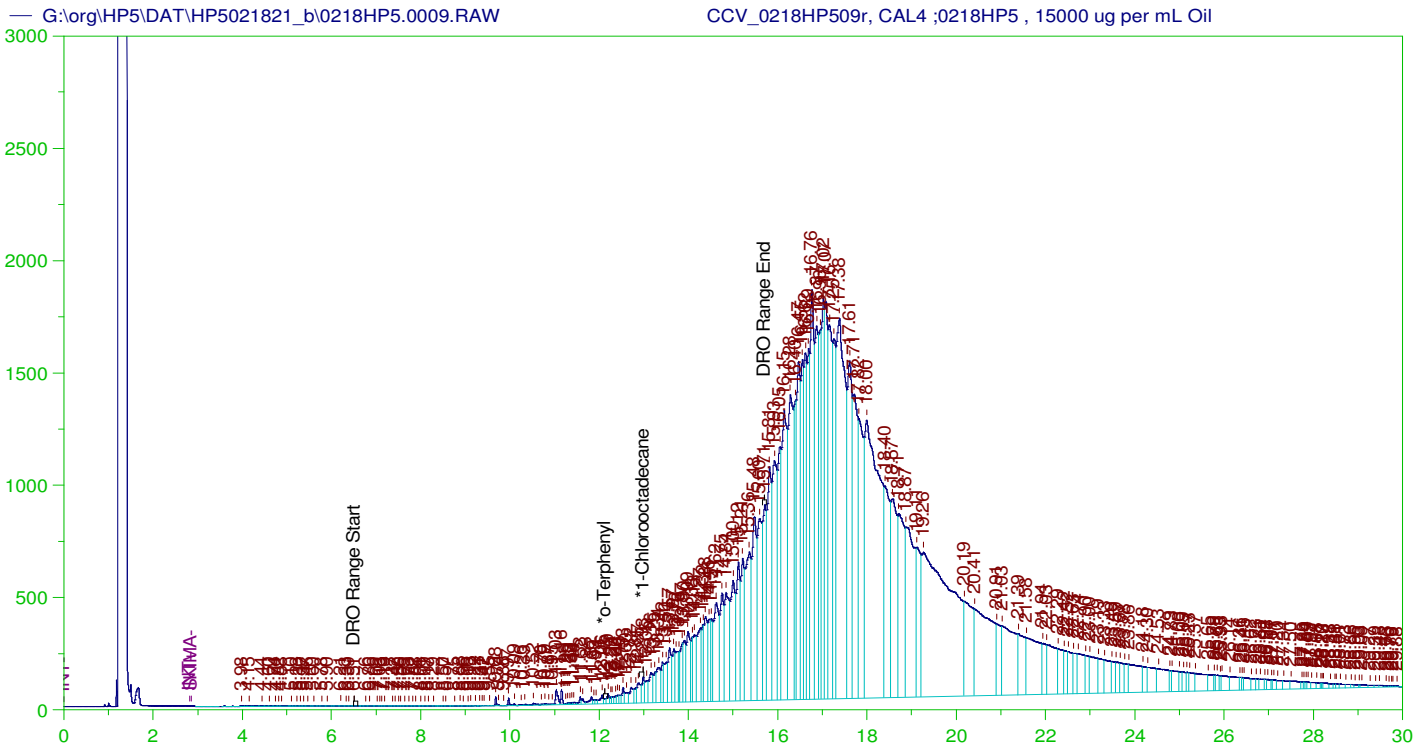
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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

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

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

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



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

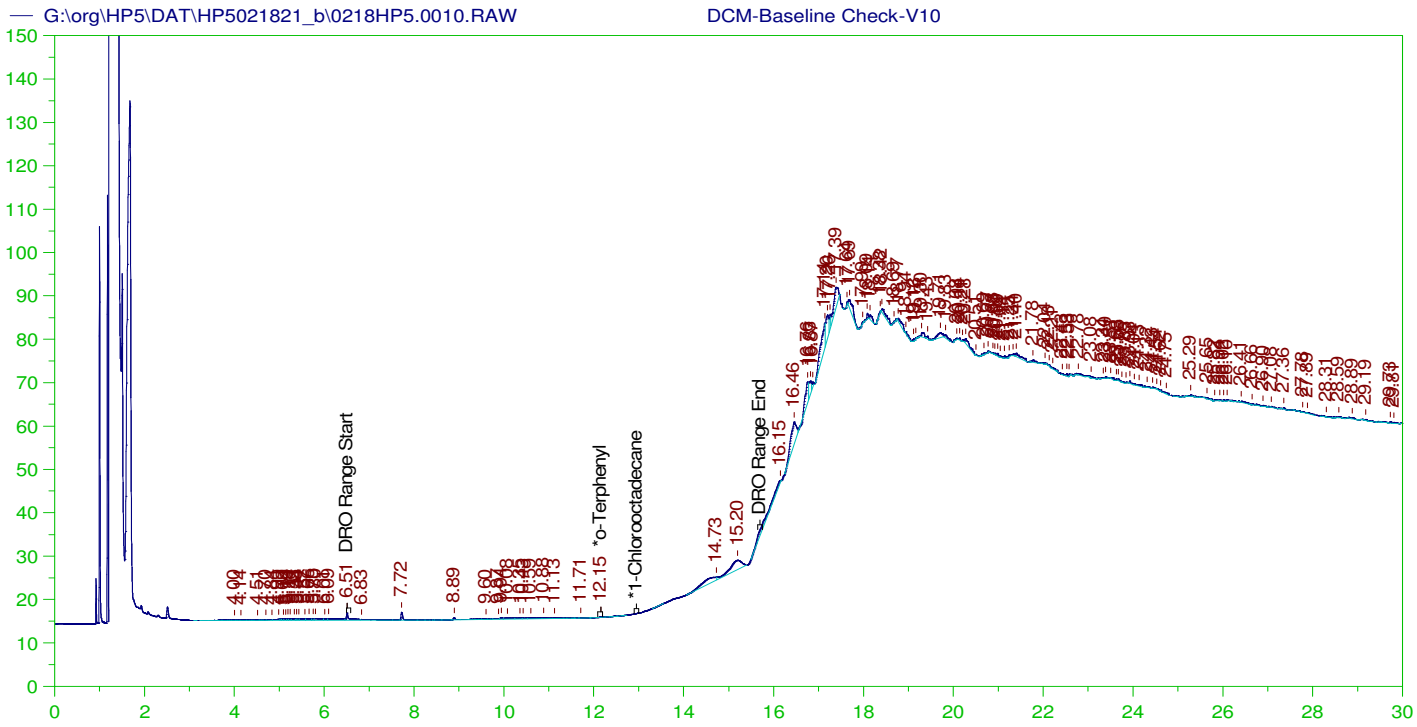
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.124	200.	1.888	.94	-
*1-Chlorooctadecane	12.984	200.	13.129	6.56	-

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



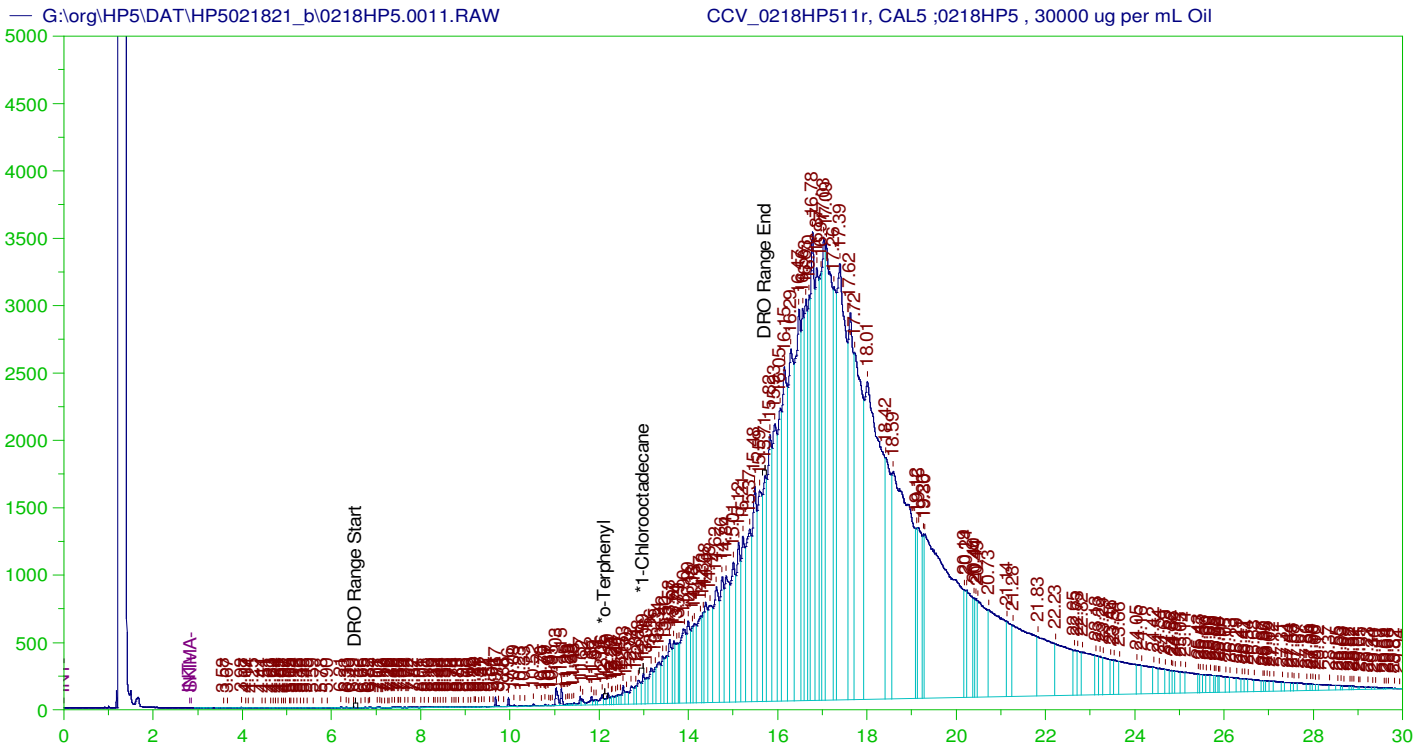
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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

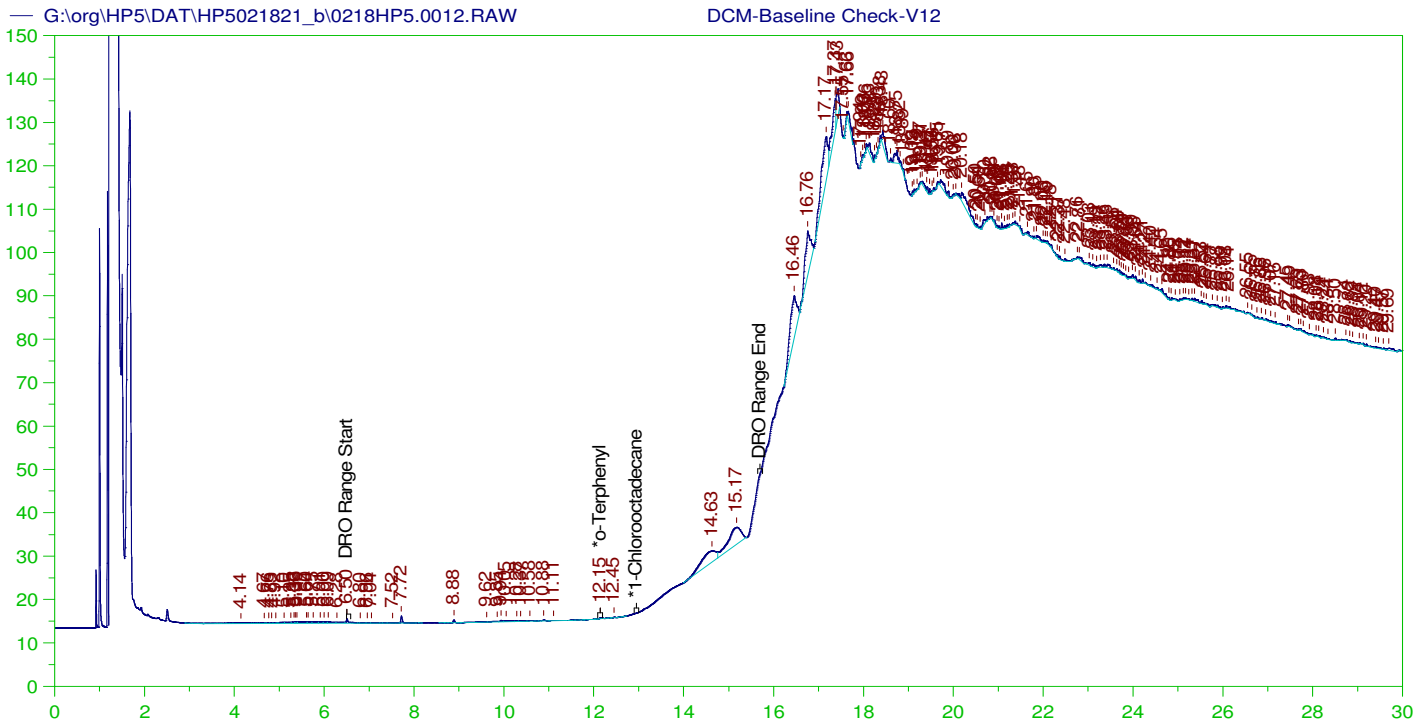
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.128	200.	3.828	1.91	-
*1-Chlorooctadecane	12.985	200.	28.22	14.11	-

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



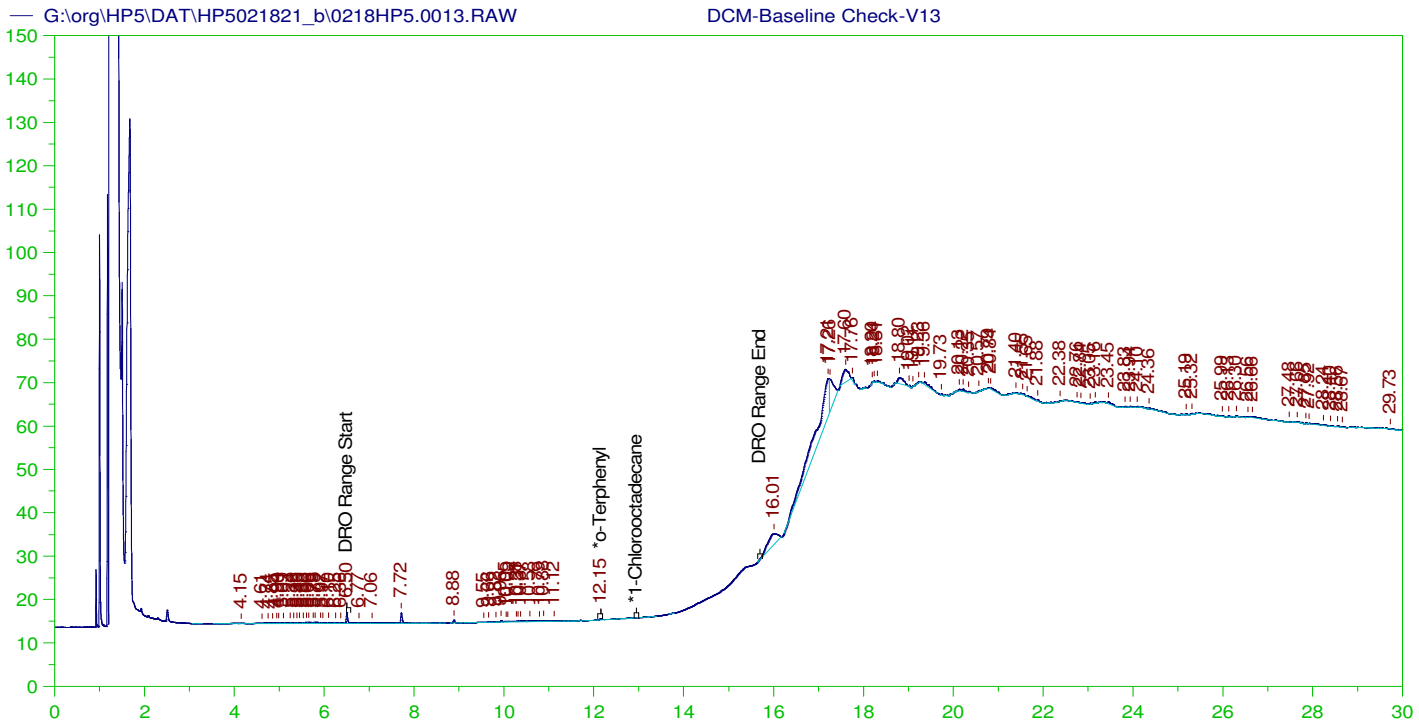
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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

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

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

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



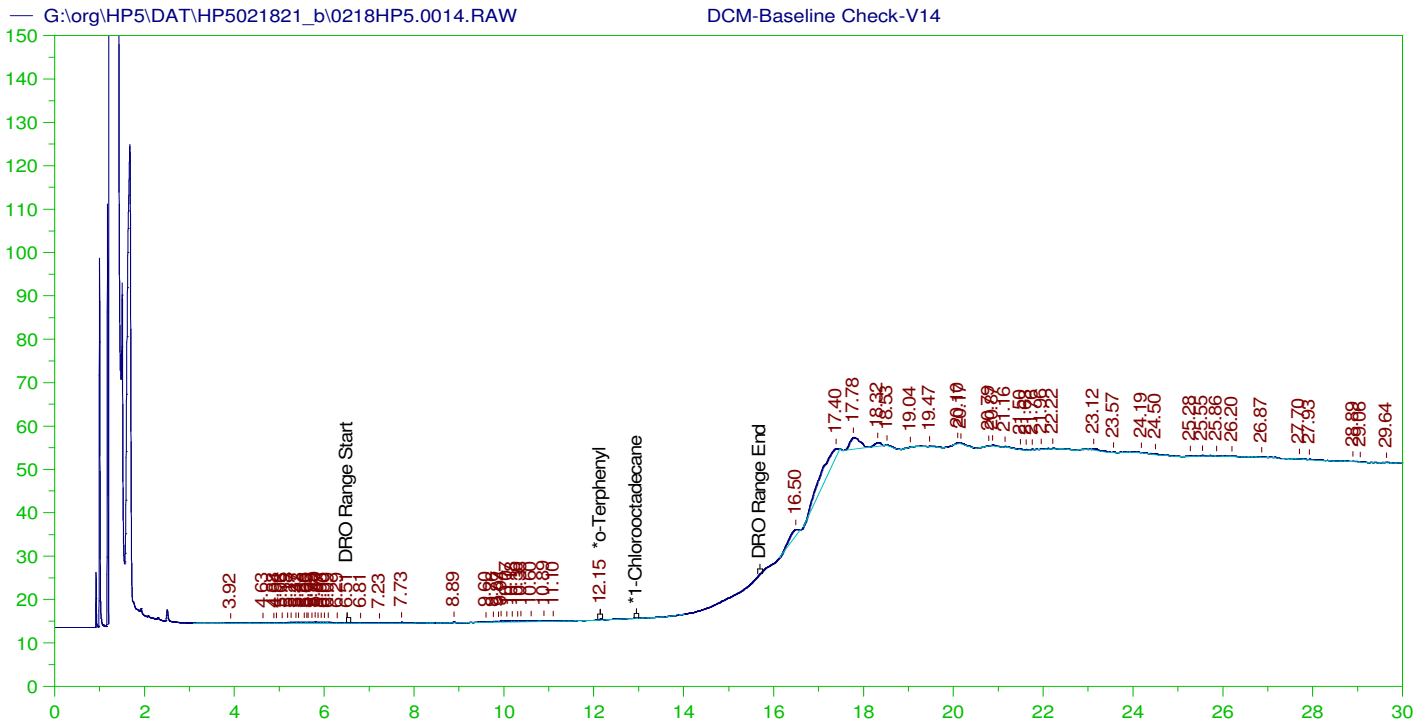
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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

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

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

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



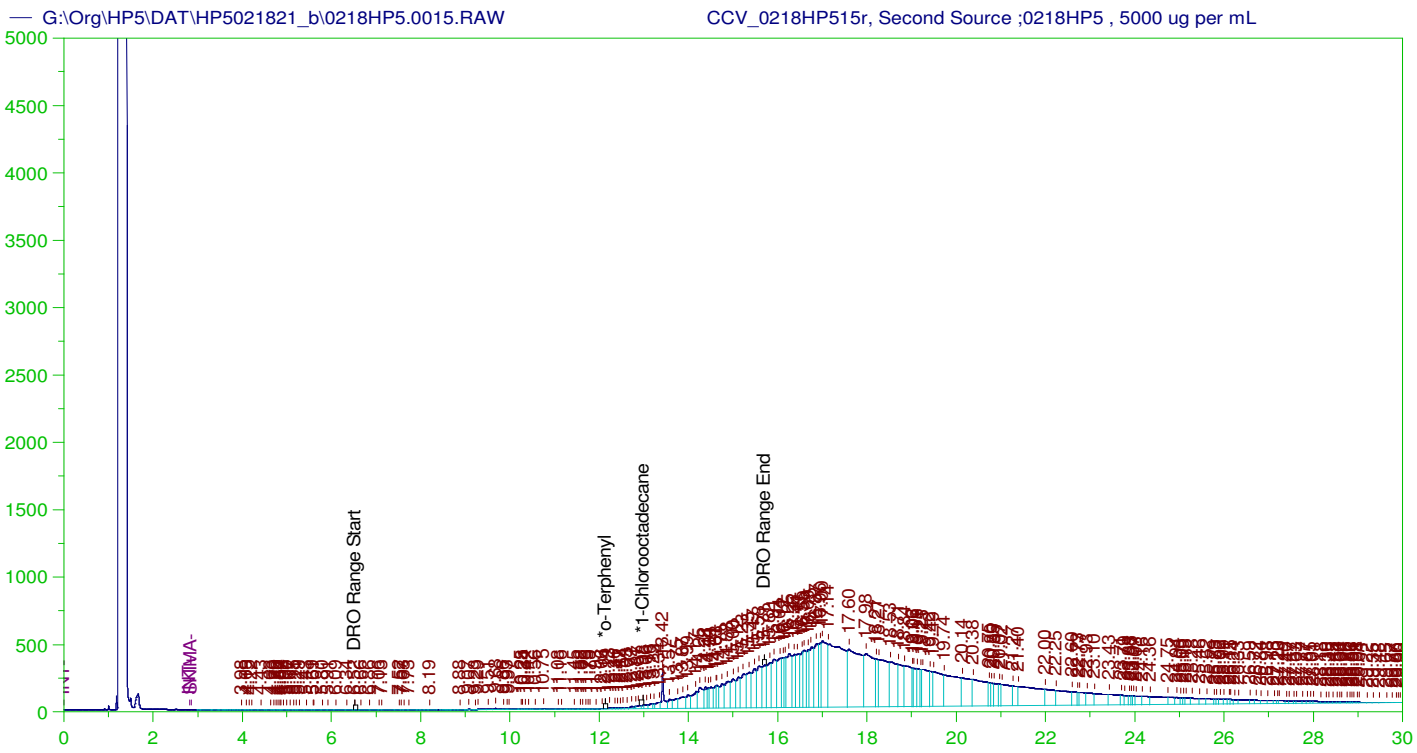
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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

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

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

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



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

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

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

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

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

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

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

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

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

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

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2021.10.29 12:03:40 -06:00

Energy Laboratories Inc

ANALYTICAL RUN Summary

25-Oct-21

Run ID GCFID-HP5-B_211017A

Run Start Date: 10/17/2021
Analyst: Ann Nebel
Ical:
Column ID:
Comments: Triacontane ICAL

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO211006A	Triacontane SURR 2000 ug/mL					SURR	4/6/2026

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14777567	CCV_1017HP50	HC-8015-DRO-	CAL1		10/17/2021 3:30:	1	R368813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.00202757		0.002	0	0	0.002	0.002	0	101%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14777568	CCV_1017HP50	HC-8015-DRO-	CAL2		10/17/2021 4:12:	1	R368813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.04817772		0.05	0	0	0.002	0.002	0	96%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14777569	CCV_1017HP50	HC-8015-DRO-	CAL3		10/17/2021 4:55:	1	R368813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.2231112		0.2	0	0	0.002	0.002	0	112%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14777570	CCV_1017HP50	HC-8015-DRO-	CAL4		10/17/2021 5:38:	1	R368813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.4700634		0.5	0	0	0.002	0.002	0	94%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist				
14777571	CCV_1017HP50	HC-8015-DRO-	CAL5		10/17/2021 6:20:	1	R368813		0	0					

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.9372648		1	0	0	0.002	0.002	0	94%	80	120	0%	

Write Sequence	Insert Entries(Have the first cell for entries selecte						
Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\org\HP5\DAT\HP5101721_b\1017HP5.01r	DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-HS-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5101721_b\1017HP5.02r	DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-HS-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5101721_b\1017HP5.03r	CCV_1017HP503r, DRO ;1017HP5 , DRO210708A	G:\Org\HP5\Methods\DR_8015-HS-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5101721_b\1017HP5.04r	DCM-Baseline Check-V04	G:\Org\HP5\Methods\DR_8015-HS-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5101721_b\1017HP5.05r	CCV_1017HP505r, CAL1 ;1017HP5 , 2 ug per mL Triacontane (10 uL of Cal3 + 990 uL DCM(14354)	G:\Org\HP5\Methods\DS_ORO-AA-L0.met	1	1	1	1	0
G:\org\HP5\DAT\HP5101721_b\1017HP5.06r	CCV_1017HP506r, CAL2 ;1017HP5 , 50 ug per mL Triacontane (100 uL Cal4 + 900 uL of DCM(14354)	G:\Org\HP5\Methods\DS_ORO-AA-L0.met	1	1	1	1	0
G:\org\HP5\DAT\HP5101721_b\1017HP5.07r	CCV_1017HP507r, CAL3 ;1017HP5 , 200 ug per mL Triacontane (100uL of Cal5 + 400 uL DCM(14354)	G:\Org\HP5\Methods\DS_ORO-AA-L0.met	1	1	1	1	0
G:\org\HP5\DAT\HP5101721_b\1017HP5.08r	CCV_1017HP508r, CAL4 ;1017HP5 , 500 ug per mL Triacontane (250uL of Cal5 + 250 uL DCM(14354)	G:\Org\HP5\Methods\DS_ORO-AA-L0.met	1	1	1	1	0
G:\org\HP5\DAT\HP5101721_b\1017HP5.09r	CCV_1017HP509r, CAL5 ;1017HP5 , 1000 ug per mL Triacontane (500 uL 2000 ug/mL Triacontane DRO211006A + 500 DCM(14354)	G:\Org\HP5\Methods\DS_ORO-AA-L0.met	1	1	1	1	0

File Name: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Version: 11

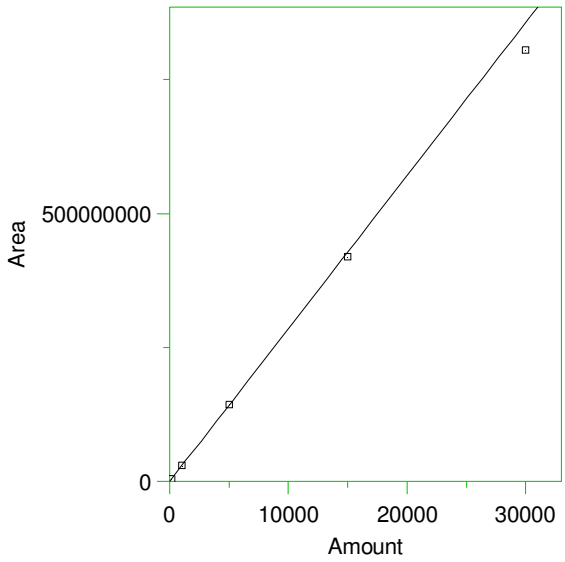
Creator: AMN
Description: 8015C-Oil Range. New ICal Per 1017HP5 (2021)-2 uL Inj.; RRO copied from 8015 cal for Oil
Reason for change:

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

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

All levels are normal data points.

1 *30-40 Motor Oil



Expected retention time: 6.4 minutes
Search window: 0.05 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

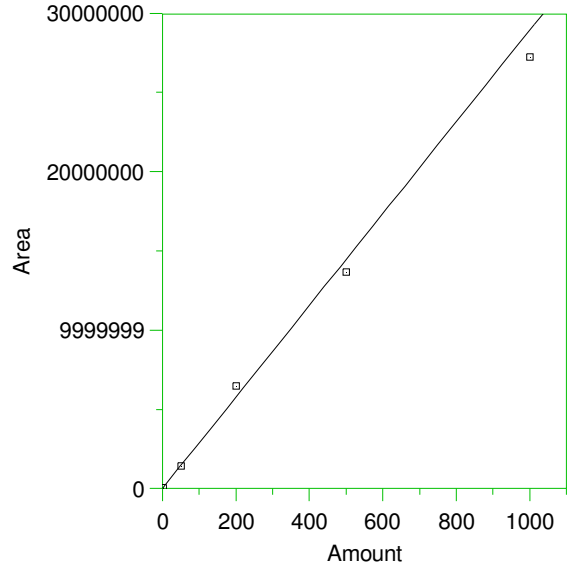
Single peak quantification by area

Y = 28542.41 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9940317
Average error: 3.209%
Average CF: 28542.41
RSD: 4.497%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	150	4325287	28835.25	1.026	Manual	10/18/2021 2:26:35 PM
2	1000	3.03352E+07	30335.2	6.281	Manual	10/18/2021 2:26:39 PM
3	5000	1.437314E+08	28746.28	0.714	Manual	10/18/2021 2:26:42 PM
4	15000	4.193721E+08	27958.14	-2.047	Manual	10/18/2021 2:26:45 PM
5	30000	8.051155E+08	26837.18	-5.974	Manual	10/18/2021 2:26:47 PM

3 *#Triacontane



Expected retention time:	16.26 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

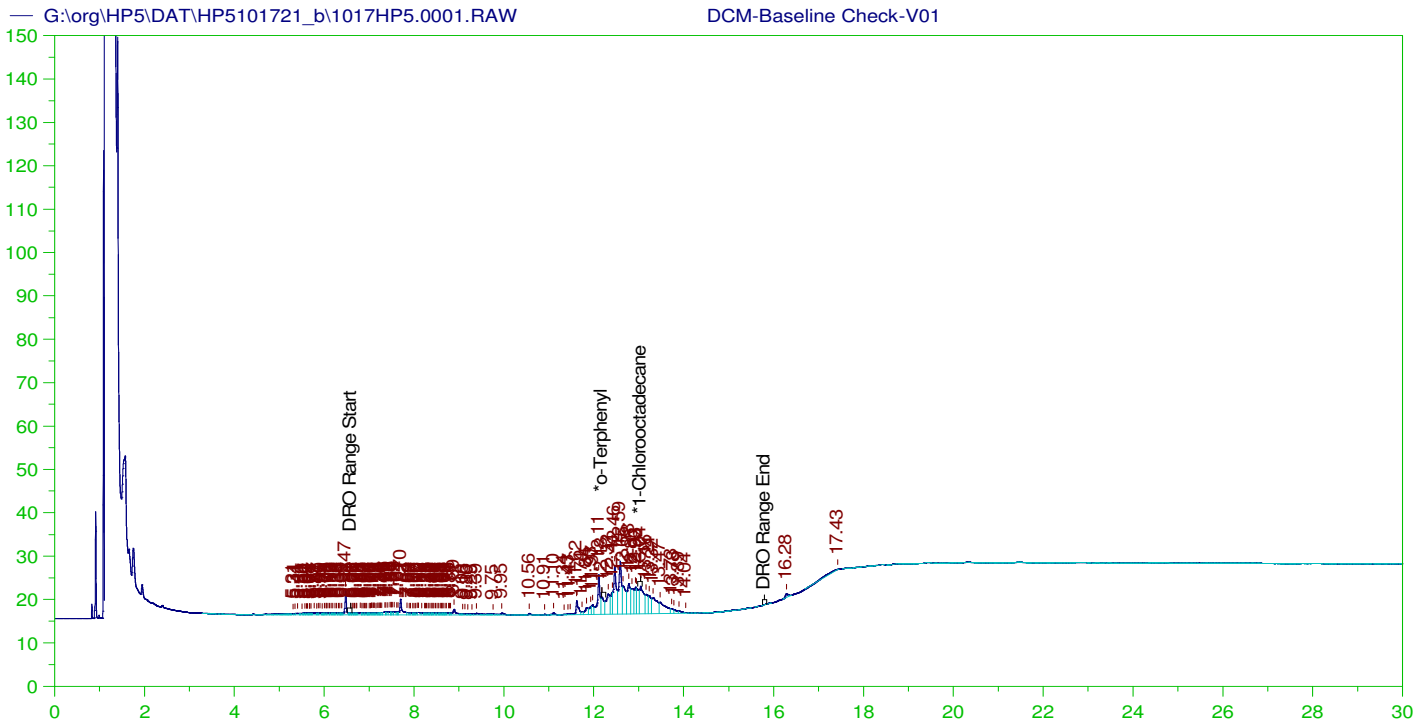
Single peak quantification by area

Y = 28930.14 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9919451
Average error:	5.737%
Average CF:	28930.14
RSD:	7.577%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	59020.1	29510.05	2.005	Manual	10/18/2021 2:42:38 PM
2	50	1403134	28062.68	-2.998	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0015.BND	10/7/2021 12:47:26 PM
3	200	6499949	32499.74	12.339	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0017.BND	10/7/2021 12:47:56 PM
4	500	1.366713E+07	27334.26	-5.516	Manual	10/18/2021 2:44:43 PM
5	1000	2.724398E+07	27243.98	-5.828	Manual	10/18/2021 2:43:45 PM



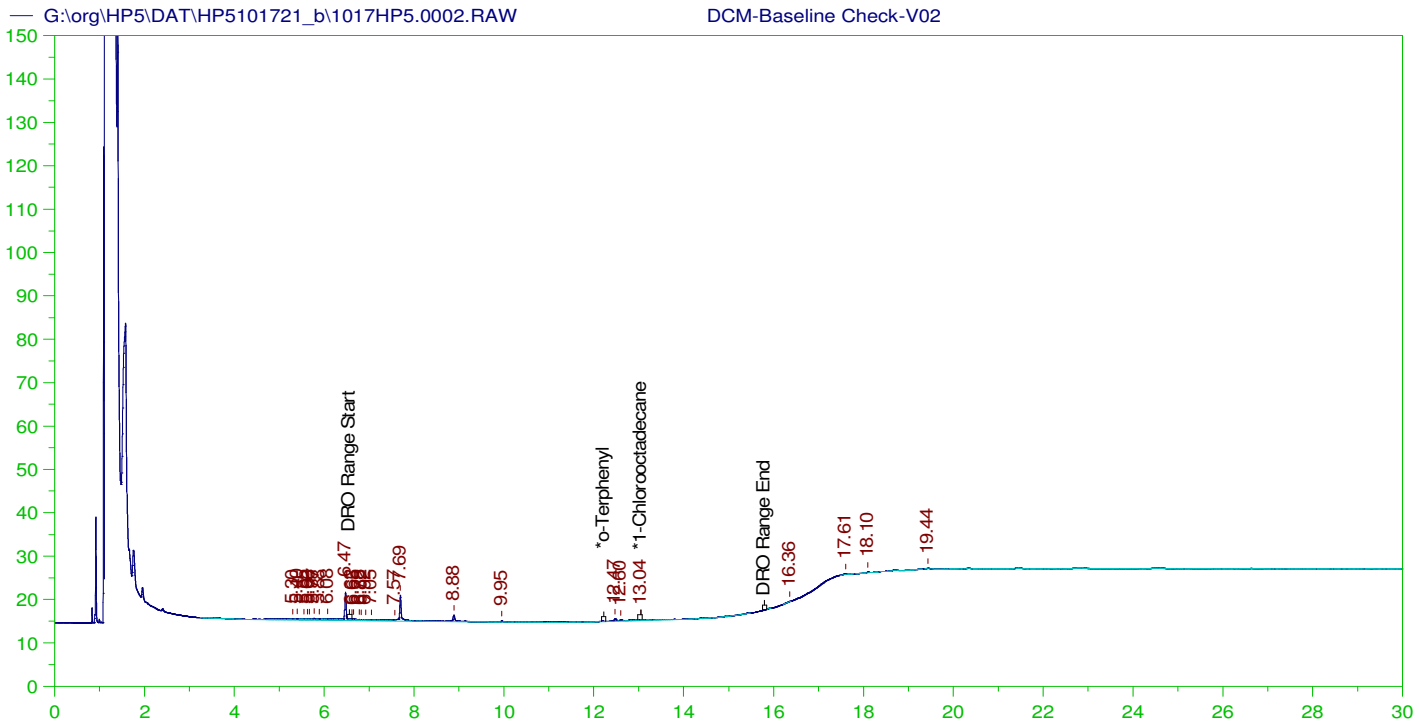
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V01
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0001.RAW
Date & Time Acquired: 10/17/2021 12:40:02 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.178	200.	.522	.26	-
*1-Chlorooctadecane	13.04	200.	1.235	.62	-

DRO Area:571771.5 DRO Amount: 19.41016
TEH Area:639555.1 TEH Amount: 21.71124



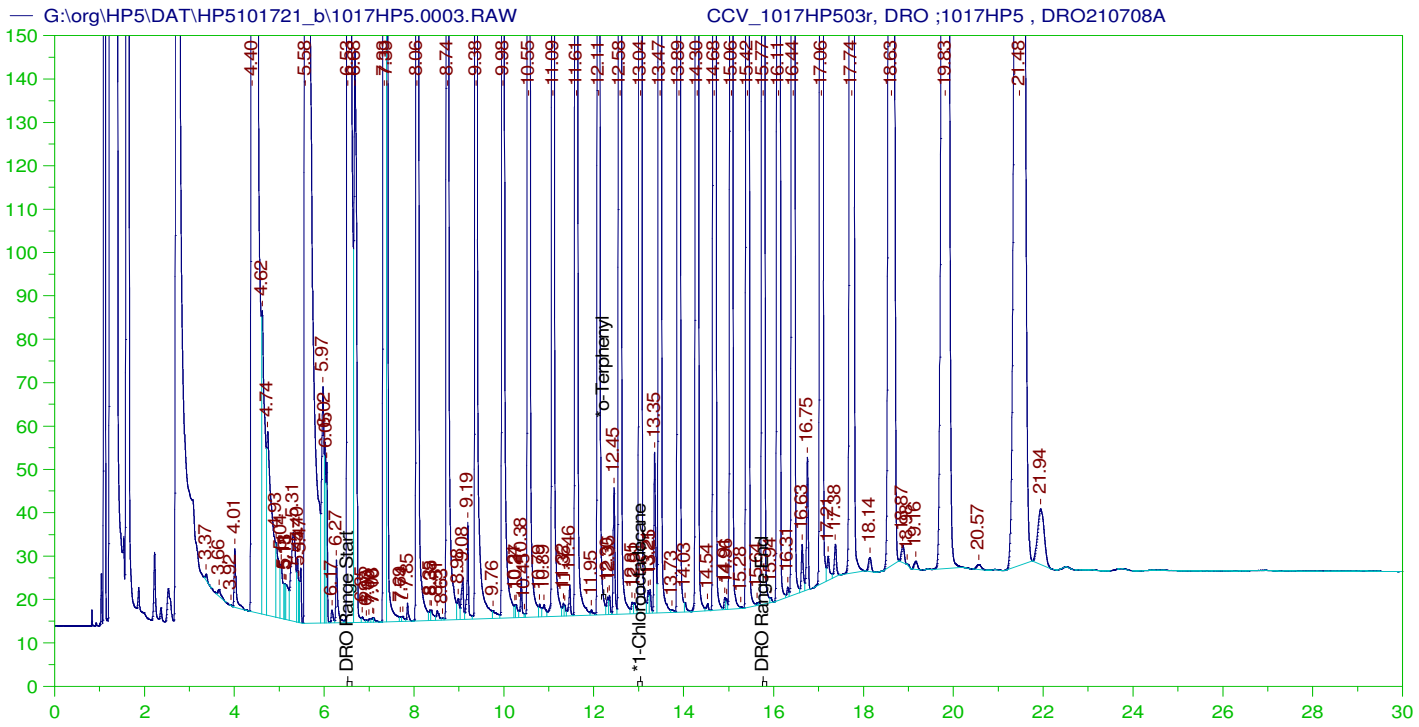
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0002.RAW
Date & Time Acquired: 10/17/2021 1:22:21 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.973	200.	.	. -
*1-Chlorooctadecane	13.043	200.	.018	.01 -

DRO Area:58862.56 DRO Amount: 1.998231
TEH Area:105899.4 TEH Amount: 3.595009



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: CCV_1017HP503r, DRO ;1017HP5 , DRO210708A
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0003.RAW
Date & Time Acquired: 10/17/2021 2:04:53 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

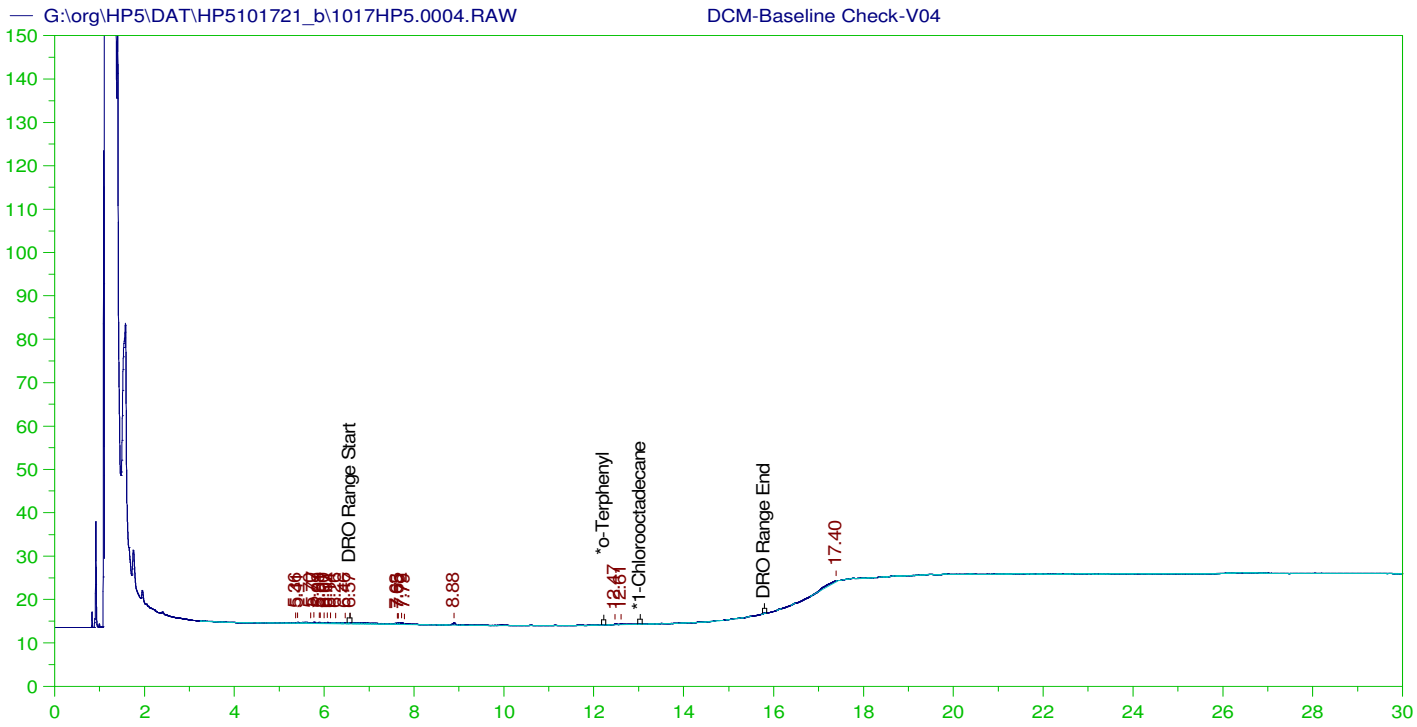
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	29.982	200.	.	.	-
*1-Chlorooctadecane	13.037	200.	255.634	127.82	-

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

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0003.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8048.46	53.66	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	29.982	200.	.	.	85-115
*1-Chlorooctadecane	13.037	200.	255.634	127.82	85-115



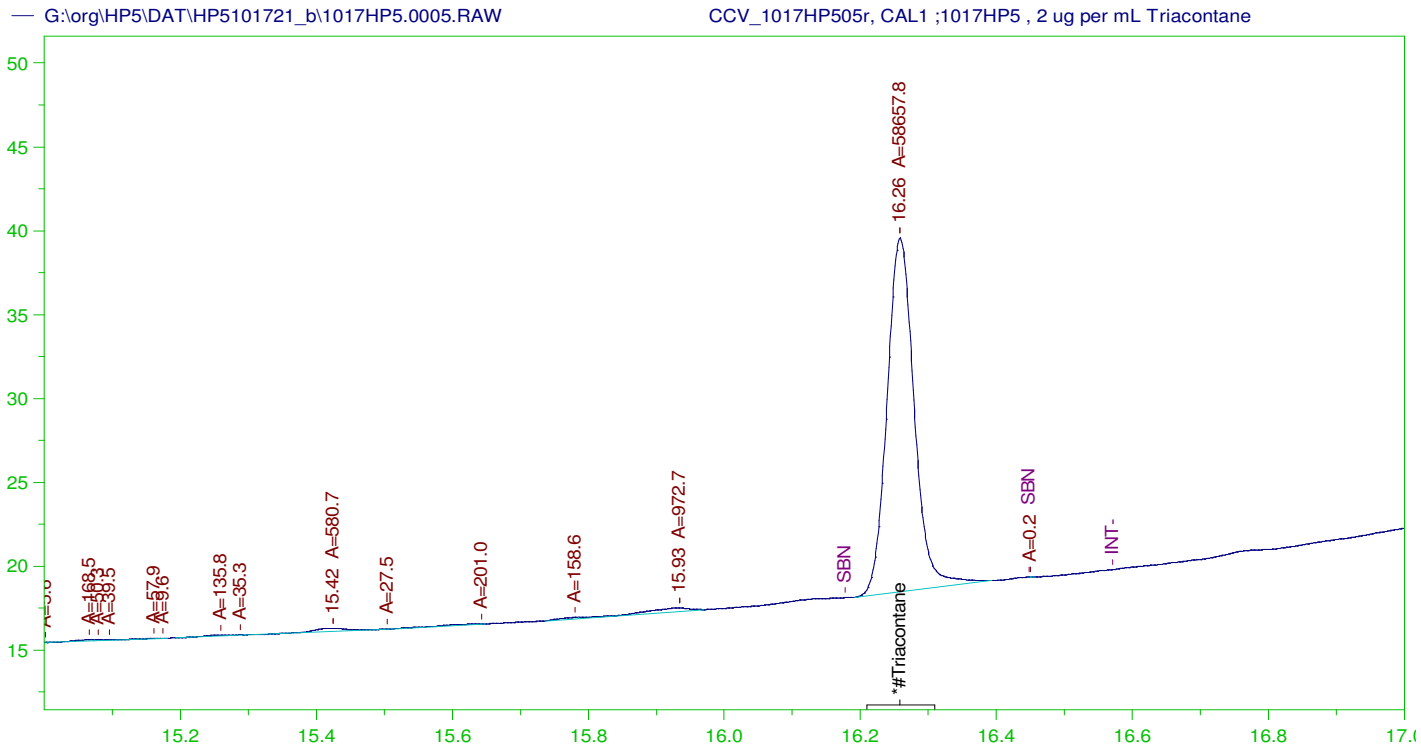
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V04
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0004.RAW
Date & Time Acquired: 10/17/2021 2:47:29 PM
Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
Rt range for Diesel Range Organics: 6.51 to 15.85

SURROGATE COMPOUND	RT	ACTUAL	MEASURED		%REC
*o-Terphenyl	29.987	200.	.	.	-
*1-Chlorooctadecane	29.987	200.	.	.	-

DRO Area:32637.46 DRO Amount: 1.107957
TEH Area:75218.02 TEH Amount: 2.553457



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1017HP505r, CAL1 ;1017HP5 , 2 ug per mL Triacontane
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0005.RAW
Date & Time Acquired: 10/17/2021 3:30:16 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AA-L0.met
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

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

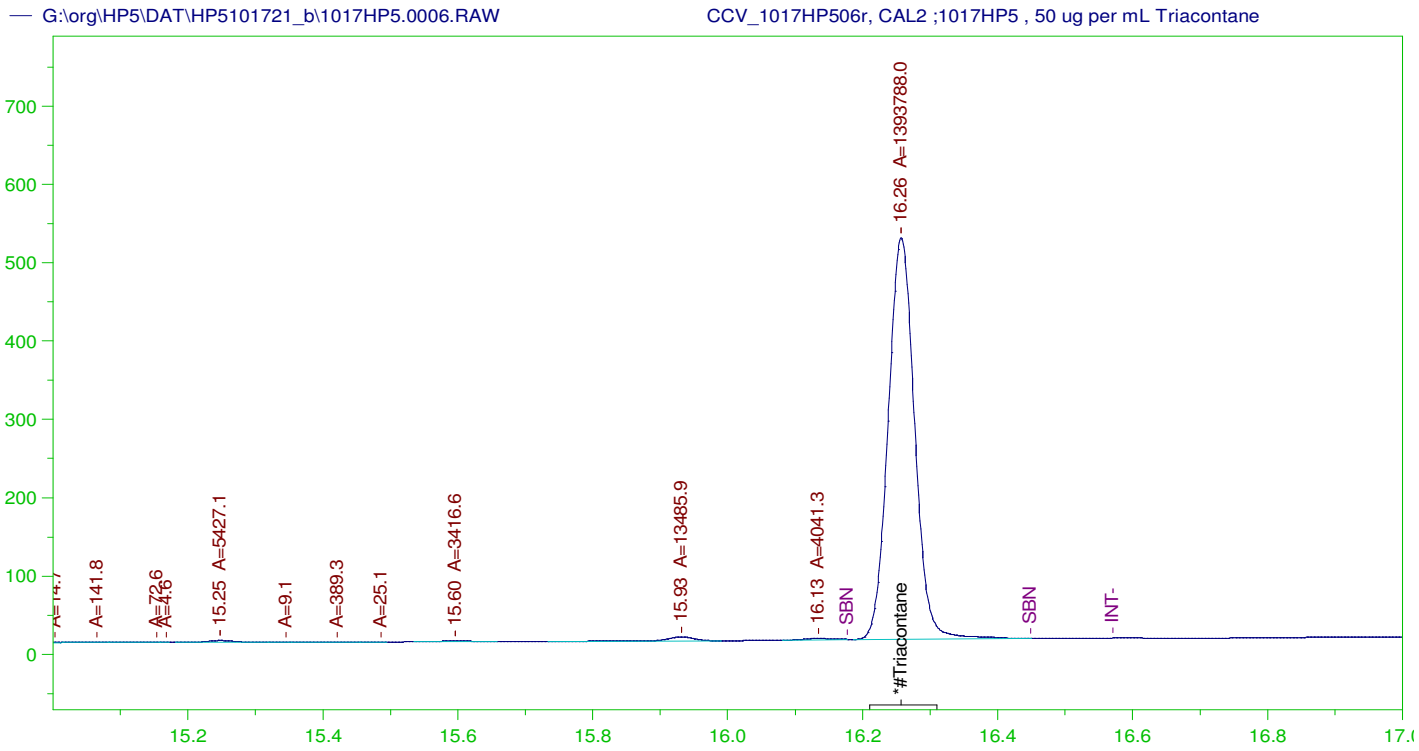
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.258	500.	2.028	.41	-

RRO Area:2747.039 RRO AMOUNT: 9.624412E-02

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0005.RAW

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

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



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1017HP506r, CAL2 ;1017HP5 , 50 ug per mL Triacontane
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0006.RAW
Date & Time Acquired: 10/17/2021 4:12:57 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AA-L0.met
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

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

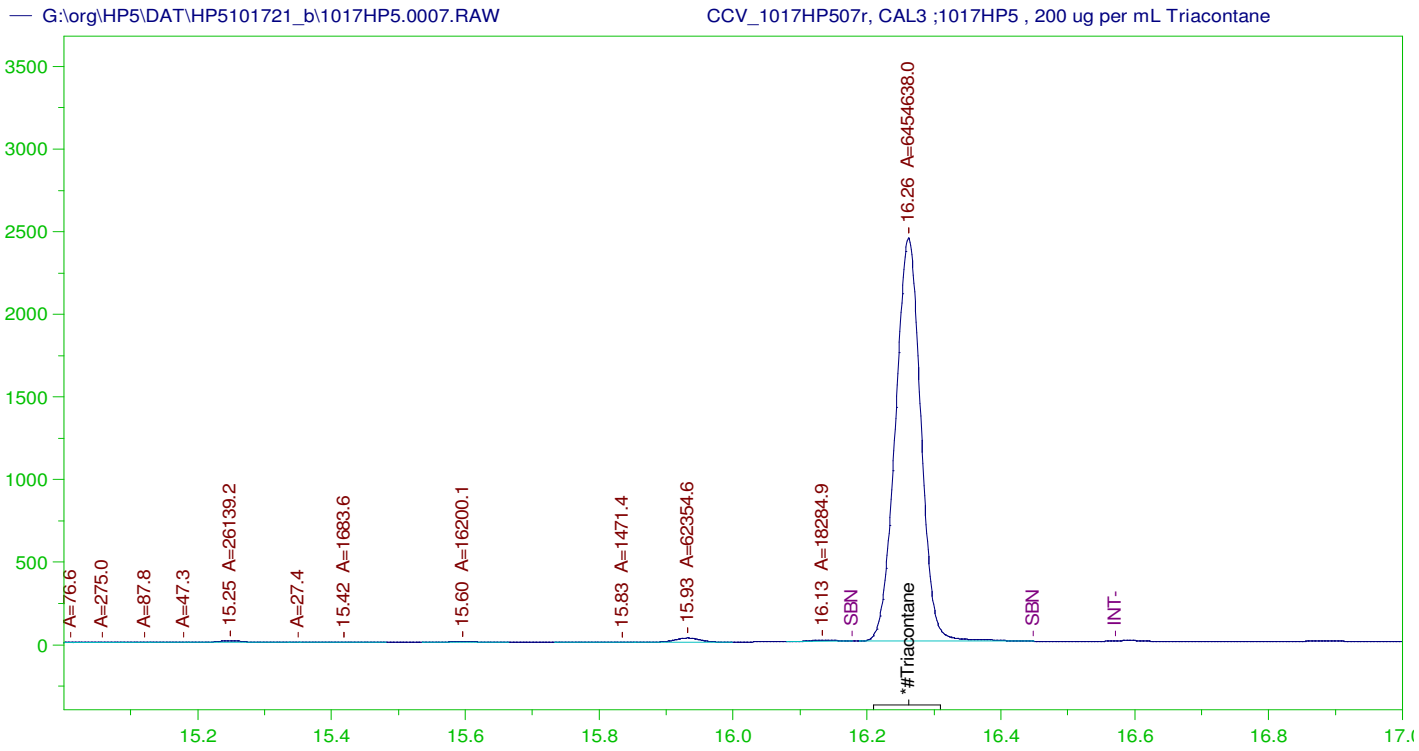
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.257	500.	48.178	9.64	-

RRO Area:45902.25 RRO AMOUNT: 1.608212

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0006.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.257	200.	48.178	24.09	75-125



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1017HP507r, CAL3 ;1017HP5 , 200 ug per mL Triacontane
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0007.RAW
Date & Time Acquired: 10/17/2021 4:55:33 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AA-L0.met
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

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

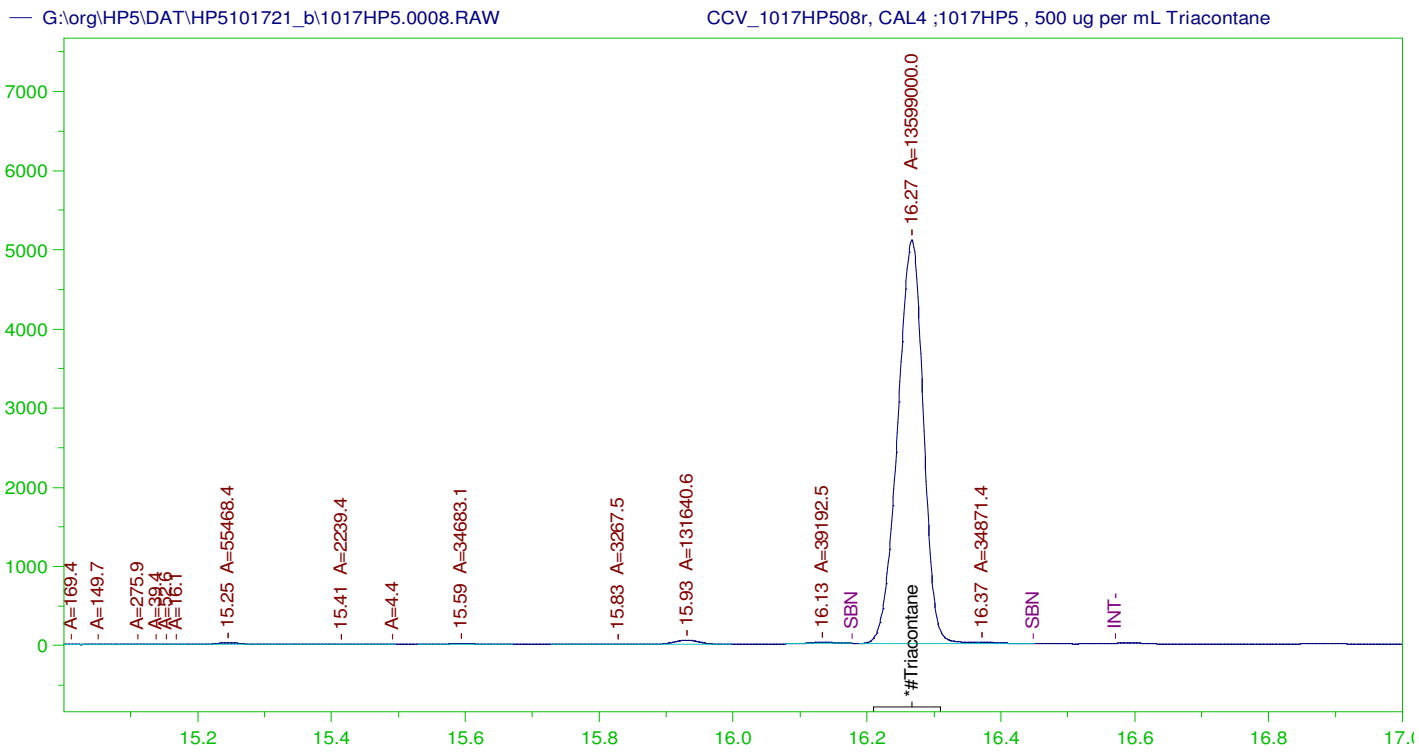
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.262	500.	223.111	44.62	-

RRO Area:219754.5 RRO AMOUNT: 7.699227

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0007.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.262	200.	223.111	111.56	75-125



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1017HP508r, CAL4 ;1017HP5 , 500 ug per mL Triacontane
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0008.RAW
Date & Time Acquired: 10/17/2021 5:38:10 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AA-L0.met
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

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

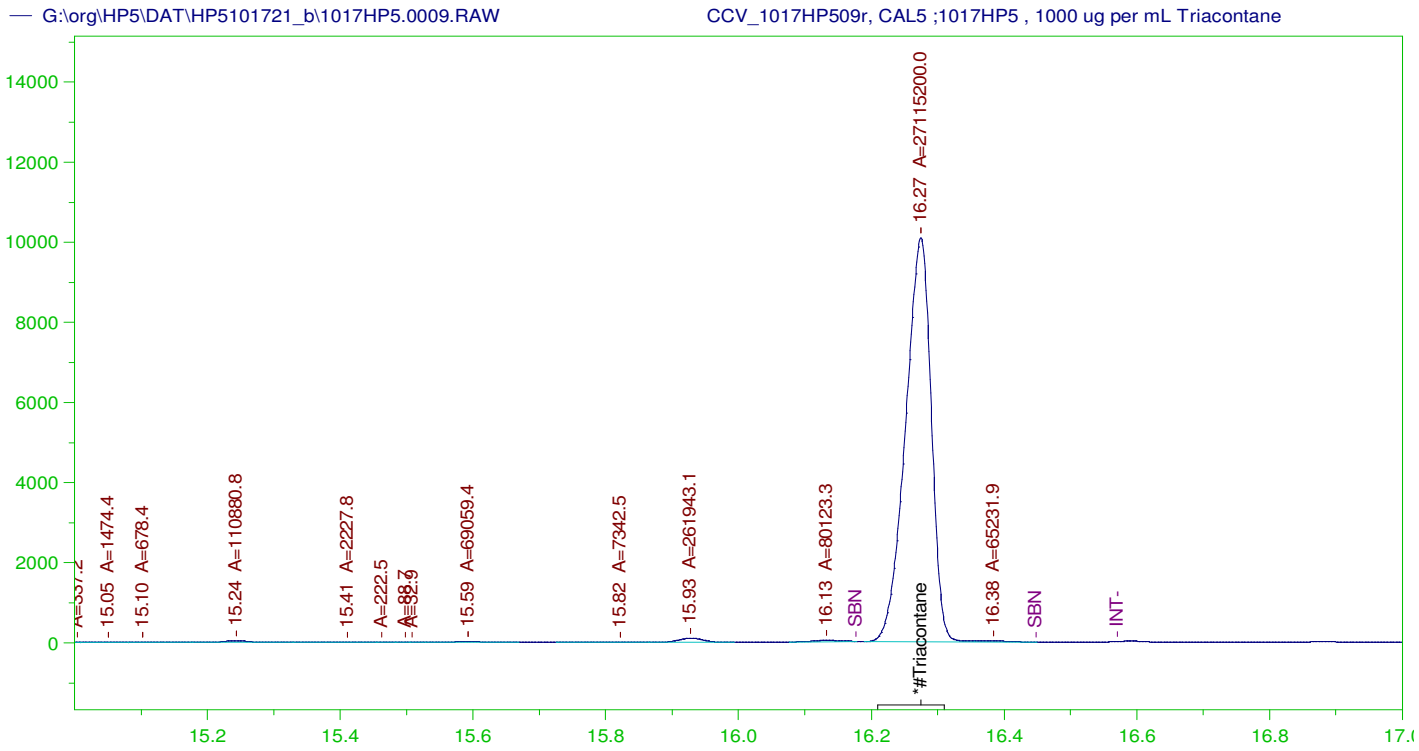
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.267	500.	470.063	94.01	-

RRO Area:496538.4 RRO AMOUNT: 17.39651

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0008.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.267	200.	470.063	235.03	75-125



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1017HP509r, CAL5 ;1017HP5 , 1000 ug per mL Triacontane
Raw File: G:\org\HP5\DAT\HP5101721_b\1017HP5.0009.RAW
Date & Time Acquired: 10/17/2021 6:20:57 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AA-L0.met
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.275	500.	937.265	187.45	-

RRO Area:979213.9 RRO AMOUNT: 34.30733

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5101721_b\1017HP5.0009.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.275	200.	937.265	468.63	75-125

Write Sequence	Insert Entries(Have the first cell for entries selecte							
Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integration
G:\org\HP5\DAT\HP5101721_b\1017HP5.01r	DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-HS-LEXP.met	1	1	1	1	0	No integration
G:\org\HP5\DAT\HP5101721_b\1017HP5.02r	DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-HS-LEXP.met	1	1	1	1	0	No integration
G:\org\HP5\DAT\HP5101721_b\1017HP5.03r	CCV_1017HP503r, DRO ;1017HP5 , DRO210708A	G:\Org\HP5\Methods\DR_8015-HS-LEXP.met	1	1	1	1	0	No integration
G:\org\HP5\DAT\HP5101721_b\1017HP5.04r	DCM-Baseline Check-V04	G:\Org\HP5\Methods\DR_8015-HS-LEXP.met	1	1	1	1	0	No integration
G:\org\HP5\DAT\HP5101721_b\1017HP5.05r	CCV_1017HP505r, CAL1 ;1017HP5 , 2 ug per mL Triacontane (10 uL of Cal3 + 990 uL DCM(14354)	G:\Org\HP5\Methods\DS_ORO-AA-L0.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.18 and slightly after the surrogate peak at 16.45 and scaling showing surrogate peak from 15.0-17.0
G:\org\HP5\DAT\HP5101721_b\1017HP5.06r	CCV_1017HP506r, CAL2 ;1017HP5 , 50 ug per mL Triacontane (100 uL Cal4 + 900 uL of DCM(14354)	G:\Org\HP5\Methods\DS_ORO-AA-L0.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.18 and slightly after the surrogate peak at 16.45 and scaling showing surrogate peak from 15.0-17.0
G:\org\HP5\DAT\HP5101721_b\1017HP5.07r	CCV_1017HP507r, CAL3 ;1017HP5 , 200 ug per mL Triacontane (100uL of Cal5 + 400 uL DCM(14354)	G:\Org\HP5\Methods\DS_ORO-AA-L0.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.18 and slightly after the surrogate peak at 16.45 and scaling showing surrogate peak from 15.0-17.0
G:\org\HP5\DAT\HP5101721_b\1017HP5.08r	CCV_1017HP508r, CAL4 ;1017HP5 , 500 ug per mL Triacontane (250uL of Cal5 + 250 uL DCM(14354)	G:\Org\HP5\Methods\DS_ORO-AA-L0.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.18 and slightly after the surrogate peak at 16.45 and scaling showing surrogate peak from 15.0-17.0
G:\org\HP5\DAT\HP5101721_b\1017HP5.09r	CCV_1017HP509r, CAL5 ;1017HP5 , 1000 ug per mL Triacontane (500 uL 2000 ug/mL Triacontane DRO211006A + 500 DCM(14354)	G:\Org\HP5\Methods\DS_ORO-AA-L0.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.18 and slightly after the surrogate peak at 16.45 and scaling showing surrogate peak from 15.0-17.0

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

PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **1/4/2022 4:45:04 PM**

Prep Batch **162703** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **1/6/2022 12:29:00 PM**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
MB-162703			1000	0	0	1.00	0.001		1/4/2022	1/5/2022
Start time: 01/04/2022 at 4:45 PM. End time: 01/05/2022 at 10:47 AM SGT was done by ALN on remainder of sample on 1/7/2022.										
LCS-162703			1000	0	0	1.00	0.001		1/4/2022	1/5/2022
All bottles were completely used, defaced and disposed of on 01/04/2022 GT was done by ALN on remainder of sample on 1/7/2022.										
LCSD-162703			1000	0	0	1.00	0.001		1/4/2022	1/5/2022
GT was done by ALN on remainder of sample on 1/7/2022.										
LCSD-162703-RRO			1000	0	0	1.00	0.001		1/4/2022	1/5/2022
GT was done by ALN on remainder of sample on 1/7/2022.										
LCS-162703-RRO			1000	0	0	1.00	0.001		1/4/2022	1/5/2022
GT was done by ALN on remainder of sample on 1/7/2022.										
B22010096-001D	Ground Water	2	1010	0	0	1.00	0.00099		1/4/2022	1/5/2022
Bottle 1/2 Clear GT was done by ALN on remainder of sample on 1/7/2022.										
B22010096-001DMS	Ground Water	2	1030	0	0	1.00	0.000971		1/4/2022	1/5/2022
Bottle 2/2 Clear GT was done by ALN on remainder of sample on 1/7/2022.										
B22010120-001D	Ground Water	2	1000	0	0	1.00	0.001		1/4/2022	1/5/2022
Bottle 1/2 Clear GT was done by ALN on remainder of sample on 1/7/2022.										
B22010120-001DMS-RRO	Ground Water	2	1030	0	0	1.00	0.000971		1/4/2022	1/5/2022
Bottle 2/2 Clear GT was done by ALN on remainder of sample on 1/7/2022.										
B22010134-001D	Ground Water	2	1040	0	0	1.00	0.000962		1/4/2022	1/5/2022
Bottle 1/2 Clear GT was done by ALN on remainder of sample on 1/7/2022.										
B22010141-001D	Ground Water	2	1030	0	0	1.00	0.000971		1/4/2022	1/5/2022
Bottle 1/2 Light sediment.										
B22010142-001D	Ground Water	2	970	0	0	1.00	0.00103		1/4/2022	1/5/2022
Bottle 1/2 Clear										
B22010143-001D	Ground Water	2	1050	0	0	1.00	0.000952		1/4/2022	1/5/2022
Bottle 1/2 Clear SGT was done by ALN on remainder of sample on 1/7/2022.										
B22010145-001D	Ground Water	2	1000	0	0	1.00	0.001		1/4/2022	1/5/2022
Bottle 1/2 Clear SGT was done by ALN on remainder of sample on 1/7/2022.										

Number	Reagent Name	Exp Date	
11	Carbon Filter Water	1/1/2023	
13379	PTFE Boiling Stones 27463755	12/30/2025	
14206	pH-indicator Strips 0-14 HC160347	8/26/2026	
14563	4ML, Amber Vial, 171001407106	11/30/2022	
14647	Dichloromethane EC832	10/28/2023	
14719	4ML, Amber Vial, 20220104	1/4/2027	

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP220102 14446	DCM RINSED FILTER PAPER	all	1	4/6/2026
SG220101(13376)	Baked Silica Gel	all	5g	2/28/2030
Sulfate 12/27/21 (	Baked Sodium Sulfate	all	Varies	11/29/2026
DRO211213A	OTP only SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
DRO211012B	#2 Diesel in Acetone 150,000 ug/mL	LCS, LCSD, MS	100 uL	11/5/2023
DRO210902A	50,000 ug/mL Oil Std for RRO-In D	LCS/D-RRO, MS-	100 uL	9/1/2026
DRO211220D	Triacontane SURR 1000 ug/mL	Lines 1-15 except	100 uL	4/6/2026
DRO220105A	Triacontane SURR 1000 ug/mL	Lines 15-23 excep	100 uL	4/6/2026

PREP BATCH REPORT

Prep Code: **HC-3520-DRO** Technician: **Jillian L Bostwick** Prep Start Date: **1/4/2022 4:45:04 PM**

Prep Batch **162703** Prep Temp **NA °C** Batch Units: **ML** Prep End Date: **1/6/2022 12:29:00 PM**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
B22010148-001D	Ground Water	2	1040	0	0	1.00	0.000962		1/4/2022	1/5/2022
Bottle 1/2 Clear										
B22010209-001D	Ground Water	2	1040	0	0	1.00	0.000962		1/5/2022	1/6/2022
Bottle 1/2 Clear. Lines 16-22 Start time: 01/05/2022 at 2:55 PM. End time: 01/06/2022 at 8:55 AM										
B22010211-001D	Ground Water	2	1030	0	0	1.00	0.000971		1/5/2022	1/6/2022
Bottle 1/2 Turbid, light sediment.										
B22010212-001D	Ground Water	2	1050	0	0	1.00	0.000952		1/5/2022	1/6/2022
Bottle 1/2 Clear										
B22010213-001D	Ground Water	2	1030	0	0	1.00	0.000971		1/5/2022	1/6/2022
Bottle 1/2 Clear										
B22010213-002B	Ground Water	2	1000	0	0	1.00	0.001		1/5/2022	1/6/2022
Bottle 1/2 Clear										
B22010213-003D	Ground Water	2	1020	0	0	1.00	0.00098		1/5/2022	1/6/2022
Bottle 1/2 Clear										
B22010214-001D	Ground Water	2	1050	0	0	1.00	0.000952		1/5/2022	1/6/2022
Bottle 1/2 Clear										
B22010219-001D	Drinking Water	2	1000	0	0	1.00	0.001		1/5/2022	1/6/2022
Bottle 1/2 Clear Start time: 01/05/2022 at 3:15 PM. End time: 01/06/2022 at 9:15 AM.										

Number	Reagent Name	Exp Date	
11	Carbon Filter Water	1/1/2023	
13379	PTFE Boiling Stones 27463755	12/30/2025	
14206	pH-indicator Strips 0-14 HC160347	8/26/2026	
14563	4ML, Amber Vial, 171001407106	11/30/2022	
14647	Dichloromethane EC832	10/28/2023	
14719	4ML, Amber Vial, 20220104	1/4/2027	

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP220102 14446	DCM RINSED FILTER PAPER	all	1	4/6/2026
SG220101(13376)	Baked Silica Gel	all	5g	2/28/2030
Sulfate 12/27/21 (	Baked Sodium Sulfate	all	Varies	11/29/2026
DRO211213A	OTP only SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
DRO211012B	#2 Diesel in Acetone 150,000 ug/mL	LCS, LCSD, MS	100 uL	11/5/2023
DRO210902A	50,000 ug/mL Oil Std for RRO-In D	LCS/D-RRO, MS-	100 uL	9/1/2026
DRO211220D	Triacontane SURR 1000 ug/mL	Lines 1-15 except	100 uL	4/6/2026
DRO220105A	Triacontane SURR 1000 ug/mL	Lines 15-23 excep	100 uL	4/6/2026

Energy Laboratories Inc

ANALYTICAL RUN Summary

10-Jan-22

Run ID GCFID-HP5-B_220106A

Run Start Date: 1/6/2022
Analyst: Ann Nebel
Ical:
Column ID:
Comments: DRO-8015-ICAL information is in Index GCFID-HP5-B_211102A 8015C OIL range calibration GCFID-HP5-B_210218B

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO211220B	Carbon Scan STD-Marker					MARKER	3/5/2028
DRO220105B	8015 CCV-15,000ug/mL + 200 OTP					CCV-DRO	4/30/2023
DRO220106A	5,000 ug/mL RRO CCV 200 ug/mL Triacontane					CCV-RRO	4/6/2026

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967547	CCV_0106HP50	HC-8015-DRO-	CCV		1/6/2022 9:56:57	1	R372834		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		4.49463037		5	0	0	0.0879	0.3	0	90%	80	120	0%	
n-Triacontane	S	mg/L		0.2061814		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
14967548	CCV_0106HP50	HC-8015-DRO-	CCV		1/6/2022 10:40:0	1	R372834		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		16.68486		15	0	0	0.0389	0.3	0	111%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		17.29743		15	0	0	0.0749	0.3	50	115%	80	120	0%	
o-Terphenyl	S	mg/L		0.2199382		0.2	0	0	0.000429	0.002	0	110%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967549	LCS-162703	HC-8015-DRO-	LCS-DOD		1/6/2022 12:06:3	1	162703	1/4/2022 4:4	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
14967549	LCS-162703	HC-8015-DRO-	LCS-DOD		1/6/2022 12:06:3	1	162703	1/4/2022 4:4	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		17.38333		15	0	0	0.0389	0.3	0	116%	36	132	0%	
Total Extractable Hydrocarbons	A	mg/L		18.58735		15	0	0	0.0749	0.3	50	124%	60	132	0%	
o-Terphenyl	S	mg/L		0.2379754		0.2	0	0	0.000429	0.002	0	119%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967550	LCSD-162703	HC-8015-DRO-	LCSD-DOD		1/6/2022 12:49:3	1	162703	1/4/2022 4:4	0	1E+07	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		16.1535		15	0	17.38333	0.0389	0.3	0	108%	36	132	7%	
Total Extractable Hydrocarbons	A	mg/L		17.27746		15	0	18.58735	0.0749	0.3	50	115%	60	132	7%	
o-Terphenyl	S	mg/L		0.2280729		0.2	0	0	0.000429	0.002	0	114%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967551	MB-162703	HC-8015-DRO-	MBLK		1/6/2022 1:32:50	1	162703	1/4/2022 4:4	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		0.1291		0.1	0	0	0.000336	0.002	0	129%	50	150	0%	
o-Terphenyl	S	mg/L		0.2286053		0.2	0	0	0.000429	0.002	0	114%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967552	B22010096-001	HC-8015-DRO-	SAMP		1/6/2022 2:16:04	1	162703	1/4/2022 4:4	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		0.1224		0.099	0	0	0.0003326	0.00198	0	124%	50	150	0%	
o-Terphenyl	S	mg/L		0.2144008		0.198	0	0	0.0004247	0.002	0	108%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967553	B22010120-001	HC-8015-DRO-	SAMP		1/6/2022 2:59:14	1	162703	1/4/2022 4:4	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		0.2549659		0	0	0	0.0389	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40	A	mg/L		0.50763142		0	0	0	0.0879	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0.8623871		0	0	0	0.0749	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1248		0.1	0	0	0.000336	0.002	0	125%	50	150	0%	
o-Terphenyl	S	mg/L		0.1581854		0.2	0	0	0.000429	0.002	0	79%	56	125	0%	
TEH(Oil Range)	X	mg/L		0.79904789		0	0	0	0.0879	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
14967554	B22010096-001	HC-8015-DRO-	MS-DOD		1/6/2022 3:42:14	1	162703	1/4/2022 4:4	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		16.04183		14.565	0	0	0.0377719	0.3	0	110%	36	132	0%	
Total Extractable Hydrocarbons	A	mg/L		17.26941		14.565	0	0	0.0727279	0.3	50	119%	60	132	0%	
o-Terphenyl	S	mg/L		0.2190913		0.1942	0	0	0.0004166	0.002	0	113%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967555	B22010143-001	HC-8015-DRO-	SAMP		1/6/2022 5:10:38	1	162703	1/4/2022 4:4	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		0.16089213		0	0	0	0.0836808	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.2566702		0	0	0	0.0713048	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.1233		0.0952	0	0	0.0003199	0.001904	0	130%	50	150	0%	
o-Terphenyl	S	mg/L		0.2024247		0.1904	0	0	0.0004084	0.002	0	106%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967556	B22010148-001	HC-8015-DRO-	SAMP		1/6/2022 5:53:59	1	162703	1/4/2022 4:4	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		0.1024833		0	0	0	0.0374218	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40	A	mg/L		0.26625207		0	0	0	0.0845598	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.4836984		0	0	0	0.0720538	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1226		0.0962	0	0	0.0003232	0.001924	0	127%	50	150	0%	
o-Terphenyl	S	mg/L		0.2105761		0.1924	0	0	0.0004127	0.002	0	109%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967557	B22010212-001	HC-8015-DRO-	SAMP		1/6/2022 6:37:18	1	162703	1/5/2022 3:0	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		0.1112		0.0952	0	0	0.0003199	0.001904	0	117%	50	150	0%	
o-Terphenyl	S	mg/L		0.200652		0.1904	0	0	0.0004084	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
14967558	CCV_0106HP51	HC-8015-DRO-	CCV		1/6/2022 8:03:53	1	R372834		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		4.86592285		5	0	0	0.0879	0.3	0	97%	80	120	0%	
n-Triacontane	S	mg/L		0.2053518		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
14967559	CCV_0106HP51	HC-8015-DRO-	CCV		1/6/2022 8:47:05	1	R372834		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		15.32353		15	0	0	0.0389	0.3	0	102%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.87178		15	0	0	0.0749	0.3	50	106%	80	120	0%	
o-Terphenyl	S	mg/L		0.201982		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
14967560	B22010213-002	HC-8015-DRO-	SAMP		1/6/2022 10:13:5	1	162703	1/5/2022 3:0	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		1.62555		0	0	0	0.0389	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40	A	mg/L		0.29477289		0	0	0	0.0879	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		1.99444		0	0	0	0.0749	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1145		0.1	0	0	0.000336	0.002	0	115%	50	150	0%	
o-Terphenyl	S	mg/L		0.1865803		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
14967561	B22010213-001	HC-8015-DRO-	SAMP		1/6/2022 10:57:1	1	162703	1/5/2022 3:0	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		2.34331		0	0	0	0.0377719	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40	A	mg/L		0.57574695		0	0	0	0.0853509	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		3.028753		0	0	0	0.0727279	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1099		0.0971	0	0	0.0003263	0.001942	0	113%	50	150	0%	
o-Terphenyl	S	mg/L		0.1934539		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
14967562	B22010213-003	HC-8015-DRO-	SAMP		1/6/2022 11:40:3	1	162703	1/5/2022 3:0	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		0.1494143		0	0	0	0.038122	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40	A	mg/L		0.17452560		0	0	0	0.086142	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.393777		0	0	0	0.073402	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1105		0.098	0	0	0.0003293	0.00196	0	113%	50	150	0%	
o-Terphenyl	S	mg/L		0.1979284		0.196	0	0	0.0004204	0.002	0	101%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967563	B22010141-001	HC-8015-DRO-	SAMP		1/7/2022 1:07:28	1	162703	1/4/2022 4:4	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		0.1233		0.0971	0	0	0.0003263	0.001942	0	127%	50	150	0%	
o-Terphenyl	S	mg/L		0.2201778		0.1942	0	0	0.0004166	0.002	0	113%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967564	B22010214-001	HC-8015-DRO-	SAMP		1/7/2022 1:50:50	1	162703	1/5/2022 3:0	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		0.0379938		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		0.1065		0.0952	0	0	0.0003199	0.001904	0	112%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967564	B22010214-001	HC-8015-DRO-	SAMP		1/7/2022 1:50:50	1	162703	1/5/2022 3:0	0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.1892108		0.1904	0	0	0.0004084	0.002	0	99%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967565	B22010219-001	HC-8015-DRO-	SAMP		1/7/2022 2:34:15	1	162703	1/5/2022 3:1	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		0.05663655		0	0	0	0.0389	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40	A	mg/L		0.12452009		0	0	0	0.0879	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.2349372		0	0	0	0.0749	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.1135		0.1	0	0	0.000336	0.002	0	114%	50	150	0%	
o-Terphenyl	S	mg/L		0.2005624		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
14967566	B22010211-001	HC-8015-DRO-	SAMP		1/7/2022 3:17:33	10	162703	1/5/2022 3:0	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		171.1043		0	0	0	0.377719	2.913	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		173.8855		0	0	0	0.727279	2.913	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1129		0.0971	0	0	0.0032626	0.01942	0	116%	50	150	0%	
o-Terphenyl	S	mg/L		0.1906986		0.1942	0	0	0.0041656	0.01942	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
14967567	B22010134-001	HC-8015-DRO-	SAMP		1/7/2022 4:44:24	1	162703	1/4/2022 4:4	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		0.03859679		0	0	0	0.0374218	0.3	0	0%	0	0	0%	J
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		0.1321		0.0962	0	0	0.0003232	0.001924	0	137%	50	150	0%	
o-Terphenyl	S	mg/L		0.2283984		0.1924	0	0	0.0004127	0.002	0	119%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967568	B22010142-001	HC-8015-DRO-	SAMP		1/7/2022 5:27:56	1	162703	1/4/2022 4:4	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	0.040067	0.309	0	0%	0	0	0%	U
Oil Range Hydrocarbons (C24 to C40	A	mg/L		0		0	0	0	0.090537	0.309	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0		0	0	0	0.077147	0.309	50	0%	0	0	0%	U
n-Triacontane	S	mg/L		0.136		0.103	0	0	0.0003461	0.00206	0	132%	50	150	0%	
o-Terphenyl	S	mg/L		0.2392724		0.206	0	0	0.0004419	0.00206	0	116%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967569	B22010145-001	HC-8015-DRO-	SAMP		1/7/2022 6:11:21	1	162703	1/4/2022 4:4	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		0.2039307		0	0	0	0.0389	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40	A	mg/L		0.30494985		0	0	0	0.0879	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0.5771101		0	0	0	0.0749	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1351		0.1	0	0	0.000336	0.002	0	135%	50	150	0%	
o-Terphenyl	S	mg/L		0.2357238		0.2	0	0	0.000429	0.002	0	118%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967570	CCV_0106HP53	HC-8015-DRO-	CCV		1/7/2022 7:37:51	1	R372834		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		5.00354395		5	0	0	0.0879	0.3	0	100%	80	120	0%	
n-Triacontane	S	mg/L		0.212323		0.2	0	0	0.000336	0.002	0	106%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14967571	CCV_0106HP53	HC-8015-DRO-	CCV		1/7/2022 8:20:50	1	R372834		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		15.59393		15	0	0	0.0389	0.3	0	104%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		16.16666		15	0	0	0.0749	0.3	50	108%	80	120	0%	
o-Terphenyl	S	mg/L		0.2067635		0.2	0	0	0.000429	0.002	0	103%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14968255	B22010209-001	HC-8015-DRO-	SAMP		1/7/2022 10:02:4	1	162703	1/5/2022 3:0	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		0.14390659		0	0	0	0.0845598	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.2299943		0	0	0	0.0720538	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.1115		0.0962	0	0	0.0003232	0.001924	0	116%	50	150	0%	
o-Terphenyl	S	mg/L		0.2057355		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
14968256	B22010211-001	HC-8015-DRO-	SAMP		1/7/2022 10:45:5	1	162703	1/5/2022 3:0	0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Oil Range Hydrocarbons (C24 to C40	A	mg/L		0.63961971		0	0	0	0.0853509	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
14968257	LCS-162703-RR	HC-8015-DRO-	LCS-DOD		1/7/2022 12:16:0	1	162703	1/4/2022 4:4	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		5.51410723		5	0	0	0.0879	0.3	0	110%	41	113	0%	
n-Triacontane	S	mg/L		0.1103		0.1	0	0	0.000336	0.002	0	110%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14968258	LCSD-162703-R	HC-8015-DRO-	LCSD-DOD		1/7/2022 1:01:28	1	162703	1/4/2022 4:4	0	1E+07	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		5.66312313		5	0	5.5141072	0.0879	0.3	0	113%	41	113	3%	
n-Triacontane	S	mg/L		0.1139		0.1	0	0	0.000336	0.002	0	114%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14968259	B22010120-001	HC-8015-DRO-	MS-DOD		1/7/2022 1:44:11	1	162703	1/4/2022 4:4	1E+07	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		5.79162359		4.855	0.7990479	0	0.0853509	0.3	0	103%	41	113	0%	
n-Triacontane	S	mg/L		0.108		0.0971	0	0	0.0003263	0.002	0	111%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970019	CCV_0106HP54	HC-8015-DRO-	CCV		1/7/2022 3:09:41	1	R372834		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		5.23910889		5	0	0	0.0879	0.3	0	105%	80	120	0%	
n-Triacontane	S	mg/L		0.2179482		0.2	0	0	0.000336	0.002	0	109%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970020	CCV_0106HP54	HC-8015-DRO-	CCV		1/7/2022 3:52:32	1	R372834		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		16.06031		15	0	0	0.0389	0.3	0	107%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		16.63664		15	0	0	0.0749	0.3	50	111%	80	120	0%	
o-Terphenyl	S	mg/L		0.2124345		0.2	0	0	0.000429	0.002	0	106%	80	120	0%	

Energy Laboratories Inc

ANALYTICAL RUN Summary

10-Jan-22

Run ID GCFID-HP5-B_220106B

Run Start Date: 1/6/2022
Analyst: Ann Nebel
Ical:
Column ID:
Comments: DRO-8015-ICAL information is in Index GCFID-HP5-B_211102A 8015C OIL range calibration GCFID-HP5-B_210218B

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO211220B	Carbon Scan STD-Marker					MARKER	3/5/2028
DRO220105B	8015 CCV-15,000ug/mL + 200 OTP					CCV-DRO	4/30/2023
DRO220106A	5,000 ug/mL RRO CCV 200 ug/mL Triacontane					CCV-RRO	4/6/2026

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970200	CCV_0106HP54	HC-8015-DRO-	CCV		1/7/2022 6:48:53	1	R372779		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		5.22134521		5	0	0	0.0879	0.3	0	104%	80	120	0%	
n-Triacontane	S	mg/L		0.2199067		0.2	0	0	0.000336	0.002	0	110%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970201	CCV_0106HP55	HC-8015-DRO-	CCV		1/7/2022 7:32:37	1	R372779		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		15.91944		15	0	0	0.0389	0.3	0	106%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		16.49996		15	0	0	0.0749	0.3	50	110%	80	120	0%	
o-Terphenyl	S	mg/L		0.2107848		0.2	0	0	0.000429	0.002	0	105%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970202	LCS-162703	HC-8015-DRO-	LCS-DOD		1/7/2022 9:00:15	1	162703	1/4/2022 4:4	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
14970202	LCS-162703	HC-8015-DRO-	LCS-DOD		1/7/2022 9:00:15	1	162703	1/4/2022 4:4	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		17.34459		15	0	0	0.0389	0.3	0	116%	36	132	0%	
Total Extractable Hydrocarbons (SGT	A	mg/L		18.48505		15	0	0	0.0329	0.3	0	123%	60	132	0%	
o-Terphenyl (SGT)	S	mg/L		0.2462814		0.2	0	0	0.000429	0.002	0	123%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970203	LCSD-162703	HC-8015-DRO-	LCSD-DOD		1/7/2022 9:44:02	1	162703	1/4/2022 4:4	0	1E+07	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		15.68807		15	0	17.34459	0.0389	0.3	0	105%	36	132	10%	
Total Extractable Hydrocarbons (SGT	A	mg/L		16.72927		15	0	18.48505	0.0329	0.3	0	112%	60	132	10%	
o-Terphenyl (SGT)	S	mg/L		0.2308598		0.2	0	0	0.000429	0.002	0	115%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970204	MB-162703	HC-8015-DRO-	MBLK		1/7/2022 10:27:4	1	162703	1/4/2022 4:4	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		0.1318		0.1	0	0	0.000336	0.002	0	132%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.2434146		0.2	0	0	0.000429	0.002	0	122%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970205	B22010096-001	HC-8015-DRO-	SAMP		1/7/2022 11:11:3	1	162703	1/4/2022 4:4	0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		0		0	0	0	0.038511	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.087021	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.032571	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.1145		0.099	0	0	0.0003326	0.00198	0	116%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.2118119		0.198	0	0	0.0004247	0.00198	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
14970206	B22010120-001	HC-8015-DRO-	SAMP		1/7/2022 11:55:2	1	162703	1/4/2022 4:4	0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		0		0	0	0	0.0389	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0879	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0.07363102		0	0	0	0.0329	0.3	0	0%	0	0	0%	J
n-Triacontane (SGT)	S	mg/L		0.1339		0.1	0	0	0.000336	0.002	0	134%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.178222		0.2	0	0	0.000429	0.002	0	89%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970207	B22010096-001	HC-8015-DRO-	MS-DOD		1/8/2022 12:39:0	1	162703	1/4/2022 4:4	1E+07	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		15.30911		14.565	0	0	0.0377719	0.3	0	105%	36	132	0%	
Total Extractable Hydrocarbons (SGT	A	mg/L		16.23346		14.565	0	0	0.0319459	0.3	0	111%	60	132	0%	
o-Terphenyl (SGT)	S	mg/L		0.2274672		0.1942	0	0	0.0004166	0.002	0	117%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970208	B22010143-001	HC-8015-DRO-	SAMP		1/8/2022 2:06:36	1	162703	1/4/2022 4:4	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		0.0349916		0	0	0	0.0313208	0.3	0	0%	0	0	0%	J
n-Triacontane (SGT)	S	mg/L		0.1232		0.0952	0	0	0.0003199	0.001904	0	129%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.2122402		0.1904	0	0	0.0004084	0.001904	0	111%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970209	B22010148-001	HC-8015-DRO-	SAMP		1/8/2022 2:50:20	1	162703	1/4/2022 4:4	0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		0		0	0	0	0.0374218	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0845598	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0.04005166		0	0	0	0.0316498	0.3	0	0%	0	0	0%	J
n-Triacontane (SGT)	S	mg/L		0.1172		0.0962	0	0	0.0003232	0.001924	0	122%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.2036619		0.1924	0	0	0.0004127	0.001924	0	106%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970210	B22010213-002	HC-8015-DRO-	SAMP		1/8/2022 3:34:03	1	162703	1/5/2022 3:0	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		0.9601996		0	0	0	0.0389	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0.15334992		0	0	0	0.0879	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons (SGT	A	mg/L		1.117128		0	0	0	0.0329	0.3	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.1107		0.1	0	0	0.000336	0.002	0	111%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1731752		0.2	0	0	0.000429	0.002	0	87%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970211	B22010213-001	HC-8015-DRO-	SAMP		1/8/2022 4:17:47	1	162703	1/5/2022 3:0	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		1.837147		0	0	0	0.0377719	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0.14640617		0	0	0	0.0853509	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons (SGT	A	mg/L		2.008267		0	0	0	0.0319459	0.3	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.1186		0.0971	0	0	0.0003263	0.001942	0	122%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.2160624		0.1942	0	0	0.0004166	0.001942	0	111%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970212	B22010213-003	HC-8015-DRO-	SAMP		1/8/2022 5:01:27	1	162703	1/5/2022 3:0	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		0.0574428		0	0	0	0.032242	0.3	0	0%	0	0	0%	J
n-Triacontane (SGT)	S	mg/L		0.108		0.098	0	0	0.0003293	0.00196	0	110%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1830839		0.196	0	0	0.0004204	0.00196	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
14970213	CCV_0106HP56	HC-8015-DRO-	CCV		1/8/2022 6:28:41	1	R372779		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		4.89038232		5	0	0	0.0879	0.3	0	98%	80	120	0%	
n-Triacontane	S	mg/L		0.2079595		0.2	0	0	0.000336	0.002	0	104%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970214	CCV_0106HP56	HC-8015-DRO-	CCV		1/8/2022 7:12:23	1	R372779		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		16.01832		15	0	0	0.0389	0.3	0	107%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		16.60765		15	0	0	0.0749	0.3	50	111%	80	120	0%	
o-Terphenyl	S	mg/L		0.2121548		0.2	0	0	0.000429	0.002	0	106%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970215	B22010214-001	HC-8015-DRO-	SAMP		1/8/2022 8:38:56	1	162703	1/5/2022 3:0	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		0.0974		0.0952	0	0	0.0003199	0.001904	0	102%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1578127		0.1904	0	0	0.0004084	0.001904	0	83%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970216	B22010134-001	HC-8015-DRO-	SAMP		1/8/2022 9:22:23	1	162703	1/4/2022 4:4	0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		0		0	0	0	0.0374218	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0845598	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.0316498	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.1142		0.0962	0	0	0.0003232	0.001924	0	119%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.2114862		0.1924	0	0	0.0004127	0.001924	0	110%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970217	B22010219-001	HC-8015-DRO-	SAMP		1/8/2022 10:05:4	1	162703	1/5/2022 3:1	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	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0879	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.0329	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.1104		0.1	0	0	0.000336	0.002	0	110%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1958082		0.2	0	0	0.000429	0.002	0	98%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970218	B22010145-001	HC-8015-DRO-	SAMP		1/8/2022 11:32:4	1	162703	1/4/2022 4:4	0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		0		0	0	0	0.0389	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0879	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.0329	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.1147		0.1	0	0	0.000336	0.002	0	115%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.2150379		0.2	0	0	0.000429	0.002	0	108%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970219	B22010209-001	HC-8015-DRO-	SAMP		1/8/2022 12:15:5	1	162703	1/5/2022 3:0	0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		0		0	0	0	0.0374218	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0845598	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.0316498	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.1185		0.0962	0	0	0.0003232	0.001924	0	123%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.2147862		0.1924	0	0	0.0004127	0.001924	0	112%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970220	B22010211-001	HC-8015-DRO-	SAMP		1/8/2022 12:59:1	5	162703	1/5/2022 3:0	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		153.9331		0	0	0	0.1888595	1.4565	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.4267545	1.4565	0	0%	0	0	0%	UO
Total Extractable Hydrocarbons (SGT	A	mg/L		155.0297		0	0	0	0.1597295	1.4565	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.1079		0.0971	0	0	0.0016313	0.00971	0	111%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1889196		0.1942	0	0	0.0020828	0.00971	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
14970221	LCS-162703-RR	HC-8015-DRO-	LCS-DOD		1/8/2022 1:42:17	1	162703	1/4/2022 4:4	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		4.85415936		5	0	0	0.0879	0.3	0	97%	41	113	0%	
n-Triacontane (SGT)	S	mg/L		0.0938		0.1	0	0	0.000336	0.002	0	94%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970222	LCSD-162703-R	HC-8015-DRO-	LCSD-DOD		1/8/2022 3:08:33	1	162703	1/4/2022 4:4	0	1E+07	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH (SGT-Oil Range)	A	mg/L		5.09171963		5	0	4.8541594	0.0879	0.3	0	102%	41	113	5%	
n-Triacontane (SGT)	S	mg/L		0.0983		0.1	0	0	0.000336	0.002	0	98%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970223	B22010120-001	HC-8015-DRO-	MS-DOD		1/8/2022 4:34:50	1	162703	1/4/2022 4:4	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		5.11005783		4.855	0	0	0.0853509	0.3	0	105%	41	113	0%	
n-Triacontane (SGT)	S	mg/L		0.1007		0.0971	0	0	0.0003263	0.002	0	104%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970224	CCV_0106HP58	HC-8015-DRO-	CCV		1/8/2022 6:01:44	1	R372779		0	0	

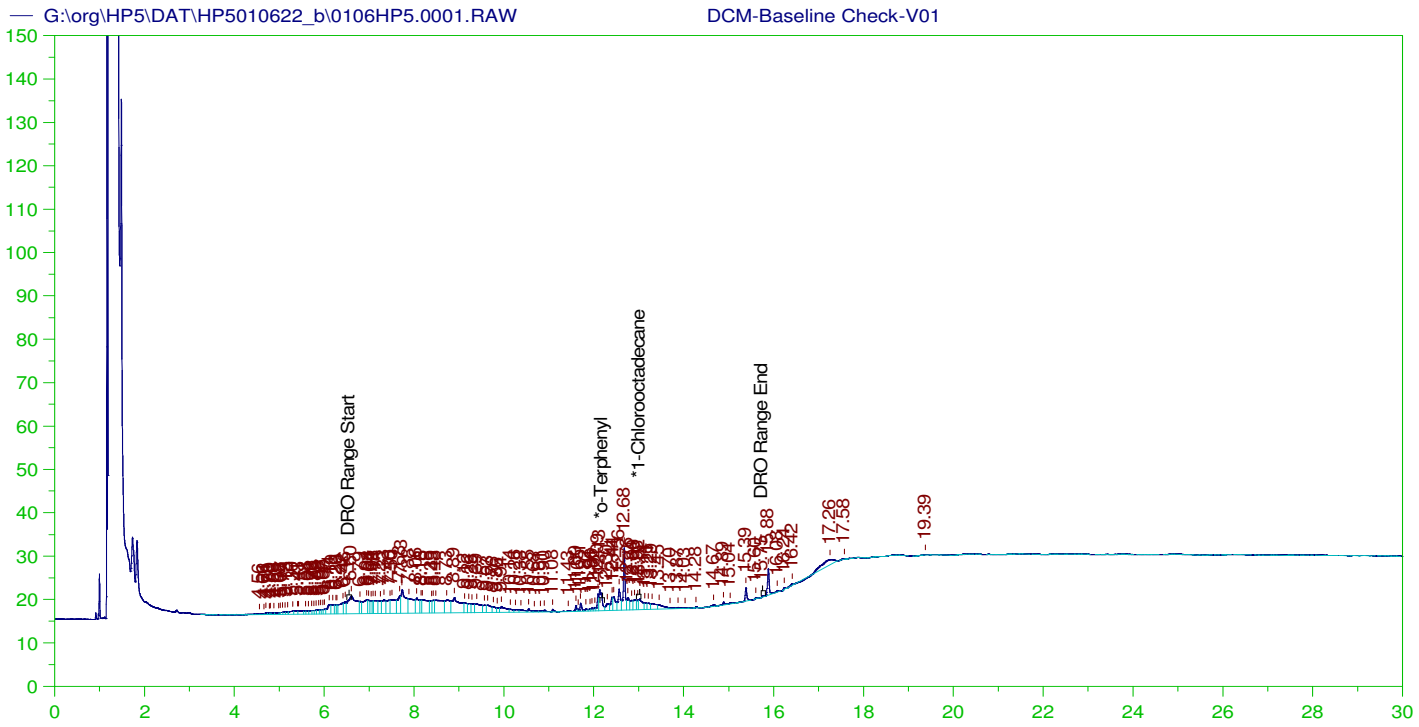
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		5.15023193		5	0	0	0.0879	0.3	0	103%	80	120	0%	
n-Triacontane	S	mg/L		0.2181202		0.2	0	0	0.000336	0.002	0	109%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14970225	CCV_0106HP58	HC-8015-DRO-	CCV		1/8/2022 6:45:09	1	R372779		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		16.20156		15	0	0	0.0389	0.3	0	108%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		16.79279		15	0	0	0.0749	0.3	50	112%	80	120	0%	
o-Terphenyl	S	mg/L		0.2145993		0.2	0	0	0.000429	0.002	0	107%	80	120	0%	

Write Sequence	Insert Entries(Have the first cell for entries selecte							
Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\org\HP5\DAT\HP5010622_b\0106HP5.01r	DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.02r	DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.03r	MARKER_0106HP503r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.04r	CCV_0106HP504r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.05r	CCV_0106HP505r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.06r	DCM-Baseline Check-V06	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.07r	LCS-162703 ;0106HP5 ,	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.08r	LCSD-162703 ;0106HP5 ,	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.09r	MB-162703 ;0106HP5 ,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.10r	B22010096-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1010	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.11r	B22010120-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-010611-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010611-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.12r	B22010096-001DMS ;0106HP5 ,	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.13r	DCM-Baseline Check-V13	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.14r	B22010143-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IN-L%.met G:\Org\HP5\Methods\D3_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.15r	B22010148-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-010615-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010615-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1040	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.16r	B22010212-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.17r	MARKER_0106HP517r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.18r	CCV_0106HP518r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.19r	CCV_0106HP519r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.20r	DCM-Baseline Check-V20	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.21r	B22010213-002B ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-010621-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010621-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.22r	B22010213-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-010621-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010621-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.23r	B22010213-003D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-010621-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010621-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1020	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.24r	DCM-Baseline Check-V24	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.25r	B22010141-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.26r	B22010214-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.27r	B22010219-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IN-L%.met G:\Org\HP5\Methods\D3_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.28r	B22010211-001D ;0106HP5 , $HC-8015-DRO-W, ,(1,10)	G:\Org\HP5\Methods\D3_8015-010628-IN-L%.met G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1030	10	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.29r	DCM-Baseline Check-V29	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.30r	B22010134-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1040	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.31r	B22010142-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	970	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.32r	B22010145-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-010632-IN-L%.met G:\Org\HP5\Methods\D3_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.33r	MARKER_0106HP533r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.34r	CCV_0106HP534r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.35r	CCV_0106HP535r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.36r	DCM-Baseline Check-V36	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.37r	B22010209-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-010637-IN-L%.met G:\Org\HP5\Methods\D3_OROS-010637-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1040	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.38r	B22010211-001D ;0106HP5 , $HC-8015-DRO-W, Oil range	G:\Org\HP5\Methods\D3_OROS-010638-AN-L%.MET	1030	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.39r	LCS-162703-RRO ;0106HP5 , GC vial cap was loose appear sample r	G:\Org\HP5\Methods\D3_ORO-AN-L0.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.40r	LCS-162703-RRO ;0106HP5 , RR	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.41r	LCSD-162703-RRO ;0106HP5 ,	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.42r	B22010120-001DMS-RRO ;0106HP5 ,	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1030	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.43r	MARKER_0106HP543r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.44r	CCV_0106HP544r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.45r	CCV_0106HP545r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0

Write Sequence	Insert Entries(Have the first cell for entries selecte							
Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\org\HP5\DAT\HP5010622_b\0106HP5.46r	DCM-Baseline Check-V46	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.47r	DCM-Baseline Check-V47	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.48r	MARKER_0106HP548r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106a.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.49r	CCV_0106HP549r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.50r	CCV_0106HP550r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.51r	DCM-Baseline Check-V51	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.52r	LCS-162703 ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.53r	LCSD-162703 ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.54r	MB-162703 ;0106HP5 , SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.55r	B22010096-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1010	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.56r	B22010120-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-010656-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010656-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.57r	B22010096-001DMS ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.58r	DCM-Baseline Check-V58	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.59r	B22010143-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.60r	B22010148-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1040	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.61r	B22010213-002B ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-010661-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010661-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.62r	B22010213-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-010662-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010662-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.63r	B22010213-003D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1020	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.64r	MARKER_0106HP564r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106a.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.65r	CCV_0106HP565r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.66r	CCV_0106HP566r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.67r	DCM-Baseline Check-V67	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.68r	B22010214-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.69r	B22010134-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1040	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.70r	B22010219-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.71r	DCM-Baseline Check-V71	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.72r	B22010145-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.73r	B22010209-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1040	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.74r	B22010211-001D ;0106HP5 , $HC-8015-DRO-W, SGT,,(1,5)	G:\Org\HP5\Methods\DR_8015-010674-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010674-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1030	5	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.75r	LCS-162703-RRO ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.76r	DCM-Baseline Check-V76	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.77r	LCSD-162703-RRO ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.78r	DCM-Baseline Check-V78	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.79r	B22010120-001DMS-RRO ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1030	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.80r	MARKER_0106HP580r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106a.met	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.81r	CCV_0106HP581r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5010622_b\0106HP5.82r	CCV_0106HP582r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0



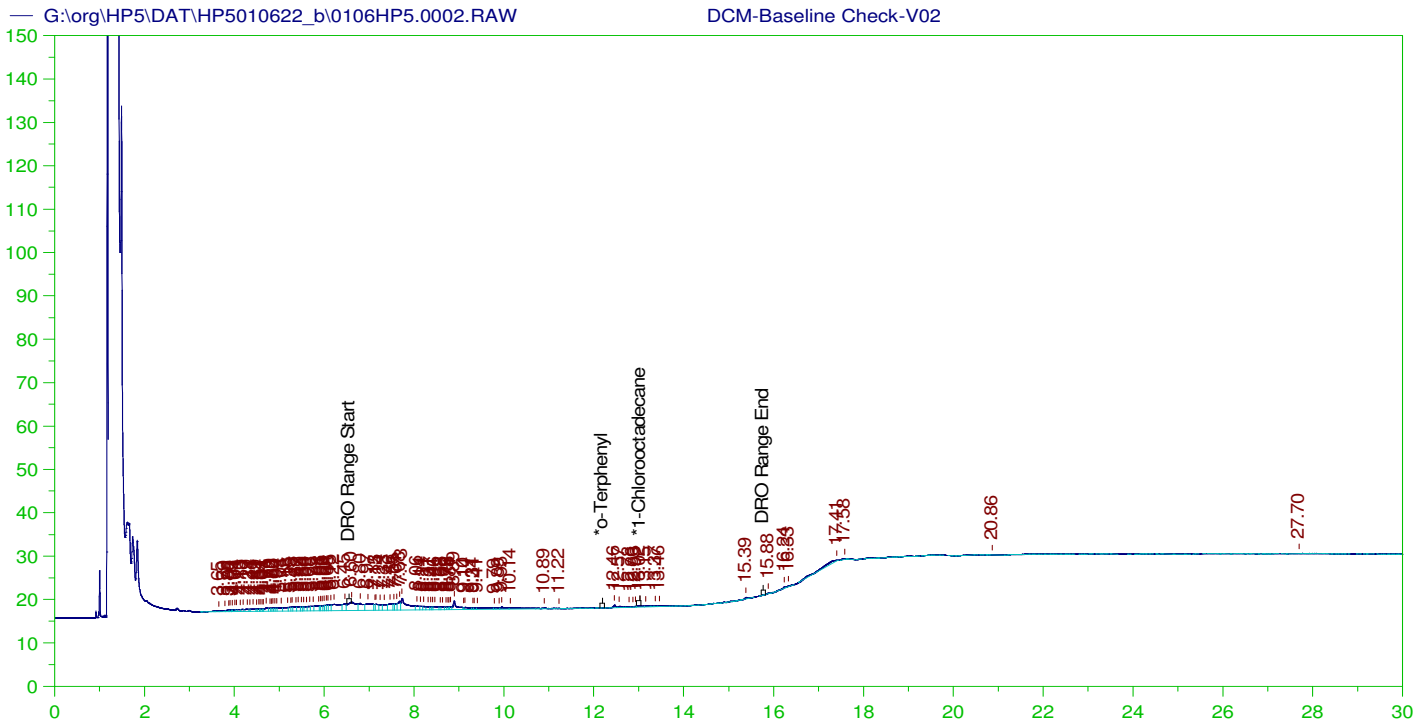
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V01
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0001.RAW
Date & Time Acquired: 1/6/2022 6:59:44 AM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.874	200.	.	-
*1-Chlorooctadecane	13.018	200.	.412	.21 -

DRO Area:809014.1 DRO Amount: 25.80324
TEH Area:982414.3 TEH Amount: 31.33379



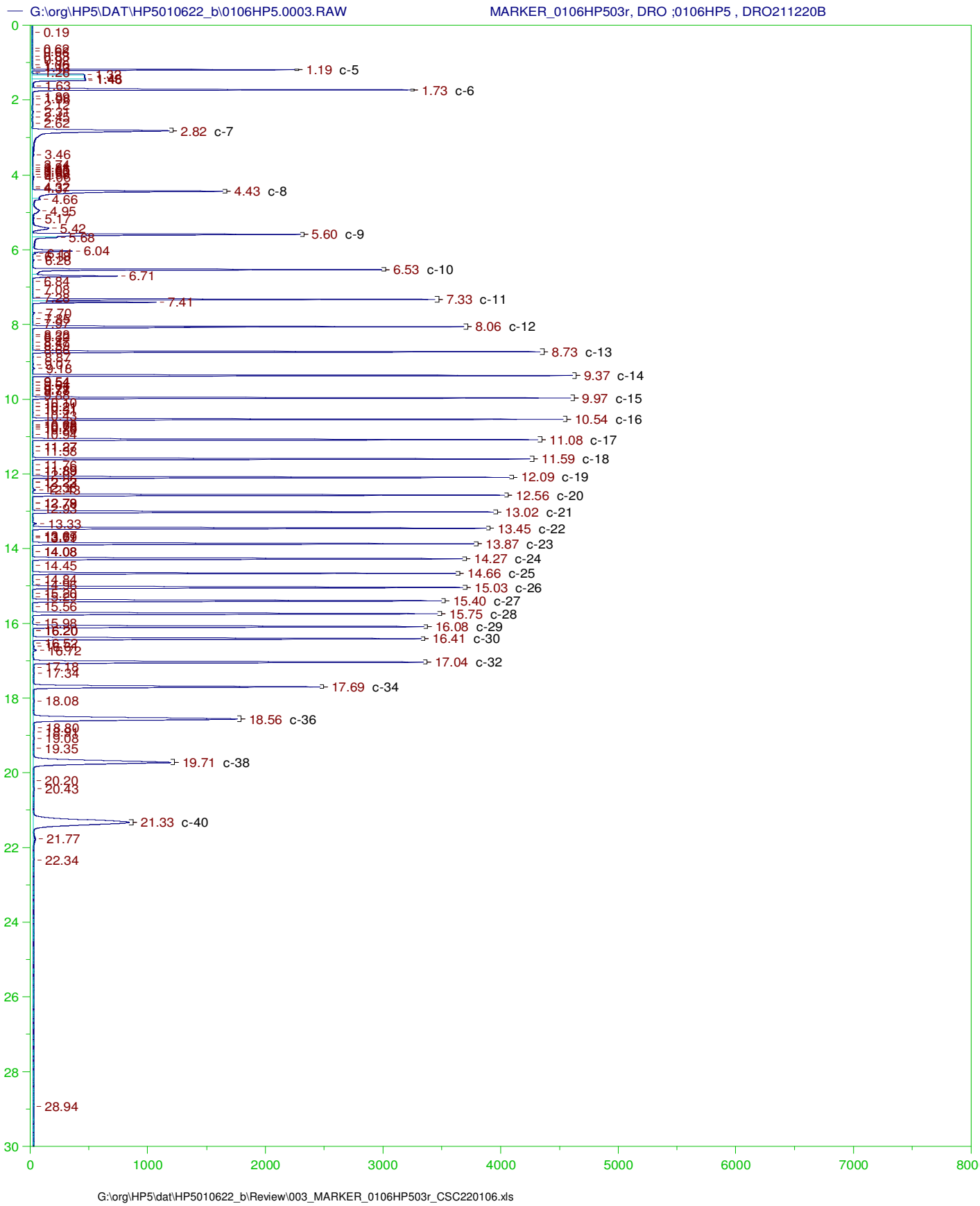
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V02
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0002.RAW
Date & Time Acquired: 1/6/2022 7:42:43 AM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.926	200.	.	. -
*1-Chlorooctadecane	13.022	200.	.072	.04 -

DRO Area:229372.9 DRO Amount: 7.315774
TEH Area:402772 TEH Amount: 12.84628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1.19 c-5
1.73 c-6
2.82 c-7
3.46
4.43 c-8
4.66
4.95
5.17
5.42
5.60 c-9
5.68
6.04
6.53 c-10
6.71
6.84
7.08
7.33 c-11
7.41
7.70
8.06 c-12
8.73 c-13
9.37 c-14
9.97 c-15
10.54 c-16
11.08 c-17
11.59 c-18
12.09 c-19
12.56 c-20
13.02 c-21
13.33
13.45 c-22
13.87 c-23
14.08
14.27 c-24
14.45
14.66 c-25
15.03 c-26
15.40 c-27
15.56
15.75 c-28
15.98
16.08 c-29
16.20
16.41 c-30
16.72
17.04 c-32
17.34
17.69 c-34
18.08
18.56 c-36
18.80
19.35
19.71 c-38
20.20
20.43
21.33 c-40
21.77
22.34
28.94
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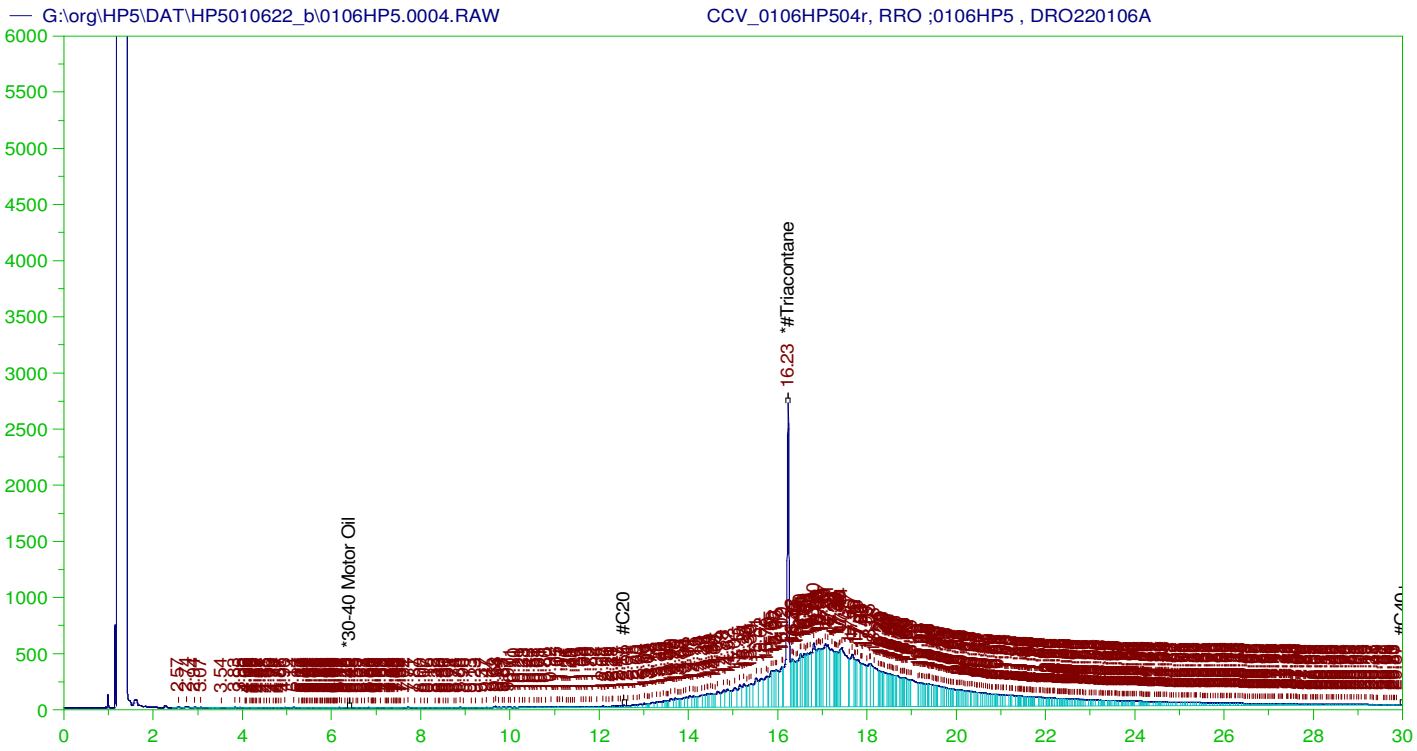


RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP504r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0004.RAW
Date & Time Acquired: 1/6/2022 9:56:57 AM
Method File: G:\Org\HP5\Methods\DC_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.229	500.	327.987	65.6	-

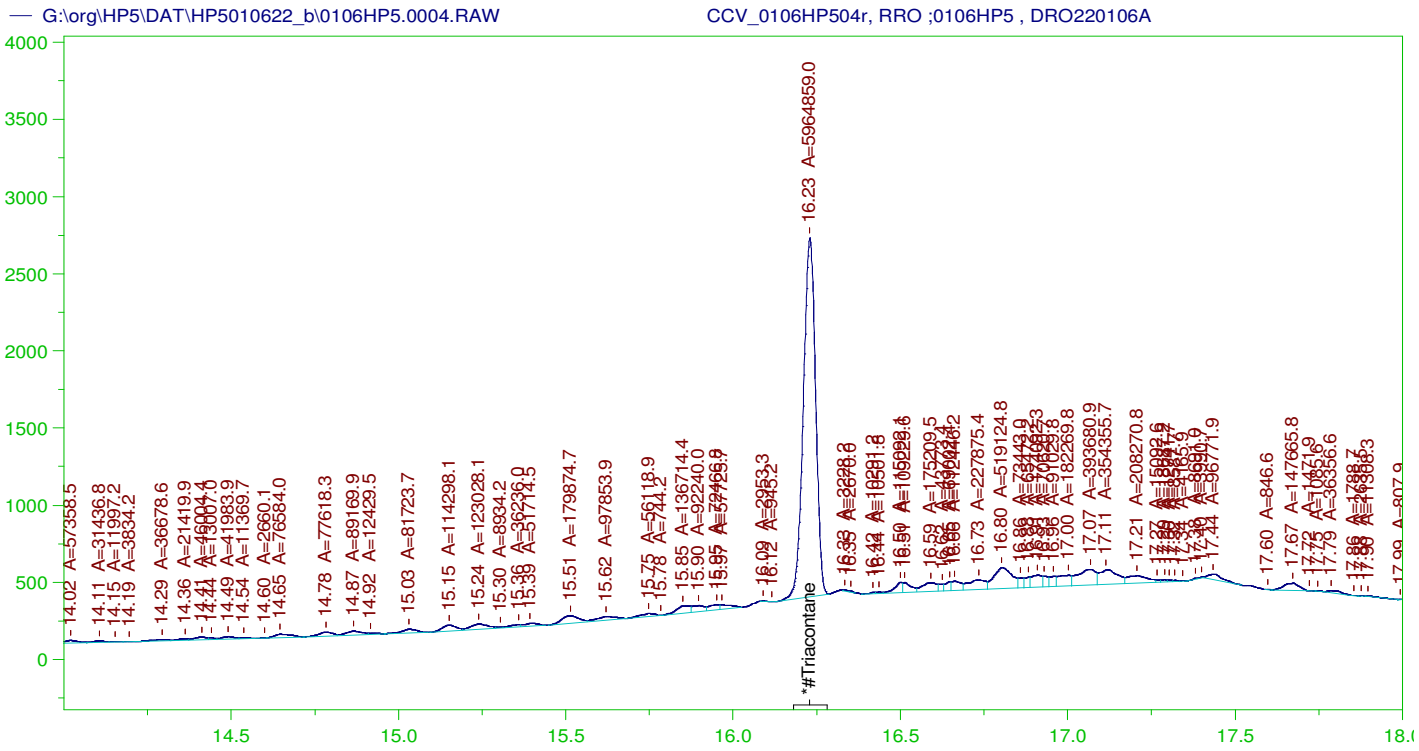
~~RRO~~ TEH (Oil Range) Area:1.282876E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 4494.63

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0004.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.035	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.229	200.	327.987	163.99	75-125

AMN 01/31/2022



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP504r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0004.RAW
Date & Time Acquired: 1/6/2022 9:56:57 AM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

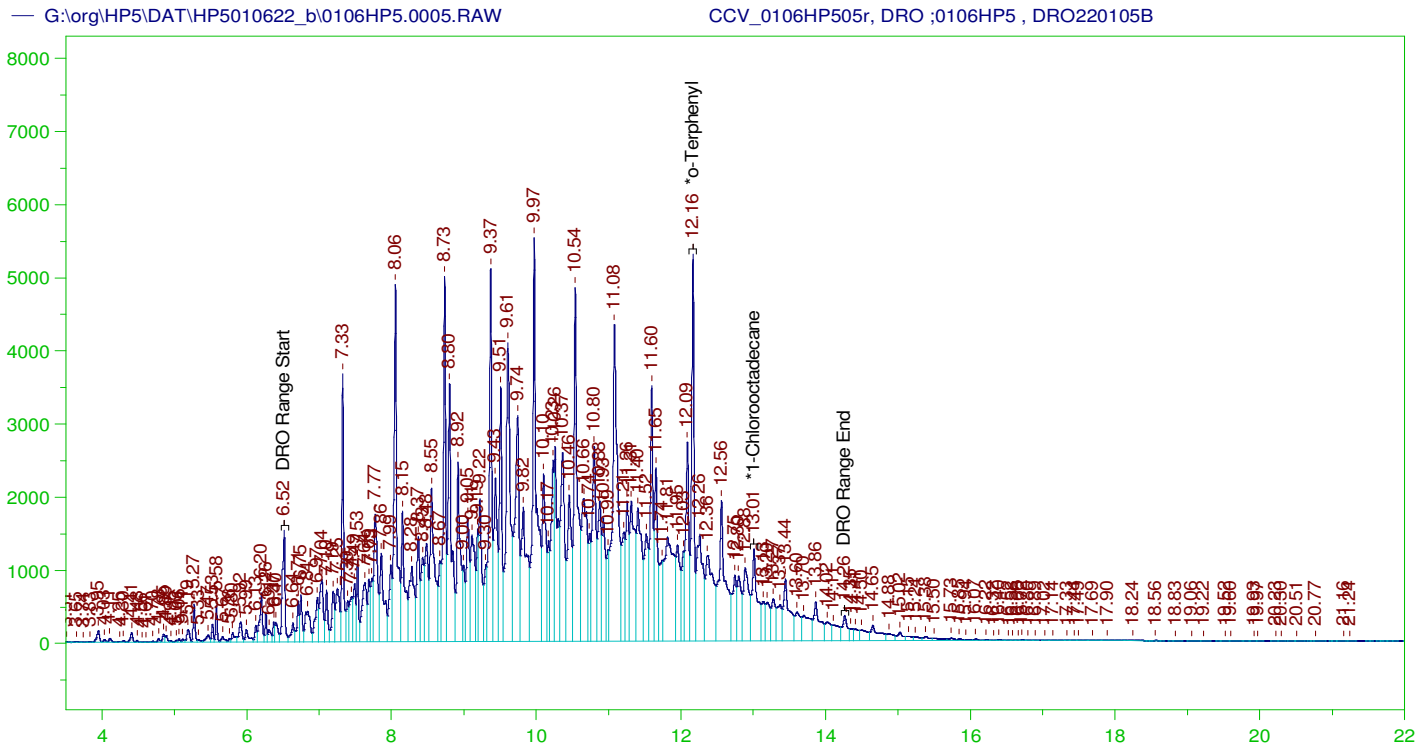
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.229	500.	206.181	41.24	-

RRO Area:5659553 RRO AMOUNT: 198.2857

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0004.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.035	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.229	200.	206.181	103.09	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP505r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0005.RAW
Date & Time Acquired: 1/6/2022 10:40:02 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

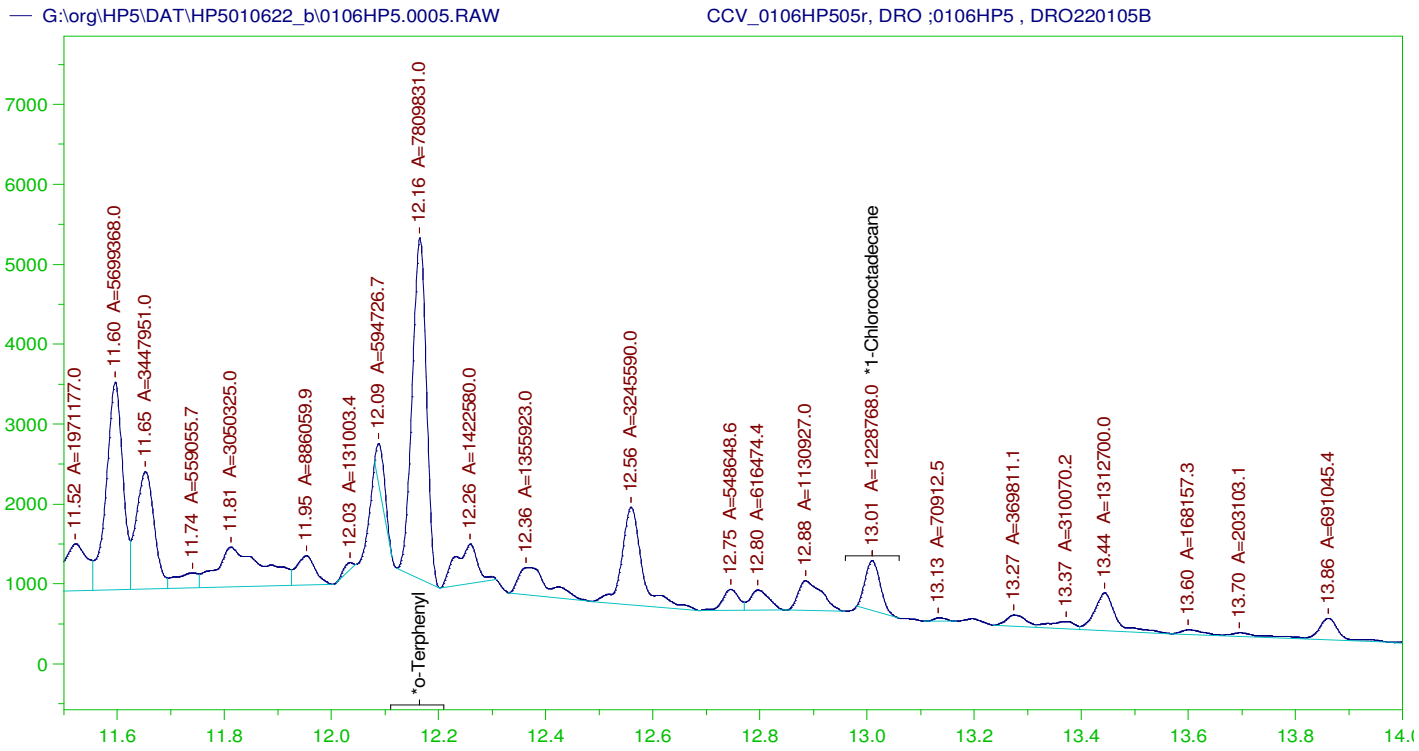
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.165	200.	361.684	180.84	-
*1-Chlorooctadecane	13.009	200.	182.542	91.27	-

DRO Area:5.231236E+08 DRO Amount: 16684.86
TEH Area:5.423295E+08 TEH Amount: 17297.43

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0005.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	17297.43	115.32	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.165	200.	361.684	180.84	85-115
*1-Chlorooctadecane	13.009	200.	182.542	91.27	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: CCV_0106HP505r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0005.RAW
Date & Time Acquired: 1/6/2022 10:40:02 AM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

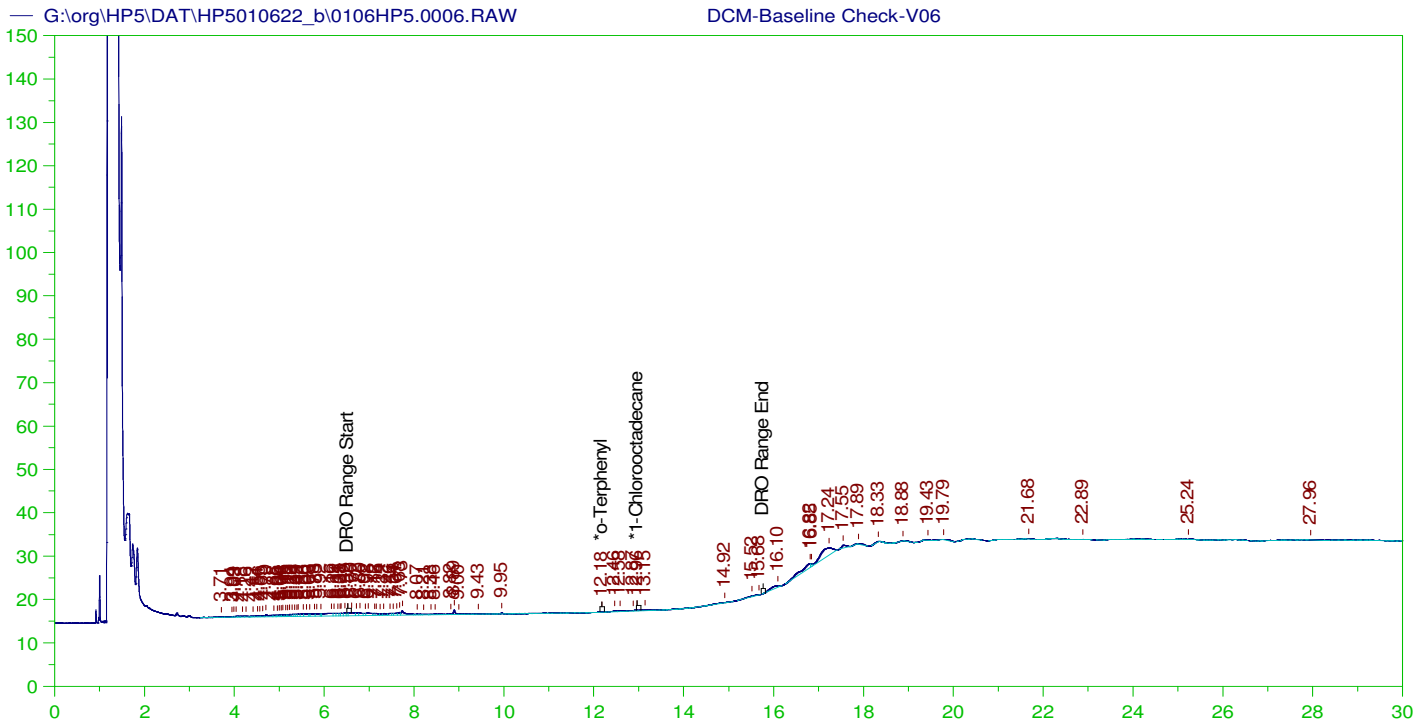
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.165	200.	219.938	109.97	-
*1-Chlorooctadecane	13.009	200.	34.604	17.3	-

DRO Area:2.900371E+08 DRO Amount: 9250.64
TEH Area:3.017861E+08 TEH Amount: 9625.37

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0005.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	9625.37	64.17	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.165	200.	219.938	109.97	85-115
*1-Chlorooctadecane	13.009	200.	34.604	17.3	85-115



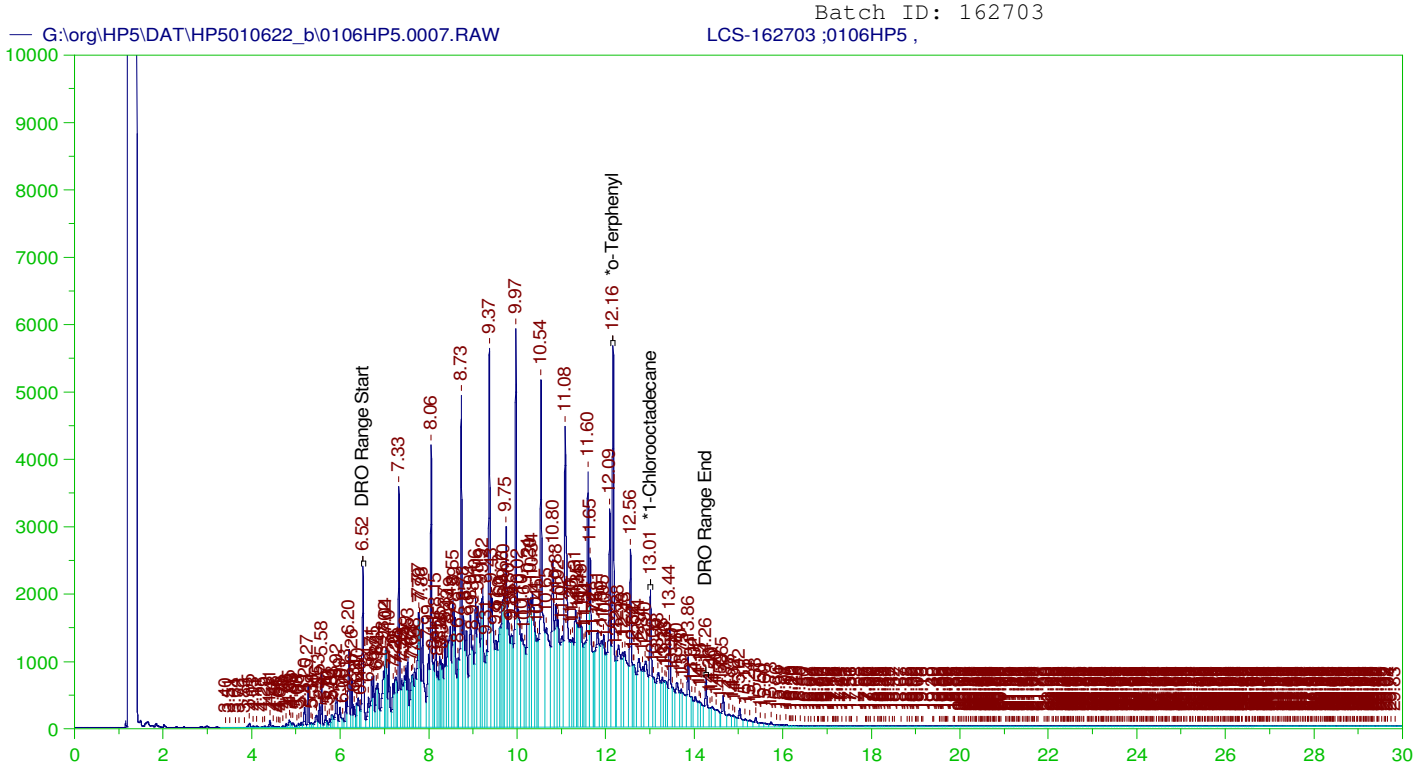
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: DCM-Baseline Check-V06
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0006.RAW
Date & Time Acquired: 1/6/2022 11:23:20 AM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.176	200.	.017	.01	-
*1-Chlorooctadecane	12.963	200.	.024	.01	-

DRO Area:75536.8 DRO Amount: 2.409222
TEH Area:235085.8 TEH Amount: 7.497986

Batch ID: 162703



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

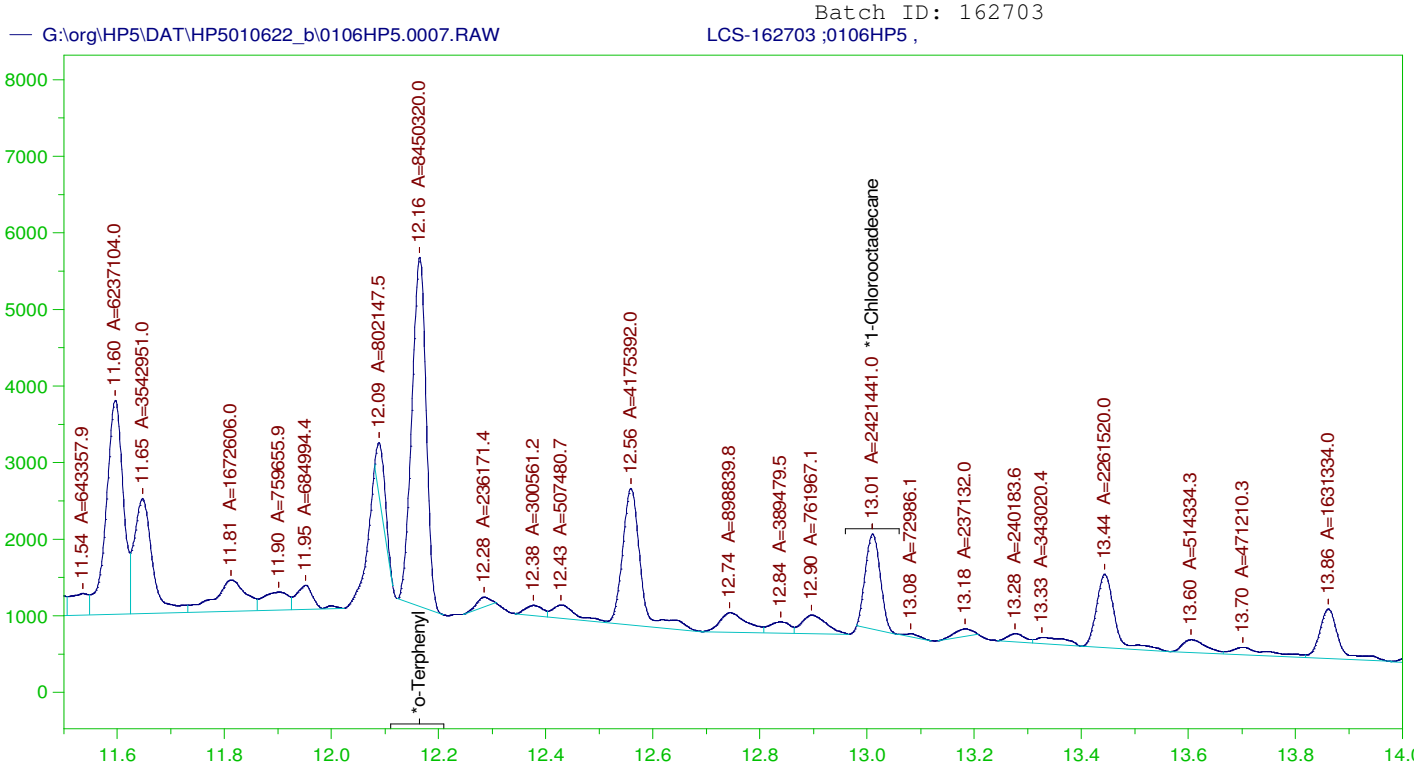
Sample Name: LCS-162703 ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0007.RAW
Date & Time Acquired: 1/6/2022 12:06:33 PM
Method File: G:\Org\HP5\Methods\D3_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.165	.2	.412	205.93	-
*1-Chlorooctadecane	13.01	.2	.191	95.5	-

DRO Area:5.450228E+08 DRO Amount: 17.38333
TEH Area:5.827727E+08 TEH Amount: 18.58735

Batch ID: 162703



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

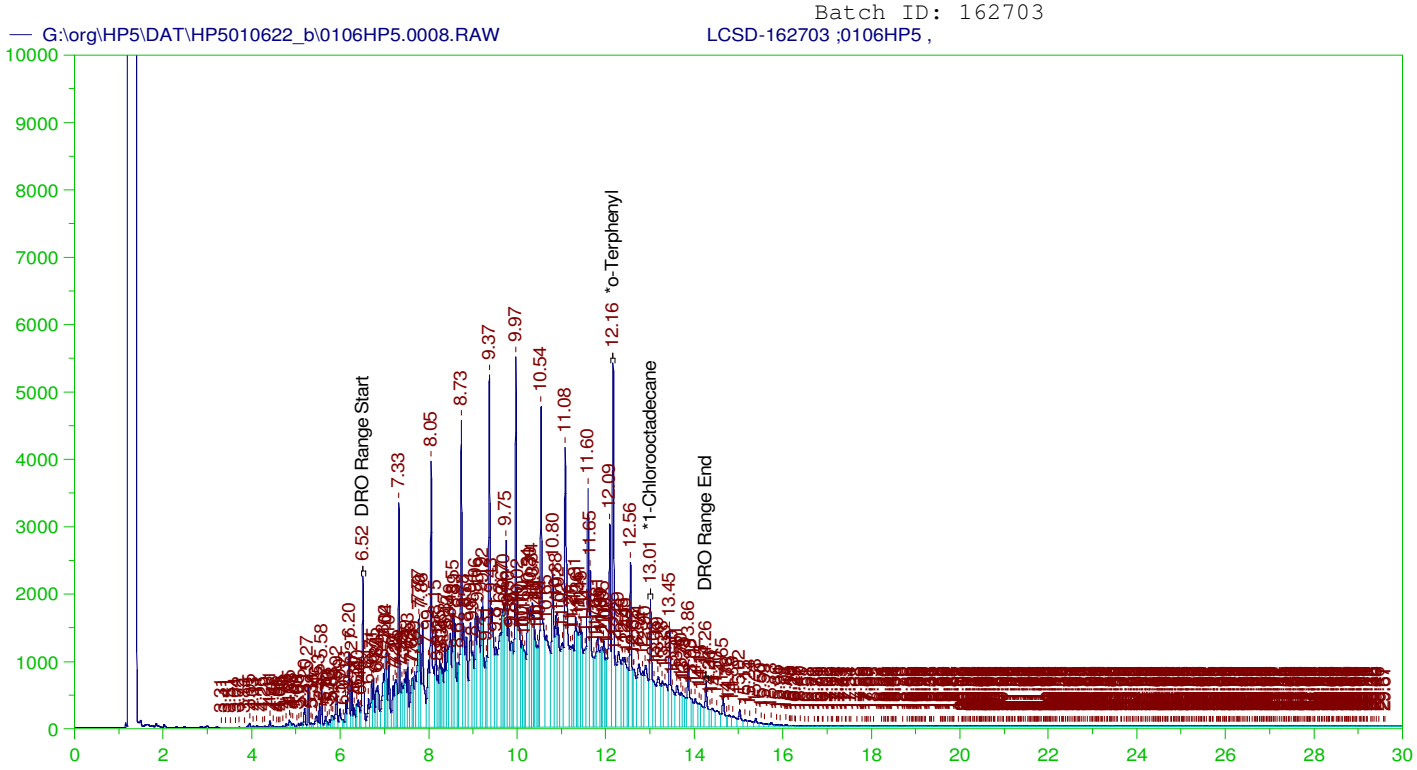
Sample Name: LCS-162703 ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0007.RAW
Date & Time Acquired: 1/6/2022 12:06:33 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.165	.2	.238	118.99	-
*1-Chlorooctadecane	13.01	.2	.068	34.1	-

DRO Area:2.669178E+08 DRO Amount: 8.513258
TEH Area:2.856601E+08 TEH Amount: 9.111038

Batch ID: 162703



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

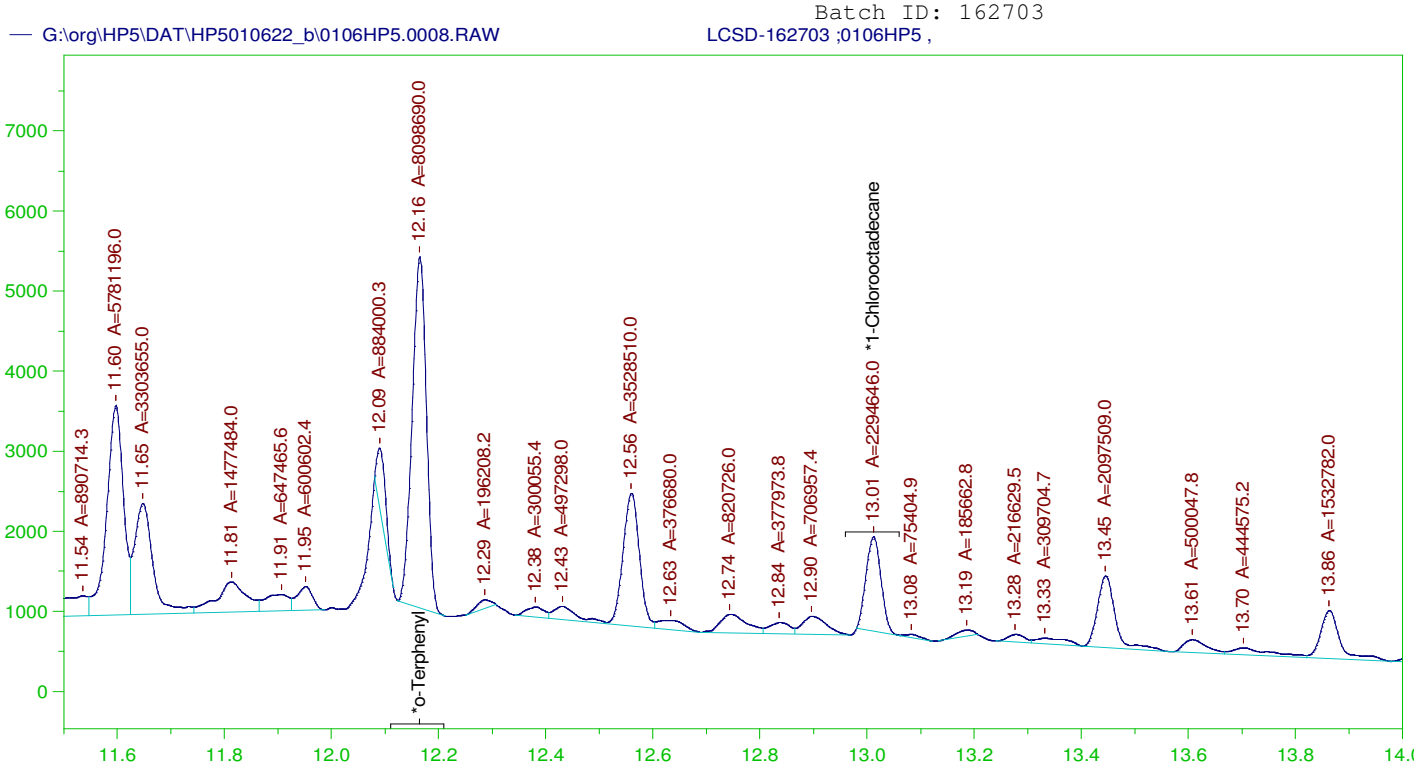
Sample Name: LCSD-162703 ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0008.RAW
Date & Time Acquired: 1/6/2022 12:49:37 PM
Method File: G:\Org\HP5\Methods\D3_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.165	.2	.386	192.89	-
*1-Chlorooctadecane	13.012	.2	.178	88.95	-

DRO Area:5.064639E+08 DRO Amount: 16.1535
TEH Area:5.417034E+08 TEH Amount: 17.27746

Batch ID: 162703



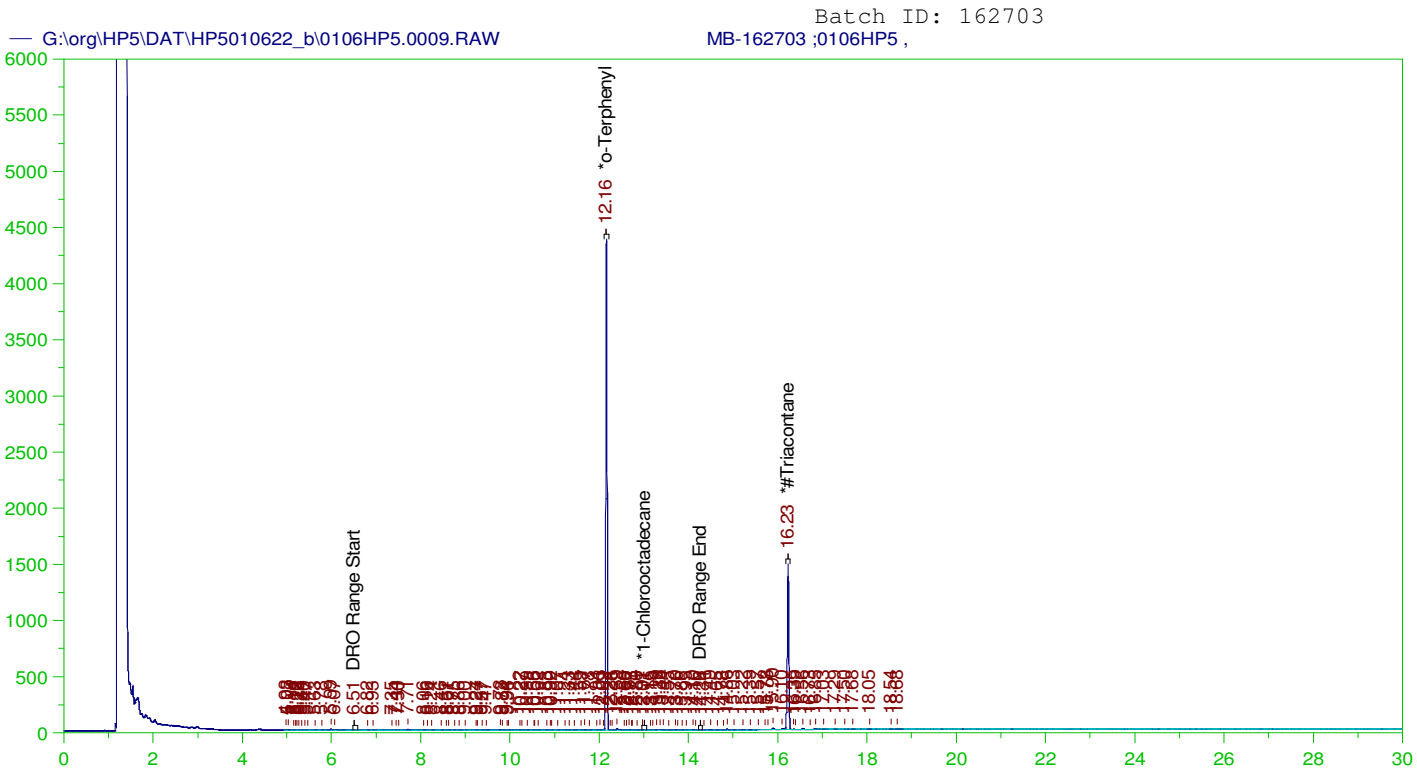
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCSD-162703 ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0008.RAW
Date & Time Acquired: 1/6/2022 12:49:37 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.165	.2	.228	114.04	-
*1-Chlorooctadecane	13.012	.2	.065	32.31	-

DRO Area:2.476856E+08 DRO Amount: 7.899854
TEH Area:2.653828E+08 TEH Amount: 8.464298

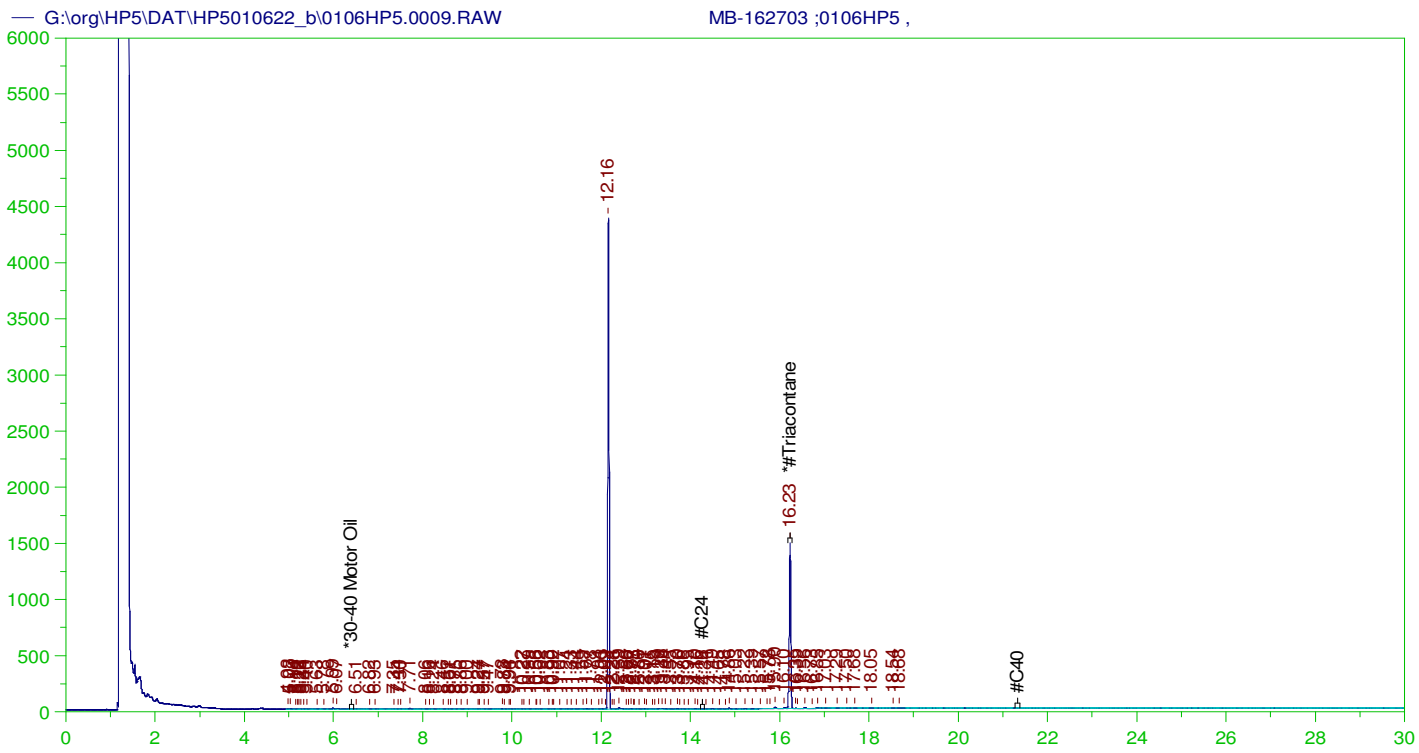


DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: MB-162703 ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0009.RAW
Date & Time Acquired: 1/6/2022 1:32:50 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.2	.229	114.44	-
*1-Chlorooctadecane	13.007	.2	.04		-
*#Triacontane	16.228	.2	.13	64.76	-

DRO Area:332434.3 DRO Amount: 1.060288E-02
TEH Area:672234.9 TEH Amount: 2.144072E-02



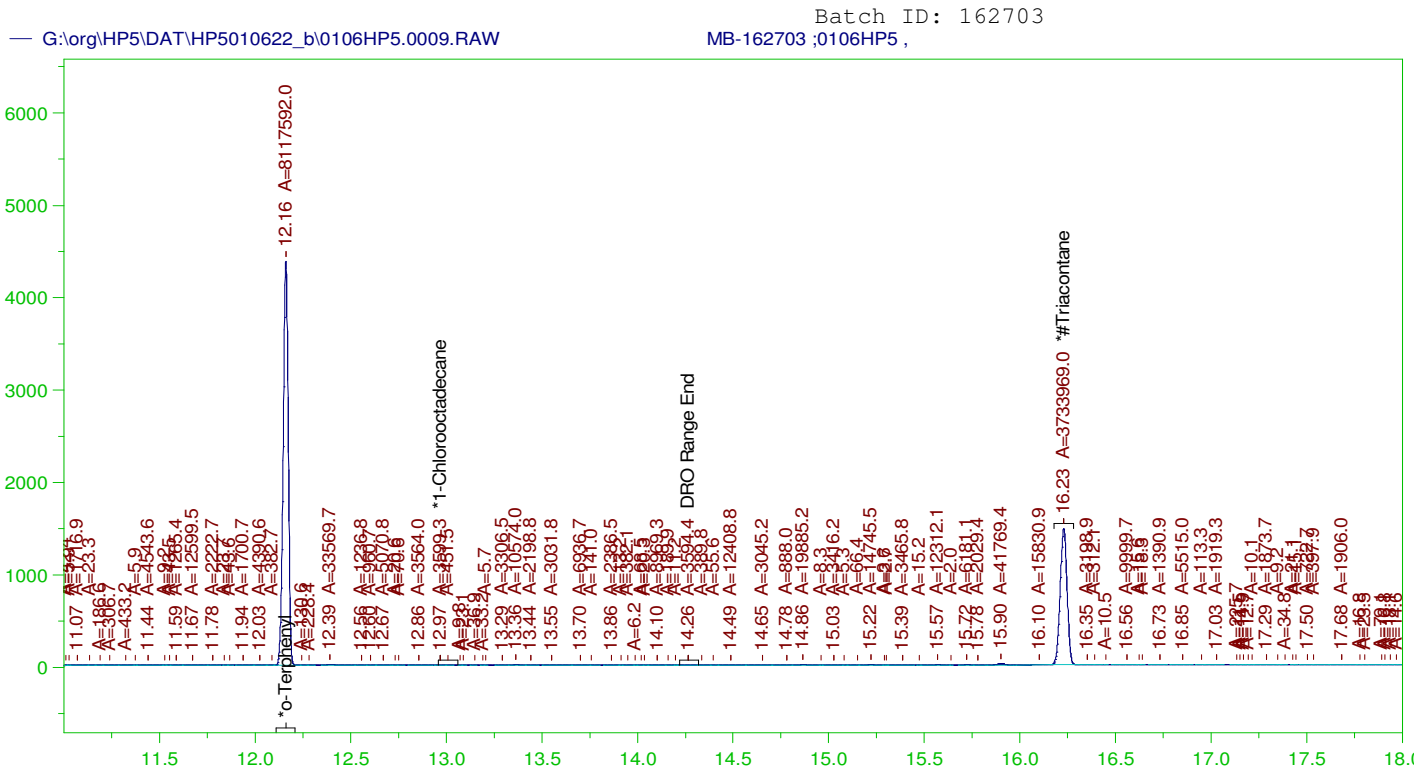
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: MB-162703 ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0009.RAW
Date & Time Acquired: 1/6/2022 1:32:50 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-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: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.228	.5	.13	25.9	-

RRO Area:204385.9 RRO AMOUNT: 7.160778E-03



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-162703 ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0009.RAW
Date & Time Acquired: 1/6/2022 1:32:50 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

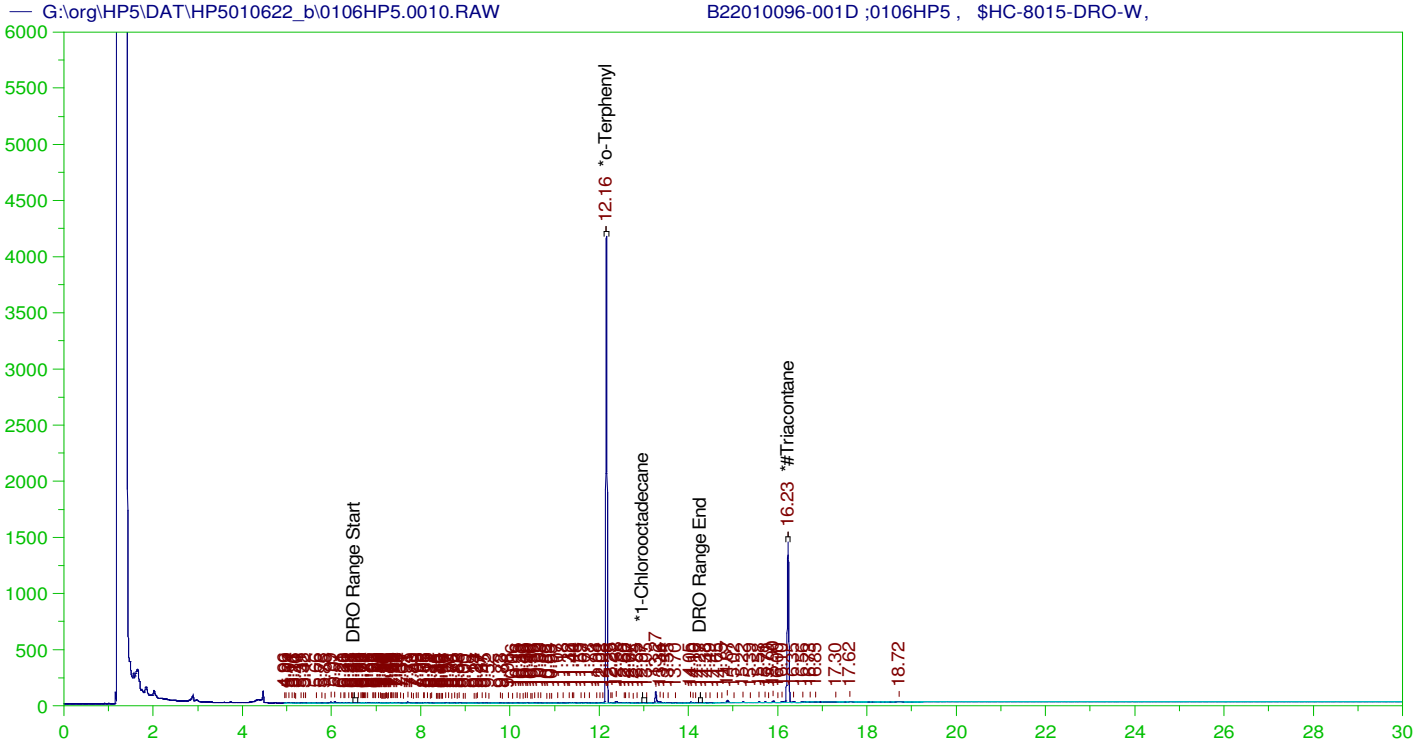
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.2	.229	114.3	-
*1-Chlorooctadecane	12.971	.2	.	.05	-
*#Triacontane	16.228	.2	.129	64.53	-

DRO Area:222866.8 DRO Amount: 7.108264E-03
TEH Area:656391.4 TEH Amount: 2.093539E-02

ERH2297 (RHMW15 zone5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0010.RAW B22010096-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010096-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0010.RAW
Date & Time Acquired: 1/6/2022 2:16:04 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

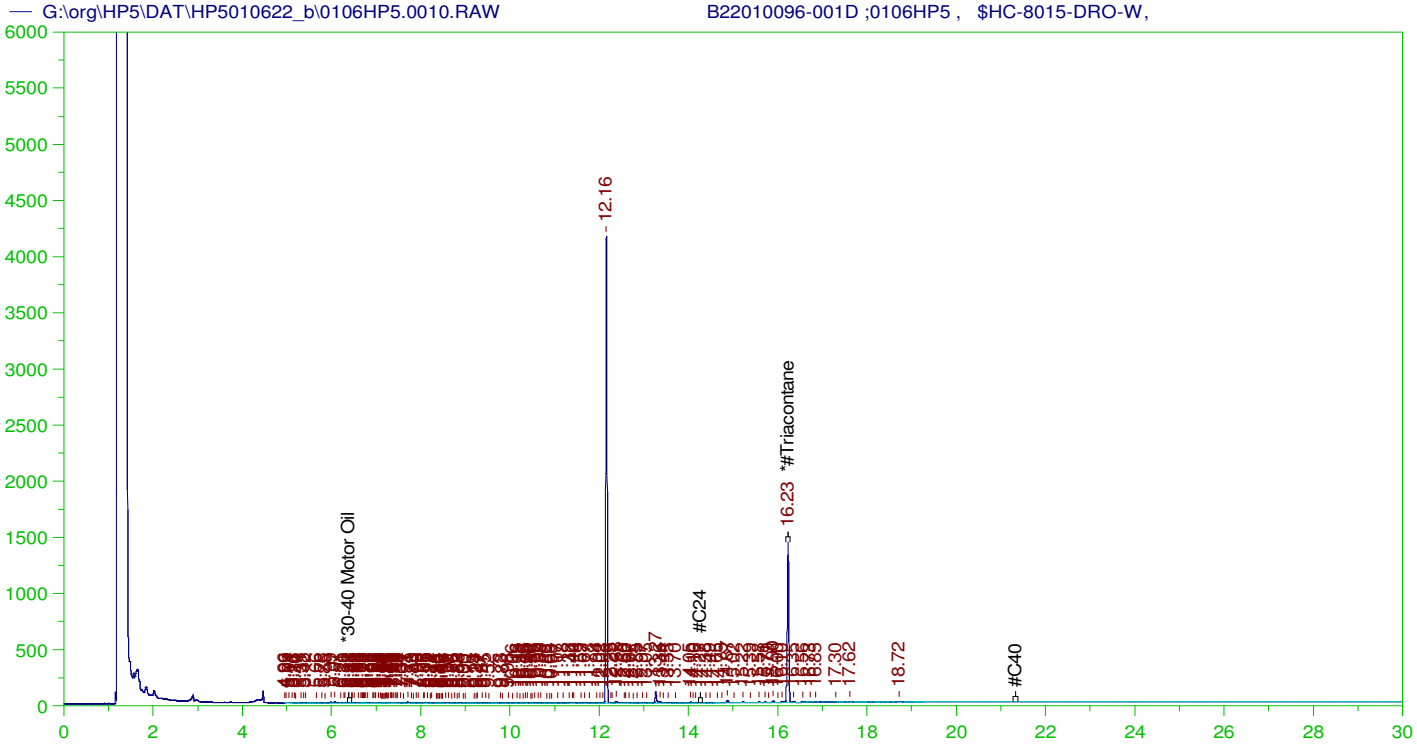
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.16	.198	.215	108.38	-
*1-Chlorooctadecane	12.969	.198	. .16		-
*#Triacontane	16.228	.198	.123	62.03	-

DRO Area:714725.7 DRO Amount: 2.257024E-02
TEH Area:1093069 TEH Amount: 3.451791E-02

ERH2297 (RHMW15 zone5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0010.RAW B22010096-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010096-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0010.RAW
Date & Time Acquired: 1/6/2022 2:16:04 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

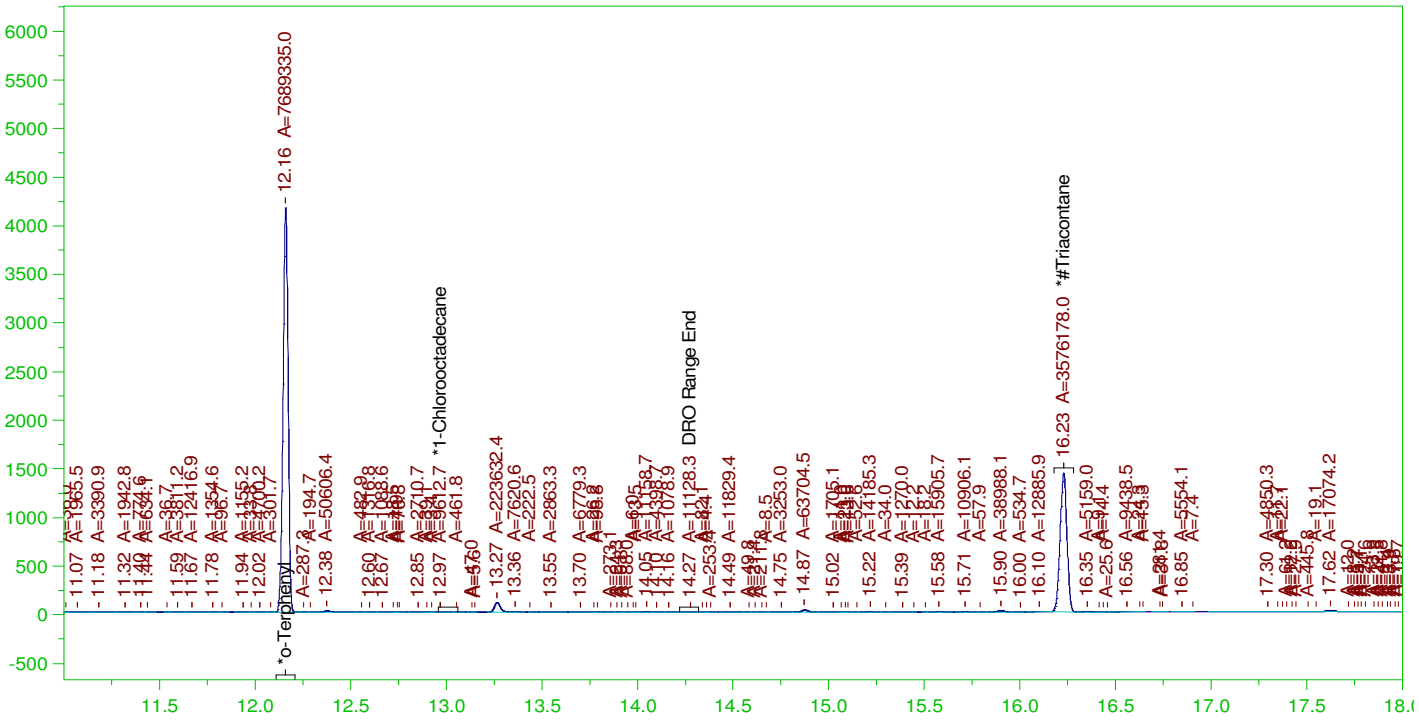
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.228	.495	.123	24.81	-

RRO Area:264894.6 RRO AMOUNT: 9.188848E-03

ERH2297 (RHMW15 zone5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0010.RAW B22010096-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010096-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0010.RAW
Date & Time Acquired: 1/6/2022 2:16:04 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

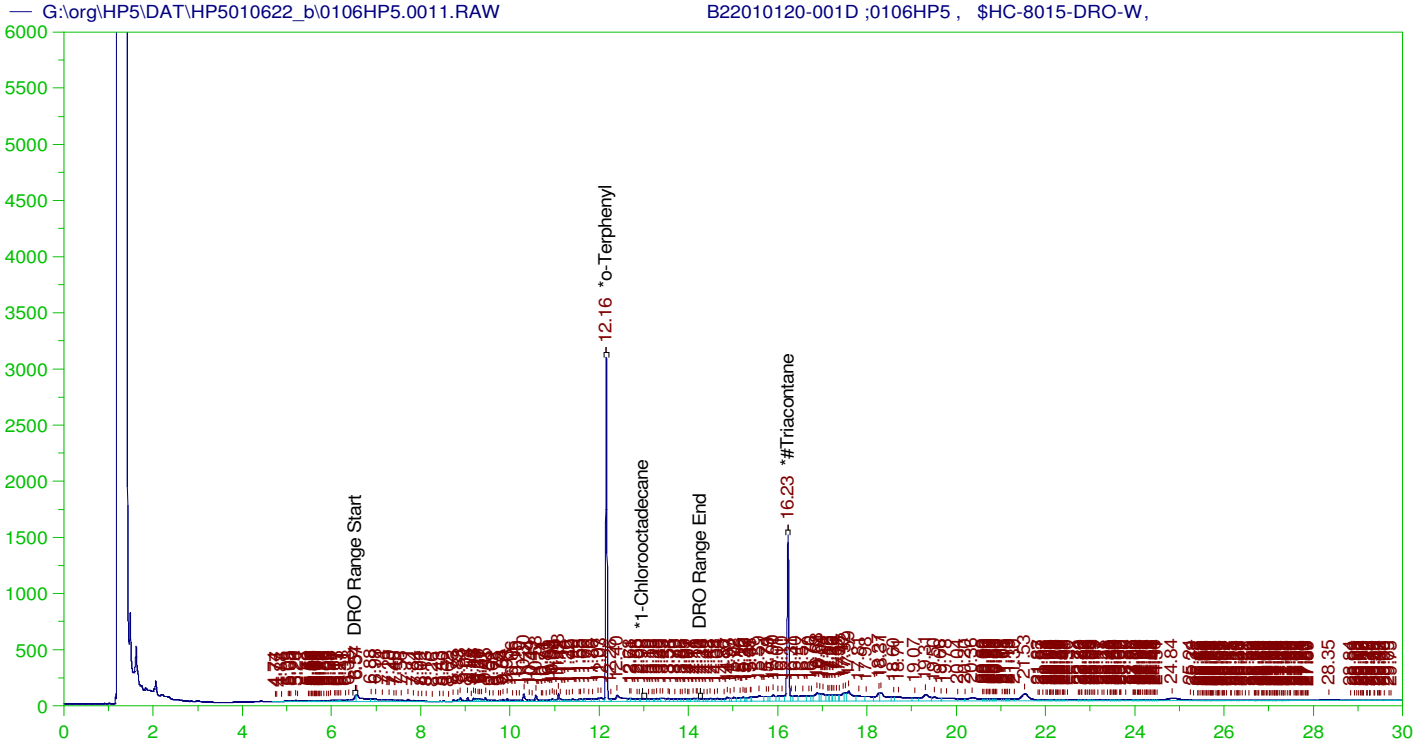
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.16	.198	.214	108.27	-
*1-Chlorooctadecane	12.969	.198	. .14		-
*#Triacontane	16.228	.198	.122	61.81	-

DRO Area:611576.9 DRO Amount: 1.931292E-02
TEH Area:1655909 TEH Amount: 5.229177E-02

ERH2315 (RHMW08) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0011.RAW B22010120-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010120-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0011.RAW
Date & Time Acquired: 1/6/2022 2:59:14 PM
Method File: G:\Org\HP5\Methods\DR_8015-010611-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

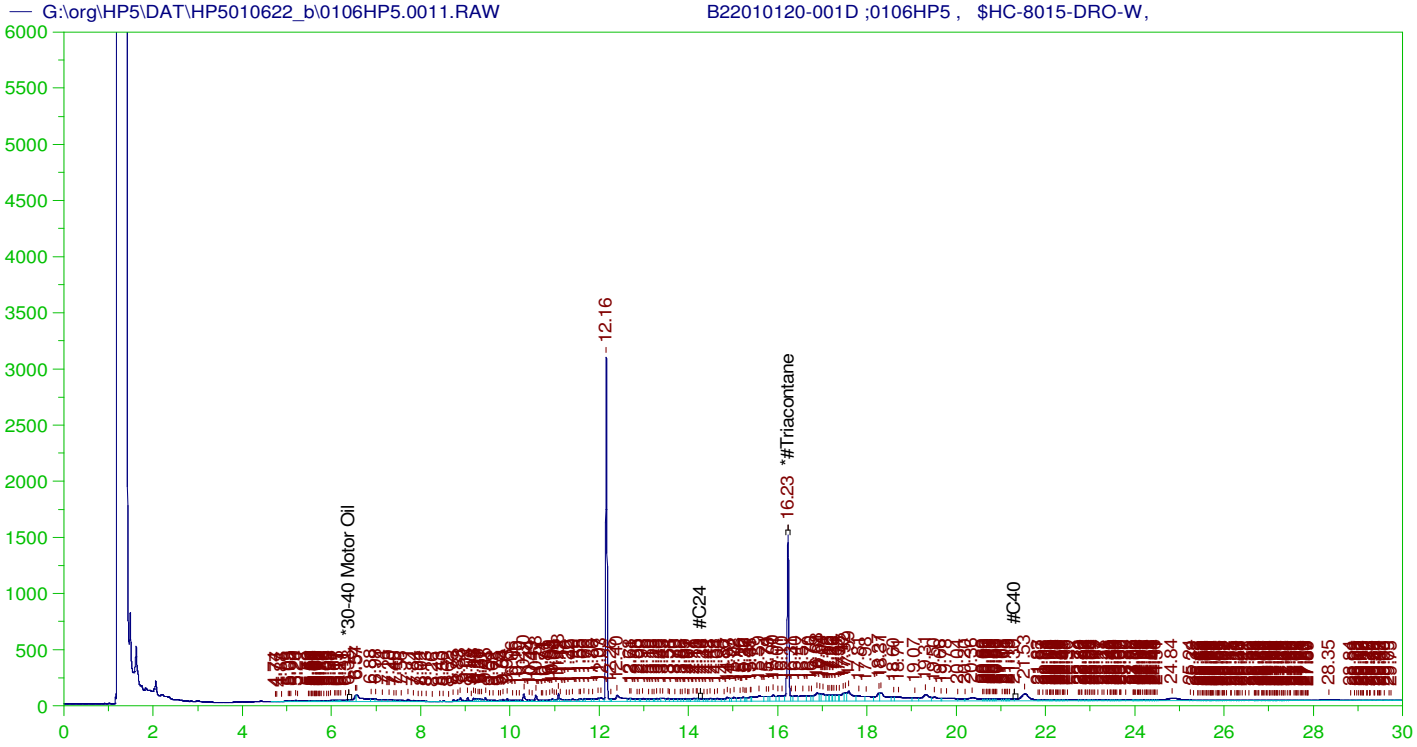
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.159	.2	.164	81.78	-
*1-Chlorooctadecane	12.977	.2	.005	2.52	-
*#Triacontane	16.226	.2	.137	68.55	-

DRO Area:7993996 DRO Amount: 0.2549659
TEH Area:2.703859E+07 TEH Amount: 0.8623871

ERH2315 (RHMW08) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0011.RAW B22010120-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010120-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0011.RAW
Date & Time Acquired: 1/6/2022 2:59:14 PM
Method File: G:\Org\HP5\Methods\DR_OROS-010611-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

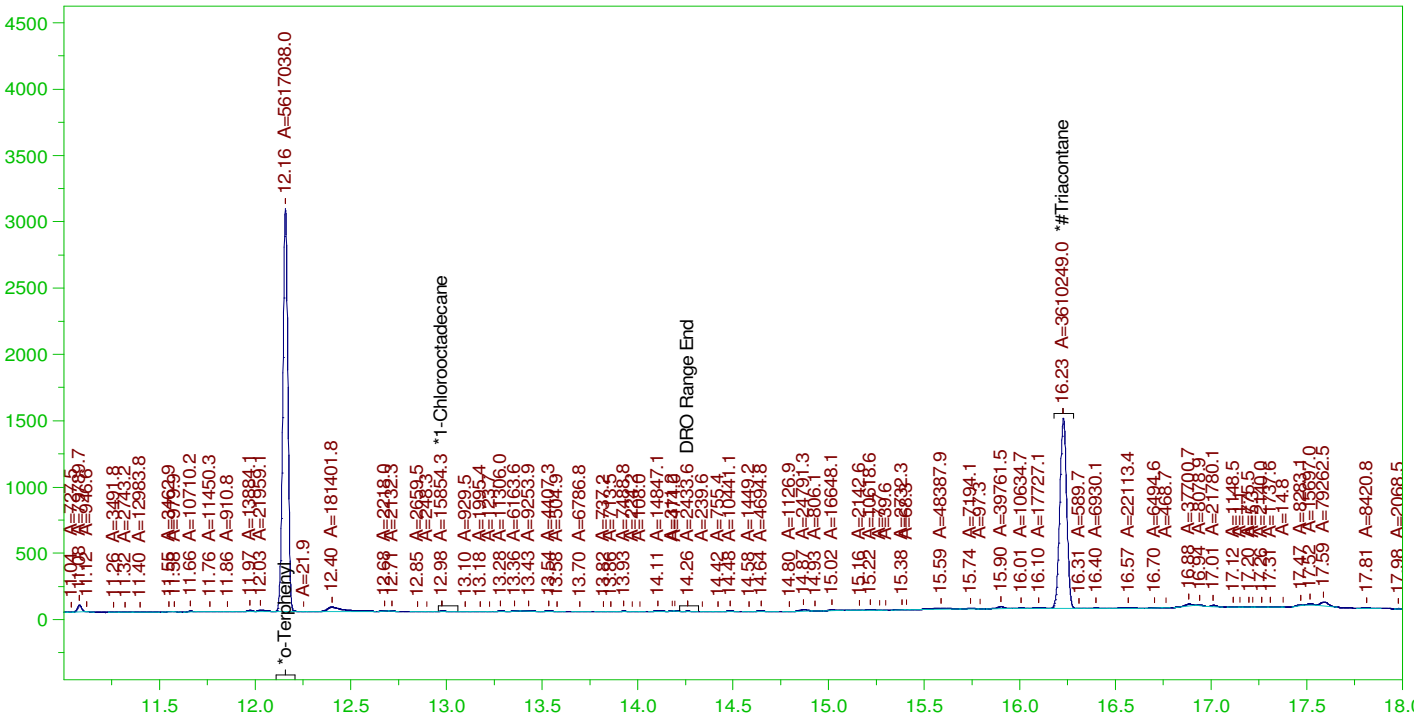
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.226	.5	.137	27.42	-

RRO Area:1.448902E+07 RRO AMOUNT: 0.5076314

ERH2315 (RHMW08) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0011.RAW B22010120-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

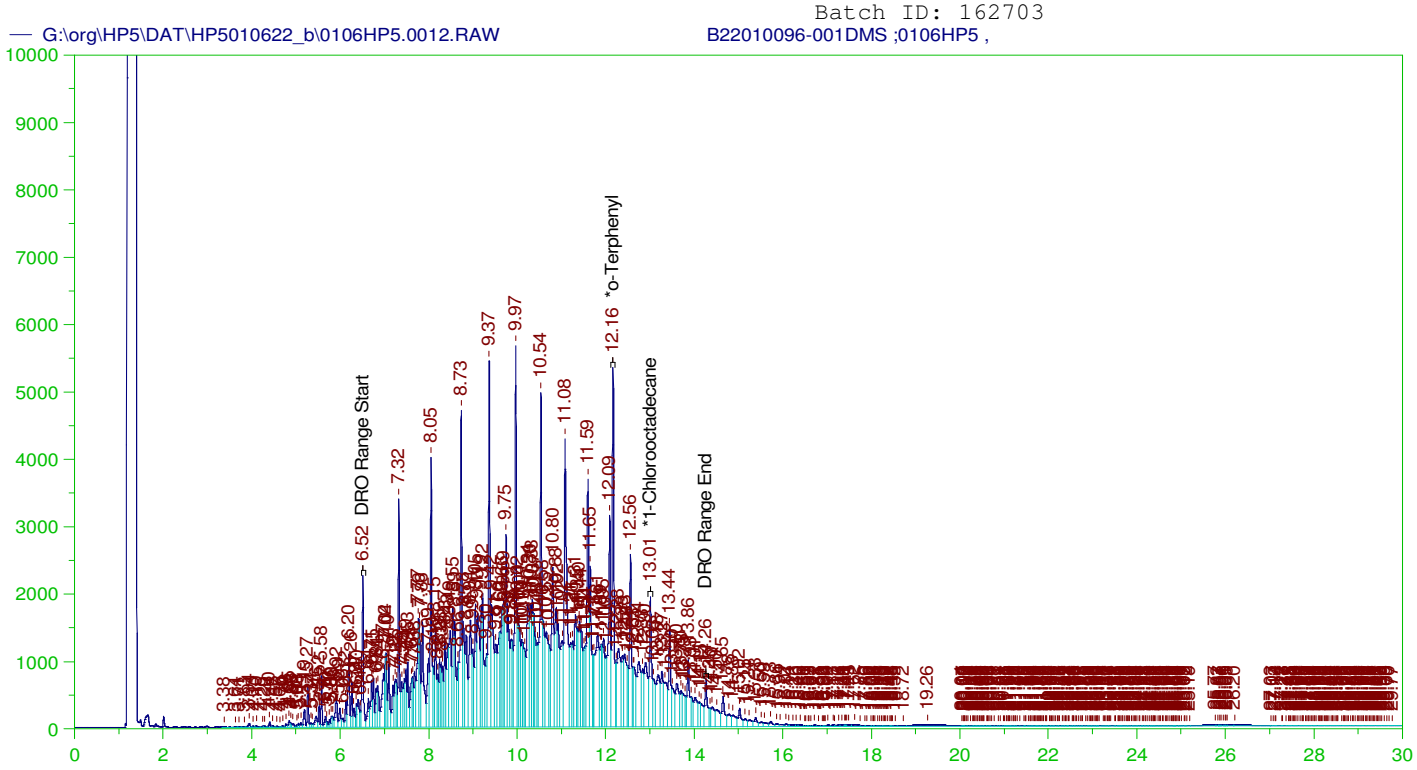
Sample Name: B22010120-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0011.RAW
Date & Time Acquired: 1/6/2022 2:59:14 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.159	.2	.158	79.09	-
*1-Chlorooctadecane	12.977	.2	.	.22	-
*#Triacontane	16.226	.2	.125	62.4	-

DRO Area:3672727 DRO Amount: 0.1171404
TEH Area:6999897 TEH Amount: 0.2232595

Batch ID: 162703



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

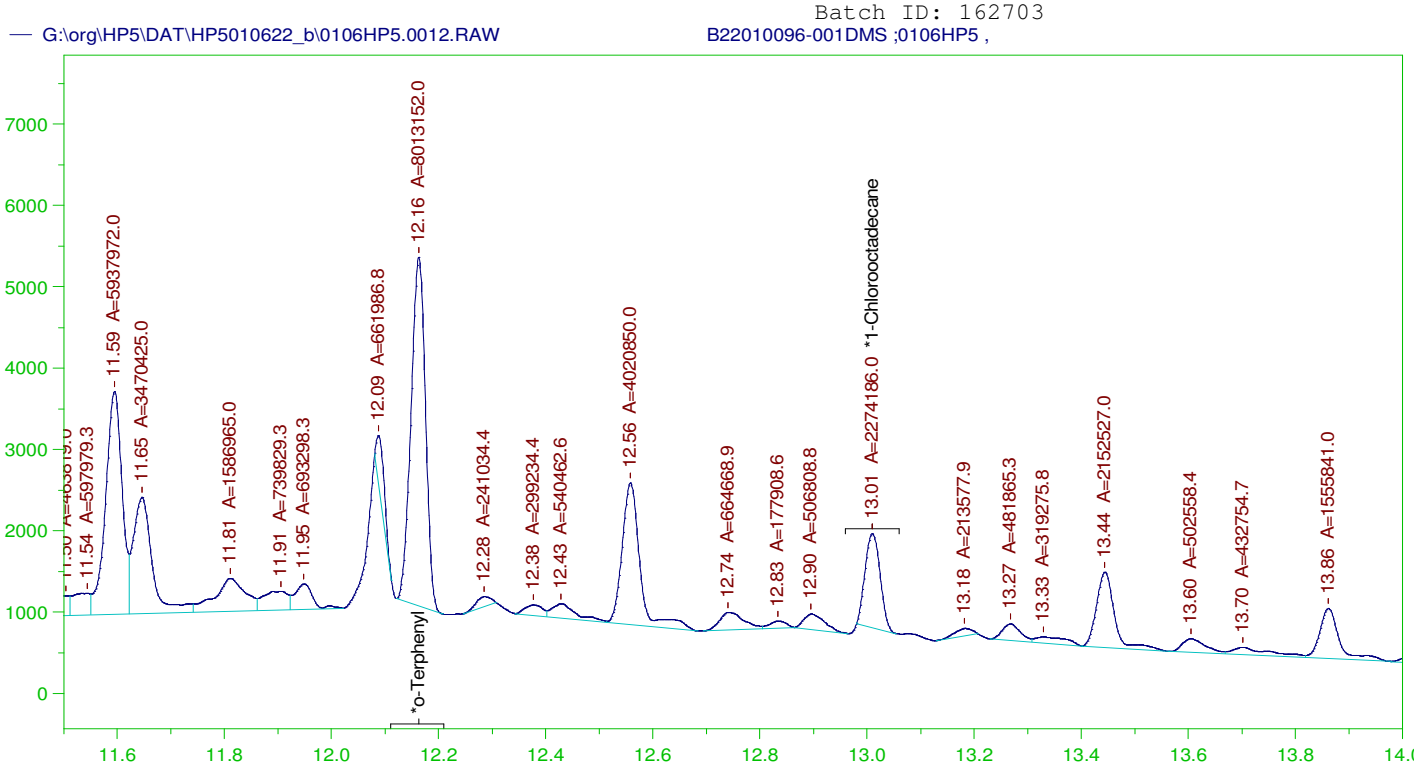
Sample Name: B22010096-001DMS ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0012.RAW
Date & Time Acquired: 1/6/2022 3:42:14 PM
Method File: G:\Org\HP5\Methods\D3_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.163	.194	.389	200.34	-
*1-Chlorooctadecane	13.01	.194	.186	95.81	-

DRO Area:5.180513E+08 DRO Amount: 16.04183
TEH Area:5.576945E+08 TEH Amount: 17.26941

Batch ID: 162703



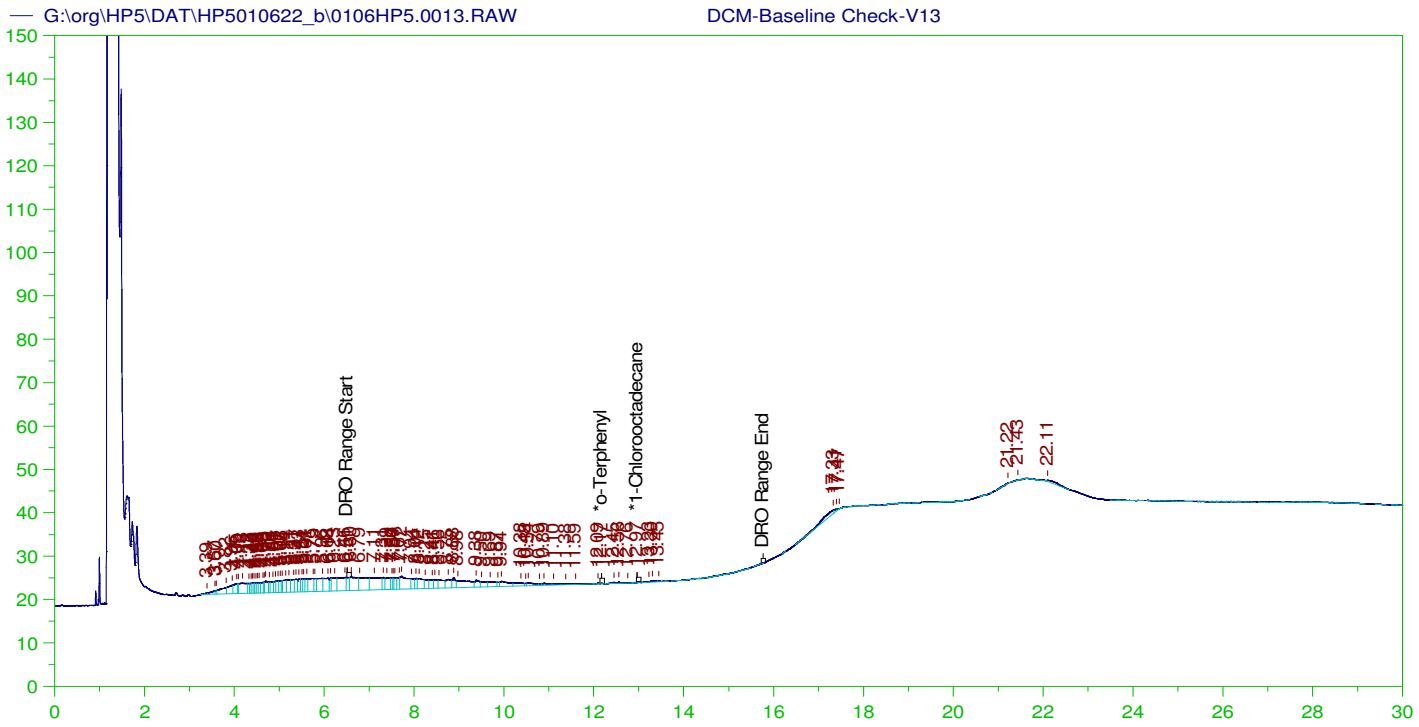
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010096-001DMS ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0012.RAW
Date & Time Acquired: 1/6/2022 3:42:14 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.163	.194	.219	112.83	-
*1-Chlorooctadecane	13.01	.194	.062	32.02	-

DRO Area:2.535072E+08 DRO Amount: 7.85003
TEH Area:2.706487E+08 TEH Amount: 8.38083



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V13
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0013.RAW
Date & Time Acquired: 1/6/2022 4:25:39 PM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

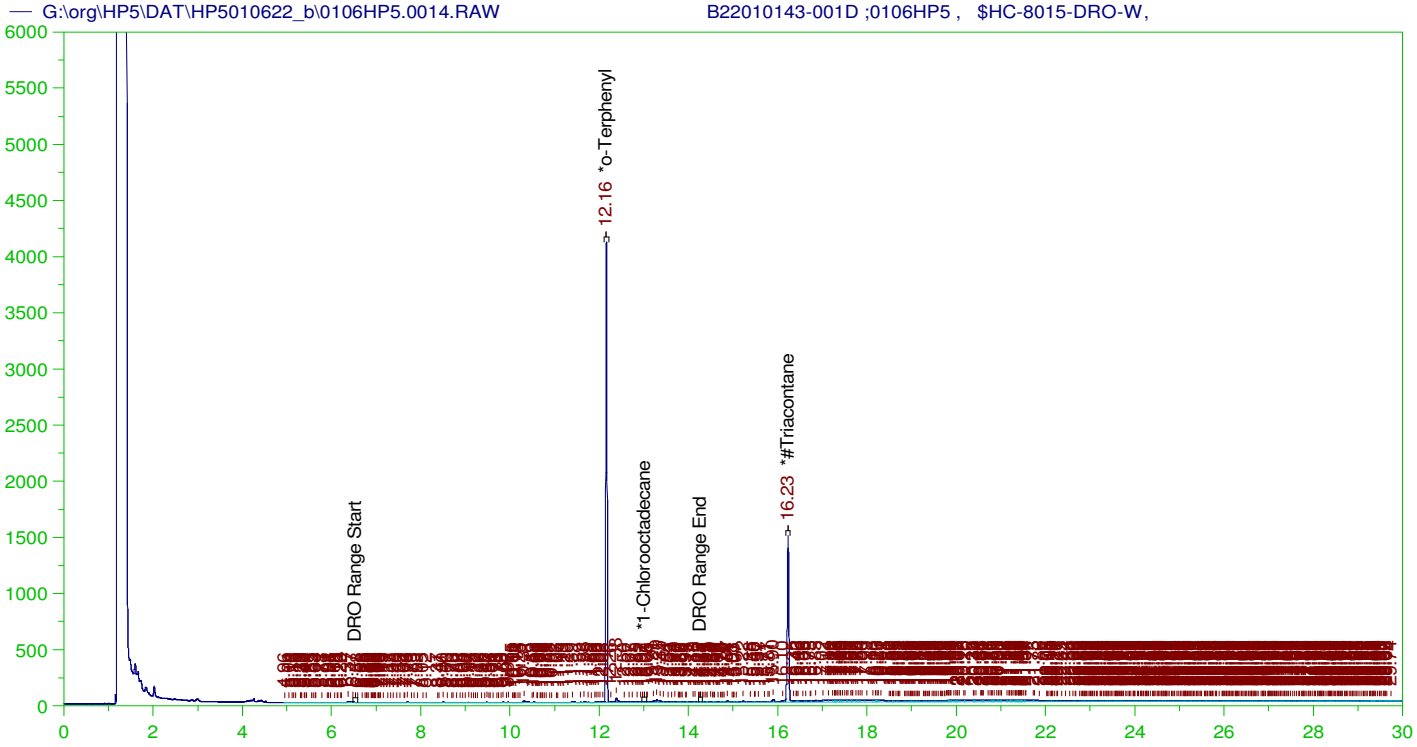
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.166	200.	.017	.01	-
*1-Chlorooctadecane	12.966	200.	.023	.01	-

DRO Area:505317.8 DRO Amount: 16.11695
TEH Area:1003452 TEH Amount: 32.0048

ERH2299 (OWDFMW04A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0014.RAW B22010143-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010143-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0014.RAW
Date & Time Acquired: 1/6/2022 5:10:38 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

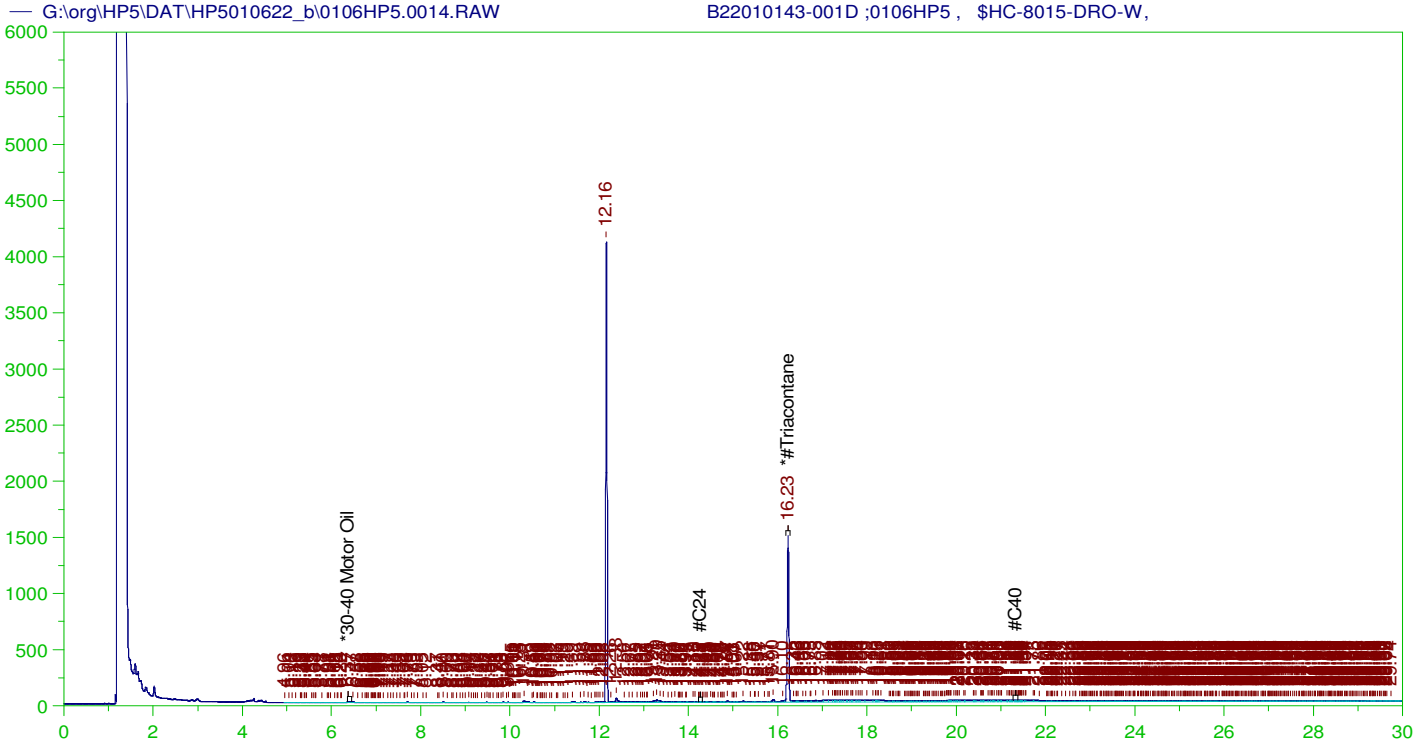
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.16	.19	.203	106.42	-
*1-Chlorooctadecane	13.007	.19	.	.13	-
*#Triacontane	16.228	.19	.126	66.31	-

DRO Area:1134597 DRO Amount: 3.446438E-02
TEH Area:8449801 TEH Amount: 0.2566702

ERH2299 (OWDFMW04A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0014.RAW B22010143-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010143-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0014.RAW
Date & Time Acquired: 1/6/2022 5:10:38 PM
Method File: G:\Org\HP5\Methods\D3_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

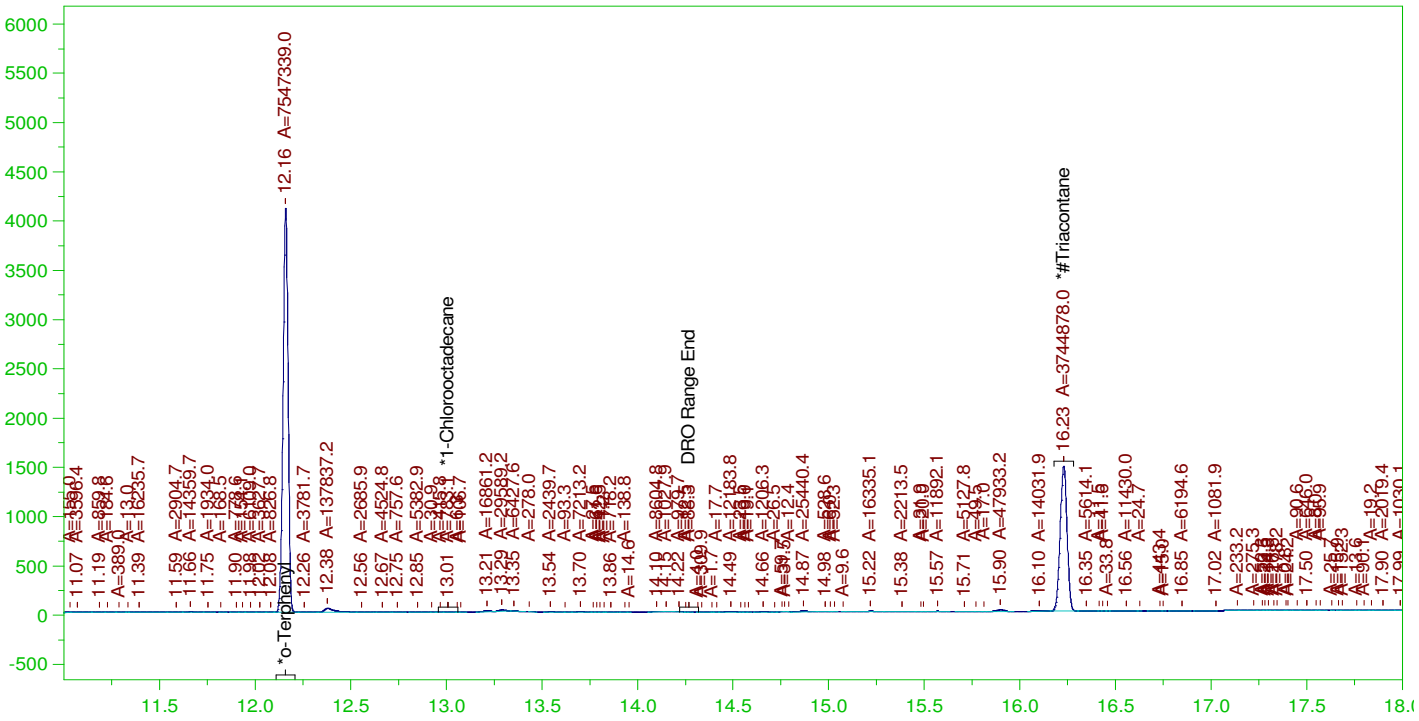
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.228	.476	.126	26.52	-

RRO Area:4821862 RRO AMOUNT: 0.1608921

ERH2299 (OWDFMW04A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0014.RAW B22010143-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010143-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0014.RAW
Date & Time Acquired: 1/6/2022 5:10:38 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

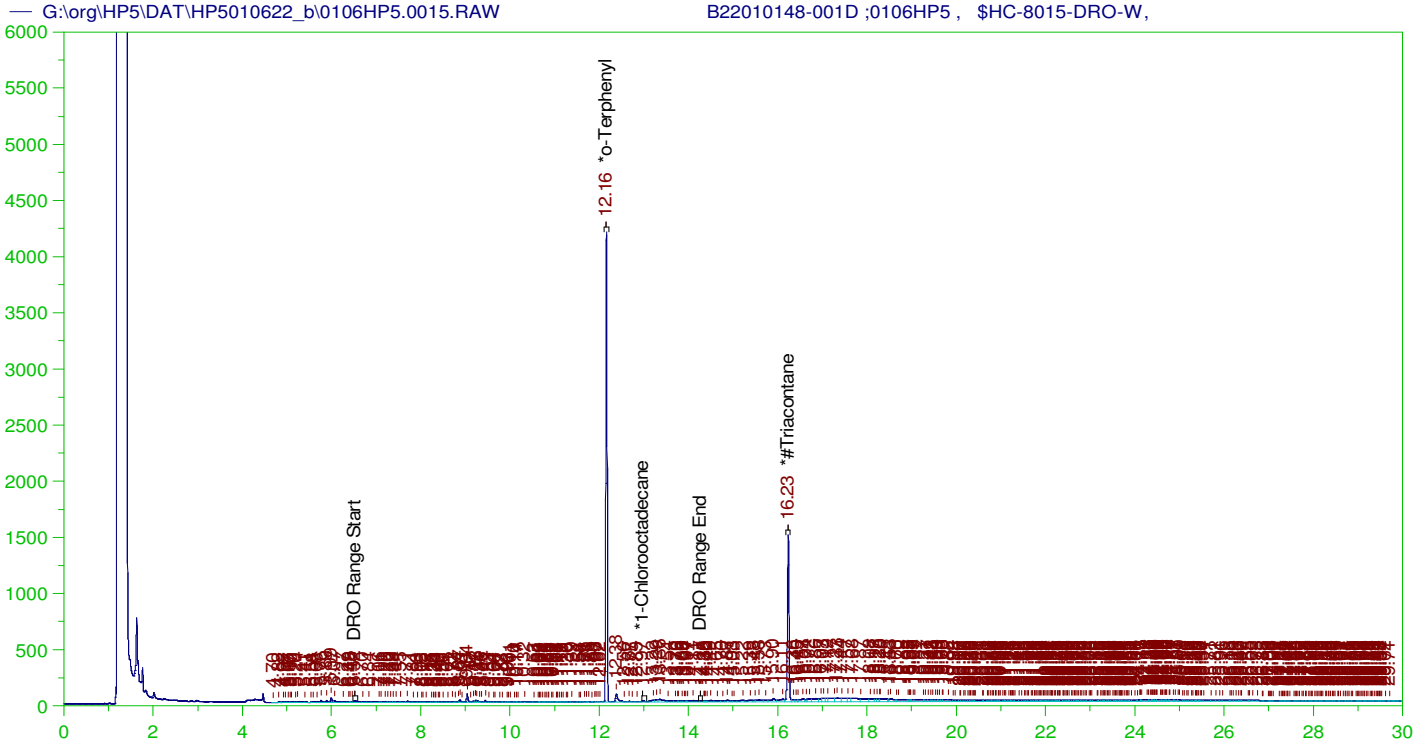
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.16	.19	.202	106.27	-
*1-Chlorooctadecane	13.007	.19	.	.01	-
*#Triacontane	16.228	.19	.123	64.72	-

DRO Area:607905.9 DRO Amount: 1.846568E-02
TEH Area:1491551 TEH Amount: 4.530719E-02

ERH2305 (OWDFMW08A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0015.RAW B22010148-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010148-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0015.RAW
Date & Time Acquired: 1/6/2022 5:53:59 PM
Method File: G:\Org\HP5\Methods\DR_8015-010615-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.162	.192	.212	110.19	-
*1-Chlorooctadecane	12.973	.192	.002	1.07	-
*#Triacontane	16.231	.192	.128	66.8	-

DRO Area:3341707 DRO Amount: 0.1024833
TEH Area:1.577211E+07 TEH Amount: 0.4836984

ERH2305 (OWDFMW08A) Batch ID: 162703

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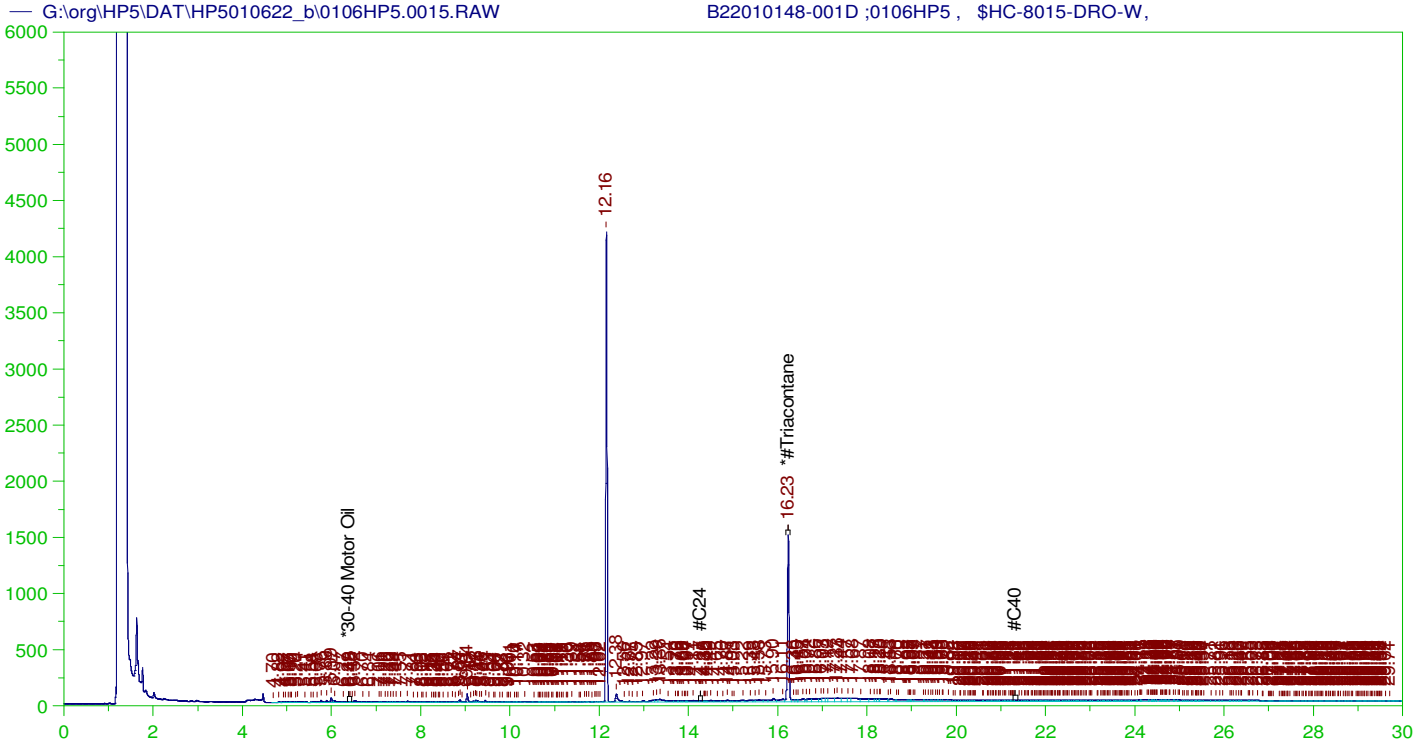

RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010148-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0015.RAW
Date & Time Acquired: 1/6/2022 5:53:59 PM
Method File: G:\Org\HP5\Methods\DR_OROS-010615-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-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: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.231	.481	.128	26.72	-

RRO Area:7903455 RRO AMOUNT: 0.2662521

ERH2305 (OWDFMW08A) Batch ID: 162703

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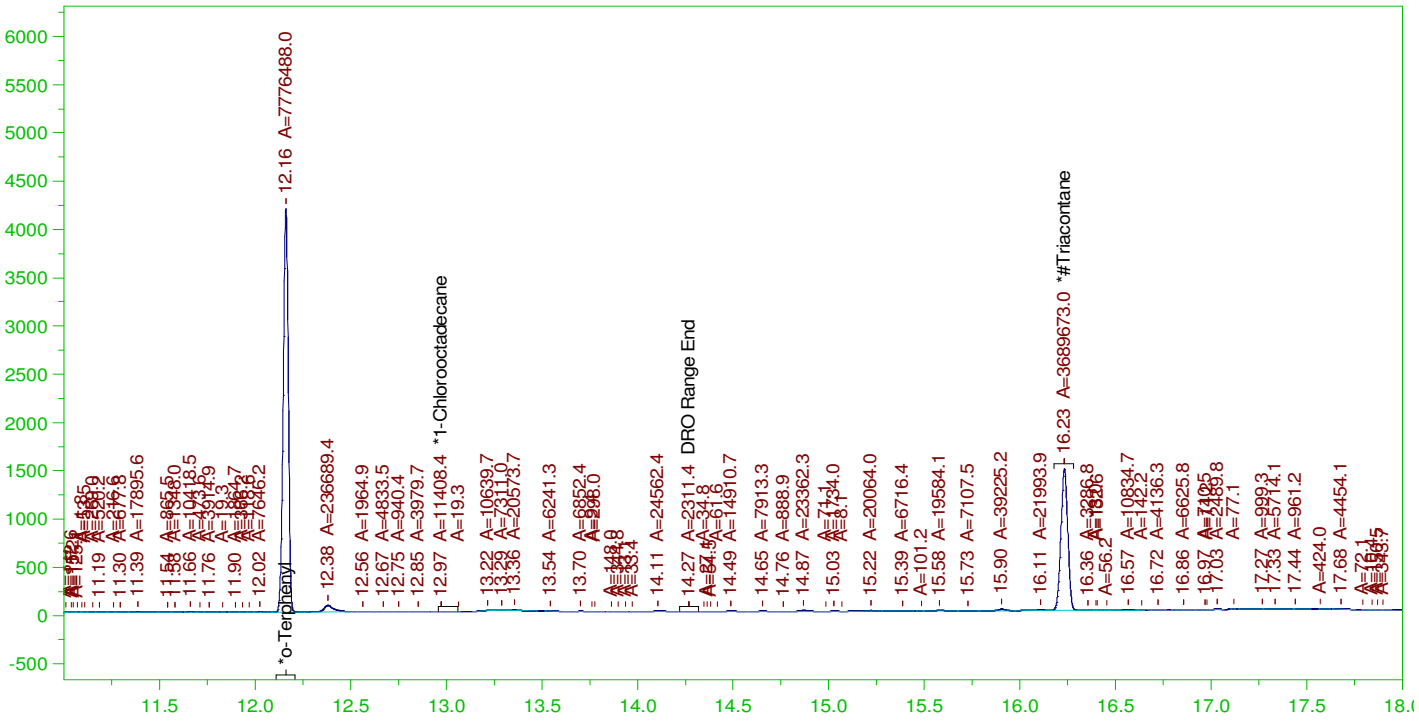

DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010148-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0015.RAW
Date & Time Acquired: 1/6/2022 5:53:59 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.162	.192	.211	109.5	-
*1-Chlorooctadecane	12.973	.192	.16		-
*#Triacontane	16.231	.192	.123	63.77	-

DRO Area:1867877 DRO Amount: 5.728398E-02
TEH Area:3460544 TEH Amount: 0.1061278

ERH2303 (OWDFMW07A) Batch ID: 162703

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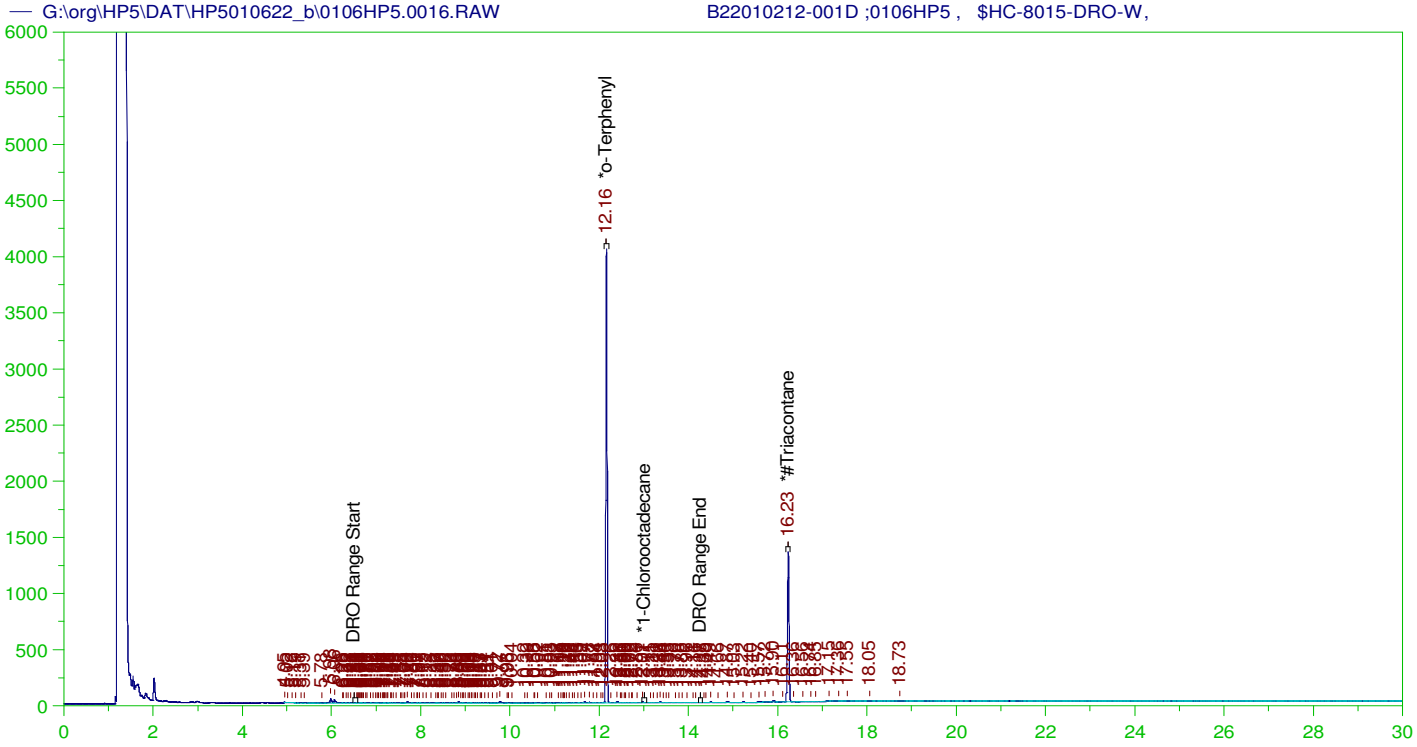


DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010212-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0016.RAW
Date & Time Acquired: 1/6/2022 6:37:18 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

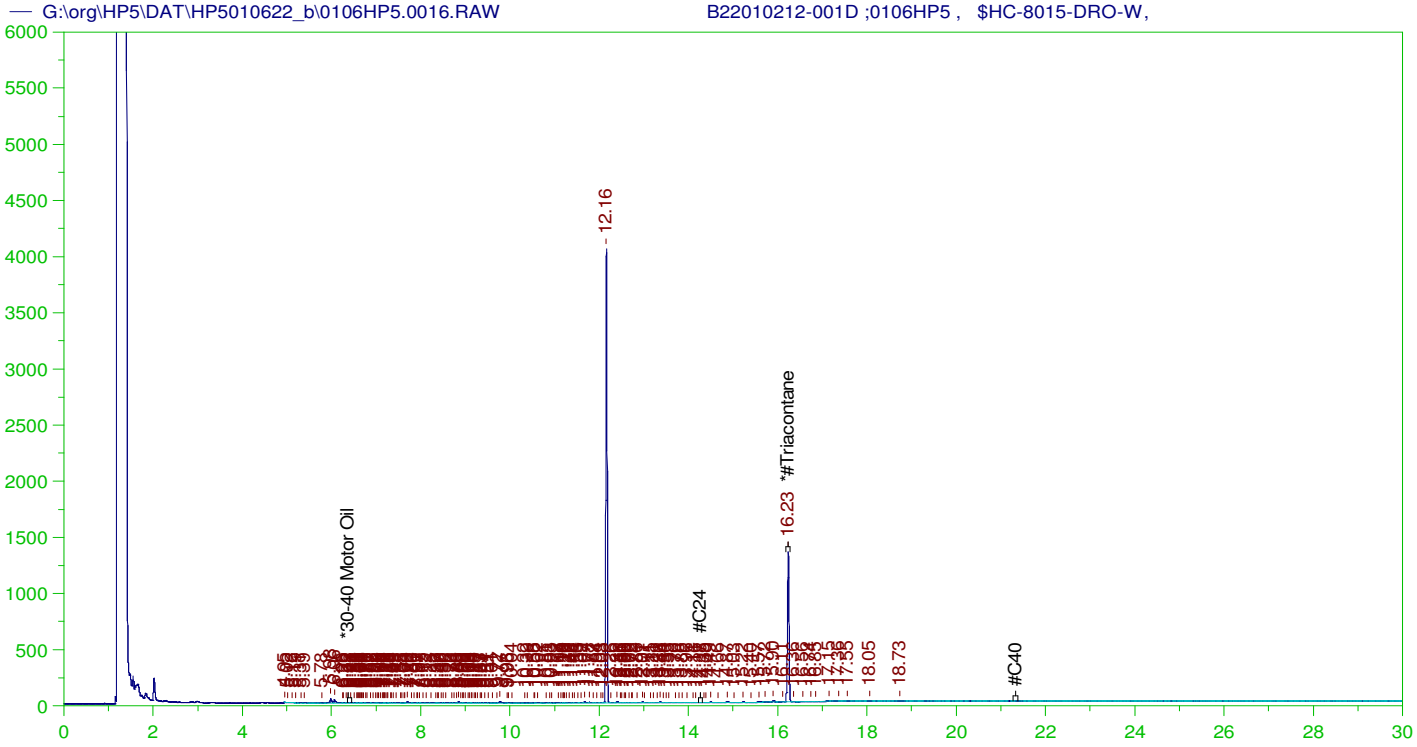
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.19	.201	105.55	-
*1-Chlorooctadecane	13.01	.19	.	.07	-
*#Triacontane	16.231	.19	.112	58.61	-

DRO Area:555979.1 DRO Amount: 1.688836E-02
TEH Area:996550.5 TEH Amount: 0.0302711

ERH2303 (OWDFMW07A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0016.RAW B22010212-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010212-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0016.RAW
Date & Time Acquired: 1/6/2022 6:37:18 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-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: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.231	.476	.112	23.45	-

RRO Area:181490.7 RRO AMOUNT: 6.05584E-03

ERH2303 (OWDFMW07A) Batch ID: 162703

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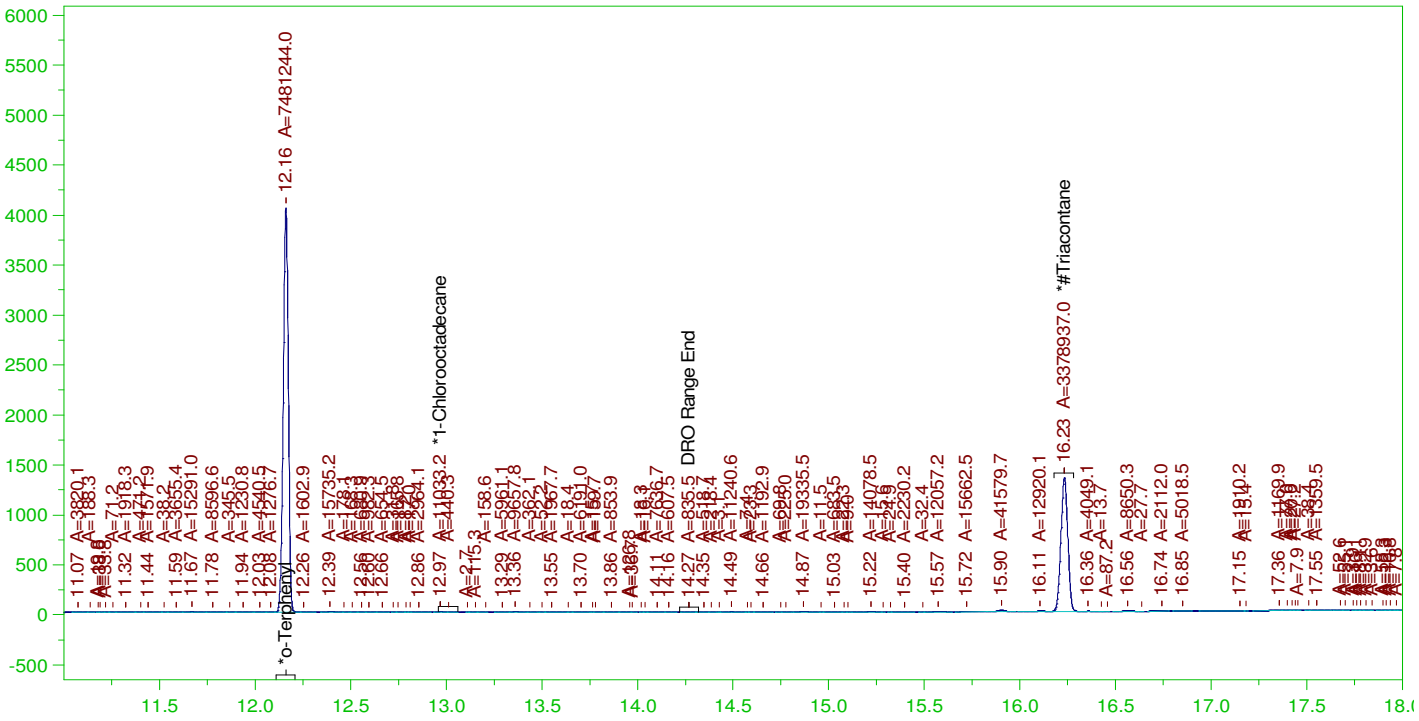


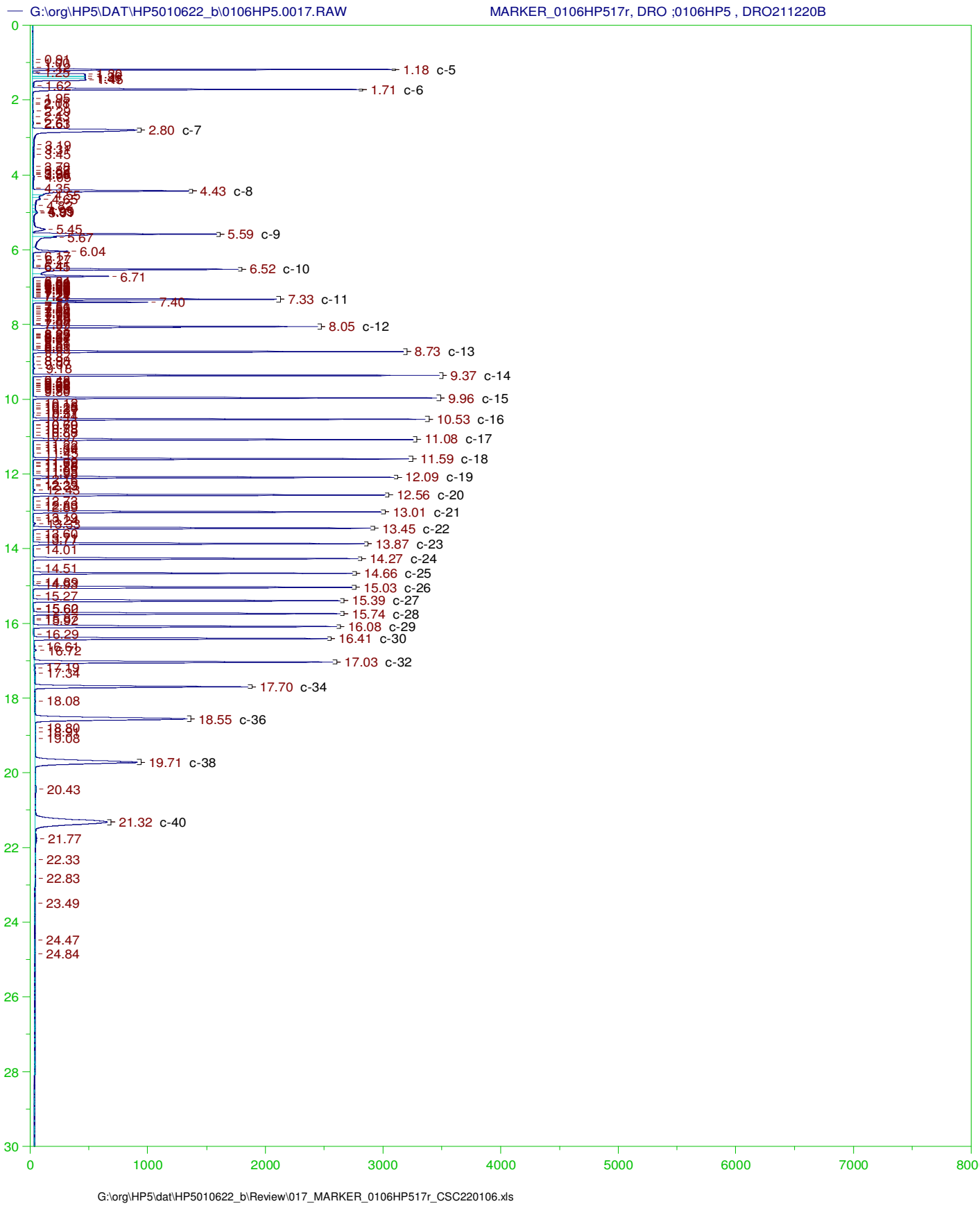
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010212-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0016.RAW
Date & Time Acquired: 1/6/2022 6:37:18 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.19	.201	105.34	-
*1-Chlorooctadecane	12.971	.19	.	.16	-
*#Triacontane	16.231	.19	.111	58.4	-

DRO Area:479471.5 DRO Amount: 1.456437E-02
TEH Area:1132421 TEH Amount: 3.439829E-02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MARKER_0106HP517r, DRO ;0106HP5 , DRO211220B
1.18 c-5
1.71 c-6
2.80 c-7
4.43 c-8
5.59 c-9
6.52 c-10
7.33 c-11
8.05 c-12
8.73 c-13
9.37 c-14
9.96 c-15
10.53 c-16
11.08 c-17
11.59 c-18
12.09 c-19
12.56 c-20
13.01 c-21
13.45 c-22
13.87 c-23
14.27 c-24
14.66 c-25
15.03 c-26
15.39 c-27
15.74 c-28
16.08 c-29
16.41 c-30
17.03 c-32
17.70 c-34
18.55 c-36
19.71 c-38
21.32 c-40
0
1000
2000
3000
4000
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6000
7000
800
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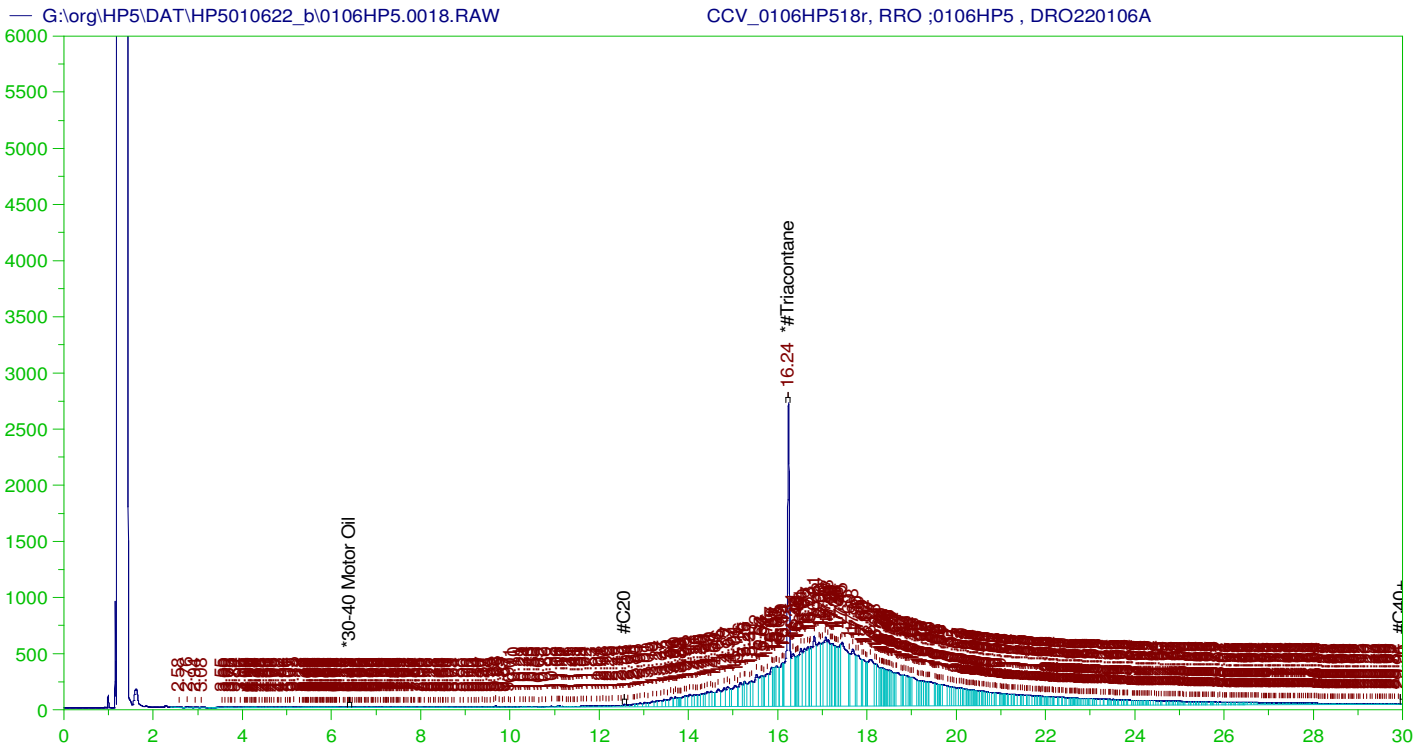


RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP518r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0018.RAW
Date & Time Acquired: 1/6/2022 8:03:53 PM
Method File: G:\Org\HP5\Methods\DC_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.238	500.	336.853	67.37	-

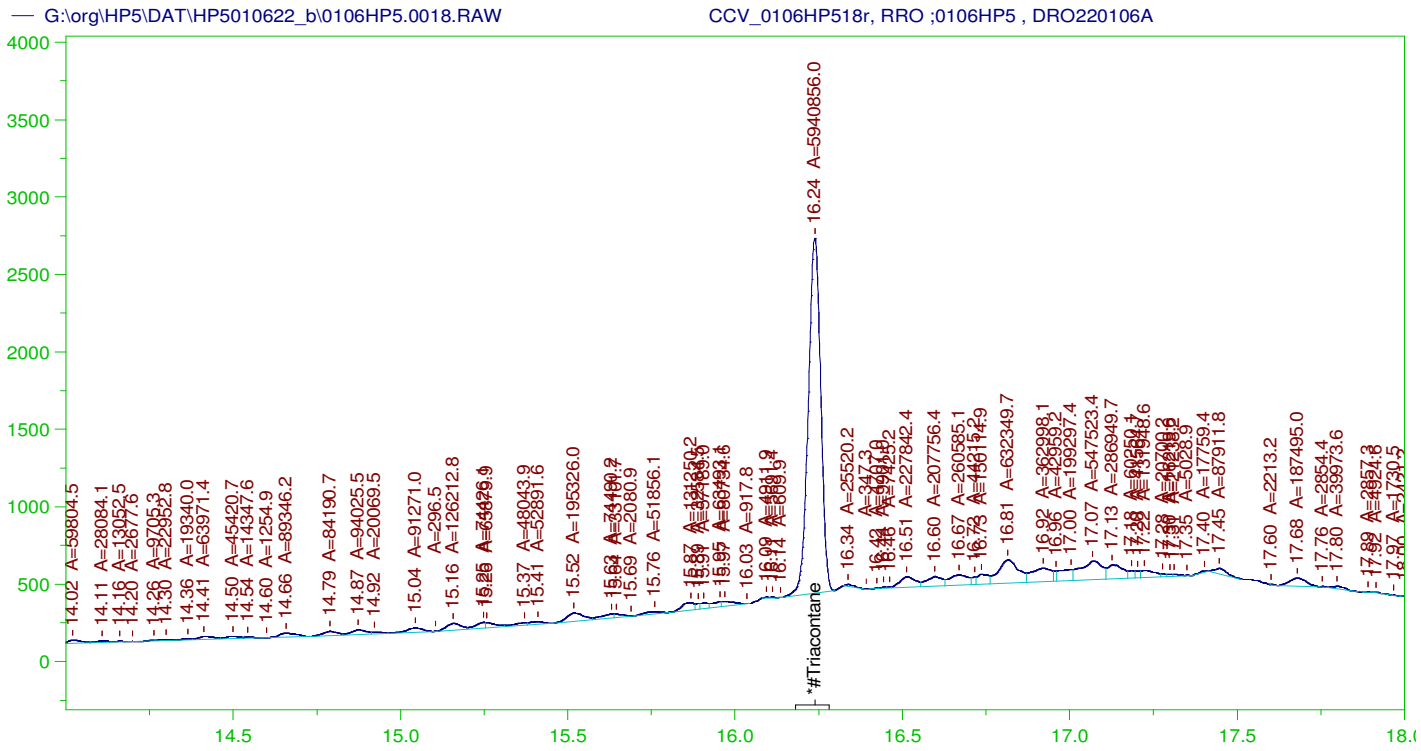
~~RRO~~ TEH (Oil Range) Area:1.388852E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 4865.923

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0018.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.05	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.238	200.	336.853	168.43	75-125

AMN 01/31/2022



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP518r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0018.RAW
Date & Time Acquired: 1/6/2022 8:03:53 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

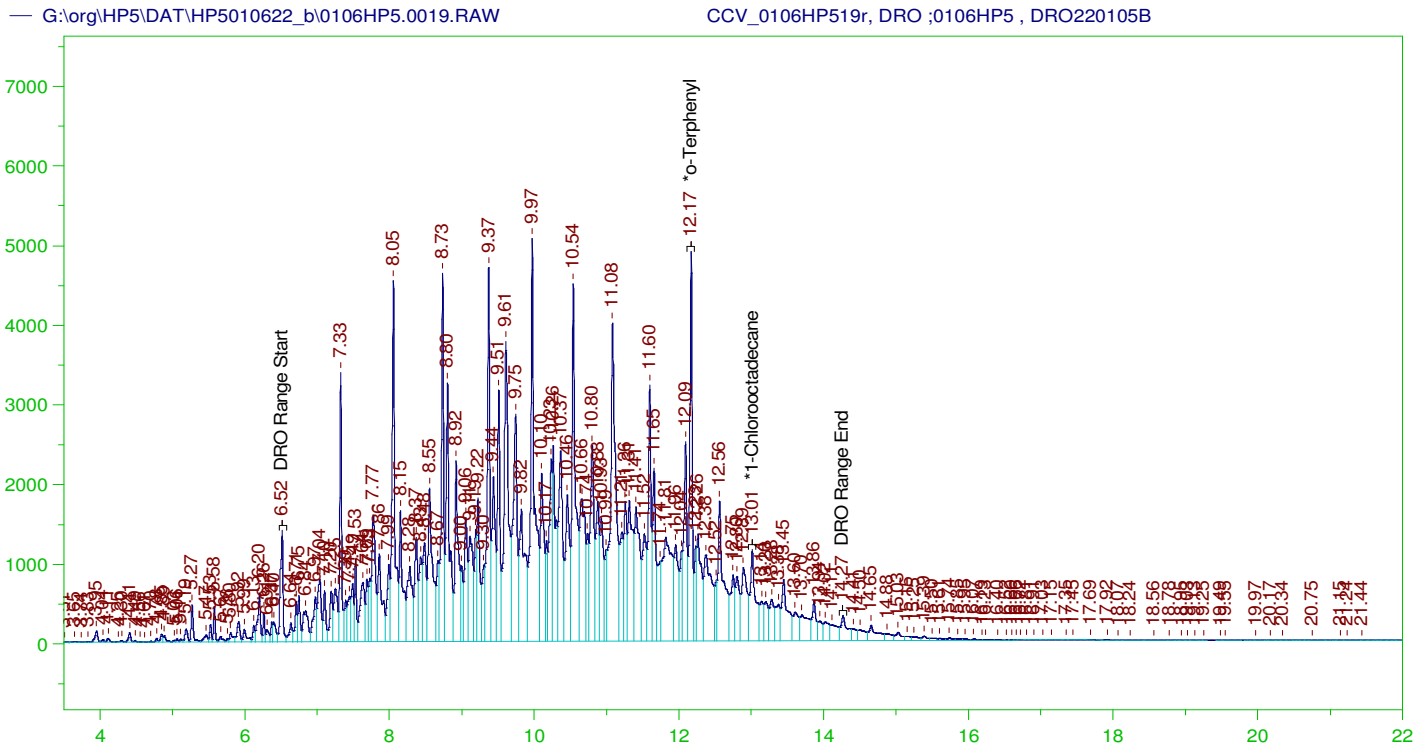
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.238	500.	205.352	41.07	-

RRO Area:6266565 RRO AMOUNT: 219.5528

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0018.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.05	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.238	200.	205.352	102.68	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP519r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0019.RAW
Date & Time Acquired: 1/6/2022 8:47:05 PM
Method File: G:\Org\HP5\Methods\DC_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

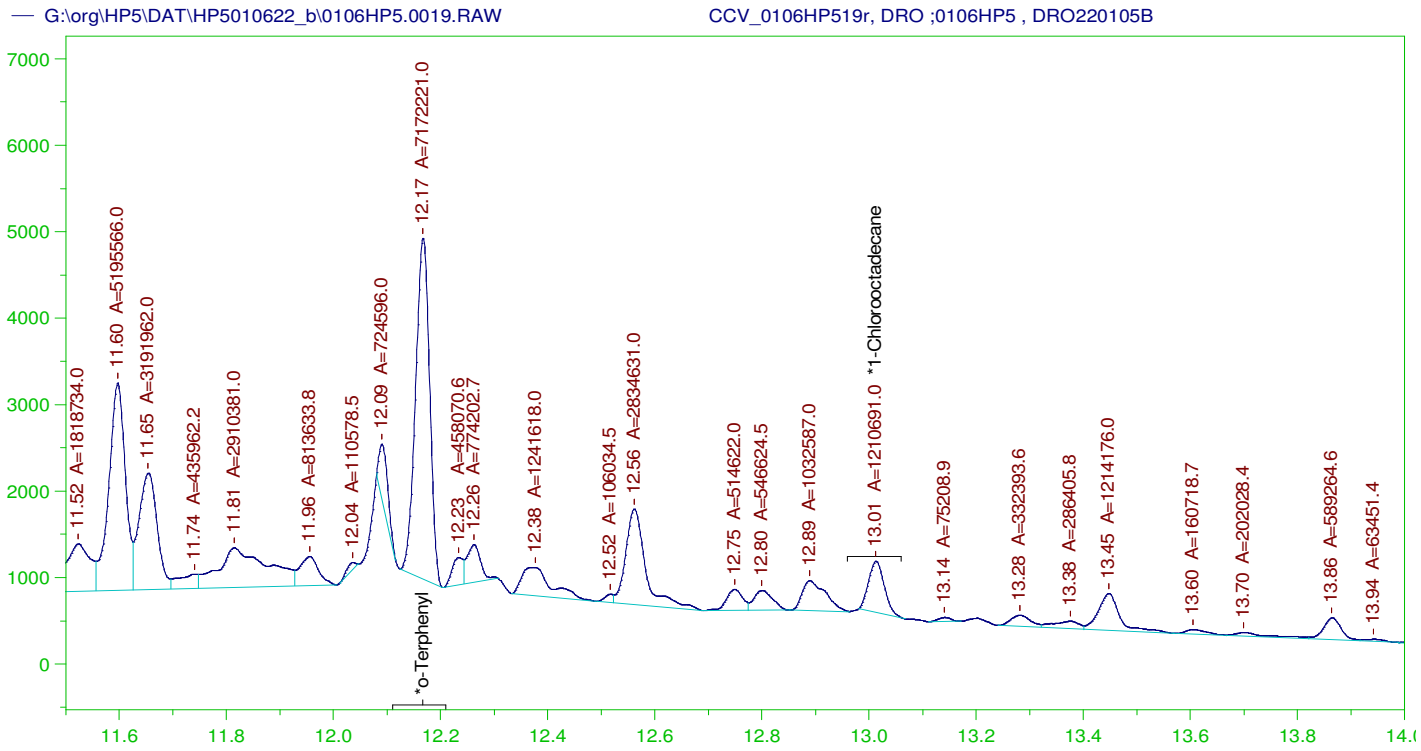
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.167	200.	331.893	165.95	-
*1-Chlorooctadecane	13.013	200.	165.038	82.52	-

DRO Area:4.804415E+08 DRO Amount: 15323.53
TEH Area:4.976311E+08 TEH Amount: 15871.78

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0019.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15871.78	105.81	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.167	200.	331.893	165.95	85-115
*1-Chlorooctadecane	13.013	200.	165.038	82.52	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: CCV_0106HP519r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0019.RAW
Date & Time Acquired: 1/6/2022 8:47:05 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

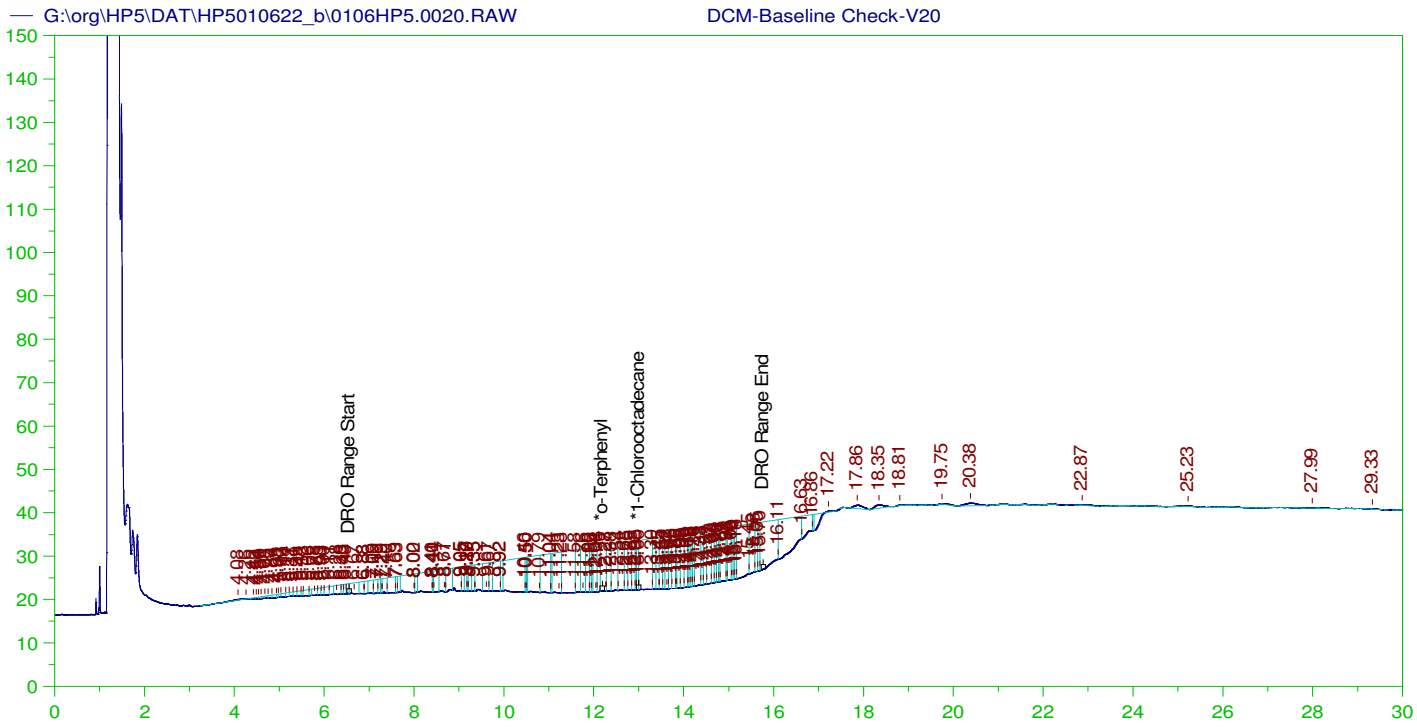
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.167	200.	201.982	100.99	-
*1-Chlorooctadecane	13.013	200.	34.095	17.05	-

DRO Area:2.667776E+08 DRO Amount: 8508.787
TEH Area:2.774924E+08 TEH Amount: 8850.532

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0019.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8850.53	59.	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.167	200.	201.982	100.99	85-115
*1-Chlorooctadecane	13.013	200.	34.095	17.05	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V20
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0020.RAW
Date & Time Acquired: 1/6/2022 9:30:30 PM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

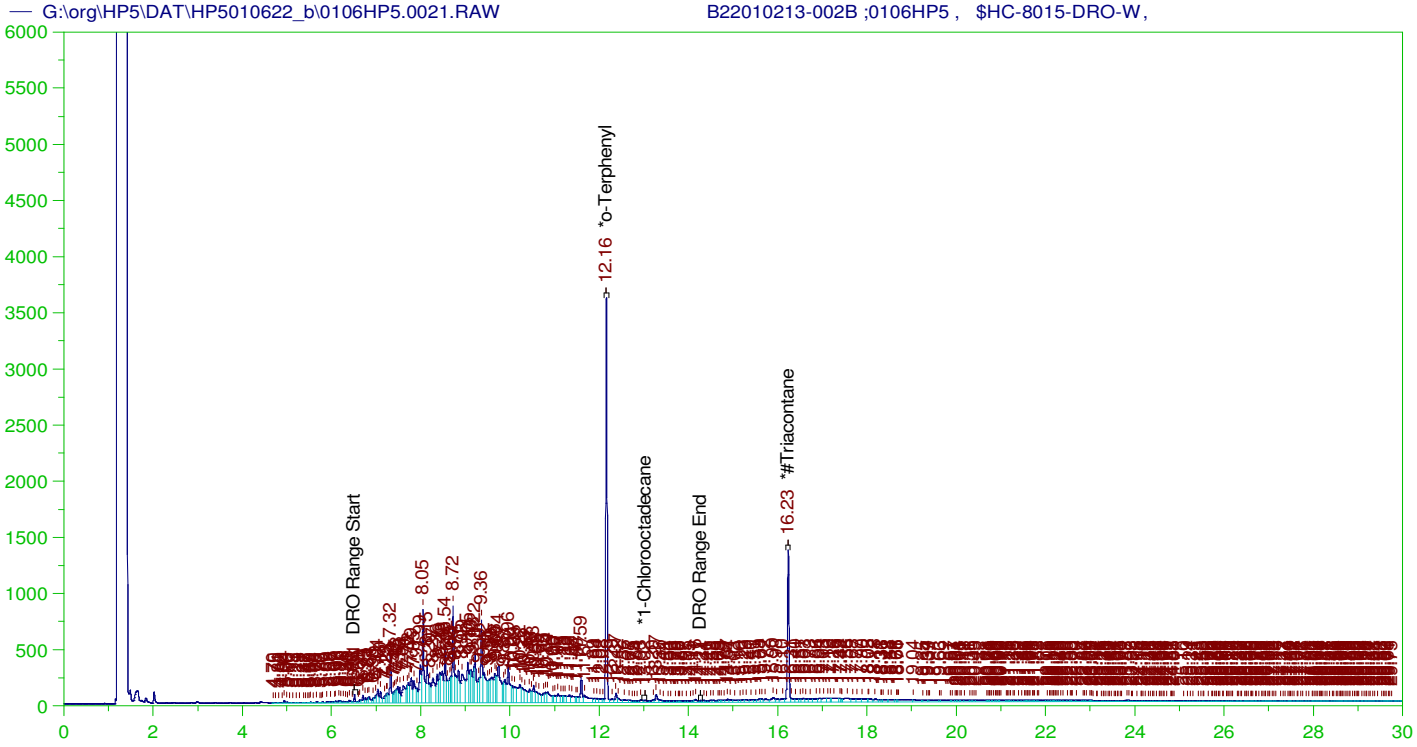
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	29.961	200.	.	.	-
*1-Chlorooctadecane	13.003	200.	5.782	2.89	-

DRO Area:4633478 DRO Amount: 147.7833
TEH Area:5123727 TEH Amount: 163.4196

ERH2333 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0021.RAW B22010213-002B ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-002B ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0021.RAW
Date & Time Acquired: 1/6/2022 10:13:54 PM
Method File: G:\Org\HP5\Methods\D3_8015-010621-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

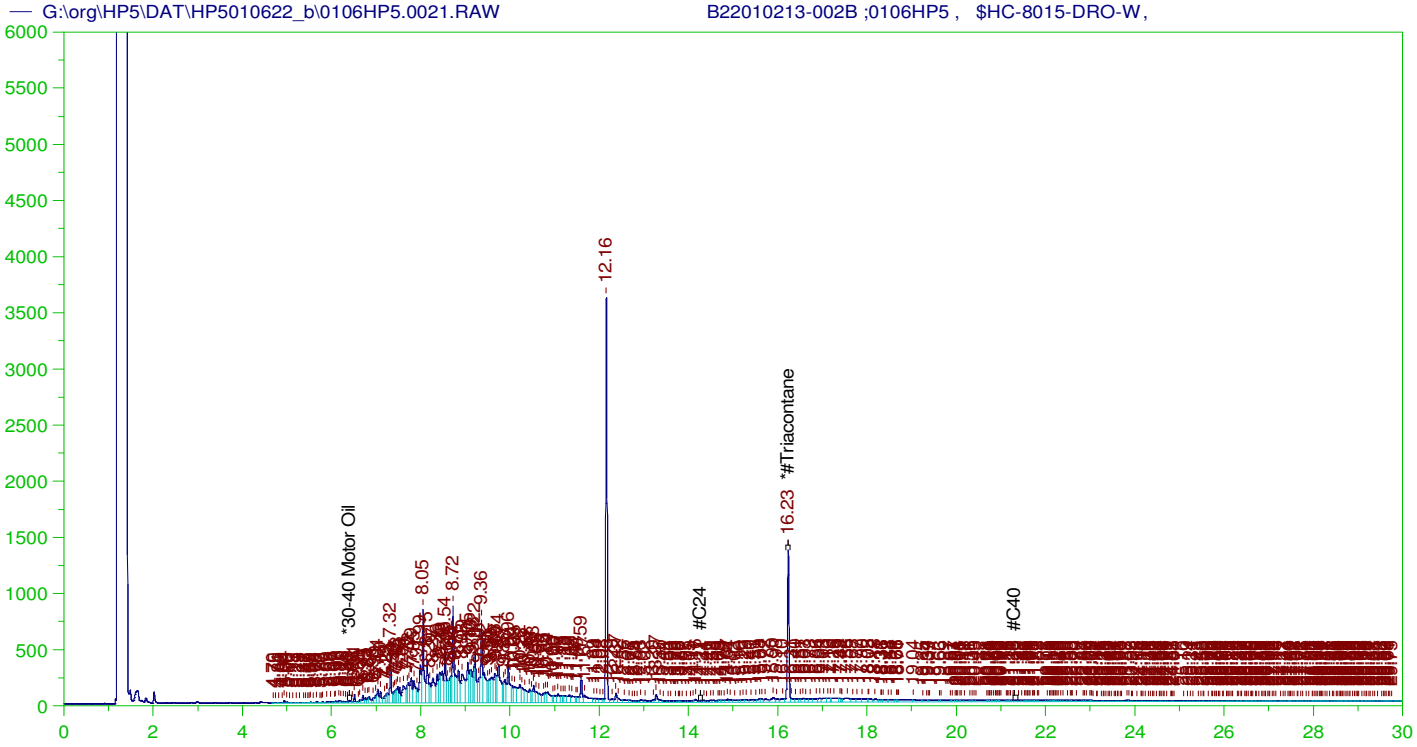
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.16	.2	.192	96.18	-
*1-Chlorooctadecane	13.024	.2	.003	1.64	-
*#Triacontane	16.231	.2	.122	61.12	-

DRO Area:5.096619E+07 DRO Amount: 1.62555
TEH Area:6.253207E+07 TEH Amount: 1.99444

ERH2333 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0021.RAW B22010213-002B ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010213-002B ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0021.RAW
Date & Time Acquired: 1/6/2022 10:13:54 PM
Method File: G:\Org\HP5\Methods\DR_OROS-010621-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

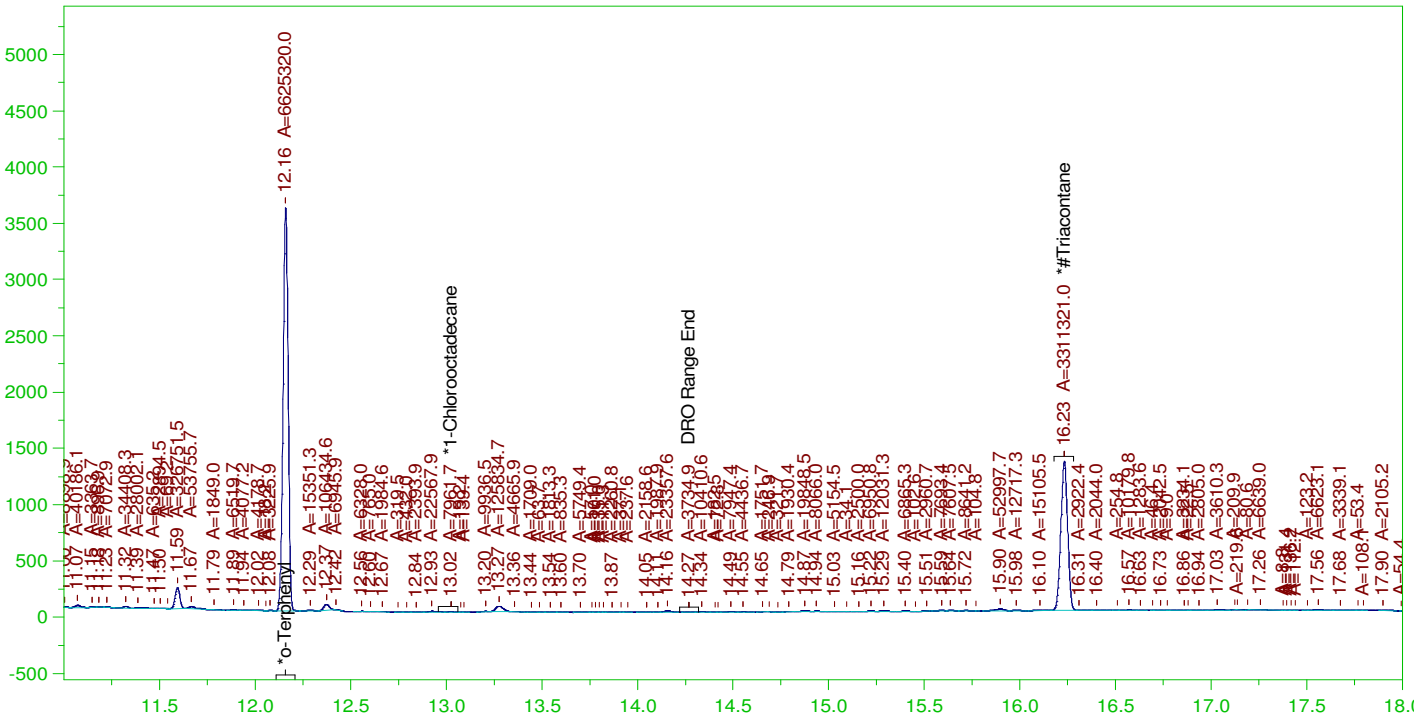
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.231	.5	.122	24.45	-

RRO Area:8413529 RRO AMOUNT: 0.2947729

ERH2333 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0021.RAW B22010213-002B ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-002B ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0021.RAW
Date & Time Acquired: 1/6/2022 10:13:54 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

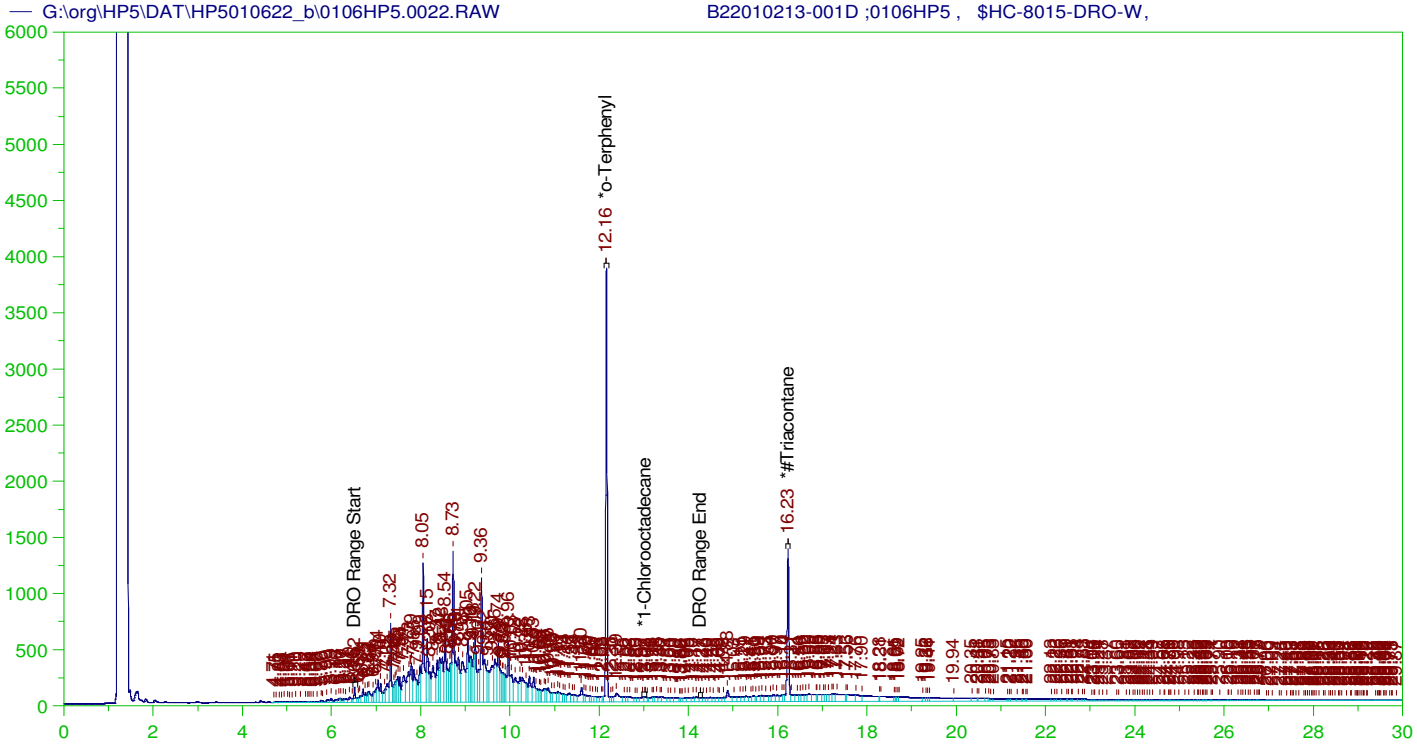
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.16	.2	.187	93.29	-
*1-Chlorooctadecane	13.024	.2	.	.11	-
*#Triacontane	16.231	.2	.114	57.23	-

DRO Area:3.53986E+07 DRO Amount: 1.129027
TEH Area:3.61274E+07 TEH Amount: 1.152272

ERH2332 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0022.RAW B22010213-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0022.RAW
Date & Time Acquired: 1/6/2022 10:57:16 PM
Method File: G:\Org\HP5\Methods\D3_8015-010621-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

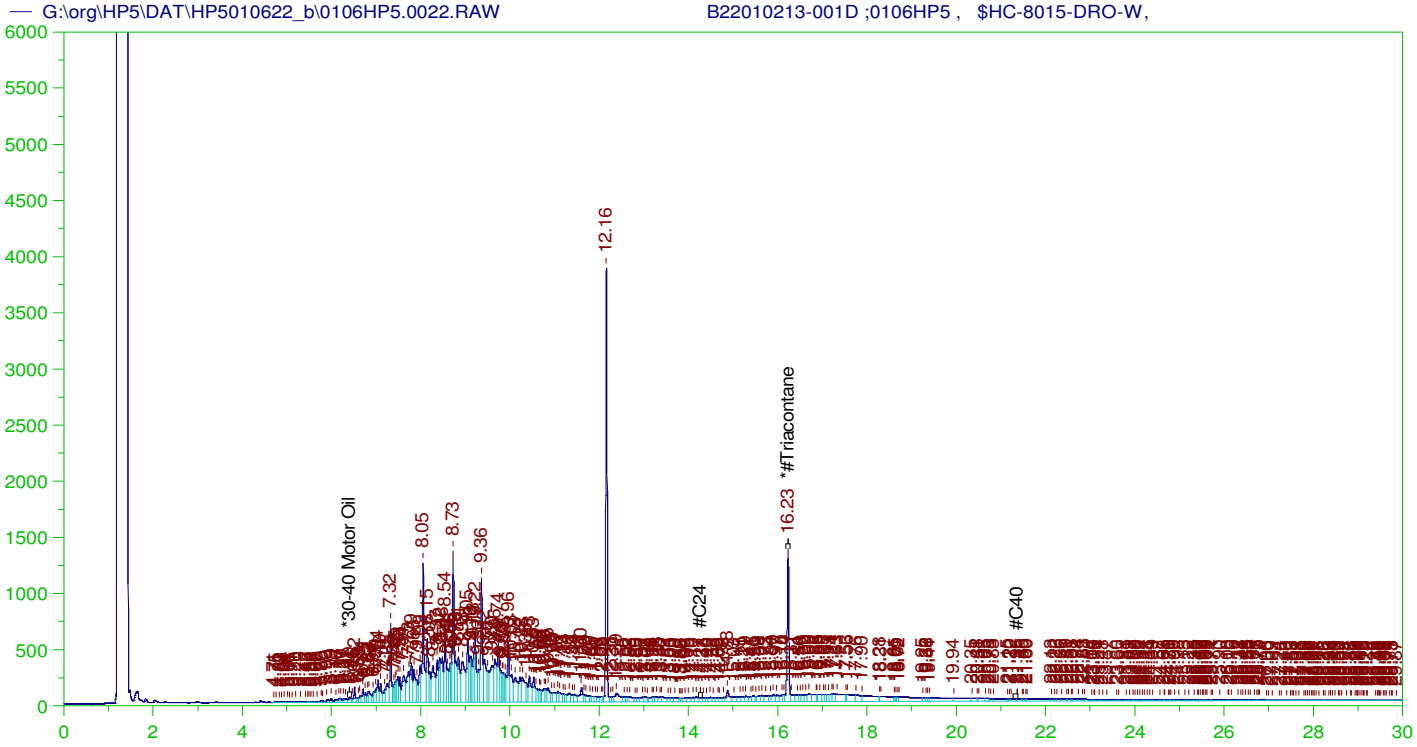
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.194	.203	104.46	-
*1-Chlorooctadecane	13.031	.194	.004	2.18	-
*#Triacontane	16.227	.194	.124	64.07	-

DRO Area:7.567436E+07 DRO Amount: 2.34331
TEH Area:9.78099E+07 TEH Amount: 3.028753

ERH2332 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0022.RAW B22010213-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010213-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0022.RAW
Date & Time Acquired: 1/6/2022 10:57:16 PM
Method File: G:\Org\HP5\Methods\DR_OROS-010621-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

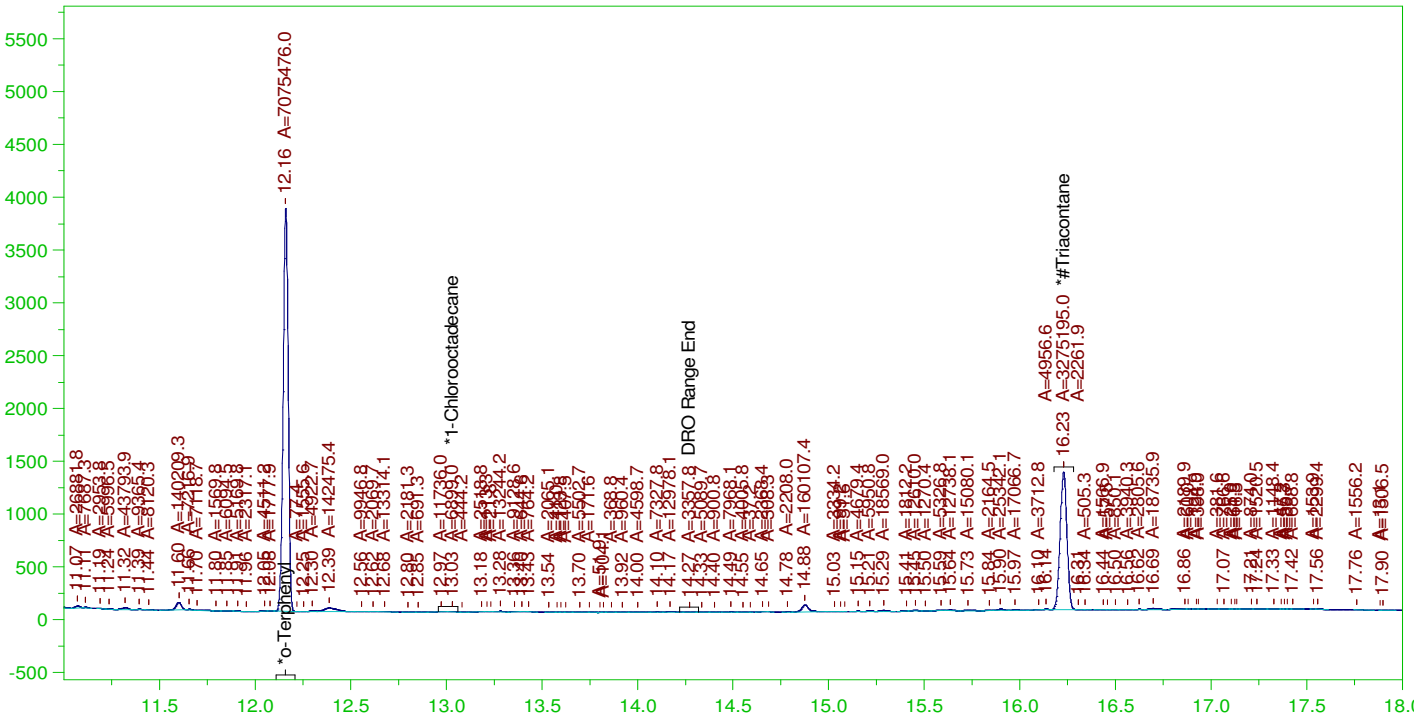
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.227	.485	.124	25.63	-

RRO Area:1.69262E+07 RRO AMOUNT: 0.575747

ERH2332 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0022.RAW B22010213-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0022.RAW
Date & Time Acquired: 1/6/2022 10:57:16 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

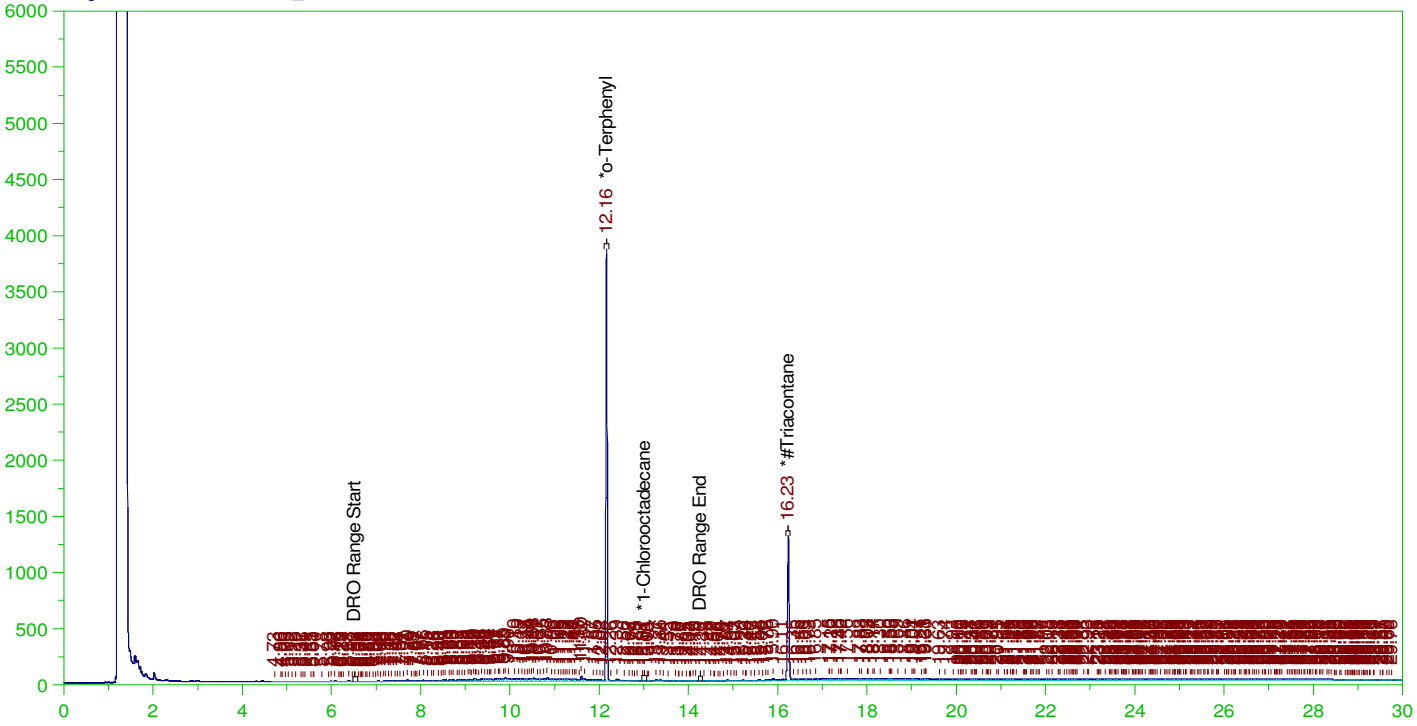
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.194	.193	99.63	-
*1-Chlorooctadecane	13.031	.194	. .1		-
*#Triacontane	16.227	.194	.11	56.61	-

DRO Area:5.104516E+07 DRO Amount: 1.580649
TEH Area:5.216387E+07 TEH Amount: 1.615291

ERH2334 (RHMW2254-01 LF) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0023.RAW B22010213-003D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-003D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0023.RAW
Date & Time Acquired: 1/6/2022 11:40:39 PM
Method File: G:\Org\HP5\Methods\D3_8015-010621-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

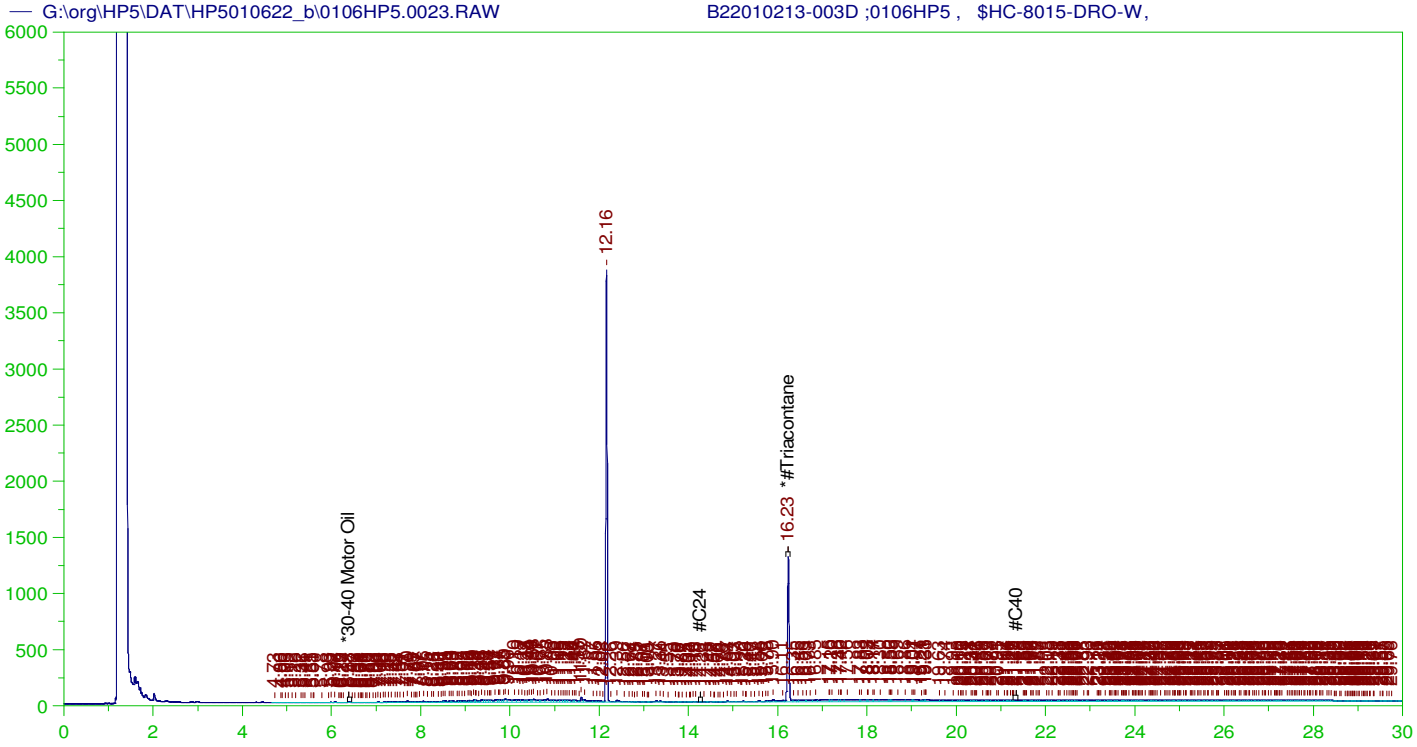
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.162	.196	.2	101.94	-
*1-Chlorooctadecane	13.012	.196	.	.15	-
*#Triacontane	16.232	.196	.115	58.44	-

DRO Area:4778307 DRO Amount: 0.1494143
TEH Area:1.259309E+07 TEH Amount: 0.393777

ERH2334 (RHMW2254-01 LF) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0023.RAW B22010213-003D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010213-003D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0023.RAW
Date & Time Acquired: 1/6/2022 11:40:39 PM
Method File: G:\Org\HP5\Methods\DR_OROS-010621-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

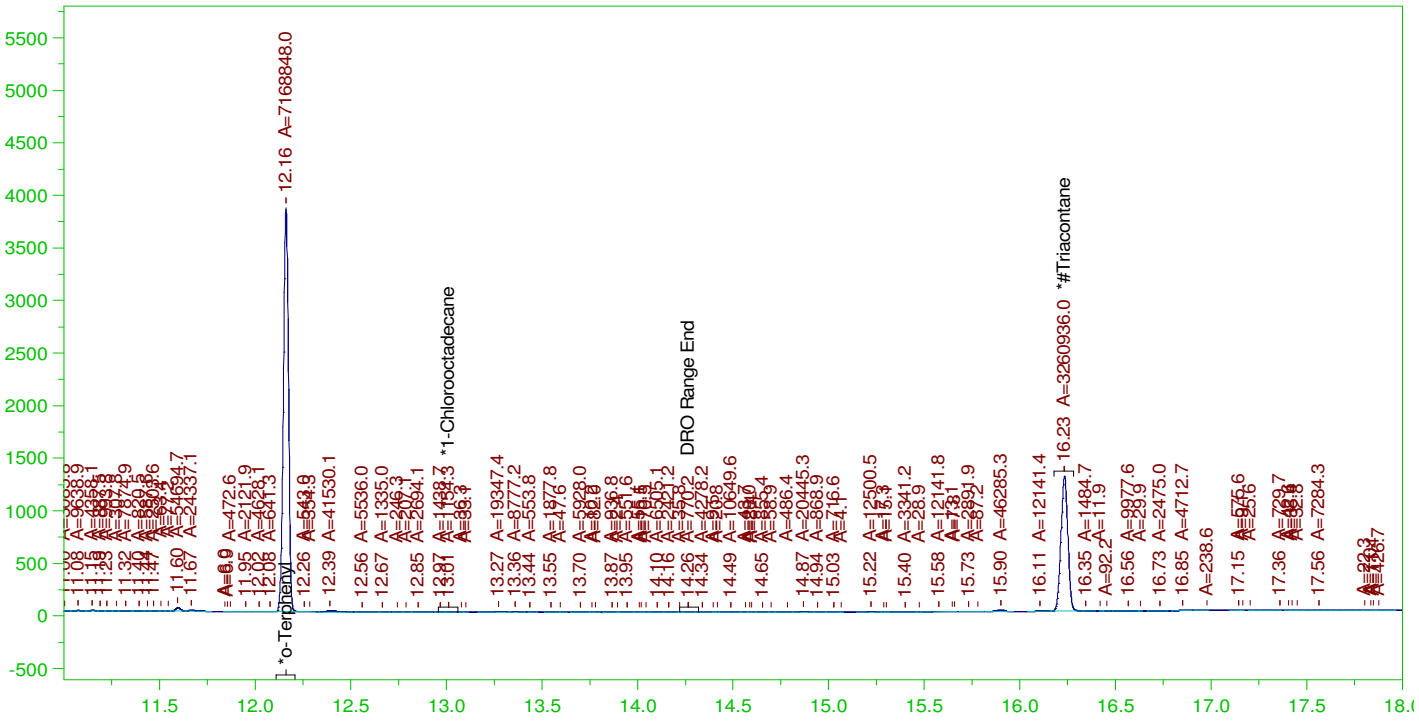
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.232	.49	.115	23.38	-

RRO Area:5081009 RRO AMOUNT: 0.1745256

ERH2334 (RHMW2254-01 LF) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0023.RAW B22010213-003D ;0106HP5 , $HC-8015-DRO-W,



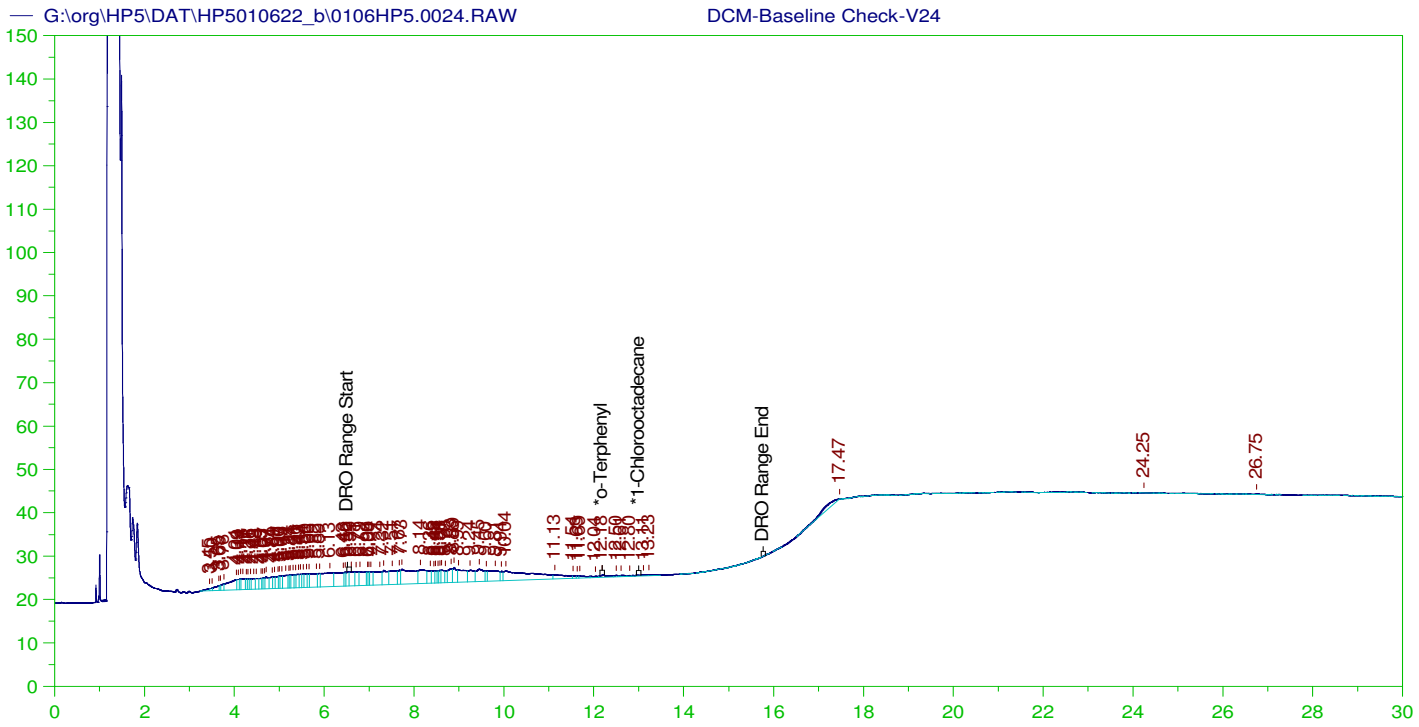
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-003D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0023.RAW
Date & Time Acquired: 1/6/2022 11:40:39 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.162	.196	.198	100.94	-
*1-Chlorooctadecane	13.012	.196	.	.02	-
*#Triacontane	16.232	.196	.111	56.36	-

DRO Area:1408939 DRO Amount: 4.405653E-02
TEH Area:1826511 TEH Amount: 0.0571137



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V24
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0024.RAW
Date & Time Acquired: 1/7/2022 12:24:04 AM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

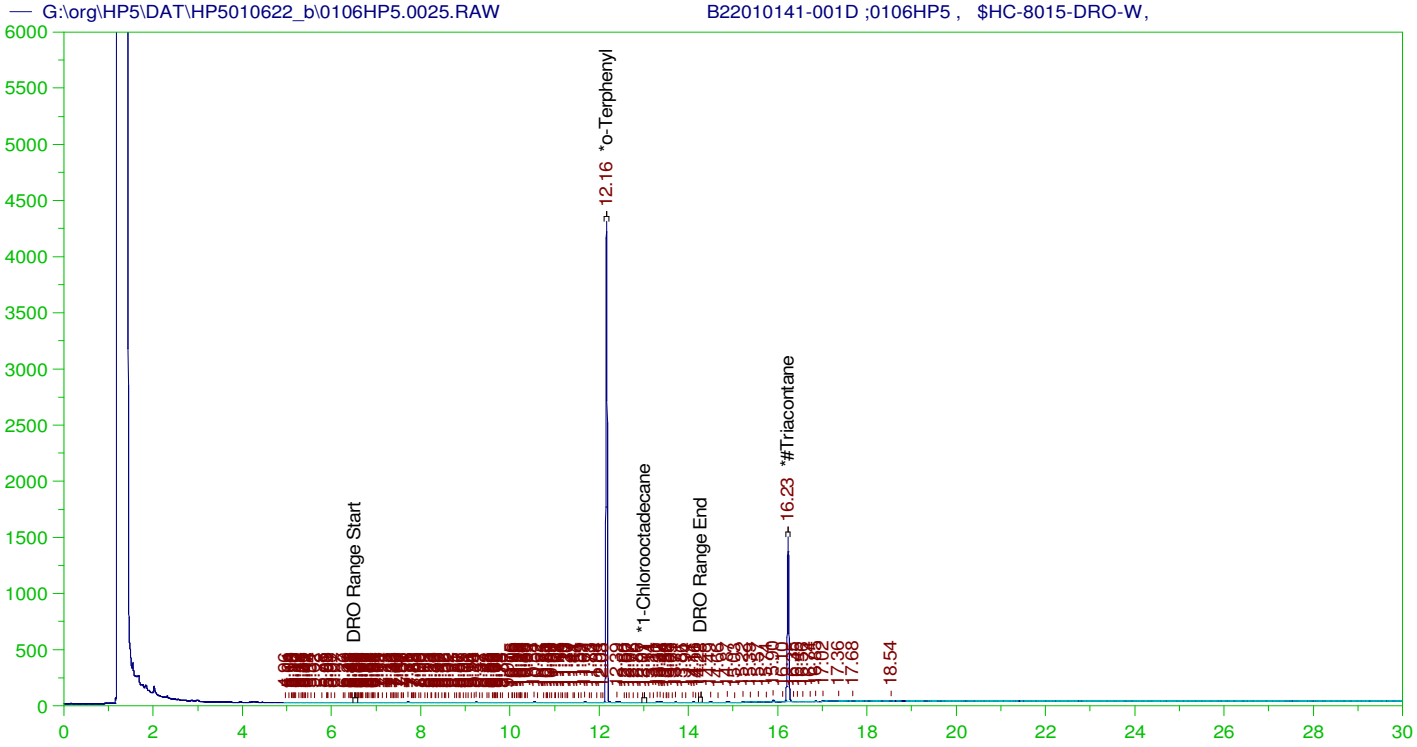
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.182	200.	.177	.09	-
*1-Chlorooctadecane	29.938	200.	.	.	-

DRO Area:746266.5 DRO Amount: 23.80193
TEH Area:1257505 TEH Amount: 40.10771

ERH2309 (RHMW16) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0025.RAW B22010141-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010141-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0025.RAW
Date & Time Acquired: 1/7/2022 1:07:28 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

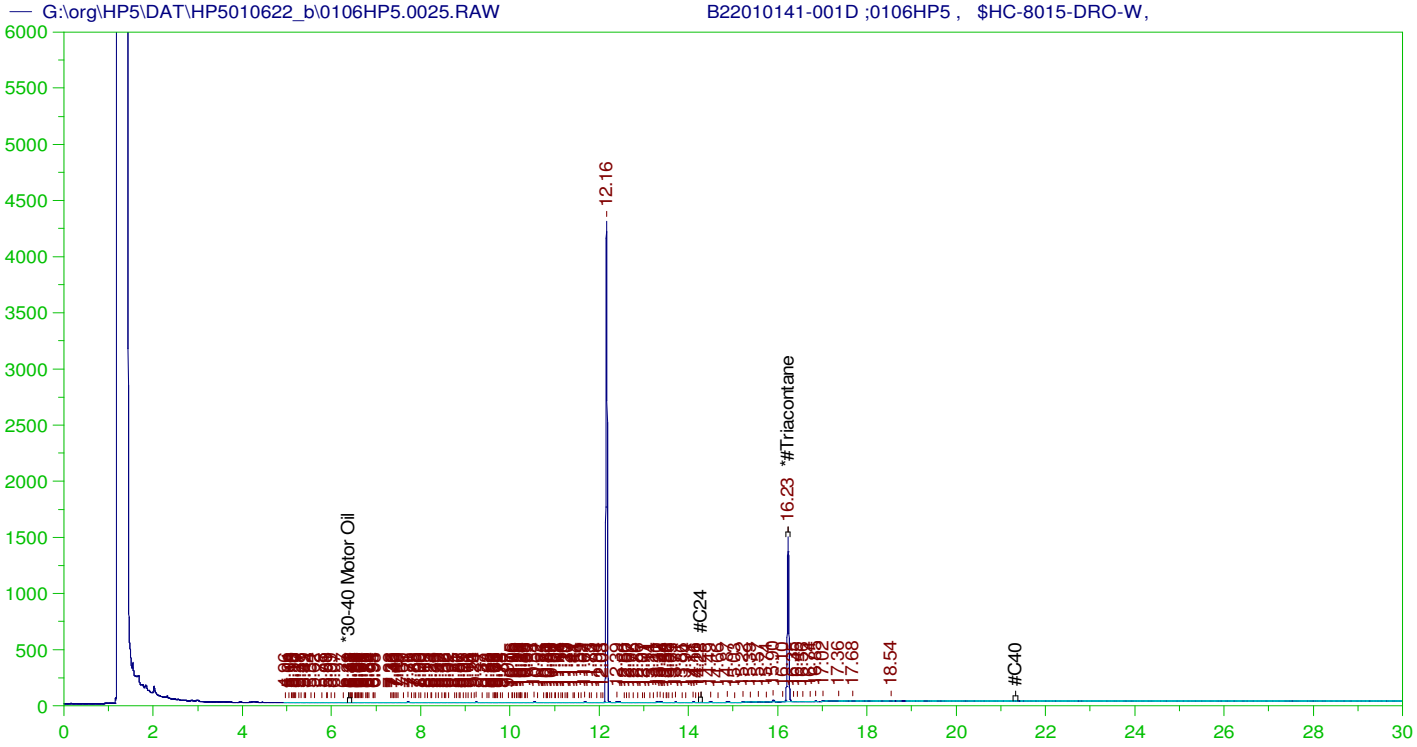
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.163	.194	.22	113.52	-
*1-Chlorooctadecane	13.013	.194	.	.02	-
*#Triacontane	16.228	.194	.124	64.06	-

DRO Area:502897.8 DRO Amount: 1.557259E-02
TEH Area:808044.9 TEH Amount: 2.502168E-02

ERH2309 (RHMW16) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0025.RAW B22010141-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010141-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0025.RAW
Date & Time Acquired: 1/7/2022 1:07:28 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

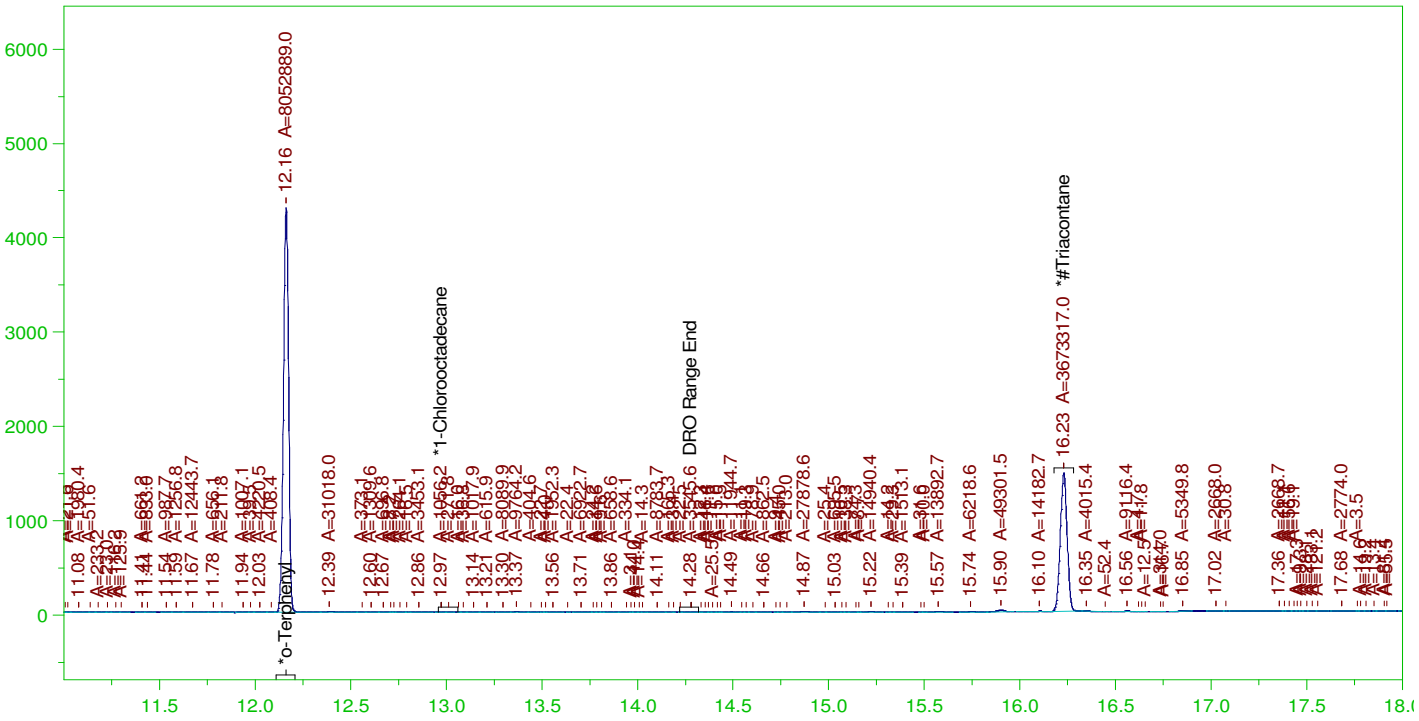
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.228	.485	.124	25.62	-

RRO Area:215033.2 RRO AMOUNT: 7.314381E-03

ERH2309 (RHMW16) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0025.RAW B22010141-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010141-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0025.RAW
Date & Time Acquired: 1/7/2022 1:07:28 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

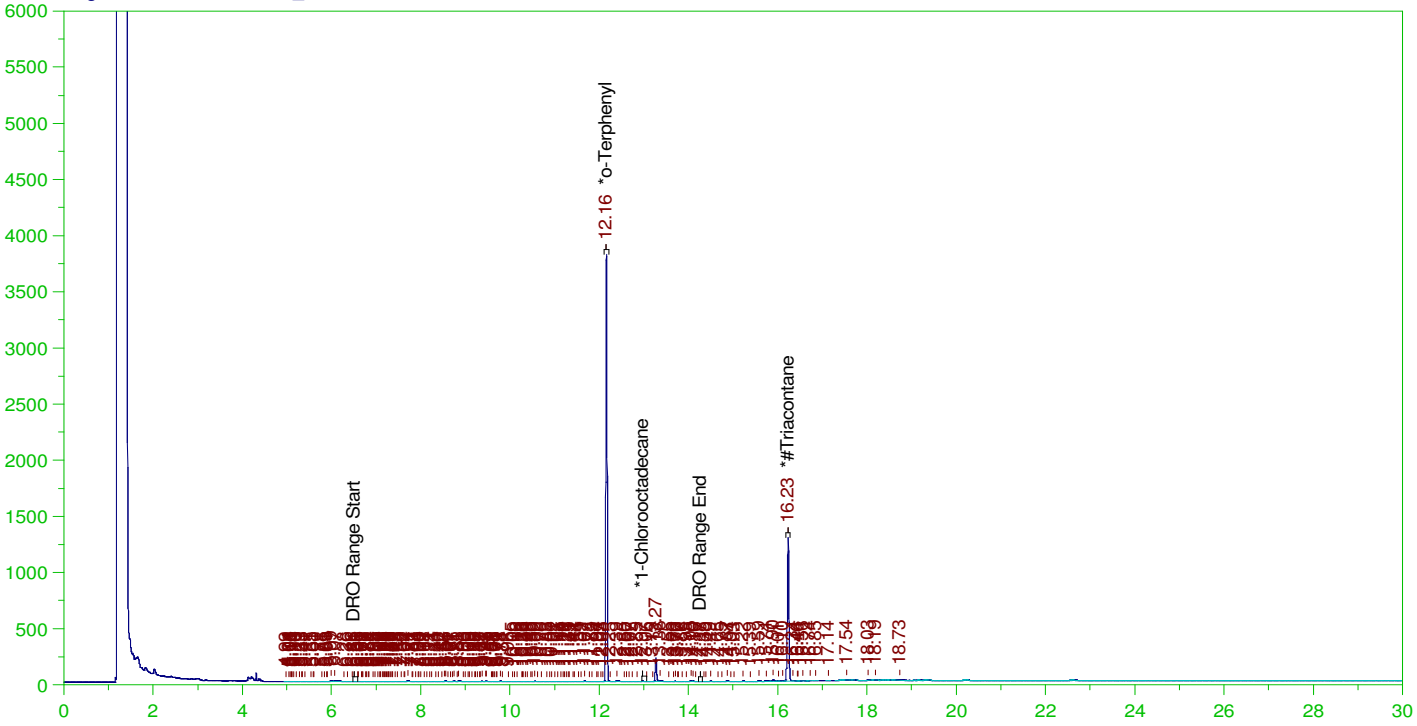
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.163	.194	.22	113.39	-
*1-Chlorooctadecane	12.974	.194	.01		-
*#Triacontane	16.228	.194	.123	63.49	-

DRO Area:305989.1 DRO Amount: 9.475168E-03
TEH Area:710739.8 TEH Amount: 2.200856E-02

ERH2321 (RHMW14 Zone3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0026.RAW B22010214-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010214-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0026.RAW
Date & Time Acquired: 1/7/2022 1:50:50 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

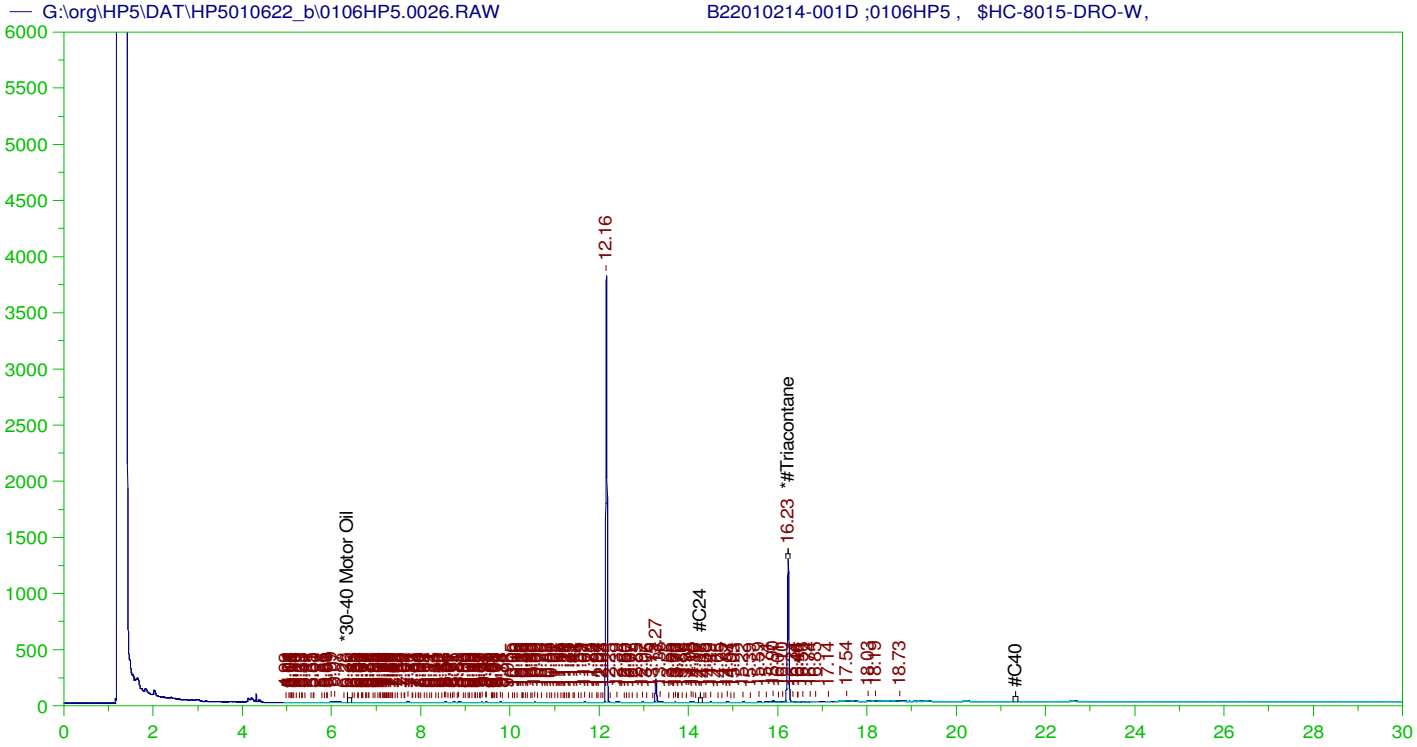
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.19	.19	99.54	-
*1-Chlorooctadecane	12.971	.19	.001	.27	-
*#Triacontane	16.229	.19	.108	56.45	-

DRO Area:1250788 DRO Amount: 0.0379938
TEH Area:1671461 TEH Amount: 5.077209E-02

ERH2321 (RHMW14 Zone3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0026.RAW B22010214-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010214-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0026.RAW
Date & Time Acquired: 1/7/2022 1:50:50 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

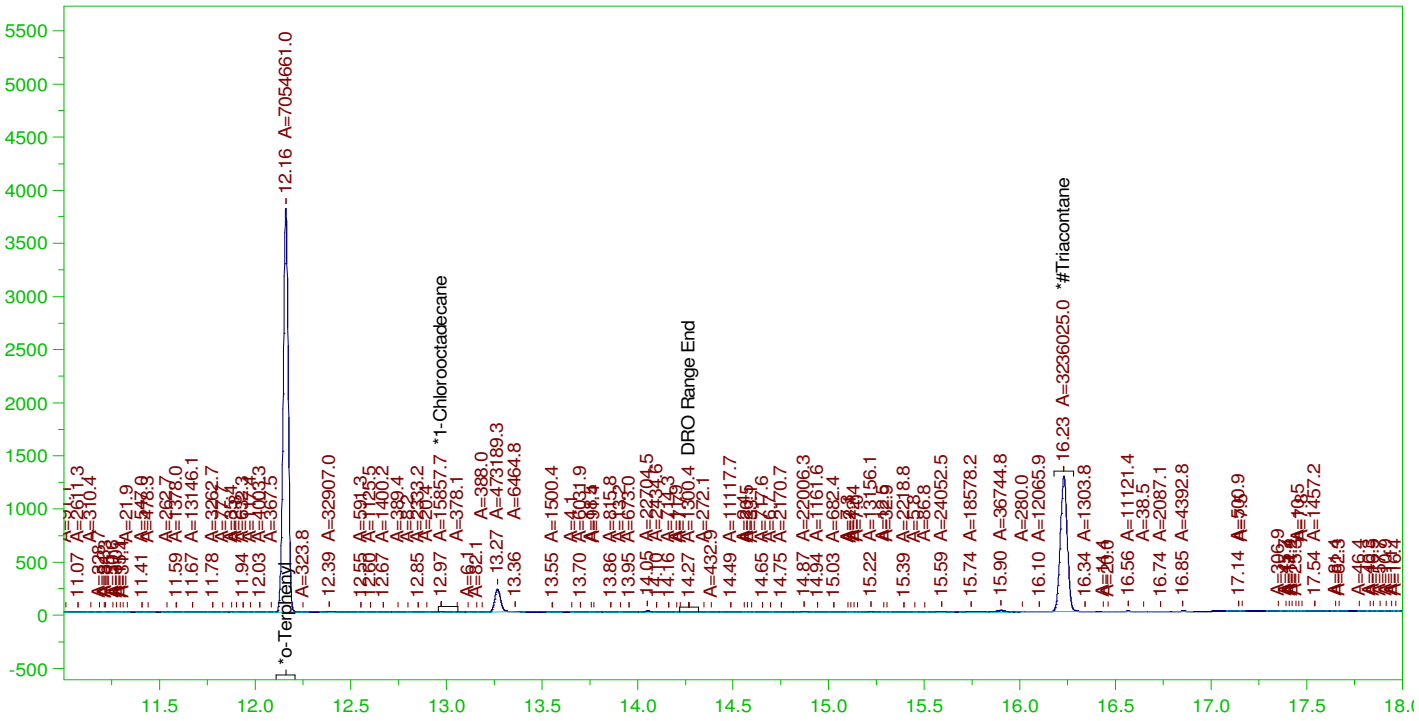
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.229	.476	.108	22.58	-

RRO Area:240144.4 RRO AMOUNT: 8.012951E-03

ERH2321 (RHMW14 Zone3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0026.RAW B22010214-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010214-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0026.RAW
Date & Time Acquired: 1/7/2022 1:50:50 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

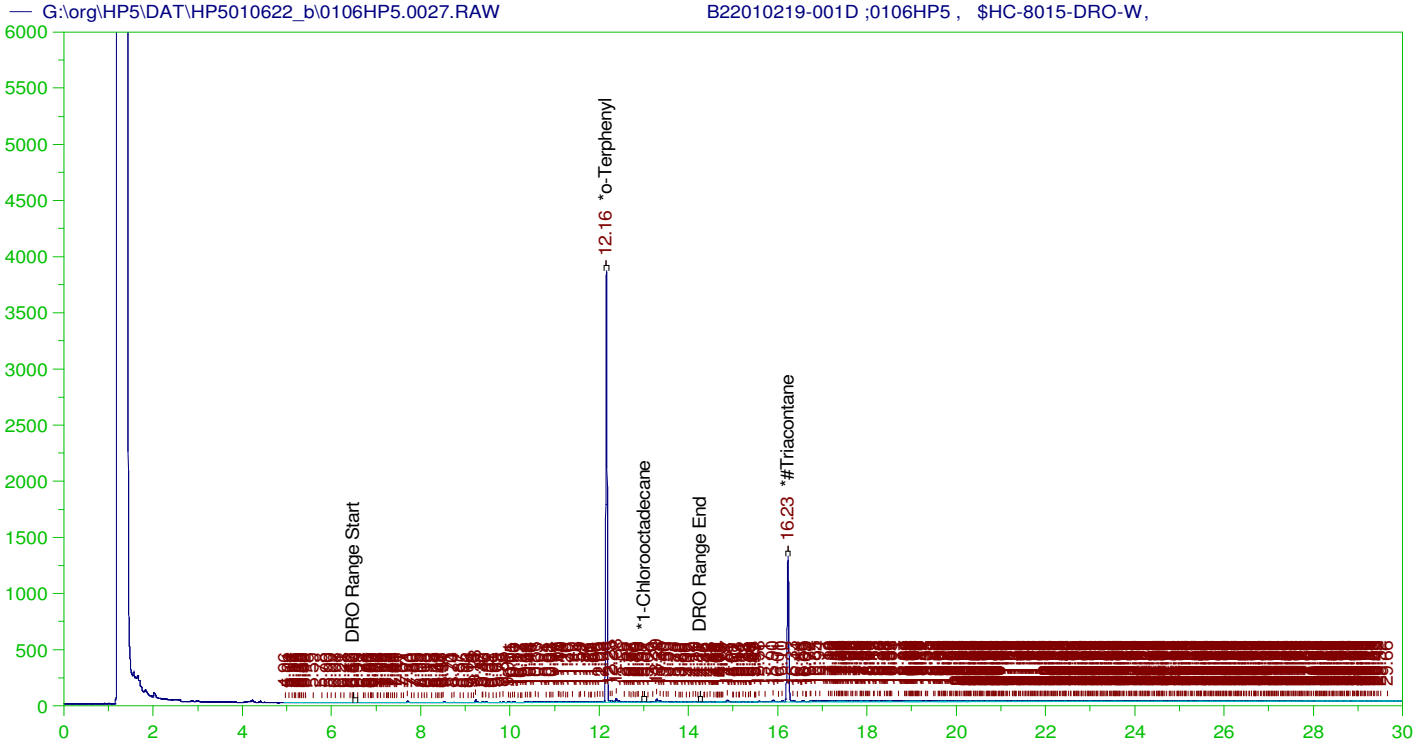
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.19	.189	99.34	-
*1-Chlorooctadecane	12.971	.19	.	.22	-
*#Triacontane	16.229	.19	.107	55.93	-

DRO Area:1057582 DRO Amount: 0.032125
TEH Area:2042025 TEH Amount: 6.202832E-02

ERH2301 (OWDFMW05A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0027.RAW B22010219-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010219-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0027.RAW
Date & Time Acquired: 1/7/2022 2:34:15 AM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

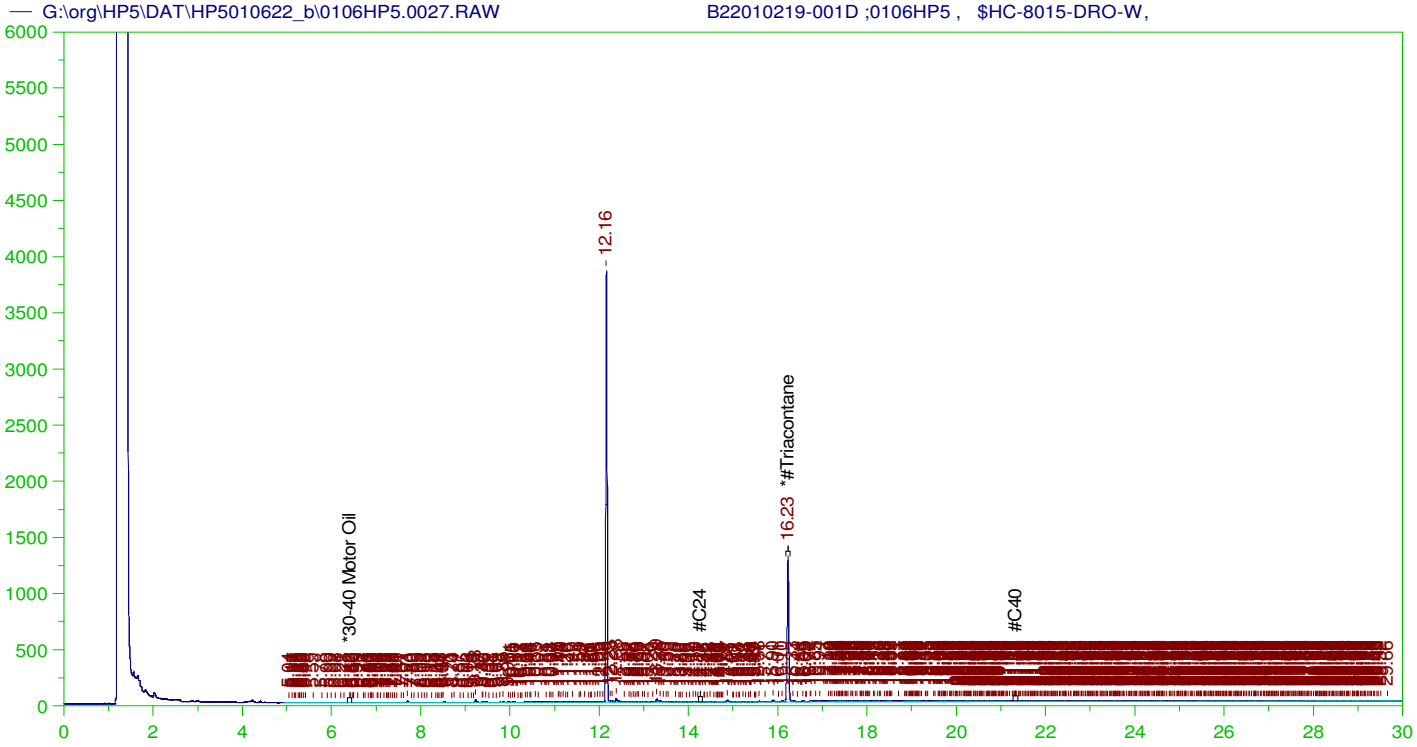
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.2	.203	101.3	-
*1-Chlorooctadecane	13.015	.2	.001	.34	-
*#Triacontane	16.225	.2	.117	58.26	-

DRO Area:1775737 DRO Amount: 5.663655E-02
TEH Area:7366031 TEH Amount: 0.2349372

ERH2301 (OWDFMW05A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0027.RAW B22010219-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010219-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0027.RAW
Date & Time Acquired: 1/7/2022 2:34:15 AM
Method File: G:\Org\HP5\Methods\D3_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

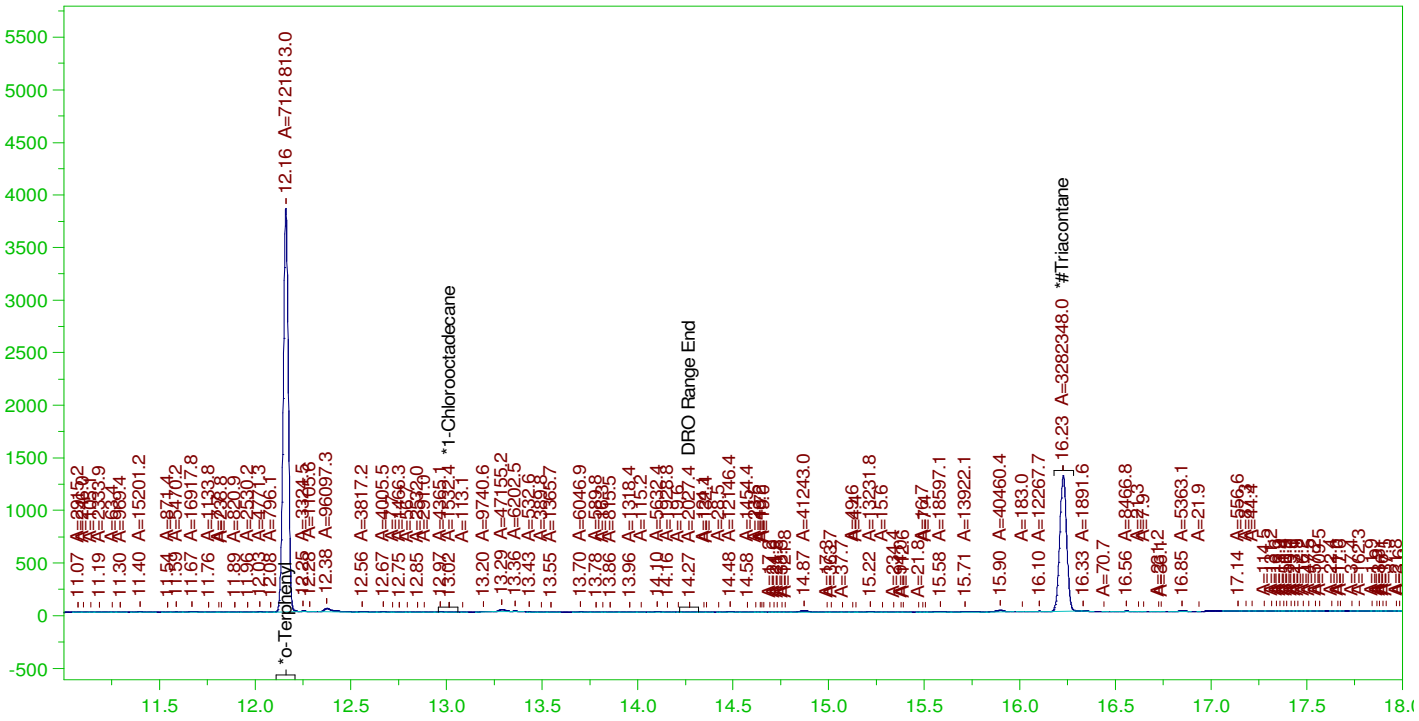
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.225	.5	.117	23.31	-

RRO Area:3554104 RRO AMOUNT: 0.1245201

ERH2301 (OWDFMW05A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0027.RAW B22010219-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010219-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0027.RAW
Date & Time Acquired: 1/7/2022 2:34:15 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

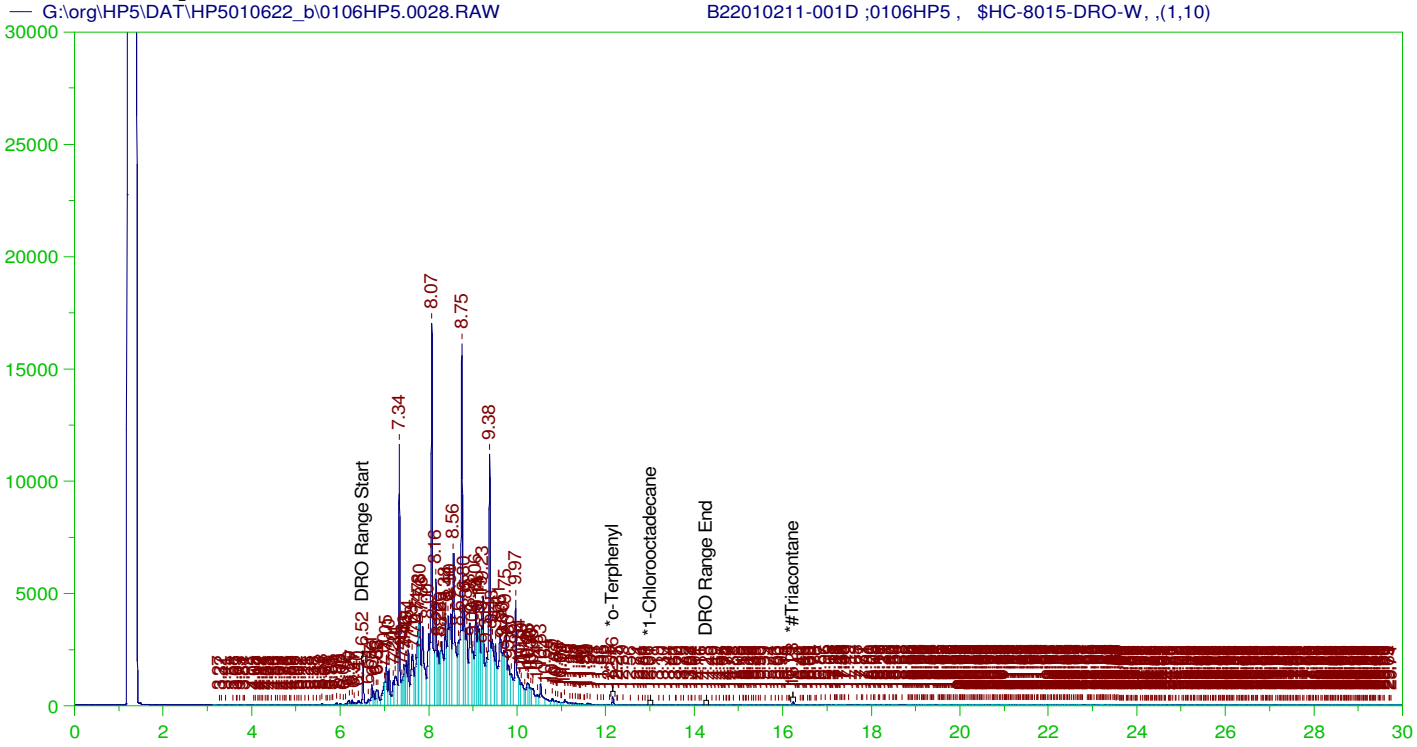
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.2	.201	100.28	-
*1-Chlorooctadecane	13.015	.2	.	.02	-
*#Triacontane	16.225	.2	.113	56.73	-

DRO Area:627850.7 DRO Amount: 0.0200251
TEH Area:1180517 TEH Amount: 3.765221E-02

ERH2336 (Sump Adit3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0028.RAW B22010211-001D ;0106HP5 , $HC-8015-DRO-W, ,(1,10)



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010211-001D ;0106HP5 , $HC-8015-DRO-W, ,(1,10)
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0028.RAW
Date & Time Acquired: 1/7/2022 3:17:33 AM
Method File: G:\Org\HP5\Methods\D3_8015-010628-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1030 Dilution: 10 S.A.: 1

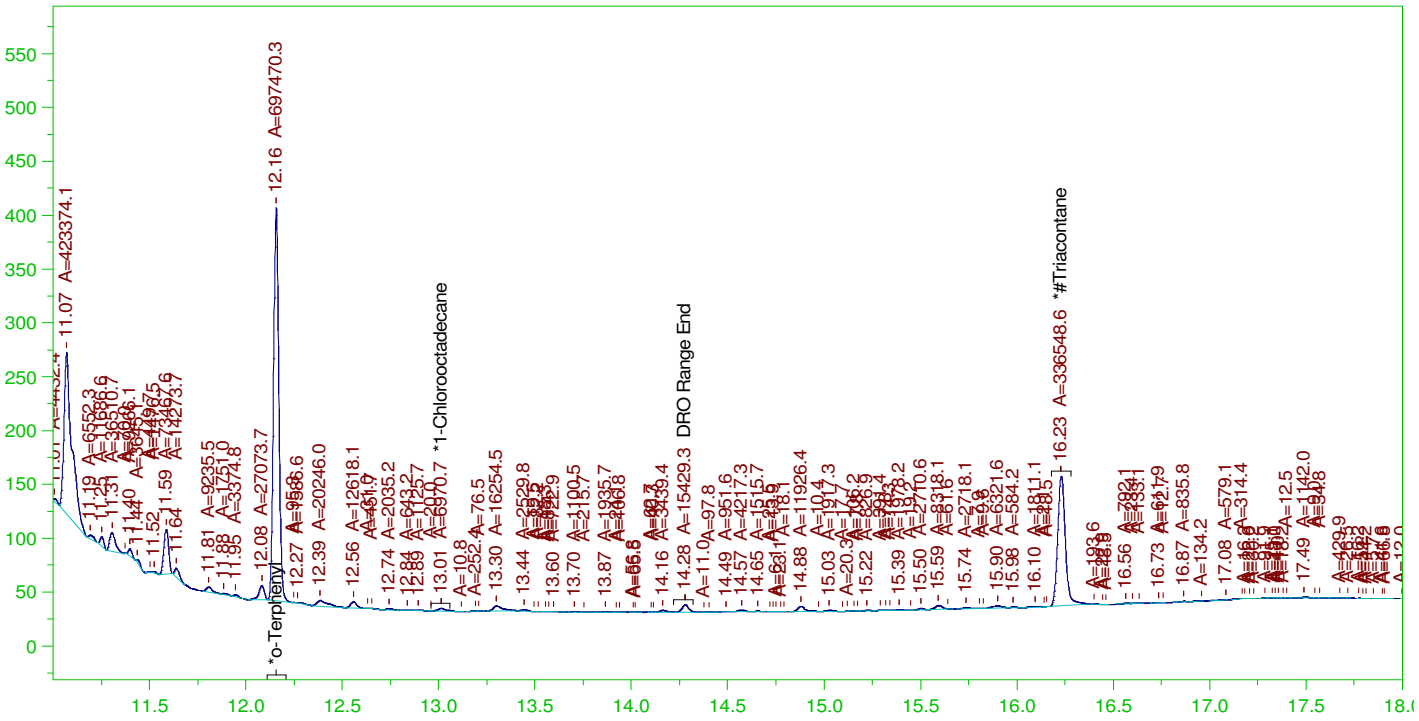
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.194	.218	112.13	-
*1-Chlorooctadecane	13.012	.194	.011	5.41	-
*#Triacontane	16.229	.194	.142	73.29	-

DRO Area:5.525606E+08 DRO Amount: 171.1043
TEH Area:5.615422E+08 TEH Amount: 173.8855

ERH2336 (Sump Adit3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0028.RAW B22010211-001D ;0106HP5 , $HC-8015-DRO-W, ,(1,10)



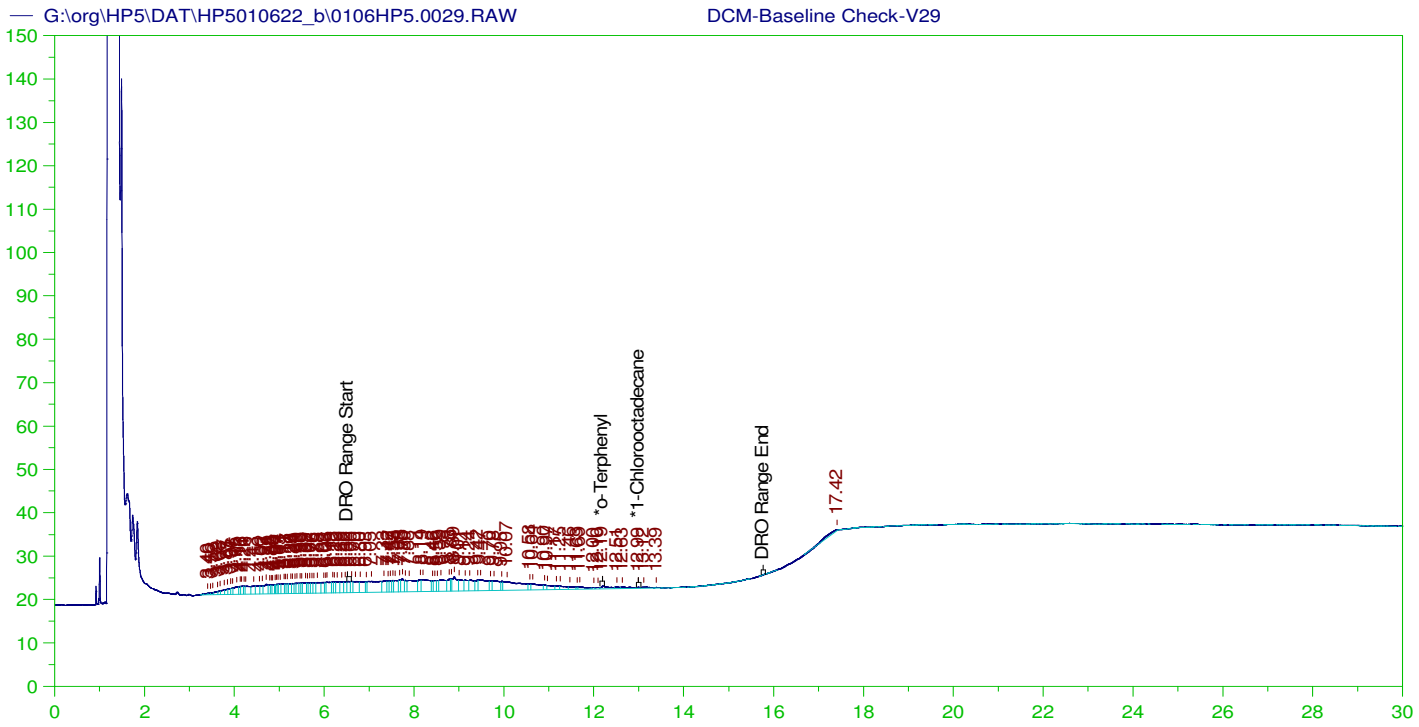
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010211-001D ;0106HP5 , $HC-8015-DRO-W, ,(1,10)
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0028.RAW
Date & Time Acquired: 1/7/2022 3:17:33 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1030 Dilution: 10 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.194	.191	98.21	-
*1-Chlorooctadecane	13.012	.194	.002	.98	-
*#Triacontane	16.229	.194	.113	58.17	-

DRO Area:5.193835E+08 DRO Amount: 160.8308
TEH Area:5.221435E+08 TEH Amount: 161.6854



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: DCM-Baseline Check-V29
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0029.RAW
Date & Time Acquired: 1/7/2022 4:01:02 AM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

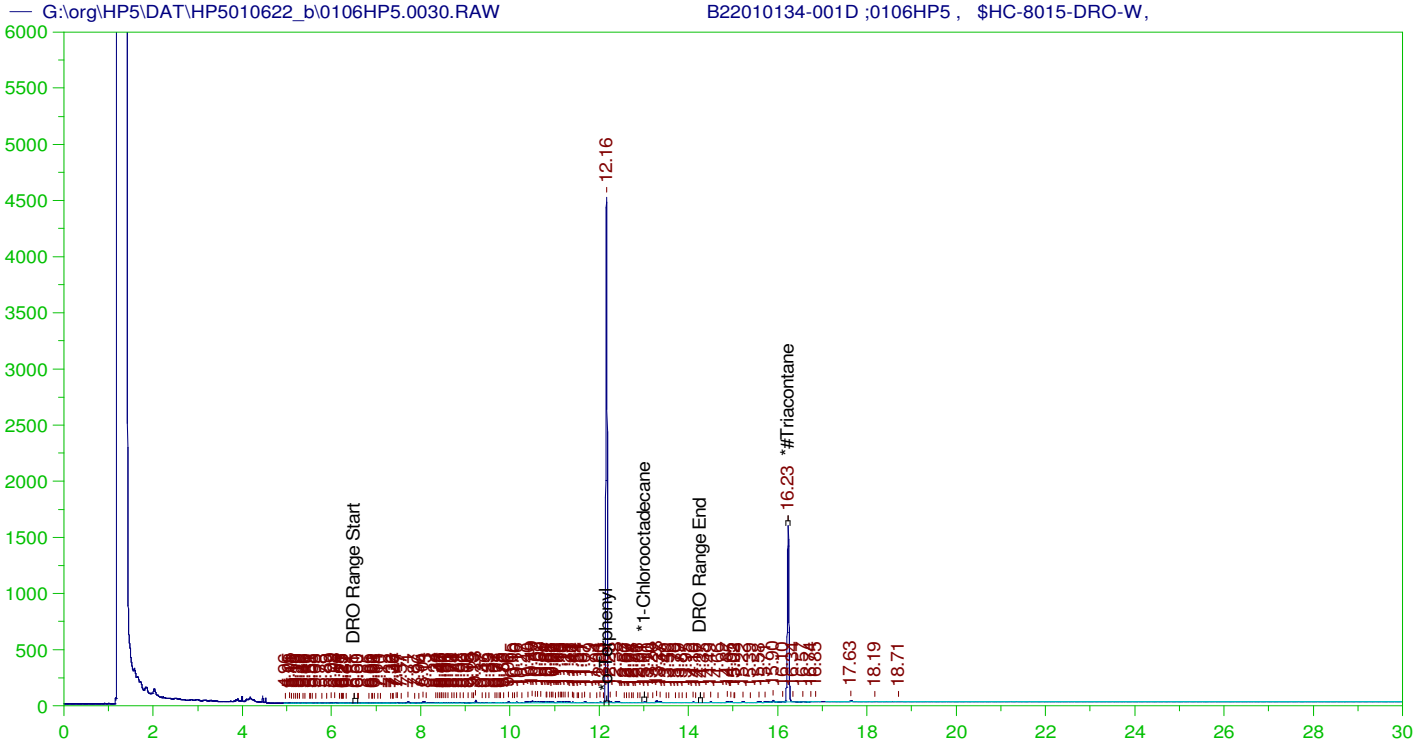
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.195	200.	.188	.09	-
*1-Chlorooctadecane	12.994	200.	.028	.01	-

DRO Area:648458.4 DRO Amount: 20.68237
TEH Area:1031307 TEH Amount: 32.89321

ERH2307 (RHMW13 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0030.RAW B22010134-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010134-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0030.RAW
Date & Time Acquired: 1/7/2022 4:44:24 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

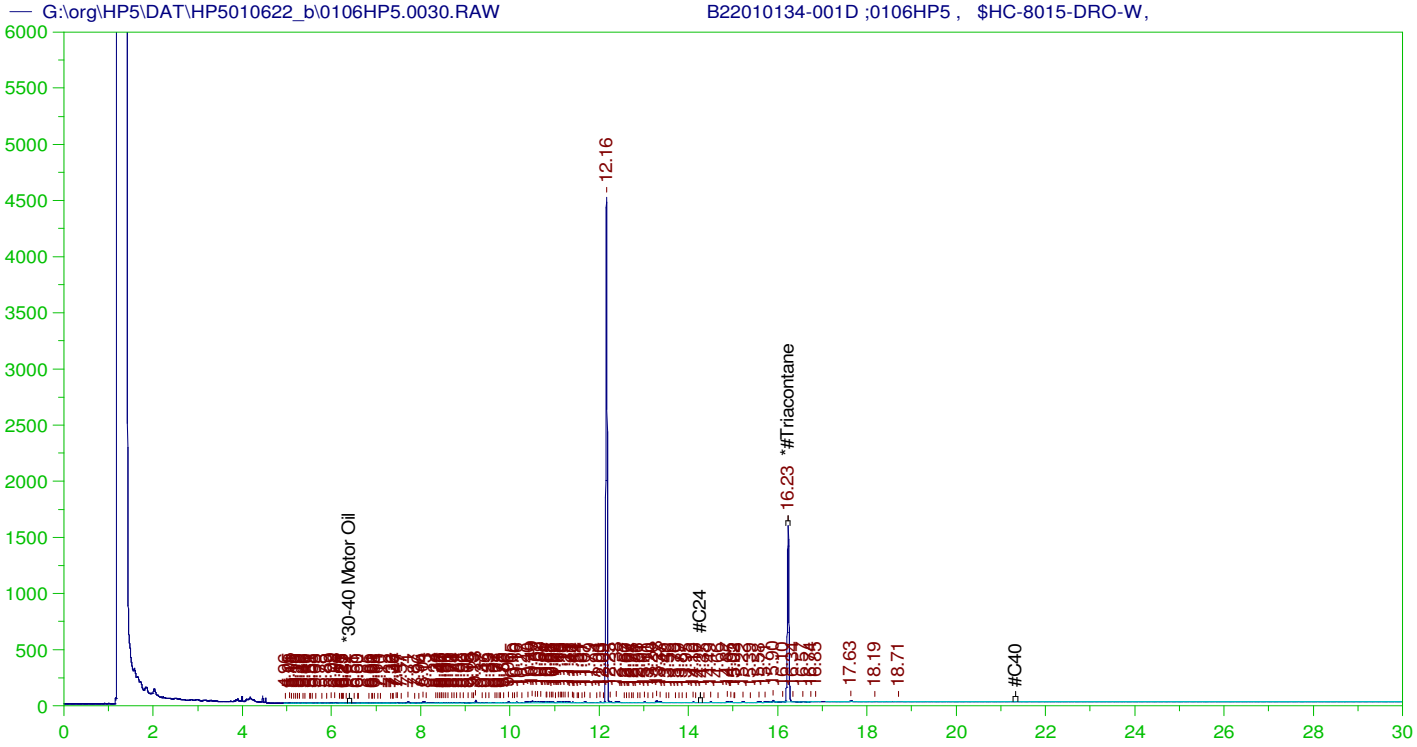
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.162	.192	.229	119.19	-
*1-Chlorooctadecane	13.014	.192	.001	.27	-
*#Triacontane	16.229	.192	.133	69.38	-

DRO Area:1258538 DRO Amount: 3.859679E-02
TEH Area:1592775 TEH Amount: 4.884716E-02

ERH2307 (RHMW13 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0030.RAW B22010134-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010134-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0030.RAW
Date & Time Acquired: 1/7/2022 4:44:24 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

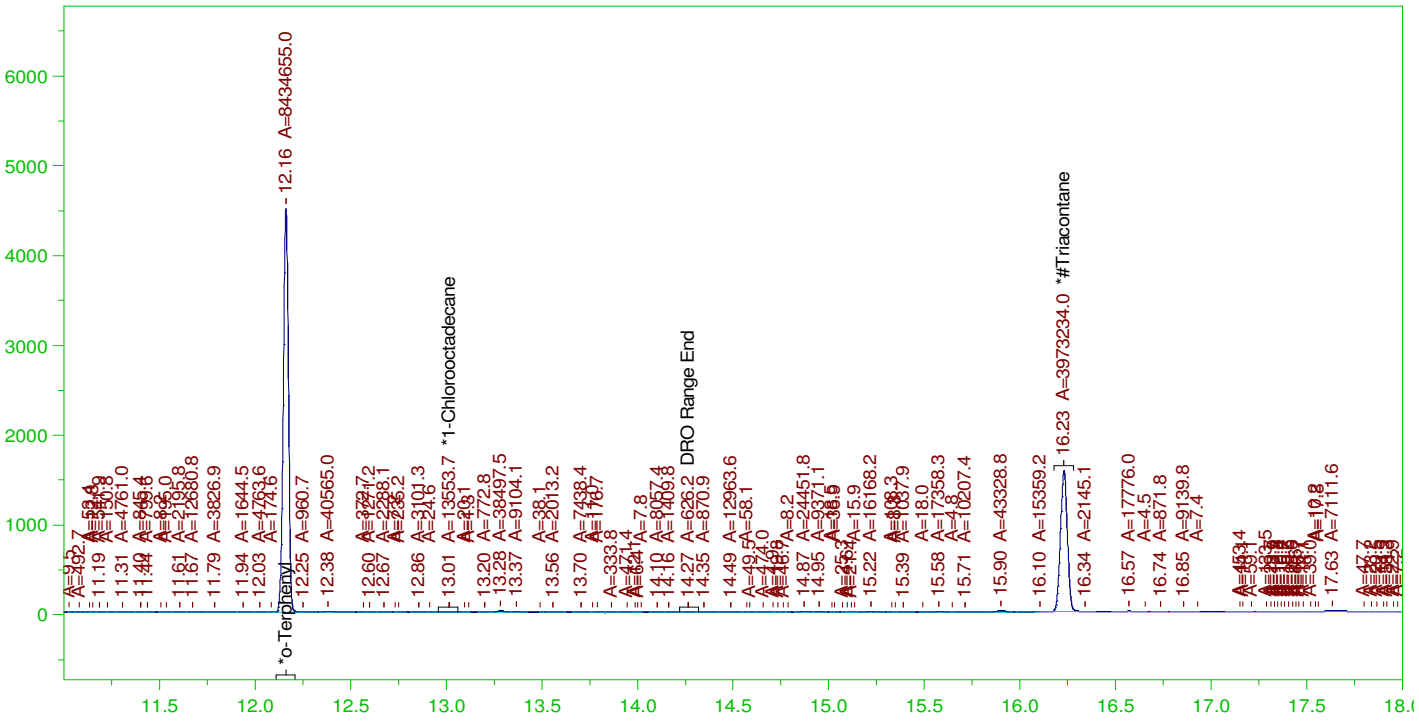
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.229	.481	.133	27.75	-

RRO Area:262152.8 RRO AMOUNT: 8.831421E-03

ERH2307 (RHMW13 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0030.RAW B22010134-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010134-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0030.RAW
Date & Time Acquired: 1/7/2022 4:44:24 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

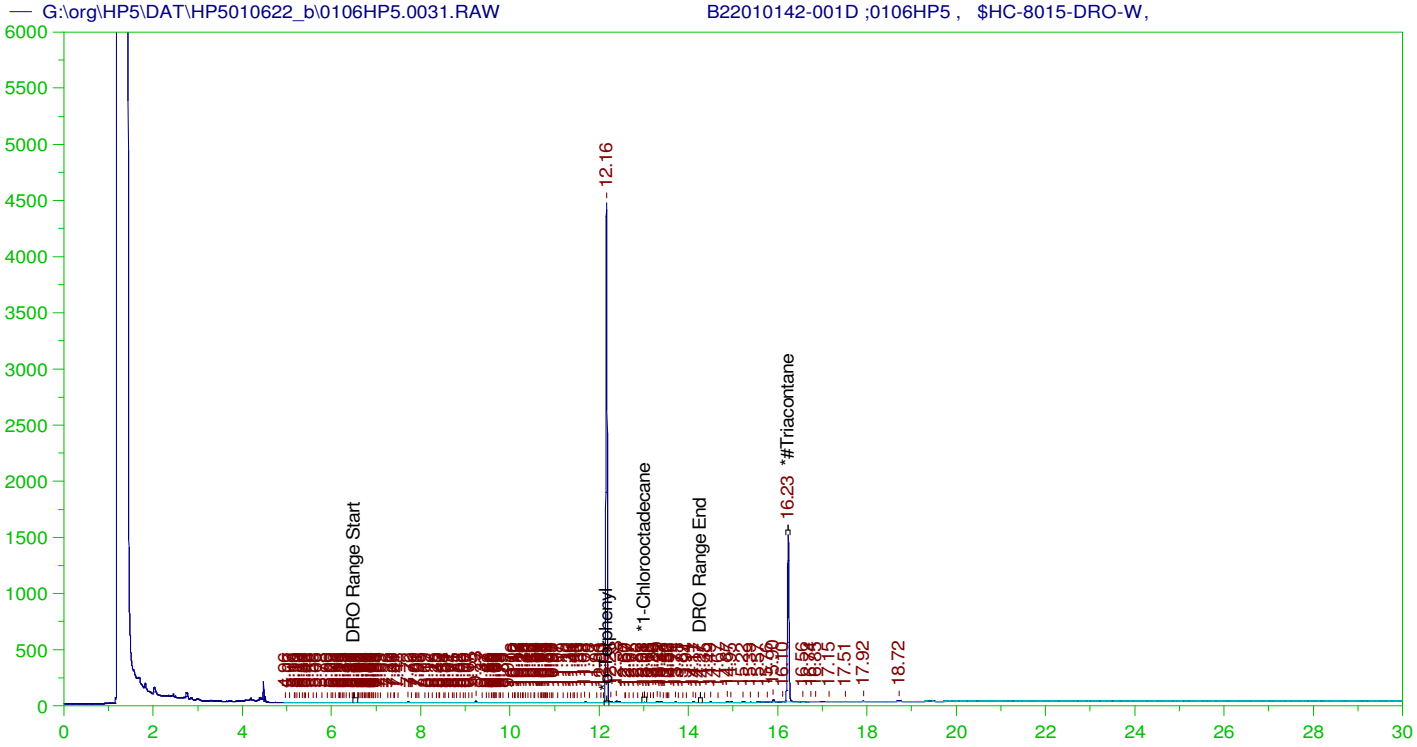
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.162	.192	.228	118.77	-
*1-Chlorooctadecane	13.014	.192	.19		-
*#Triacontane	16.229	.192	.132	68.67	-

DRO Area:533993.6 DRO Amount: 0.0163765
TEH Area:1703050 TEH Amount: 5.222908E-02

ERH2311 (RHMW12A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0031.RAW B22010142-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010142-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0031.RAW
Date & Time Acquired: 1/7/2022 5:27:56 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 970 Dilution: 1 S.A.: 1

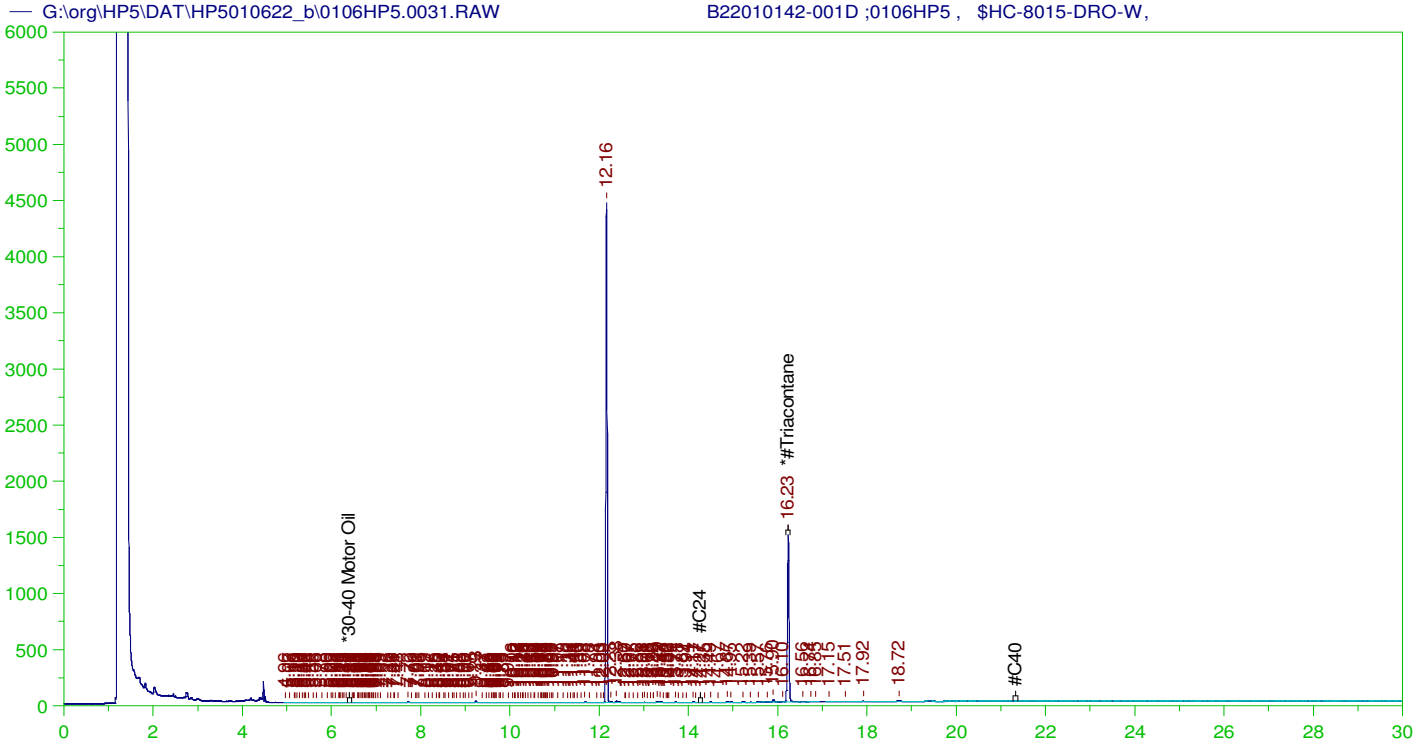
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.162	.206	.24	116.41	-
*1-Chlorooctadecane	13.015	.206	. .1		-
*#Triacontane	16.231	.206	.137	66.53	-

DRO Area:563225.8 DRO Amount: 1.851949E-02
TEH Area:875541.1 TEH Amount: 2.878876E-02

ERH2311 (RHMW12A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0031.RAW B22010142-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010142-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0031.RAW
Date & Time Acquired: 1/7/2022 5:27:56 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 970 Dilution: 1 S.A.: 1

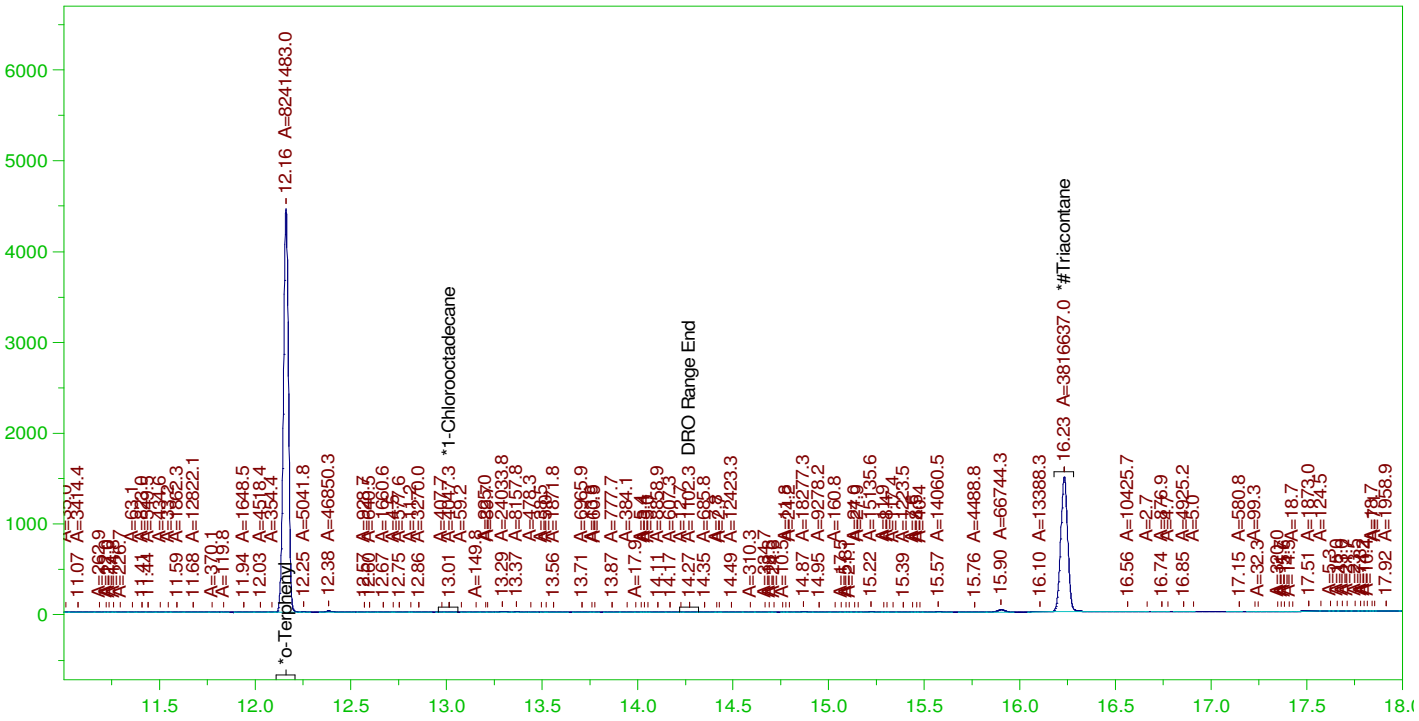
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.231	.515	.137	26.61	-

RRO Area:211636.8 RRO AMOUNT: 7.644144E-03

ERH2311 (RHMW12A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0031.RAW B22010142-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010142-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0031.RAW
Date & Time Acquired: 1/7/2022 5:27:56 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 970 Dilution: 1 S.A.: 1

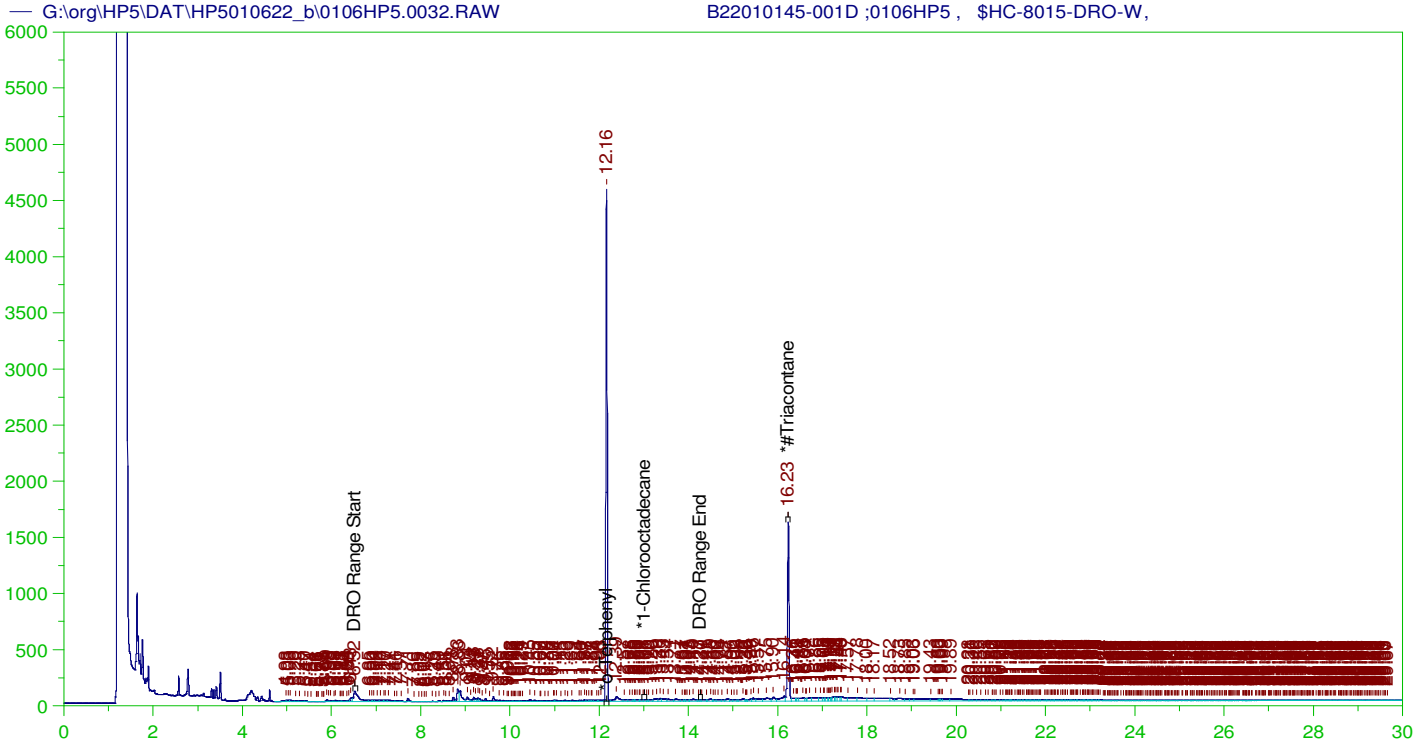
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.162	.206	.239	116.05	-
*1-Chlorooctadecane	13.015	.206	. .06		-
*#Triacontane	16.231	.206	.136	65.96	-

DRO Area:363803.1 DRO Amount: 1.196225E-02
TEH Area:1656256 TEH Amount: 5.445953E-02

ERH2313 (RHMW11 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0032.RAW B22010145-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010145-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0032.RAW
Date & Time Acquired: 1/7/2022 6:11:21 AM
Method File: G:\Org\HP5\Methods\D3_8015-010632-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

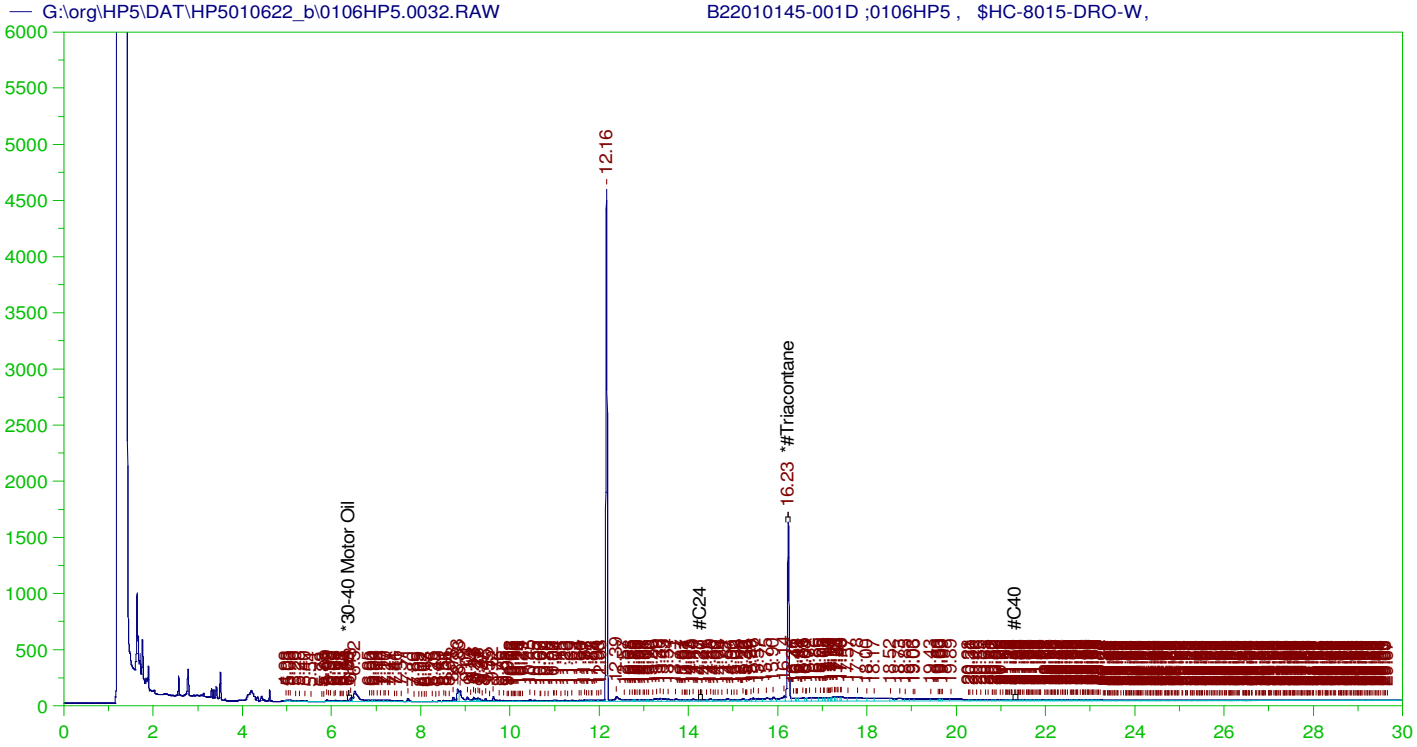
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.163	.2	.238	119.2	-
*1-Chlorooctadecane	13.01	.2	.002	.84	-
*#Triacontane	16.232	.2	.143	71.68	-

DRO Area:6393878 DRO Amount: 0.2039307
TEH Area:1.809424E+07 TEH Amount: 0.5771101

ERH2313 (RHMW11 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0032.RAW B22010145-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010145-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0032.RAW
Date & Time Acquired: 1/7/2022 6:11:21 AM
Method File: G:\Org\HP5\Methods\D3_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

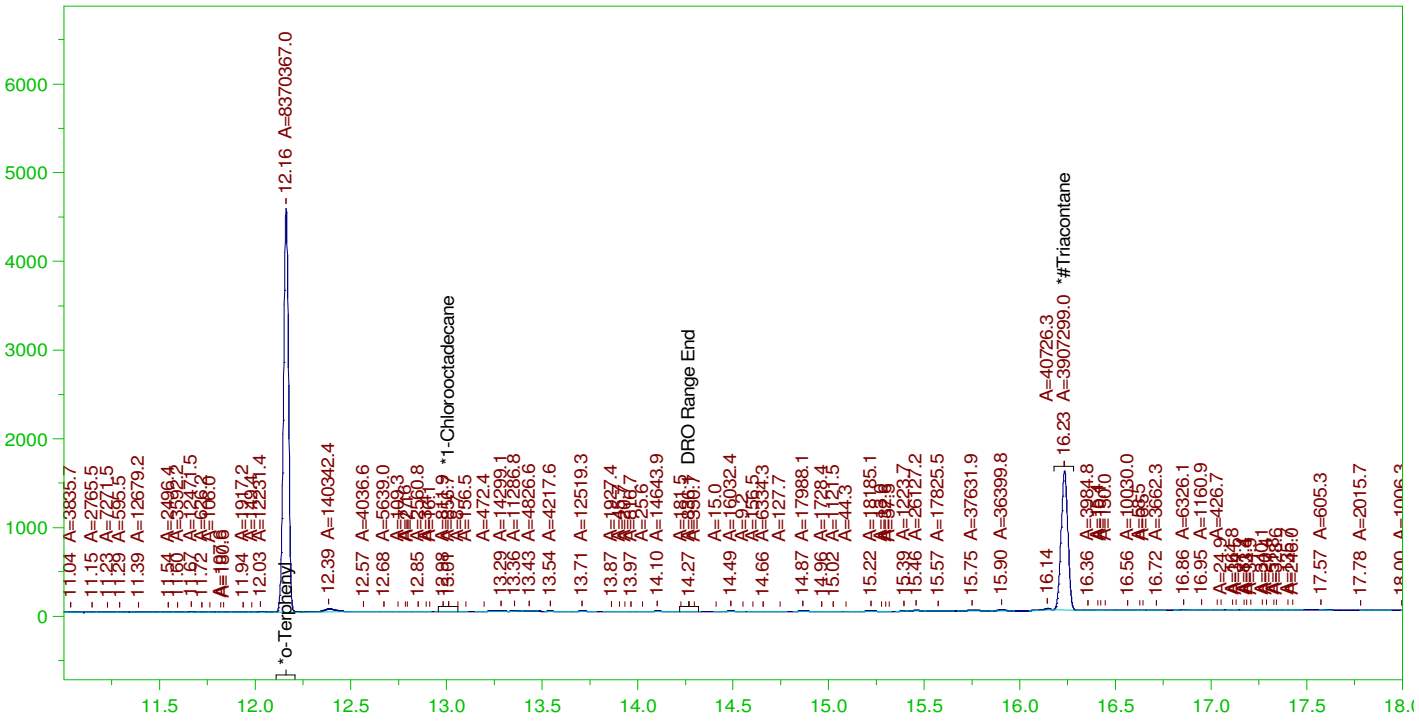
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.232	.5	.143	28.67	-

RRO Area:8704004 RRO AMOUNT: 0.3049498

ERH2313 (RHMW11 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0032.RAW B22010145-001D ;0106HP5 , $HC-8015-DRO-W,



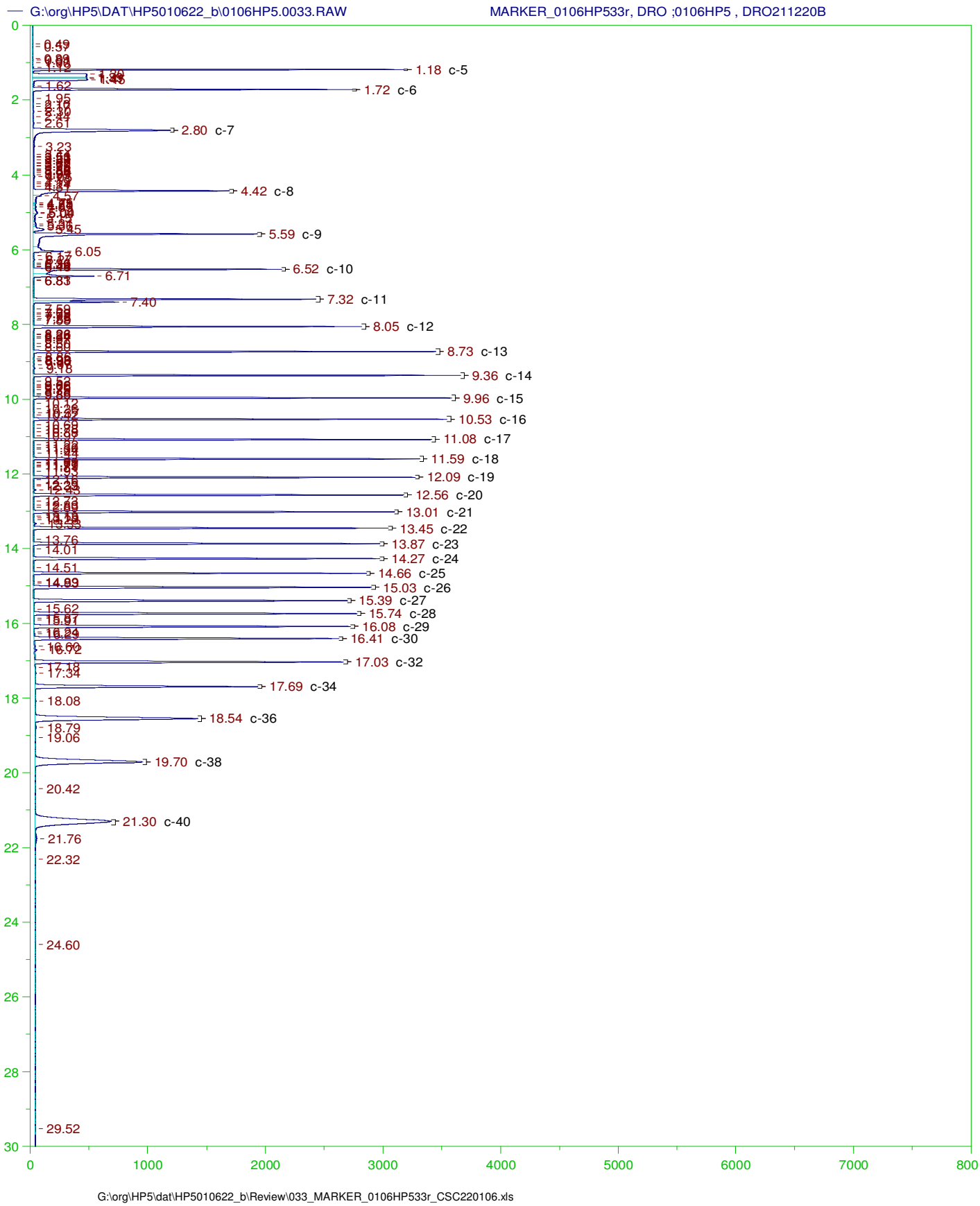
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010145-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0032.RAW
Date & Time Acquired: 1/7/2022 6:11:21 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.163	.2	.236	117.86	-
*1-Chlorooctadecane	13.01	.2	. .01		-
*#Triacontane	16.232	.2	.135	67.53	-

DRO Area:3469748 DRO Amount: 0.1106665
TEH Area:6721251 TEH Amount: 0.2143721


G:\org\HP5\DAT\HP5010622_b\0106HP5.0033.RAW
MARKER_0106HP533r, DRO ;0106HP5 , DRO211220B
1.18 c-5
1.72 c-6
2.80 c-7
4.42 c-8
5.59 c-9
6.52 c-10
7.32 c-11
8.05 c-12
8.73 c-13
9.36 c-14
9.96 c-15
10.53 c-16
11.08 c-17
11.59 c-18
12.09 c-19
12.56 c-20
13.01 c-21
13.45 c-22
13.87 c-23
14.27 c-24
14.66 c-25
15.03 c-26
15.39 c-27
15.74 c-28
16.08 c-29
16.41 c-30
17.03 c-32
17.69 c-34
18.54 c-36
19.70 c-38
21.30 c-40
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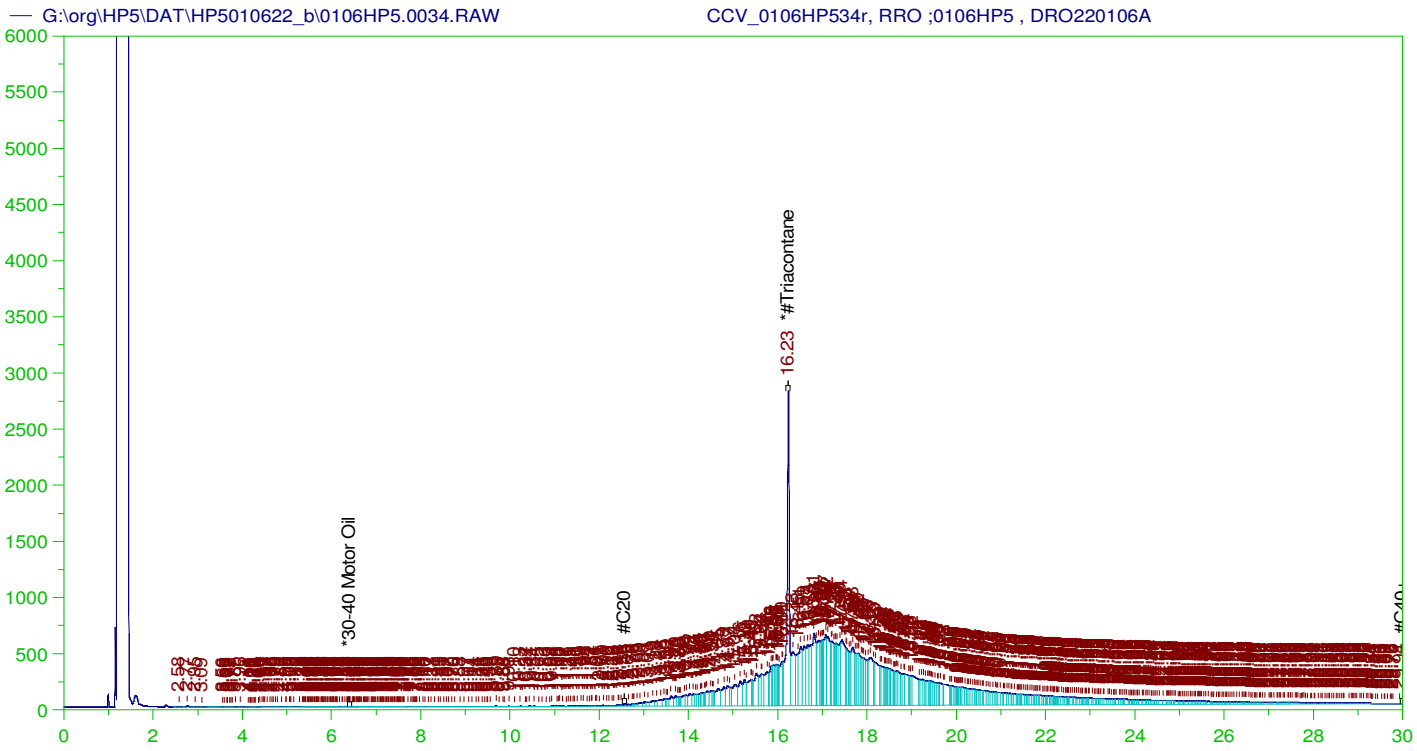


RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP534r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0034.RAW
Date & Time Acquired: 1/7/2022 7:37:51 AM
Method File: G:\Org\HP5\Methods\DC_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.235	500.	352.686	70.54	-

~~RRO~~ TEH (Oil Range) Area:1.428132E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 5003.544

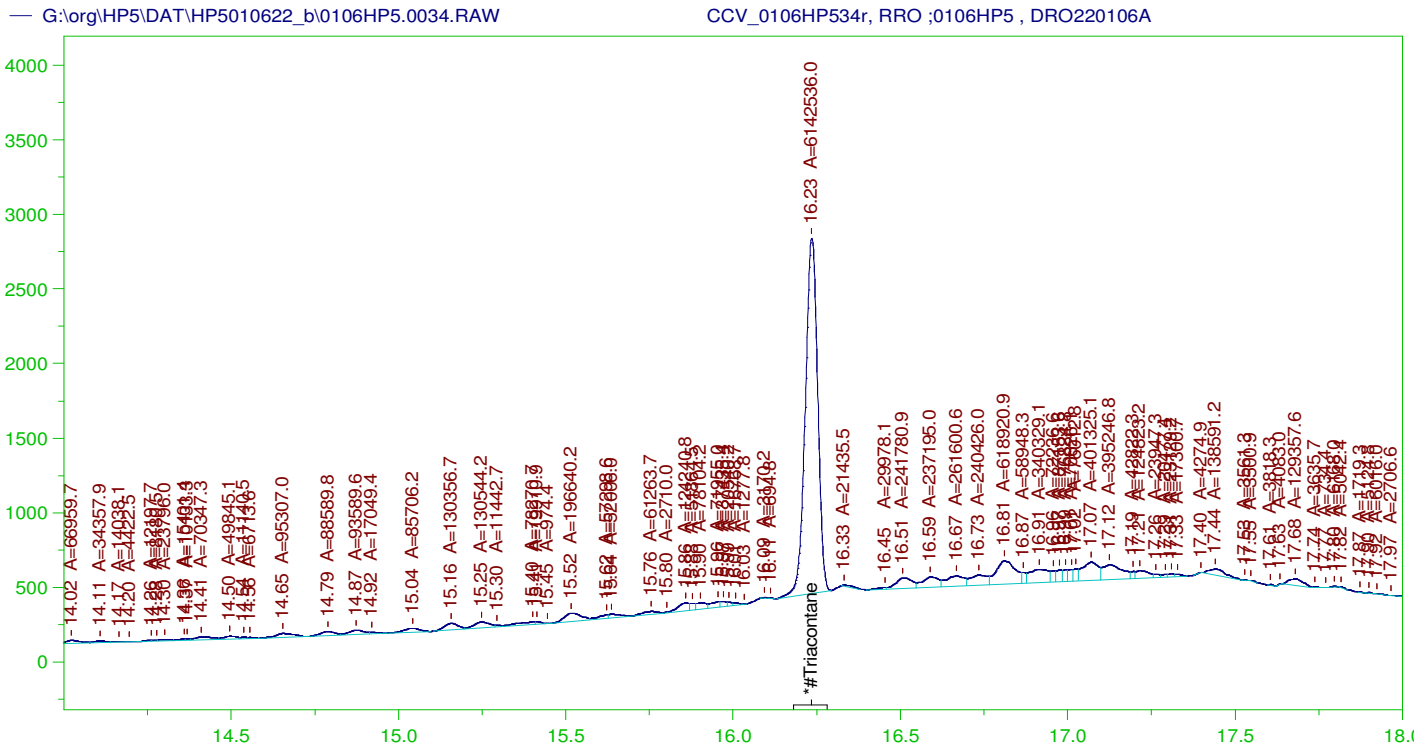
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0034.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.041	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.235	200.	352.686	176.34	75-125

AMN 01/31/2022

G:\org\HP5\dat\HP5010622_b\Review\034_CCV_0106HP534r_DC_ORO-AN-L%.xls



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP534r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0034.RAW
Date & Time Acquired: 1/7/2022 7:37:51 AM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

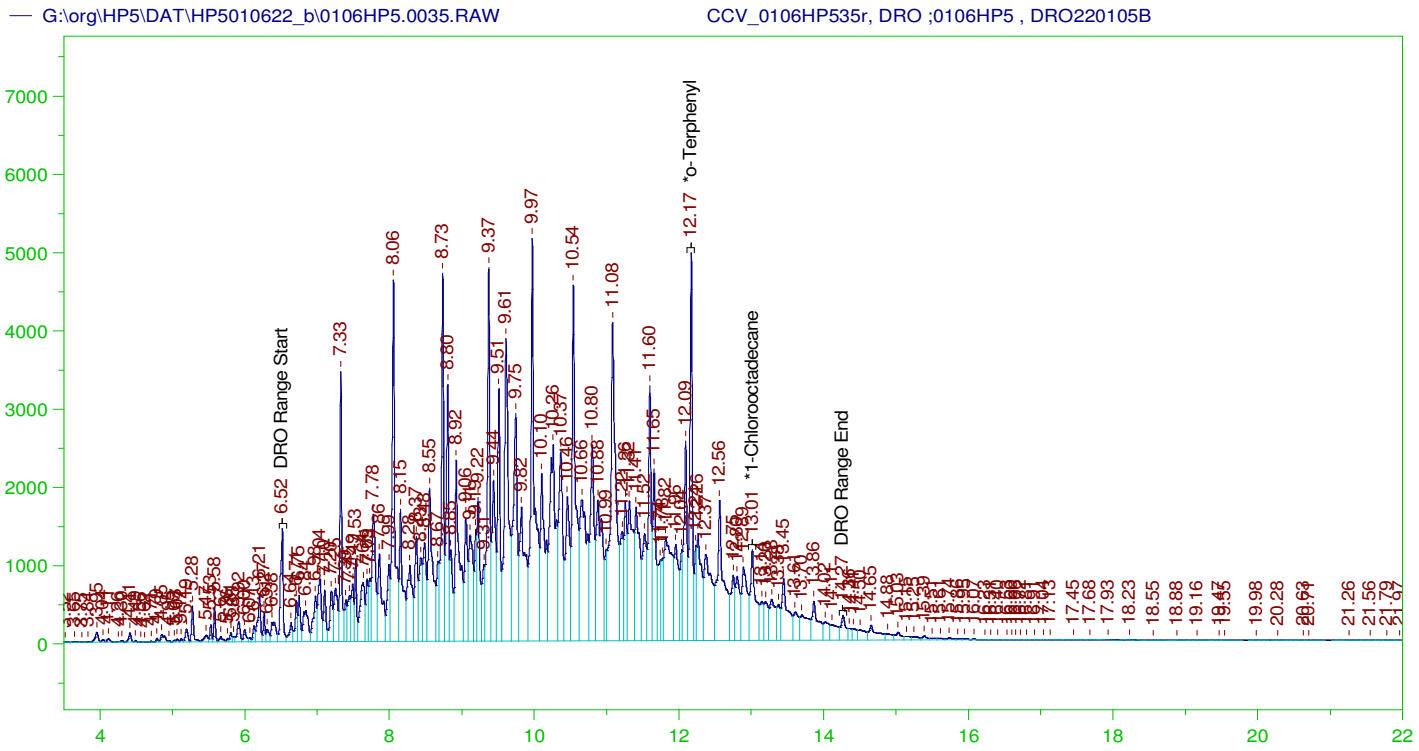
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.235	500.	212.323	42.46	-

RRO Area:6466272 RRO AMOUNT: 226.5496

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0034.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.041	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.235	200.	212.323	106.16	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP535r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0035.RAW
Date & Time Acquired: 1/7/2022 8:20:50 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

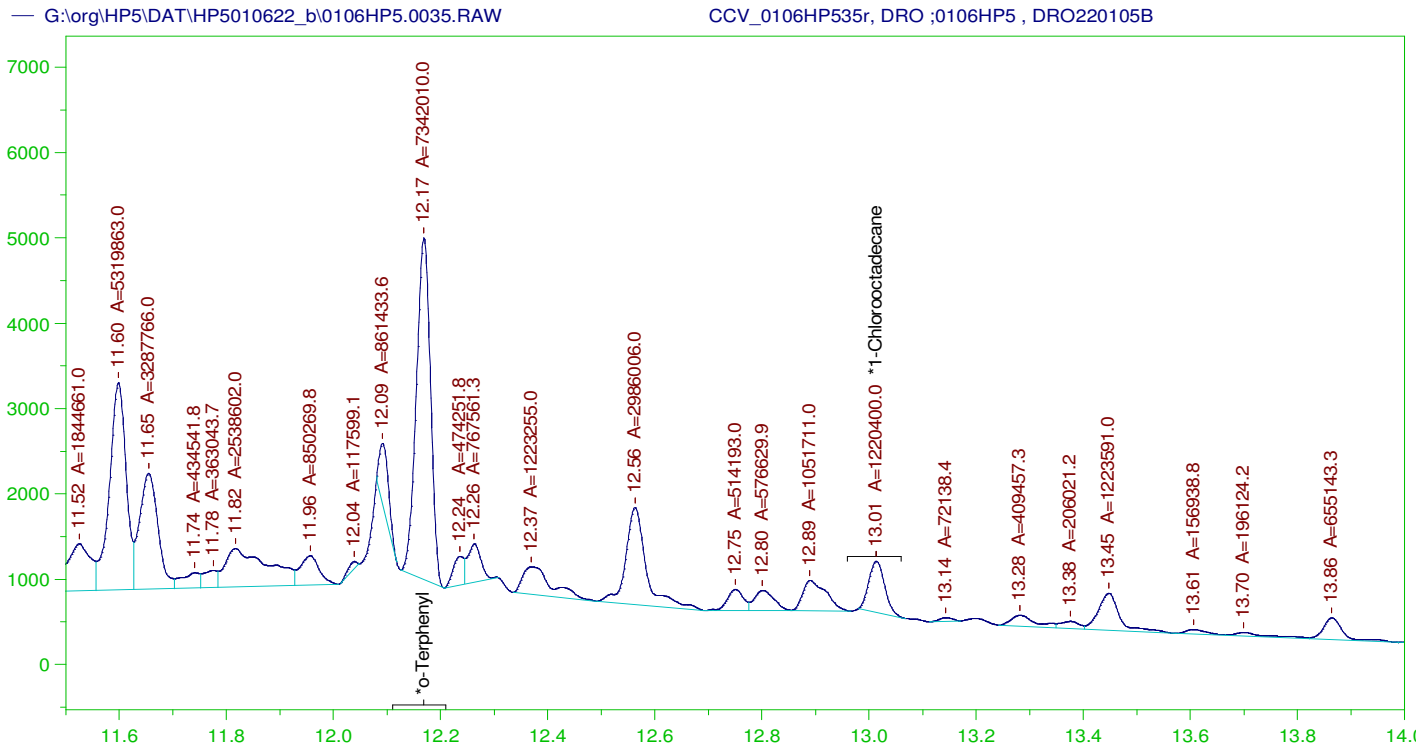
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.169	200.	337.684	168.84	-
*1-Chlorooctadecane	13.013	200.	167.562	83.78	-

DRO Area:4.889194E+08 DRO Amount: 15593.93
TEH Area:5.068763E+08 TEH Amount: 16166.66

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0035.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	16166.66	107.78	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.169	200.	337.684	168.84	85-115
*1-Chlorooctadecane	13.013	200.	167.562	83.78	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP535r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0035.RAW
Date & Time Acquired: 1/7/2022 8:20:50 AM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

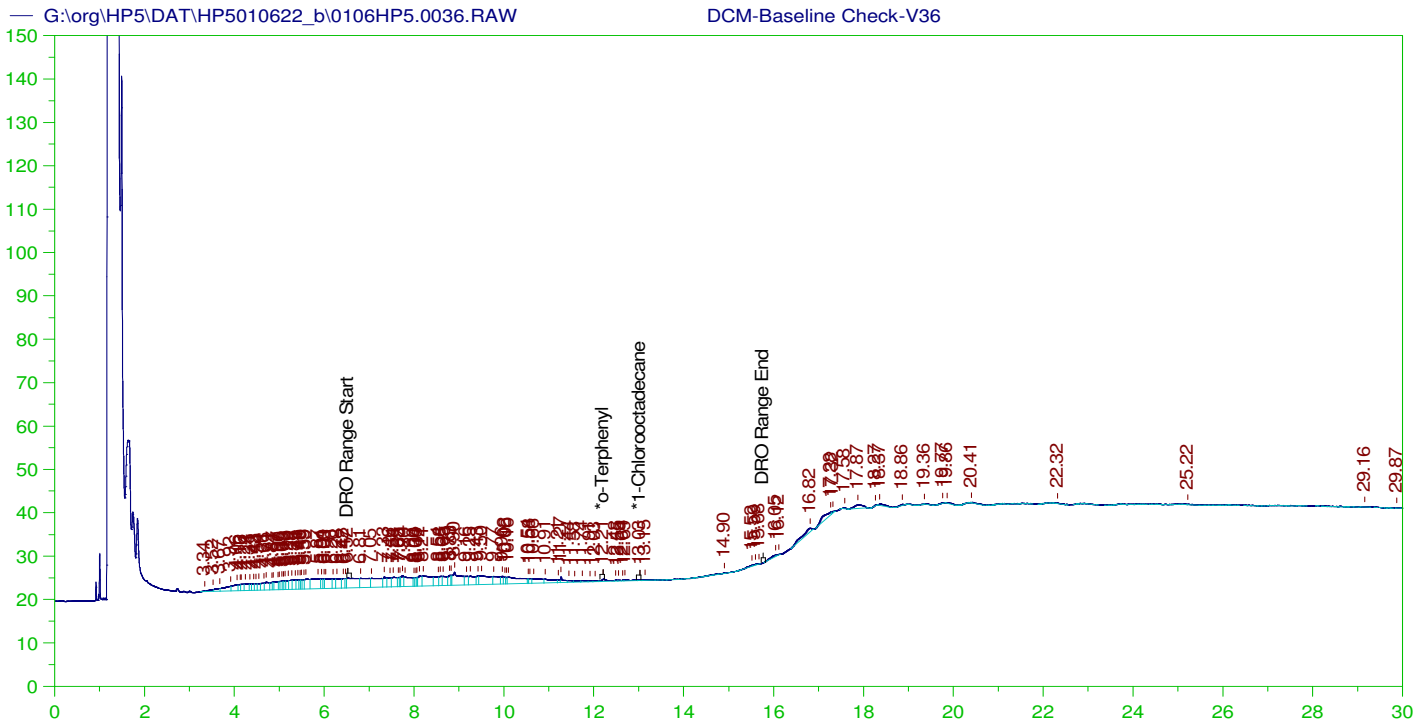
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.169	200.	206.764	103.38	-
*1-Chlorooctadecane	13.013	200.	34.369	17.18	-

DRO Area:2.714112E+08 DRO Amount: 8656.574
TEH Area:2.822628E+08 TEH Amount: 9002.681

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0035.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	9002.68	60.02	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.169	200.	206.764	103.38	85-115
*1-Chlorooctadecane	13.013	200.	34.369	17.18	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V36
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0036.RAW
Date & Time Acquired: 1/7/2022 9:19:37 AM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

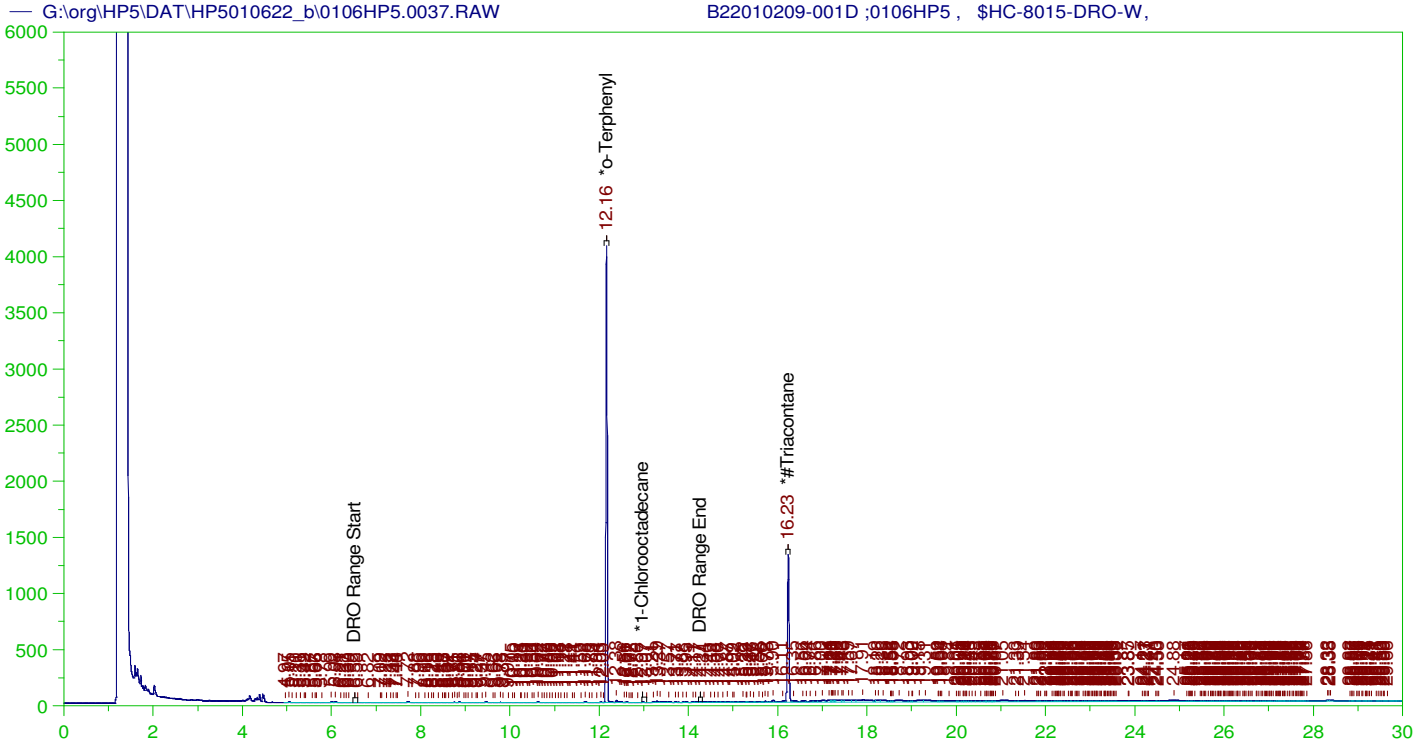
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.207	200.	.156	.08	-
*1-Chlorooctadecane	13.027	200.	.02	.01	-

DRO Area:551078.6 DRO Amount: 17.57648
TEH Area:946998.7 TEH Amount: 30.20422

ERH2317 (RHMW09) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0037.RAW B22010209-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010209-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0037.RAW
Date & Time Acquired: 1/7/2022 10:02:40 AM
Method File: G:\Org\HP5\Methods\D3_8015-010637-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

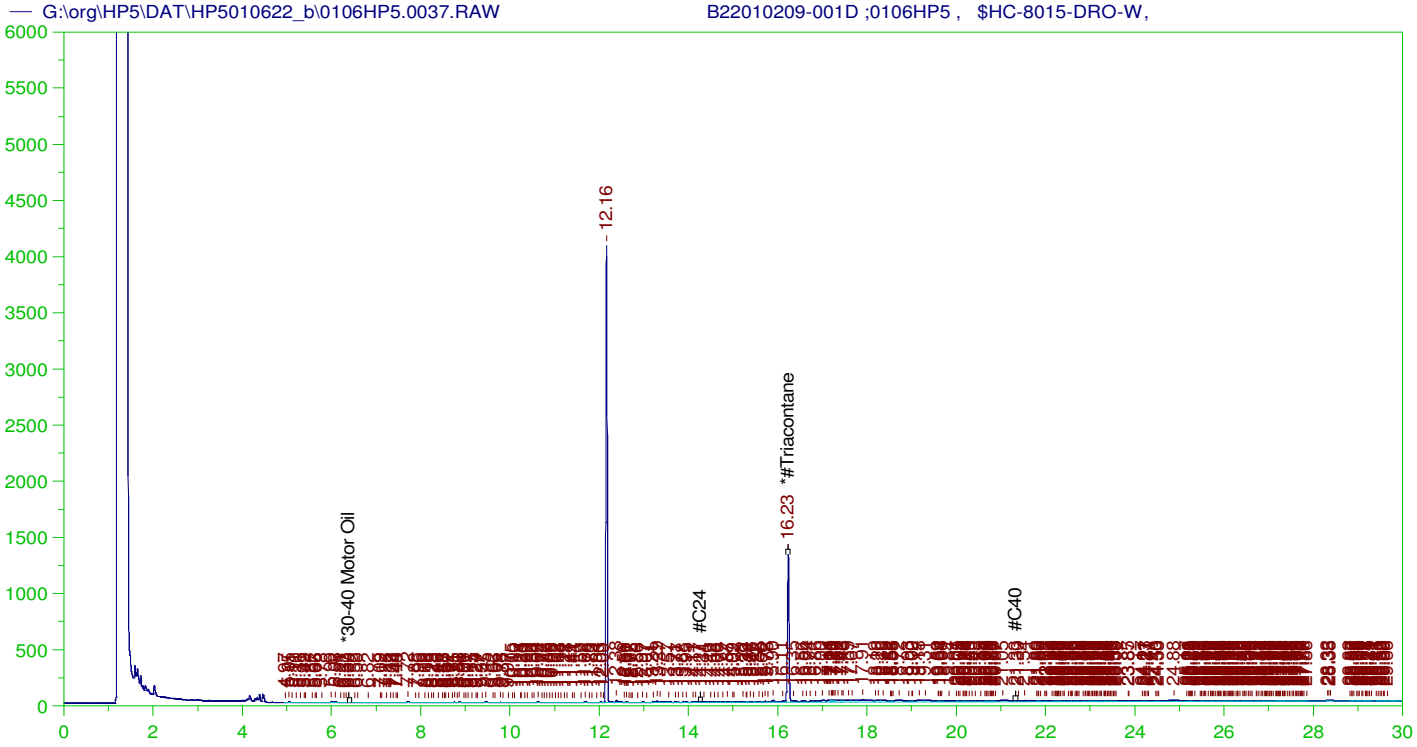
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.163	.192	.206	107.13	-
*1-Chlorooctadecane	12.974	.192	.18		-
*#Triacontane	16.232	.192	.115	59.69	-

DRO Area:582541.8 DRO Amount: 1.786537E-02
TEH Area:7499497 TEH Amount: 0.2299943

ERH2317 (RHMW09) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0037.RAW B22010209-001D ;0106HP5 , $HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010209-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0037.RAW
Date & Time Acquired: 1/7/2022 10:02:40 AM
Method File: G:\Org\HP5\Methods\D3_OROS-010637-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

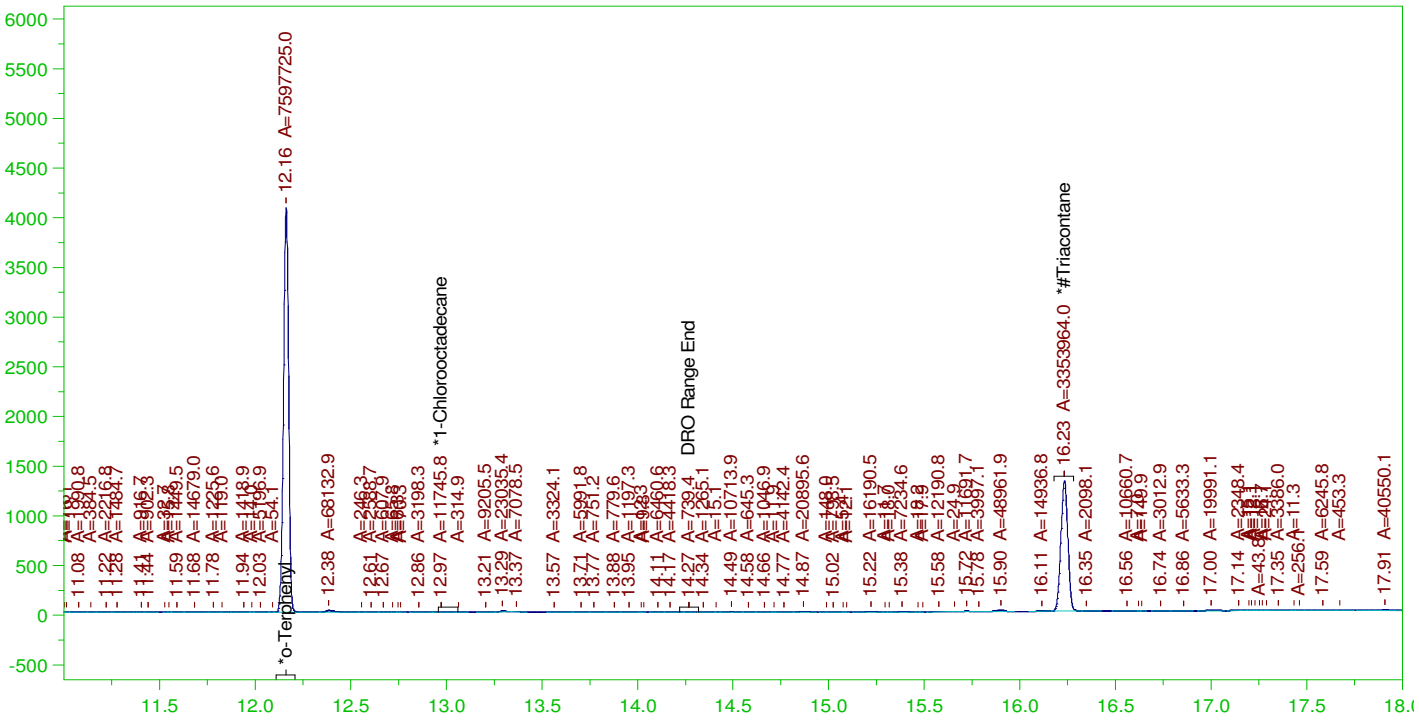
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.232	.481	.115	23.87	-

RRO Area:4271739 RRO AMOUNT: 0.1439066

ERH2317 (RHMW09) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0037.RAW B22010209-001D ;0106HP5 , $HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010209-001D ;0106HP5 , $HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0037.RAW
Date & Time Acquired: 1/7/2022 10:02:40 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

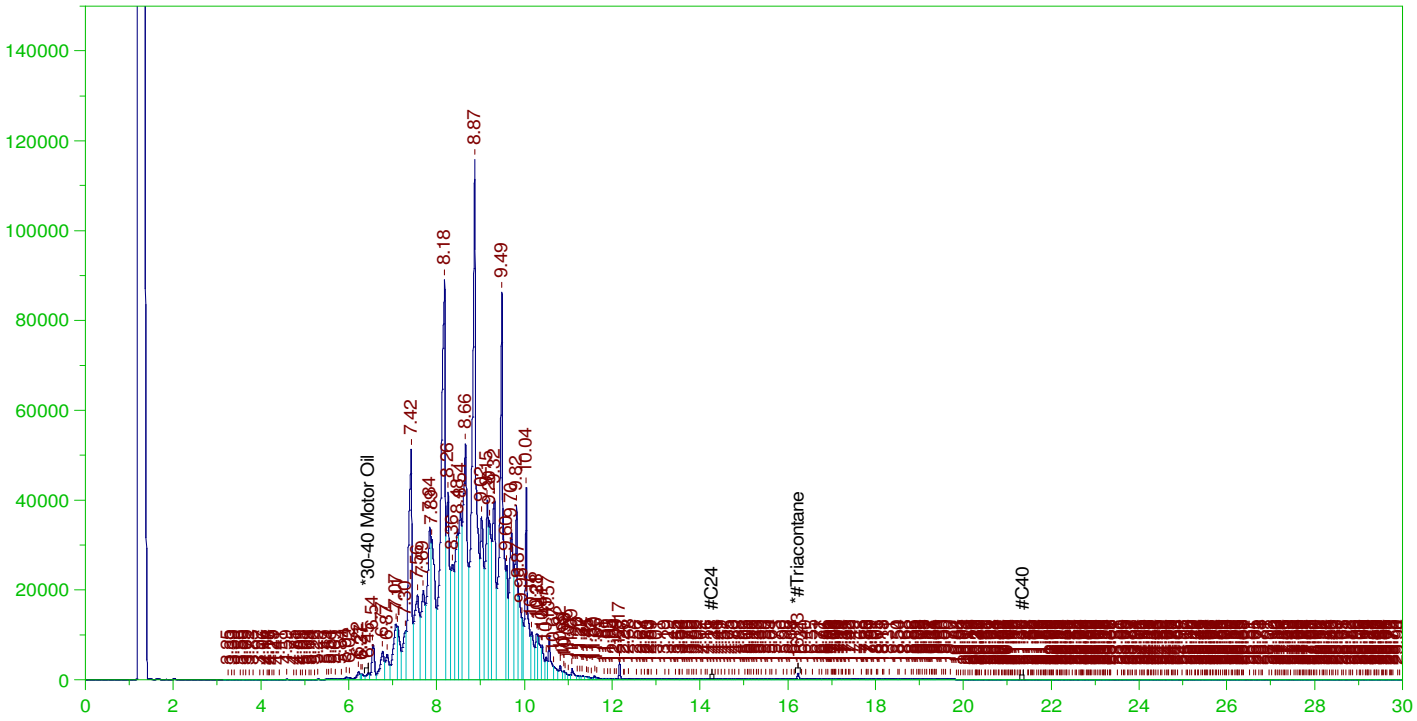
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.163	.192	.206	106.98	-
*1-Chlorooctadecane	12.974	.192	. .17		-
*#Triacontane	16.232	.192	.111	57.97	-

DRO Area:389687.4 DRO Amount: 1.195092E-02
TEH Area:1895445 TEH Amount: 5.812942E-02

ERH2336 (Sump Adit3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0038.RAW B22010211-001D ;0106HP5 , $HC-8015-DRO-W, Oil range



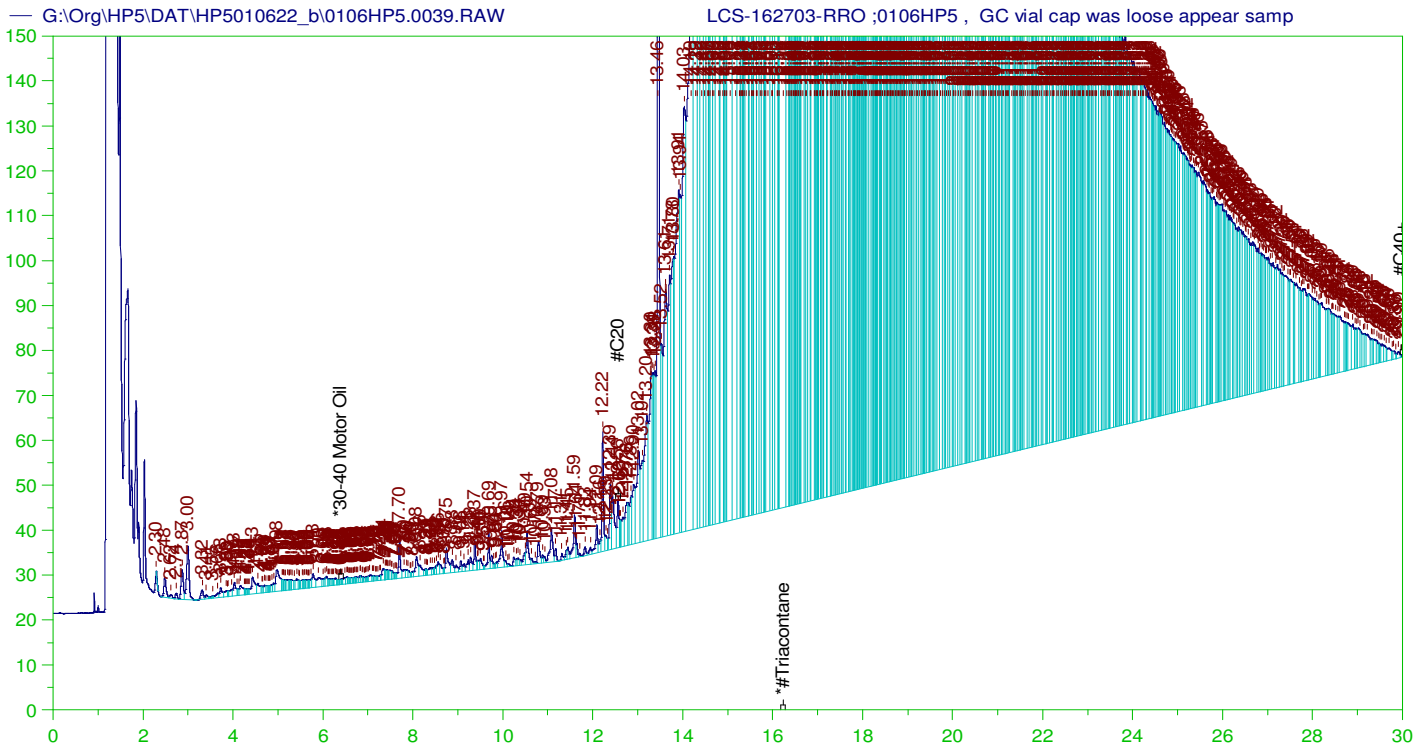
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010211-001D ;0106HP5 , $HC-8015-DRO-W, Oil range
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0038.RAW
Date & Time Acquired: 1/7/2022 10:45:59 AM
Method File: G:\Org\HP5\Methods\D3_OROS-010638-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-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: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.232	.485	.134	27.63	-

RRO Area:1.880398E+07 RRO AMOUNT: 0.6396197



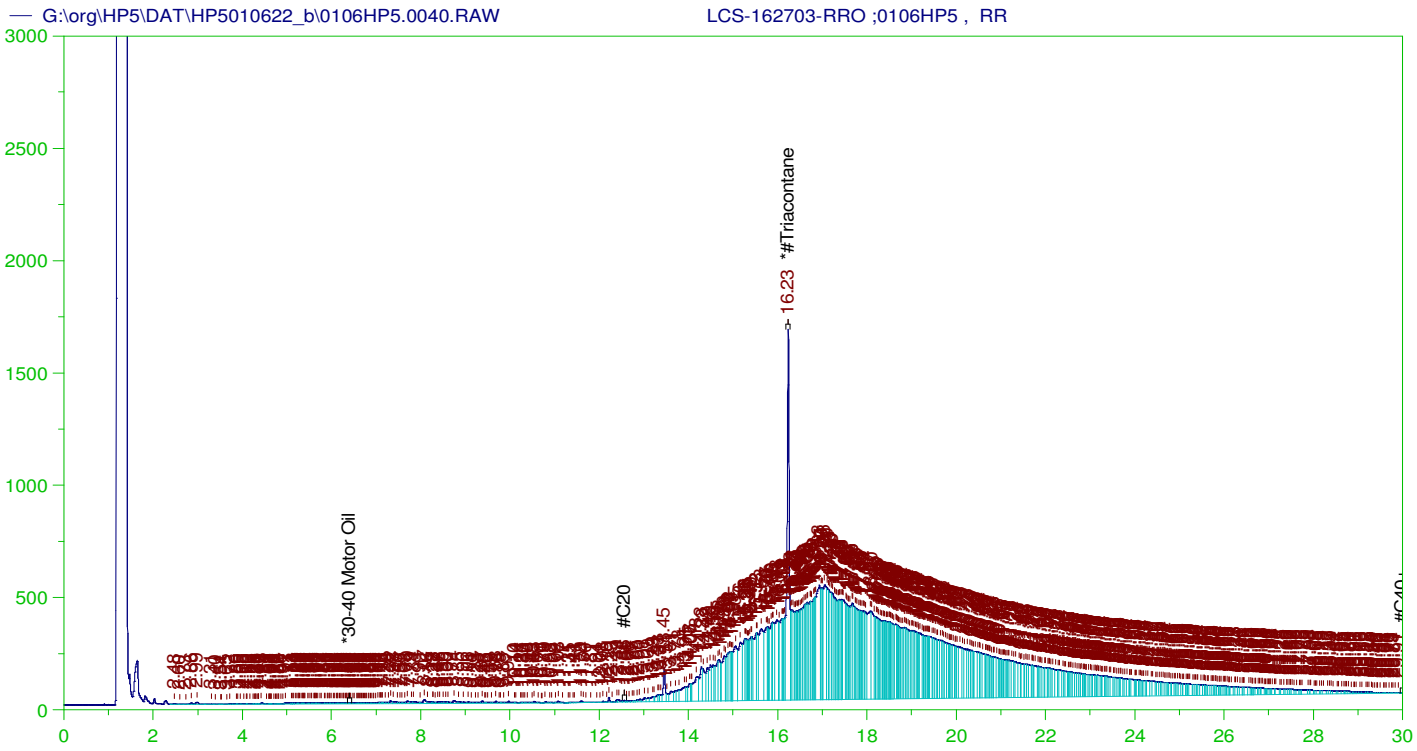
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCS-162703-RRO ;0106HP5 , GC vial cap was loose appear samp
Raw File: G:\Org\HP5\DAT\HP5010622_b\0106HP5.0039.RAW
Date & Time Acquired: 1/7/2022 11:29:11 AM
Method File: G:\Org\HP5\Methods\D3_ORO-AN-L0.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.236	.5	.27	54.07	-

RRO Area:1.782779E+08 RRO AMOUNT: 6.24607



RESIDUAL RANGE ORGANICS CHROMATOGRAM

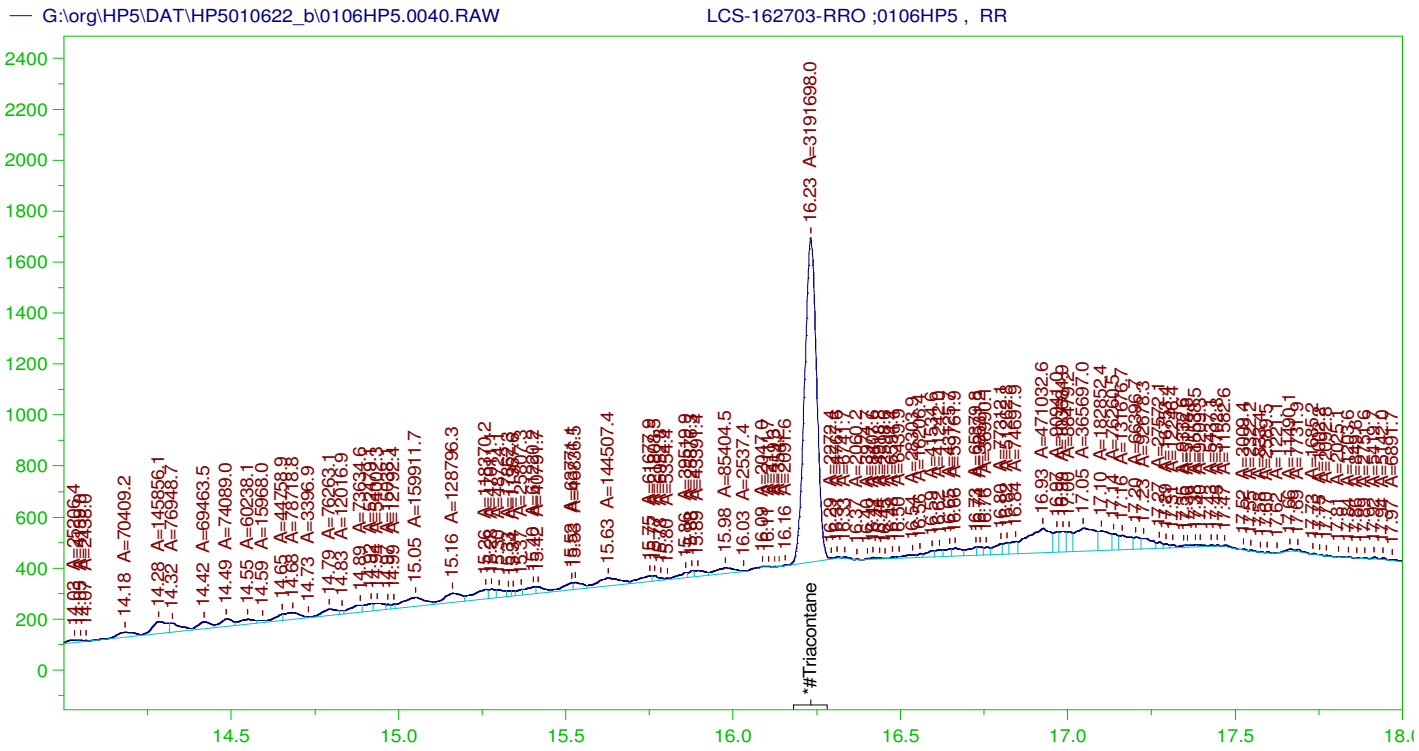
Sample Name: LCS-162703-RRO ;0106HP5 , RR
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0040.RAW
Date & Time Acquired: 1/7/2022 12:16:06 PM
Method File: G:\Org\HP5\Methods\D3_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.232	.5	.209	41.77	-

~~RRO~~ TEH (Oil Range) Area:1.573859E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 5.514107

AMN 01/31/2022



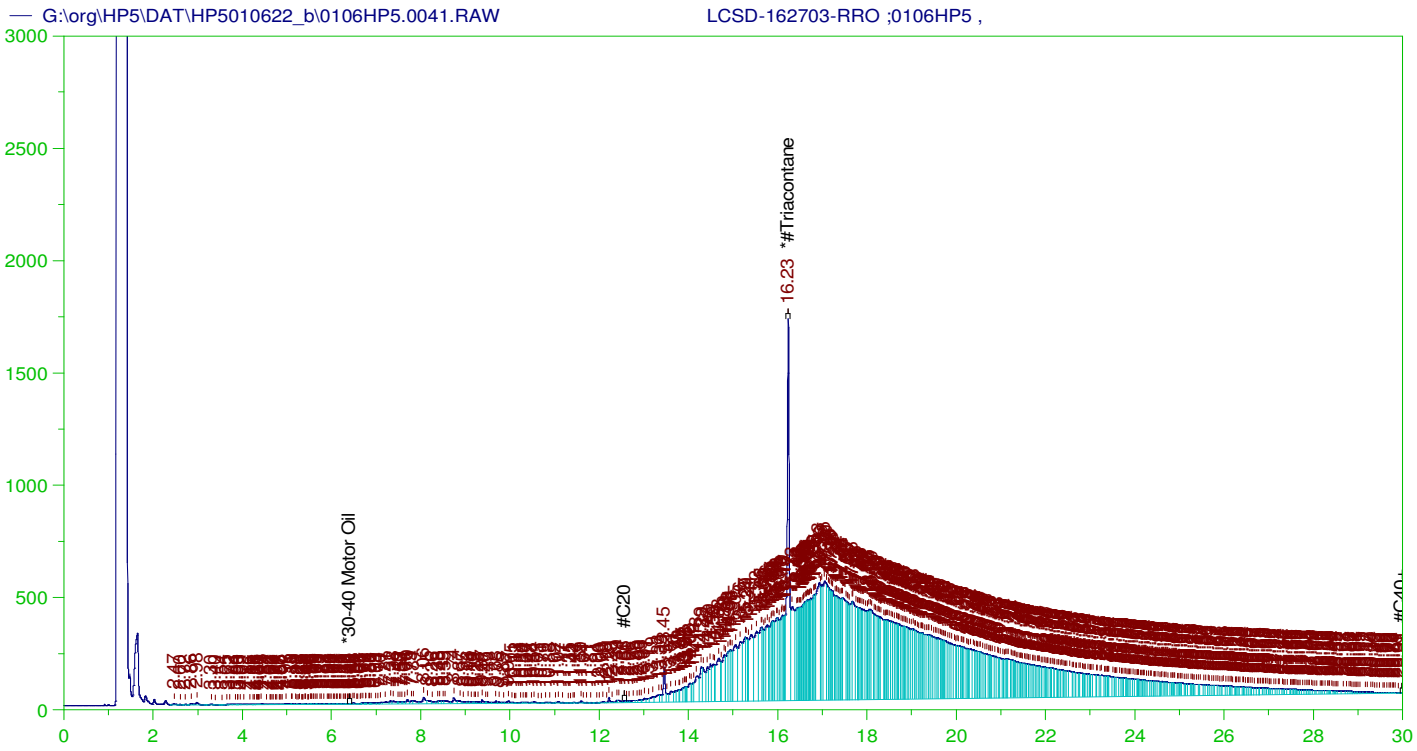
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCS-162703-RRO ;0106HP5 , RR
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0040.RAW
Date & Time Acquired: 1/7/2022 12:16:06 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	-
*#Triacontane	16.232	.5	.11	22.06	

RRO Area:5441502 RRO AMOUNT: 0.1906462



RESIDUAL RANGE ORGANICS CHROMATOGRAM

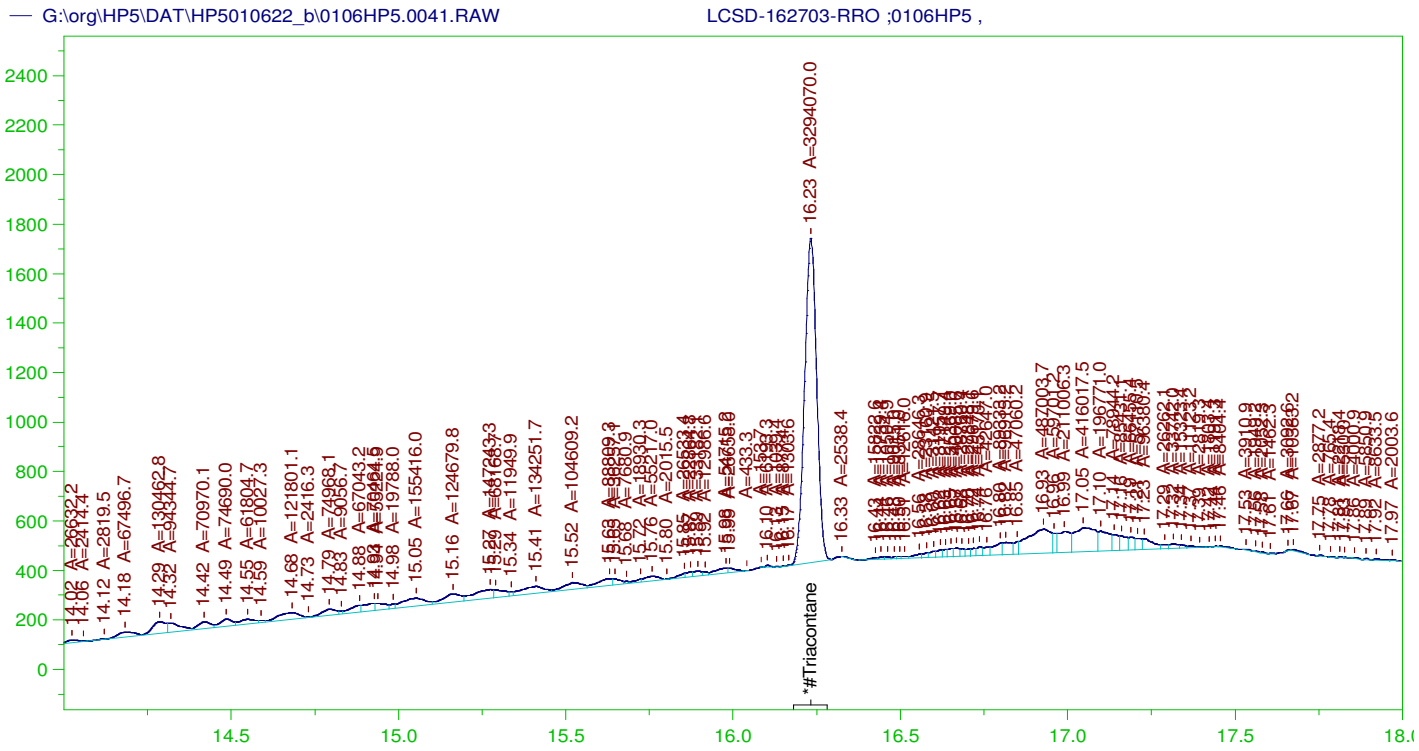
Sample Name: LCSD-162703-RRO ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0041.RAW
Date & Time Acquired: 1/7/2022 1:01:28 PM
Method File: G:\Org\HP5\Methods\D3_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.232	.5	.213	42.53	-

~~RRO~~ TEH (Oil Range) Area:1.616392E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 5.663123

AMN 01/31/2022



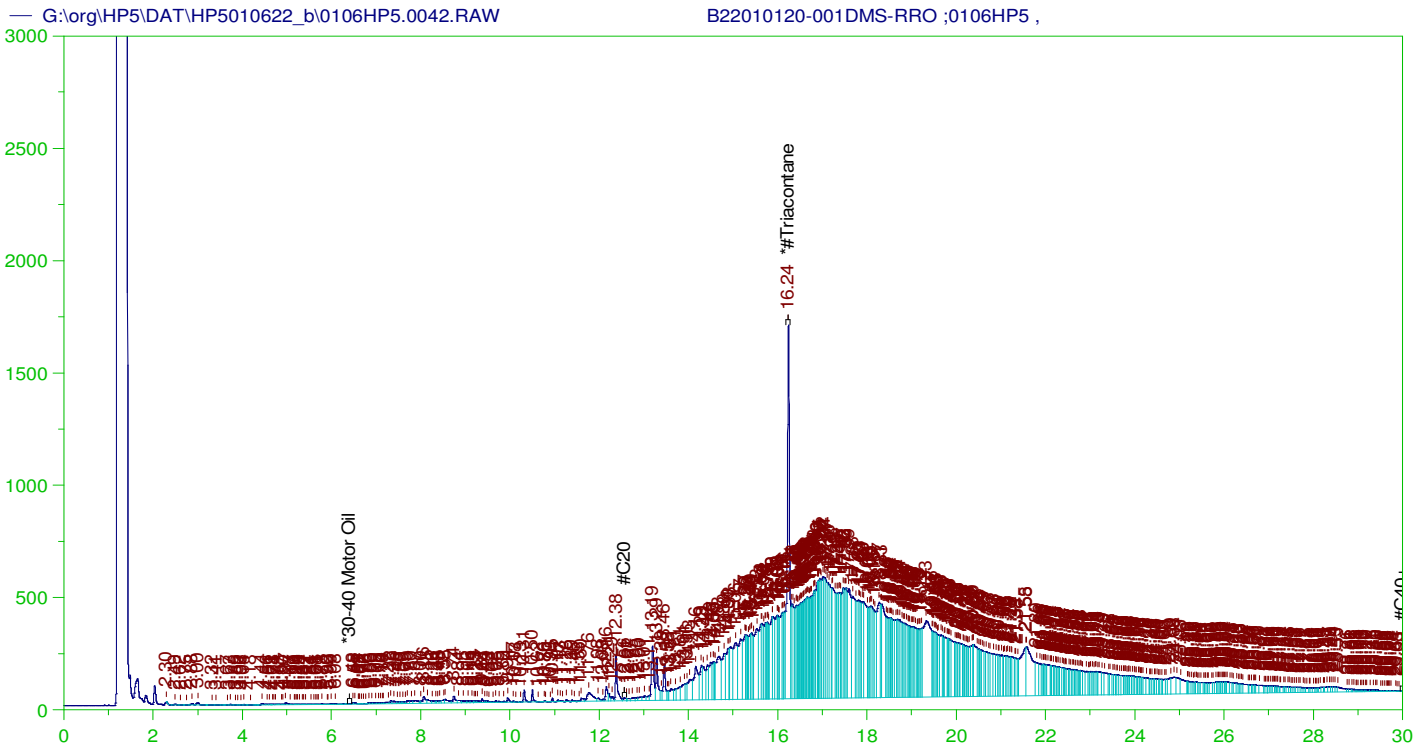
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCSD-162703-RRO ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0041.RAW
Date & Time Acquired: 1/7/2022 1:01:28 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.232	.5	.114	22.77	-

RRO Area:5521903 RRO AMOUNT: 0.1934631



RESIDUAL RANGE ORGANICS CHROMATOGRAM

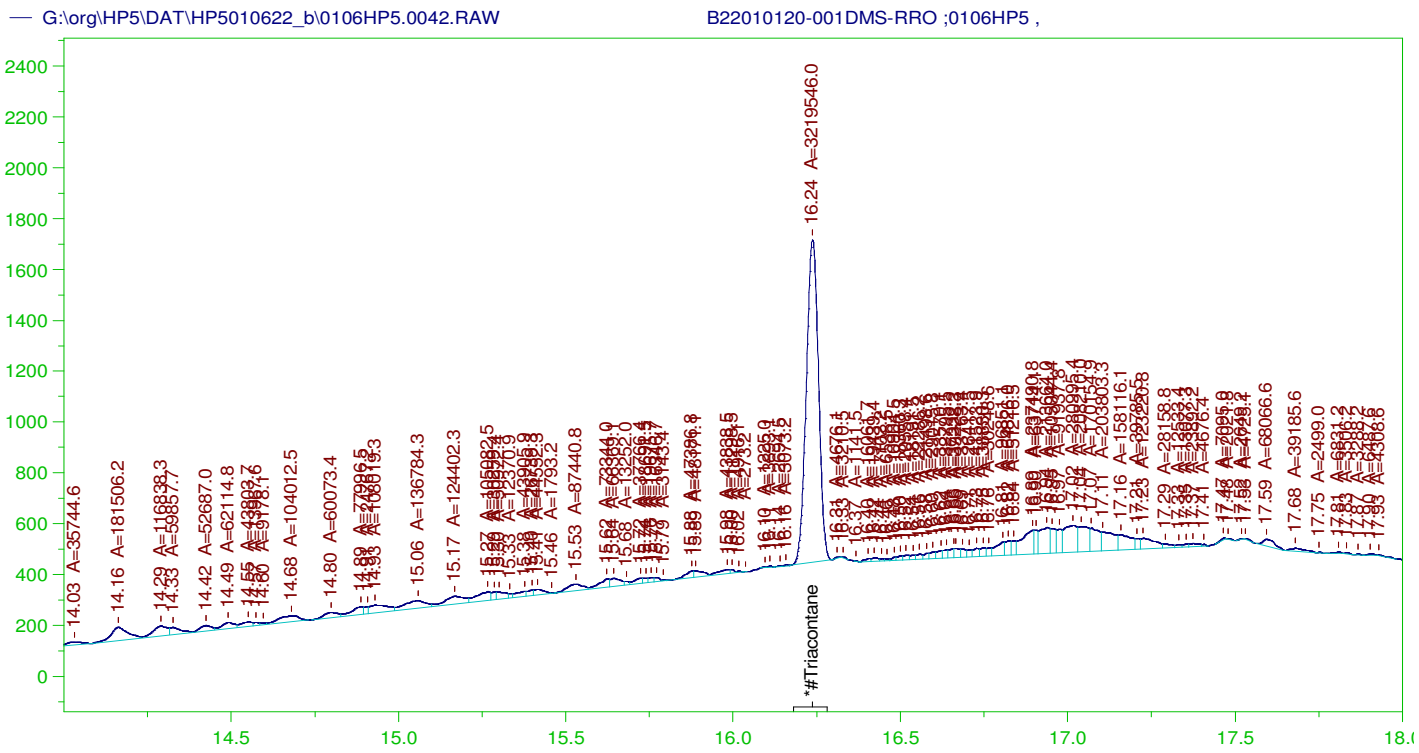
Sample Name: B22010120-001DMS-RRO ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0042.RAW
Date & Time Acquired: 1/7/2022 1:44:11 PM
Method File: G:\Org\HP5\Methods\D3_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.237	.485	.209	43.07	-

~~RRO~~ TEH (Oil Range) Area:1.702661E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 5.791624

AMN 01/31/2022



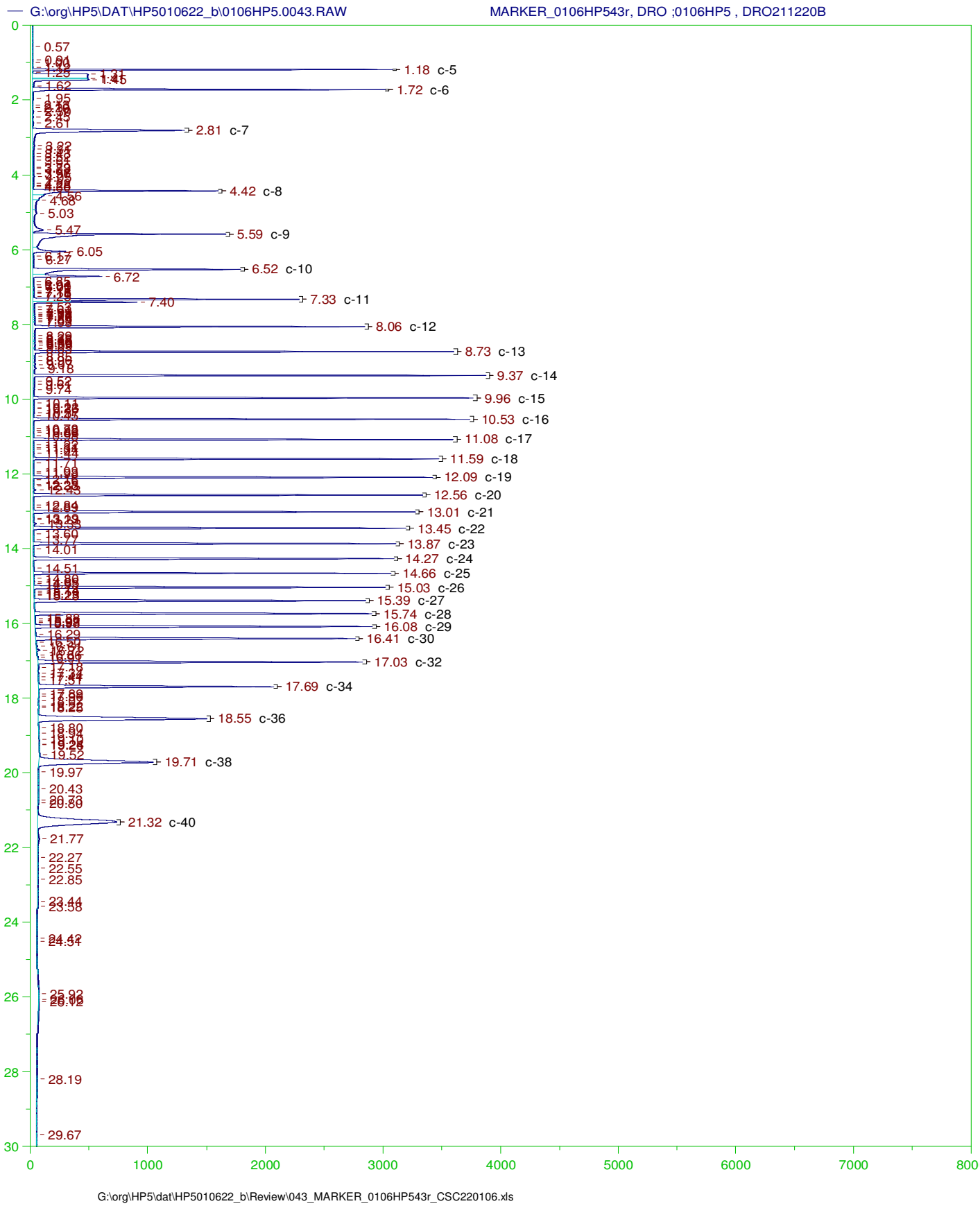
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010120-001DMS-RRO ;0106HP5 ,
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0042.RAW
Date & Time Acquired: 1/7/2022 1:44:11 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.237	.485	.108	22.26	-

RRO Area:7172832 RRO AMOUNT: 0.2439848


G:\org\HP5\DAT\HP5010622_b\0106HP5.0043.RAW
MARKER_0106HP543r, DRO ;0106HP5 , DRO211220B
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1.72 c-6
2.81 c-7
4.42 c-8
5.03
5.47
5.59 c-9
6.05
6.52 c-10
6.72
7.33 c-11
7.40
8.06 c-12
8.73 c-13
9.37 c-14
9.96 c-15
10.53 c-16
11.08 c-17
11.59 c-18
12.09 c-19
12.56 c-20
13.01 c-21
13.45 c-22
13.87 c-23
14.01
14.27 c-24
14.51
14.66 c-25
15.03 c-26
15.39 c-27
15.74 c-28
16.08 c-29
16.41 c-30
17.03 c-32
17.69 c-34
18.55 c-36
19.52
19.71 c-38
19.97
20.43
21.32 c-40
21.77
22.27
22.55
22.85
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24.54
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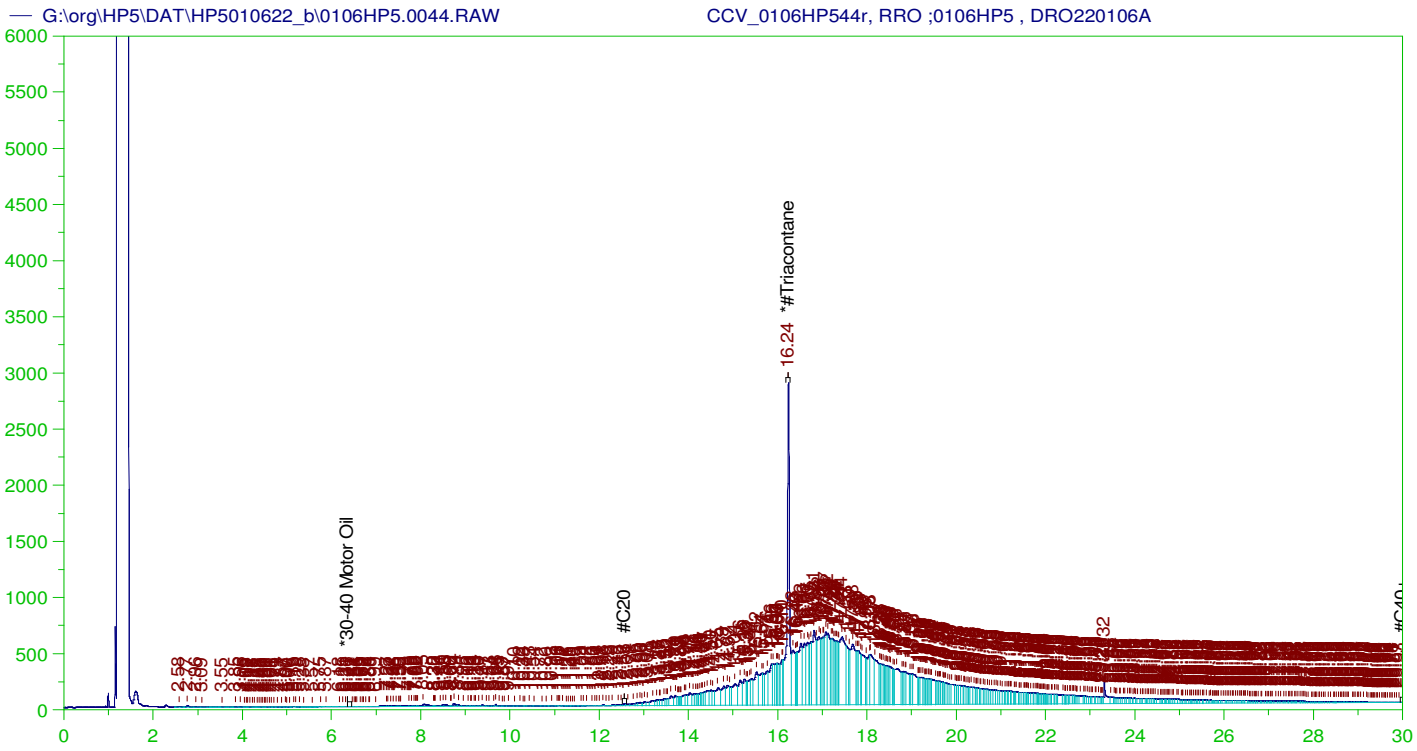


RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP544r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0044.RAW
Date & Time Acquired: 1/7/2022 3:09:41 PM
Method File: G:\Org\HP5\Methods\DC_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.237	500.	367.796	73.56	-

~~RRO~~ TEH (Oil Range) Area:1.495368E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 5239.109

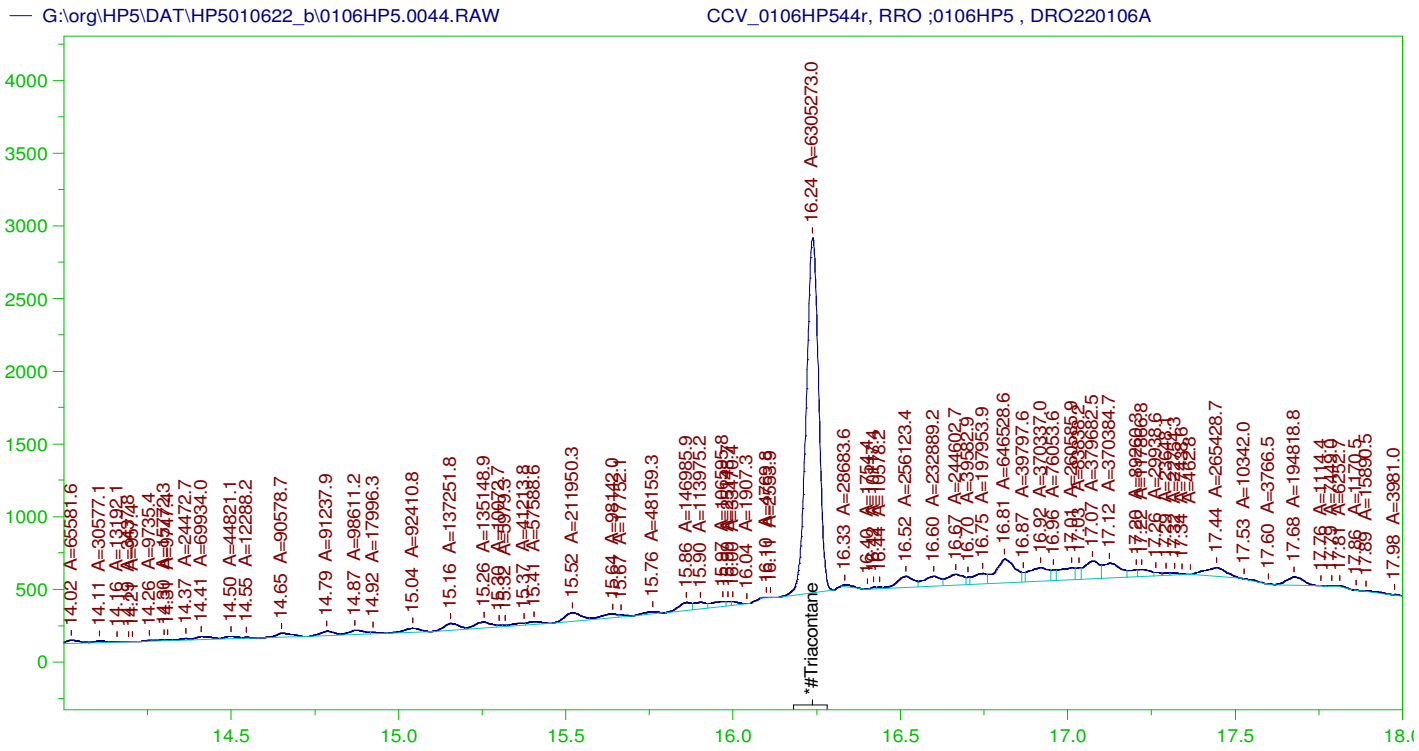
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0044.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.071	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.237	200.	367.796	183.9	75-125

AMN 01/31/2022

G:\org\HP5\dat\HP5010622_b\Review\044_CCV_0106HP544r_DC_ORO-AN-L%.xls



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP544r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0044.RAW
Date & Time Acquired: 1/7/2022 3:09:41 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

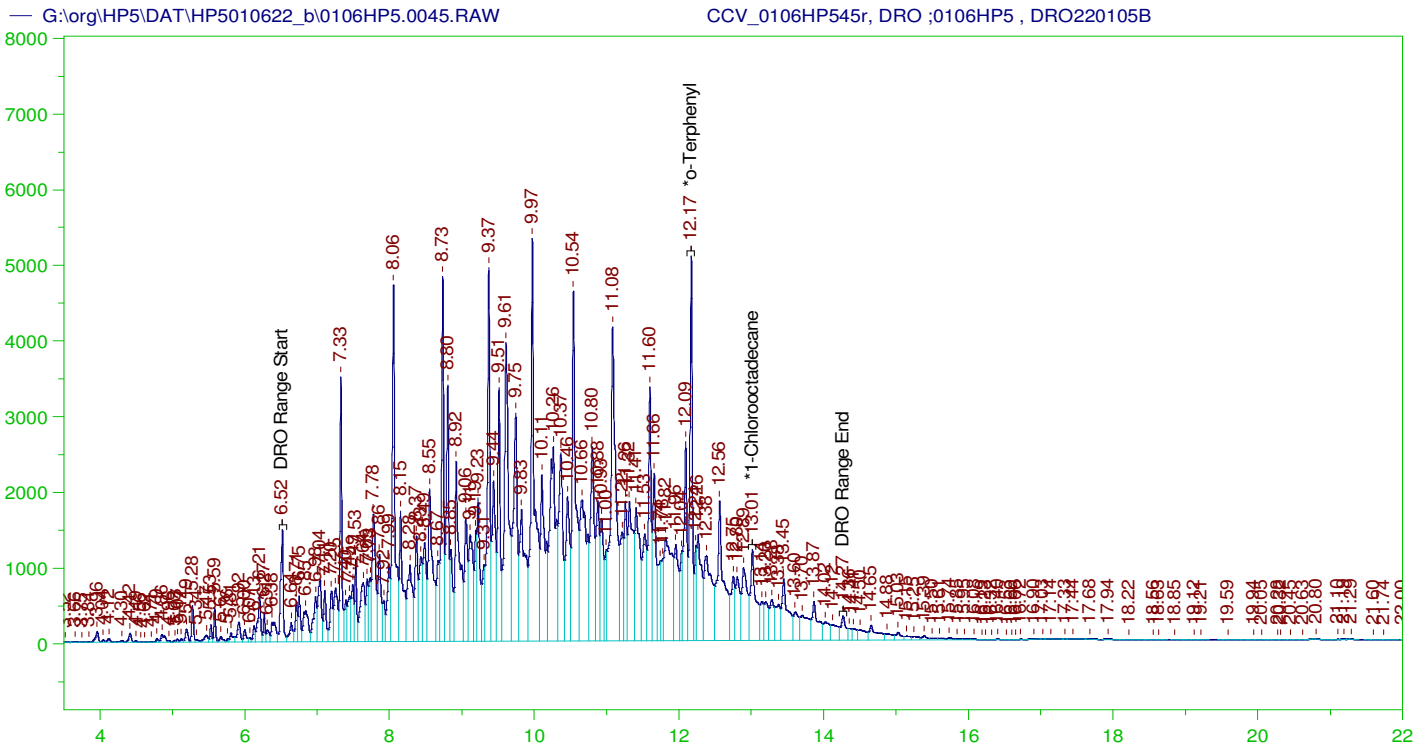
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.237	500.	217.948	43.59	-

RRO Area:6993164 RRO AMOUNT: 245.0096

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0044.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.071	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.237	200.	217.948	108.97	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP545r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0045.RAW
Date & Time Acquired: 1/7/2022 3:52:32 PM
Method File: G:\Org\HP5\Methods\DC_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

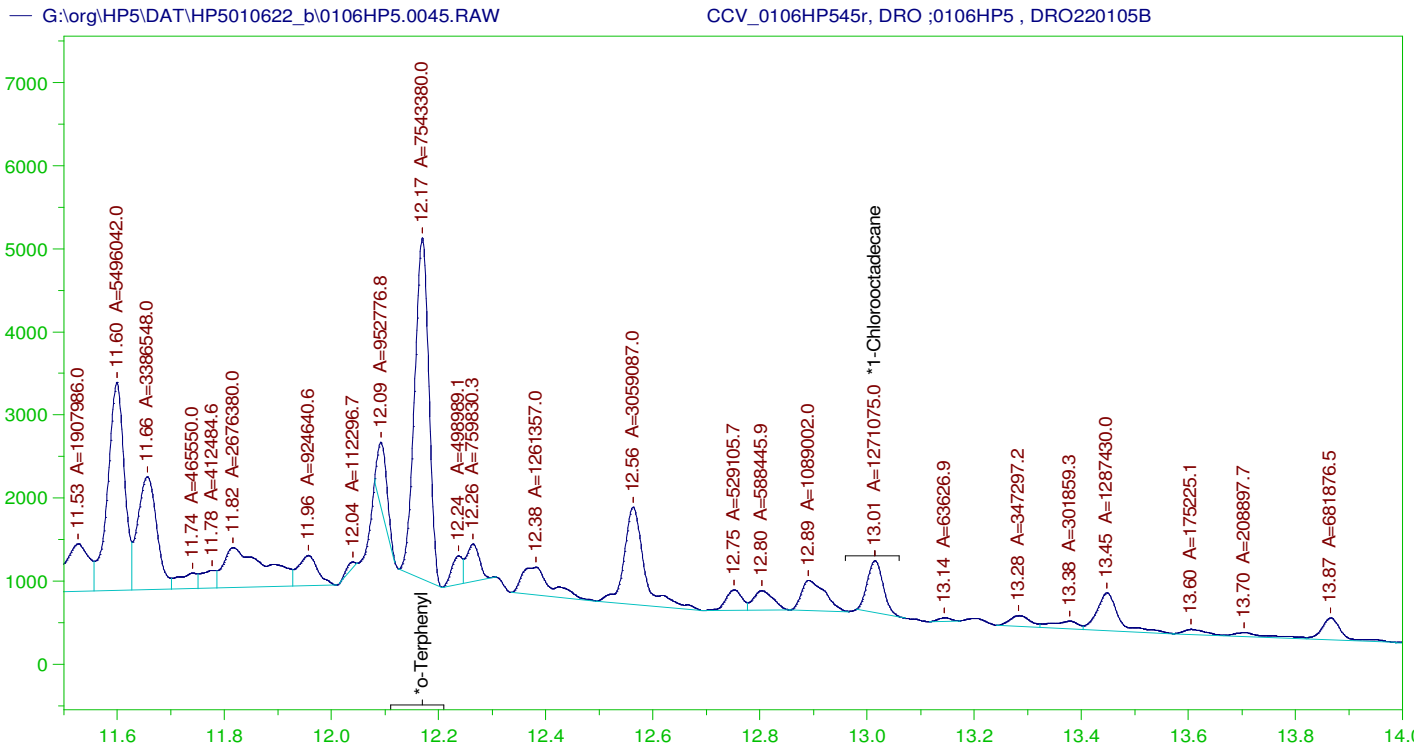
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.169	200.	349.392	174.7	-
*1-Chlorooctadecane	13.015	200.	175.375	87.69	-

DRO Area:5.03542E+08 DRO Amount: 16060.31
TEH Area:5.216117E+08 TEH Amount: 16636.64

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0045.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	16636.64	110.91	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.169	200.	349.392	174.7	85-115
*1-Chlorooctadecane	13.015	200.	175.375	87.69	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: CCV_0106HP545r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0045.RAW
Date & Time Acquired: 1/7/2022 3:52:32 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

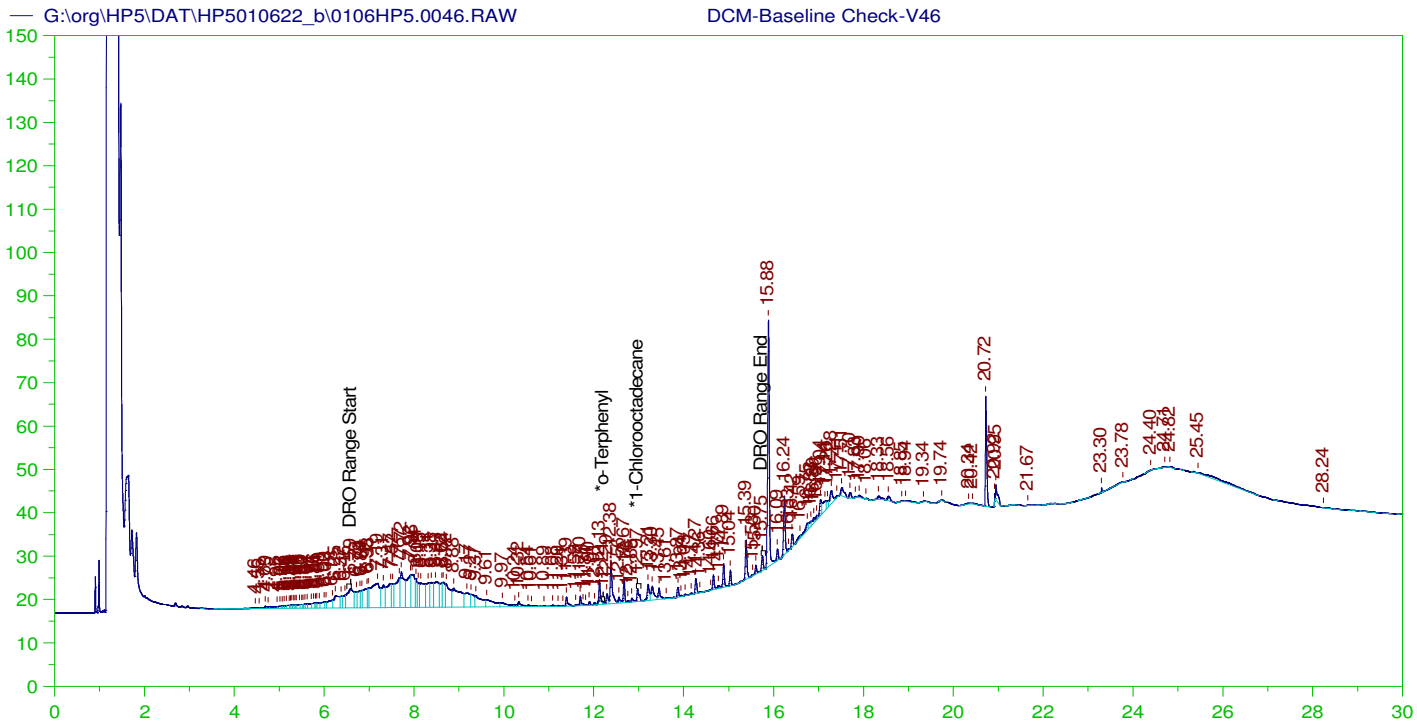
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.169	200.	212.435	106.22	-
*1-Chlorooctadecane	13.015	200.	35.796	17.9	-

DRO Area:2.819767E+08 DRO Amount: 8993.556
TEH Area:2.93054E+08 TEH Amount: 9346.863

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0045.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	9346.86	62.31	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.169	200.	212.435	106.22	85-115
*1-Chlorooctadecane	13.015	200.	35.796	17.9	85-115

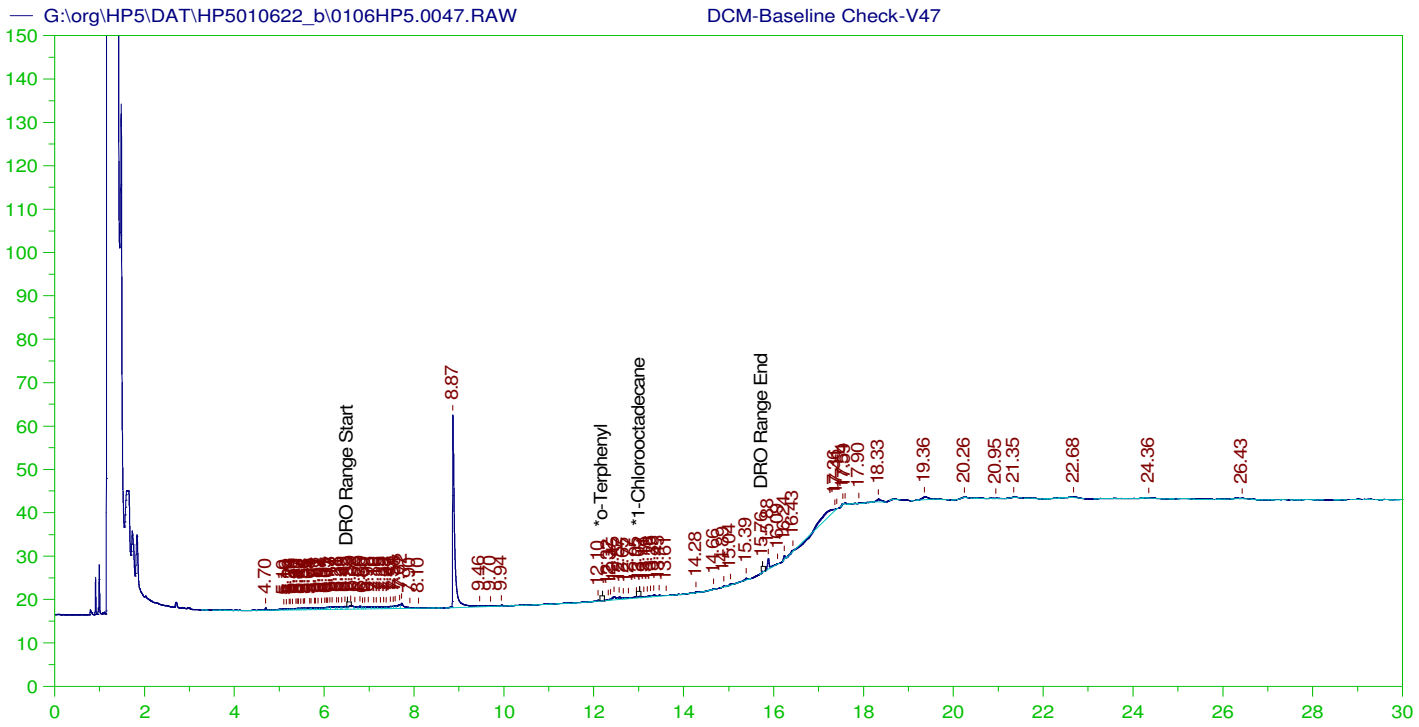


DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: DCM-Baseline Check-V46
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0046.RAW
Date & Time Acquired: 1/7/2022 4:37:10 PM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.208	200.	.041	.02	-
*1-Chlorooctadecane	12.974	200.	.27	.13	-

DRO Area:1148378 DRO Amount: 36.62715
TEH Area:1680630 TEH Amount: 53.60316



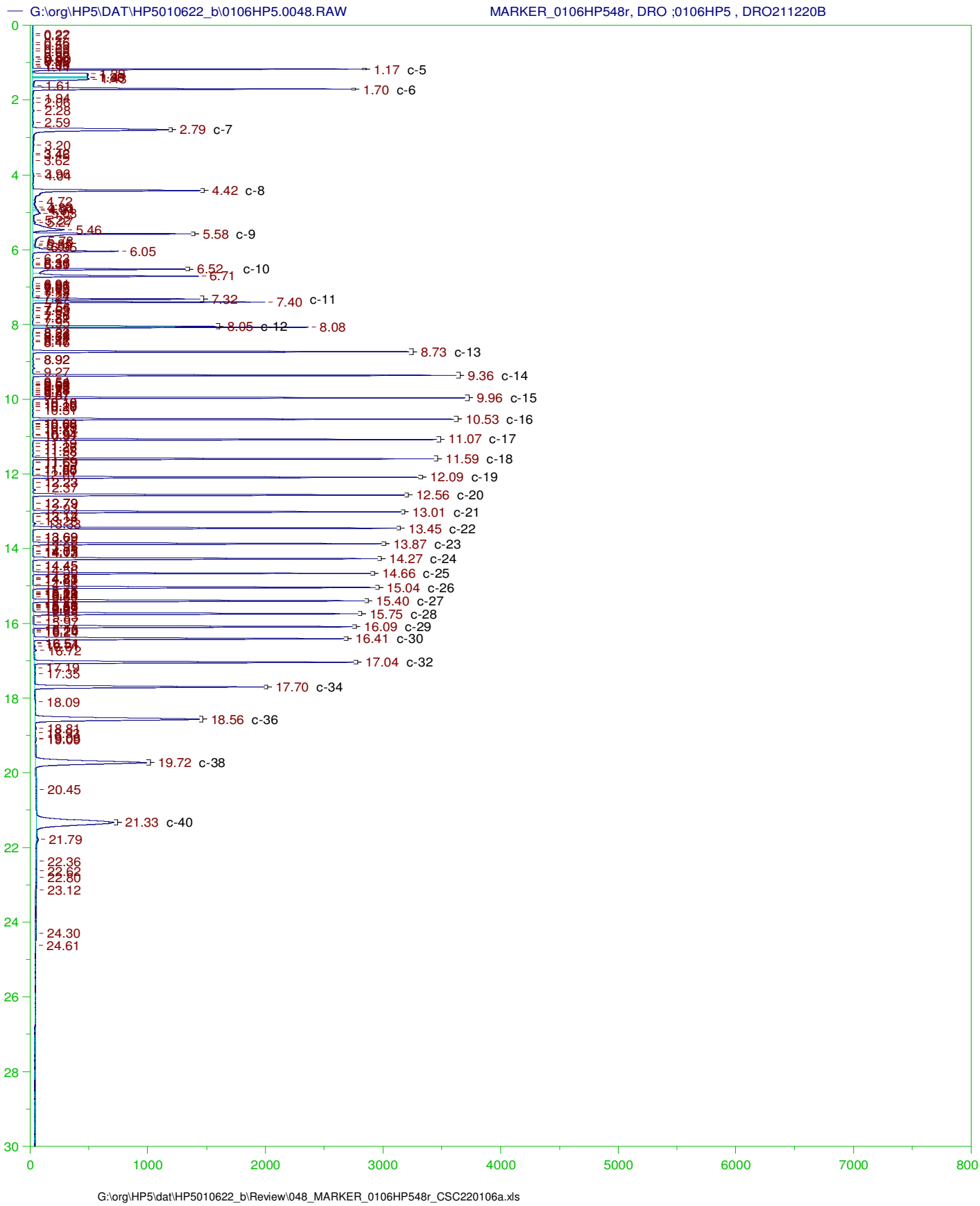
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V47
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0047.RAW
Date & Time Acquired: 1/7/2022 5:21:00 PM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.942	200.	.	. -
*1-Chlorooctadecane	13.02	200.	.047	.02 -

DRO Area:204464 DRO Amount: 6.521314
TEH Area:312873.2 TEH Amount: 9.978991


G:\org\HP5\DAT\HP5010622_b\0106HP5.0048.RAW
MARKER_0106HP548r, DRO ;0106HP5 , DRO211220B
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2.79 c-7
4.42 c-8
5.58 c-9
6.52 c-10
7.32
7.40 c-11
8.05 c-12
8.08
8.73 c-13
9.36 c-14
9.96 c-15
10.53 c-16
11.07 c-17
11.59 c-18
12.09 c-19
12.56 c-20
13.01 c-21
13.45 c-22
13.87 c-23
14.27 c-24
14.66 c-25
15.04 c-26
15.40 c-27
15.75 c-28
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19.72 c-38
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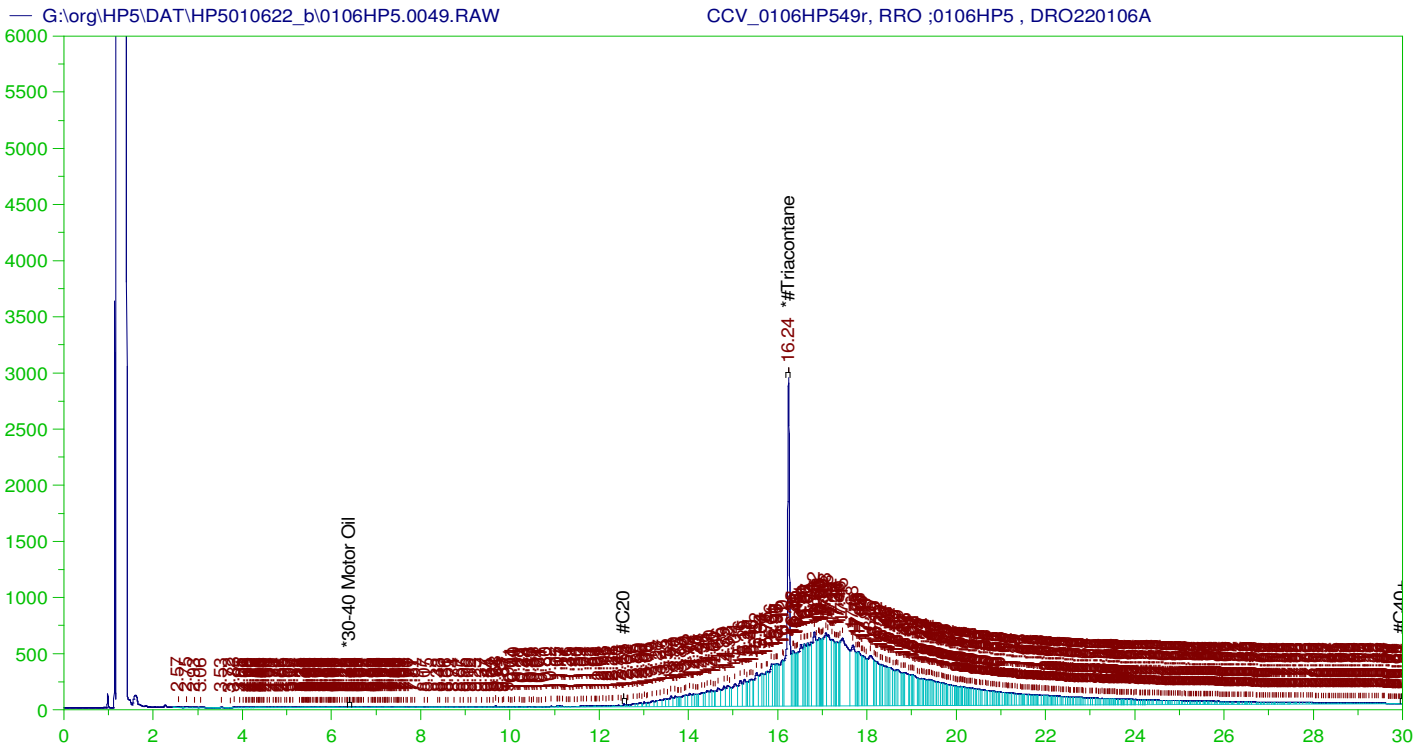


RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP549r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0049.RAW
Date & Time Acquired: 1/7/2022 6:48:53 PM
Method File: G:\Org\HP5\Methods\DC_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.239	500.	369.24	73.85	-

~~RRO~~ TEH (Oil Range) Area:1.490298E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 5221.345

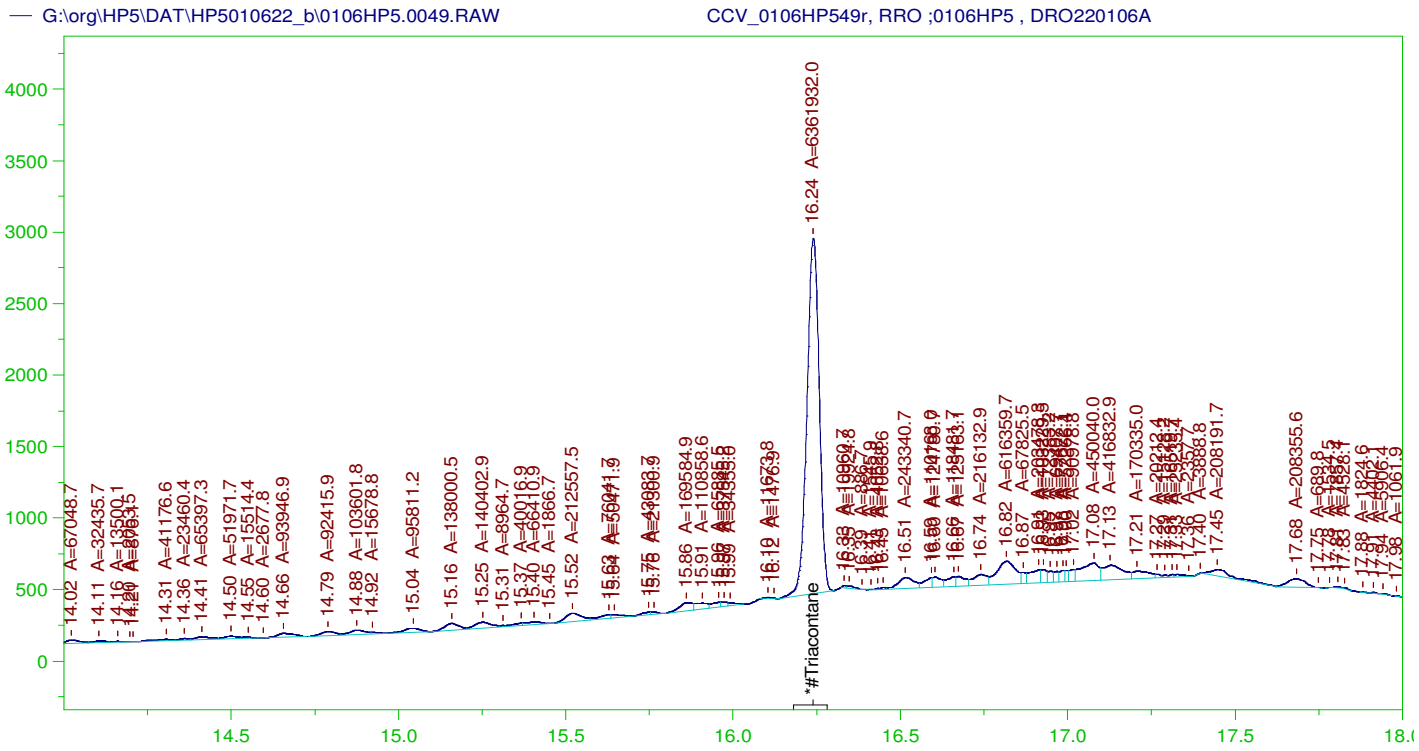
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0049.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.02	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.239	200.	369.24	184.62	75-125

AMN 01/31/2022

G:\org\HP5\dat\HP5010622_b\Review\049_CCV_0106HP549r_DC_ORO-AN-L%.xls



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP549r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0049.RAW
Date & Time Acquired: 1/7/2022 6:48:53 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

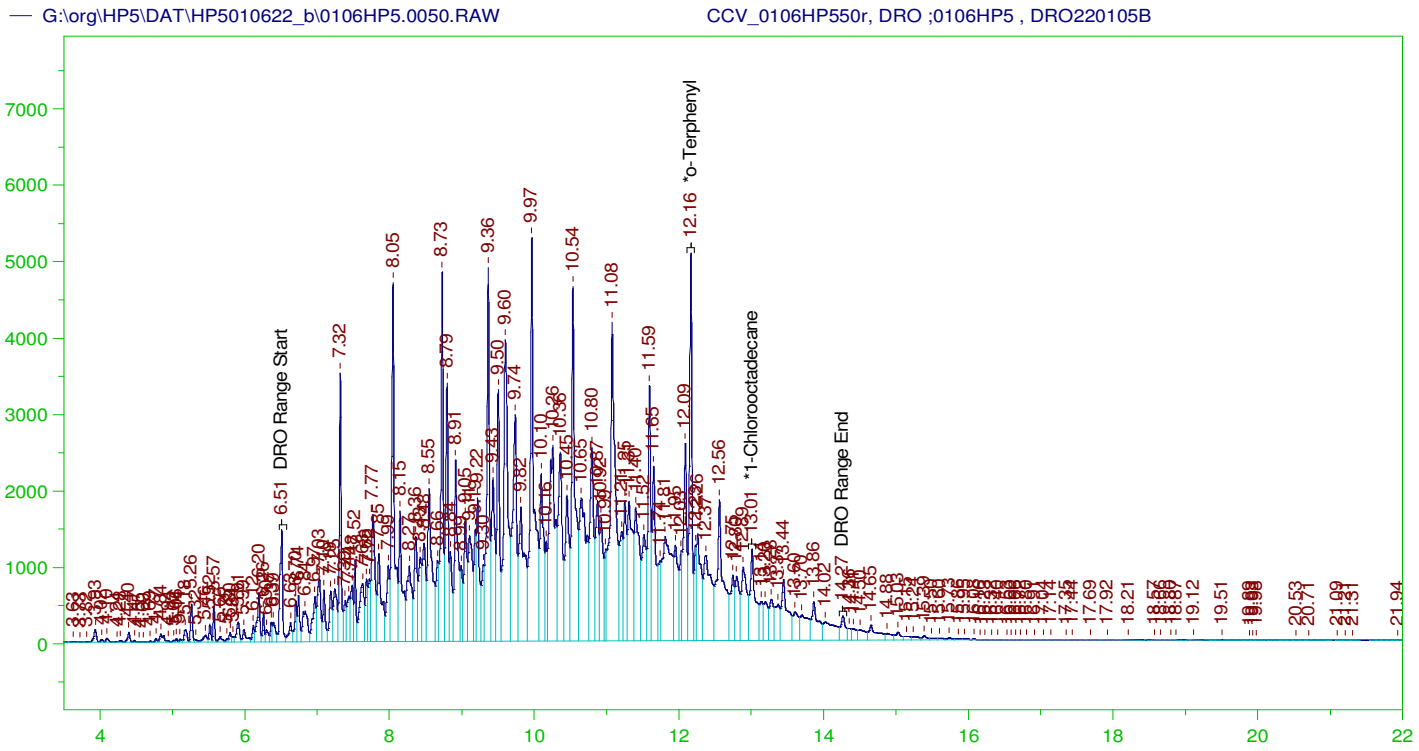
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.239	500.	219.907	43.98	-

RRO Area:6751741 RRO AMOUNT: 236.5512

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0049.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.02	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.239	200.	219.907	109.95	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP550r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0050.RAW
Date & Time Acquired: 1/7/2022 7:32:37 PM
Method File: G:\Org\HP5\Methods\DC_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

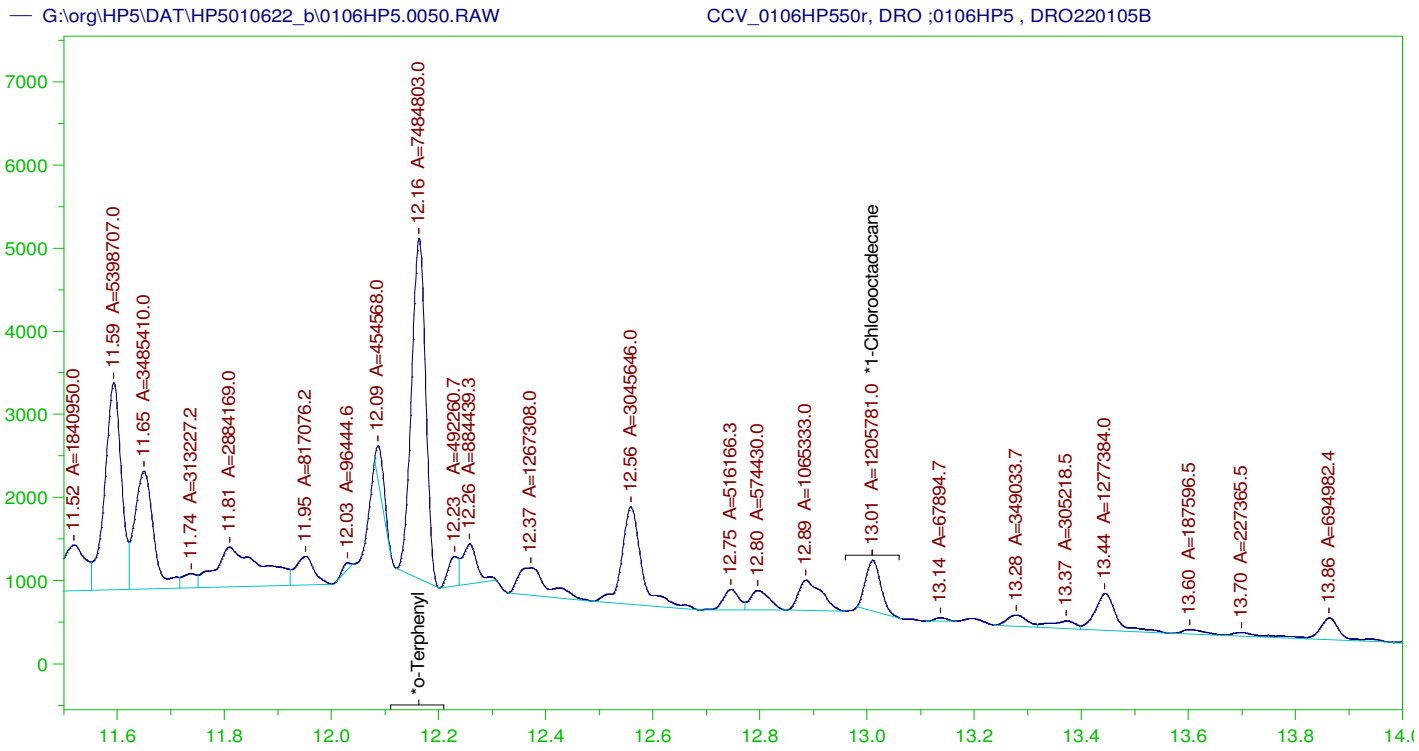
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.163	200.	346.005	173.	-
*1-Chlorooctadecane	13.01	200.	176.586	88.29	-

DRO Area:4.991253E+08 DRO Amount: 15919.44
TEH Area:5.173263E+08 TEH Amount: 16499.96

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0050.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	16499.96	110.	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.163	200.	346.005	173.	85-115
*1-Chlorooctadecane	13.01	200.	176.586	88.29	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: CCV_0106HP550r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0050.RAW
Date & Time Acquired: 1/7/2022 7:32:37 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

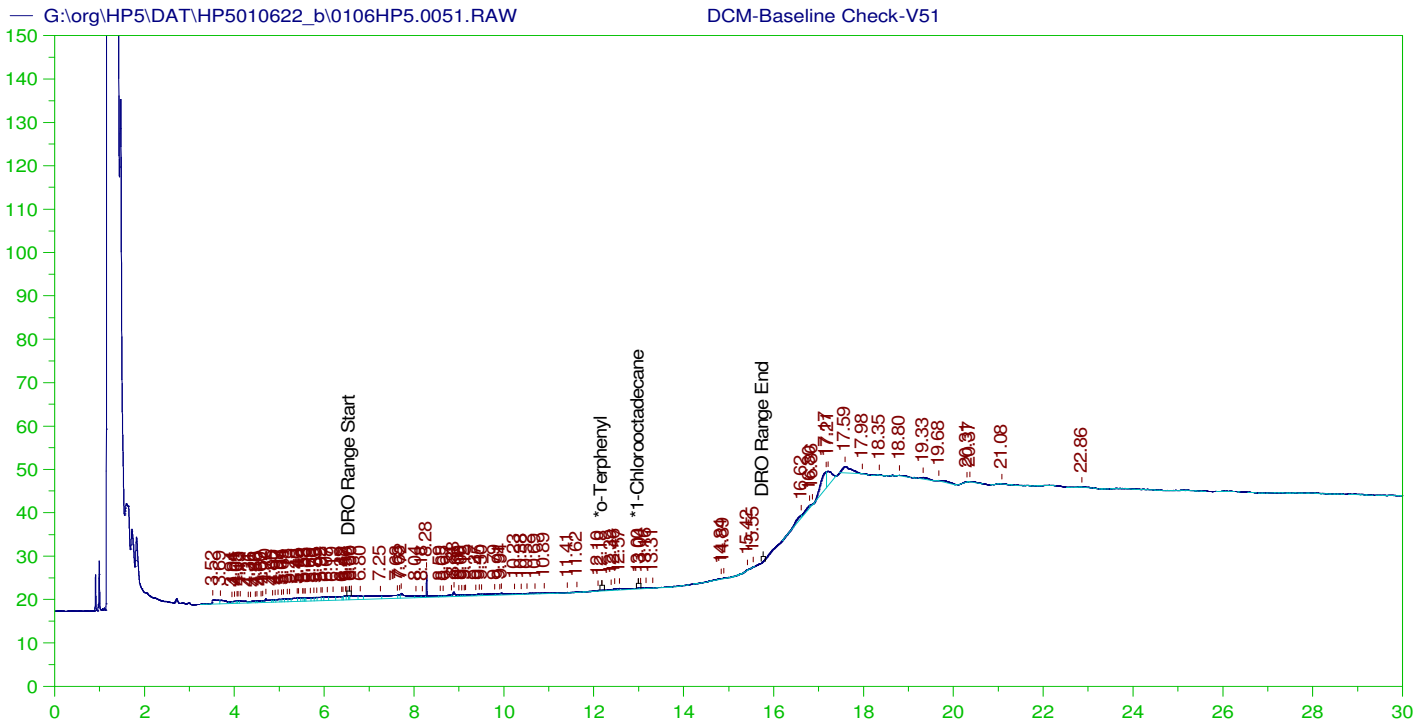
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.163	200.	210.785	105.39	-
*1-Chlorooctadecane	13.01	200.	33.957	16.98	-

DRO Area:2.761939E+08 DRO Amount: 8809.114
TEH Area:2.874056E+08 TEH Amount: 9166.709

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0050.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	9166.71	61.11	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.163	200.	210.785	105.39	85-115
*1-Chlorooctadecane	13.01	200.	33.957	16.98	85-115



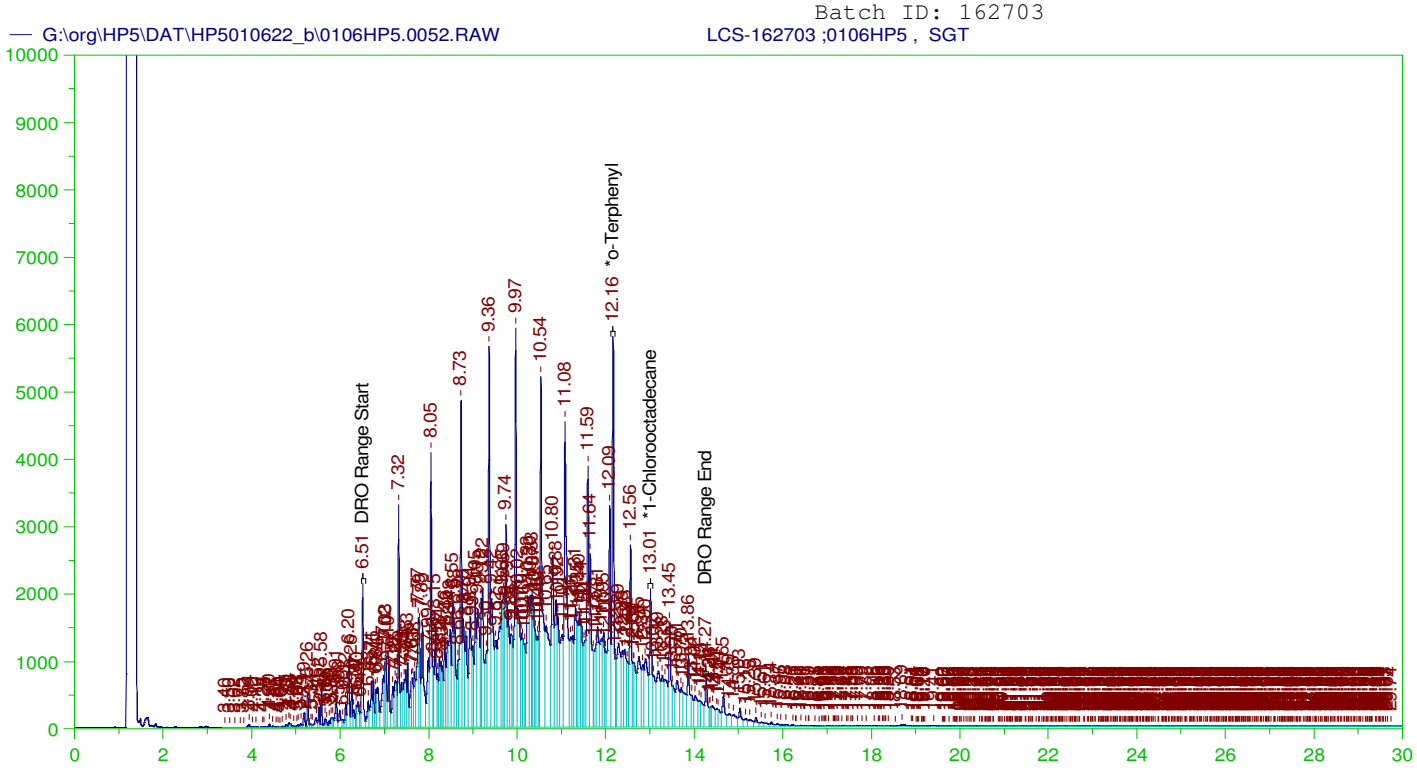
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: DCM-Baseline Check-V51
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0051.RAW
Date & Time Acquired: 1/7/2022 8:16:23 PM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.177	200.	.023	.01	-
*1-Chlorooctadecane	12.997	200.	.033	.02	-

DRO Area:123830.9 DRO Amount: 3.949546
TEH Area:367619.8 TEH Amount: 11.72511

Batch ID: 162703



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

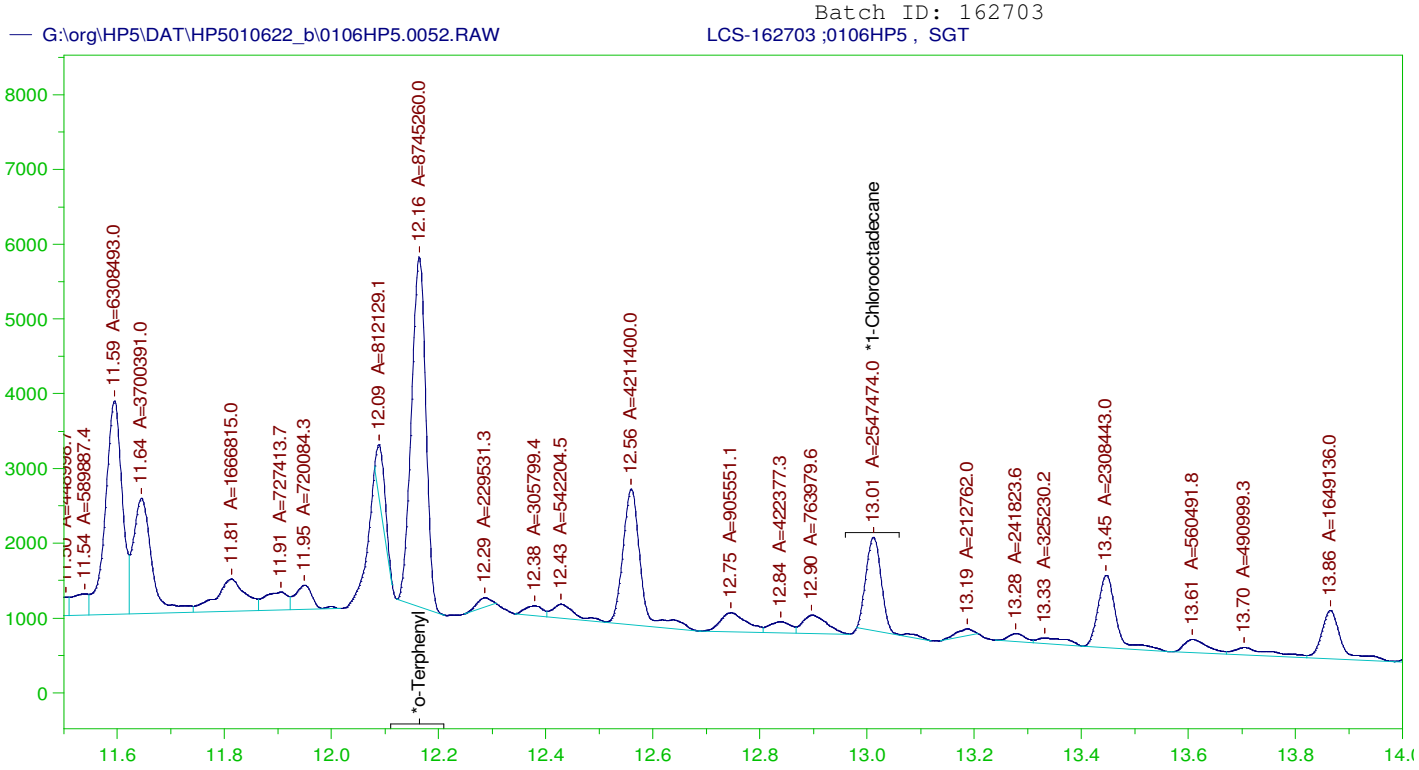
Sample Name: LCS-162703 ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0052.RAW
Date & Time Acquired: 1/7/2022 9:00:15 PM
Method File: G:\Org\HP5\Methods\D3_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.164	.2	.422	210.79	-
*1-Chlorooctadecane	13.012	.2	.197	98.68	-

DRO Area:5.438083E+08 DRO Amount: 17.34459
TEH Area:5.795654E+08 TEH Amount: 18.48505

Batch ID: 162703



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

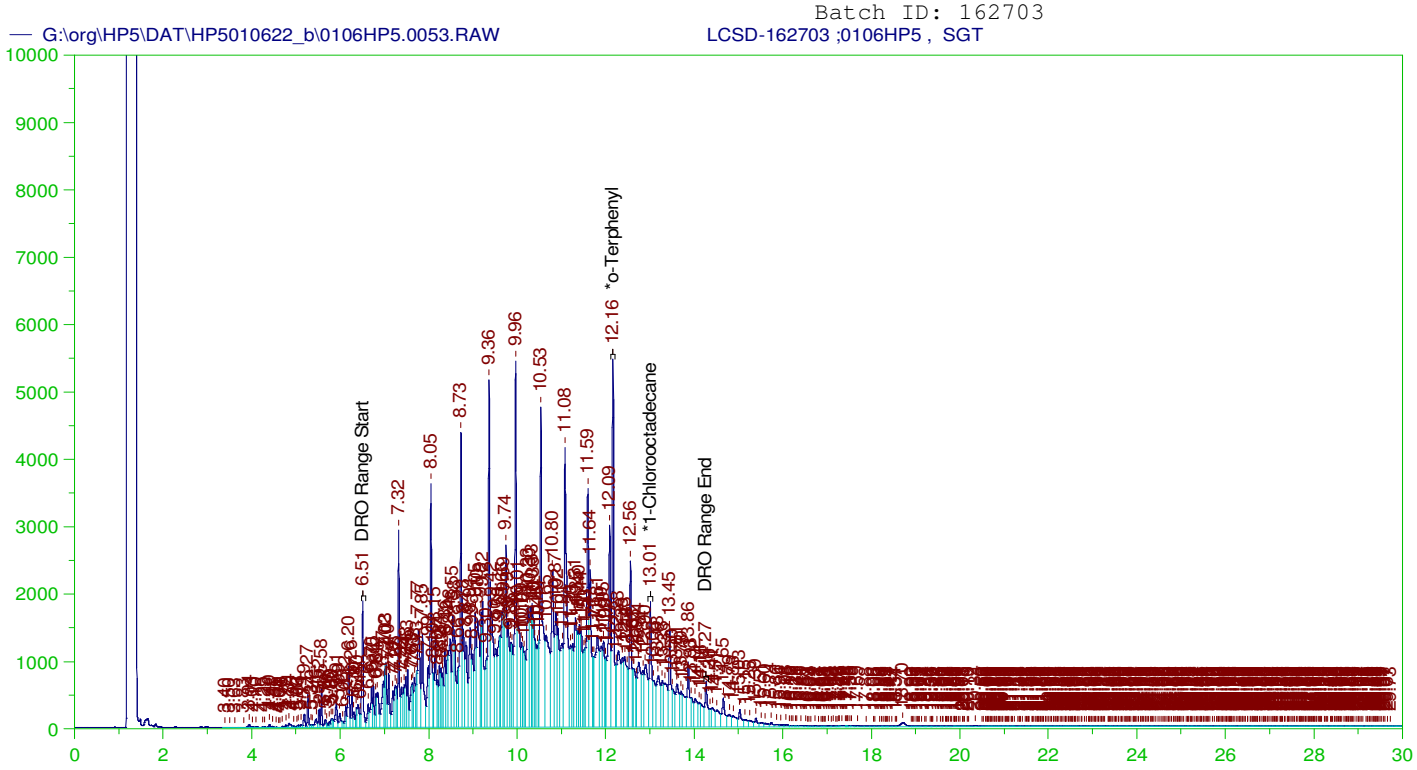
Sample Name: LCS-162703 ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0052.RAW
Date & Time Acquired: 1/7/2022 9:00:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.164	.2	.246	123.14	-
*1-Chlorooctadecane	13.012	.2	.072	35.87	-

DRO Area:2.610877E+08 DRO Amount: 8.32731
TEH Area:2.767023E+08 TEH Amount: 8.825332

Batch ID: 162703



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

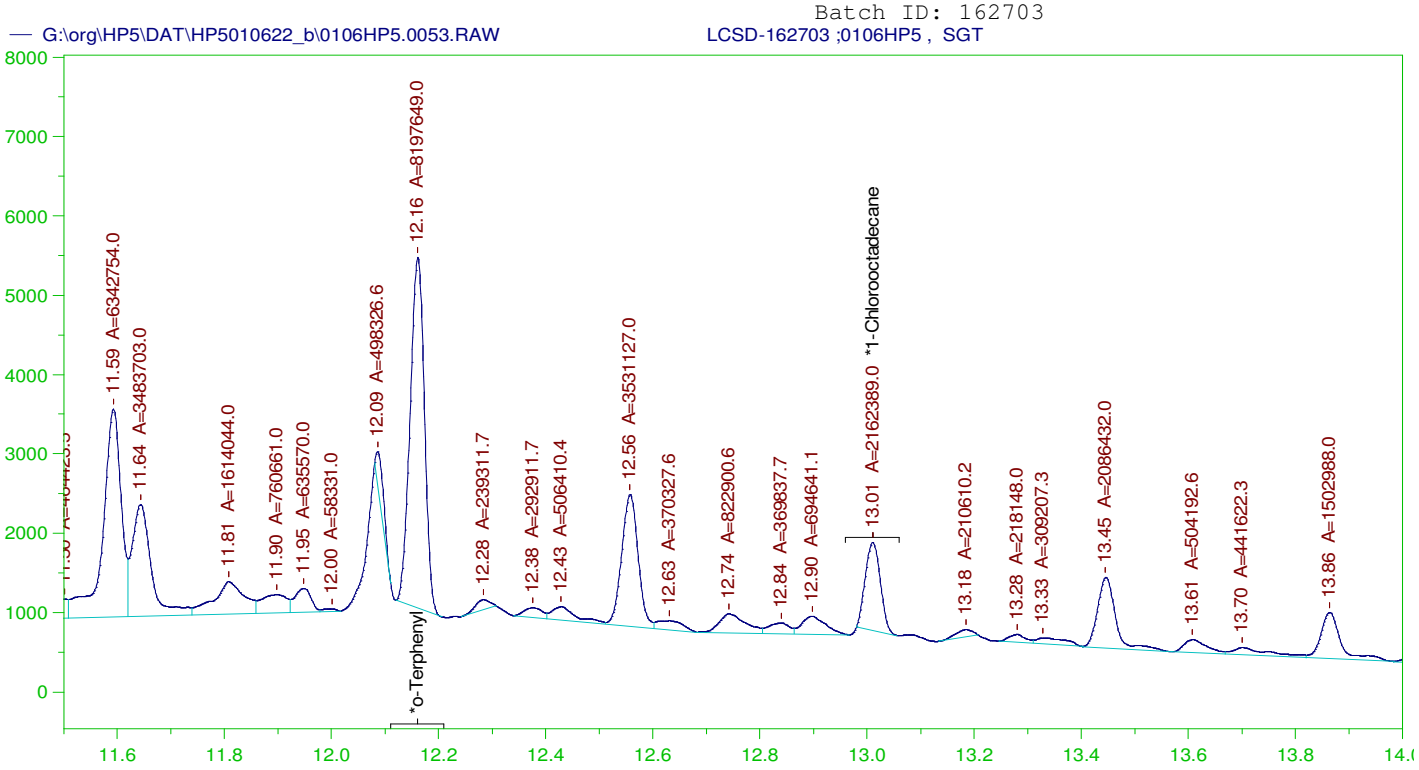
Sample Name: LCSD-162703 ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0053.RAW
Date & Time Acquired: 1/7/2022 9:44:02 PM
Method File: G:\Org\HP5\Methods\D3_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.2	.393	196.59	-
*1-Chlorooctadecane	13.011	.2	.18	89.84	-

DRO Area:4.918712E+08 DRO Amount: 15.68807
TEH Area:5.245161E+08 TEH Amount: 16.72927

Batch ID: 162703



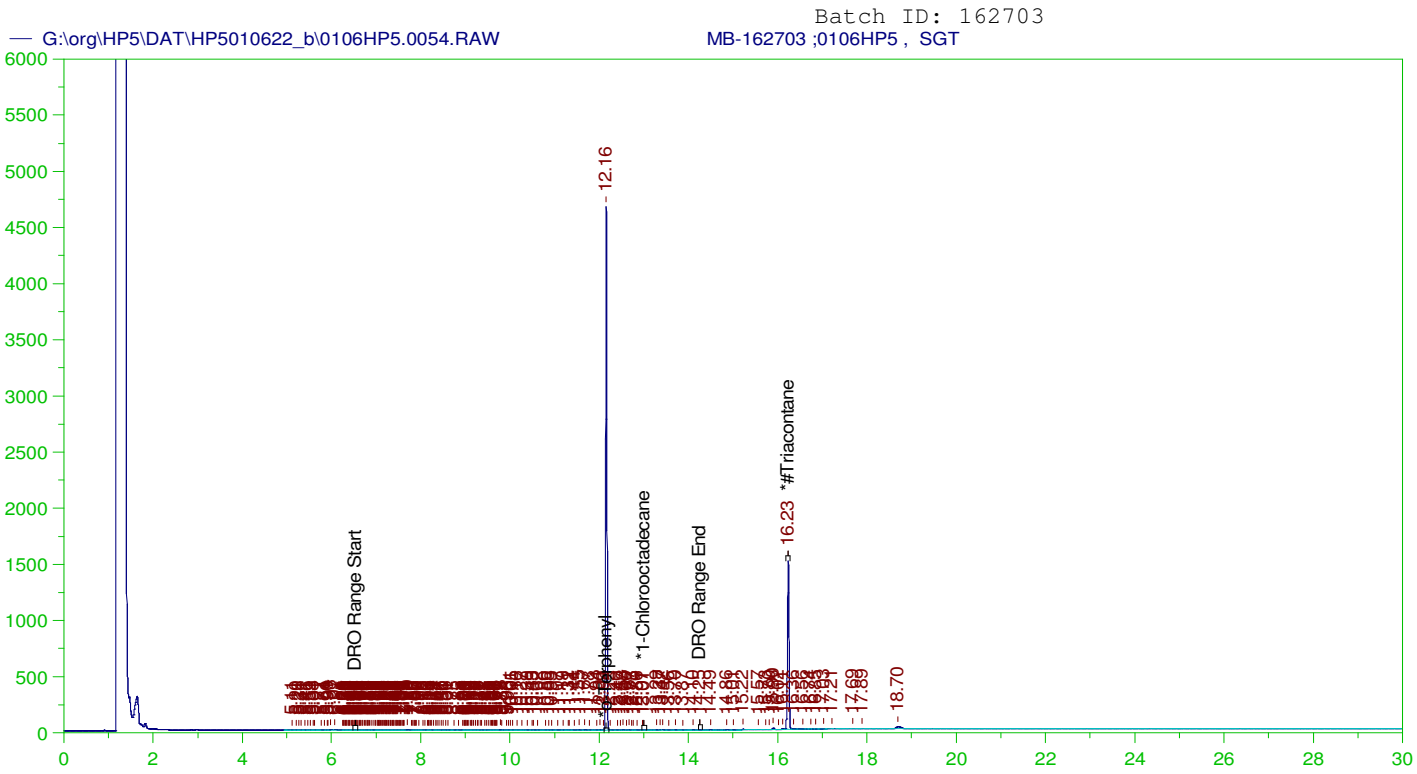
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCSD-162703 ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0053.RAW
Date & Time Acquired: 1/7/2022 9:44:02 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.161	.2	.231	115.43	-
*1-Chlorooctadecane	13.011	.2	.061	30.45	-

DRO Area:2.365875E+08 DRO Amount: 7.545884
TEH Area:2.502365E+08 TEH Amount: 7.981214

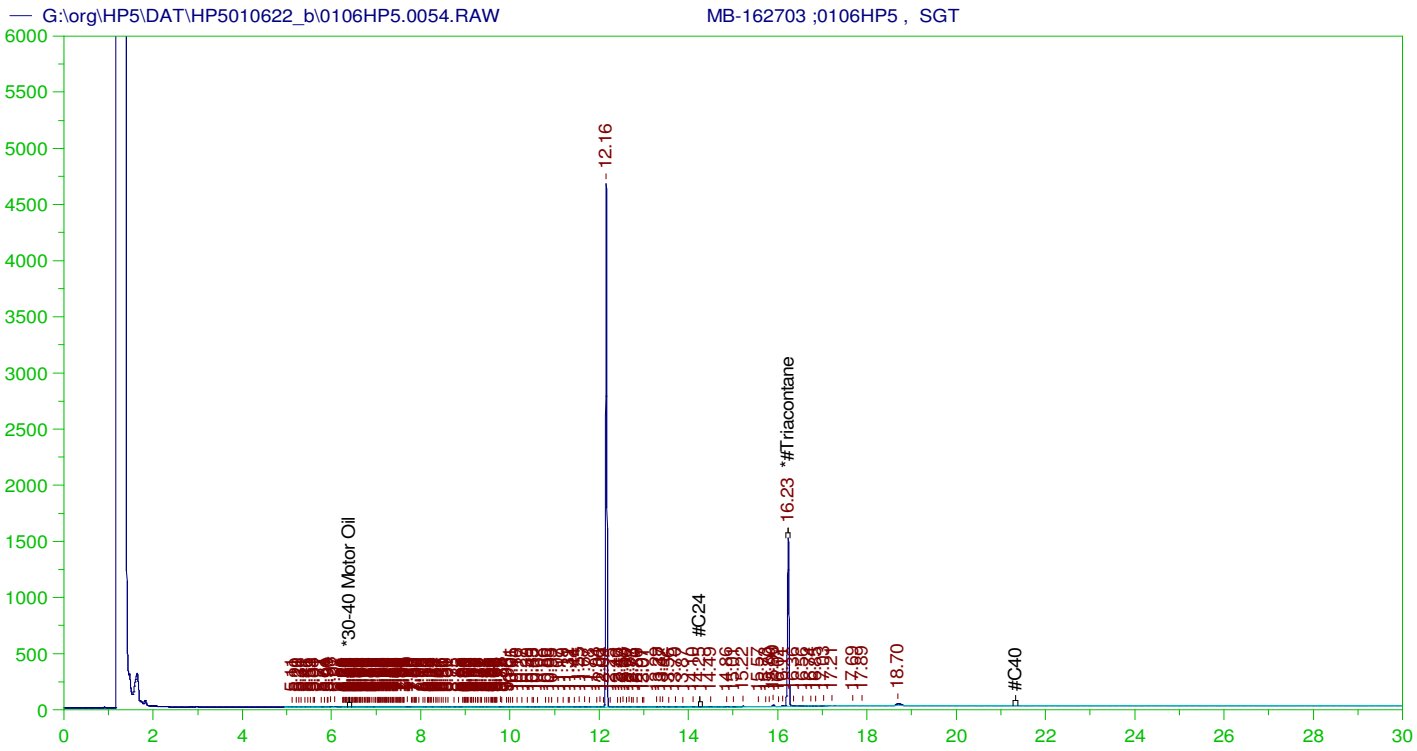


DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: MB-162703 ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0054.RAW
Date & Time Acquired: 1/7/2022 10:27:47 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.158	.2	.244	121.88	-
*1-Chlorooctadecane	13.006	.2	.	.02	-
*#Triacontane	16.232	.2	.132	66.16	-

DRO Area:367266.9 DRO Amount: 1.171386E-02
TEH Area:768723.8 TEH Amount: 0.0245182



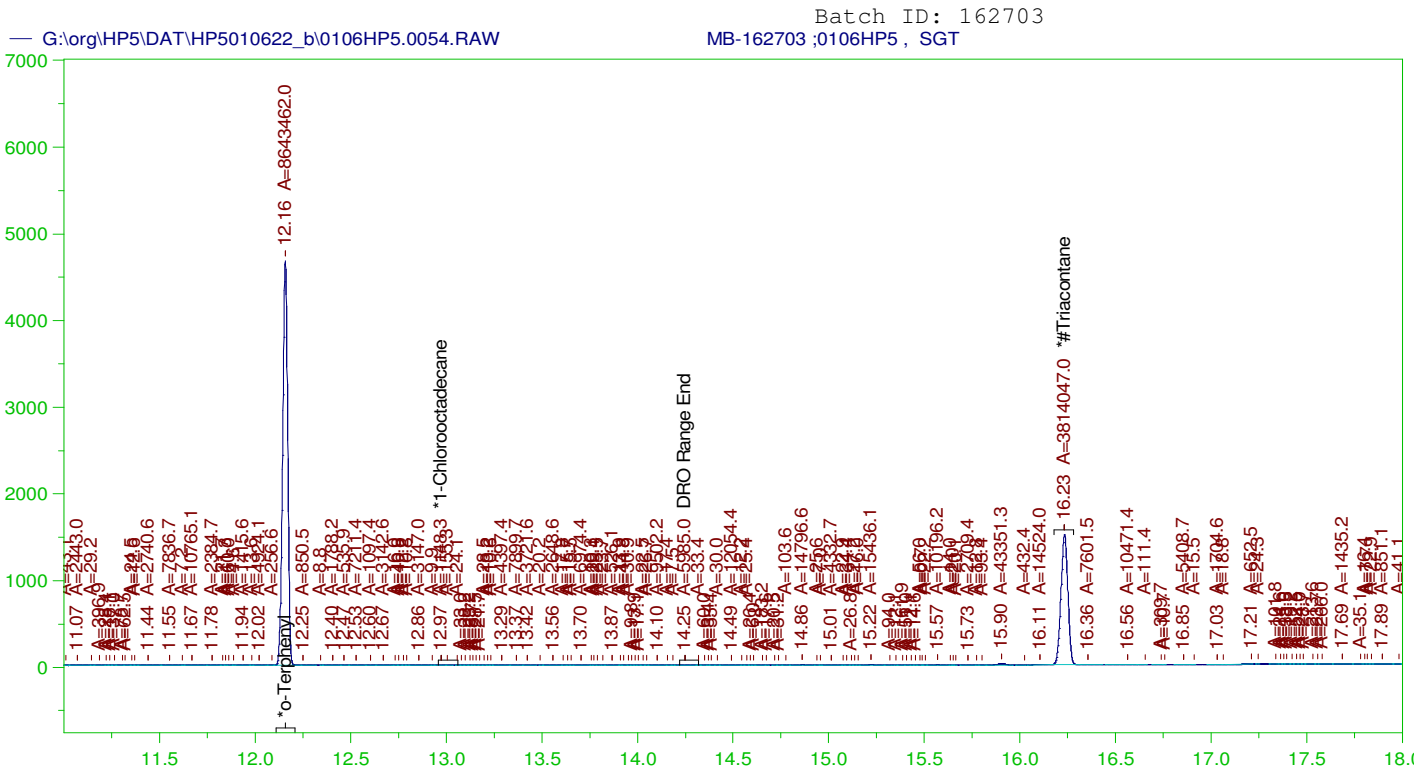
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: MB-162703 ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0054.RAW
Date & Time Acquired: 1/7/2022 10:27:47 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-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: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.232	.5	.132	26.46	-

RRO Area:287032.1 RRO AMOUNT: 1.005634E-02



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-162703 ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0054.RAW
Date & Time Acquired: 1/7/2022 10:27:47 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

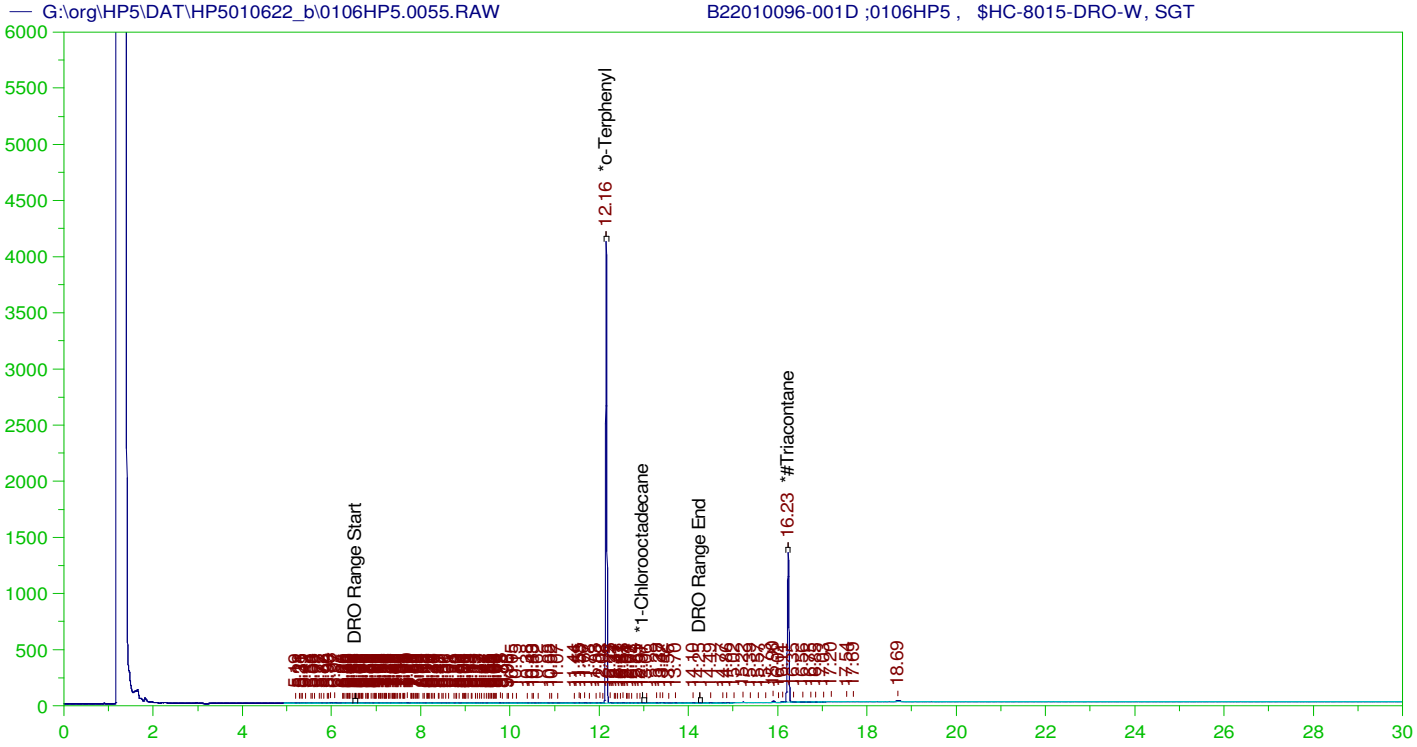
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.158	.2	.243	121.71	-
*1-Chlorooctadecane	12.971	.2	.	.02	-
*#Triacontane	16.232	.2	.132	65.92	-

DRO Area:354041.3 DRO Amount: 1.129203E-02
TEH Area:837805 TEH Amount: 2.672152E-02

ERH2297 (RHMW15 zone5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0055.RAW B22010096-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010096-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0055.RAW
Date & Time Acquired: 1/7/2022 11:11:31 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

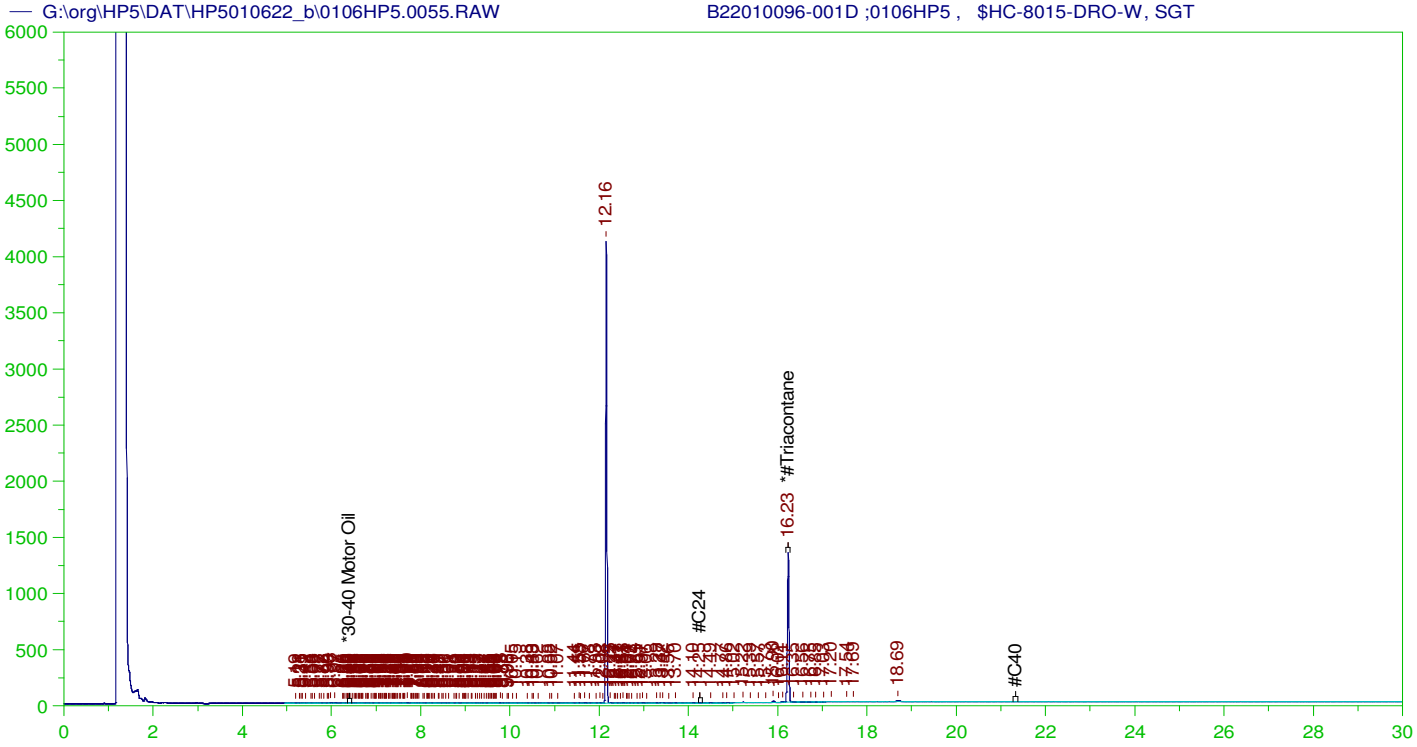
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.198	.212	107.15	-
*1-Chlorooctadecane	12.971	.198	.16		-
*#Triacontane	16.231	.198	.115	58.06	-

DRO Area:335175.7 DRO Amount: 1.058448E-02
TEH Area:614901.6 TEH Amount: 1.941791E-02

ERH2297 (RHMW15 zone5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0055.RAW B22010096-001D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010096-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0055.RAW
Date & Time Acquired: 1/7/2022 11:11:31 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

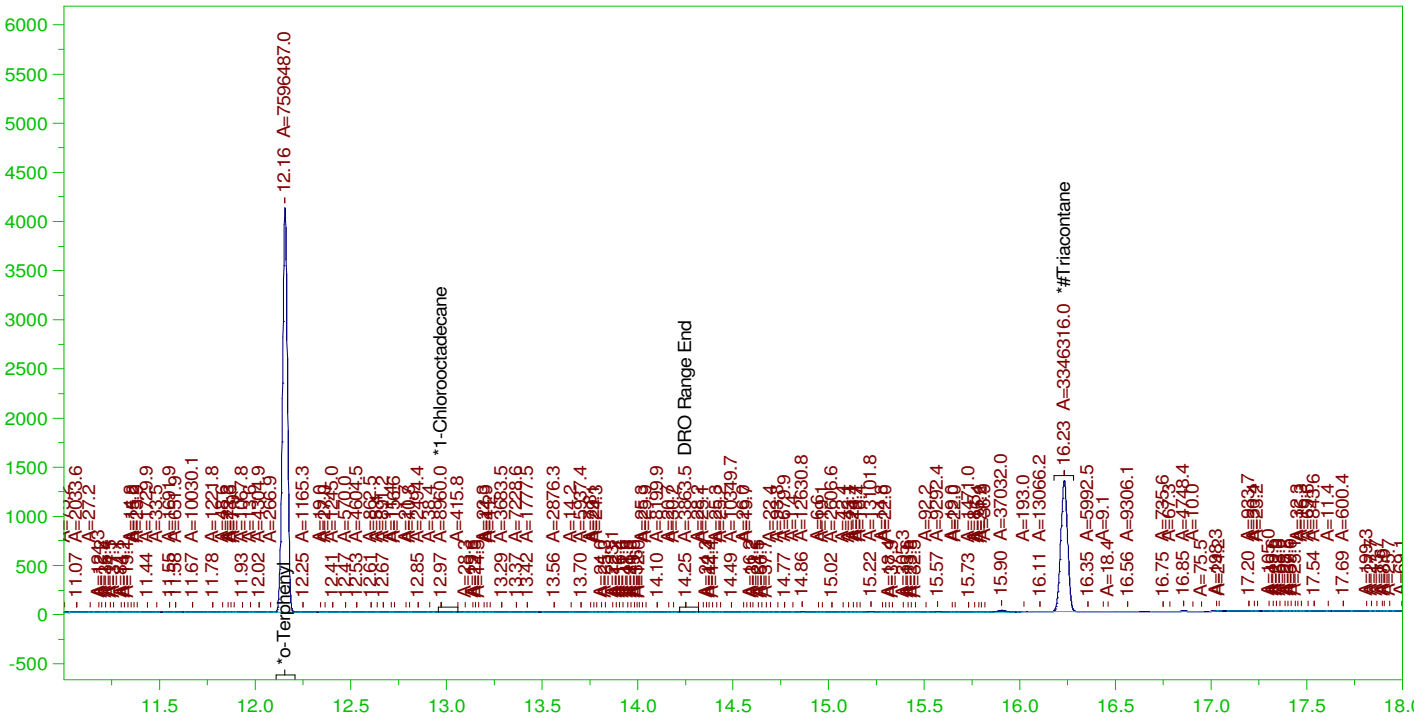
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.231	.495	.115	23.22	-

RRO Area:178342.7 RRO AMOUNT: 6.186475E-03

ERH2297 (RHMW15 zone5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0055.RAW B22010096-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010096-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0055.RAW
Date & Time Acquired: 1/7/2022 11:11:31 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1010 Dilution: 1 S.A.: 1

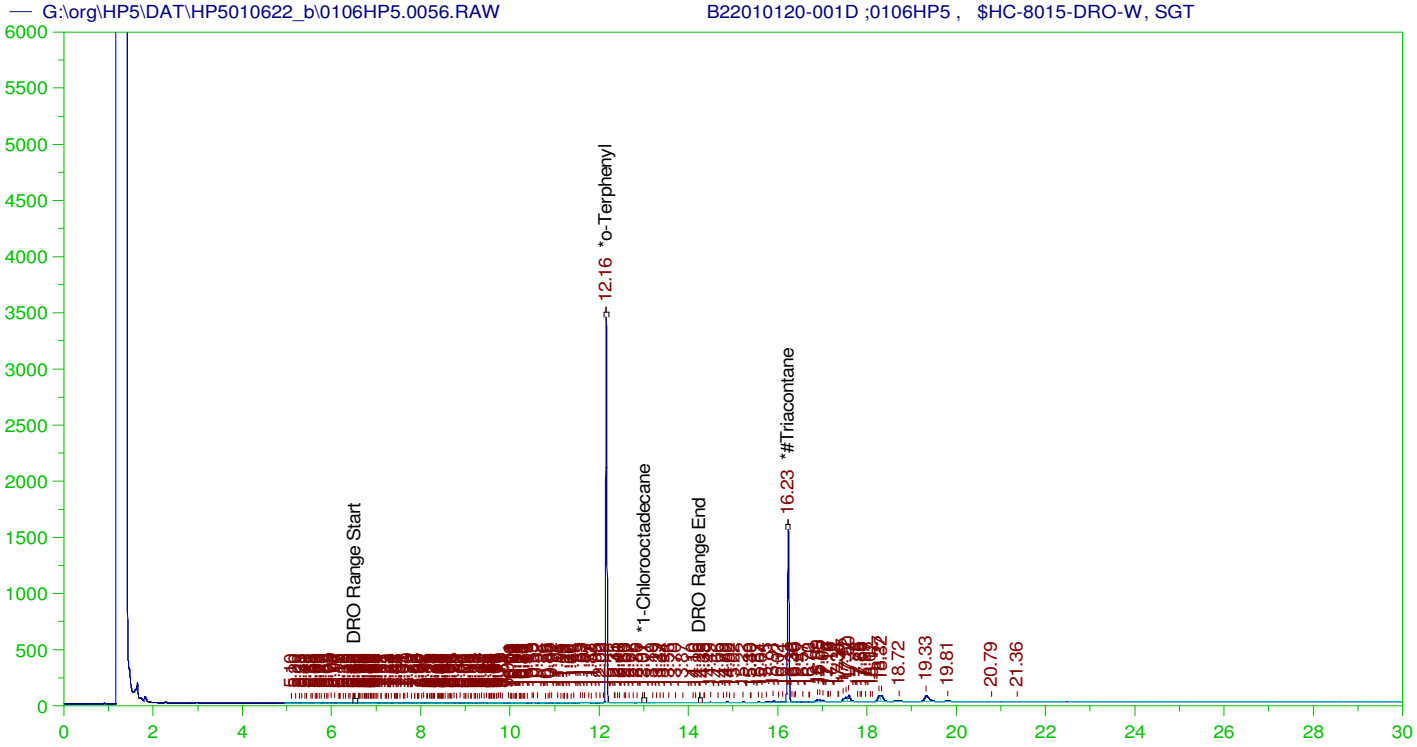
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.198	.212	106.97	-
*1-Chlorooctadecane	12.971	.198	.13		-
*#Triacontane	16.231	.198	.115	57.83	-

DRO Area:311521.9 DRO Amount: 9.837515E-03
TEH Area:650033.8 TEH Amount: 2.052734E-02

ERH2315 (RHMW08) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0056.RAW B22010120-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010120-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0056.RAW
Date & Time Acquired: 1/7/2022 11:55:22 PM
Method File: G:\Org\HP5\Methods\DR_8015-010656-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

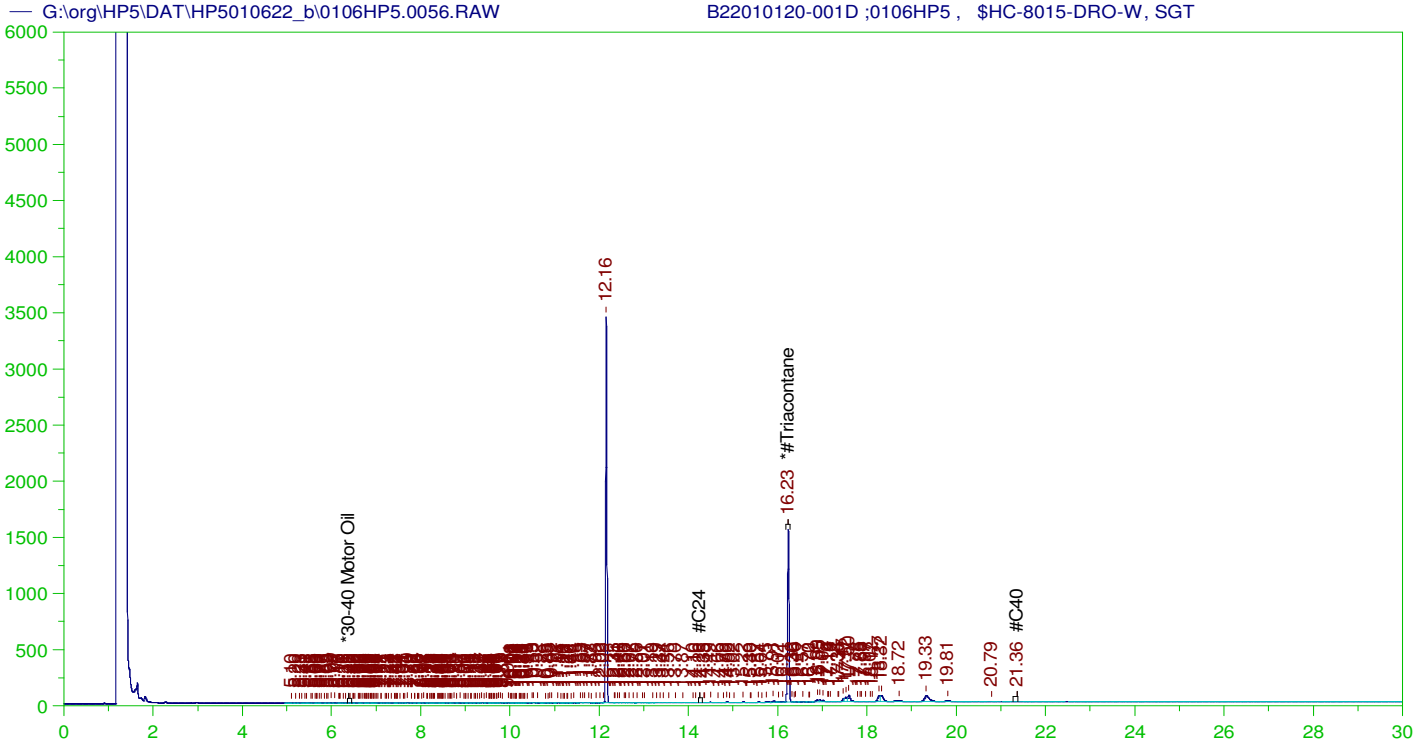
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.2	.179	89.26	-
*1-Chlorooctadecane	13.009	.2	.03		-
*#Triacontane	16.234	.2	.135	67.42	-

DRO Area:470596 DRO Amount: 1.500951E-02
TEH Area:2308568 TEH Amount: 7.363102E-02

ERH2315 (RHMW08) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0056.RAW B22010120-001D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010120-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0056.RAW
Date & Time Acquired: 1/7/2022 11:55:22 PM
Method File: G:\Org\HP5\Methods\DR_OROS-010656-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

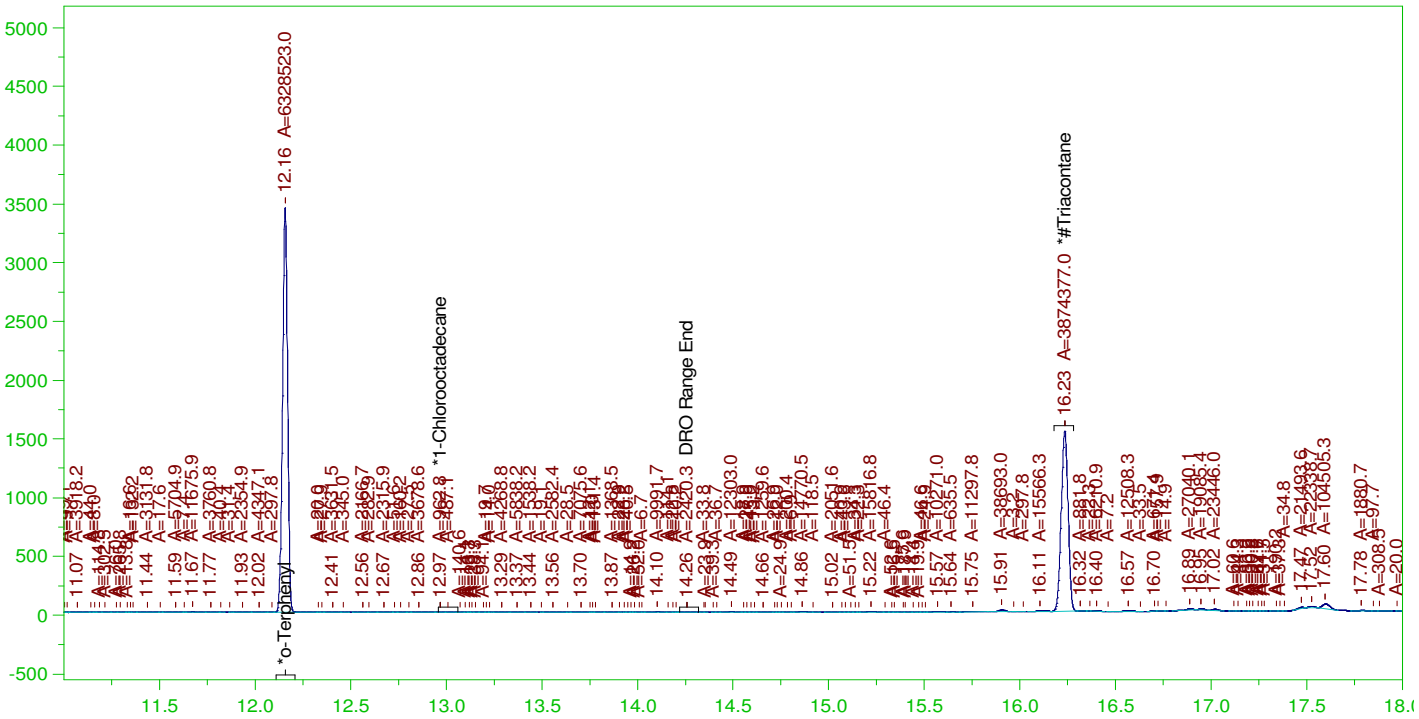
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.234	.5	.135	26.97	-

RRO Area:1738914 RRO AMOUNT: 6.092387E-02

ERH2315 (RHMW08) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0056.RAW B22010120-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

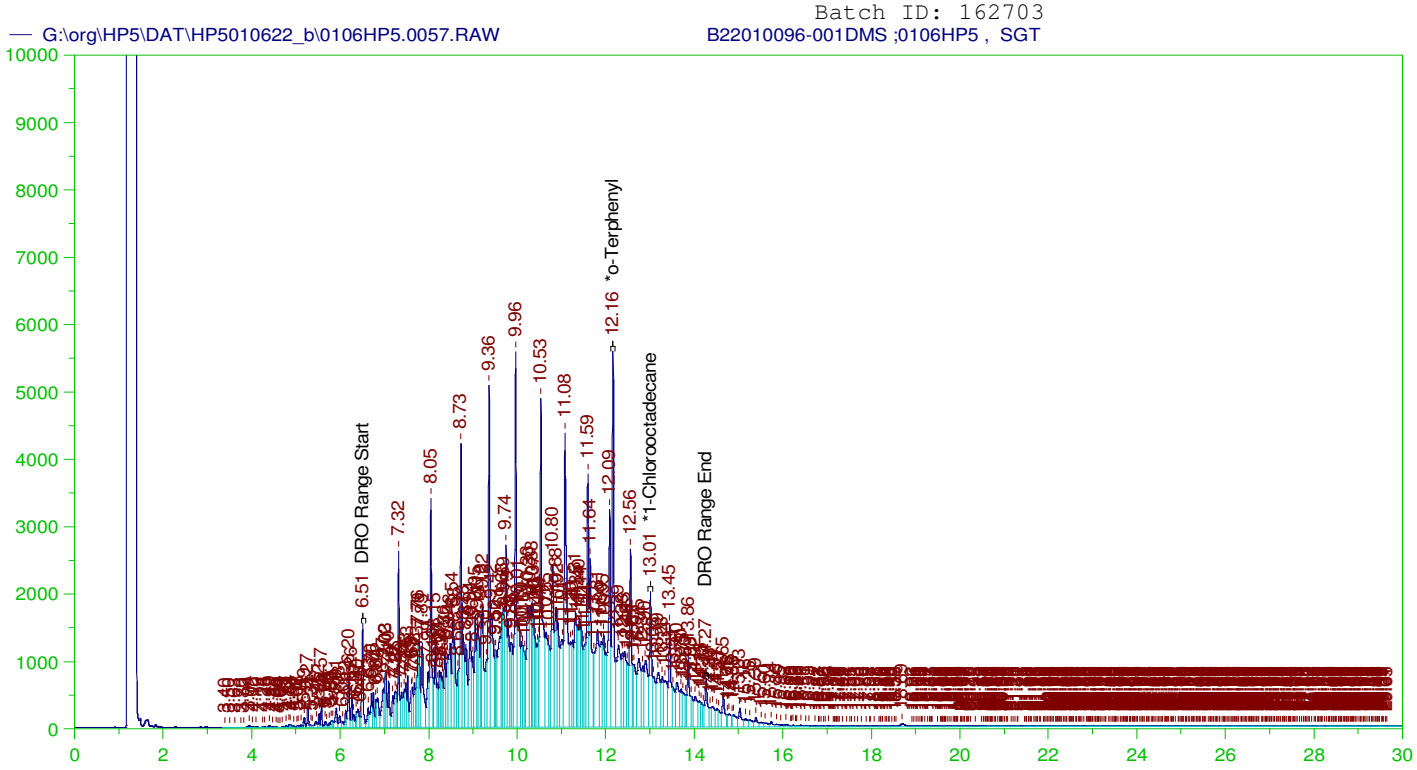
Sample Name: B22010120-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0056.RAW
Date & Time Acquired: 1/7/2022 11:55:22 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.2	.178	89.11	-
*1-Chlorooctadecane	12.97	.2	. .01		-
*#Triacontane	16.234	.2	.134	66.96	-

DRO Area:405973 DRO Amount: 1.294838E-02
TEH Area:1520876 TEH Amount: 4.850786E-02

Batch ID: 162703



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

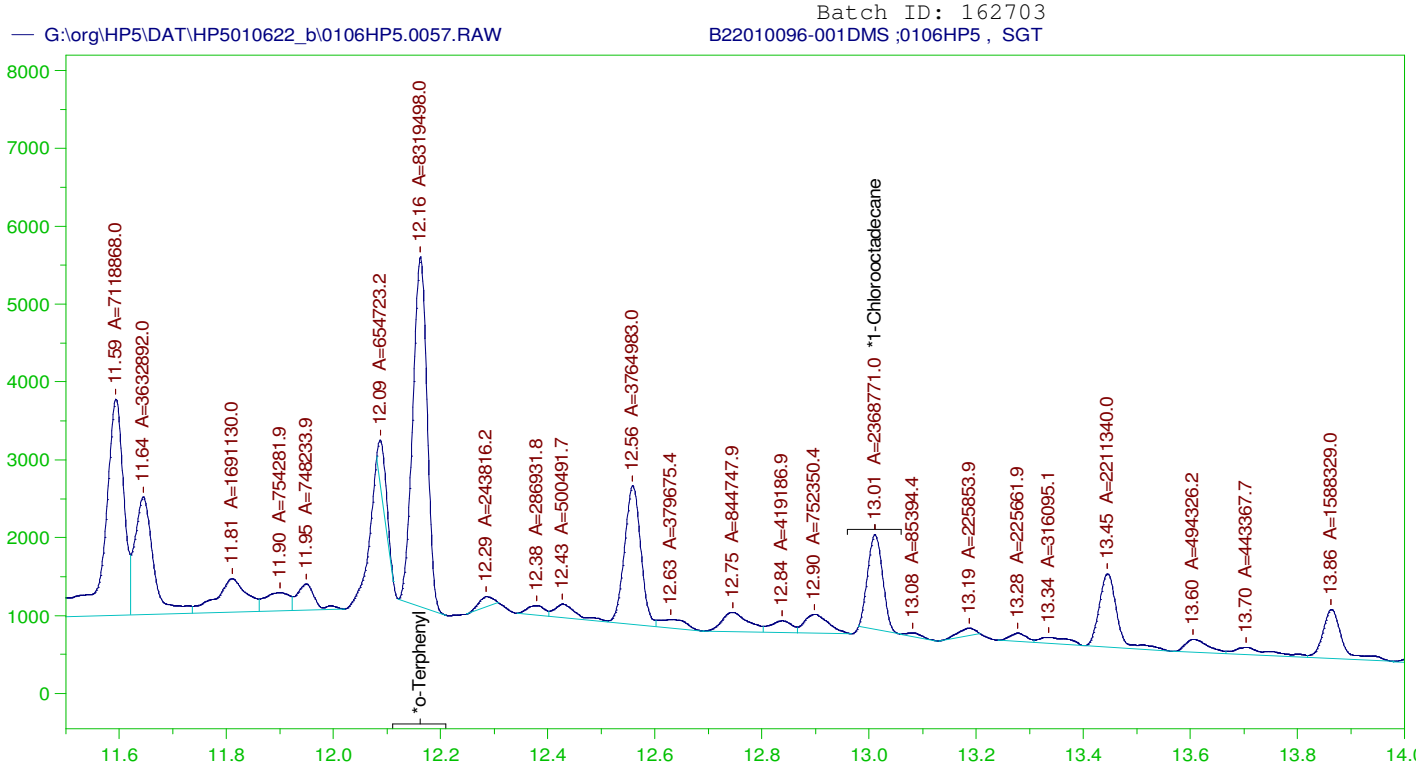
Sample Name: B22010096-001DMS ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0057.RAW
Date & Time Acquired: 1/8/2022 12:39:06 AM
Method File: G:\Org\HP5\Methods\D3_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.162	.194	.395	203.49	-
*1-Chlorooctadecane	13.011	.194	.183	94.43	-

DRO Area:4.943892E+08 DRO Amount: 15.30911
TEH Area:5.242398E+08 TEH Amount: 16.23346

Batch ID: 162703



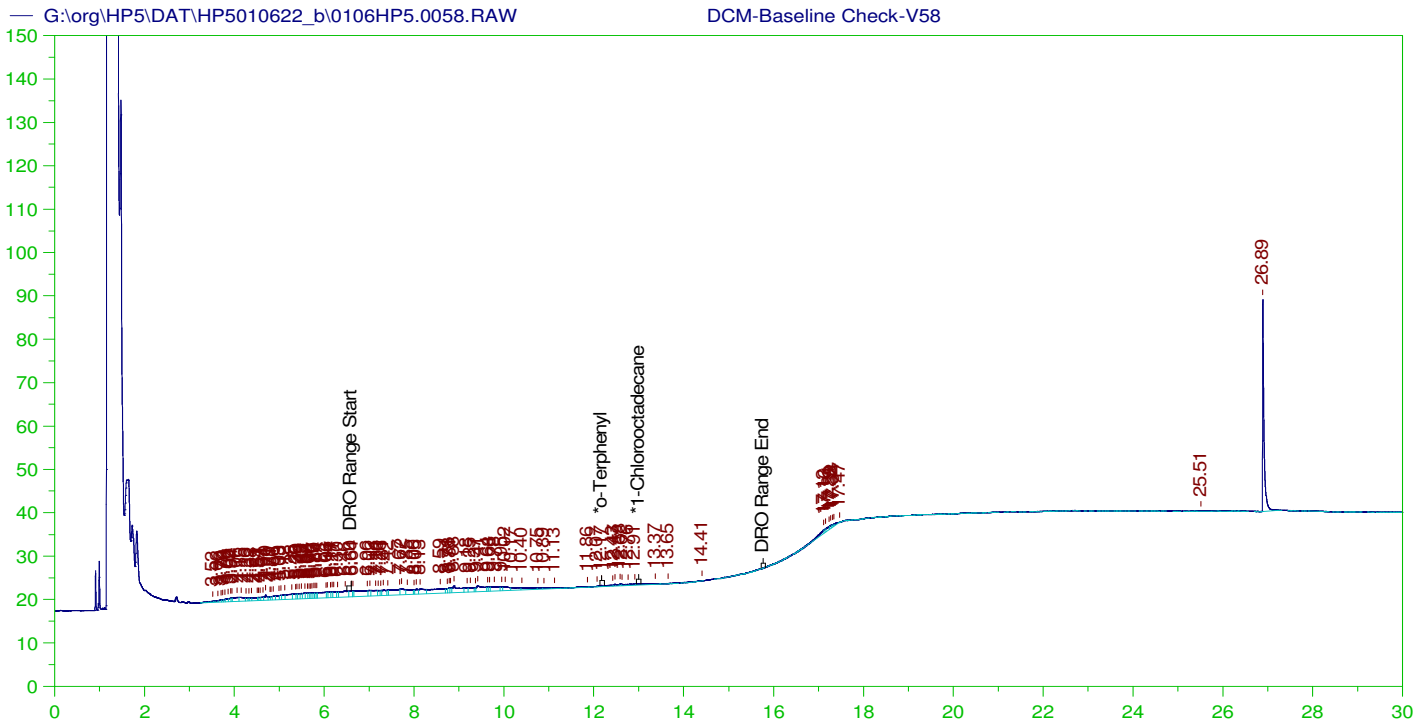
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010096-001DMS ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0057.RAW
Date & Time Acquired: 1/8/2022 12:39:06 AM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.162	.194	.227	117.15	-
*1-Chlorooctadecane	13.011	.194	.065	33.35	-

DRO Area:2.282332E+08 DRO Amount: 7.067403
TEH Area:2.393832E+08 TEH Amount: 7.412669



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V58
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0058.RAW
Date & Time Acquired: 1/8/2022 1:22:51 AM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

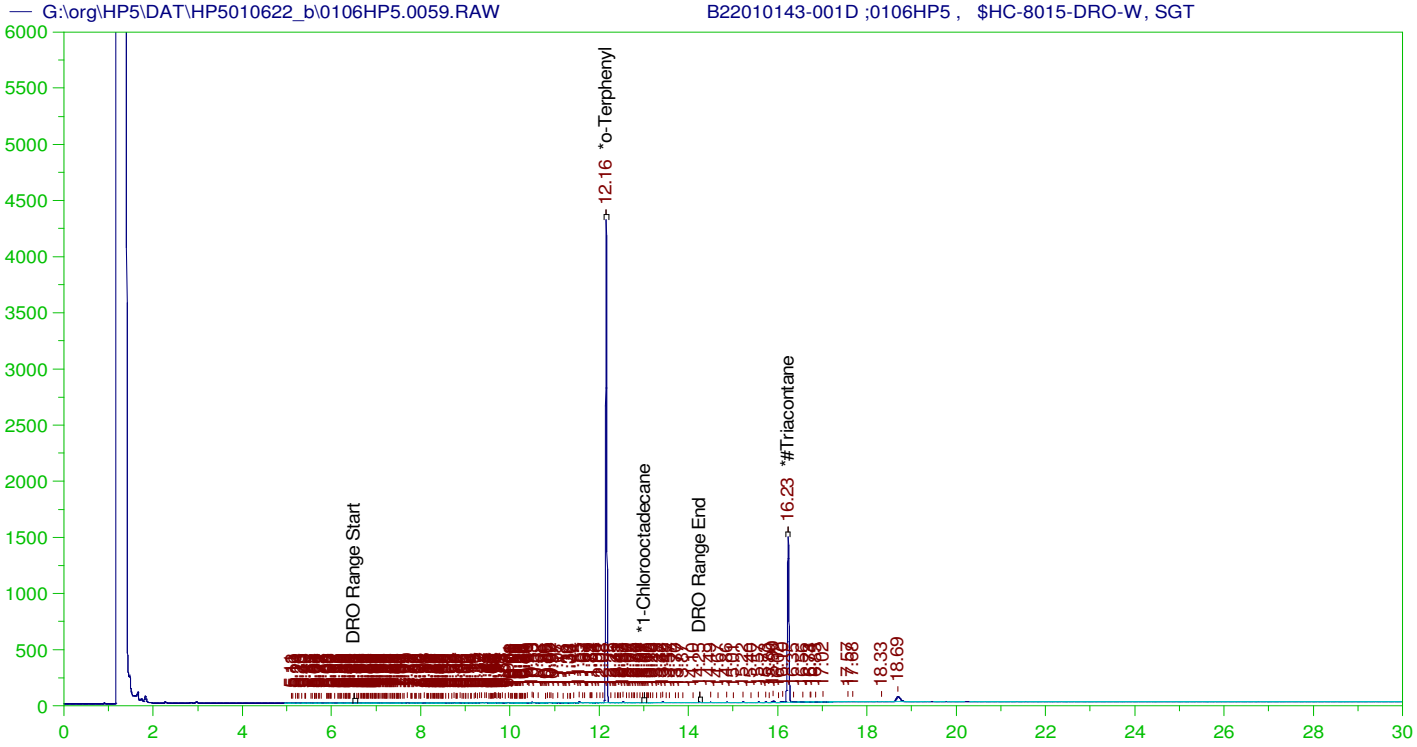
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.166	200.	.039	.02	-
*1-Chlorooctadecane	29.946	200.	.	.	-

DRO Area:266363.8 DRO Amount: 8.495588
TEH Area:574679.6 TEH Amount: 18.32922

ERH2299 (OWDFMW04A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0059.RAW B22010143-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010143-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0059.RAW
Date & Time Acquired: 1/8/2022 2:06:36 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

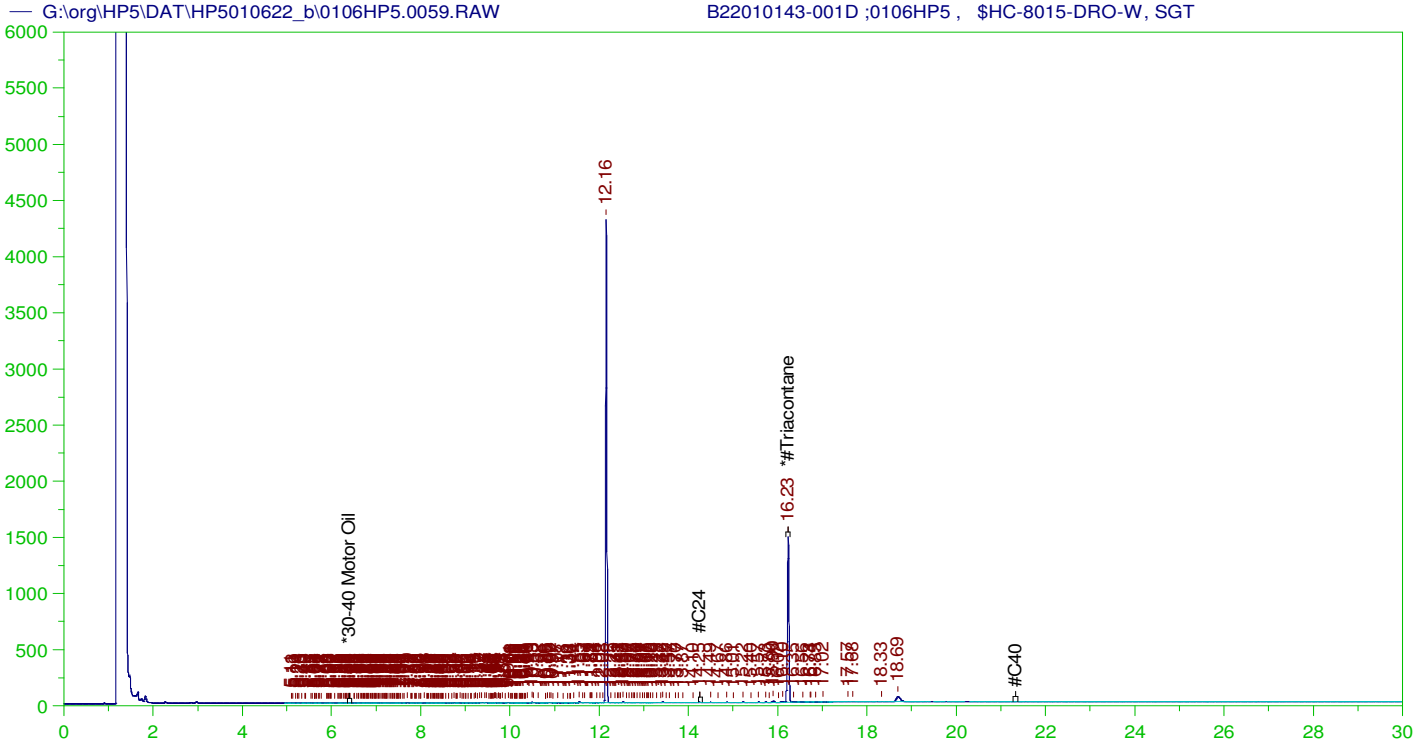
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.19	.213	111.65	-
*1-Chlorooctadecane	13.008	.19	.	.04	-
*#Triacontane	16.23	.19	.124	64.97	-

DRO Area:574491.1 DRO Amount: 1.745068E-02
TEH Area:1151953 TEH Amount: 0.0349916

ERH2299 (OWDFMW04A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0059.RAW B22010143-001D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010143-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0059.RAW
Date & Time Acquired: 1/8/2022 2:06:36 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

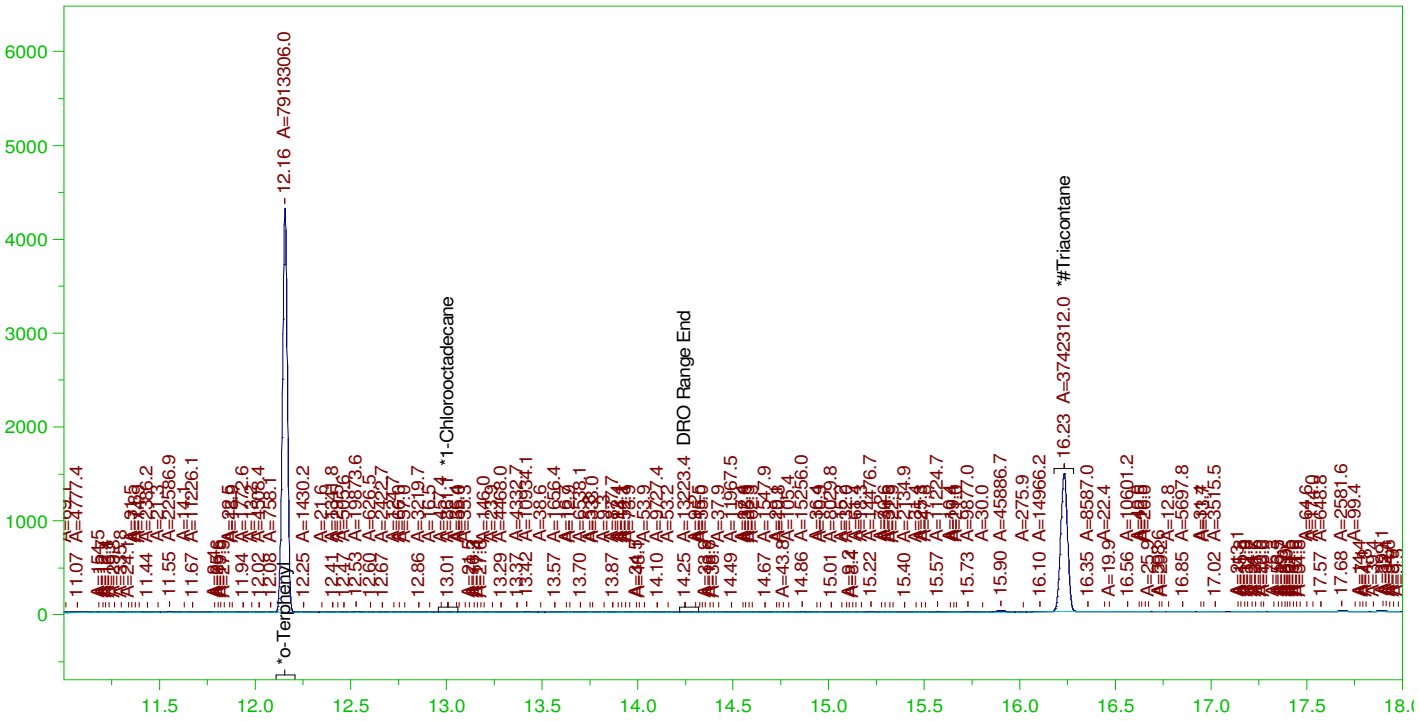
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.23	.476	.124	25.99	-

RRO Area:506962.9 RRO AMOUNT: 1.691594E-02

ERH2299 (OWDFMW04A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0059.RAW B22010143-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010143-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0059.RAW
Date & Time Acquired: 1/8/2022 2:06:36 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

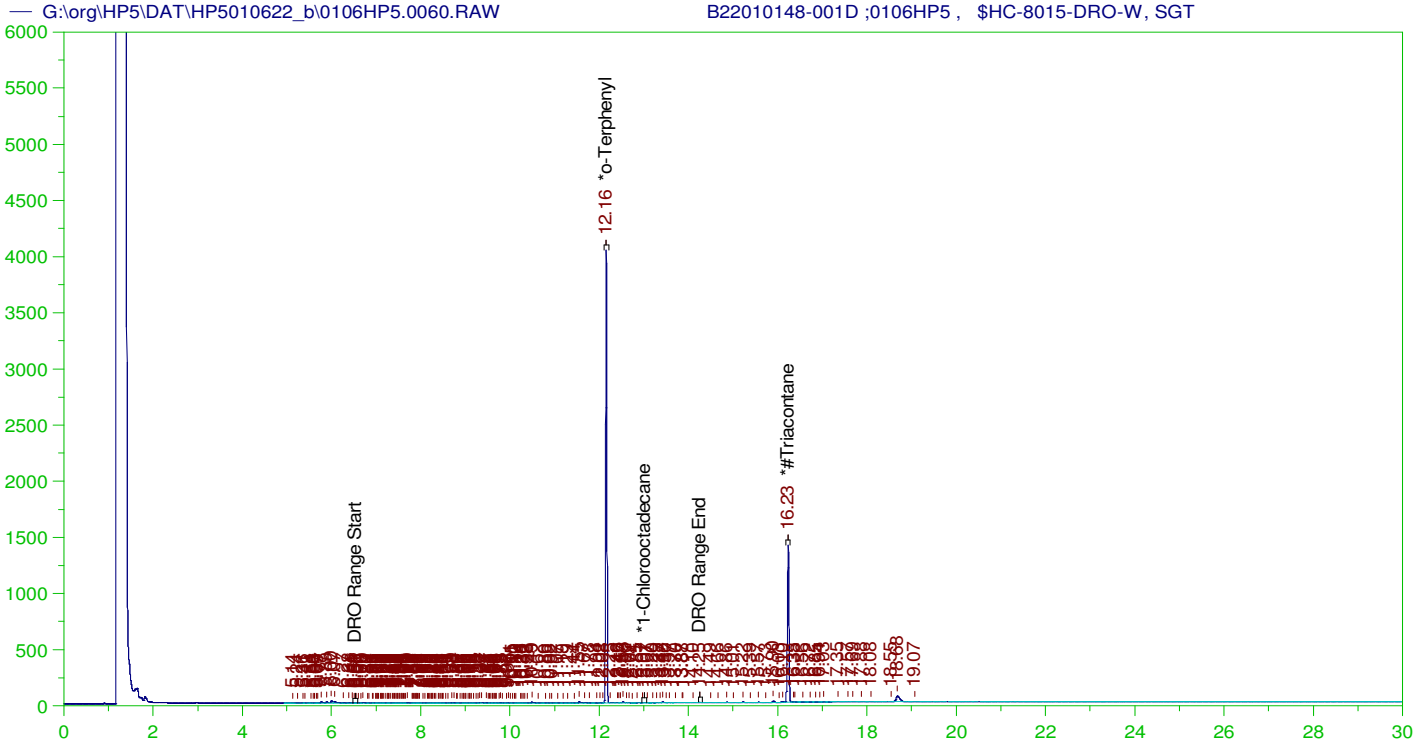
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.19	.212	111.43	-
*1-Chlorooctadecane	13.008	.19	.	.01	-
*#Triacontane	16.23	.19	.123	64.68	-

DRO Area:477823.8 DRO Amount: 1.451432E-02
TEH Area:1151221 TEH Amount: 3.496935E-02

ERH2305 (OWDFMW08A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0060.RAW B22010148-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010148-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0060.RAW
Date & Time Acquired: 1/8/2022 2:50:20 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

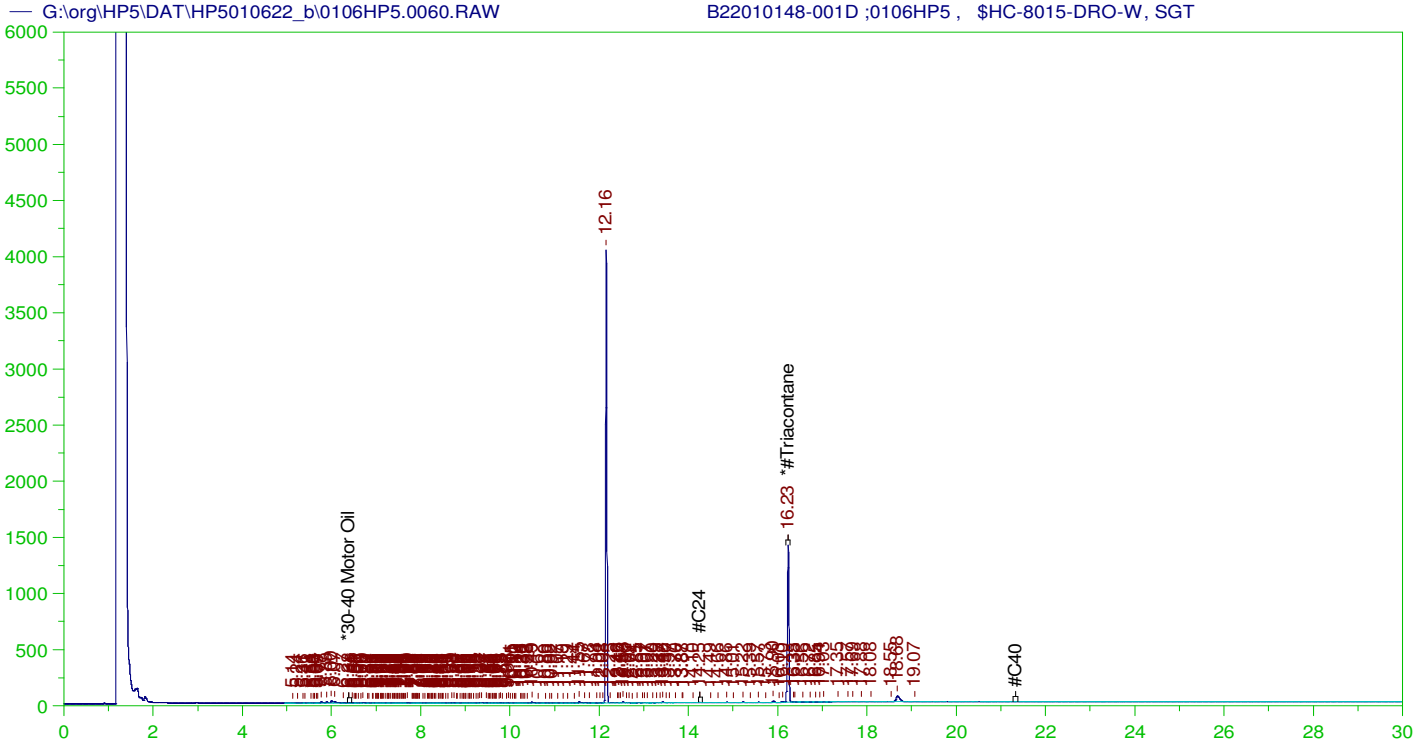
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.192	.204	106.08	-
*1-Chlorooctadecane	13.007	.192	.03		-
*#Triacontane	16.23	.192	.118	61.18	-

DRO Area:501596.6 DRO Amount: 1.538294E-02
TEH Area:1305977 TEH Amount: 4.005166E-02

ERH2305 (OWDFMW08A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0060.RAW B22010148-001D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010148-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0060.RAW
Date & Time Acquired: 1/8/2022 2:50:20 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

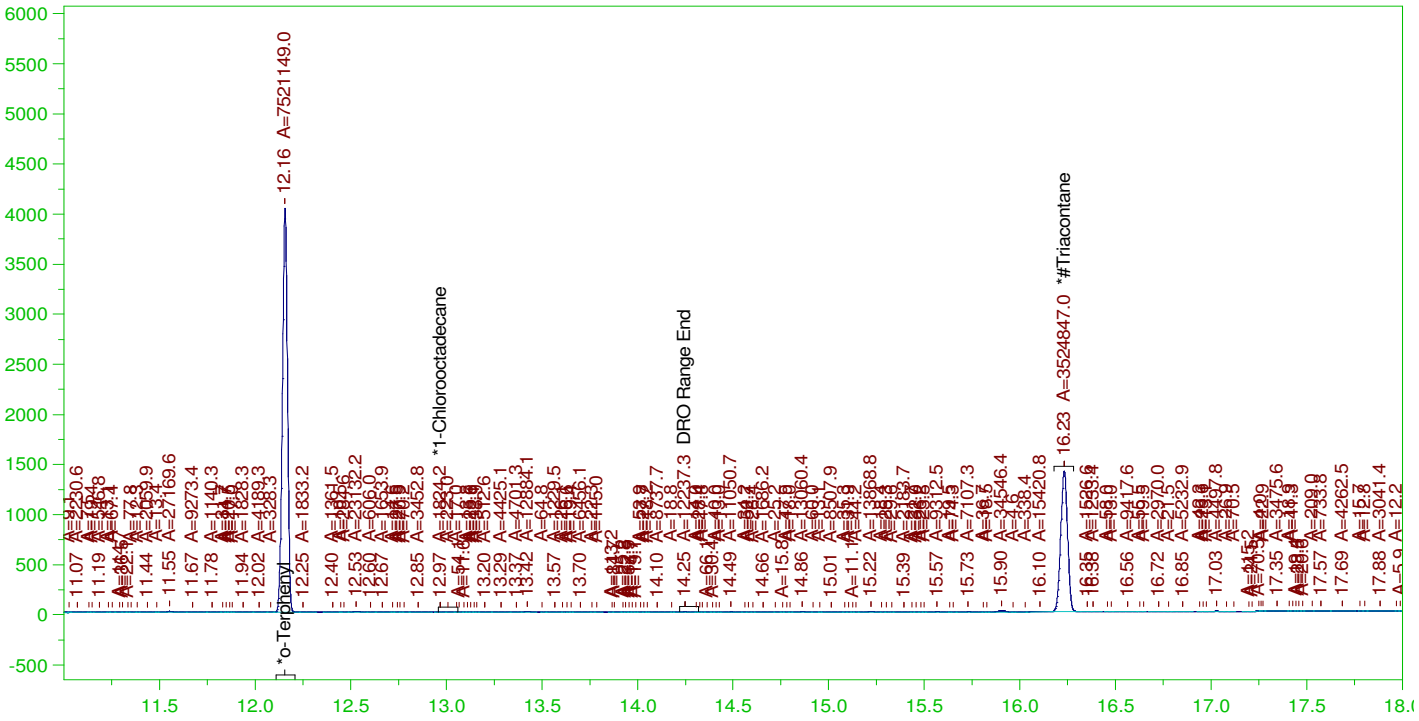
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.23	.481	.118	24.47	-

RRO Area:503804.6 RRO AMOUNT: 0.0169722

ERH2305 (OWDFMW08A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0060.RAW B22010148-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010148-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0060.RAW
Date & Time Acquired: 1/8/2022 2:50:20 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

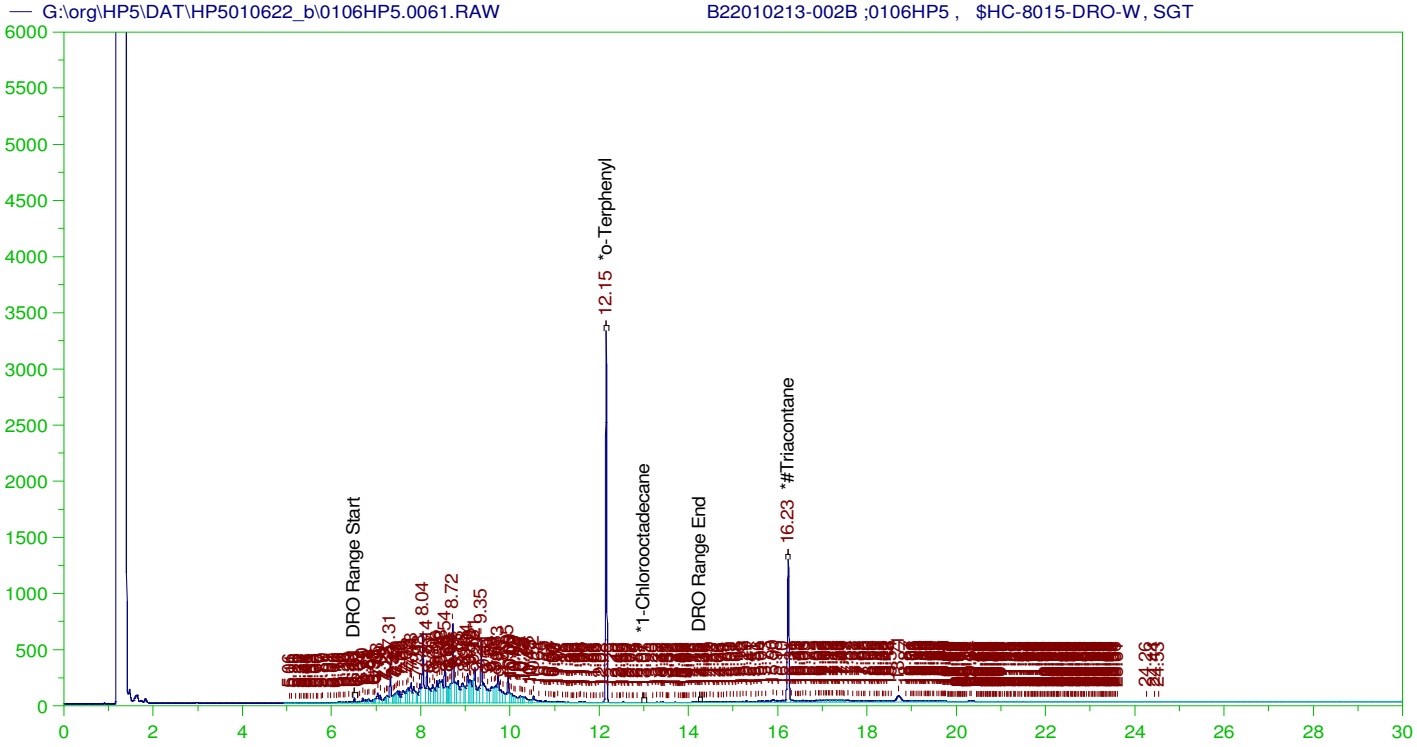
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.192	.204	105.9	-
*1-Chlorooctadecane	12.97	.192	. .03		-
*#Triacontane	16.23	.192	.117	60.92	-

DRO Area:493373.1 DRO Amount: 1.513075E-02
TEH Area:1388867 TEH Amount: 4.259373E-02

ERH2333 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0061.RAW B22010213-002B ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-002B ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0061.RAW
Date & Time Acquired: 1/8/2022 3:34:03 AM
Method File: G:\Org\HP5\Methods\DR_8015-010661-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

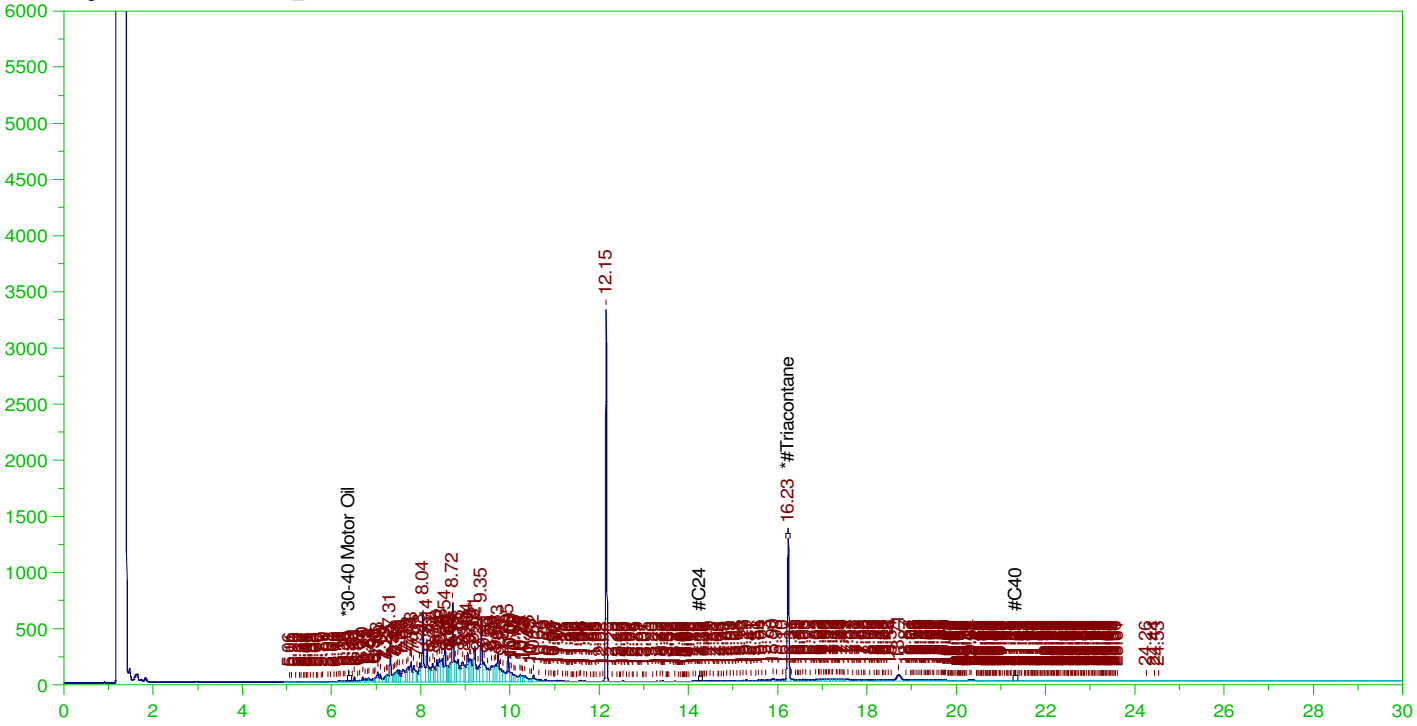
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.155	.2	.174	86.89	-
*1-Chlorooctadecane	13.006	.2	.	.02	-
*#Triacontane	16.23	.2	.115	57.7	-

DRO Area:3.010532E+07 DRO Amount: 0.9601996
TEH Area:3.502552E+07 TEH Amount: 1.117128

ERH2333 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0061.RAW B22010213-002B ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010213-002B ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0061.RAW
Date & Time Acquired: 1/8/2022 3:34:03 AM
Method File: G:\Org\HP5\Methods\DR_OROS-010661-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

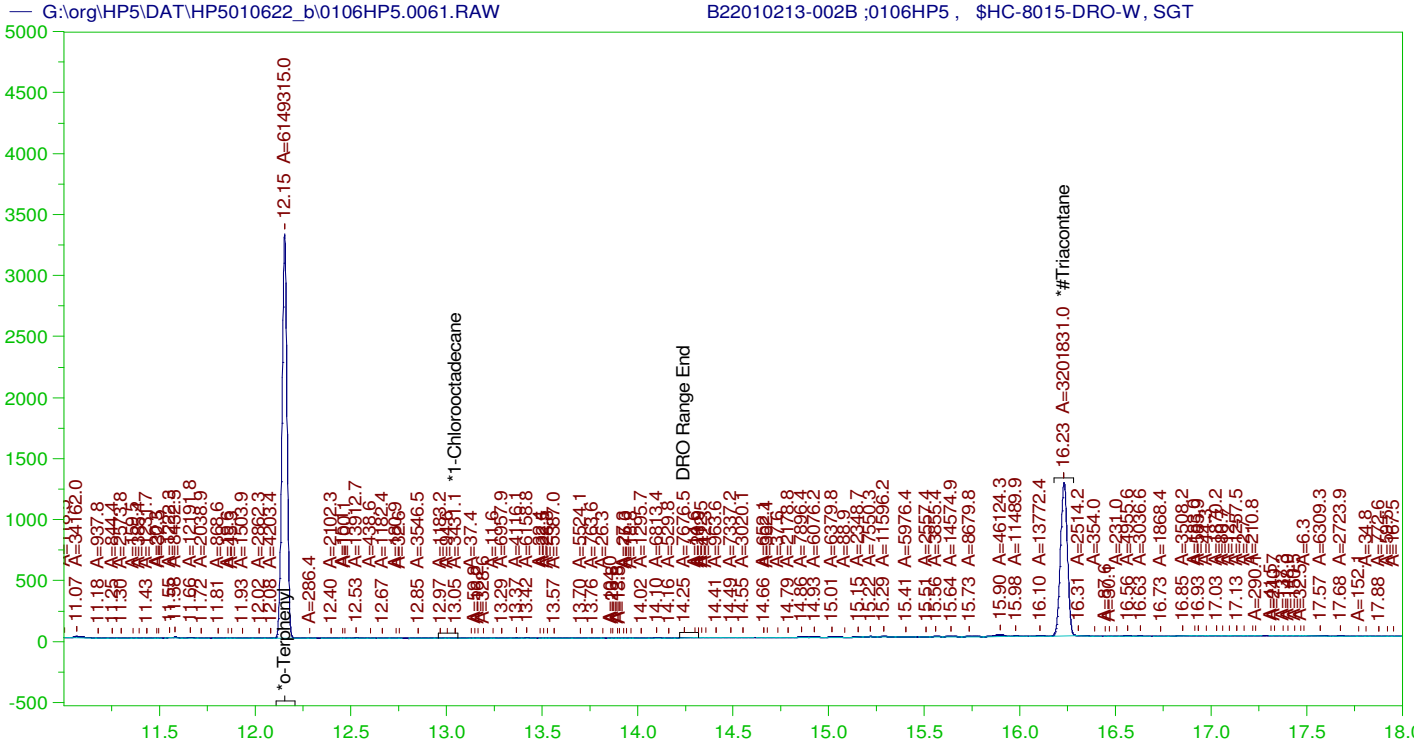
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.23	.5	.115	23.08	-

RRO Area:4376976 RRO AMOUNT: 0.1533499

ERH2333 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0061.RAW B22010213-002B ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-002B ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0061.RAW
Date & Time Acquired: 1/8/2022 3:34:03 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

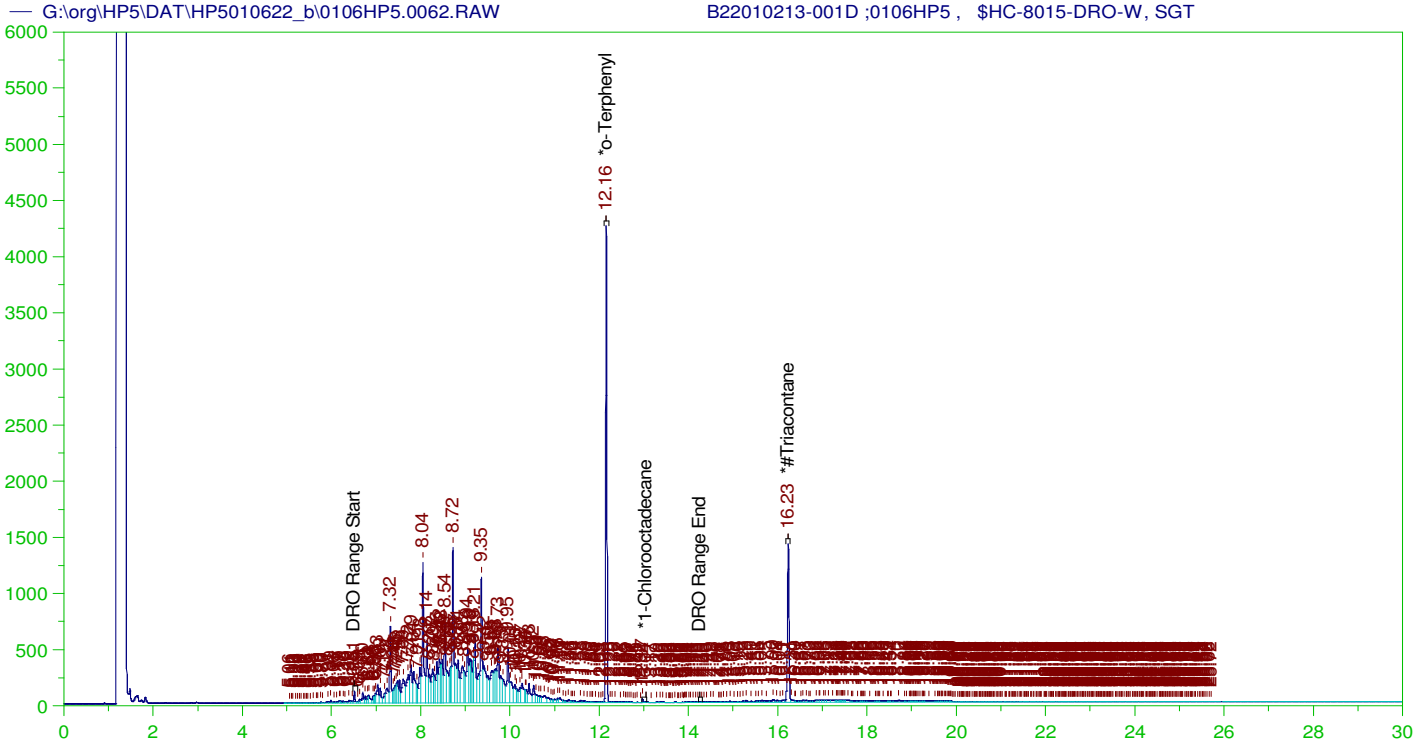
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.155	.2	.173	86.59	-
*1-Chlorooctadecane	13.047	.2	.	.05	-
*#Triacontane	16.23	.2	.111	55.34	-

DRO Area:2.758247E+07 DRO Amount: 0.879734
TEH Area:2.833819E+07 TEH Amount: 0.9038374

ERH2332 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0062.RAW B22010213-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0062.RAW
Date & Time Acquired: 1/8/2022 4:17:47 AM
Method File: G:\Org\HP5\Methods\DR_8015-010662-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

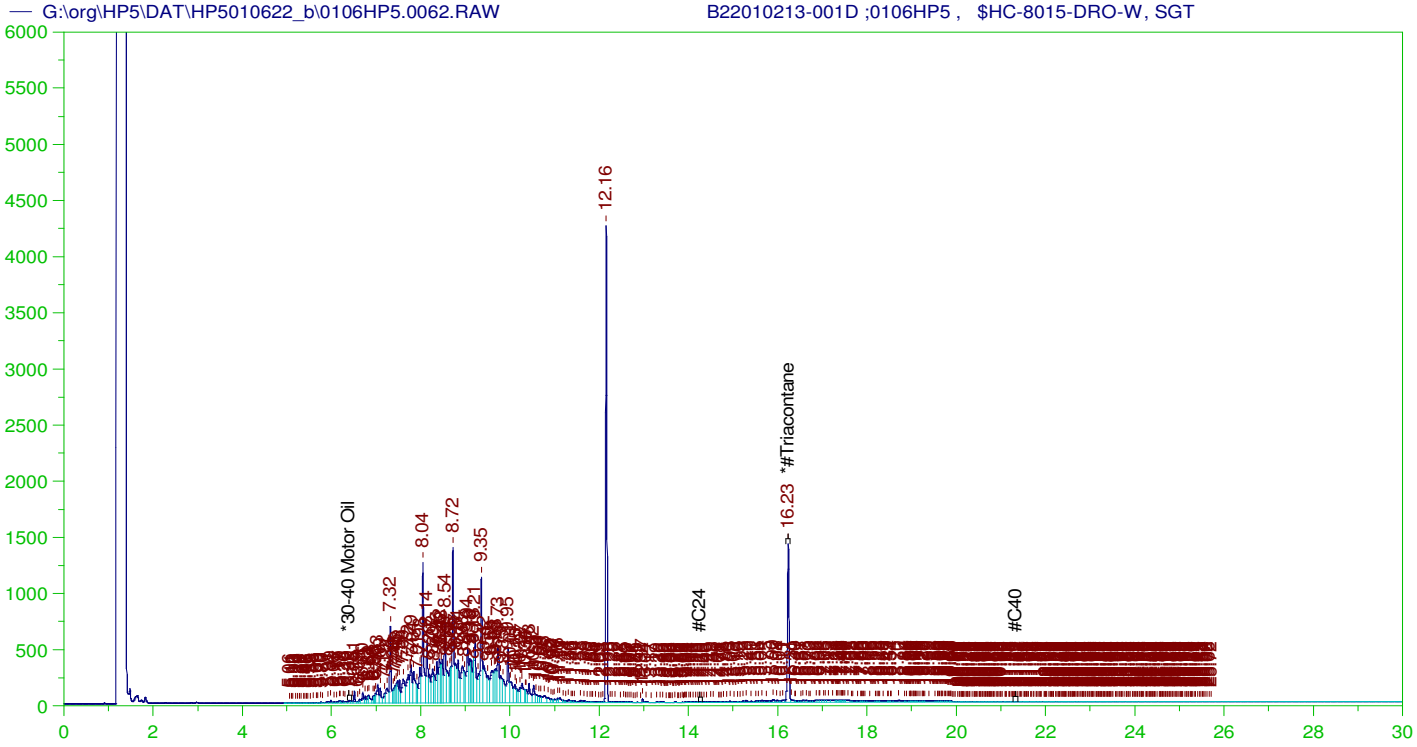
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.194	.218	112.14	-
*1-Chlorooctadecane	13.043	.194	.22		-
*#Triacontane	16.231	.194	.124	63.64	-

DRO Area:5.932844E+07 DRO Amount: 1.837147
TEH Area:6.485455E+07 TEH Amount: 2.008267

ERH2332 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0062.RAW B22010213-001D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010213-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0062.RAW
Date & Time Acquired: 1/8/2022 4:17:47 AM
Method File: G:\Org\HP5\Methods\DR_OROS-010662-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

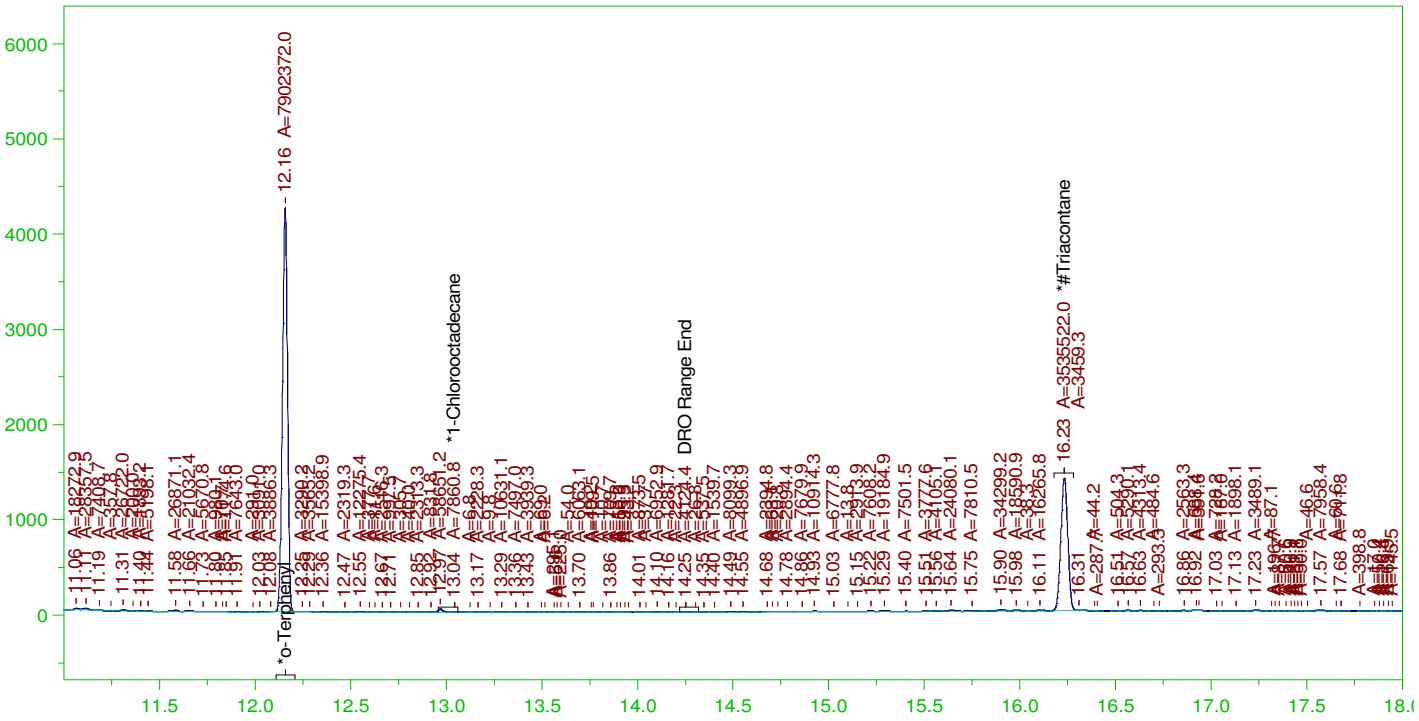
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.231	.485	.124	25.45	-

RRO Area:4304149 RRO AMOUNT: 0.1464062

ERH2332 (RHMW2254-01 Bailer) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0062.RAW B22010213-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0062.RAW
Date & Time Acquired: 1/8/2022 4:17:47 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

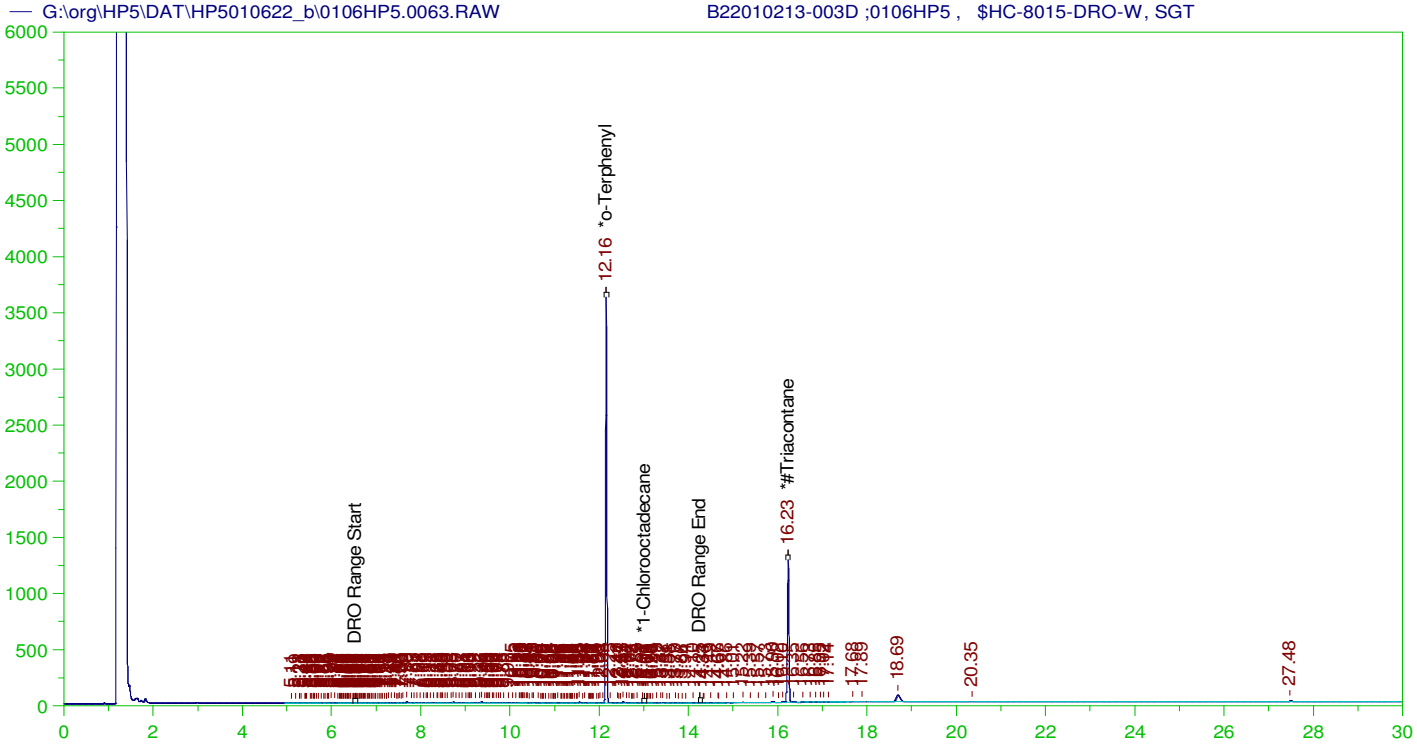
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.157	.194	.216	111.27	-
*1-Chlorooctadecane	13.043	.194	. .11		-
*#Triacontane	16.231	.194	.119	61.1	-

DRO Area:5.018532E+07 DRO Amount: 1.554024
TEH Area:5.085975E+07 TEH Amount: 1.574908

ERH2334 (RHMW2254-01 LF) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0063.RAW B22010213-003D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-003D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0063.RAW
Date & Time Acquired: 1/8/2022 5:01:27 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

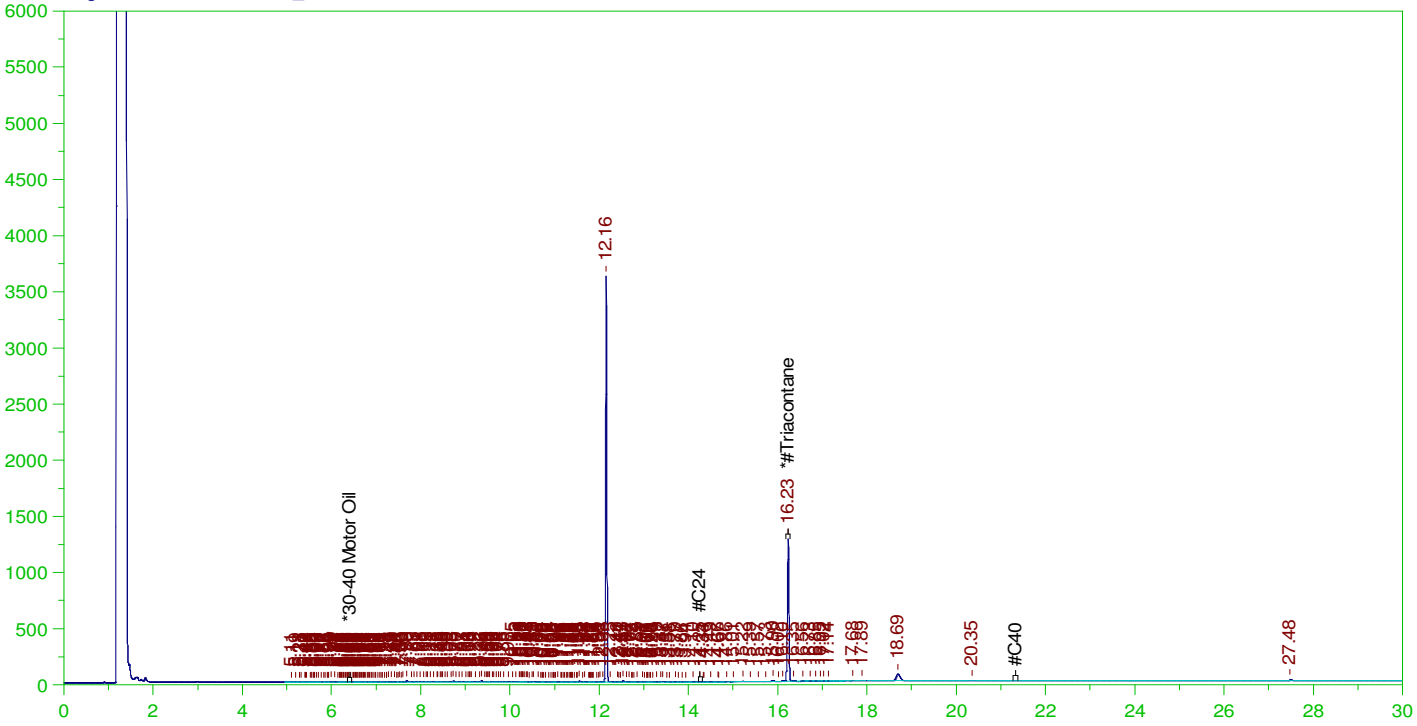
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.155	.196	.184	93.62	-
*1-Chlorooctadecane	13.011	.196	. .04		-
*#Triacontane	16.23	.196	.109	55.43	-

DRO Area:1151808 DRO Amount: 3.601623E-02
TEH Area:1837035 TEH Amount: 0.0574428

ERH2334 (RHMW2254-01 LF) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0063.RAW B22010213-003D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010213-003D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0063.RAW
Date & Time Acquired: 1/8/2022 5:01:27 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

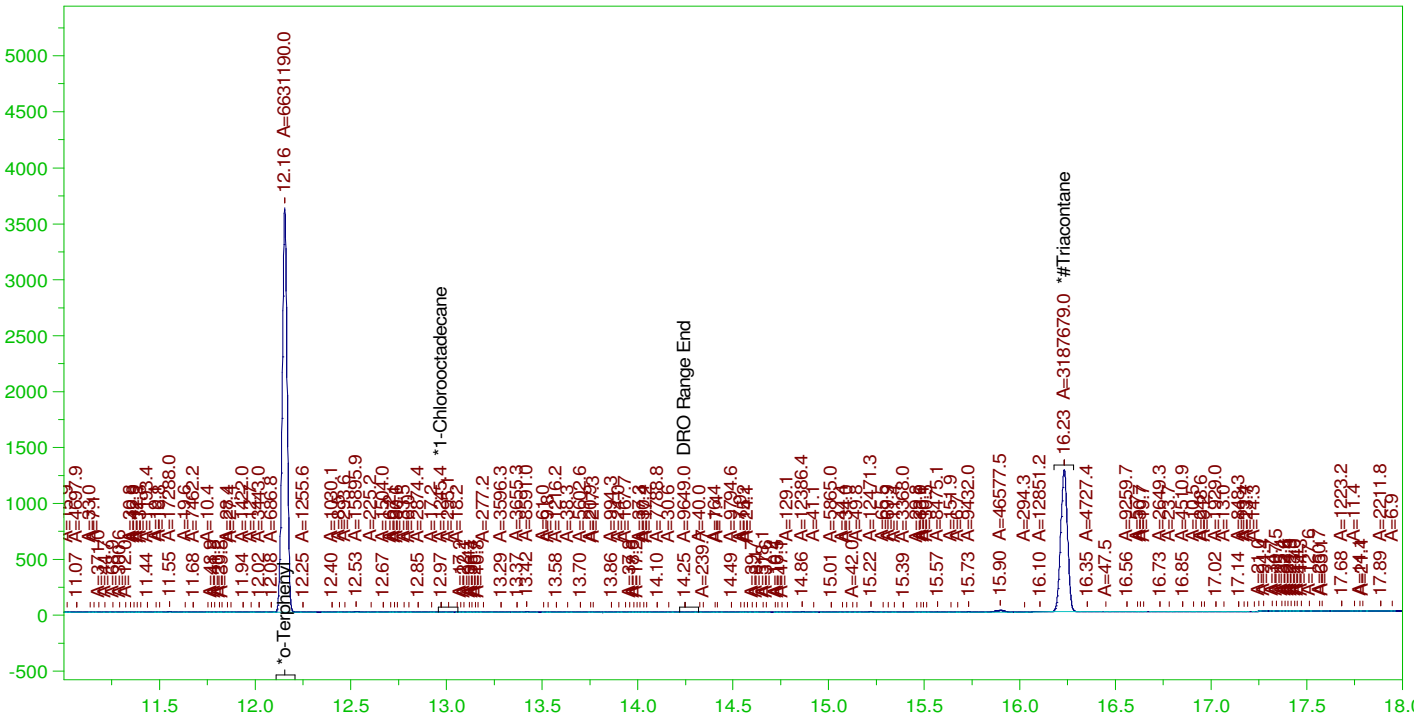
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.23	.49	.109	22.17	-

RRO Area:577263.1 RRO AMOUNT: 1.982819E-02

ERH2334 (RHMW2254-01 LF) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0063.RAW B22010213-003D ;0106HP5 , $HC-8015-DRO-W, SGT



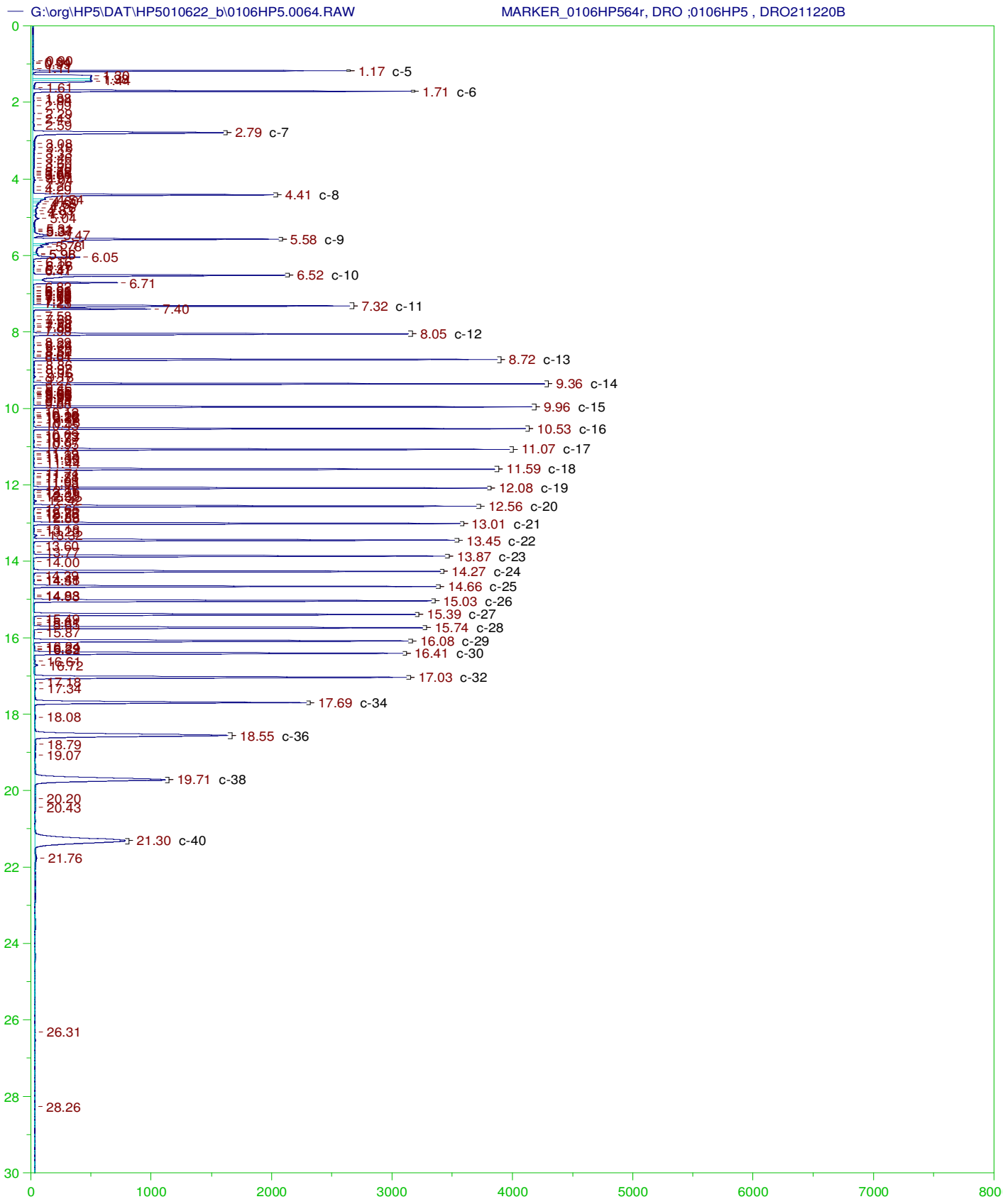
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010213-003D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0063.RAW
Date & Time Acquired: 1/8/2022 5:01:27 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.155	.196	.183	93.37	-
*1-Chlorooctadecane	12.972	.196	.	.02	-
*#Triacontane	16.23	.196	.108	55.09	-

DRO Area:927256.5 DRO Amount: 2.899466E-02
TEH Area:1712359 TEH Amount: 5.354427E-02



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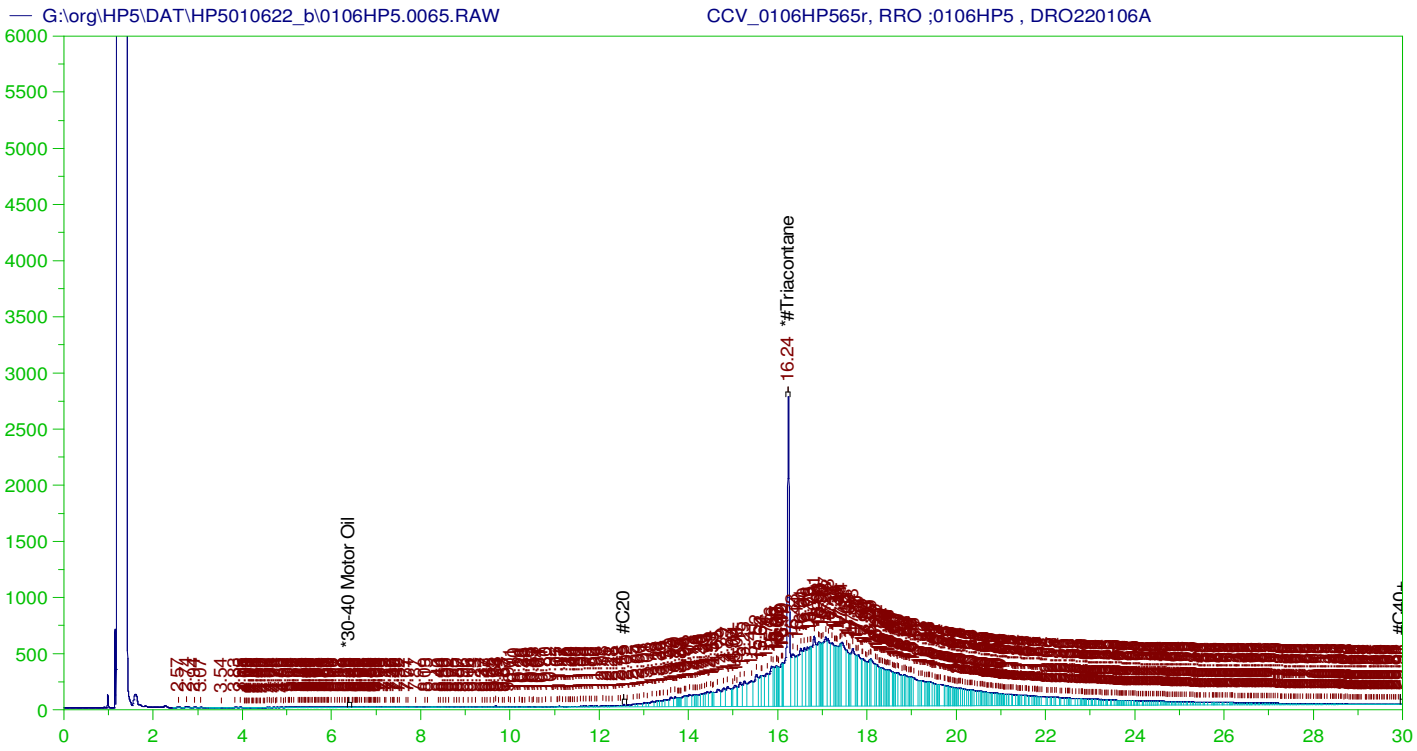


RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP565r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0065.RAW
Date & Time Acquired: 1/8/2022 6:28:41 AM
Method File: G:\Org\HP5\Methods\DC_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.236	500.	350.448	70.09	-

~~RRO~~ TEH (Oil Range) Area:1.395833E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 4890.382

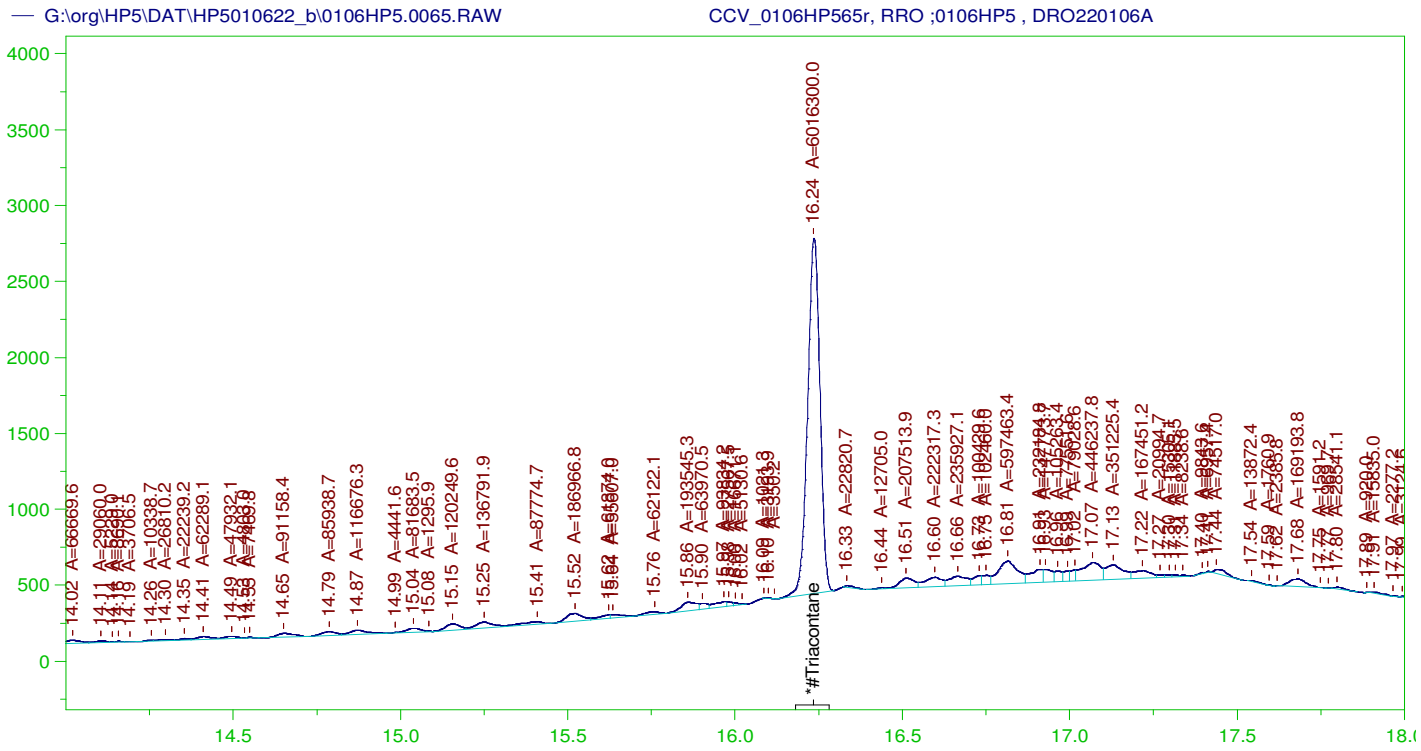
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0065.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.236	200.	350.448	175.22	75-125

AMN 01/31/2022

G:\org\HP5\dat\HP5010622_b\Review\065_CCV_0106HP565r_DC_ORO-AN-L%.xls



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP565r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0065.RAW
Date & Time Acquired: 1/8/2022 6:28:41 AM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

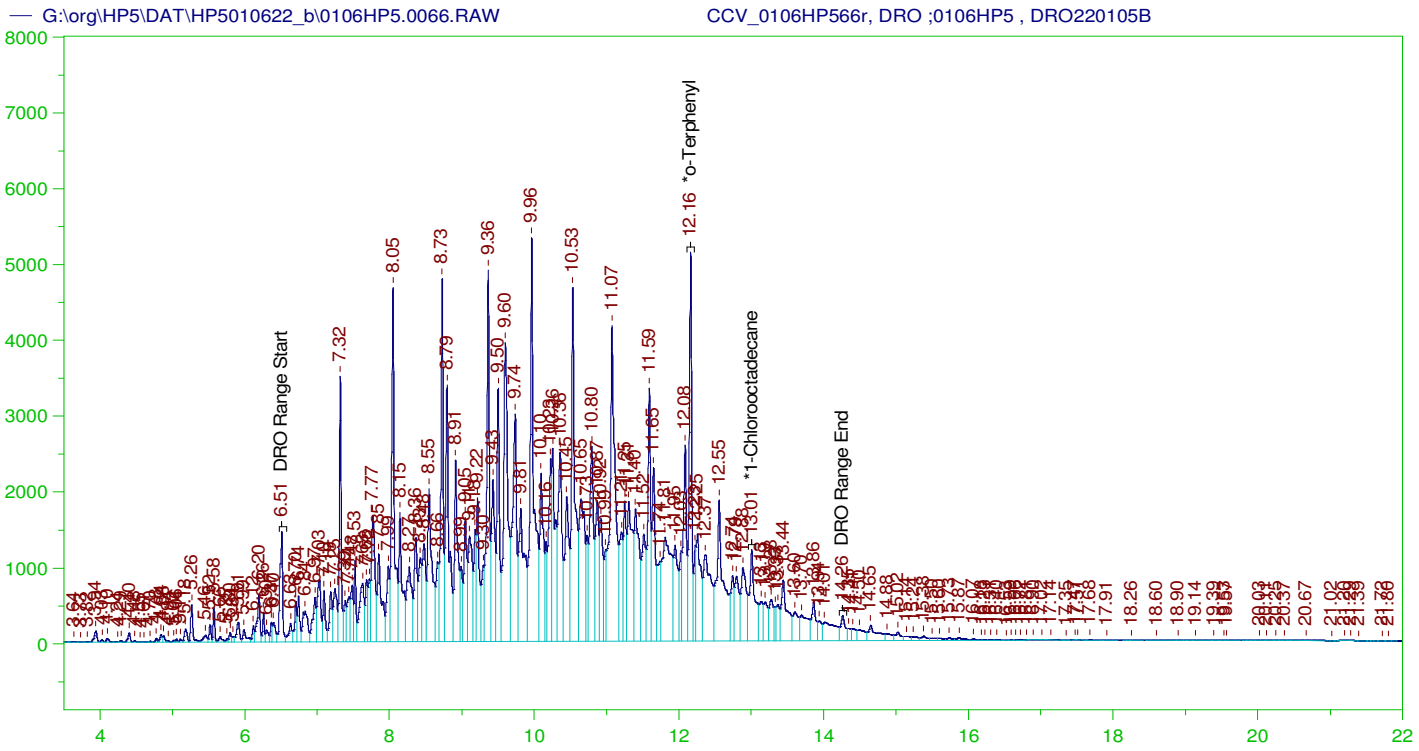
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.236	500.	207.96	41.59	-

RRO Area:5979815 RRO AMOUNT: 209.5063

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0065.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.236	200.	207.96	103.98	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP566r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0066.RAW
Date & Time Acquired: 1/8/2022 7:12:23 AM
Method File: G:\Org\HP5\Methods\DC_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

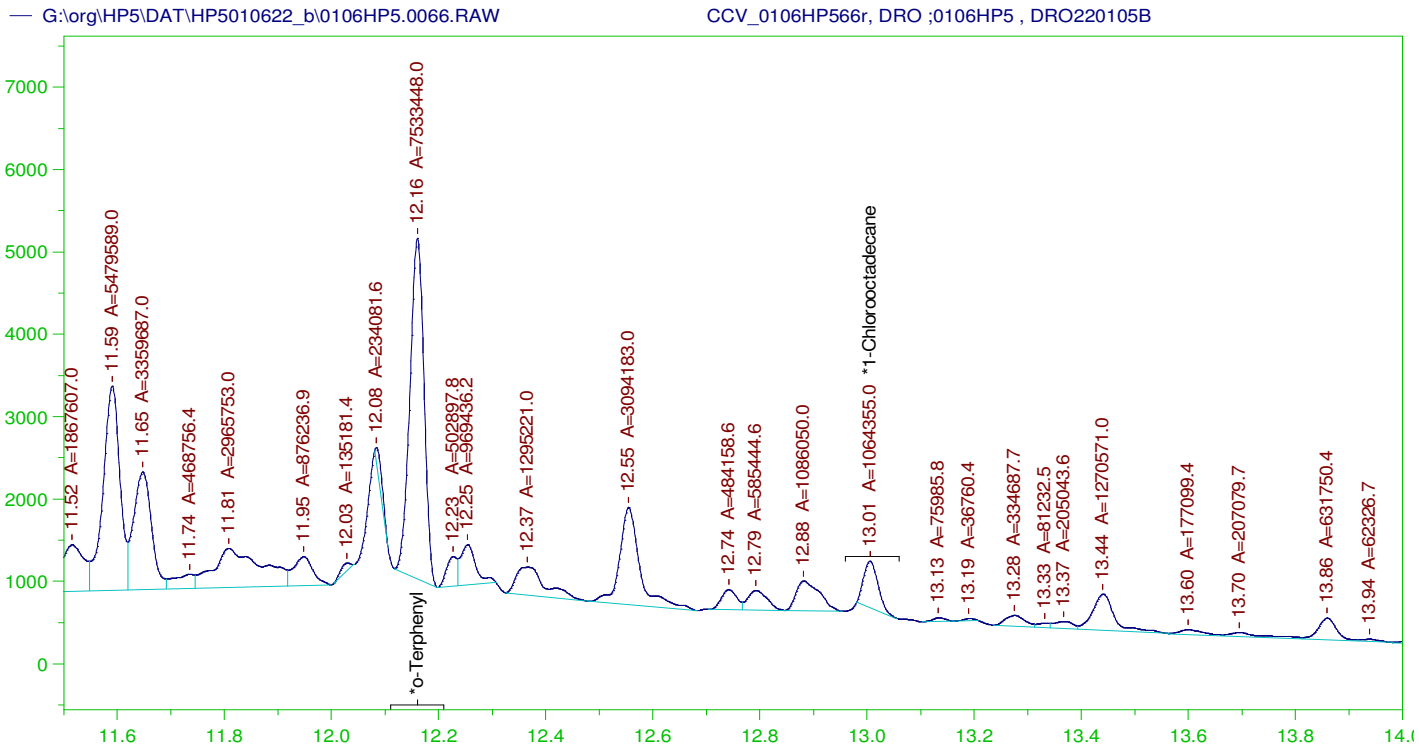
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.16	200.	348.879	174.44	-
*1-Chlorooctadecane	13.006	200.	173.865	86.93	-

DRO Area:5.022255E+08 DRO Amount: 16018.32
TEH Area:5.207028E+08 TEH Amount: 16607.65

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0066.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	16607.65	110.72	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.16	200.	348.879	174.44	85-115
*1-Chlorooctadecane	13.006	200.	173.865	86.93	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: CCV_0106HP566r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0066.RAW
Date & Time Acquired: 1/8/2022 7:12:23 AM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

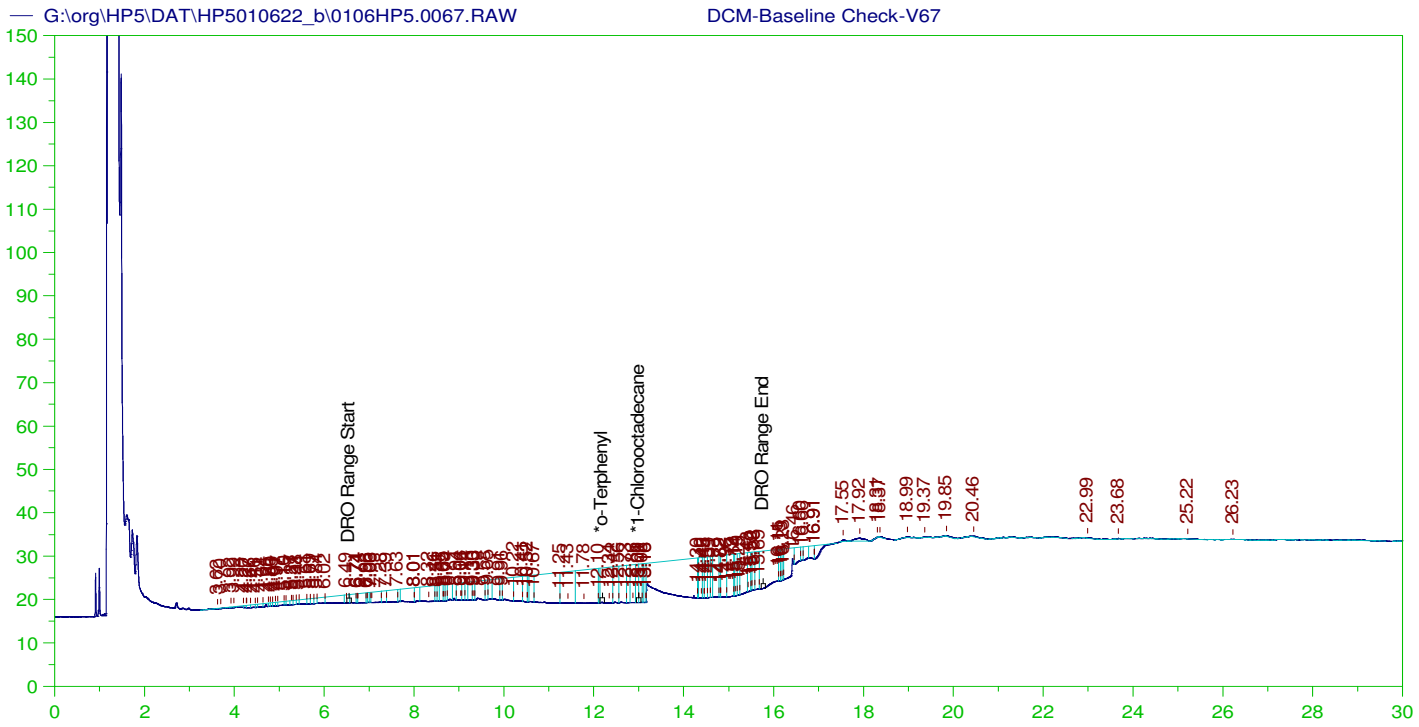
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.16	200.	212.155	106.08	-
*1-Chlorooctadecane	13.006	200.	29.974	14.99	-

DRO Area:2.781333E+08 DRO Amount: 8870.973
TEH Area:2.892703E+08 TEH Amount: 9226.184

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0066.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	9226.18	61.51	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.16	200.	212.155	106.08	85-115
*1-Chlorooctadecane	13.006	200.	29.974	14.99	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: DCM-Baseline Check-V67
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0067.RAW
Date & Time Acquired: 1/8/2022 7:55:47 AM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

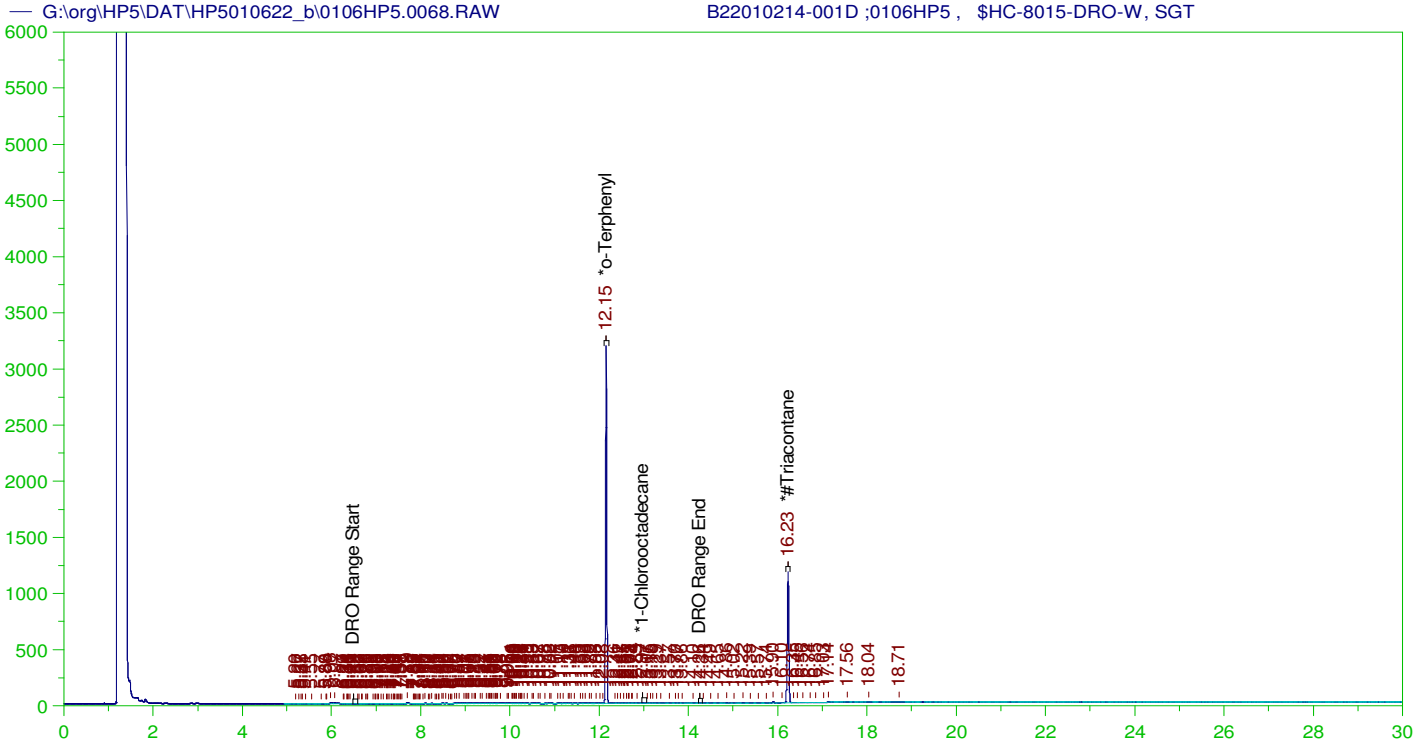
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	29.982	200.	.	.	-
*1-Chlorooctadecane	13.004	200.	1.118	.56	-

DRO Area:3544393 DRO Amount: 113.0473
TEH Area:3984046 TEH Amount: 127.0699

ERH2321 (RHMW14 Zone3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0068.RAW B22010214-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010214-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0068.RAW
Date & Time Acquired: 1/8/2022 8:38:56 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

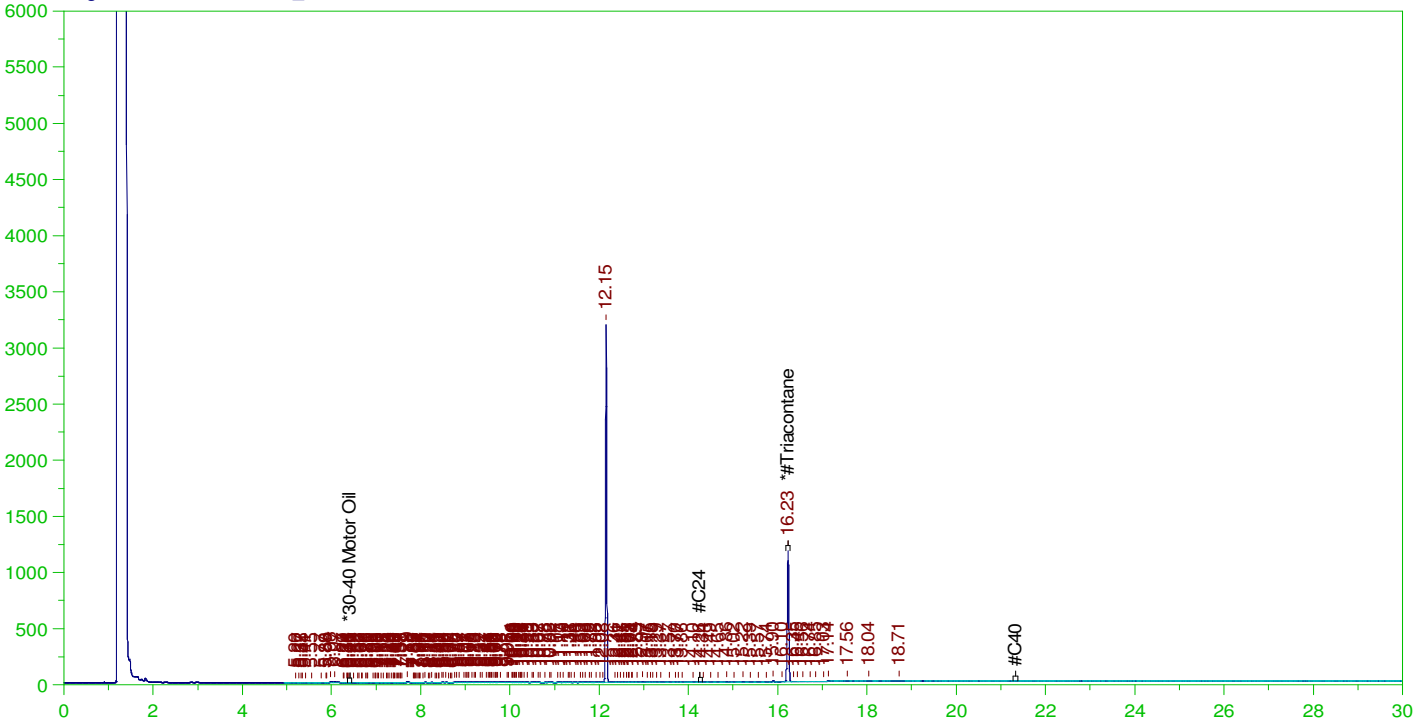
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.154	.19	.158	83.01	-
*1-Chlorooctadecane	12.971	.19	.	.25	-
*#Triacontane	16.228	.19	.098	51.5	-

DRO Area:346207.1 DRO Amount: 1.051635E-02
TEH Area:631783.2 TEH Amount: 1.919097E-02

ERH2321 (RHMW14 Zone3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0068.RAW B22010214-001D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010214-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0068.RAW
Date & Time Acquired: 1/8/2022 8:38:56 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

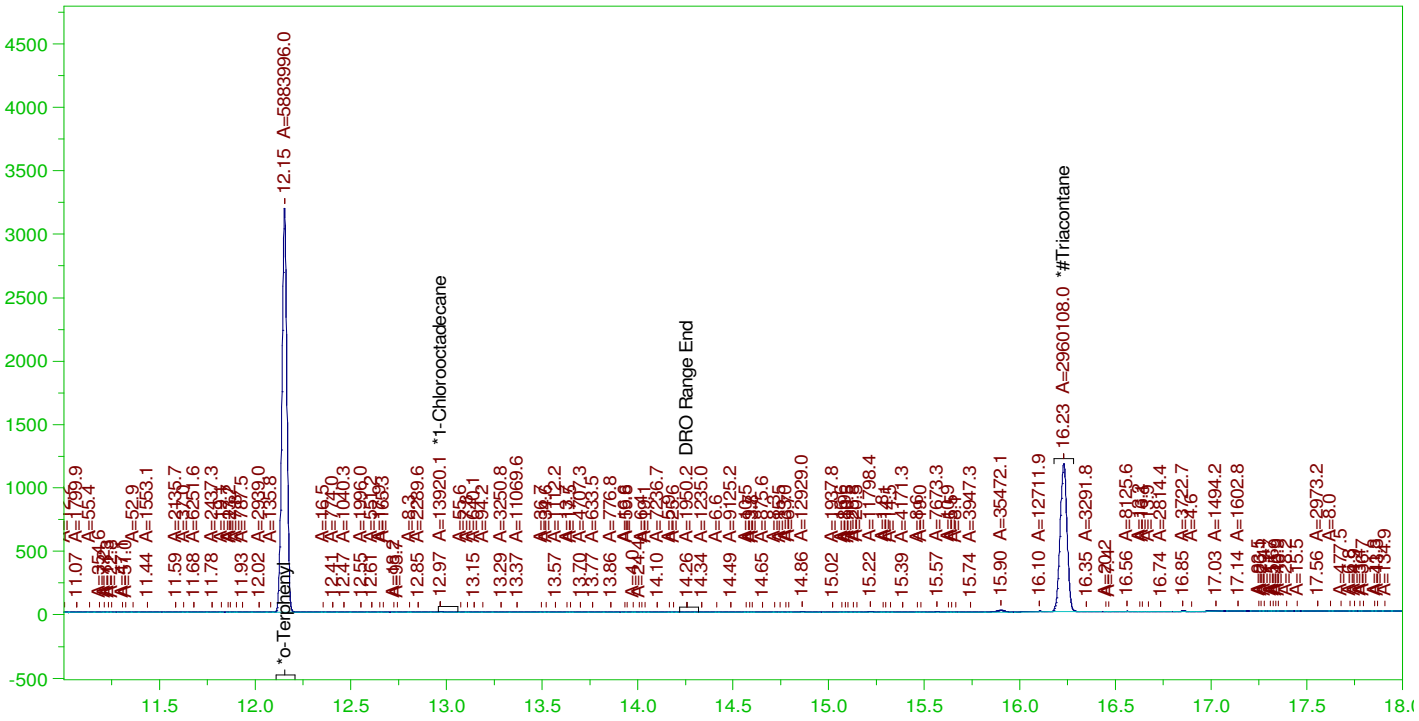
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.228	.476	.098	20.6	-

RRO Area:185227.1 RRO AMOUNT: 6.180513E-03

ERH2321 (RHMW14 Zone3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0068.RAW B22010214-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010214-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0068.RAW
Date & Time Acquired: 1/8/2022 8:38:56 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

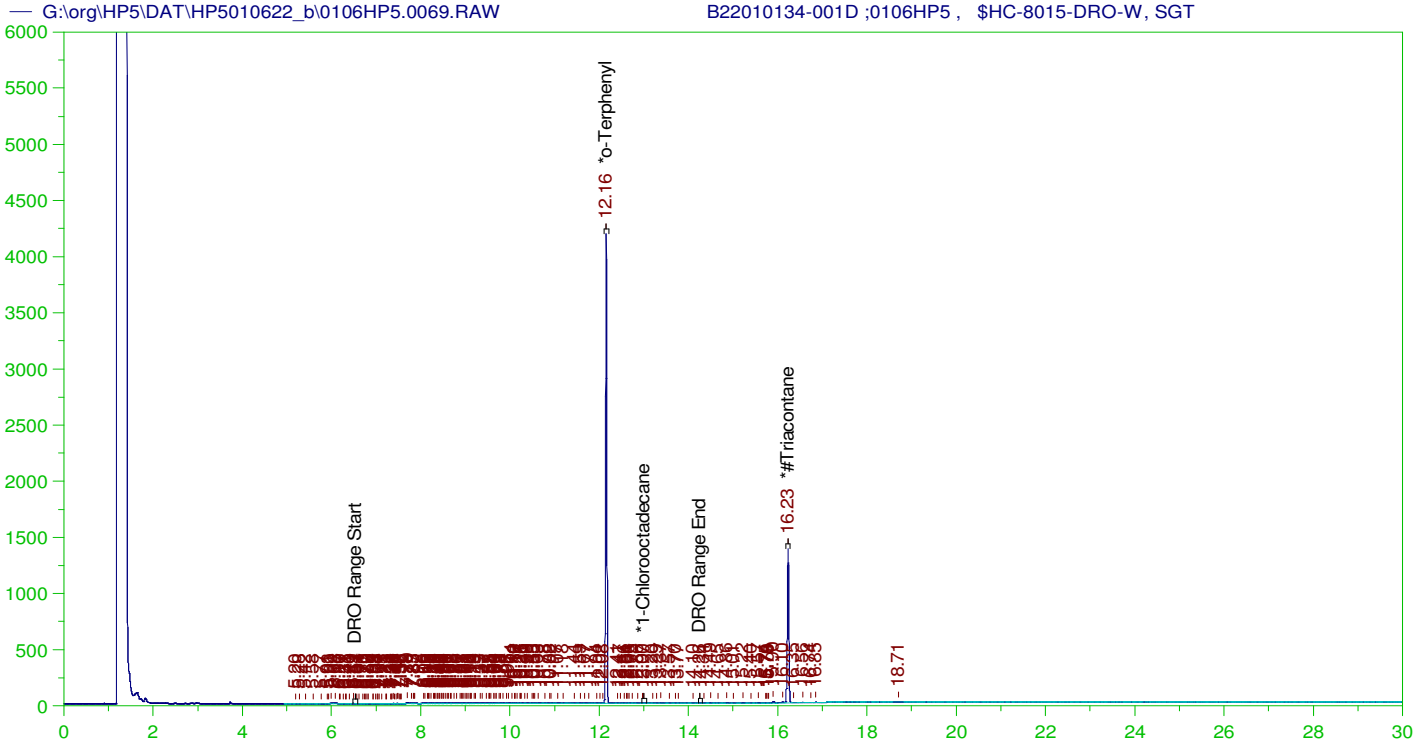
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.154	.19	.158	82.85	-
*1-Chlorooctadecane	12.971	.19	. .2		-
*#Triacontane	16.228	.19	.097	51.16	-

DRO Area:273846.1 DRO Amount: 8.318319E-03
TEH Area:559337.1 TEH Amount: 1.699036E-02

ERH2307 (RHMW13 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0069.RAW B22010134-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010134-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0069.RAW
Date & Time Acquired: 1/8/2022 9:22:23 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

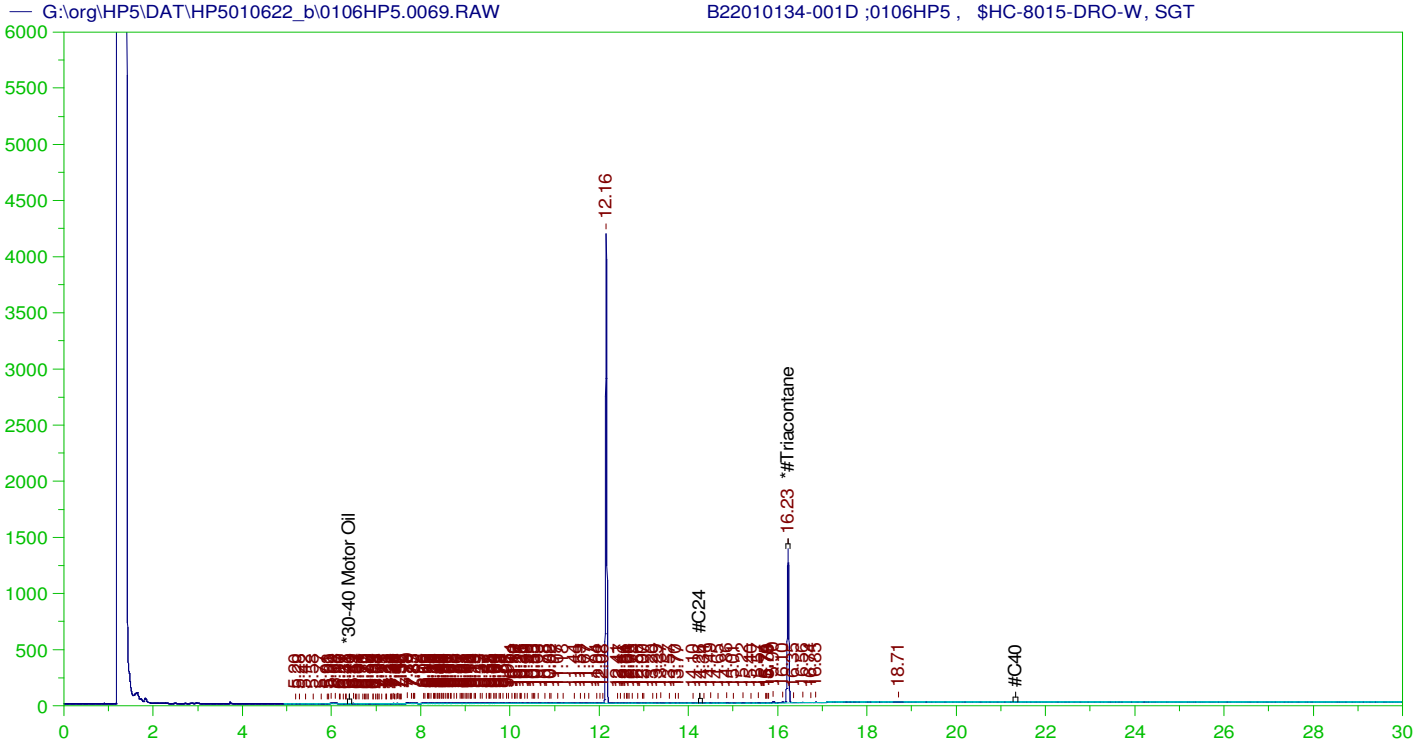
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.156	.192	.212	110.09	-
*1-Chlorooctadecane	13.004	.192	.02		-
*#Triacontane	16.228	.192	.115	59.77	-

DRO Area:343503.8 DRO Amount: 1.053456E-02
TEH Area:563228.3 TEH Amount: 1.727306E-02

ERH2307 (RHMW13 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0069.RAW B22010134-001D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010134-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0069.RAW
Date & Time Acquired: 1/8/2022 9:22:23 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

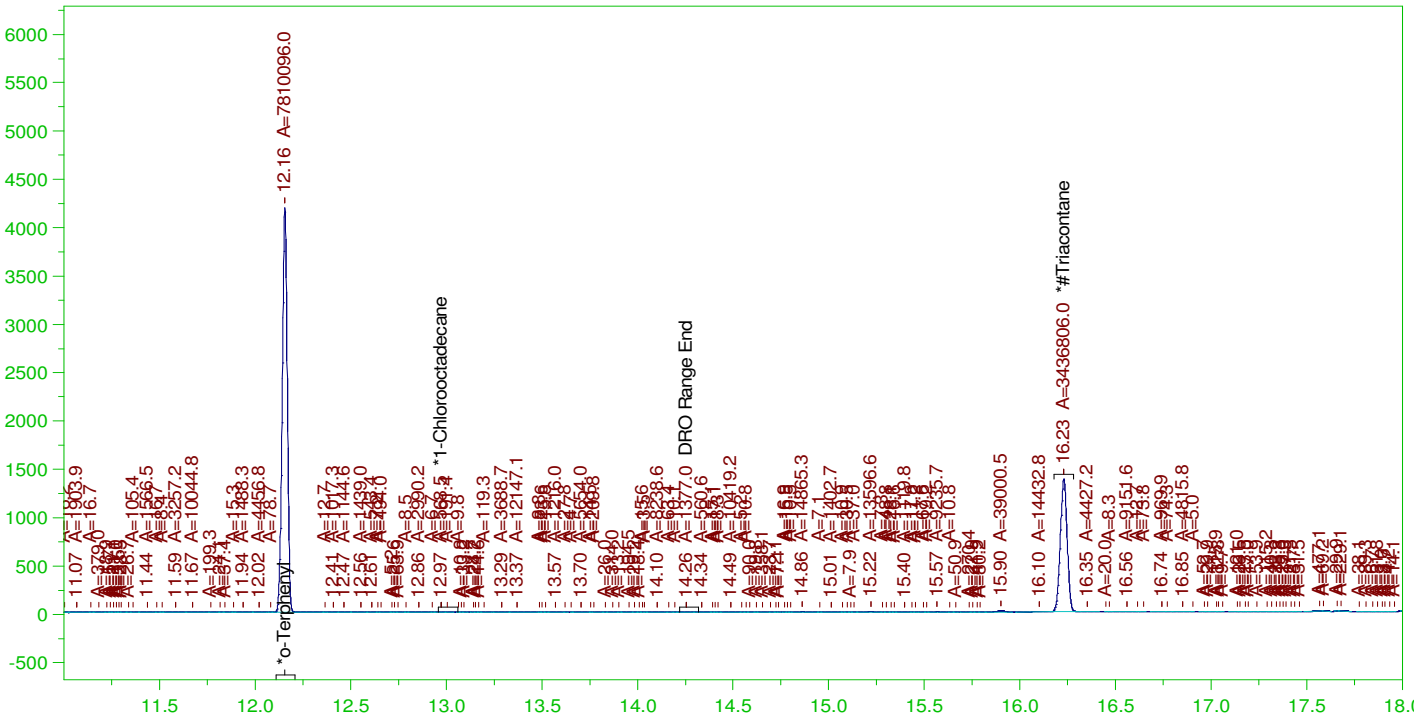
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.228	.481	.115	23.91	-

RRO Area:170016.7 RRO AMOUNT: 5.727534E-03

ERH2307 (RHMW13 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0069.RAW B22010134-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010134-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0069.RAW
Date & Time Acquired: 1/8/2022 9:22:23 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

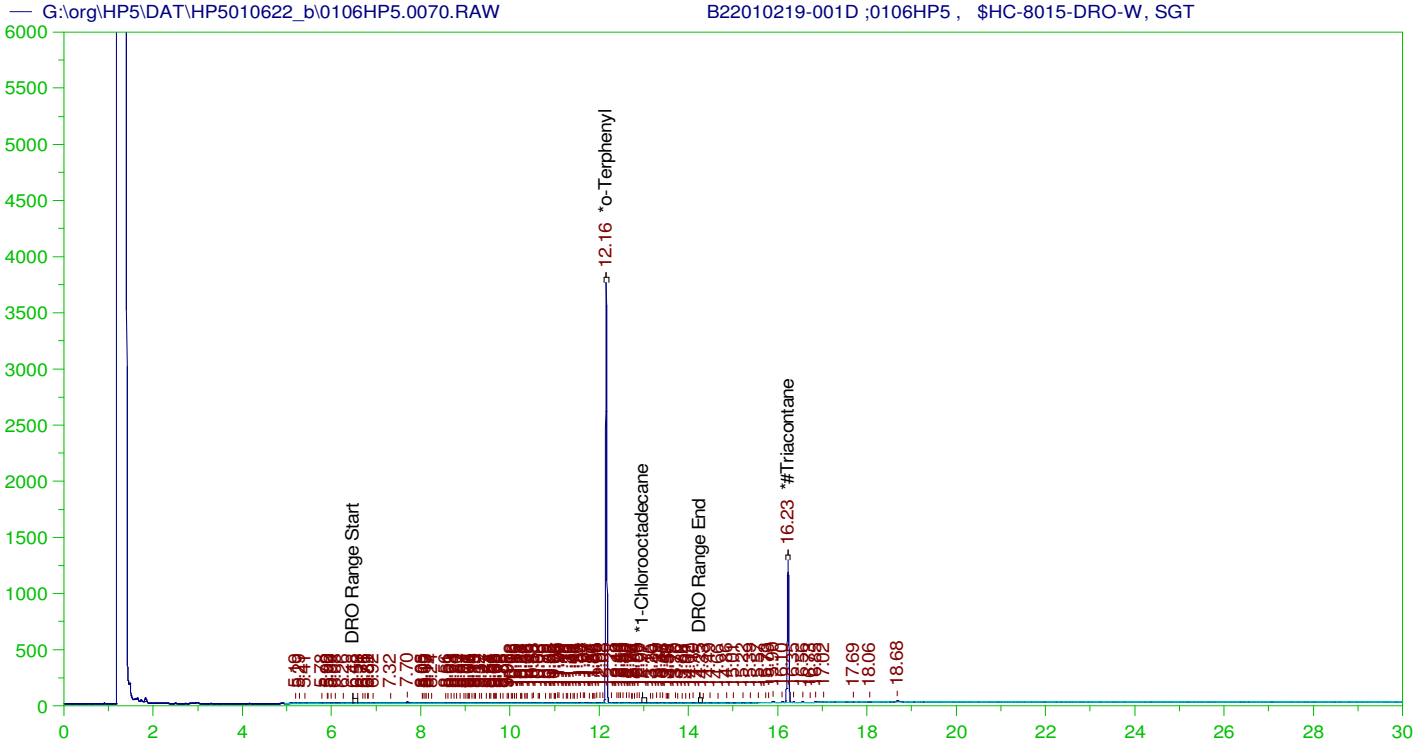
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.156	.192	.211	109.97	-
*1-Chlorooctadecane	12.973	.192	.	.01	-
*#Triacontane	16.228	.192	.114	59.4	-

DRO Area:278572.7 DRO Amount: 8.543257E-03
TEH Area:535535.6 TEH Amount: 1.642379E-02

ERH2301 (OWDFMW05A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0070.RAW B22010219-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010219-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0070.RAW
Date & Time Acquired: 1/8/2022 10:05:46 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

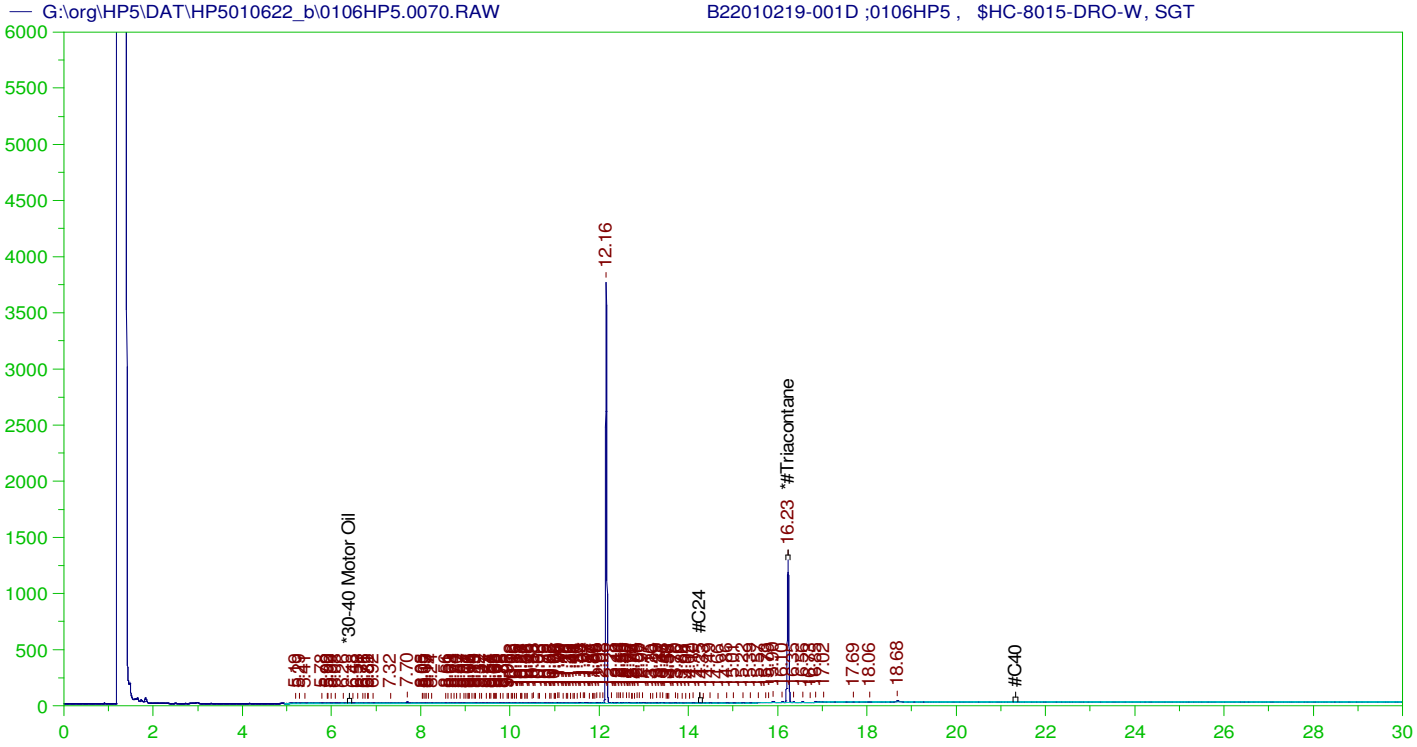
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.156	.2	.197	98.38	-
*1-Chlorooctadecane	12.969	.2	.001	.35	-
*#Triacontane	16.228	.2	.111	55.54	-

DRO Area:547033.4 DRO Amount: 1.744745E-02
TEH Area:812765.4 TEH Amount: 2.592289E-02

ERH2301 (OWDFMW05A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0070.RAW B22010219-001D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010219-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0070.RAW
Date & Time Acquired: 1/8/2022 10:05:46 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

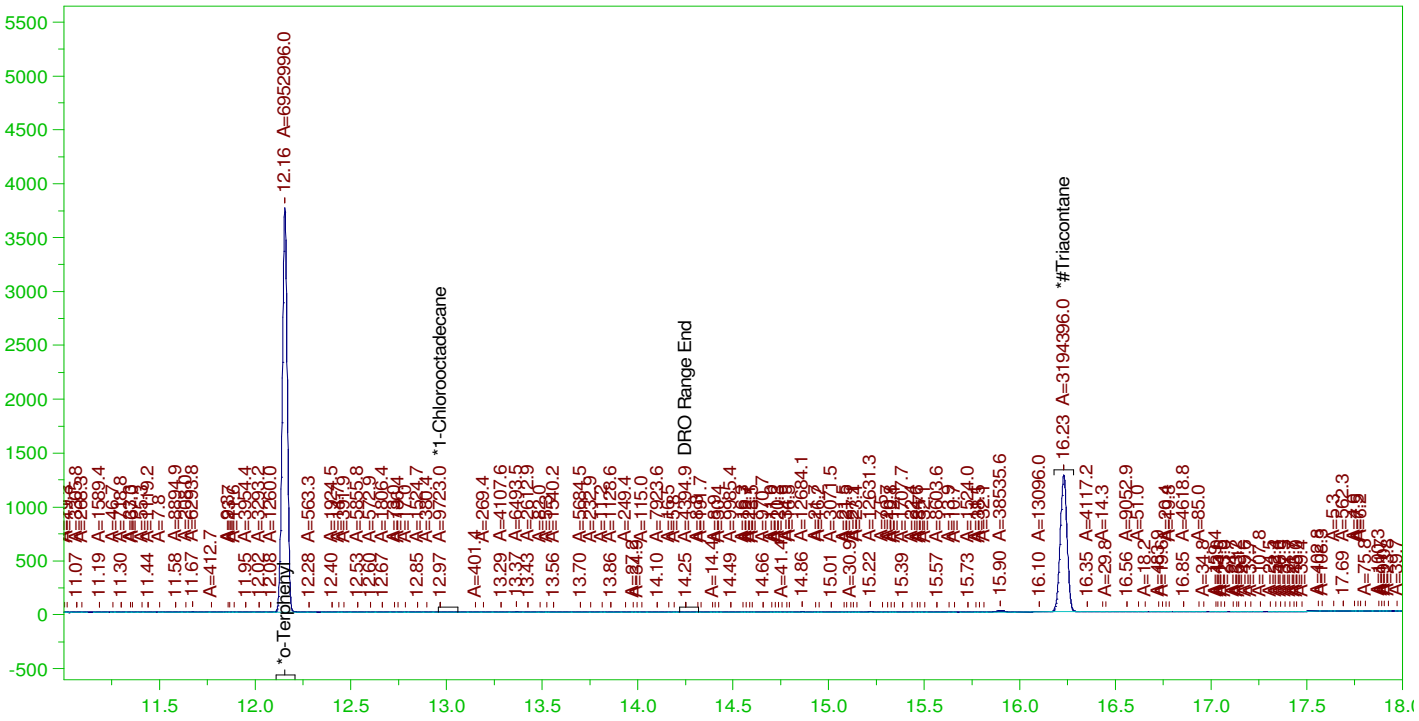
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.228	.5	.111	22.21	-

RRO Area:204253.1 RRO AMOUNT: 7.156125E-03

ERH2301 (OWDFMW05A) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0070.RAW B22010219-001D ;0106HP5 , $HC-8015-DRO-W, SGT



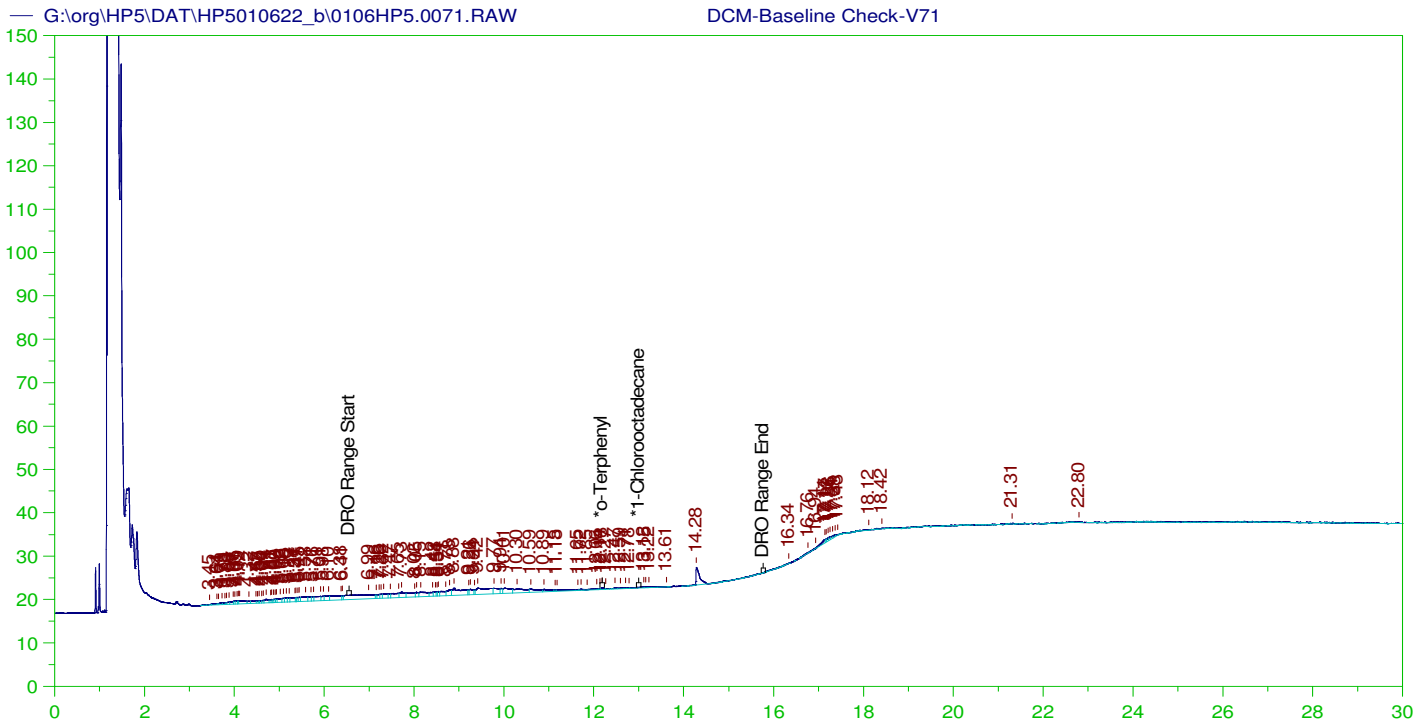
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010219-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0070.RAW
Date & Time Acquired: 1/8/2022 10:05:46 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.156	.2	.196	97.9	-
*1-Chlorooctadecane	12.969	.2	.	.14	-
*#Triacontane	16.228	.2	.11	55.21	-

DRO Area:249620.6 DRO Amount: 7.961568E-03
TEH Area:516384.1 TEH Amount: 1.646991E-02



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V71
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0071.RAW
Date & Time Acquired: 1/8/2022 10:49:16 AM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

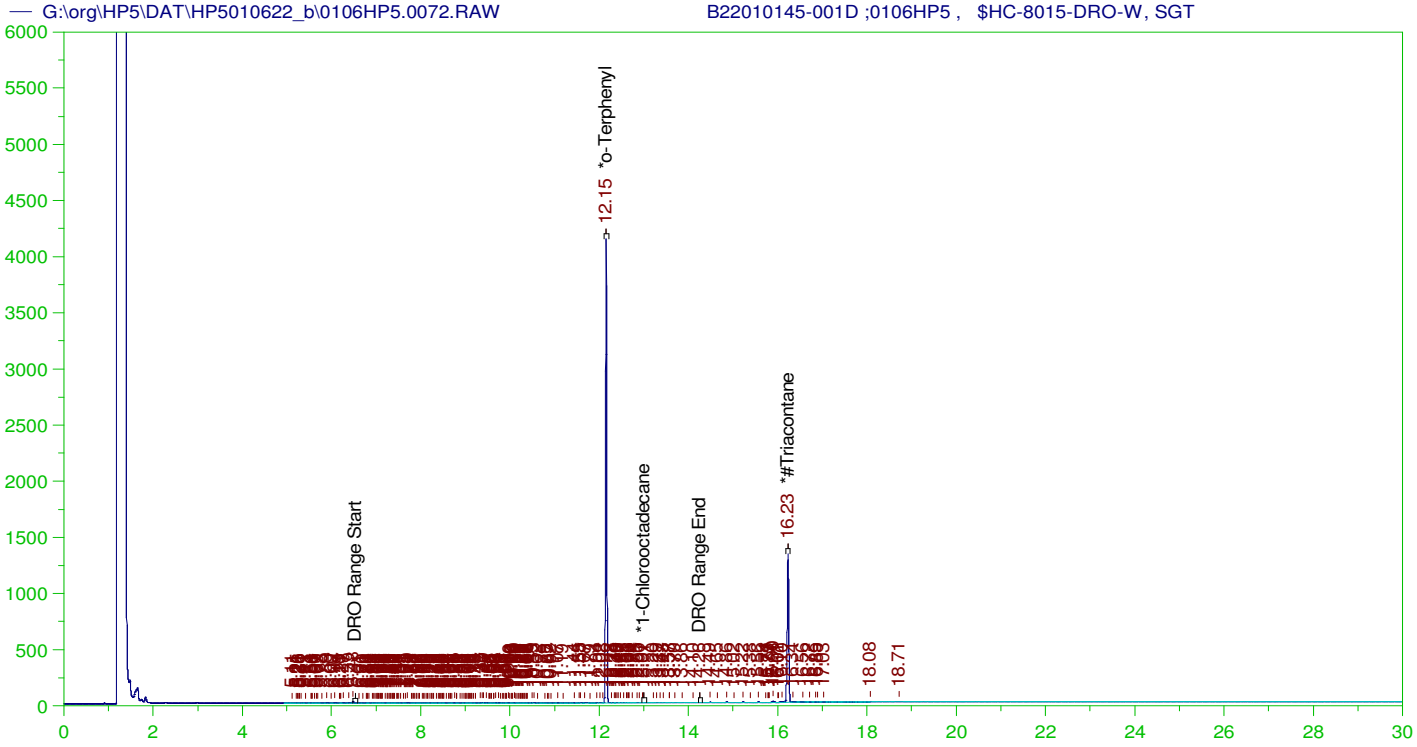
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.182	200.	.06	.03	-
*1-Chlorooctadecane	29.972	200.	.	.	-

DRO Area:320416.3 DRO Amount: 10.21957
TEH Area:506689 TEH Amount: 16.16068

ERH2313 (RHMW11 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0072.RAW B22010145-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010145-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0072.RAW
Date & Time Acquired: 1/8/2022 11:32:47 AM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

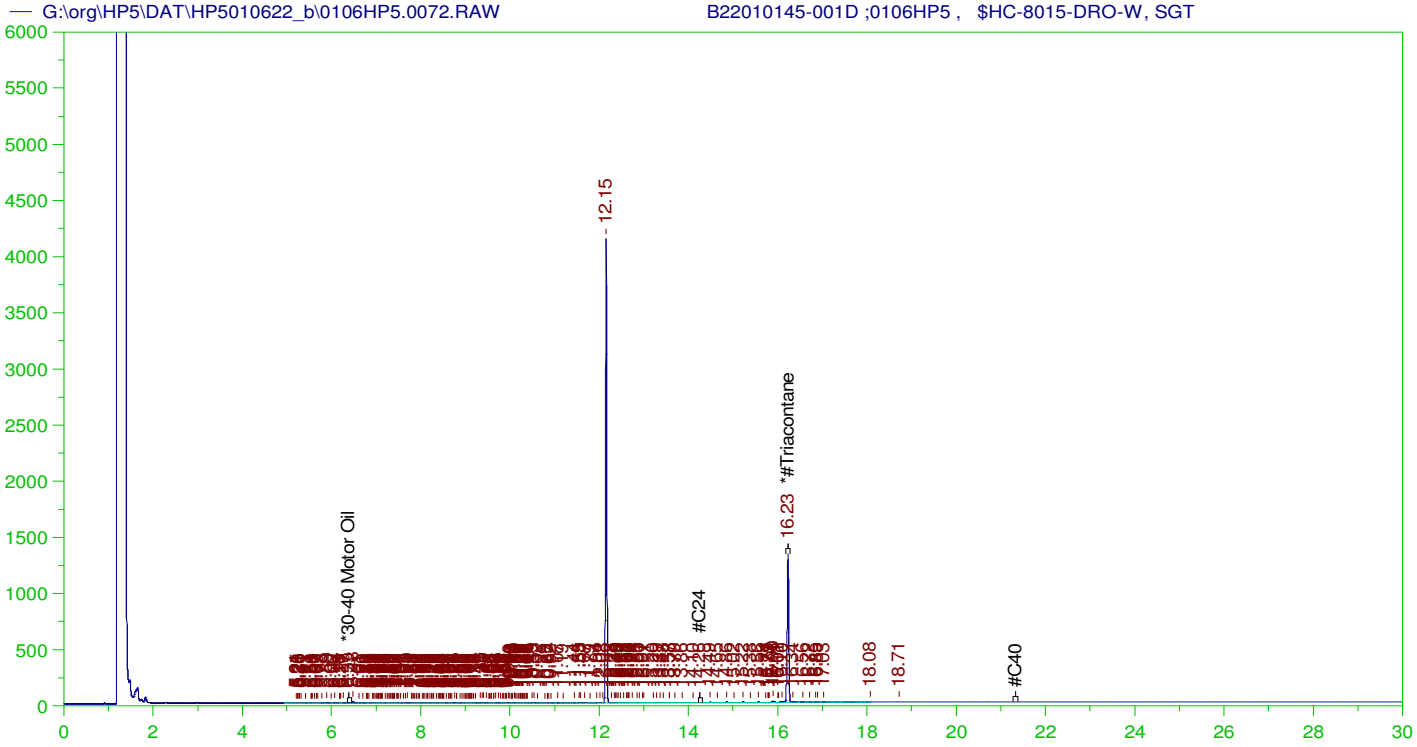
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.155	.2	.215	107.7	-
*1-Chlorooctadecane	13.007	.2	.04		-
*#Triacontane	16.226	.2	.115	57.7	-

DRO Area:378487.4 DRO Amount: 1.207174E-02
TEH Area:724551.6 TEH Amount: 2.310934E-02

ERH2313 (RHMW11 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0072.RAW B22010145-001D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010145-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0072.RAW
Date & Time Acquired: 1/8/2022 11:32:47 AM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

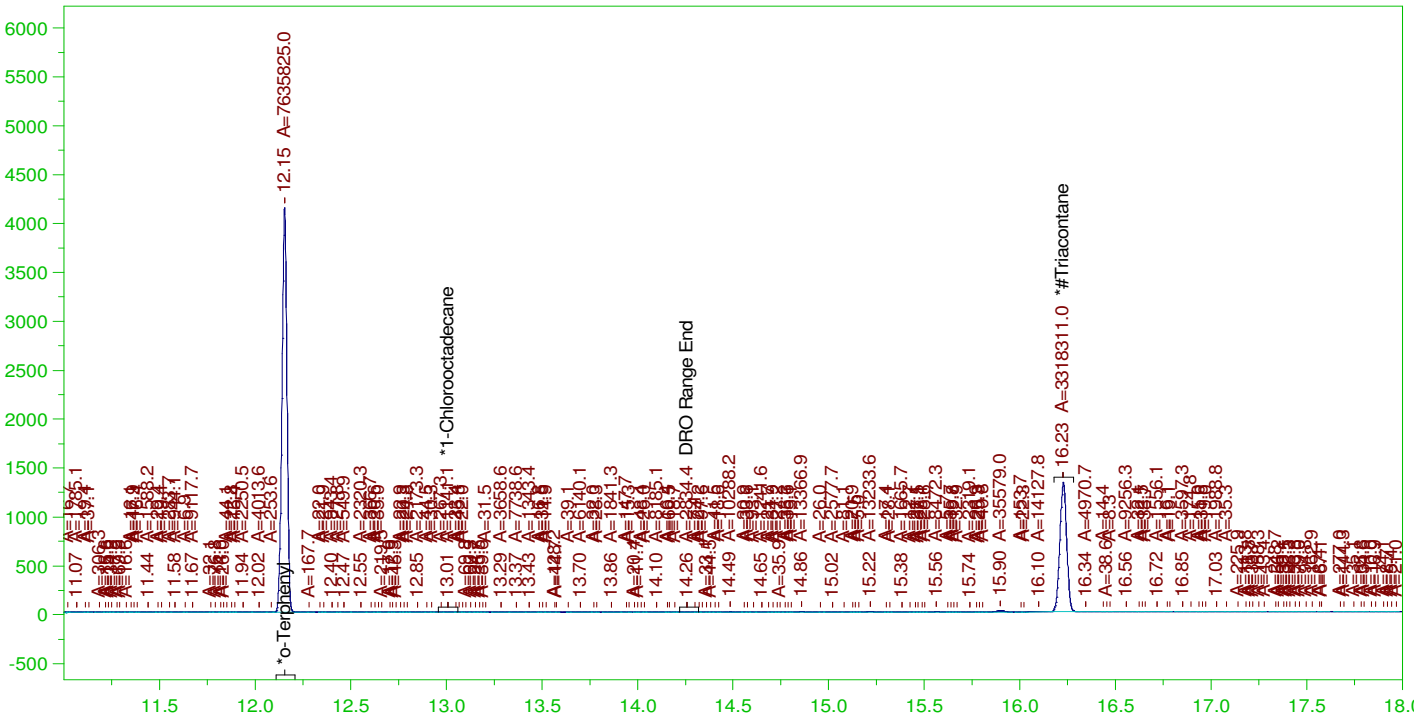
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.226	.5	.115	23.08	-

RRO Area:181042.4 RRO AMOUNT: 6.342925E-03

ERH2313 (RHMW11 zone 5) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0072.RAW B22010145-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010145-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0072.RAW
Date & Time Acquired: 1/8/2022 11:32:47 AM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

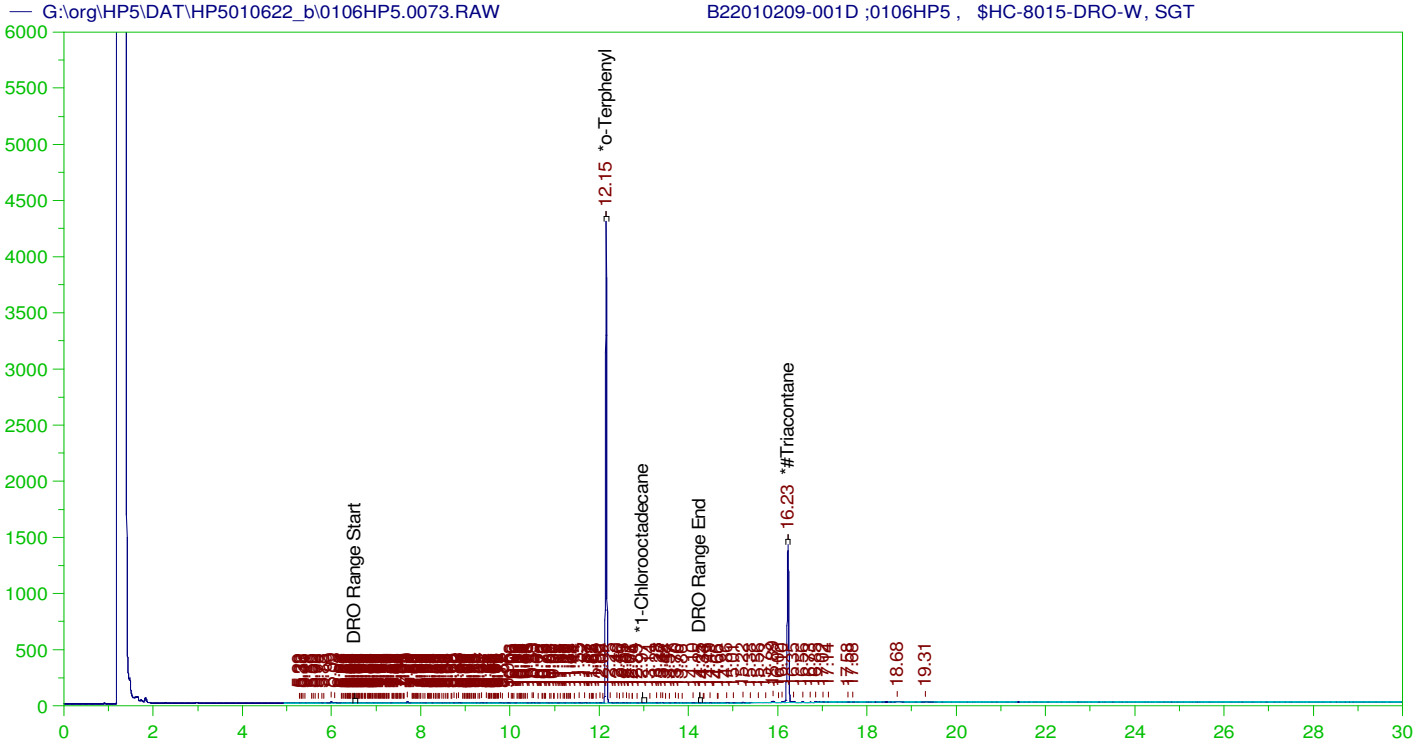
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.155	.2	.215	107.52	-
*1-Chlorooctadecane	13.007	.2	.02	10	-
*#Triacontane	16.226	.2	.115	57.35	-

DRO Area:356908.6 DRO Amount: 1.138349E-02
TEH Area:790210.4 TEH Amount: 2.520351E-02

ERH2317 (RHMW09) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0073.RAW B22010209-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010209-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0073.RAW
Date & Time Acquired: 1/8/2022 12:15:54 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

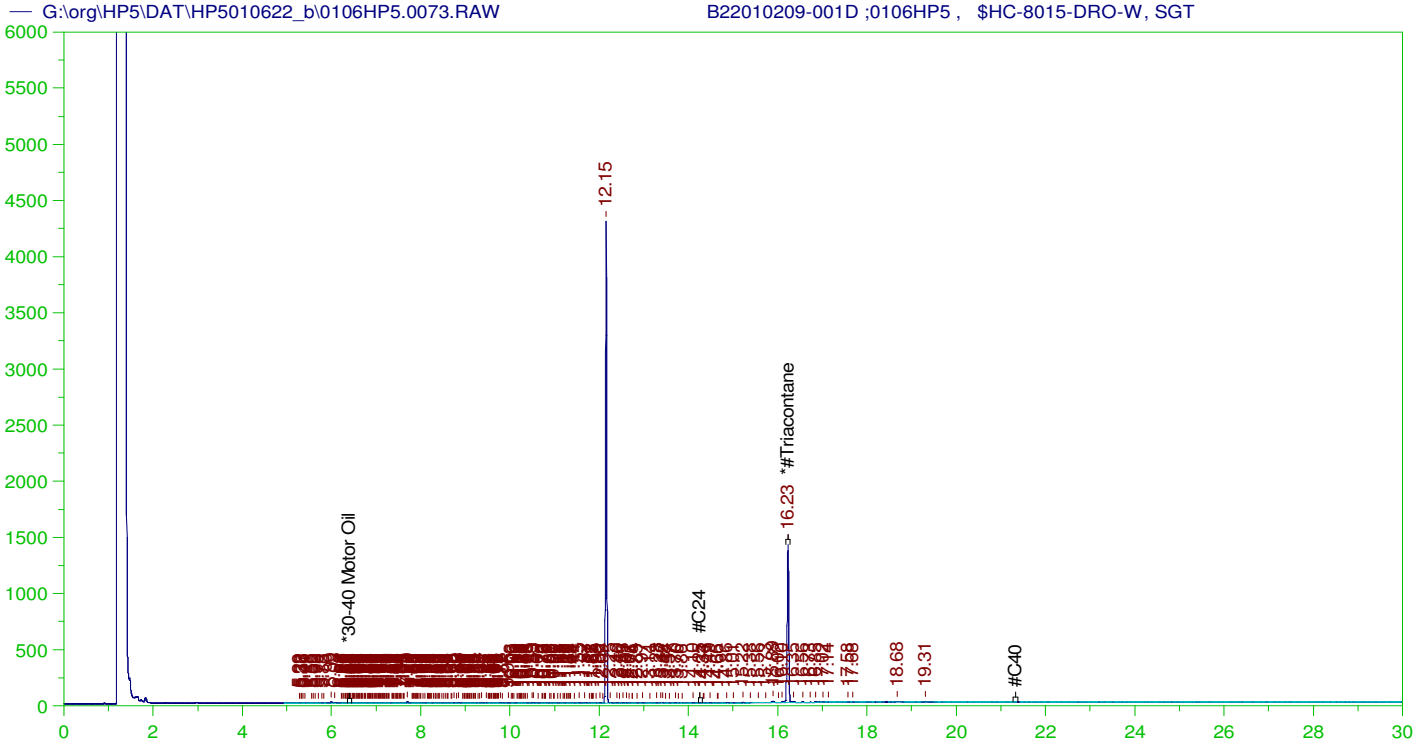
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.154	.192	.215	111.91	-
*1-Chlorooctadecane	12.969	.192	.19		-
*#Triacontane	16.226	.192	.119	62.01	-

DRO Area:552421.9 DRO Amount: 1.694165E-02
TEH Area:927653 TEH Amount: 2.844923E-02

ERH2317 (RHMW09) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0073.RAW B22010209-001D ;0106HP5 , $HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010209-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0073.RAW
Date & Time Acquired: 1/8/2022 12:15:54 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

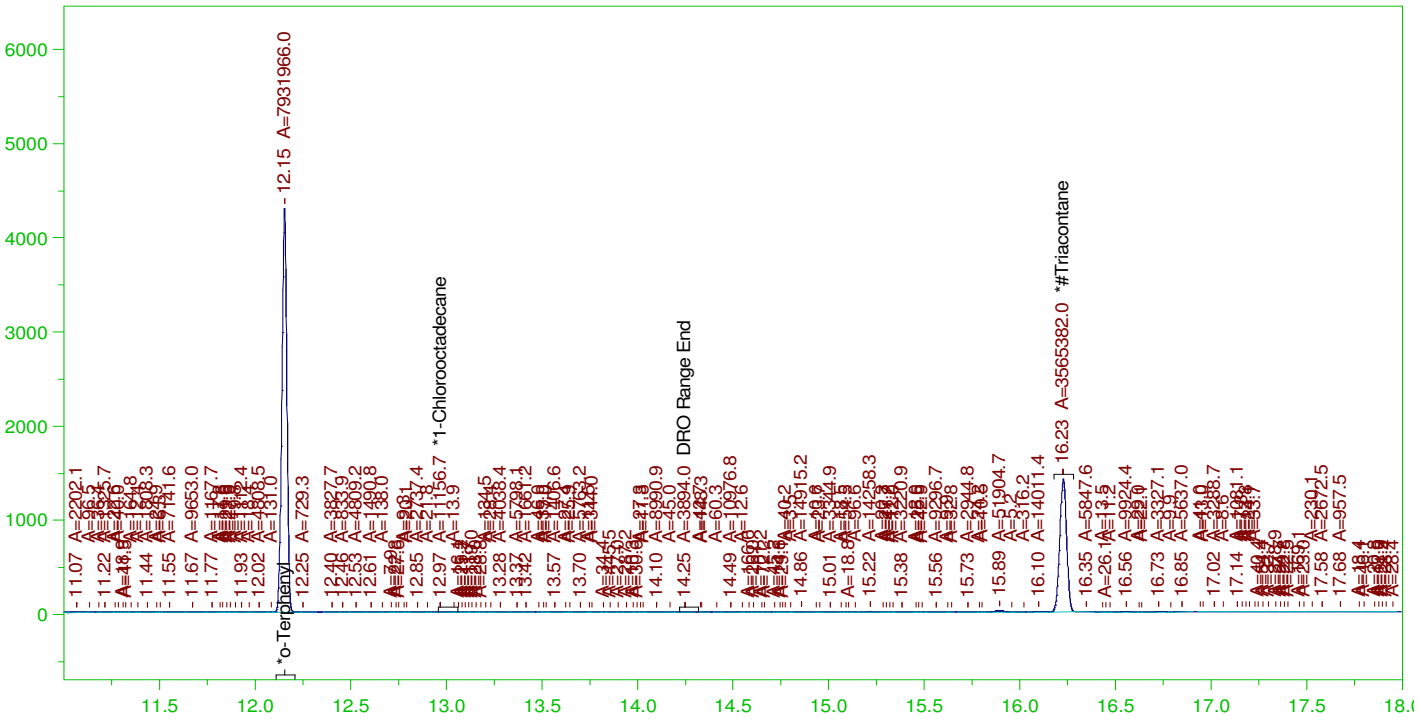
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.226	.481	.119	24.8	-

RRO Area:254445.7 RRO AMOUNT: 8.571783E-03

ERH2317 (RHMW09) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0073.RAW B22010209-001D ;0106HP5 , $HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010209-001D ;0106HP5 , $HC-8015-DRO-W, SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0073.RAW
Date & Time Acquired: 1/8/2022 12:15:54 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

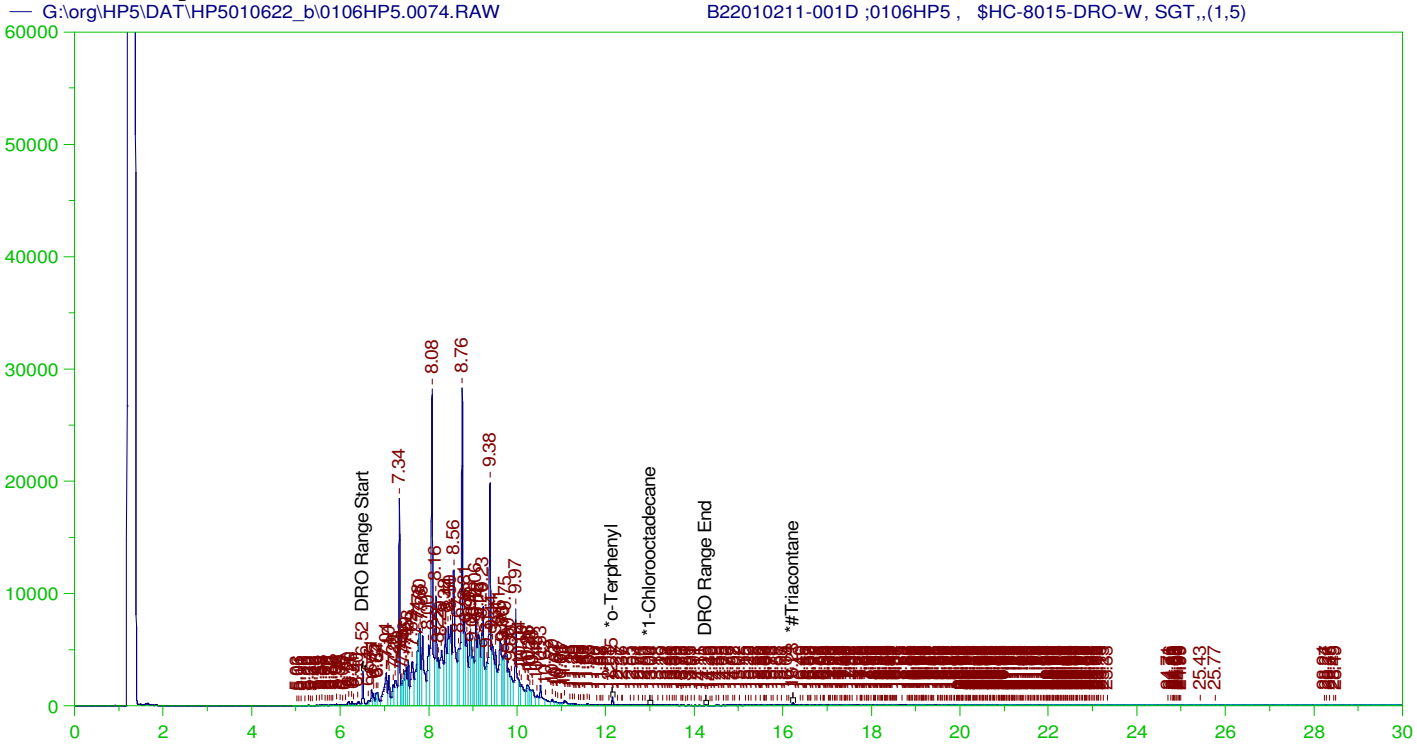
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.154	.192	.215	111.69	-
*1-Chlorooctadecane	12.969	.192	.16		-
*#Triacontane	16.226	.192	.119	61.62	-

DRO Area:425958.5 DRO Amount: 1.306328E-02
TEH Area:904097.8 TEH Amount: 2.772684E-02

ERH2336 (Sump Adit3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0074.RAW B22010211-001D ;0106HP5 , $HC-8015-DRO-W, SGT,,(1,5)



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010211-001D ;0106HP5 , $HC-8015-DRO-W, SGT,,(1,5)
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0074.RAW
Date & Time Acquired: 1/8/2022 12:59:15 PM
Method File: G:\Org\HP5\Methods\DR_8015-010674-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1030 Dilution: 5 S.A.: 1

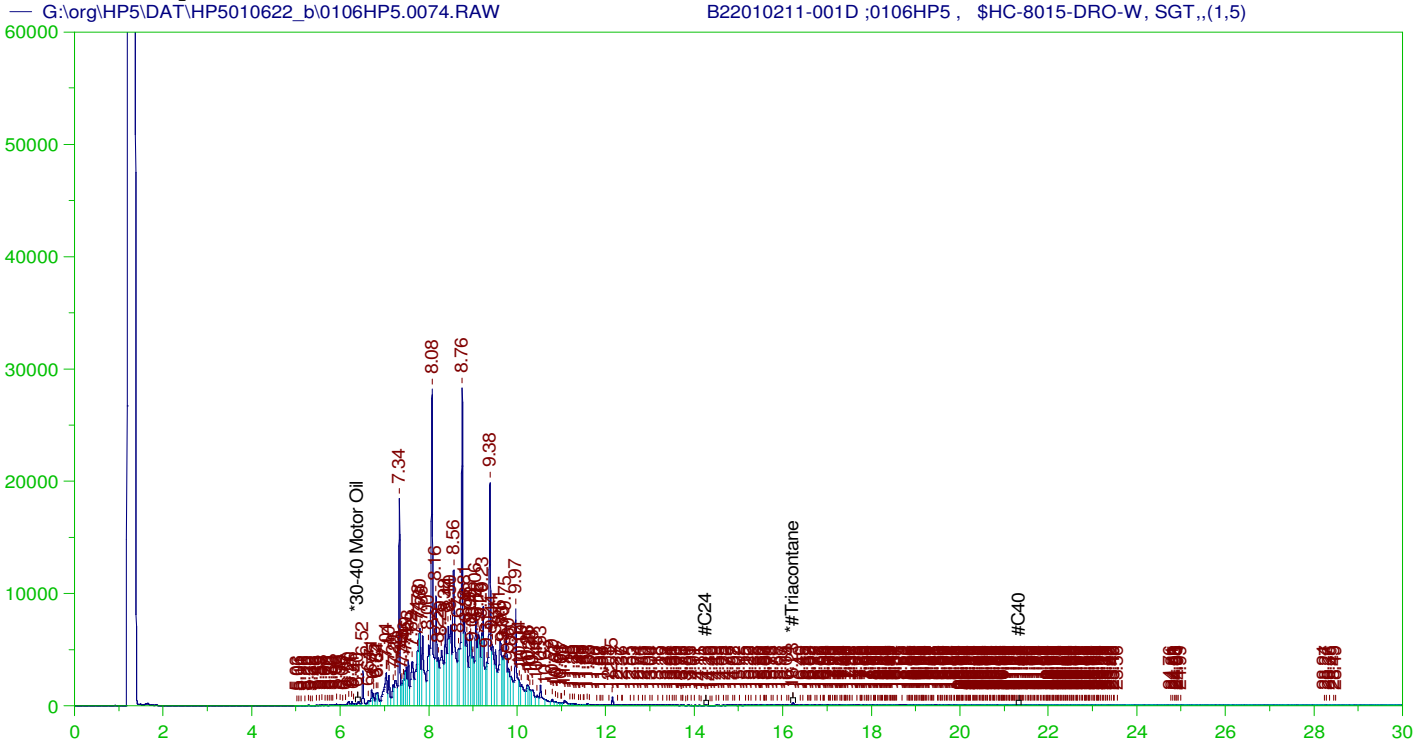
Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.151	.194	.206	106.15	-
*1-Chlorooctadecane	13.005	.194	.005	2.45	-
*#Triacontane	16.225	.194	.114	58.53	-

DRO Area:9.942164E+08 DRO Amount: 153.9331
TEH Area:1.001299E+09 TEH Amount: 155.0297

ERH2336 (Sump Adit3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0074.RAW B22010211-001D ;0106HP5 , $HC-8015-DRO-W, SGT,,(1,5)



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010211-001D ;0106HP5 , $HC-8015-DRO-W, SGT,,(1,5)
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0074.RAW
Date & Time Acquired: 1/8/2022 12:59:15 PM
Method File: G:\Org\HP5\Methods\DR_OROS-010674-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN-SAMP.CAL
Sample Weight: 1030 Dilution: 5 S.A.: 1

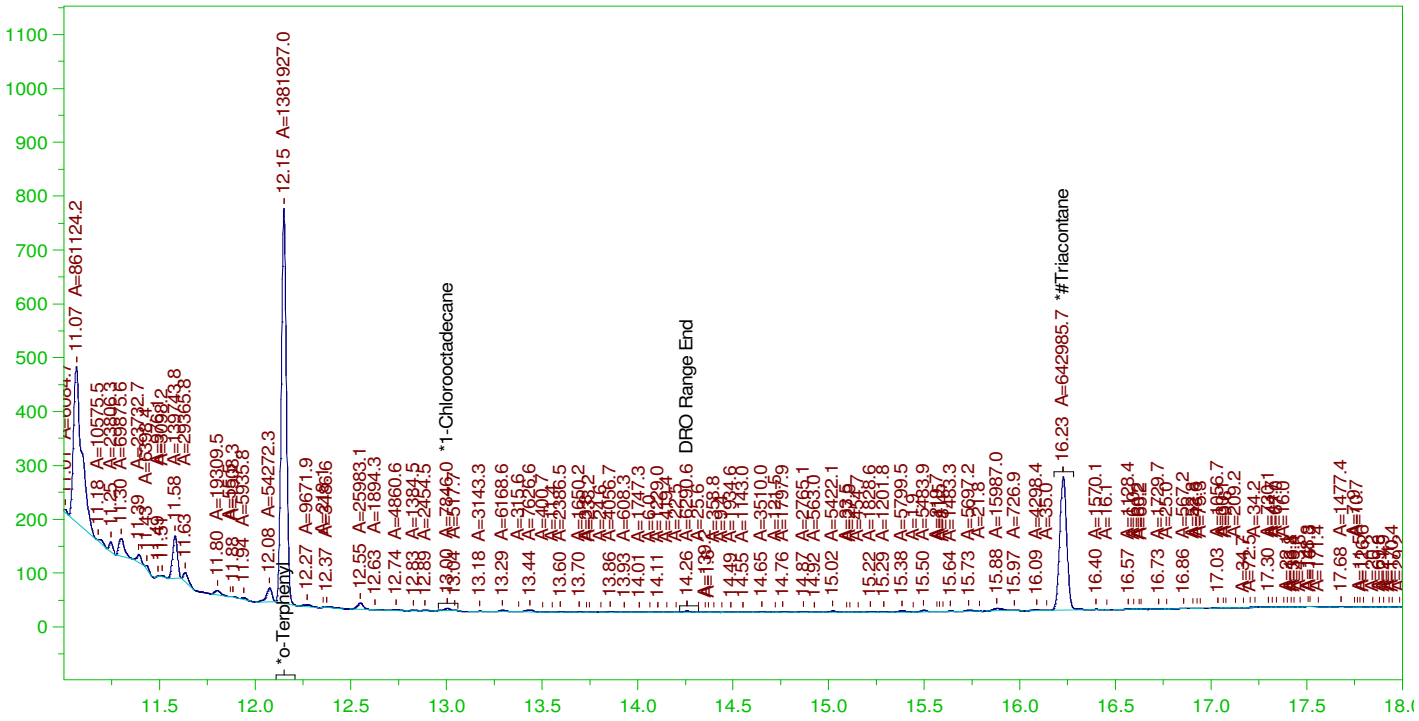
Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.22 to 21.38

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.225	.485	.114	23.43	-

RRO Area:1719763 RRO AMOUNT: 0.2924897

ERH2336 (Sump Adit3) Batch ID: 162703

G:\org\HP5\DAT\HP5010622_b\0106HP5.0074.RAW B22010211-001D ;0106HP5 , $HC-8015-DRO-W, SGT,,(1,5)



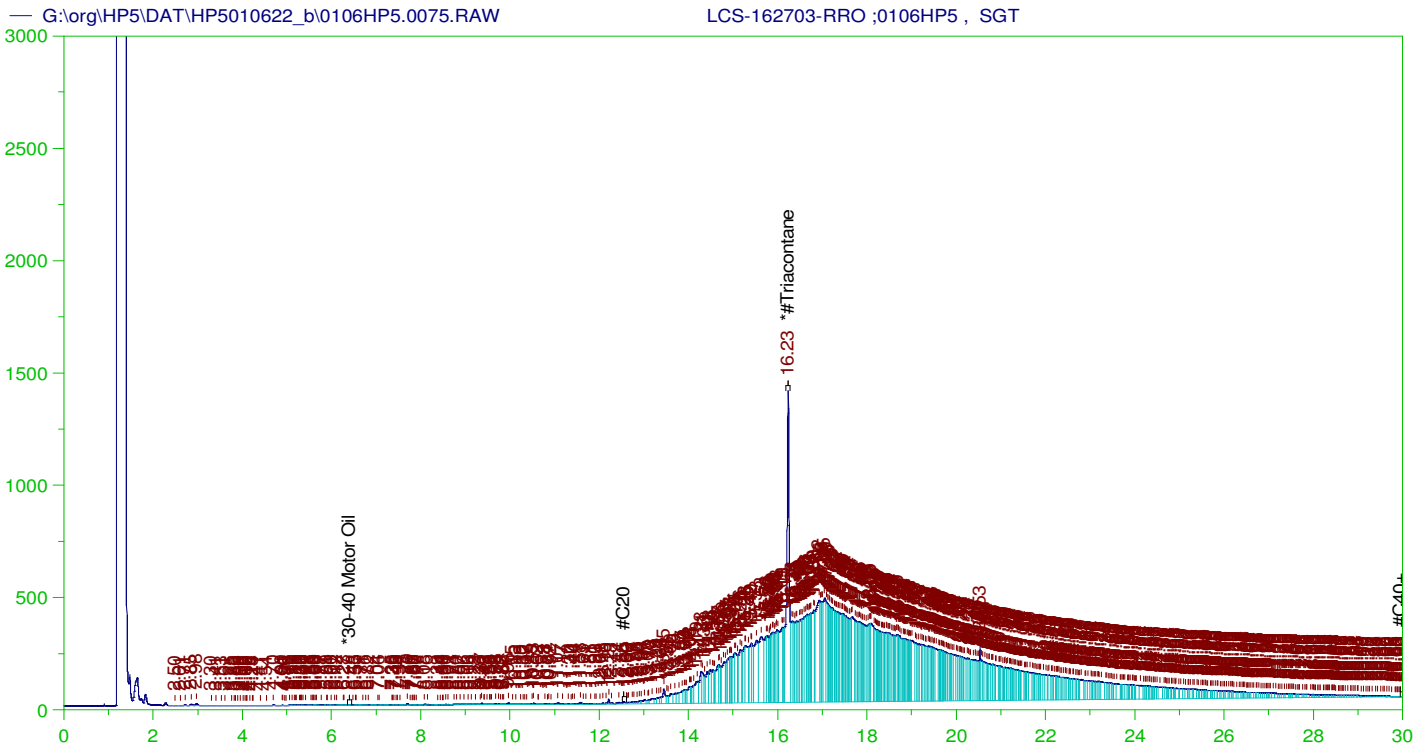
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010211-001D ;0106HP5 , $HC-8015-DRO-W, SGT,,(1,5)
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0074.RAW
Date & Time Acquired: 1/8/2022 12:59:15 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24-Tri.CAL
Sample Weight: 1030 Dilution: 5 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.151	.194	.189	97.29	-
*1-Chlorooctadecane	13.005	.194	.001	.55	-
*#Triacontane	16.225	.194	.108	55.56	-

DRO Area:9.3546E+08 DRO Amount: 144.8359
TEH Area:9.397164E+08 TEH Amount: 145.4949



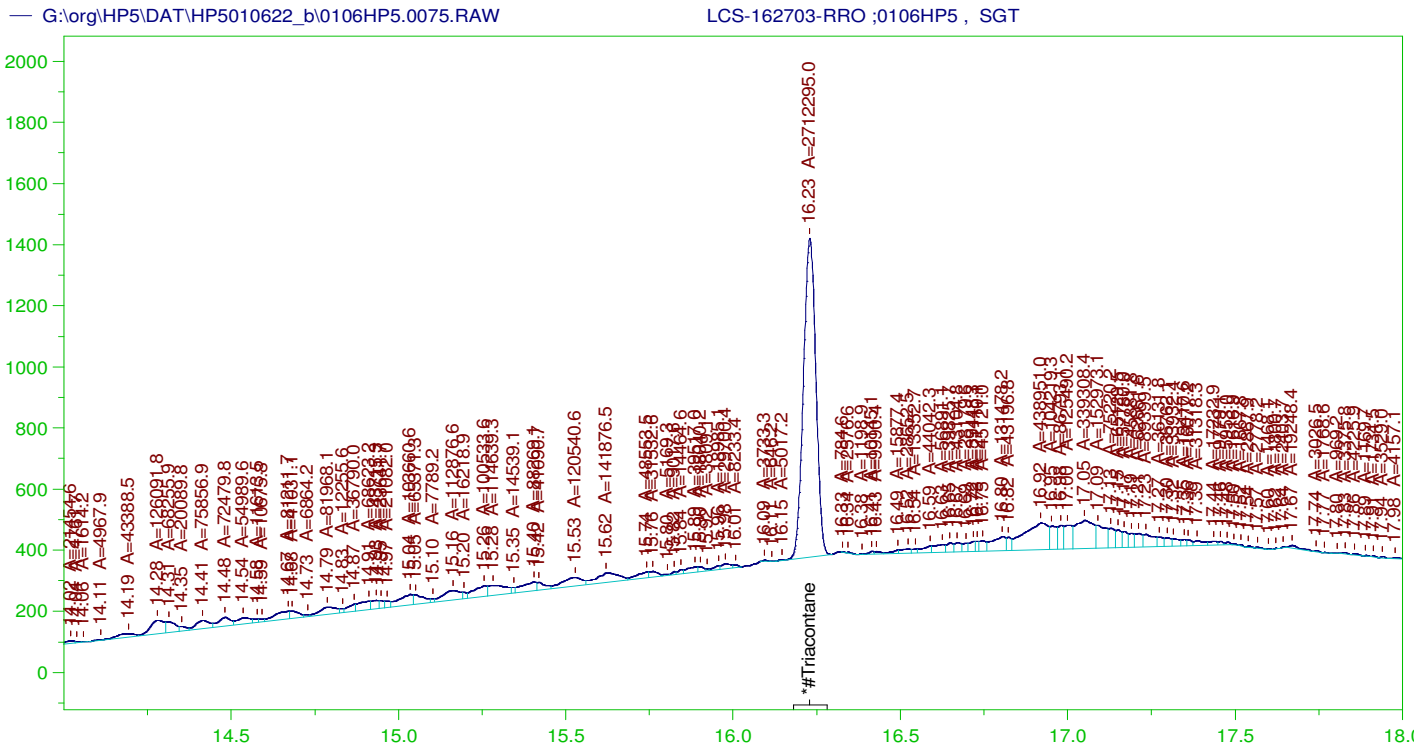
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCS-162703-RRO ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0075.RAW
Date & Time Acquired: 1/8/2022 1:42:17 PM
Method File: G:\Org\HP5\Methods\D3_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.229	.5	.191	38.16	-

~~RRO~~ TEH (Oil Range) Area:1.385494E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 4.854159



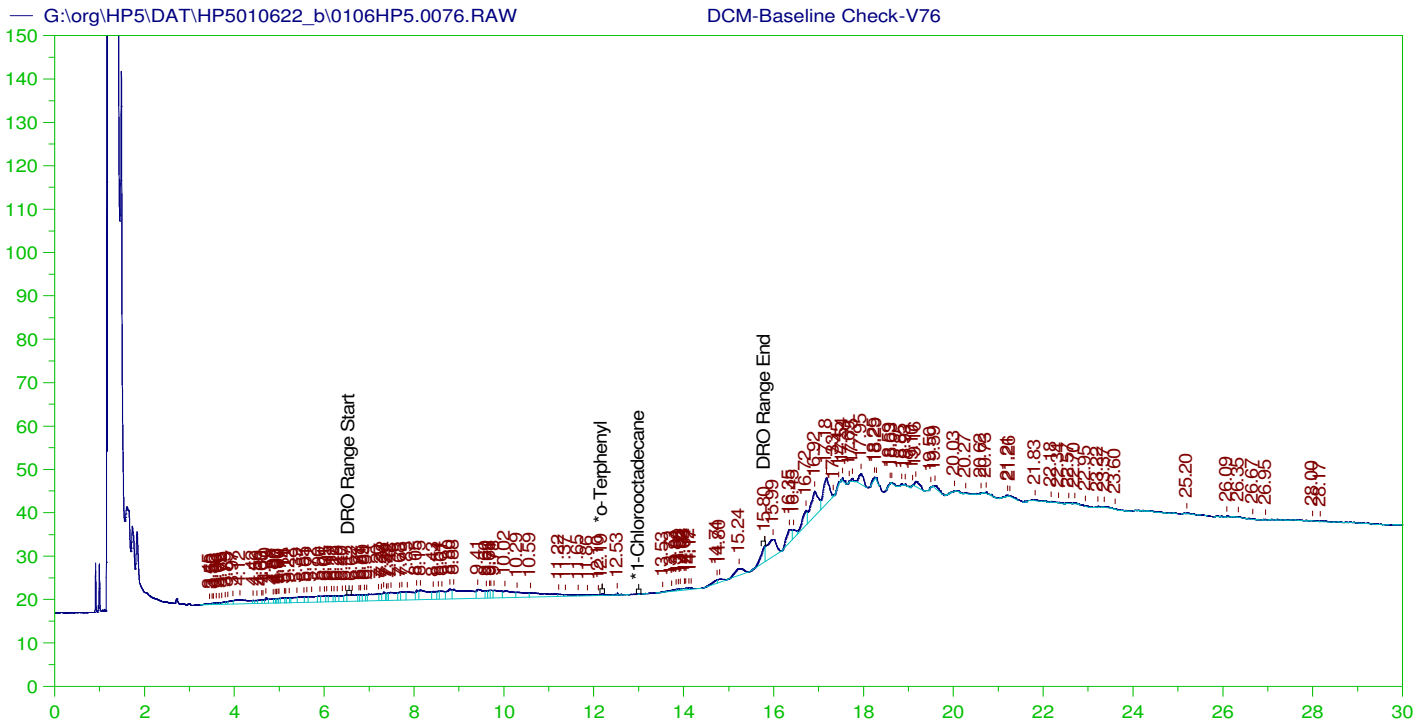
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCS-162703-RRO ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0075.RAW
Date & Time Acquired: 1/8/2022 1:42:17 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.229	.5	.094	18.75	-

RRO Area:5193838 RRO AMOUNT: 0.1819691



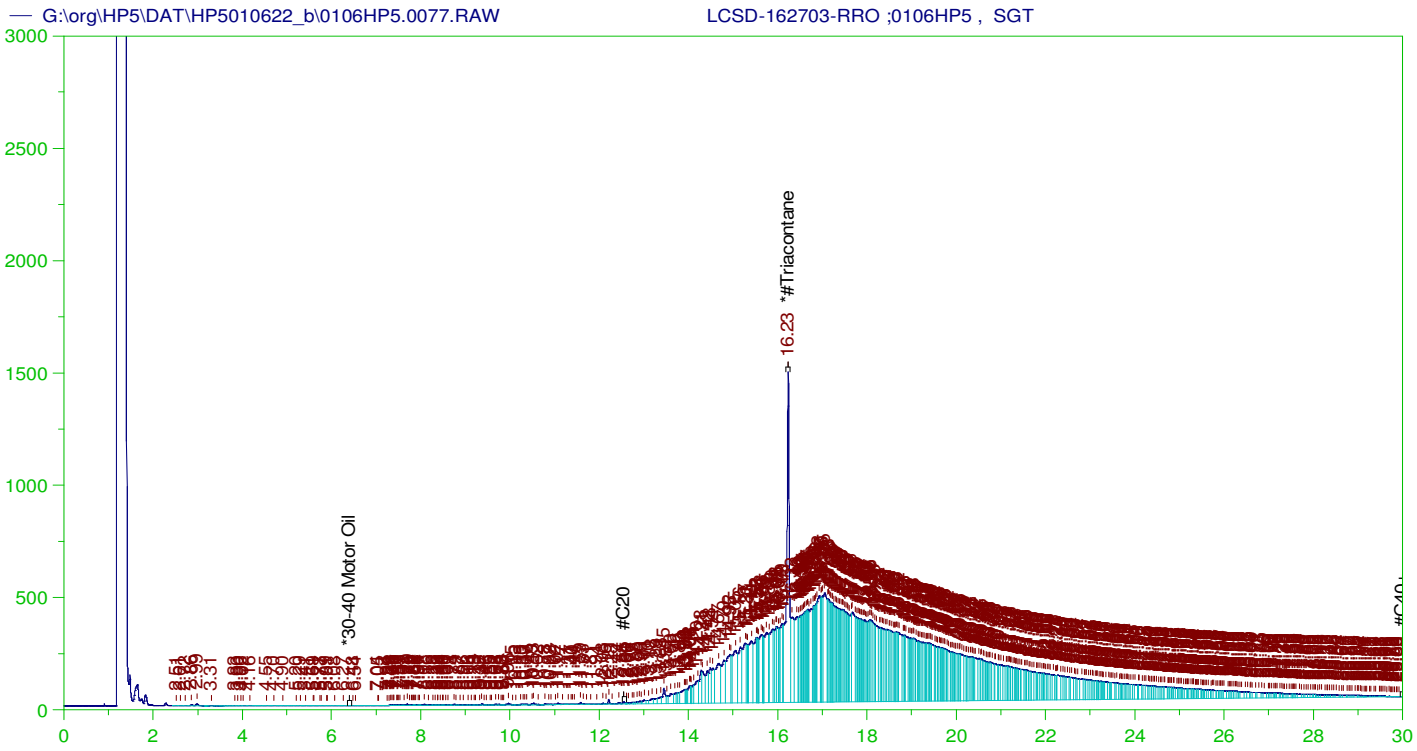
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V76
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0076.RAW
Date & Time Acquired: 1/8/2022 2:25:29 PM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.187	200.	.06	.03	-
*1-Chlorooctadecane	29.98	200.	.	.	-

DRO Area:513680.1 DRO Amount: 16.38366
TEH Area:1036894 TEH Amount: 33.07139



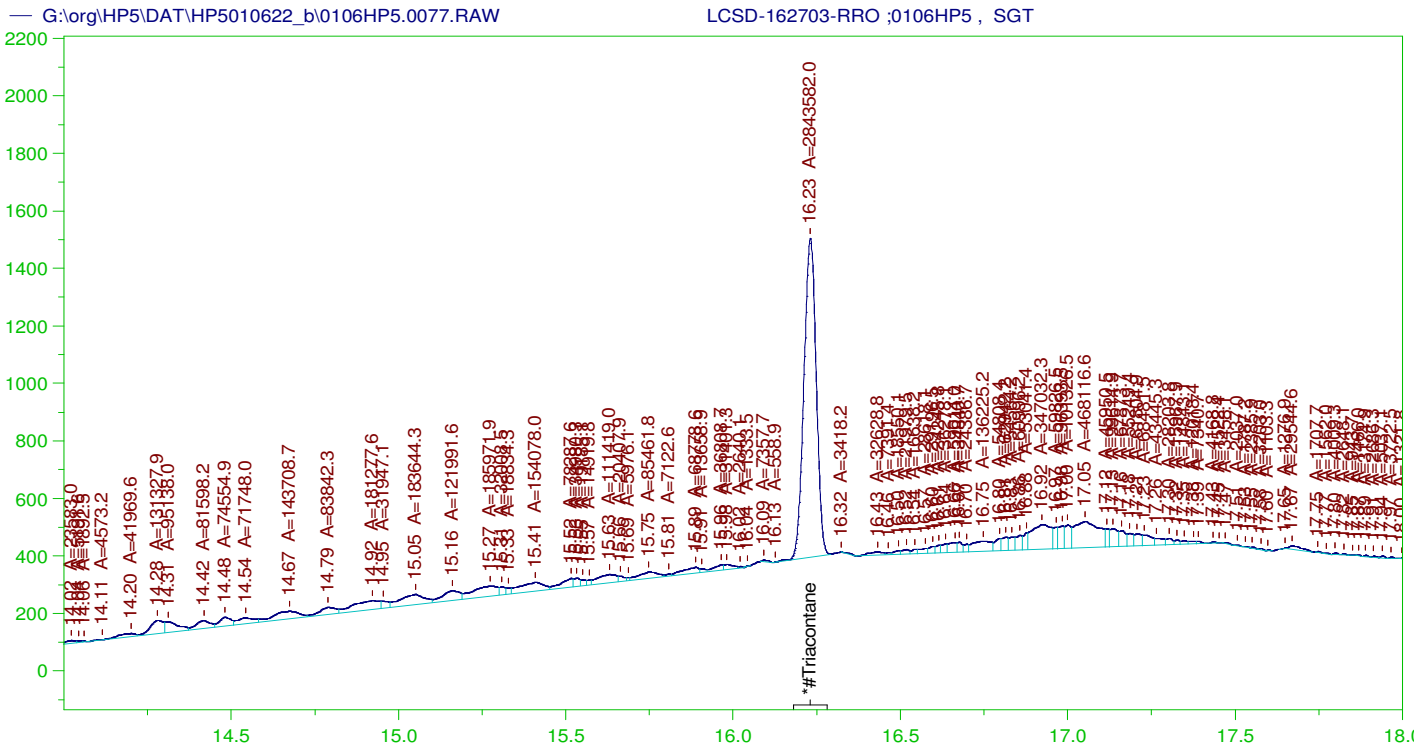
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCSD-162703-RRO ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0077.RAW
Date & Time Acquired: 1/8/2022 3:08:33 PM
Method File: G:\Org\HP5\Methods\D3_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.231	.5	.218	43.51	-

~~RRO~~ TEH (Oil Range) Area:1.4533E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 5.09172



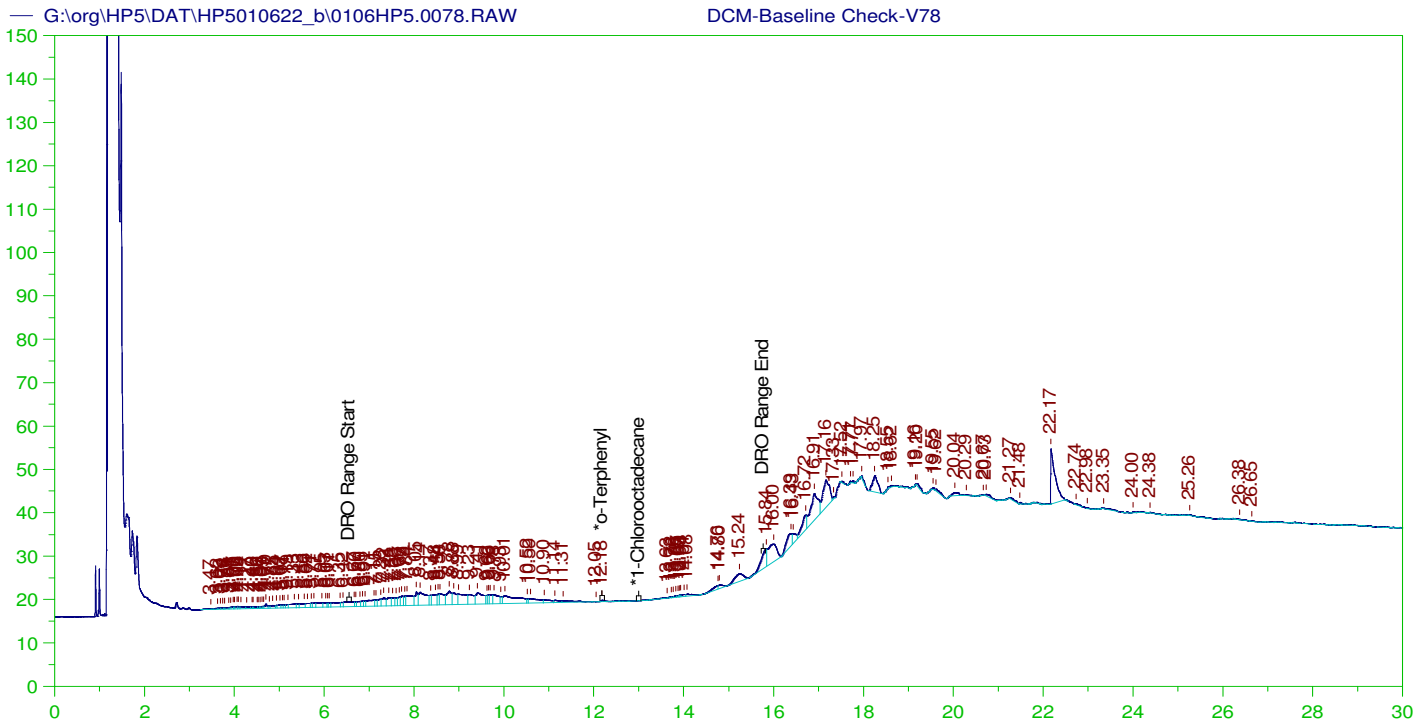
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCSD-162703-RRO ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0077.RAW
Date & Time Acquired: 1/8/2022 3:08:33 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.231	.5	.098	19.66	-

RRO Area:5246114 RRO AMOUNT: 0.1838006



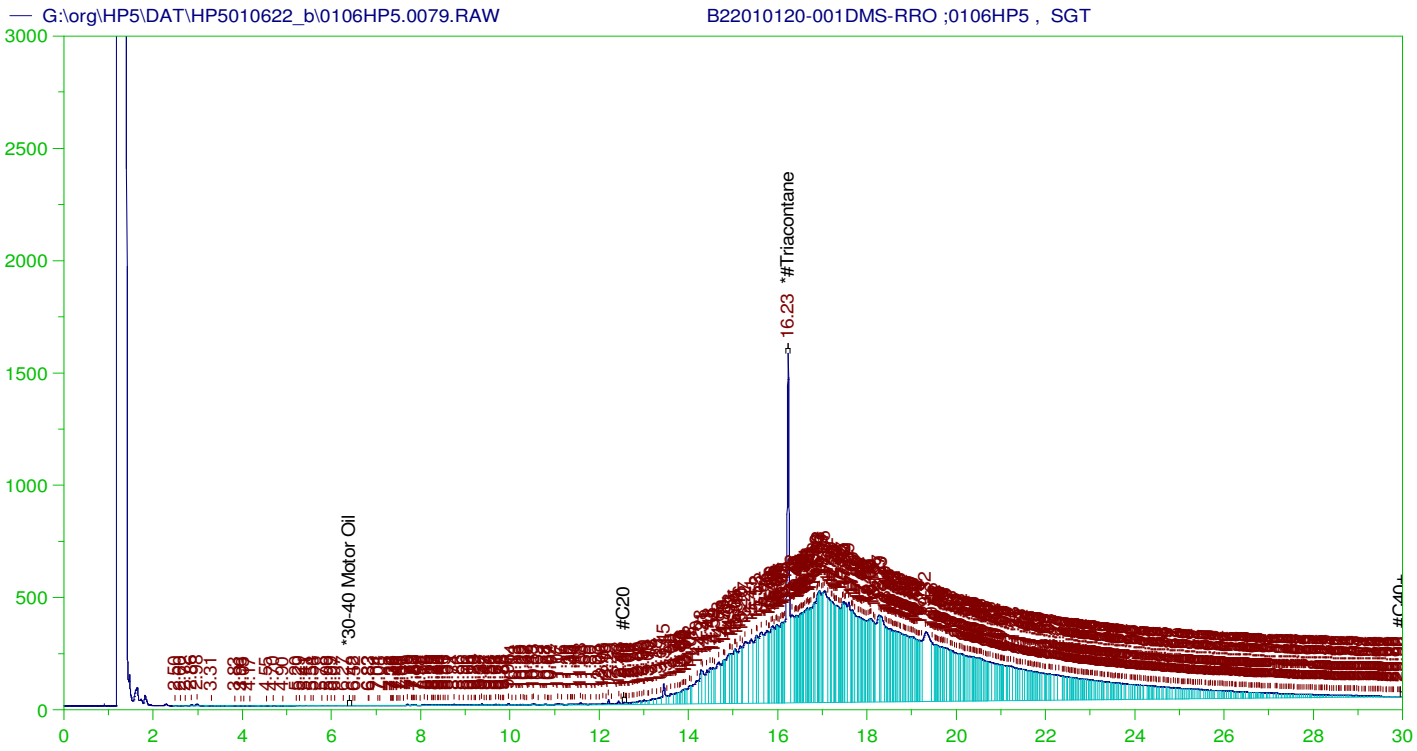
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V78
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0078.RAW
Date & Time Acquired: 1/8/2022 3:51:38 PM
Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.5 to 15.82

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.177	200.	.041	.02	-
*1-Chlorooctadecane	29.944	200.	.	.	-

DRO Area:556705.5 DRO Amount: 17.75594
TEH Area:1157048 TEH Amount: 36.90366



RESIDUAL RANGE ORGANICS CHROMATOGRAM

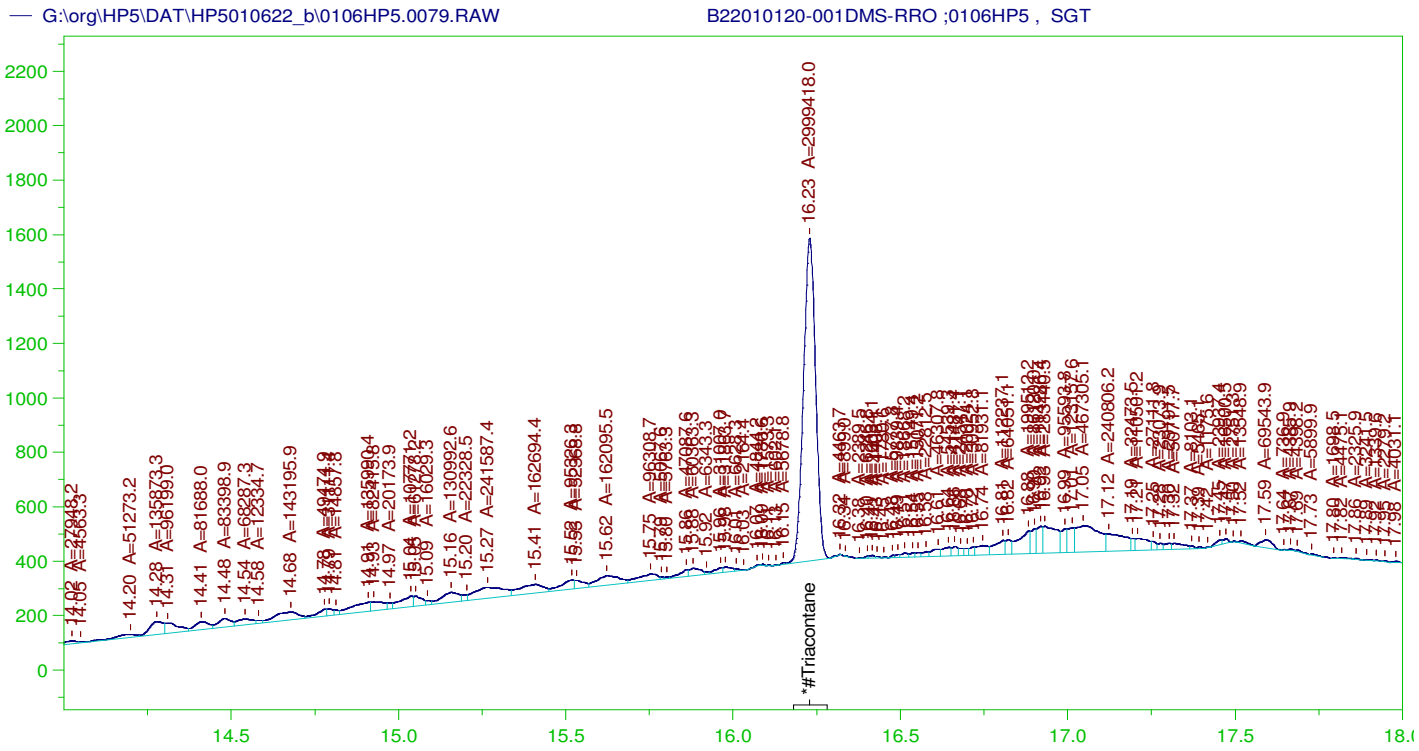
Sample Name: B22010120-001DMS-RRO ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0079.RAW
Date & Time Acquired: 1/8/2022 4:34:50 PM
Method File: G:\Org\HP5\Methods\D3_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 28542.41
Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.228	.485	.195	40.21	-

~~RRO~~ TEH (Oil Range) Area:1.50229E+08 ~~RRO~~ TEH (Oil Range) AMOUNT: 5.110058

AMN 01/31/2022



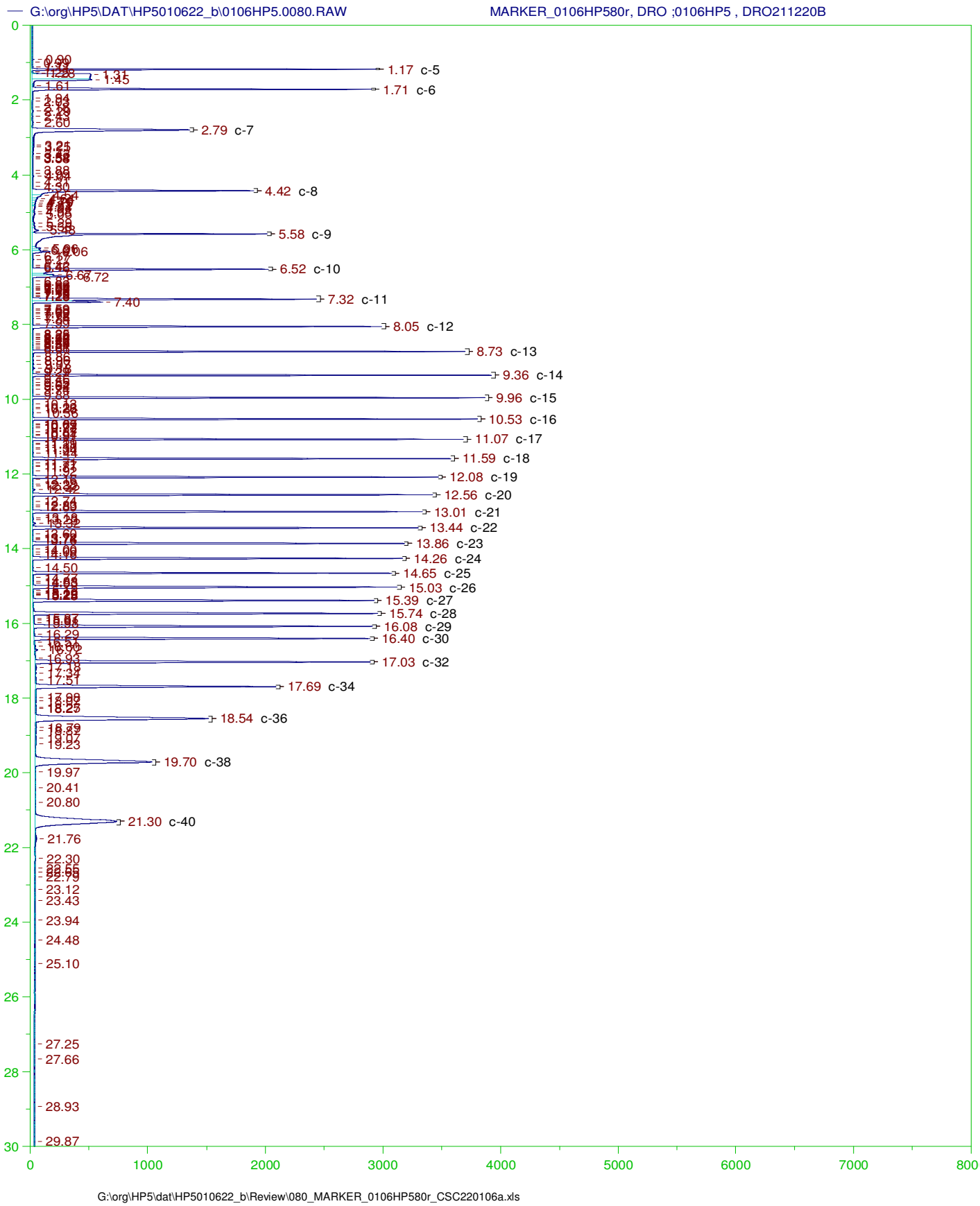
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010120-001DMS-RRO ;0106HP5 , SGT
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0079.RAW
Date & Time Acquired: 1/8/2022 4:34:50 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.228	.485	.101	20.74	-

RRO Area:6032099 RRO AMOUNT: 0.2051826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1.71 c-6
2.79 c-7
4.42 c-8
5.58 c-9
6.52 c-10
7.32 c-11
8.05 c-12
8.73 c-13
9.36 c-14
9.96 c-15
10.53 c-16
11.07 c-17
11.59 c-18
12.08 c-19
12.56 c-20
13.01 c-21
13.44 c-22
13.86 c-23
14.26 c-24
14.65 c-25
15.03 c-26
15.39 c-27
15.74 c-28
16.08 c-29
16.40 c-30
17.03 c-32
17.69 c-34
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19.70 c-38
21.30 c-40
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800
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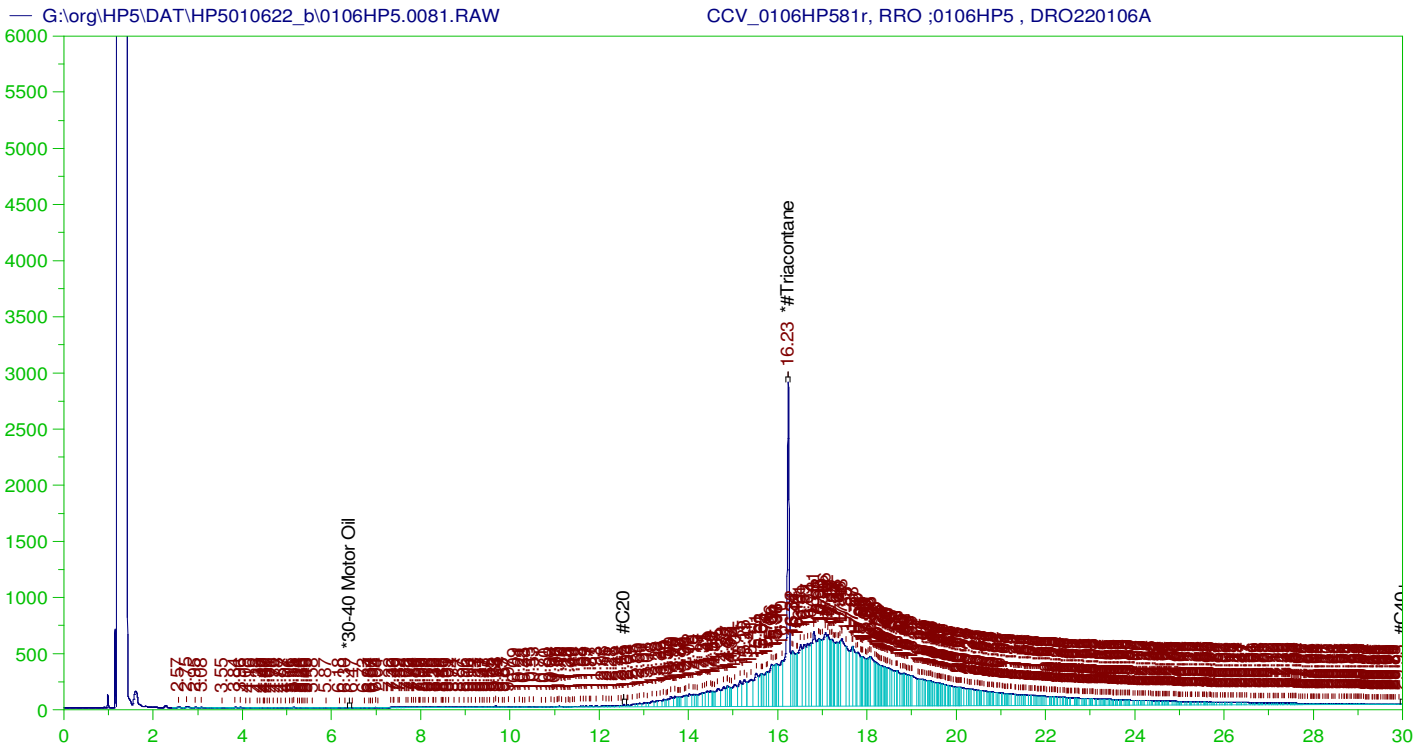


RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP581r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0081.RAW
Date & Time Acquired: 1/8/2022 6:01:44 PM
Method File: G:\Org\HP5\Methods\DC_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.233	500.	374.266	74.85	-

~~RRO~~ TEH (Oil Range) Area:1.47E+08 ~~RRO~~ TEH (Oil Range)AMOUNT: 5150.232

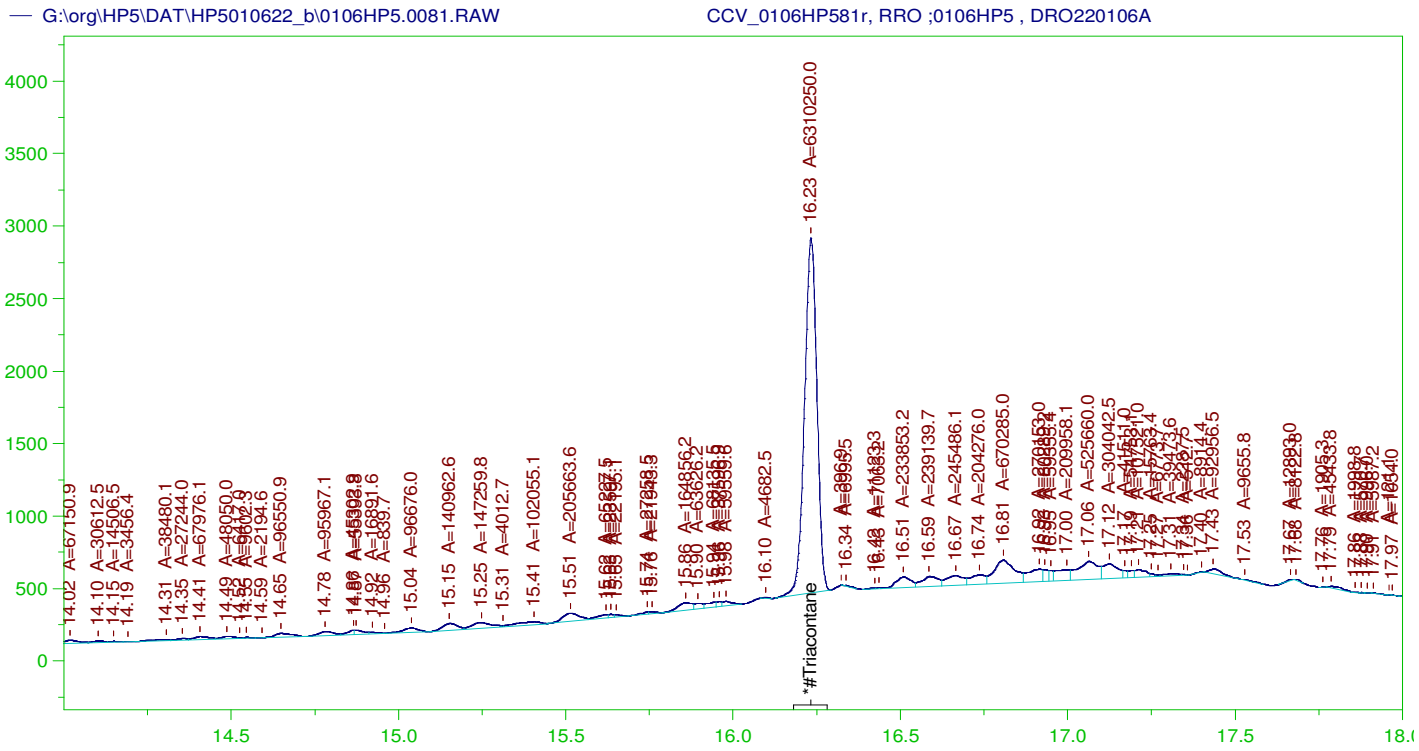
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0081.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.233	200.	374.266	187.13	75-125

AMN 01/31/2022

G:\org\HP5\dat\HP5010622_b\Review\081_CCV_0106HP581r_DC_ORO-AN-L%.xls



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP581r, RRO ;0106HP5 , DRO220106A
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0081.RAW
Date & Time Acquired: 1/8/2022 6:01:44 PM
Method File: G:\Org\HP5\Methods\DS_ORO-AN-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AN.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: 12.51 to 30.05

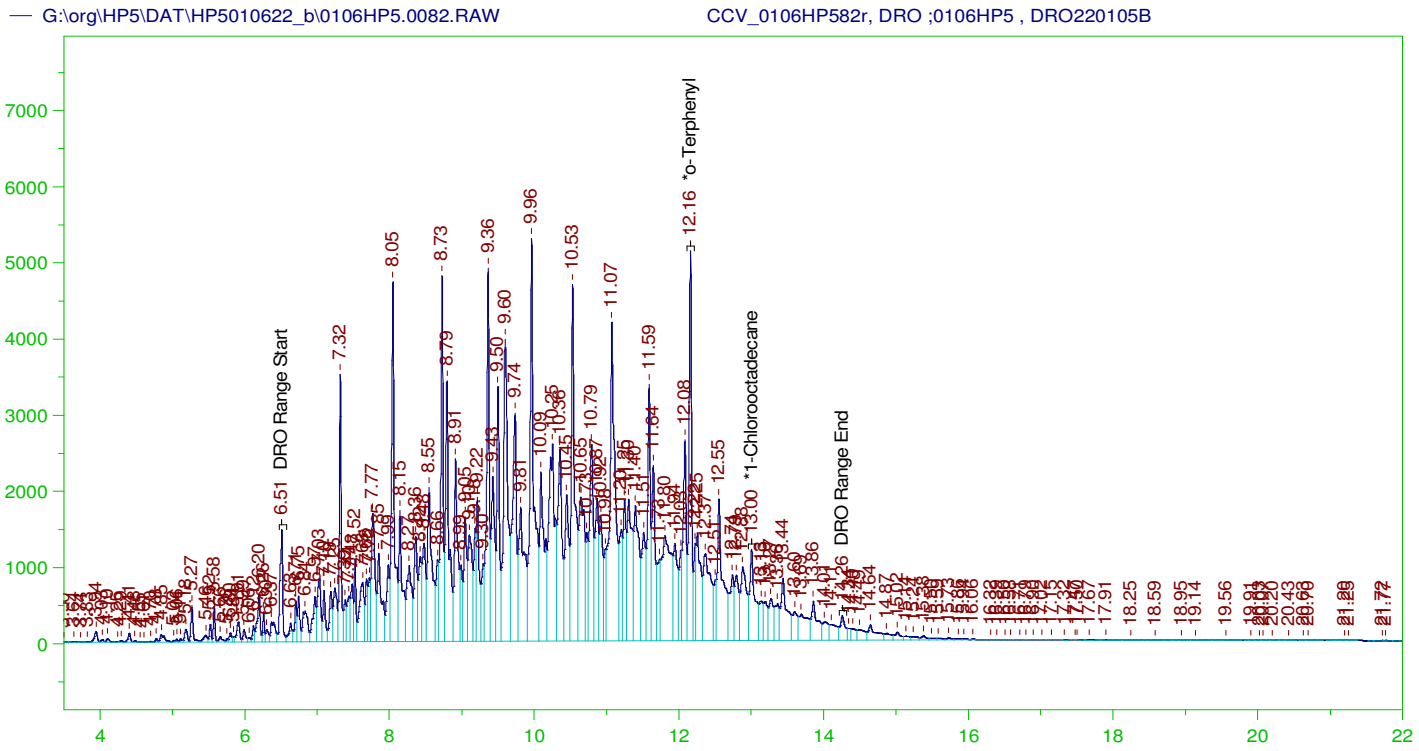
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.233	500.	218.12	43.62	-

RRO Area:6104935 RRO AMOUNT: 213.89

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0081.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.233	200.	218.12	109.06	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP582r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0082.RAW
Date & Time Acquired: 1/8/2022 6:45:09 PM
Method File: G:\Org\HP5\Methods\DC_8015-24-IN-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

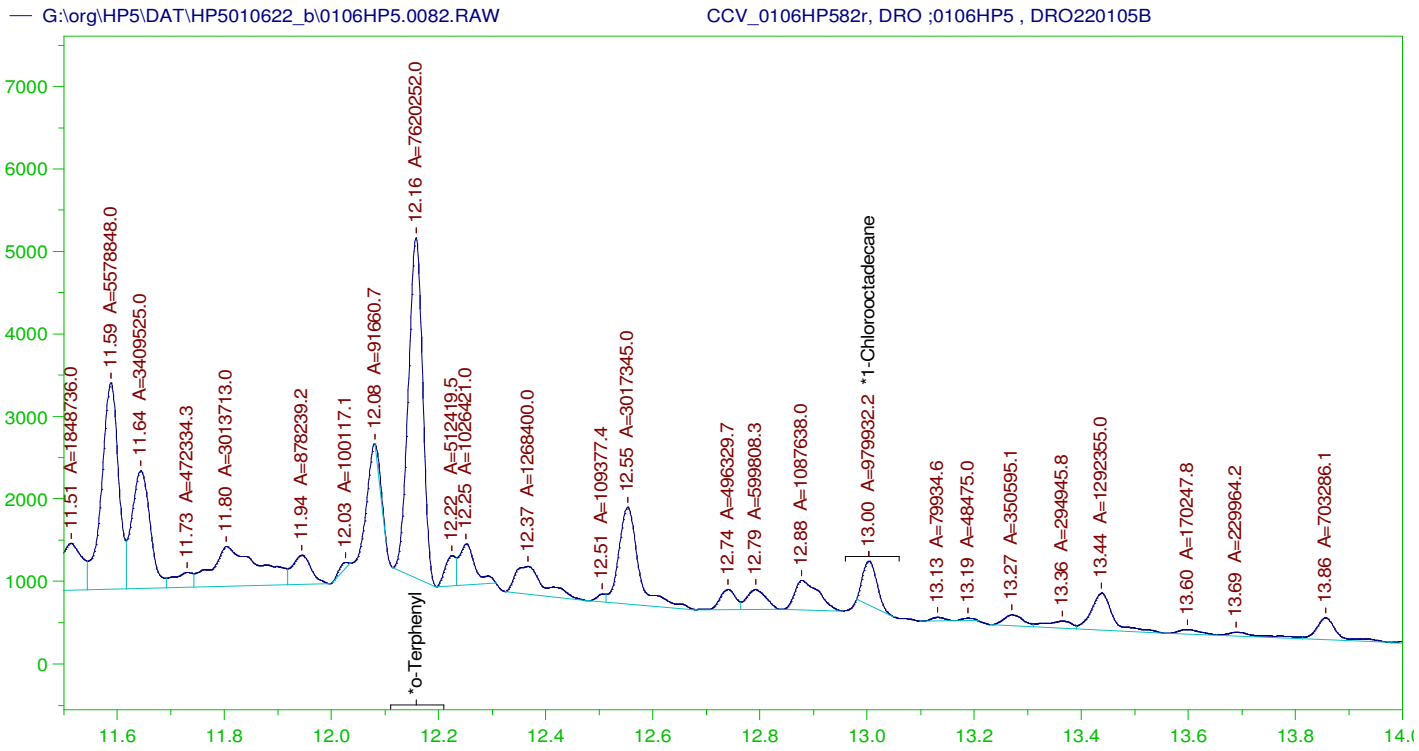
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.158	200.	354.484	177.24	-
*1-Chlorooctadecane	13.004	200.	171.716	85.86	-

DRO Area:5.079706E+08 DRO Amount: 16201.56
TEH Area:5.265075E+08 TEH Amount: 16792.79

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0082.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	16792.79	111.95	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.158	200.	354.484	177.24	85-115
*1-Chlorooctadecane	13.004	200.	171.716	85.86	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: CCV_0106HP582r, DRO ;0106HP5 , DRO220105B
Raw File: G:\org\HP5\DAT\HP5010622_b\0106HP5.0082.RAW
Date & Time Acquired: 1/8/2022 6:45:09 PM
Method File: G:\Org\HP5\Methods\DS_8015-24-IN-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IN-24.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
Rt range for Diesel Range Organics: 6.48 to 14.32

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.158	200.	214.599	107.3	-
*1-Chlorooctadecane	13.004	200.	27.597	13.8	-

DRO Area:2.811864E+08 DRO Amount: 8968.351
TEH Area:2.923837E+08 TEH Amount: 9325.486

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5010622_b\0106HP5.0082.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	9325.49	62.17	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.158	200.	214.599	107.3	85-115
*1-Chlorooctadecane	13.004	200.	27.597	13.8	85-115

Write Sequence	Insert Entries(Have the first cell for entries selected							
Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.01r	DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.02r	DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.03r	MARKER_0106HP503r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.04r	CCV_0106HP504r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.05r	CCV_0106HP505r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.06r	DCM-Baseline Check-V06	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.07r	LCS-162703 ;0106HP5 ,	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1000	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.08r	LCSD-162703 ;0106HP5 ,	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1000	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.09r	MB-162703 ;0106HP5 ,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.10r	B22010096-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.11r	B22010120-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-010611-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010611-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.12r	B22010096-001DMS ;0106HP5 ,	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1030	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.13r	DCM-Baseline Check-V13	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.14r	B22010143-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IN-L%.met G:\Org\HP5\Methods\D3_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.15r	B22010148-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-010615-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010615-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.16r	B22010212-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.17r	MARKER_0106HP517r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.18r	CCV_0106HP518r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.19r	CCV_0106HP519r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.20r	DCM-Baseline Check-V20	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.21r	B22010213-002B ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-010621-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010621-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.

G:\org\HP5\DAT\HP5010622_b\0106HP5.22r	B22010213-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-010621-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010621-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.23r	B22010213-003D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-010621-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010621-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.24r	DCM-Baseline Check-V24	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.25r	B22010141-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.26r	B22010214-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.27r	B22010219-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-IN-L%.met G:\Org\HP5\Methods\D3_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.28r	B22010211-001D ;0106HP5 , $HC-8015-DRO-W, ,(1,10)	G:\Org\HP5\Methods\D3_8015-010628-IN-L%.met G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1030	10	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline with peak width and scale adjusted. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.29r	DCM-Baseline Check-V29	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.30r	B22010134-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.31r	B22010142-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	970	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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.32r	B22010145-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-010632-IN-L%.met G:\Org\HP5\Methods\D3_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.33r	MARKER_0106HP533r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.34r	CCV_0106HP534r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.35r	CCV_0106HP535r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.36r	DCM-Baseline Check-V36	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.37r	B22010209-001D ;0106HP5 , $HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-010637-IN-L%.met G:\Org\HP5\Methods\D3_OROS-010637-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.38r	B22010211-001D ;0106HP5 , $HC-8015-DRO-W, Oil range	G:\Org\HP5\Methods\D3_OROS-010638-AN-L%.MET	1030	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline with peak width and scale adjusted.
G:\org\HP5\DAT\HP5010622_b\0106HP5.39r	LCS-162703-RRO ;0106HP5 , GC vial cap was loose appear sample r	G:\Org\HP5\Methods\D3_ORO-AN-L0.MET	1000	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.40r	LCS-162703-RRO ;0106HP5 , RR	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1000	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.41r	LCSD-162703-RRO ;0106HP5 ,	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1000	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.

G:\org\HP5\DAT\HP5010622_b\0106HP5.42r	B22010120-001DMS-RRO ;0106HP5 ,	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1030	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.43r	MARKER, 0106HP543r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.44r	CCV_0106HP544r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.45r	CCV_0106HP545r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.

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Write Sequence / Data File	Insert Entries(Have the first cell for entries selected) / Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.46r	DCM-Baseline Check-V46	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.47r	DCM-Baseline Check-V47	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.48r	MARKER_0106HP548r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106a.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.49r	CCV_0106HP549r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.50r	CCV_0106HP550r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.51r	DCM-Baseline Check-V51	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.52r	LCS-162703 ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1000	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.53r	LCSD-162703 ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1000	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.54r	MB-162703 ;0106HP5 , SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.55r	B22010096-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.56r	B22010120-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-010656-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010656-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with a Set Baseline Now at 17.30 minutes and Assigned Set Baseline All Valley on at 18.96 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.57r	B22010096-001DMS ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1030	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.58r	DCM-Baseline Check-V58	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.59r	B22010143-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.60r	B22010148-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.61r	B22010213-002B ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-010661-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010661-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with Set Baseline Now placed at 23.79 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.62r	B22010213-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-010662-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010662-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with Set Baseline Now placed at 25.91 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.63r	B22010213-003D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline with Set Baseline Now placed at 23.79 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.64r	MARKER_0106HP564r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106a.met	1	1	1	1	0	No Integrations

G:\org\HP5\DAT\HP5010622_b\0106HP5.65r	CCV_0106HP565r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.66r	CCV_0106HP566r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.67r	DCM-Baseline Check-V67	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0 No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.68r	B22010214-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.69r	B22010134-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.70r	B22010219-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.71r	DCM-Baseline Check-V71	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0 No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.72r	B22010145-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.73r	B22010209-001D ;0106HP5 , $HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-IN-L%.met G:\Org\HP5\Methods\DR_OROS-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-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 basline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.74r	B22010211-001D ;0106HP5 , $HC-8015-DRO-W, SGT,,(1,5)	G:\Org\HP5\Methods\DR_8015-010674-IN-L%.met G:\Org\HP5\Methods\DR_OROS-010674-AN-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-IN-L#.met	1030	5	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 basline with Set Baseline Now placed at 23.46 minutes and Y-axis scale adjusted. Surrogates are integrated using a valley to valley integration using Set Basline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.75r	LCS-162703-RRO ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1000	1	1	1	0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.76r	DCM-Baseline Check-V76	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0 No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.77r	LCSD-162703-RRO ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1000	1	1	1	0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.78r	DCM-Baseline Check-V78	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0 No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.79r	B22010120-001DMS-RRO ;0106HP5 , SGT	G:\Org\HP5\Methods\D3_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1030	1	1	1	0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.80r	MARKER_0106HP580r, DRO ;0106HP5 , DRO211220B	g:\org\HP5\Methods\\CSC220106a.met	1	1	1	1	0 No Integrations
G:\org\HP5\DAT\HP5010622_b\0106HP5.81r	CCV_0106HP581r, RRO ;0106HP5 , DRO220106A	G:\Org\HP5\Methods\DC_ORO-AN-L%.MET G:\Org\HP5\Methods\DS_ORO-AN-L%.MET	1	1	1	1	0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the basline. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 16.08 minutes slightly after the surrogate peak at 16.32 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5010622_b\0106HP5.82r	CCV_0106HP582r, DRO ;0106HP5 , DRO220105B	G:\Org\HP5\Methods\DC_8015-24-IN-L%.met G:\Org\HP5\Methods\DS_8015-24-IN-L#.met	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the basline. Assigned Set Baseline All Valley on at 16.83 minutes. Surrogates are integrated using a valley to valley integration using Set Basline Now placed slight before at 12.08 minutes and slightly after the surrogate peak at 12.3 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.

Ann Nebel

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Ann Nebel
Date: 2022.01.26 14:46:12 -07:00

Energy Laboratories Inc

Spike LOG

Standard ID:	DRO211101A		
Standard Name	OTP-4000 ug/mL DCM	Type:	Secondary
Date Prepared	11/1/2021	BY:	Ann Nebel
Date Expires:	9/30/2024		
Department	dropr	Status:	Open
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	Used to Prep DRO-8015 ICAL and CCV Solutions		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC328	14408	25	mL	8/19/

Final Volume: 25 mL

Stock Source		Base Units	Amount Added
DRO200430B	O-Terphenyl	ug/mL	0.1012 g

Analytes		CAS	Conc:	ug/mL
A	O-Terphenyl	84-15-1		4000

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO200430B		
Standard Name	O-Terphenyl	Type:	Neat
Date Prepared	4/30/2020	BY:	Ann Nebel
Date Expires:	9/30/2024		
Department	dropr	Status:	New
Vendor:	Chemservice		
Lot Number:	9972100		
Balance ID:			
Comments:	ID#: 6271		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	12650	500	mg	9/30/

Final Volume: mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**
A O-Terphenyl	84-15-1	1

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER	N-12693-500MG
LOT NUMBER	9972100
DATE CERTIFIED	09/23/19
EXPIRATION DATE	09/30/24
CAS NUMBER	84-15-1
MOLECULAR FORMULA	C18H14
MOLECULAR WEIGHT	230.32
STORAGE	Store in a cool dry place.
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650
Opened:
o-Terphenyl
Expires: 9/30/2024
Rec'd: 4/30/2020
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

PJLA Reference Material Producer
PJLA Testing

COA Form
Revision 3 (3/2015)

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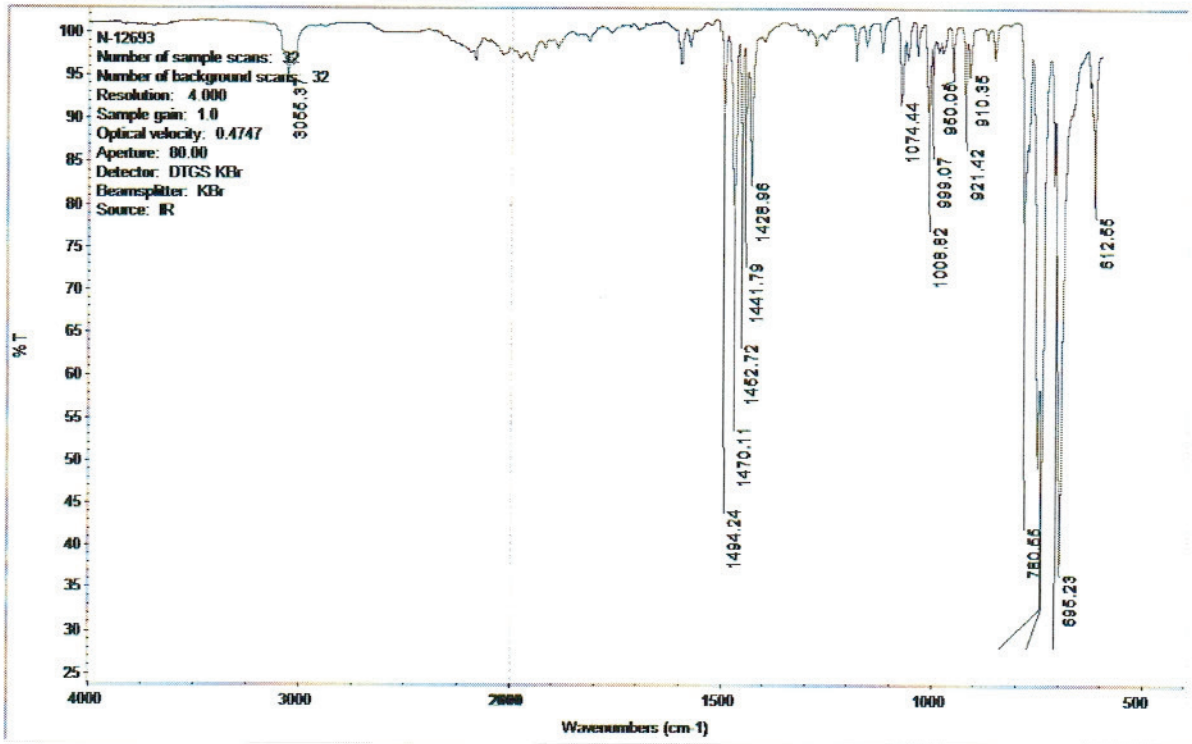
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24



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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 Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth:SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

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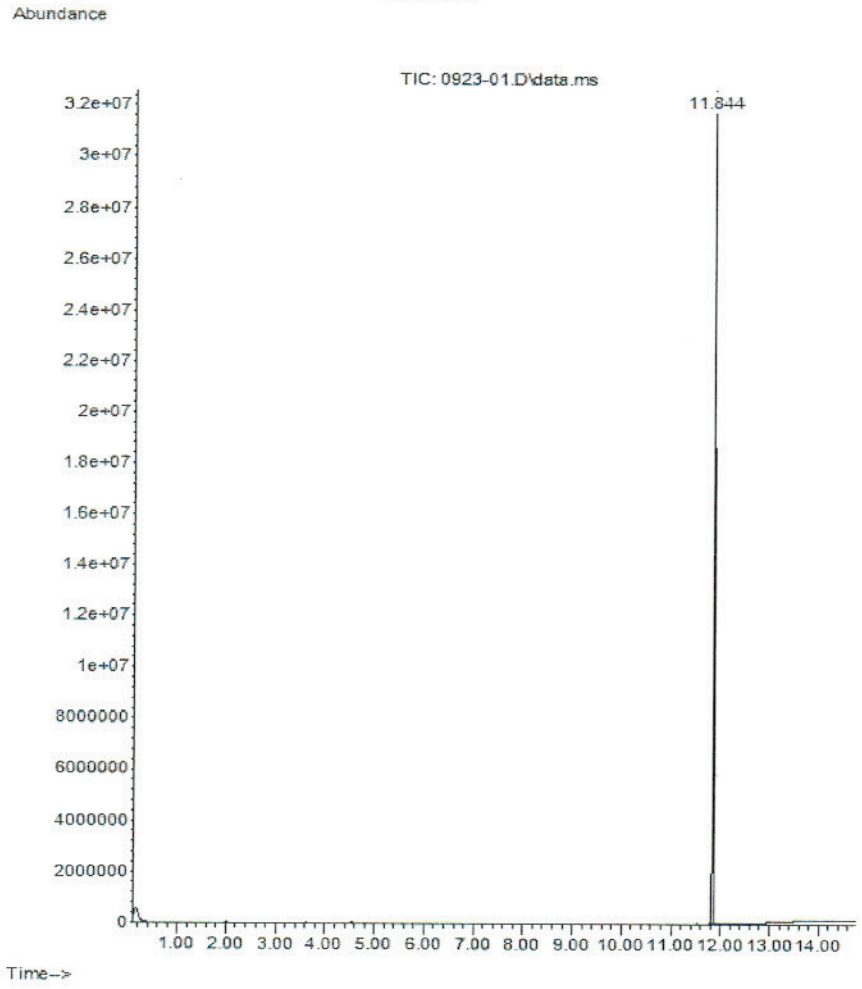
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24



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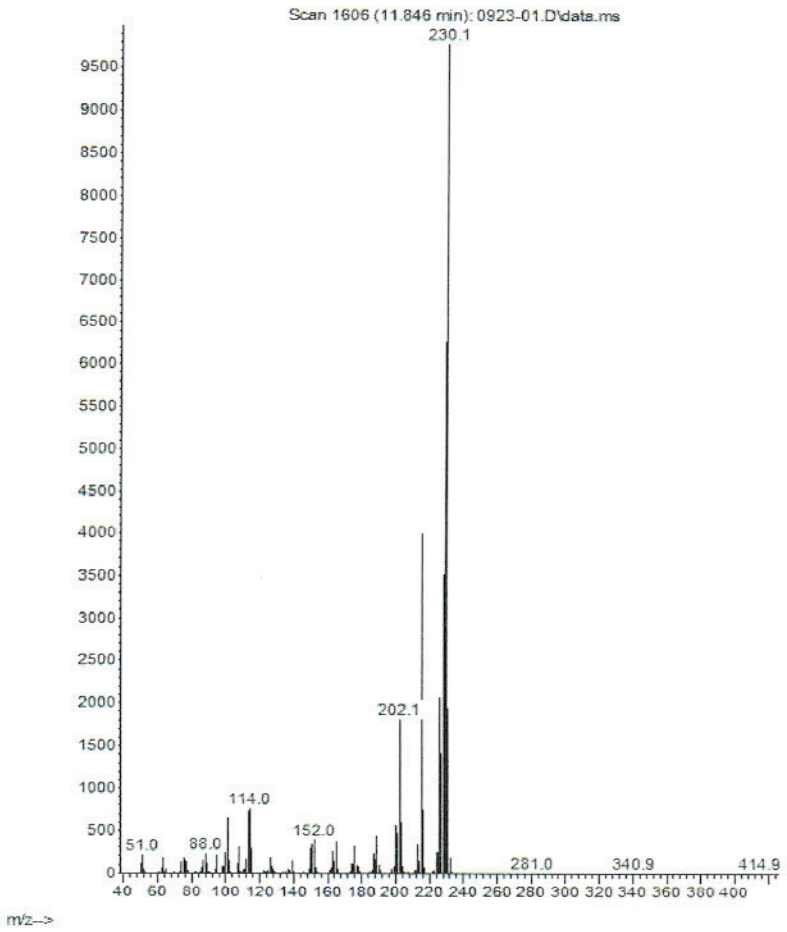
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24



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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

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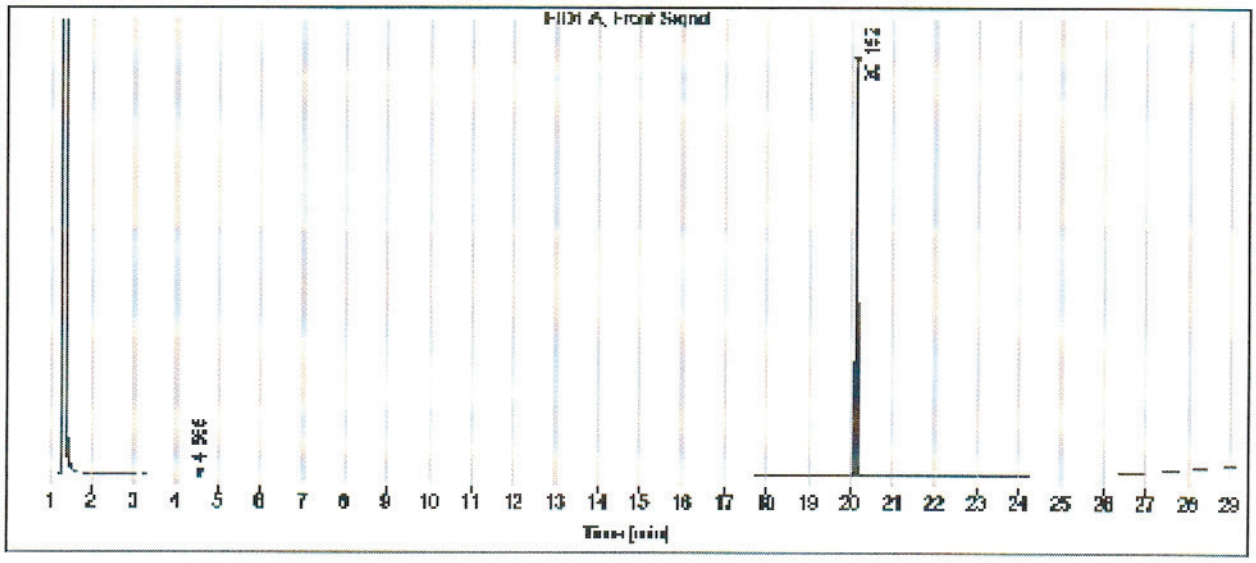
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

Gas

CERTIFICATE OF ANALYSIS

Data file:	C:\CHEM3\		
Sample name:	N-12693		
Instrument:	GC 2	**Sample type:**	Sample
Injection date:	9/23/2019 9:56:34 AM	**Location:**	Vial 141
Acq. method:	SCREEN.M	**Injection volume:**	1.0uL
Column name:	HP-5		



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		

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**
Analytes	**CAS**	Conc: **ug/mL**
Diesel Fuel #2		0

Certificate of Analysis

Diesel Fuel No. 2

Certified Reference Material

Description

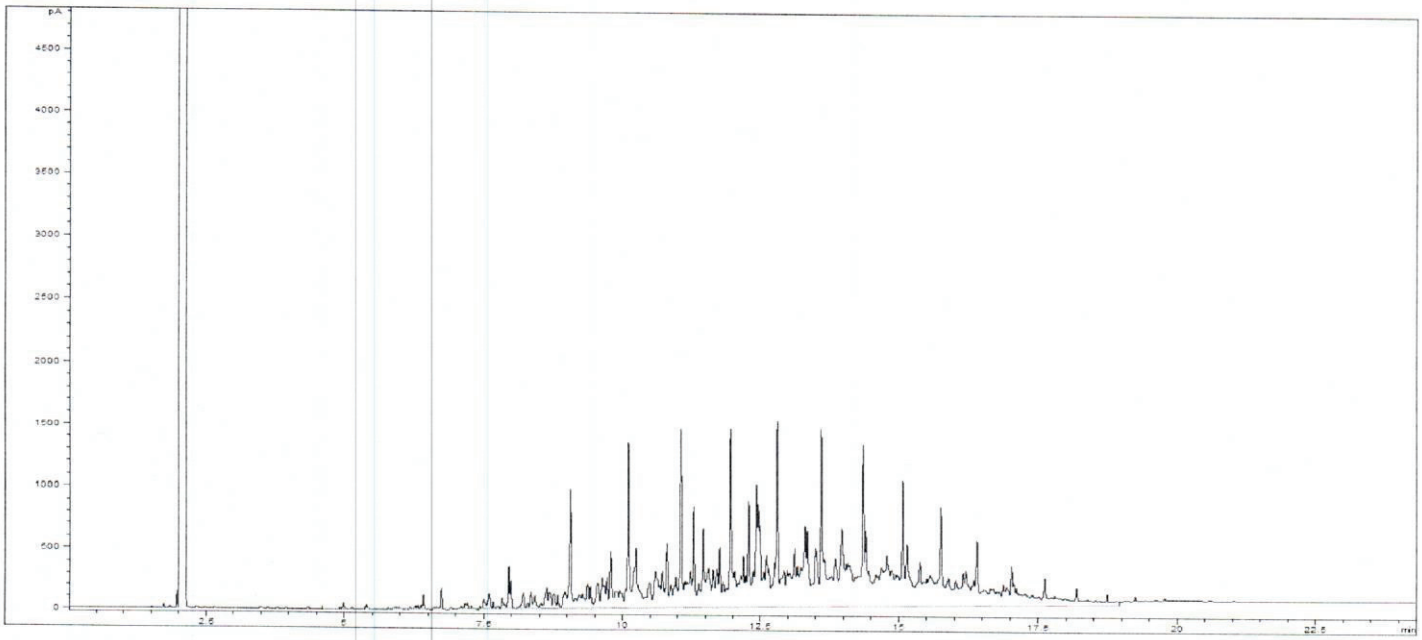
Product ID UST148
Lot **LRAC6316**
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

ID #: 14376
Opened:
Diesel Fuel No. 2
Expires: 4/30/2023
Rec'd: 10/12/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Certified Values

Analyte	*Certified Value* [1,4]	*Units*	*Raw Material Purity,%*	*Raw Material Lot*	*CAS*
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

Informational Values



Additional Information:

Analytical Method Parameters:
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)
Carrier Gas: H2, Flow: 4.0 mL/min
Inlet Temperature: 250 °C, Injection Volume: 1.0 µL
Injection Mode: Split, Split Ratio: 10: 1
Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)
Detector: FID
Detector Temperature: 300 °C

ANAB ACCREDITED 5017/2014 REFERENCE MATERIAL PRODUCER

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:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

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 preformed 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

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO180918C		
Standard Name	50,000 ug/mL Oil Std For AK103 RRO-In DC	Type:	Primary
Date Prepared	9/18/2018	BY:	Ann Nebel
Date Expires:	8/31/2025		
Department	dropr	Status:	Open
Vendor:	Restek		
Lot Number:	A0140080		
Balance ID:	Sartorius 4 place balance		

Comments:

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Residual Range Cailbration Standard	10787	1	mL	8/31/

Final Volume: 1 mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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)	50,113.0 µg/mL	+/- 293.4226	µg/mL	Gravimetric
	CAS # 64742-65-0.F (Lot A0126386)		+/- 1,492.4284	µg/mL	Unstressed
	Purity ----%		+/- 1,591.6738	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

ID #: 10787
Opened:
Residual Range Calibration Standard
Expires: 8/31/2025
Rec'd: 9/18/2018
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

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

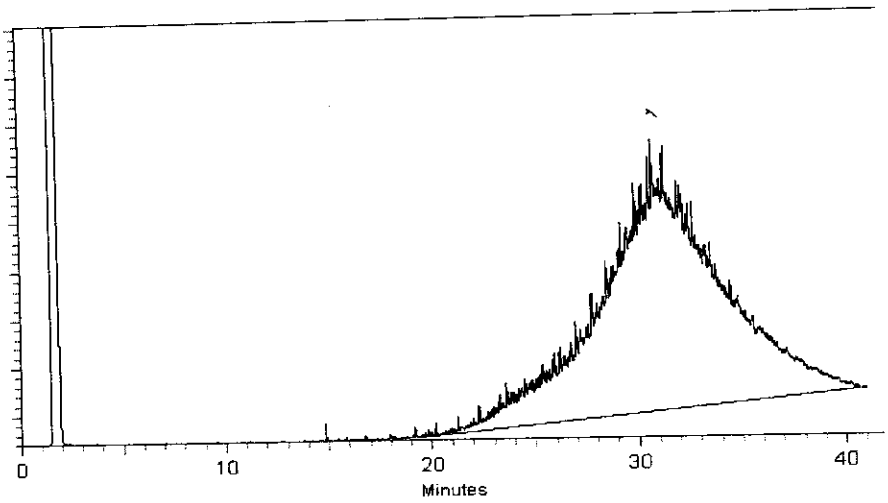
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 28-Jul-2018 **Balance:** B345965662

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	Type:	Secondary
Date Prepared	10/6/2021	BY:	Jillian L Bostwick
Date Expires:	4/6/2026		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	Triacontane SURR 2000 ug/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source		**Base Units**	**Amount Added**
DRO210406A	Triacontane-d62 Surr For AK103 RRO	ug/mL	0.1001 g

Analytes		**CAS**	Conc:	**ug/mL**
A	Triacontane-d62			2000

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO210406A		
Standard Name	Triacontane-d62 Surr For AK103 RRO	Type:	Neat
Date Prepared	4/6/2021	BY:	Ann Nebel
Date Expires:	4/6/2026		
Department	dropr	Status:	New
Vendor:	Sigma-Aldrich		
Lot Number:	MBBC4347		
Balance ID:			
Comments:	Alaska surr [for AK103 RRO]		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Triacontane-d62-98 atom % D	13736		mL	4/6/2

Final Volume: mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**
A Triacontane-d62		1

Page: *1 of 1*

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sigma-aldrich.com

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

$CD_3(CD_2)_{28}CD_3$

Product Number:	**451789**
Batch Number:	**MBBC4347**
Brand:	ALDRICH
CAS Number:	93952-07-9
MDL Number:	MFCD00209794
Formula:	C30D62
Formula Weight:	485.20 g/mol
Quality Release Date:	27 APR 2018

ID #: 13736
Opened:
Triacontane-d62-98 atom % D
Expires: 4/6/2026
Rec'd: 4/6/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C

Greg Abernathy, Supervisor
Quality Control
Miamisburg, Ohio US

Version Number: 1

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO210217A		
Standard Name	20,000 ug/mL Oil Std For AK103 RRO-In DC	Type:	Secondary
Date Prepared	2/17/2021	BY:	Ann Nebel
Date Expires:	8/23/2021		
Department	dropr	Status:	Expired
Vendor:			
Lot Number:			
Balance ID:	Sartorius 4 place balance		

Comments:

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EA342	13510	25	mL	11/17

Final Volume: 25 mL

Stock Source		Base Units	Amount Added
DRO160823C	30W Motor Oil-Valvoline	ug/mL	0.2501 g
DRO160823D	40W Motor Oil-Valvoline	ug/mL	0.2527 g

Analytes		CAS	Conc:	ug/mL
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	Type:	Primary
Date Prepared	8/23/2016	BY:	Todd C Cooper
Date Expires:	8/23/2021		
Department	dropr	Status:	Expired
Vendor:			
Lot Number:			
Balance ID:			

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**
Analytes	**CAS**	Conc: **ug/mL**
A 30W-Motor oil		1

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO160823D		
Standard Name	40W Motor Oil-Valvoline	Type:	Primary
Date Prepared	8/23/2016	BY:	Todd C Cooper
Date Expires:	8/23/2021		
Department	dropr	Status:	Expired
Vendor:			
Lot Number:			
Balance ID:			

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**
Analytes	**CAS**	Conc: **ug/mL**
A 40W-Motor oil		1

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO220105B		
Standard Name	8015 CCV-15,000ug/mL + 200 OTP	Type:	Secondary
Date Prepared	1/5/2022	BY:	Ann Nebel
Date Expires:	4/30/2023		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:			
Comments:	8015DRO CCV MIX-15,000ug/mL +200 OTP #2 Diesel		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC832	14647	2.6	mL	10/28

Final Volume: 4 mL

Stock Source		Base Units	Amount Added
DRO211101A	OTP-4000 ug/mL DCM	ug/mL	0.2 mL
DRO211214C	Diesel Fuel #2 50,000 ug/mL in DCM	ug/mL	1.2 mL

	Analytes	CAS	Conc: ug/mL
A	#2 Diesel		15000
	Diesel Fuel #2		0
A	O-Terphenyl	84-15-1	200

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO211214C		
Standard Name	Diesel Fuel #2 50,000 ug/mL in DCM	Type:	Primary
Date Prepared	12/14/2021	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	14623	1	mL	4/30/

Final Volume: mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**
Diesel Fuel #2		0

Page: *1 of 1*

Certificate of Analysis

Diesel Fuel No. 2

Certified Reference Material

Description

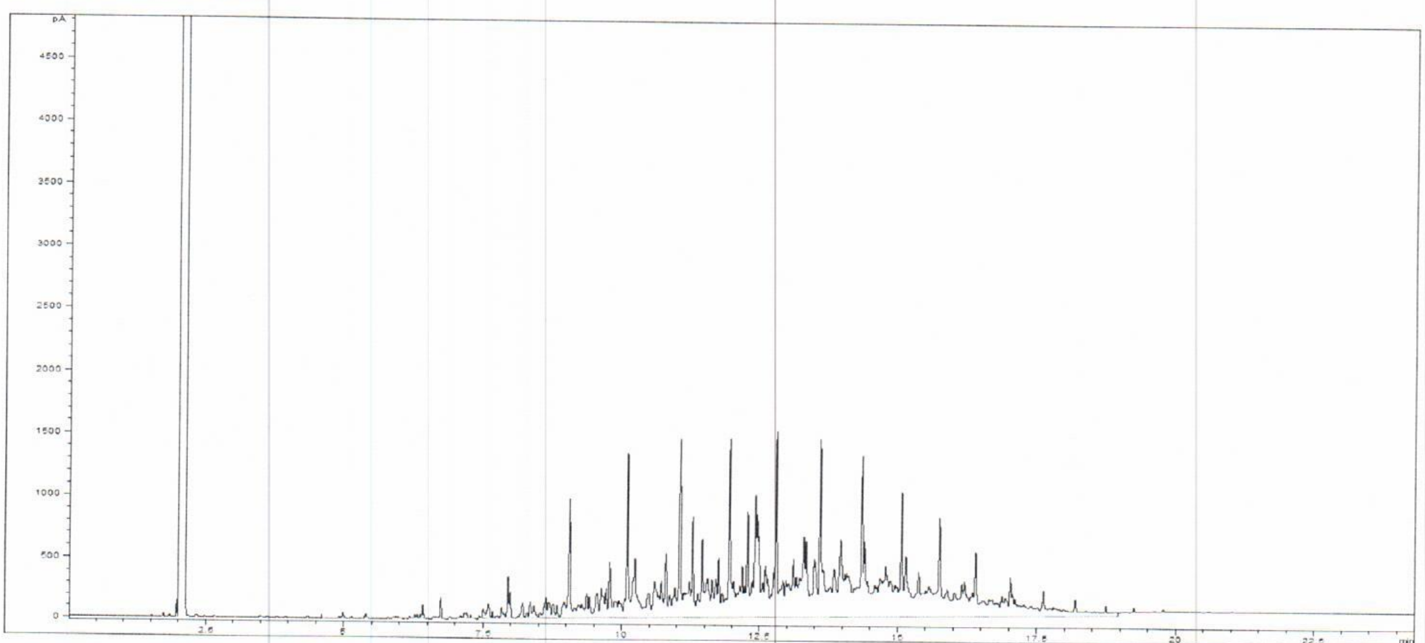
Product ID	UST148
Lot	**LRAC6316**
Expiration Date	April 2023
Manufacturing Date	April 2020
Storage Conditions	Room Temperature
Solvent/Matrix	DICHLOROMETHANE

ID #: 14623
Opened:____________________
Diesel Fuel No. 2
Expires: 4/30/2023
Rec'd: 12/14/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Certified Values

Analyte	*Certified Value* [1,4]	*Units*	*Raw Material Purity,%*	*Raw Material Lot*	*CAS*
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

Informational Values



Additional Information:

Analytical Method Parameters:
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)
Carrier Gas: H2, Flow: 4.0 mL/min
Inlet Temperature: 250 °C, Injection Volume: 1.0 µL
Injection Mode: Split, Split Ratio: 10: 1
Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)
Detector: FID
Detector Temperature: 300 °C

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

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:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

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 preformed 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

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Energy Laboratories Inc

Spike LOG

Standard ID:	DRO211101A		
Standard Name	OTP-4000 ug/mL DCM	Type:	Secondary
Date Prepared	11/1/2021	BY:	Ann Nebel
Date Expires:	9/30/2024		
Department	dropr	Status:	Open
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	Used to Prep DRO-8015 ICAL and CCV Solutions		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC328	14408	25	mL	8/19/

Final Volume: 25 mL

Stock Source		Base Units	Amount Added
DRO200430B	O-Terphenyl	ug/mL	0.1012 g

Analytes		CAS	Conc:	ug/mL
A	O-Terphenyl	84-15-1		4000

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO200430B		
Standard Name	O-Terphenyl	Type:	Neat
Date Prepared	4/30/2020	BY:	Ann Nebel
Date Expires:	9/30/2024		
Department	dropr	Status:	New
Vendor:	Chemservice		
Lot Number:	9972100		
Balance ID:			
Comments:	ID#: 6271		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	12650	500	mg	9/30/

Final Volume: mL

Stock Source **Base Units** **Amount Added**

Analytes		**CAS**	Conc:	**ug/mL**
A	O-Terphenyl	84-15-1		1

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER	N-12693-500MG
LOT NUMBER	9972100
DATE CERTIFIED	09/23/19
EXPIRATION DATE	09/30/24
CAS NUMBER	84-15-1
MOLECULAR FORMULA	C18H14
MOLECULAR WEIGHT	230.32
STORAGE	Store in a cool dry place.
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650
Opened:
o-Terphenyl
Expires: 9/30/2024
Rec'd: 4/30/2020
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

PJLA Reference Material Producer

PJLA Testing

COA Form
Revision 3 (3/2015)

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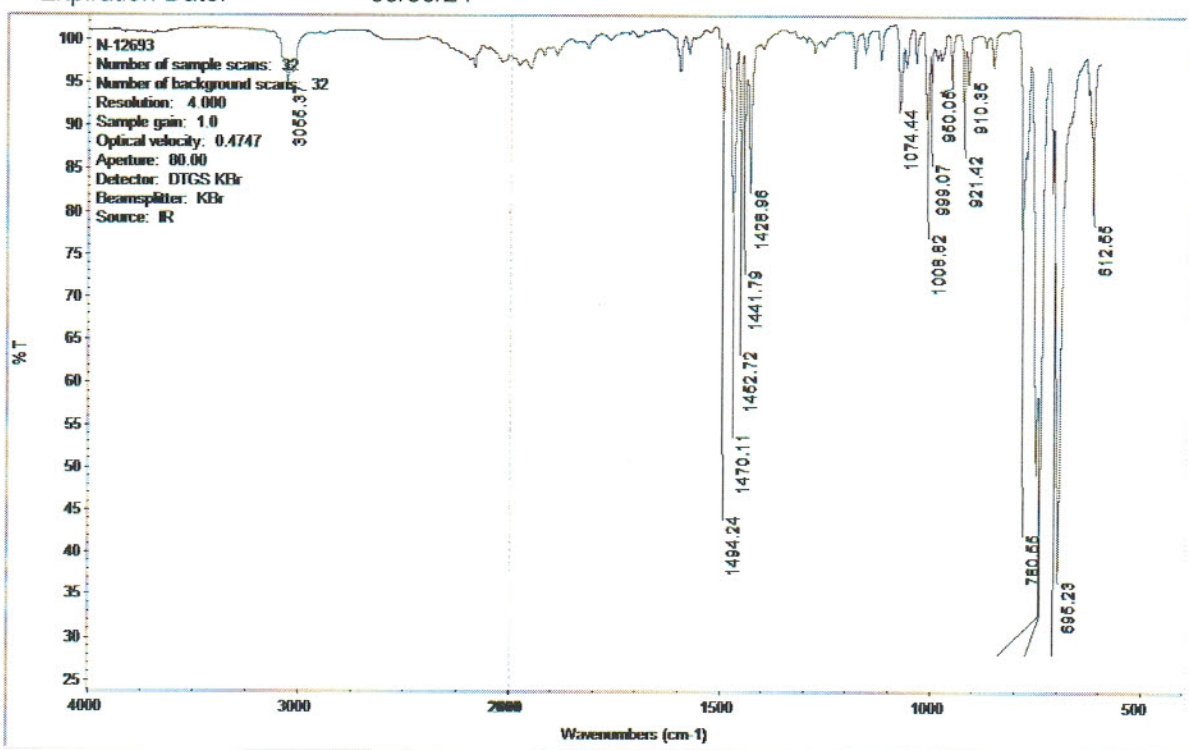
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24



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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth:SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

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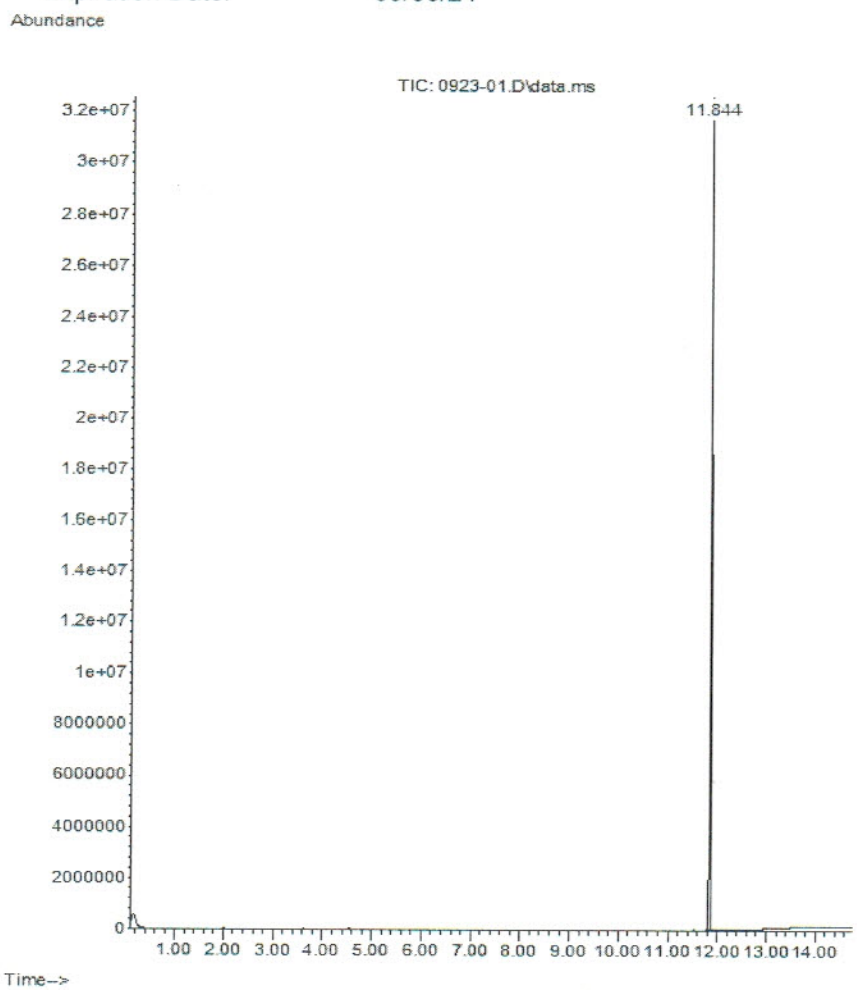
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24



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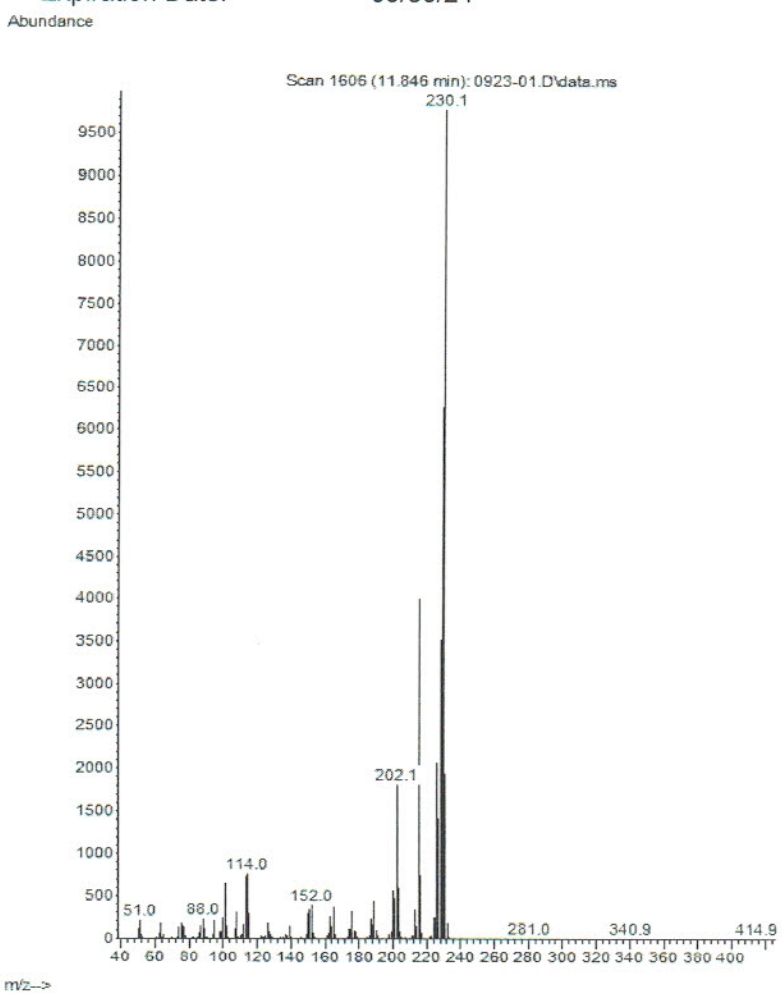
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24



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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

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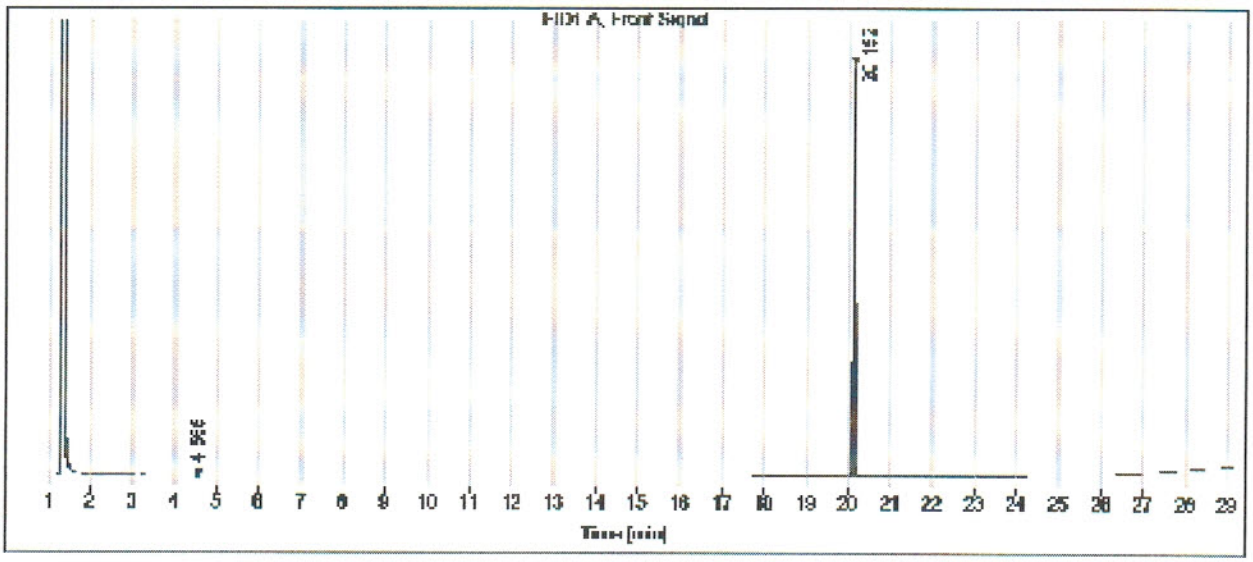
Gas

CERTIFICATE OF ANALYSIS

Data file:	C:\CHEM3\		
Sample name:	N-12693		
Instrument:	GC 2	**Sample type:**	Sample
Injection date:	9/23/2019 9:56:34 AM	**Location:**	Vial 141
Acq. method:	SCREEN.M	**Injection volume:**	1.0uL
Column name:	HP-5		



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		

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO220106A		
Standard Name	5,000 ug/mL RRO CCV 200 ug/mL Triaconta	Type:	Secondary
Date Prepared	1/6/2022	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 EC832	14647	2.8	mL	10/28

Final Volume: 4 mL

Stock Source		Base Units	Amount Added
DRO210401B	50,000 ug/mL Oil Std For AK103 RRO-I	ug/mL	400 µL
DRO220105A	Triacontane SURR 1000 ug/mL	ug/mL	800 µL

Analytes		CAS	Conc:	ug/mL
A	30/40W Motor Oil			5000
A	Triacontane-d62			200

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO210401B		
Standard Name	50,000 ug/mL Oil Std For AK103 RRO-In DC	Type:	Primary
Date Prepared	4/1/2021	BY:	Ann Nebel
Date Expires:	1/31/2028		
Department	dropr	Status:	Open
Vendor:	Restek		
Lot Number:	A0166827		
Balance ID:	Sartorius 4 place balance		

Comments:

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Residual Range Calibration Standard (	13714	1	mL	1/31/

Final Volume: 1 mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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)	50,056.0 µg/mL	+/- 293.0889	µg/mL	Gravimetric
	CAS # 64742-65-0.F (Lot A0126386)		+/- 1,490.7309	µg/mL	Unstressed
	Purity ----%		+/- 1,589.8634	µg/mL	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)

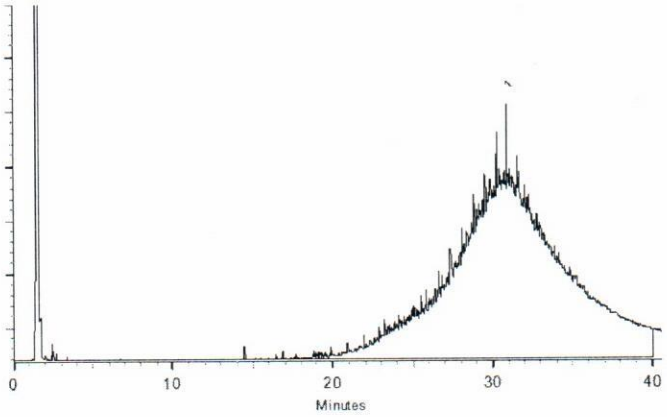
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 - Operations Technician I

Date Mixed: 02-Dec-2020 **Balance:** 1128353505

Justine 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:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO220105A		
Standard Name	Triacontane SURR 1000 ug/mL	Type:	Secondary
Date Prepared	1/5/2022	BY:	Jillian L Bostwick
Date Expires:	4/6/2026		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	2X dilution of Triacontane SURR 2000 ug/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC832	14647	5	mL	10/28

Final Volume: 10 mL

Stock Source		**Base Units**	**Amount Added**
DRO211006A	Triacontane SURR 2000 ug/mL	ug/mL	5 mL

Analytes		**CAS**	Conc:	**ug/mL**
A	Triacontane-d62			1000

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO211006A		
Standard Name	Triacontane SURR 2000 ug/mL	Type:	Secondary
Date Prepared	10/6/2021	BY:	Jillian L Bostwick
Date Expires:	4/6/2026		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	Triacontane SURR 2000 ug/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source		**Base Units**	**Amount Added**
DRO210406A	Triacontane-d62 Surr For AK103 RRO	ug/mL	0.1001 g

Analytes		**CAS**	Conc:	**ug/mL**
A	Triacontane-d62			2000

SIGMA-ALDRICH®

sigma-aldrich.com

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-d_{62} - 98 atom % D

$CD_3(CD_2)_{28}CD_3$

Product Number:	**451789**
Batch Number:	**MBBC4347**
Brand:	ALDRICH
CAS Number:	93952-07-9
MDL Number:	MFCD00209794
Formula:	C30D62
Formula Weight:	485.20 g/mol
Quality Release Date:	27 APR 2018

ID #: 13736
Opened:
Triacontane-d62-98 atom % D
Expires: 4/6/2026
Rec'd: 4/6/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C

Greg Abernathy, Supervisor
Quality Control
Miamisburg, Ohio US

Version Number: 1

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO210902A		
Standard Name	50,000 ug/mL Oil Std for RRO-In DCM	Type:	Secondary
Date Prepared	9/2/2021	BY:	Jillian L Bostwick
Date Expires:	9/1/2026		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	.625 g of 30W and 40 W each LCS for Oil range		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EB867	14196	25	mL	6/18/

Final Volume: 25 mL

Stock Source		Base Units	Amount Added
DRO210901B	40W Motor Oil-Valvoline	ug/mL	0.6261 g
DRO210901A	30W Motor Oil-Valvoline	ug/mL	0.6254 g

Analytes		CAS	Conc: ug/mL
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	Type:	Primary
Date Prepared	9/1/2021	BY:	Jillian L Bostwick
Date Expires:	9/1/2026		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:			

Comments: Used to Make 2nd Source Standards For Alaska AK103 RRO Method and Oil

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 40 Motor Oil	14231		mL	9/1/2

Final Volume: mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**
A 40W-Motor oil		1

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO210901A		
Standard Name	30W Motor Oil-Valvoline	Type:	Primary
Date Prepared	9/1/2021	BY:	Jillian L Bostwick
Date Expires:	9/1/2026		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:			

Comments: Used to make 2nd Source Standard for AK103 method.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 30 Motor Oil	14232		mL	9/1/2

Final Volume: mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**
A 30W-Motor oil		1

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO211220D		
Standard Name	Triacontane SURR 1000 ug/mL	Type:	Secondary
Date Prepared	12/20/2021	BY:	Jillian L Bostwick
Date Expires:	4/6/2026		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	2X dilution of Triacontane SURR 2000 ug/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC757	14596	5	mL	10/20

Final Volume: 10 mL

Stock Source		**Base Units**	**Amount Added**
DRO211006A	Triacontane SURR 2000 ug/mL	ug/mL	5 mL

Analytes		**CAS**	Conc:	**ug/mL**
A	Triacontane-d62			1000

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO211006A		
Standard Name	Triacontane SURR 2000 ug/mL	Type:	Secondary
Date Prepared	10/6/2021	BY:	Jillian L Bostwick
Date Expires:	4/6/2026		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	Triacontane SURR 2000 ug/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source		**Base Units**	**Amount Added**
DRO210406A	Triacontane-d62 Surr For AK103 RRO	ug/mL	0.1001 g

Analytes		**CAS**	Conc:	**ug/mL**
A	Triacontane-d62			2000

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO210406A		
Standard Name	Triacontane-d62 Surr For AK103 RRO	Type:	Neat
Date Prepared	4/6/2021	BY:	Ann Nebel
Date Expires:	4/6/2026		
Department	dropr	Status:	New
Vendor:	Sigma-Aldrich		
Lot Number:	MBBC4347		
Balance ID:			
Comments:	Alaska surr [for AK103 RRO]		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Triacontane-d62-98 atom % D	13736		mL	4/6/2

Final Volume: mL

Stock Source **Base Units** **Amount Added**

Analytes **CAS** Conc: **ug/mL**

A Triacontane-d62

Page: *1 of 1*

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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

$CD_3(CD_2)_{28}CD_3$

Product Number:	**451789**
Batch Number:	**MBBC4347**
Brand:	ALDRICH
CAS Number:	93952-07-9
MDL Number:	MFCD00209794
Formula:	C30D62
Formula Weight:	485.20 g/mol
Quality Release Date:	27 APR 2018

ID #: 13736
Opened:
Triacontane-d62-98 atom % D
Expires: 4/6/2026
Rec'd: 4/6/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C

Greg Abernathy, Supervisor
Quality Control
Miamisburg, Ohio US

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO220105A		
Standard Name	Triacontane SURR 1000 ug/mL	Type:	Secondary
Date Prepared	1/5/2022	BY:	Jillian L Bostwick
Date Expires:	4/6/2026		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	2X dilution of Triacontane SURR 2000 ug/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC832	14647	5	mL	10/28

Final Volume: 10 mL

Stock Source		**Base Units**	**Amount Added**
DRO211006A	Triacontane SURR 2000 ug/mL	ug/mL	5 mL

Analytes		**CAS**	Conc:	**ug/mL**
A	Triacontane-d62			1000

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO211006A		
Standard Name	Triacontane SURR 2000 ug/mL	Type:	Secondary
Date Prepared	10/6/2021	BY:	Jillian L Bostwick
Date Expires:	4/6/2026		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	Triacontane SURR 2000 ug/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source		**Base Units**	**Amount Added**
DRO210406A	Triacontane-d62 Surr For AK103 RRO	ug/mL	0.1001 g

Analytes		**CAS**	Conc:	**ug/mL**
A	Triacontane-d62			2000

SIGMA-ALDRICH®

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Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d62 - 98 atom % D

$CD_3(CD_2)_{28}CD_3$

Product Number:	**451789**
Batch Number:	**MBBC4347**
Brand:	ALDRICH
CAS Number:	93952-07-9
MDL Number:	MFCD00209794
Formula:	C30D62
Formula Weight:	485.20 g/mol
Quality Release Date:	27 APR 2018

ID #: 13736
Opened:
Triacontane-d62-98 atom % D
Expires: 4/6/2026
Rec'd: 4/6/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C

Greg Abernathy, Supervisor
Quality Control
Miamisburg, Ohio US

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO211213A		
Standard Name	OTP only SURR 2000 ug/mL	Type:	Secondary
Date Prepared	12/13/2021	BY:	Jillian L Bostwick
Date Expires:	9/30/2024		
Department	dropr	Status:	New
Vendor:			
Lot Number:			
Balance ID:	BAL-DRO		
Comments:	OTP SURR 2000 ug/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	100	mL	7/22/

Final Volume: 100 mL

Stock Source		Base Units	Amount Added
DRO200430B	O-Terphenyl	ug/mL	0.2015 g

Analytes		CAS	Conc:	ug/mL
A	1-Chlorooctadecane	3386-33-2		2000

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	DRO200430B		
Standard Name	O-Terphenyl	Type:	Neat
Date Prepared	4/30/2020	BY:	Ann Nebel
Date Expires:	9/30/2024		
Department	dropr	Status:	New
Vendor:	Chemservice		
Lot Number:	9972100		
Balance ID:			
Comments:	ID#: 6271		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	12650	500	mg	9/30/

Final Volume: mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**
A O-Terphenyl	84-15-1	1

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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER	N-12693-500MG
LOT NUMBER	9972100
DATE CERTIFIED	09/23/19
EXPIRATION DATE	09/30/24
CAS NUMBER	84-15-1
MOLECULAR FORMULA	C18H14
MOLECULAR WEIGHT	230.32
STORAGE	Store in a cool dry place.
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650
Opened:
o-Terphenyl
Expires: 9/30/2024
Rec'd: 4/30/2020
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

PJLA Reference Material Producer

PJLA Testing

COA Form
Revision 3 (3/2015)

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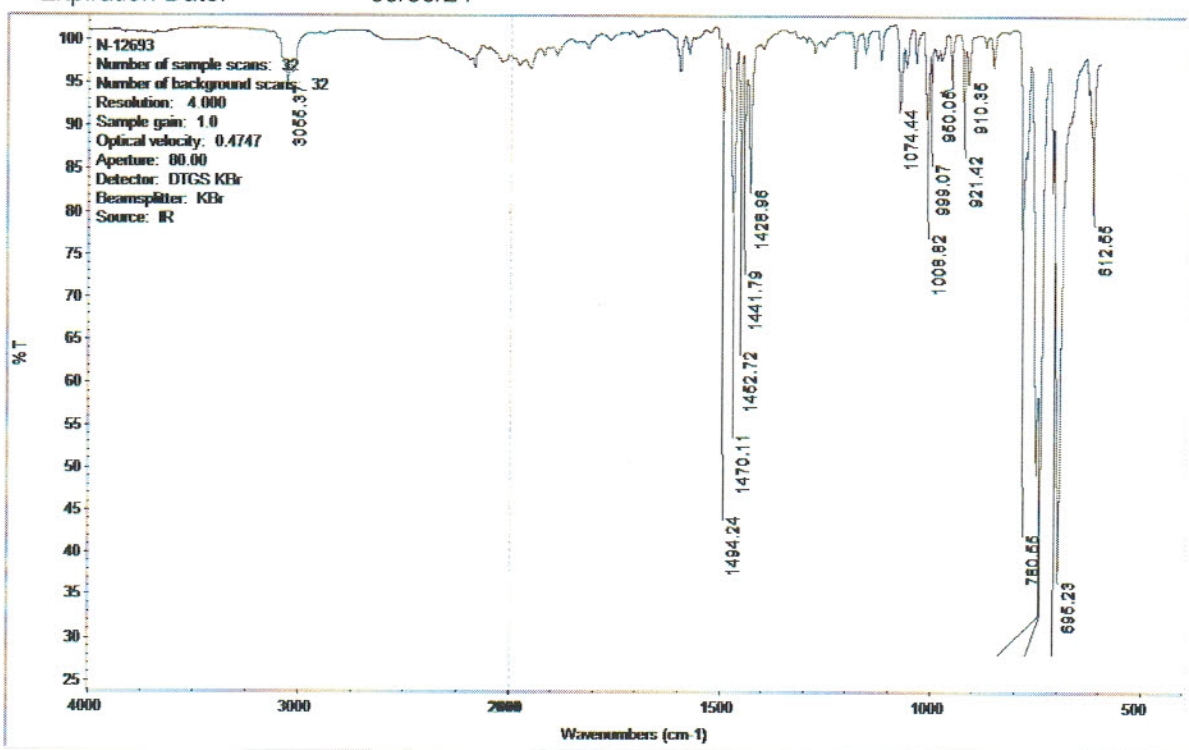
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24



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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 Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth:SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

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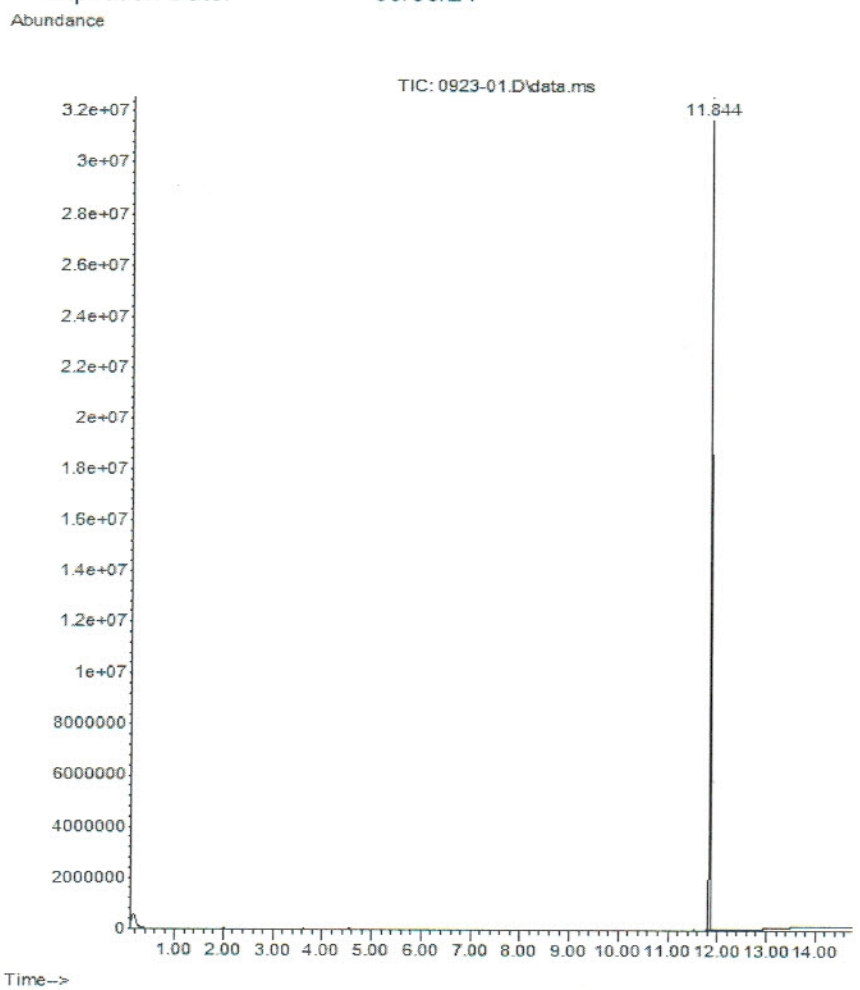
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24



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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
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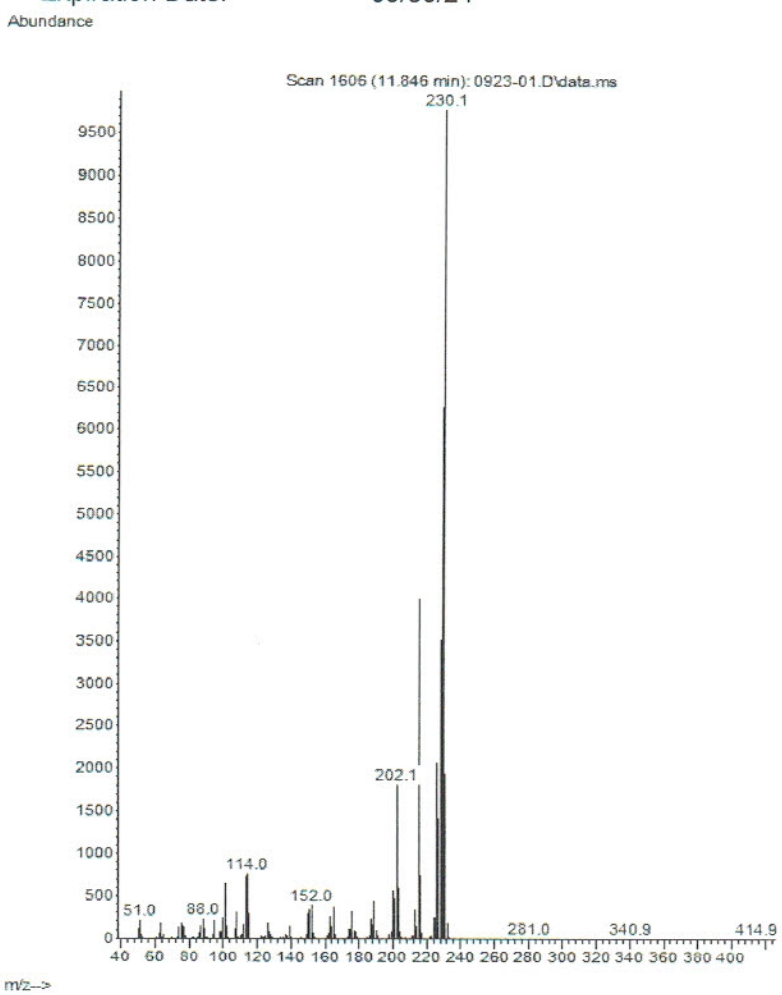

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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

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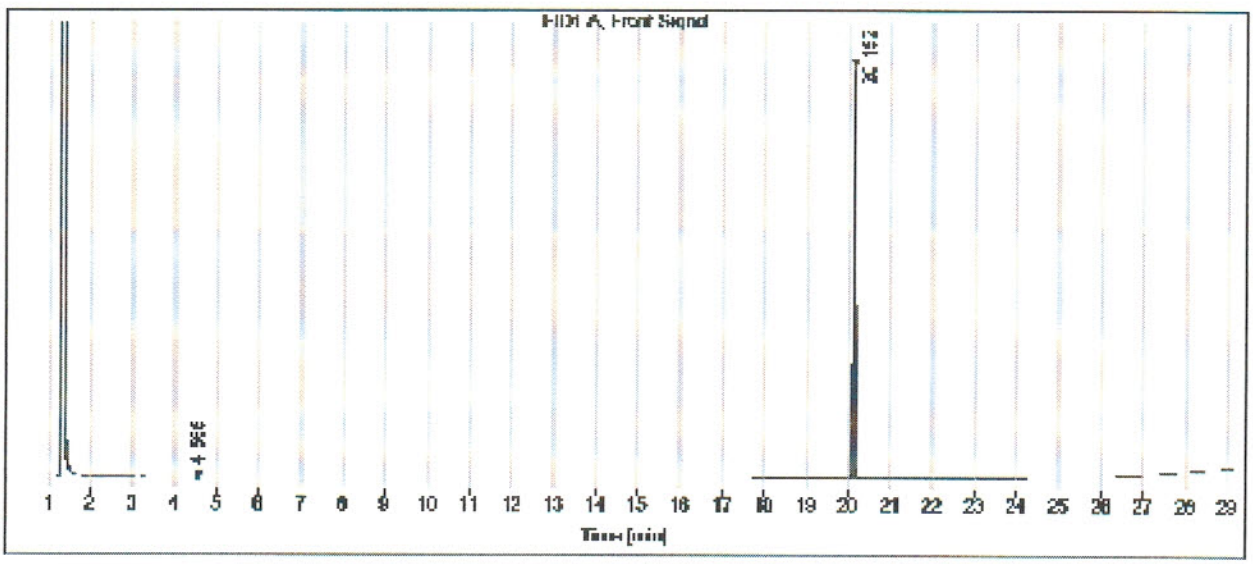
Gas

CERTIFICATE OF ANALYSIS

Data file:	C:\CHEM3\		
Sample name:	N-12693		
Instrument:	GC 2	**Sample type:**	Sample
Injection date:	9/23/2019 9:56:34 AM	**Location:**	Vial 141
Acq. method:	SCREEN.M	**Injection volume:**	1.0uL
Column name:	HP-5		



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		